

## Book

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# ECONOMIC INDICATORS FOR SOUTHEASTERN ASIA AND THE PACIFIC INPUT-OUTPUT TABLES

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DECEMBER 2018



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DECEMBER 2018



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# FOREWORD

Catalyzed by advancements in production, transportation, and information and communication technologies, as well as diminishing physical and policy barriers to trade, the global economy has been evolving rapidly in recent decades. The resulting need to understand the ever-changing dynamics of trade and production structures has increased the demand for better and more timely statistics. In this context, supply and use tables and input-output tables have received much attention as a response to the emerging need for more systematic and comprehensive approaches to data management, economic analysis, and policy research. The input-output analysis framework is designed to illustrate a system of trading activities and production-sharing arrangements at the local, regional, and global levels.

To facilitate research and to inform policy, the Asian Development Bank (ADB) produces an ongoing compilation of a multiregional input-output (MRIO) database by augmenting the World Input-Output Database with economies from across Asia and the Pacific. The MRIO database depicts input-output details for 62 economies, 43 of which are based on the 2016 release of the World Input-Output Database, with the remaining 19 compiled from supply and use tables resulting from ADB's statistical capacity-building initiatives in the Asia and Pacific region since 2008. The MRIO database aptly serves the increasing demand for structured, relevant, timely, and accurate data, especially with the onset of various economic research projects on global value chains (GVCs).

This publication is one of three that focus on particular regions: (i) *South and Central Asia*, covering Bangladesh, Bhutan, India, Kazakhstan, the Kyrgyz Republic, Maldives, Nepal, Pakistan, and Sri Lanka; (ii) *Southeastern Asia and the Pacific*, encompassing Brunei Darussalam, Cambodia, Fiji, Indonesia, the Lao People's Democratic Republic, Malaysia, the Philippines, Singapore, Thailand, and Viet Nam; and (iii) *Eastern Asia*, including the People's Republic of China; Hong Kong, China; Japan; the Republic of Korea; Mongolia; and Taipei, China. Economy-specific time series of input-output tables, aggregated into 35 industrial sectors and 5 final demand sectors, are provided for 2010 and 2017. The publications also present data visualization of statistics relevant to the analysis of cross-border production arrangements such as value-added exports, revealed comparative advantages, trade in value-added, GVC income, and GVC participation computed from the MRIO.

I would like to thank all those who contributed to the production of these three publications—the consultants; the industry experts; ADB staff; and the national implementing agencies and other government organizations in the economies participating in ADB’s statistical and analytical capacity-building initiatives—for their dedication, cooperation, and hard work. The funding for the data development and analysis activities that led to this publication was provided under RCDTA-8838: *Updating and Constructing the Supply and Use Tables for Selected Developing Member Economies*, and RETA-9244: *Key Indicators for Asia and the Pacific 2018*. We hope that this report will be a valuable resource for economic research and policy analysis.



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The successful integration of the supply and use framework into the national accounts systems in 19 participating economies in Asia and the Pacific through the regional capacity development technical assistance (RCDTA) 8838: *Updating and Constructing Supply and Use Tables for Selected Developing Member Economies*, was made possible by the strong cooperation and active participation of the respective governments and national statistical offices. Building on the successful implementation of RCDTA 8838, the Asian Development Bank (ADB) expanded the initiative on data development to compile input-output tables and multiregional input-output tables. The project was financially supported by ADB through RCDTA 8838 and RETA 9244: *Key Indicators for Asia and the Pacific 2018*.

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This set of three publications cover South and Central Asia, Eastern Asia, and Southeastern Asia and the Pacific. It was produced by the Development Economics and Indicators Division of the Economic Research and Regional Cooperation Department of ADB, under the overall coordination of Mahinthan Joseph Mariasingham; with technical assistance from Kristina Baris, John Arvin Bernabe, Donald Jay Bertulfo, Nina Ashley Dela Cruz, Paul Neilmer Feliciano, Dianne Lara Monis, Julieta Magallanes, Sarah Mae Manuel, Irene Talam, Jonarie Vergara, and Resi Olivares. Eric Suan provided overall administrative support. Paul Dent edited the publications. Joe Mark Ganaban led the typesetting process while Maria Denise Pena designed the covers. These volumes were published with the support of ADB's Department of Communications and Printing Unit.



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# ABBREVIATIONS

ERDI	Development Economics and Indicators Division
GDP	gross domestic product
GFCF	gross fixed capital formation
GVA	gross value added
GVC	global value chains
ICT	information and communication technology
IOT	input-output tables
MRIO	multiregional input-output
NBL	normalized backward linkages
NFL	normalized forward linkages
NPISH	nonprofit organizations and institutions serving households
NRCA	new revealed comparative advantage
RoW	rest of the world
SUT	supply and use tables
TiVA	trade in value added
TRCA	traditional revealed comparative advantage
WIOD	World Input-Output Database



# Technical Note

## Part 1: Overview of Production and Demand Structures

Input-output tables (IOTs) provide a detailed picture of an economy through which mutual interrelationships among the producers and consumers in that economy can be systematically quantified. IOTs have become a widely used tool for national accounting, economic planning, and policy analysis.

This section describes the basic framework of an IOT, consisting of the transaction flows across industries that both produce goods and services (outputs) and consume goods and services (inputs), as well as outlining the value-added by industry and final demand. This also includes a description of different baseline multipliers, which are central indicators of IOTs for impact analysis.

A two-region (home and foreign) IOT is used throughout the analysis, spanning 2010–2017.<sup>1</sup> All values are expressed either in millions of United States (US) dollars or as percentage shares. The data presented here are not official statistics and could differ from relevant official statistics.

### Input-Output Tables

Consider an economy with a given number ( $n$ ) of sectors. An IOT depicting transactions between industries within that economy, and with the rest of the world (RoW), is summarized in the table below.

**Table 1: Example of an Input-Output Table**

		Intermediate Uses				Final Uses						Gross Output
		Industry 1	Industry 2	...	Industry $n$	Households	NPISH	Government	GFCF	CIIs	Export	
Domestic	1	$Z_{11}$	$Z_{12}$	...	$Z_{1n}$	$f_{11}$	$f_{11}$	$f_{11}$	$f_{11}$	$f_{11}$	$e_1$	$x_1$
	2	$Z_{21}$	$Z_{22}$	...	$Z_{2n}$	$f_{21}$	$f_{21}$	$f_{21}$	$f_{21}$	$f_{21}$	$e_2$	$x_2$
	...	...	...	...	...	...	...	...	...	...	...	...
	$n$	$Z_{n1}$	$Z_{n2}$	...	$Z_{nn}$	$f_{n1}$	$f_{n2}$	$f_{n3}$	$f_{n4}$	$f_{n5}$	$e_n$	$x_n$
Imports		$Zm_1$	$Zm_2$	...	$Zm_n$	$fm_1$	$fm_2$	$fm_3$	$fm_4$	$fm_5$		
Value-Added		$v_1$	$v_2$	...	$v_n$							
Total Inputs		$x_1$	$x_2$	...	$x_n$							

CIIs = changes in inventories, GFCF = gross fixed capital formation, NPISHs = nonprofit organizations and institutions serving households.  
Source: Adapted from Miller and Blair (2009).

<sup>1</sup> The data presented in this publication are not official statistics. Production and trade data from various sources are integrated into the input-output economic analysis framework and adjusted as required to conform to specific macroeconomic concepts. As such, data and statistics presented herein could differ from relevant official statistics.

The Intermediate Uses section of Table 1 depicts consumption ( $Z_{ij}$ ) of goods and services by the  $j$  produced by industry  $i$ . Imported inputs of industry  $j$  are denoted as  $Zm_j$ . Adding intermediate consumption to value-added ( $v_j$ ) is equal to the total inputs  $x_j$ .

The Final Uses section of Table 1 depicts the consumption of households ( $f_{i1}$ ), nonprofit organizations and institutions serving households ( $f_{i2}$ ), government ( $f_{i3}$ ), gross fixed capital formation ( $f_{i4}$ ), changes in inventories ( $f_{i5}$ ), and exports ( $e_i$ ). Imported goods and services, denoted by ( $fm_j$ ), are products consumed ultimately as final products.

The sectors in the columns on the left of Table 1 are the ‘selling’ sectors, while the sectors shown across the top are the ‘buyers’. Thus, each row adds up to the gross output that is equal to its corresponding total input, demonstrating the absorption of the output of each industry, while each column shows the input sources of each industry.

In this publication, the IOTs utilize three sector aggregation schemes.

**Table 2: Sector Aggregation Used in Input–Output Tables**

Sectors at the Level Used by World Input–Output Database	ERDI Aggregation Level 1 (13 sectors)	ERDI Aggregation Level 2 (5 sectors)
Agriculture, hunting, forestry, and fishing	Primary	Primary
Mining and quarrying	Primary	Primary
Food, beverages, and tobacco	Low tech	Low tech
Textiles and textile products	Low tech	Low tech
Leather, leather products, and footwear	Low tech	Low tech
Wood and products of wood and cork	Low tech	Low tech
Pulp, paper, paper products, printing, and publishing	Low tech	Low tech
Coke, refined petroleum, and nuclear fuel	High and medium tech	High and medium tech
Chemicals and chemical products	High and medium tech	High and medium tech
Rubber and plastics	Low tech	Low tech
Other nonmetallic minerals	High and medium tech	High and medium tech
Basic metals and fabricated metal	High and medium tech	High and medium tech
Machinery, nec	High and medium tech	High and medium tech
Electrical and optical equipment	High and medium tech	High and medium tech
Transport equipment	High and medium tech	High and medium tech
Manufacturing, nec; recycling	Low tech	Low tech
Electricity, gas, and water supply	Utilities	Low tech
Construction	Construction	Low tech
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	Trade and repair services	Business services
Wholesale trade and commission trade, except of motor vehicles and motorcycles	Trade and repair services	Business services
Retail trade, except of motor vehicles and motorcycles; repair of household goods	Trade and repair services	Business services
Hotels and restaurants	Tourism	Business services
Inland transport	Transport services	Business services
Water transport	Transport services	Business services
Air transport	Transport services	Business services
Other supporting and auxiliary transport activities; activities of travel agencies	Transport services	Business services
Post and telecommunications	ICT services	Business services
Financial intermediation	Finance and insurance services	Business services
Real estate activities	Property services	Business services
Renting of machinery and equipment; other business activities	Property services	Business services
Public administration and defense; compulsory social security	Public and welfare services	Public and welfare services
Education	Public and welfare services	Public and welfare services

*continued on next page*

Table 2 *continued*

Sectors at the Level Used by World Input–Output Database	ERDI Aggregation Level 1 (13 sectors)	ERDI Aggregation Level 2 (5 sectors)
Health and social work	Public and welfare services	Public and welfare services
Other community, social, and personal services	Public and welfare services	Public and welfare services
Private households with employed persons	Services provided by private households	Public and welfare services

ERDI = Development Economics and Indicators Division, ICT = information and communication technology, nec = not elsewhere classified.

Source: Asian Development Bank. 2015. *Key Indicators for Asia and the Pacific 2015*. <https://www.adb.org/publications/key-indicators-asia-and-pacific-2015>.

**Gross domestic product (GDP)** measures the values of final goods and services produced within an economy over a given period. The charts on GDP show a growth trend, scaled to 2010 levels, for a particular economy in Asia as compared to the RoW and shares by five-sector aggregation (Table 1). Scaling to 2010 levels is the result of dividing the actual GDP by the 2010 GDP values of the economy and the RoW.

**Final consumption expenditure** comprises the major components of domestic demand together with net exports, which is the difference between exports and imports. The components of domestic demand are private consumption, which includes household consumption expenditure and expenditure by nonprofit institutions serving households, and gross capital formation, which is the investment, for instance, in the purchase of machinery and buildings as well as the constitution of stocks (inventories). When stock building, also known as changes in inventories, is excluded, the result is known as gross fixed capital formation. The charts on final consumption expenditure present the total trend and shares by five-sector aggregation over time.

**Intermediate consumption** represents the value of the raw materials, components, and partly manufactured goods going into a given product, as well as other services used in the production of a good or a service (Lequiller and Blades, 2014). When intermediate consumption is deducted from output, one eliminates double counting, and considers gross value added (GVA) as an indicator of output. GVA can also be disaggregated into domestic and imported goods and services. The charts on intermediate consumption present total trend, shares by five-sector aggregation, and ratio to output over time.

**GVA** is the value of output less the value of intermediate consumption; it is a measure of the contribution to GDP made by an individual producer, industry, or sector (Lequiller and Blades, 2014). It can also be referred to as two factors, labor and capital, which are compensated respectively by salaries and profits generated through production. The charts on GVA present total trend, shares by five-sector aggregation, and content in final consumption use.

**Gross output** is the sum of the GVA and the intermediate consumption of an economy **attributed to final demand**. The direct linkage between gross output and final demand refers to the finished deliveries of goods and services to different components of final consumption use. Conversely, the indirect linkage between output and final demand refers to the intermediate outputs used to produce the finished goods and services. These are calculated through matrix multiplication of the *Leontief Inverse* of the production matrix and the final demand vectors comprised of foreign demand (the RoW's final demand vector) and domestic demand (the national economy's final demand vector). The results show the different output levels necessary to satisfy the final demand requirements.



Leontief Inverse is also known as the *total requirements matrix*, and is calculated through the classic input-output model equation:

$$x = (I - A)^{-1}f = Lf \quad (1)$$

Where,

$$(I - A)^{-1} = L = [l_{ij}]$$

A is the matrix of technical coefficients that can be shown as  $A = Z\hat{x}^{-1}$  or  $A_{ij} = \frac{Z_{ij}}{X_j}$

*Technical coefficients* or input coefficients are the shares of costs for goods, services, and primary inputs in total input, which is equal to total output; usually calculated by dividing each entry of the IOT by the column total.

The **GVA attributed to final demand** is calculated by applying the GVA multipliers and the final demand vectors comprised of foreign demand (the RoW's final demand vector) and domestic demand (the national economy's final demand vector).

The decomposition exercise follows that  $f = f_d + f_e$ , where subscripts *d* and *e* stand for domestic final demand and exports, respectively. From equation (1), it follows that  $x = (I-A)^{-1}f_d + (I-A)^{-1}f_e$ , where *x* is a vector of gross output generated to satisfy both domestic and foreign final demand. Therefore, we can distinguish between

$$x_d = (I-A)^{-1}f_d$$

and

$$x_e = (I-A)^{-1}f_e$$

$x_d$  is the vector of gross output generated to satisfy domestic final demand, and  $x_e$  is the vector of gross output generated to satisfy foreign (export) demand.

Since  $v_{c,j} = v_j / x_j$

GVA attributed to domestic and foreign demand may be decomposed by pre-multiplying both equations 2 and 3 with the diagonalized vector of GVA coefficients,  $\hat{v}_c$ . Formulaically,

$$v_d = \hat{v}_c (I - A)^{-1}f_d \quad (2)$$

$$v_e = \hat{v}_c (I - A)^{-1}f_e \quad (3)$$

Multipliers are values used to estimate the effects of exogenous changes on (i) outputs of the sectors in the economy; (ii) income earned by households in each sector, due to new outputs; (iii) employment (jobs, in physical terms) that is generated by each sector due to new outputs; and (iv) the value-added, which is created by each sector in the economy due to new outputs (Miller and Blair, 2009).

**Output multipliers** refer to the total value of production in all sectors of the economy necessary for all stages of production to produce one unit of product for final demand. An output multiplier for a given sector, for instance, sector  $j$ , is

$$m = (o)j = \sum_{i=1}^n l_{ij} \quad (4)$$

As previously mentioned, **L** or Leontief Inverse is a matrix of sector-to-sector multipliers,  $l_{ij}$ , and output multipliers are the column sums of this matrix. These multipliers represent sector-to-economy multipliers, relating final demand in sector  $j$  to economy-wide output (Miller and Blair, 2009).

**GVA multipliers** quantify the total value-added generated in the economy due to a unit value change of final demand for each sector. To calculate GVA multipliers in matrix form, pre-multiply diagonalized value-added coefficients with the Leontief Inverse, **L**. Value-added coefficients are derived by dividing the GVA of sector  $j$  to the gross output of the same sector  $j$ , or in matrix form:  $-\hat{v}'_c = \hat{v}'\hat{x}^{-1}$ .

**Import multipliers** refer to the total intermediate imports that are required to satisfy one unit change in final demand for each sector. The same approach to GVA multipliers applies, but the share of imported inputs of sector  $j$  to the total output of sector  $j$  should be used in lieu of value-added coefficients.

## Part 2: Domestic Interindustry Linkages

### Patterns of Interindustry Transactions

An IOT is a widely used tool to study the pattern of production and consumption of the various industries operating in an economy. The flow of goods and services from one industry to another within the domestic market are visualized using chord diagrams. These interindustry flows refer to intermediate inputs produced in one industry to be absorbed by another as part of its production processes. The diagram rearranges the domestic economy into 13 differentiated tradable industries and makes explicit their direct mutual dependence based on the intermediate transactions.

The chord diagram has two main features: arcs and connections. Lengths of arcs, which determine sector sizes, are proportional to the output of the industry consumed for the domestic intermediate use to the total output consumed for domestic intermediate use of all industries, plus the proportion of its total consumption of outputs of other industries within the economy. The thickness of a connection shows the relative value of the output of the industry used by another industry. The colors of the connections follow the color of the industry of origin.

### Backward and Forward Linkages by Industry

**Backward linkage** refers to the impact of any change in the output of a sector to the sectors producing its input requirements. This indicates the interdependence of a sector with its suppliers. This term focuses on the causation in the demand-side model. Backward linkage measures the sector's dependence to sectors supplying their input requirements.

For the input-output model  $\mathbf{x} = (\mathbf{I} - \mathbf{A})^{-1}\mathbf{f} = \mathbf{L}\mathbf{f}$ , the backward linkage of the  $j^{\text{th}}$  sector is derived as the sum of the elements of the  $j^{\text{th}}$  column of the Leontief Inverse,  $\mathbf{L}$ . In an  $n$ -sector economy, the total backward linkage of the  $j^{\text{th}}$  sector is computed as:

$$BL_j = \sum_{i=1}^n l_{ij}, \quad (5)$$

where  $\mathbf{L} = [l_{ij}]$ . In this context, backward linkage is similar to the output multiplier.

Conversely, **forward linkage** refers to the impact of any change in the output of a sector to the sectors consuming its output as an input in their own production. This indicates the interconnection of a sector with sectors buying its output. This term focuses on the causation in the supply-side model. Forward linkage measures the sector's dependence to sectors using their output for production.

Forward linkages can be derived using Ghosh's model:

$$\mathbf{x}' = \mathbf{v}'(\mathbf{I} - \mathbf{B})^{-1} = \mathbf{v}'\mathbf{G}, \quad (6)$$

where forward linkage of the  $i^{\text{th}}$  sector is derived as the sum of the elements of the  $i^{\text{th}}$  row of the Ghosh matrix  $\mathbf{G}$ . The total forward linkage of the  $i^{\text{th}}$  sector is computed as:

$$FL_i = \sum_{j=1}^n g_{ij}, \quad (7)$$

where  $\mathbf{G} = [g_{ij}]$ .

Using normalized values helps gauge relative strength of interindustry linkage. This allows the classification of industries as more dependent or less dependent on suppliers of inputs (backward linkage perspective) or users of their output (forward linkage perspective). Both forward and backward linkages were normalized by dividing the sector linkage to the mean linkage of all sectors. Normalized backward linkage (NBL) for sector  $j$  is computed as:

$$\overline{BL}_j = \frac{BL_j}{\frac{1}{n} \sum_{j=1}^n BL_j} \quad (8)$$

and normalized forward linkage (NFL) for sector  $i$  is computed as:

$$\overline{FL}_i = \frac{FL_i}{\frac{1}{n} \sum_{i=1}^n FL_i}. \quad (9)$$

This method gives us unity as the bar between industries considered to be independent of other industries (below average or weaker linkage) with industries that are more dependent on other industries (above average or stronger linkage).

### Scatterplot of Backward and Forward Linkages

In normalized form, sectors considered to have “high” forward and backward linkages are those that score greater than 1 for either NBL or NFL. For 2010 and 2017, sectors may

be distributed over a four-way classification based on their relative backward and forward linkages. Following Miller & Blair (2009), sectors in the first quadrant have high forward and backward linkages ( $NFL > 1$ ,  $NBL > 1$ ) indicating high dependence on both their suppliers and consumers in other sectors. Sectors in the second quadrant are more dependent on sectors using their output ( $NFL > 1$ ) and less dependent on sectors producing their inputs ( $NBL < 1$ ). Sectors in the third quadrant are those that have relatively lower dependence on other sectors ( $NFL < 1$ ,  $NBL < 1$ ). Sectors in the fourth quadrant have high dependence on their suppliers ( $NBL > 1$ ) and less dependence on sectors using their output ( $NFL < 1$ ).

Accompanying tables on normalized backward and forward linkages show results for every sector in the selected domestic economy for 2010–2017.

## Hypothetical Extraction of Select Industries from the Domestic Economy

Hypothetical extraction aims to quantify how much the total output of an economy would change (decrease) if a particular sector were removed from that economy. This is an alternative approach to determining relative importance of an industry by its direct and indirect contributions to the economy. The GVA of a sector may be interpreted as the direct economic contribution, while its production linkages with the rest of the economy underscore its indirect contribution.

### Hypothetical Extraction Results

Hypothetical extraction is modeled in the context of input-output by deleting row and column elements of sector  $j$  in the direct requirements matrix  $\mathbf{A}$  by replacing them with zeros to generate a new matrix  $\tilde{\mathbf{A}}_j$ . This effectively cancels out any mutual interdependence of sector  $j$  with the rest of the sectors in the economy. It also follows that there is no final demand,  $\mathbf{f}_{(j)} = 0$ , and no primary inputs,  $\mathbf{v}_{(j)} = 0$ , from sector  $j$ . Utilizing the standard Leontief model with  $\tilde{\mathbf{A}}_j$  and  $\tilde{\mathbf{f}}$  generates a new vector of gross output,  $\tilde{\mathbf{x}}$ . The difference between the output of the hypothetical and baseline scenarios is known to be an aggregate measure of the economy's loss (decrease in value of gross output) if sector  $j$  disappears. As such, it is a measure of the importance or total linkage of sector  $j$ . It is possible to calculate the economy's loss in terms of GVA by pre-multiplying the vector of gross value added coefficients with sector  $j$  set to null,  $\mathbf{v}_{(j)} = 0$ . The resulting vector shows total GVA generated in a hypothetical scenario where there is no sector  $j$ .

### Comparison of Production Gaps between Actual and Hypothetical Scenarios

Production gaps refer to the difference between the baseline scenario and hypothetical scenario with the extraction of sector  $j$ . Results are presented by decomposing economic loss attributed to two broad categories of final demand: domestic and foreign (exports). Given new direct requirements, matrix  $\tilde{\mathbf{A}}_j$ , hypothetical gross output and GVA levels may be decomposed according to (i) production attributed to domestic final demand given the known vector of domestic final demand,  $\tilde{\mathbf{f}}_d$ , and (ii) production attributed to foreign demand given the vector of exports  $\tilde{\mathbf{f}}_e$ . The gap between the two scenarios in either variant (i.e., production for domestic and foreign demand) may be interpreted as the potential economic loss, accounting for the removal of direct and indirect production linkages of sector  $j$ .

## Part 3: International Trade and Production Linkages

### Exports and Imports as a Percentage of Gross Domestic Product

Exports and imports as a percentage share of GDP, or simply the trade-to-GDP ratio, is an indicator of the relative importance of international trade to a national economy. It is derived by dividing the gross value of exports and imports over a period by the GDP for the same period.

### Total Foreign Trade by Sector

Total foreign trade shows the gross imports and exports by sector measured in millions of US dollars.

### Export Activity by End-Use Category

Trends of export levels from 2010 to 2017 are presented by types of end-use: intermediate use and final use. Complementing this graph are the shares of each aggregate sector in the exports of each end-use category.

### Import Activity by End-Use Category

Trends of import levels from 2010 to 2017 are presented by types of end-use: intermediate use and final use. Complementing this graph are the shares of each aggregate sector in the exports of each end-use category.

### International Buying and Selling Patterns of Domestic Industries

This section shows international sourcing and selling patterns in the domestic industries by calculating the shares of internationally traded inputs (the amount of inputs sourced from the RoW) and internationally traded outputs (the amount of output that was exported to the RoW) in the gross output of each sectoral aggregation.

### Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios

**Imported inputs** are noncompetitive imports used by domestic industries in their respective production processes. In other words, they exclude any imports used by final consumers. Each industry's imported inputs are divided by the total output to derive the imported input-to-output ratio. Conversely, exported output is simply the amount of domestic production that was consumed by nonresidents either for further production processes or for final consumption. Exported output is divided by the total (gross) output of each industry to derive the exported output-to-output ratio.

These ratios are used to rank each sector of the economy and highlight how much internationally traded input and output is involved in the production processes of each sector.

### Total Foreign-Traded Input

Analogous to imported inputs.

### Total Foreign-Traded Output

Analogous to exports, or the amount of goods and services produced by residents in the economy  $r$  and consumed by nonresidents either for intermediate or final use. Measured in gross terms, this statistic is often cited as having limitations for isolating double-counted terms from multiple border crossings.

### Domestic Production and International Linkages

For this indicator, the computational exercise takes place in the context of a two-region interregional model, where we assume region  $r$  to refer to the domestic economy, and  $s$  as being the RoW. A salient feature of a two-region IOT is that it provides the mechanism for detailing the direct and indirect linkages between production and trade in a systematic manner. The total requirements matrix,  $\mathbf{L}$ , can therefore be decomposed into three components based on the intrinsic cause (demand) driving the production of the output: intraregional effect ( $\mathbf{M}_1$ ), interregional spillover effect ( $\mathbf{M}_2$ ), and interregional feedback effect ( $\mathbf{M}_3$ ), where:

$$\mathbf{L} = \mathbf{M}_3 * \mathbf{M}_2 * \mathbf{M}_1$$

Formulaically, in a two-economy model, it is expressed as:

$$\mathbf{M}_1 = \begin{bmatrix} (\mathbf{I} - \mathbf{A}^{rr})^{-1} & \mathbf{0} \\ \mathbf{0} & (\mathbf{I} - \mathbf{A}^{ss})^{-1} \end{bmatrix} \quad (10)$$

$$\mathbf{M}_2 = \begin{bmatrix} \mathbf{I} & (\mathbf{I} - \mathbf{A}^{rr})^{-1} \mathbf{A}^{rs} \\ (\mathbf{I} - \mathbf{A}^{ss})^{-1} \mathbf{A}^{sr} & \mathbf{I} \end{bmatrix} \quad (11)$$

$$\mathbf{M}_3 = \begin{bmatrix} [\mathbf{I} - (\mathbf{I} - \mathbf{A}^{rr})^{-1} \mathbf{A}^{rs} (\mathbf{I} - \mathbf{A}^{ss})^{-1} \mathbf{A}^{rs}]^{-1} & \mathbf{0} \\ \mathbf{0} & [\mathbf{I} - (\mathbf{I} - \mathbf{A}^{ss})^{-1} \mathbf{A}^{sr} (\mathbf{I} - \mathbf{A}^{rr})^{-1} \mathbf{A}^{sr}]^{-1} \end{bmatrix} \quad (12)$$

Where  $\mathbf{I}$  is the identity matrix and  $\mathbf{0}$  is the zero matrix, both with the same dimension as the relevant technical coefficient matrix  $\mathbf{A}$ .  $\mathbf{A}^{rr}$  and  $\mathbf{A}^{ss}$  are the technical coefficient matrices of transactions within economies  $r$  and  $s$ , respectively. The coefficients related to interregional transactions are captured in matrixes  $\mathbf{A}^{rs}$  and  $\mathbf{A}^{sr}$ .

$\mathbf{M}_1$ , or intraregional effect, captures the total output that a sector must produce to meet the total domestic (intraregional) requirement arising from a unit value increase in final demand for any given commodity in any given location.

$\mathbf{M}_2$ , or interregional spillover effect, measures the pure interregional direct and indirect demand for the sector's product.

$\mathbf{M}_3$ , or interregional feedback effect, shows the demand of a sector or an economy for its own product(s), resulting from its product(s) being used in the production of commodities that are themselves demanded by the sector or economy in question for its production process.

### Decomposition of Total Production Attributable to Domestic and Interregional Demand

In terms of additive decomposition,  $L$  can also be expressed as follows:

$$L = I + (M_1 - I) + (M_2 * M_1 - M_1) + (M_3 * M_2 * M_1 - M_2 * M_1) \quad (13)$$

Therefore, gross output,  $x$ , can be expressed as:

$$x = \underbrace{Lf}_{\text{Gross output}} = \underbrace{If}_{\text{Direct intra-regional}} + \underbrace{(M_1 - I)f}_{\text{Indirect intra-regional}} + \underbrace{(M_2 - I)M_1f}_{\text{Net inter-regional}} + \underbrace{(M_3 - I)M_2M_1f}_{\text{Net feedback}} \quad (14)$$

The decomposition isolates the initial, intraregional, interregional, and feedback effects. The last two terms of the above equation capture the effects of interregional trade linkages on an economy's sector-specific production activities. They could also be used as a measure of the level and evolution of integration between two or more economies. The last term could serve as an indicator of an economy's (or one of its sector's) intensity of participation in globally distributed production processes. A high value indicates that the sector under consideration is connected to the relevant international production processes at more than one level.

### Growth Rates of Production Components Based on Interregional Input–Output Tables

This graph depicts year-on-year growth rates of each of the four production components based on the multiplier decomposition described.

#### Production Attributable to Domestic Linkages by Sector

Based on the multiplier decomposition method described, this table shows two components of production that are directly related to production linkages within the domestic region,  $M_1$ . Each gross output component is shown by 5-sector aggregation in terms of millions of US dollars. The first subsection (top) presents the total final demand by sector (direct  $M_1$ ), while the second subsection (bottom) shows the indirect production by sector.

#### Production Attributable to Linkages with the Rest of the World by Sector

Based on the multiplier decomposition method described, this table shows two components of production that are directly related to production linkages with the RoW,  $M_2$  and  $M_3$ . Each gross output component is shown by 5-sector aggregation in terms of millions of US dollars.

**Net intraregional (domestic) multipliers** capture the total output that a sector must produce to meet the indirect intraregional requirement for its output arising from a unit value increase in final demand for any given commodity in any given location. Each value shows the additional million US dollars' worth of domestic production required to satisfy a corresponding million US dollars' worth of final demand for sector  $i$ .



**Net interregional multipliers** measure the pure interregional direct and indirect demand for a sector's product. Each value shows the additional million US dollars' worth of interregional production requirements to satisfy one million US dollars' demand for sector  $j$ .

**Net feedback multipliers** show the demand of a sector or an economy for its own product(s), resulting from its product(s) being used in the production of commodities that are themselves demanded by the sector or economy in question for its production process.

## Gross Trade Decomposition

### Comparison of Exports in Gross versus Value-Added Terms

Exports in gross trade and trade in value-added terms are explored in this set of indicators.

Traditional measures of trade record gross flows of goods and services each time they cross borders. This double counting in trade statistics can, to some extent, overstate the importance of exports to GDP and ignore the relative importance of cross-border production-sharing arrangements. Gross trade value aggregates all three broad components: domestic value-added, foreign value-added, and pure double counted terms. In attempt to disentangle domestic value-added from gross trade statistics, Wang, Wei, and Zhu (2013) advocated the use of domestic value-added absorbed abroad (VAX\_G). VAX\_G includes three components: (i) domestic value-added embodied in economy  $s$ ' (the domestic economy in focus) final exports to economy  $r$  (RoW); (ii) domestic value-added embodied in economy  $s$ ' intermediate exports used by direct importer  $r$  to produce final goods and consumed in  $r$ ; and (iii) domestic value-added in intermediate exports by economy  $s$ , used by direct importer  $r$ , to produce exports ultimately absorbed by all other economies except  $s$ .

As a measure of domestic value-added embodied in exports (excluding domestic value-added first exported then returned home), VAX\_G explicitly excludes foreign-originated value-added and pure double-counted terms. These exclusions account for the difference between traditional gross exports and VAX\_G measures.

### Revealed Comparative Advantage: Traditional versus Value-Added Measures

Revealed comparative advantage (RCA) measures the intensity of trade specialization of a national economy in the context of the RoW. The RCA of a particular sector can be measured in a more traditional way by looking at how an exported product compares with other products using gross terms. It can also be measured by the actual value-added created by an economy and embodied in an export.

Following Bela Balassa (1965), traditional revealed comparative advantage (TRCA) of economy  $r$  is defined as:

$$TRCA_i^r = \frac{\frac{e_i^{r*}}{\sum_i^n e_i^{r*}}}{\frac{\sum_t^G e_i^{t*}}{\sum_i^n \sum_t^G e_i^{t*}}} \quad (15)$$



That is, the TRCA is equal to the export share of an industry to the total exports of an economy,  $\frac{e_i^{r*}}{\sum_i^n e_i^{r*}}$ , divided by the export share of this industry in the world,  $\frac{\sum_t^G e_i^{t*}}{\sum_i^n \sum_t^G e_i^{t*}}$ .

An RCA value of less than 1 implies that the economy is not specialized in exports of this industry. Similarly, an RCA value exceeding 1 implies that the economy is specialized in this industry's exports.

Wang, Wei, and Zhu (2013) proposed a new measure of revealed comparative advantage (NRCA) that excludes foreign value-added and pure double-counted terms in gross exports, but includes indirect exports of an economy-sector's value-added through other sectors of the exporting economy. The authors defined NRCA as the share of an economy-sector's forward-linkage-based measure of domestic value-added in exports,  $dvix\_f$ , in the economy's total domestic value-added in exports relative to the sector's total forward-linkage-based domestic value-added in exports from all economies as a share of global value-added in exports. The NRCA is defined as:

$$NRCA_i^r = \frac{\frac{dvix\_f_i^{r*}}{\sum_{i=1}^n dvix\_f_i^{r*}}}{\frac{\sum_t^G dvix\_f_i^{t*}}{\sum_i^n \sum_t^G dvix\_f_i^{t*}}} \quad (16)$$

NRCA uses the same interpretation as TRCA, except that, instead of using gross exports,  $e$ , NRCA only includes the domestic value-added component of export in each sector.

## Part 4: Global Value Chain Indicators

This section focuses on different indicators for global value chains (GVCs), namely trade in value-added, GVC income, and GVC participation. GVCs refer to how international trade, production, and investments are organized and analyzed through the different stages of production processes, traced across different national economies.

**Trade in value-added** refers to the export, import, and net trade in value-added between one economy and another. The network graph shows the trade in value-added of the economy in focus with its top trading partner economies in 2010 and 2017. The diameter of the nodes or circles represent the GDP of the economy and the width or magnitude of the arrows represent how much trade in value-added comes in and goes out from the economy in focus and its trading partners. In addition, the green shade of the nodes and arrows represents the importing partner economy and import of value-added, respectively, while the blue shade of the nodes and arrows represents the exporting partner economy and export of value-added, respectively. Note that the curved arrows do not have any implication regarding the indicator presented.

Using the notations of Johnson and Noguera (2012) for trade in value-added, consider the following multi-region IOT of  $G$  economies with  $N$  sectors.

**Table 3: Multi-Region Input-Output Table**

		Intermediate Uses				Final Uses				Gross Outputs
		Economy 1	Economy 2	...	Economy G	1	2	...	G	
Intermediate Inputs	1	$Z_{11}$	$Z_{12}$	...	$Z_{1G}$	$f_{11}$	$f_{12}$	...	$f_{1G}$	$x_1$
	2	$Z_{21}$	$Z_{22}$	...	$Z_{2G}$	$f_{21}$	$f_{22}$	...	$f_{2G}$	$x_2$
	...	...	...	...	...	...	...	...	...	...
	G	$Z_{G1}$	$Z_{G2}$	...	$Z_{GG}$	$F_{G1}$	$F_{G2}$	...	$F_{GG}$	$X_G$
Value-Added		$v_1'$	$v_2'$	...	$v_G'$					
Total Inputs		$x_1$	$x_2$	...	$x_G$					

Source: Adapted from Miller and Blair (2009).

The vector  $\mathbf{f}_{st} = [f_{st}(i)]$  contains values of goods or services consumed for final use in economy  $t$ , produced in sector  $i$  in economy  $s$ . Matrix  $\mathbf{Z}_{st} = [z_{st}(i, j)]$  is composed of values of goods or services consumed by sector  $j$  in economy  $s$ , produced in sector  $i$  in economy  $s$ . The vector of outputs of each sector in economy  $s$  is:

$$\mathbf{x}_s = [x_s(i) = \sum_t \mathbf{f}_{st}(i) + \sum_t \sum_j \mathbf{f}_{st}(i, j)]. \quad (17)$$

Then for  $N \times N$  matrix  $\mathbf{A} = [a_{st}(i, j) = f_{st}(i, j)/x_s(j)]$  we express the multi-region output as:

$$\mathbf{x} = \mathbf{Ax} + \sum_t \mathbf{f}_t \rightarrow \mathbf{x} = \sum_t (\mathbf{I} - \mathbf{A})^{-1} \mathbf{f}_t. \quad (18)$$

This parallels the classic input-output model for one region such that  $(\mathbf{I} - \mathbf{A})^{-1}$  is interpreted similarly with the Leontief Inverse.

Exports of value-added produced in sector  $i$  in economy  $s$  and absorbed in economy  $t$  are then computed as:

$$v_{st}(i) = r_s(i) x_{st}(i), \quad (19)$$

where,

$$r_s(i) = 1 - \sum_t \sum_j a_{ts}(j, i) \quad (20)$$

is the ratio of value-added to output for each sector in economy  $s$ . Then the total export of value-added from economy  $s$  to  $t$  is:

$$v_{st} = \sum_i r_s(i) x_{st}(i). \quad (21)$$

The total export of value-added of economy  $s$  to all trading-partner economies is:

$$v_s = \sum_i \sum_t r_s(i) x_{st}(i). \quad (22)$$

and the total import of value-added of economy  $t$  from all trading-partner economies is:

$$v_t = \sum_j \sum_s r_s(i) x_{st}(i). \quad (23)$$

Timmer et al. (2013) used the term GVC income for import of value-added. The difference  $va_s - va_t$ , is the **value-added trade balance** or the net trade in value-added that gives a better picture of the exchange of goods and services from national economy to national economy.

### Global Value Chain Participation Index

This part examines each economy's movements in GVC participation. Following Wang et al. (2017), we can decompose total production activities at the economy- and sector-levels, depending on whether production activities are for pure domestic demand, traditional trade, simple GVC activities, and/or complex GVC activities.

#### Decomposing Value-Added and Final Goods Production Activities

GVCs depend on goods that are used as inputs and which cross national borders for production. Therefore, the first steps in measuring GVC participation are to separate final and intermediate use, distinguish between domestic and foreign value-added, and identify which types of production are GVC activities and which are not. To distinguish between domestic and foreign value-added, the domestic and the import input-output coefficient matrix in the MRIO may be used in the national IOT,

$$X = AX + Y \quad (24)$$

Where  $X$  is the gross output vector,  $Y$  is the final demand vector, and  $A$  is the input-output technical coefficient matrix. Using this gross output equation, which splits intermediate and final goods, the production and use balance of production may be written as:

$$X = A^D X + Y^D + A^F X + Y^F = A^D X + Y^D + E \quad (25)$$

which can be rearranged to get:

$$\begin{aligned} X &= (A - A^D)^{-1} Y^D + (I - A^D)^{-1} E = LY^D + LE \\ X &= LY^D + LY^F + LA^F X \end{aligned} \quad (26)$$

where  $A^D$  is the diagonal block matrix of domestic input coefficients,  $A^F$  is the off-diagonal block matrix of imported input coefficients,  $Y^D$  is the vector of final goods production for domestic consumption, and  $Y^F$  is the vector of final goods exports.

Replacing  $L$  with  $B$  as the global Leontief Inverse matrix and replacing  $X$  as  $BY$  obtains the decomposition of value-added and final goods production may be written as follows:

$$\hat{V}\hat{B}\hat{Y} = \hat{V}\hat{L}\hat{Y}^D + \hat{V}\hat{L}\hat{Y}^F + \hat{V}\hat{L}\hat{A}^F\hat{B}\hat{Y} \quad (27)$$

$$\hat{V}\hat{B}\hat{Y} = \hat{V}\hat{L}\hat{Y}^D + \hat{V}\hat{L}\hat{Y}^F + (\hat{V}\hat{L}\hat{A}^F\hat{L}\hat{Y}^D) + \hat{V}\hat{L}\hat{A}^F(\hat{B}\hat{Y} - \hat{L}\hat{Y}^D) \quad (28)$$

The first term refers to pure domestic production or domestic production absorbed by domestic final demand without cross-border trade. The second term refers to traditional trade or the production of final goods or exports absorbed by foreign final demand. In this type of production activity, value-added crosses national borders only once and only for consumption. Both pure domestic production and traditional trade are non-GVC production activities

because there is no domestic value-added that crosses national borders for production purposes. The third and fourth terms refer to GVC production activities. GVC activities are those activities in which value-added crosses national borders for production. It is the sum of value-added embodied in intermediate goods for export or import. GVC production activities can be further decomposed into simple and complex GVC activities. Simple GVCs involve domestic value-added crossing national borders for production only once, while complex GVCs involve domestic value-added crossing national borders for production at least twice.

By decomposing GVC participation indices between participation in non-GVC and GVC production activities, the extent by which domestic value-added in a economy-sector is involved in the GVCs production activities can be measured. Furthermore, the structural change in an economy's different types of value-added creation activities at the sectoral level and its relevance to an economy's GDP growth can be analysed based on this decomposition.

### Measuring Participation Based on Forward and Backward Linkages in Global Value Chains

Based on the decomposition of value-added and final goods production, we can identify which types of production are GVC production activities. Therefore, participation in GVCs can be measured at the economy-sector level in four ways, based on forward and backward linkages through

- (i) exports of domestic value-added embodied in intermediate exports used by direct importers for domestic consumption, labelled as simple GVCs based on forward linkages;
- (ii) exports of domestic value-added in intermediate exports used by direct importers to produce exports to third-party economies, labelled as complex GVCs based on forward linkages;
- (iii) imports of foreign value-added that are used to produce goods for domestic consumption, labelled as simple GVCs based on backward linkages; and
- (iv) imports of foreign value-added that are used to produce exports to other economies, labelled as complex GVCs based on backward linkages.

The sum of Eq. 28 along the rows provides the decomposition of value-added from an economy-sector from upstream activities, which indicates GVC participation based on forward linkages, **GVCPT\_F**. It refers to the sum of each economy-sector's value-added used in all downstream sectors.

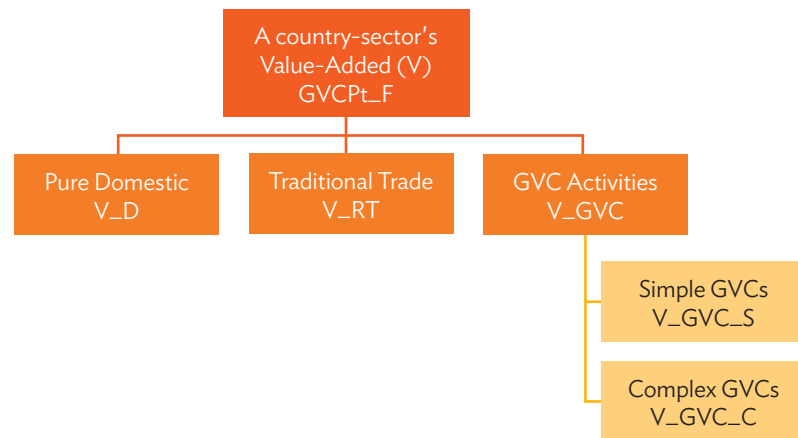
$$\hat{V}\hat{B}\hat{Y} = \underbrace{\hat{V}\hat{L}\hat{Y}^D}_{(1)V-D} + \underbrace{\hat{V}\hat{L}\hat{Y}^F}_{(2)V-RT} + \underbrace{\hat{V}\hat{L}\hat{A}^F\hat{L}\hat{Y}^D}_{(3a)V\_GVC\_S} + \underbrace{\hat{V}\hat{L}\hat{A}^F(\hat{B}\hat{Y} - \hat{L}\hat{Y}^D)}_{(3b)V\_GVC\_C} \quad (29)$$

The sum of Eq. 28 along the columns provides the decomposition of an economy-sector's final goods production, which indicates GVC participation based on backward linkages, **GVCPT\_B**. It refers to the sum of value-added in an economy-sector's final goods production that is involved in GVC activities from all upstream sectors.

$$\hat{V}\hat{B}\hat{Y} = \underbrace{\hat{V}\hat{L}\hat{Y}^D}_{Y-D} + \underbrace{\hat{V}\hat{L}\hat{Y}^F}_{Y-RT} + \underbrace{\hat{V}\hat{L}\hat{A}^F\hat{L}\hat{Y}^D}_{Y\_GVC\_S} + \underbrace{\hat{V}\hat{L}\hat{A}^F(\hat{B}\hat{Y} - \hat{L}\hat{Y}^D)}_{Y\_GVC\_C} \quad (30)$$

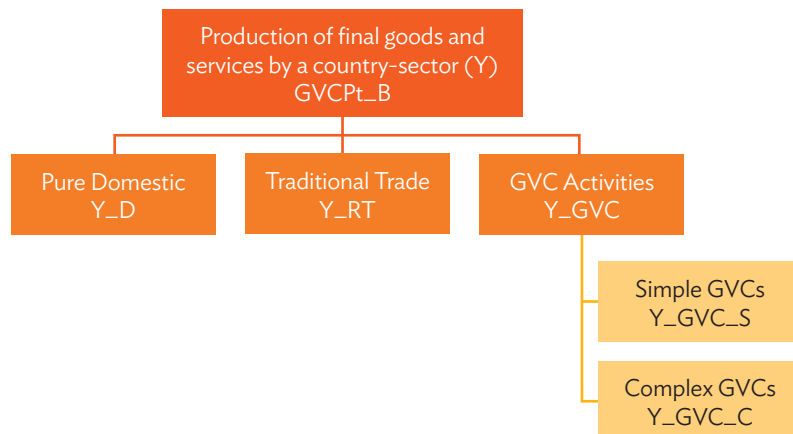
$\hat{V}LY^D$  and  $VL\hat{Y}^D$  are labelled as **V\_D** and **Y\_D** which refers to the value-added that is produced and absorbed domestically.  $\hat{V}LY^F$  and  $VL\hat{Y}^F$  are labelled as **V\_RT** and **Y\_RT** which refers to value-added that is embodied in final goods exports and absorbed by the direct importer for consumption only. At the economy aggregate level, **V\_D** and **V\_RT** are equal to **Y\_D** and **Y\_RT**.  $\hat{V}LY^F LY^D$  and  $VL\hat{Y}^F LY^D$  are labelled as simple GVC activities **V\_GVC\_S** and **Y\_GVC\_S** while  $\hat{V}LA^F (BY - LY^D)$  and  $VLA^F (B\hat{Y} - L\hat{Y}^D)$  are labelled as complex GVC activities **V\_GVC\_C** and **Y\_GVC\_C**. **V\_GVC\_S** is domestic value-added embodied in an economy-sector's intermediate exports that are used by the direct importer to produce domestic final goods that are absorbed by domestic final demand. **Y\_GVC\_S** is foreign value-added in an economy-sector that is imported directly from partner countries and are used to produce domestic final goods consumed domestically. **V\_GVC\_C** is an economy-sector's value-added embodied in its intermediate exports and used by the direct importer to produce intermediate and final exports to other countries. **Y\_GVC\_C** is the returned domestic value-added or foreign value-added embodied in an economy-sector's intermediate imports that are used to produce final goods absorbed at the home economy or exported to other countries. Because **V\_GVC\_C** and **Y\_GVC\_C** involves indirect international trade through third countries, they will only equal each other at the global aggregate level.

**Figure 1: Decomposition of Value-added by Industry (Forward Linkages)**



Source: Wang et al. (2017).

**Figure 2: Decomposition of Final Goods Production by Economy/Sector (Backward Linkages)**



Source: Wang et al. (2017).

### **GVC Participation Based on Backward and Forward Linkages at the Economy/Sector Level**

For each sector, the GVC participation index based on forward and backward linkages, and their decomposition into simple and complex GVC activities, can be measured. Breaking down the decomposition of economic sectors into both forward and backward linkages shows the general pattern in production structures among sectors. In general, services tend to have a low degree of participation in both backward and forward linkages, while manufacturing tends to have a high degree of both backward and forward participation. Major producers and exporters in the primary sector, including agriculture and mining, often have a high degree of forward participation and a low degree of backward participation.

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# COUNTRY PROFILES

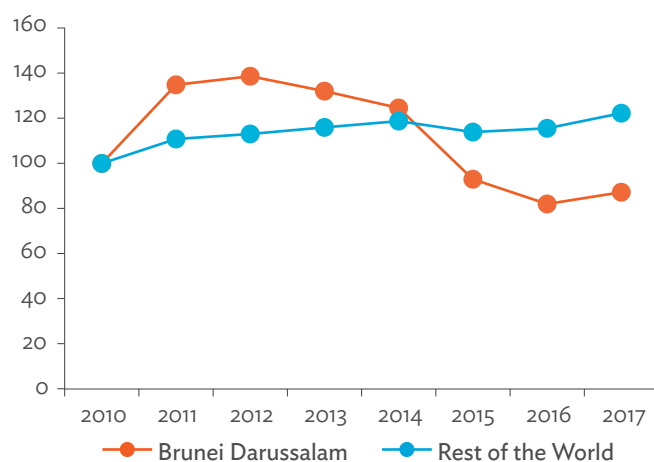
Southeastern Asia  
and the Pacific

# 1.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Brunei Darussalam

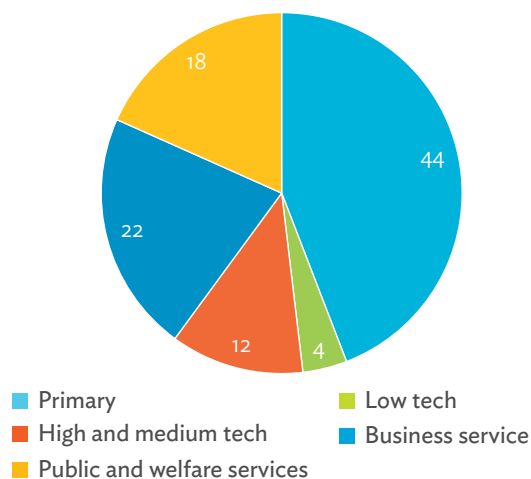
**Figure 1.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

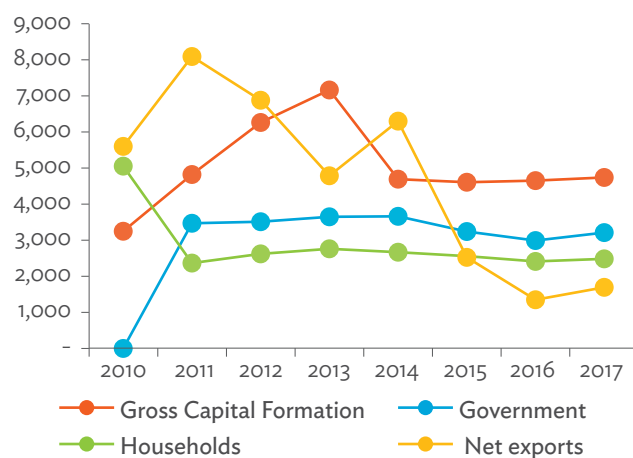
**Figure 1.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

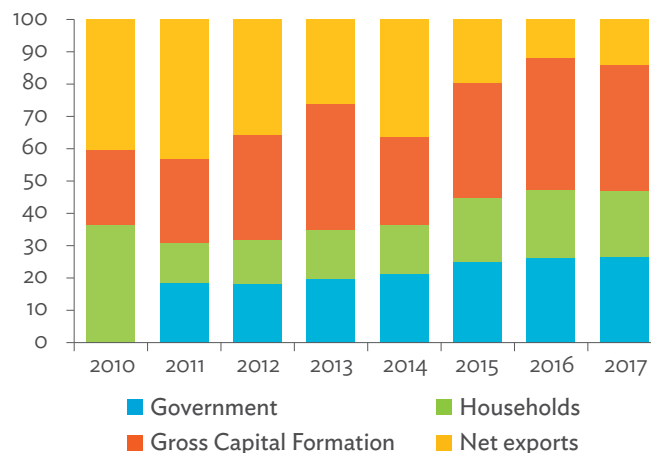


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

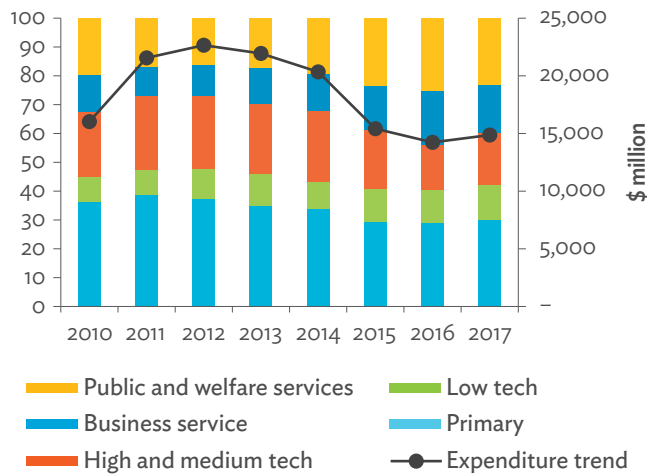
**Figure 1.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

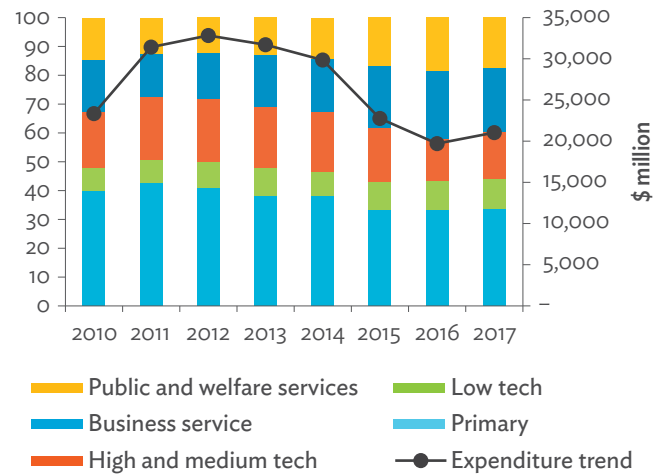


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

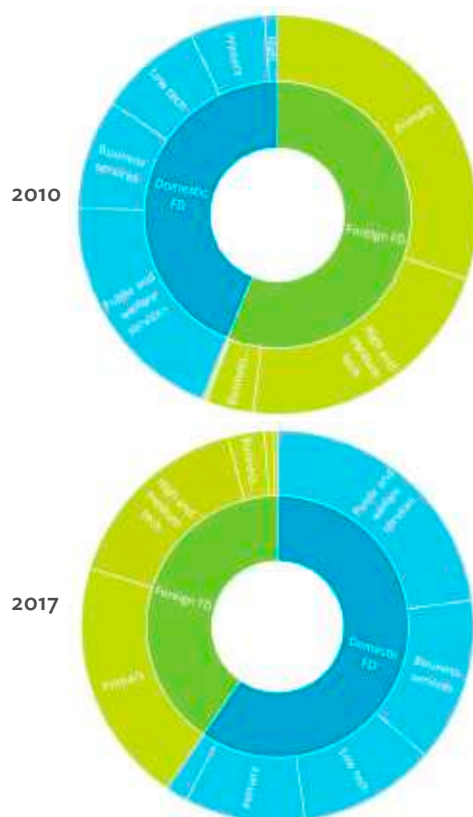


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

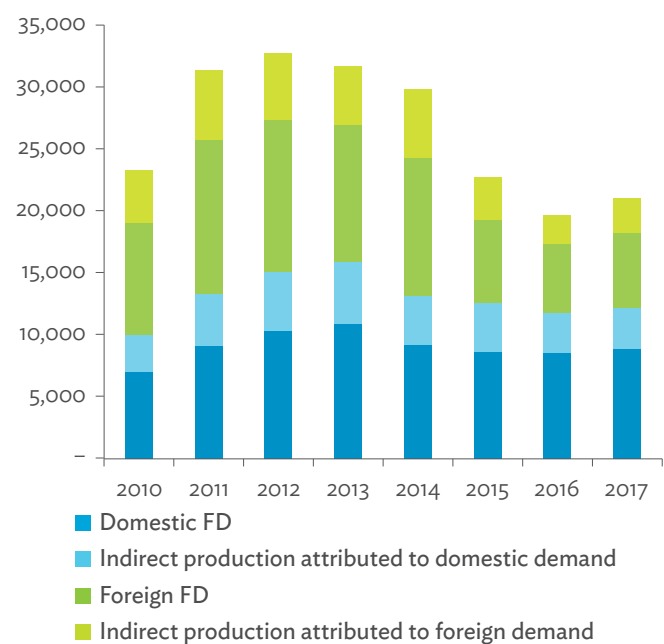


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

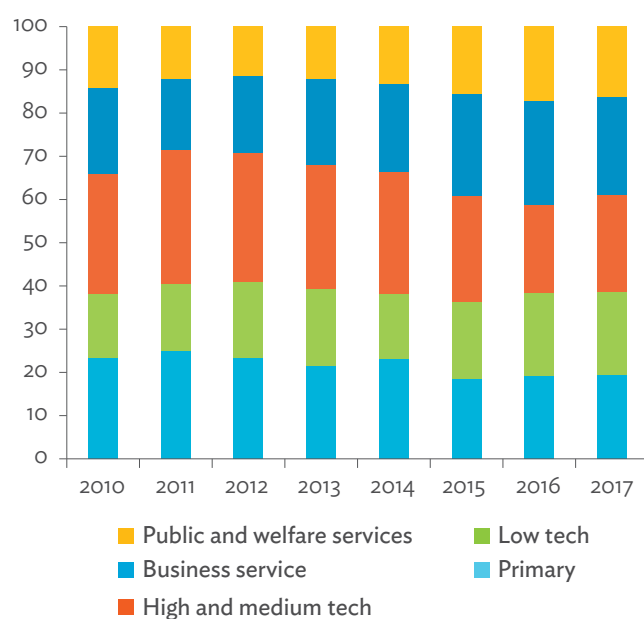


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

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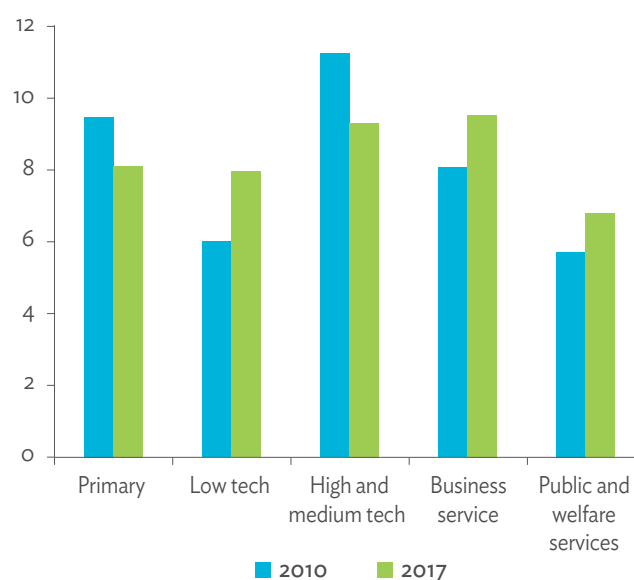
**Figure 1.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

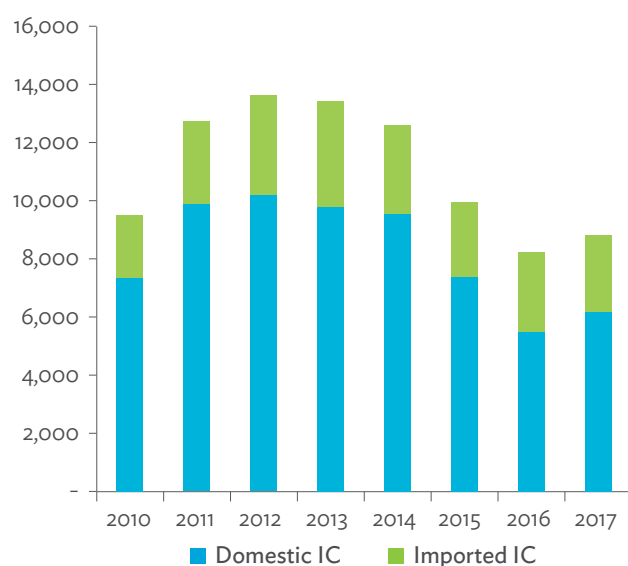
**Figure 1.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

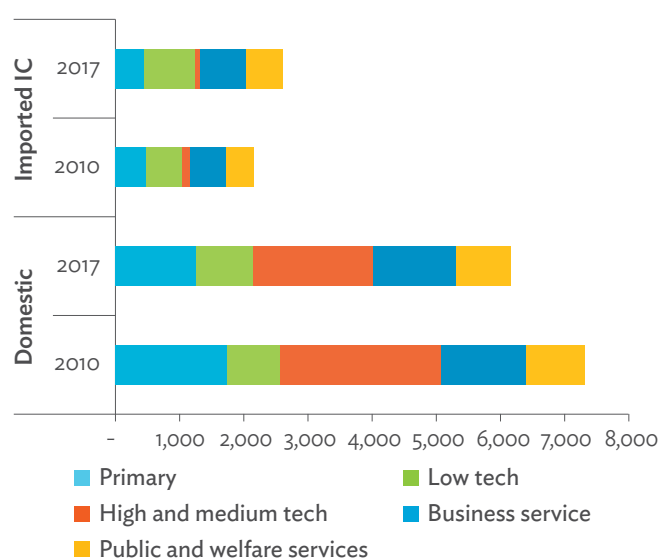


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

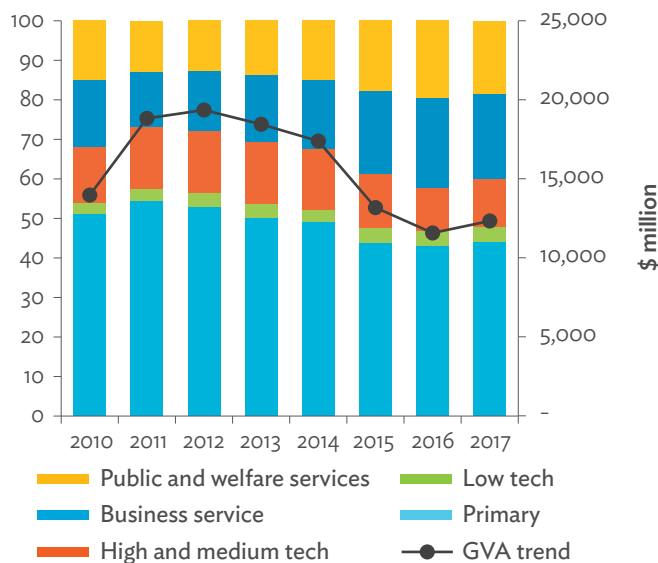


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

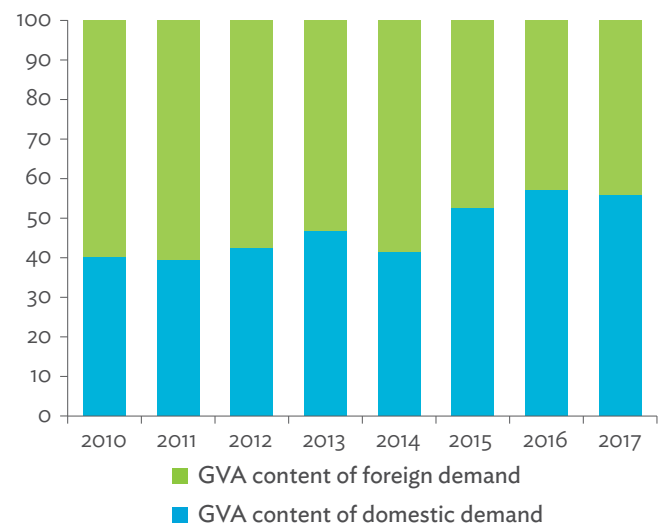


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

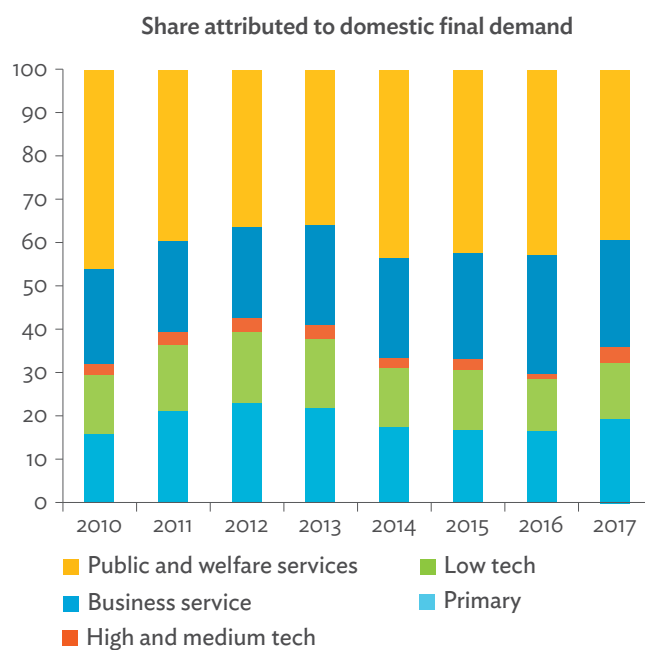


GVA = gross value added.

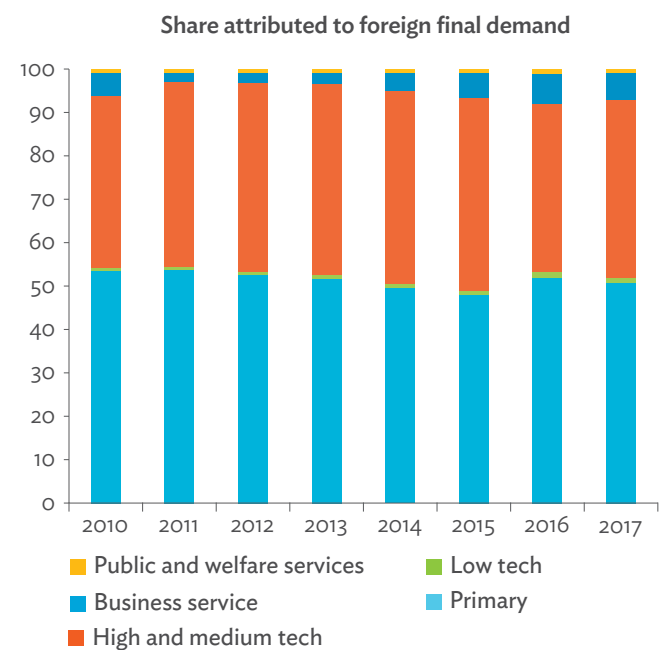
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.



[Click here for figure data](#)

**Table 1.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.735	0.730	0.732	0.729	0.738	0.742	0.741	0.718
Mining and quarrying	0.932	0.934	0.925	0.920	0.919	0.931	0.890	0.919
Food, beverages, and tobacco	0.576	0.575	0.574	0.571	0.558	0.561	0.517	0.525
Textiles and textile products	0.800	0.868	0.867	0.865	0.854	0.866	0.846	0.842
Leather, leather products, and footwear	0.007	0.206	0.867	0.865	0.803	0.582	0.781	0.794
Wood and products of wood and cork	0.668	0.703	0.691	0.685	0.659	0.685	0.589	0.639
Pulp, paper, paper products, printing, and publishing	0.668	0.703	0.691	0.685	0.656	0.676	0.430	0.630
Coke, refined petroleum, and nuclear fuel	0.946	0.924	0.890	0.868	0.937	0.949	0.910	0.935
Chemicals and chemical products	0.946	0.924	0.890	0.868	0.937	0.949	0.907	0.936
Rubber and plastics	0.691	0.717	0.697	0.683	0.671	0.691	0.442	0.647
Other nonmetallic minerals	0.691	0.717	0.697	0.683	0.671	0.691	0.442	0.647
Basic metals and fabricated metal	0.732	0.733	0.723	0.713	0.717	0.731	0.499	0.695
Machinery, nec	0.732	0.733	0.723	0.713	0.717	0.731	0.499	0.695
Electrical and optical equipment	0.732	0.733	0.723	0.713	0.717	0.731	0.499	0.695
Transport equipment	0.732	0.733	0.723	0.713	0.717	0.731	0.499	0.695
Manufacturing, nec; recycling	0.732	0.733	0.723	0.713	0.717	0.731	0.499	0.695
Electricity, gas, and water supply	0.843	0.842	0.823	0.812	0.814	0.833	0.814	0.799
Construction	0.551	0.589	0.579	0.573	0.536	0.550	0.505	0.501
Sale, maintenance, and repair	0.681	0.703	0.698	0.698	0.660	0.688	0.640	0.634
Wholesale trade and commission trade	0.821	0.830	0.822	0.820	0.806	0.826	0.796	0.790
Retail trade	0.821	0.830	0.822	0.820	0.806	0.829	0.796	0.809
Hotels and restaurants	0.694	0.684	0.685	0.682	0.676	0.682	0.671	0.651
Inland transport	0.887	0.870	0.857	0.854	0.877	0.918	0.820	0.880
Water transport	0.860	0.849	0.835	0.829	0.851	0.893	0.824	0.839
Air transport	0.776	0.778	0.752	0.740	0.774	0.823	0.624	0.764
Other supporting and auxiliary transport activities	0.770	0.759	0.768	0.768	0.760	0.837	0.774	0.739
Post and telecommunications	0.782	0.771	0.760	0.756	0.716	0.762	0.699	0.703
Financial intermediation	0.914	0.912	0.910	0.909	0.907	0.920	0.908	0.900
Real estate activities	0.968	0.967	0.965	0.963	0.966	0.968	0.963	0.963
Renting of M&Eq and other business activities	0.755	0.765	0.766	0.771	0.752	0.783	0.708	0.734
Public administration and defense; compulsory social security	0.833	0.826	0.827	0.825	0.813	0.837	0.796	0.799
Education	0.817	0.821	0.823	0.824	0.793	0.804	0.799	0.778
Health and social work	0.767	0.772	0.774	0.774	0.757	0.776	0.744	0.746
Other community, social, and personal services	0.935	0.932	0.929	0.929	0.935	0.946	0.934	0.930
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.260	0.264	0.264	0.266	0.259	0.247	0.257	0.279
Mining and quarrying	0.070	0.068	0.076	0.082	0.082	0.077	0.112	0.083
Food, beverages, and tobacco	0.420	0.421	0.422	0.424	0.439	0.418	0.479	0.472
Textiles and textile products	0.205	0.136	0.138	0.140	0.150	0.159	0.158	0.162
Leather, leather products, and footwear	0.993	0.795	0.138	0.941	0.206	0.435	0.222	0.210
Wood and products of wood and cork	0.341	0.304	0.316	0.323	0.348	0.352	0.420	0.373
Pulp, paper, paper products, printing, and publishing	0.341	0.304	0.316	0.323	0.351	0.361	0.578	0.383
Coke, refined petroleum, and nuclear fuel	0.057	0.079	0.112	0.135	0.066	0.064	0.093	0.068
Chemicals and chemical products	0.057	0.079	0.112	0.135	0.066	0.064	0.097	0.068
Rubber and plastics	0.315	0.288	0.308	0.323	0.334	0.334	0.562	0.360
Other nonmetallic minerals	0.315	0.288	0.308	0.323	0.334	0.334	0.562	0.360
Basic metals and fabricated metal	0.272	0.271	0.281	0.291	0.287	0.287	0.504	0.310
Machinery, nec	0.272	0.271	0.281	0.291	0.287	0.287	0.504	0.310
Electrical and optical equipment	0.272	0.271	0.281	0.291	0.287	0.287	0.504	0.310
Transport equipment	0.272	0.271	0.281	0.291	0.287	0.287	0.504	0.310
Manufacturing, nec; recycling	0.272	0.271	0.281	0.291	0.287	0.287	0.504	0.310
Electricity, gas, and water supply	0.164	0.165	0.183	0.195	0.191	0.191	0.190	0.206
Construction	0.451	0.413	0.424	0.430	0.465	0.460	0.496	0.501
Sale, maintenance, and repair	0.335	0.312	0.316	0.318	0.352	0.366	0.370	0.379
Wholesale trade and commission trade	0.190	0.181	0.188	0.191	0.203	0.211	0.211	0.219
Retail trade	0.190	0.181	0.188	0.191	0.203	0.208	0.211	0.200
Hotels and restaurants	0.305	0.315	0.314	0.316	0.323	0.315	0.329	0.348
Inland transport	0.130	0.146	0.156	0.160	0.134	0.135	0.197	0.143
Water transport	0.158	0.168	0.180	0.187	0.162	0.165	0.188	0.175
Air transport	0.245	0.243	0.266	0.277	0.240	0.243	0.396	0.261
Other supporting and auxiliary transport activities	0.271	0.282	0.268	0.268	0.269	0.297	0.245	0.285
Post and telecommunications	0.240	0.254	0.264	0.272	0.305	0.333	0.317	0.317
Financial intermediation	0.093	0.095	0.097	0.098	0.098	0.105	0.096	0.105
Real estate activities	0.033	0.034	0.036	0.038	0.035	0.036	0.038	0.038
Renting of M&Eq and other business activities	0.264	0.254	0.251	0.246	0.262	0.281	0.304	0.283
Public administration and defense; compulsory social security	0.179	0.186	0.184	0.188	0.197	0.207	0.212	0.212
Education	0.189	0.186	0.183	0.183	0.212	0.216	0.204	0.226
Health and social work	0.239	0.234	0.232	0.232	0.248	0.245	0.259	0.259
Other community, social, and personal services	0.071	0.073	0.076	0.077	0.069	0.074	0.070	0.074
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 1.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.286	1.282	1.286	1.281	1.309	1.308	1.291	1.267
Mining and quarrying	1.259	1.263	1.251	1.243	1.278	1.269	1.188	1.247
Food, beverages, and tobacco	1.444	1.447	1.447	1.441	1.430	1.427	1.321	1.360
Textiles and textile products	1.190	1.213	1.211	1.209	1.205	1.223	1.163	1.179
Leather, leather products, and footwear	1.002	1.051	1.211	1.209	2.603	1.262	1.051	1.083
Wood and products of wood and cork	1.467	1.513	1.494	1.485	1.469	1.493	1.293	1.409
Pulp, paper, paper products, printing, and publishing	1.467	1.513	1.494	1.485	1.445	1.476	1.009	1.391
Coke, refined petroleum, and nuclear fuel	1.708	1.678	1.633	1.603	1.718	1.724	1.650	1.699
Chemicals and chemical products	1.708	1.678	1.633	1.603	1.718	1.724	1.645	1.700
Rubber and plastics	1.633	1.695	1.660	1.631	1.629	1.652	1.151	1.577
Other nonmetallic minerals	1.633	1.695	1.660	1.631	1.629	1.652	1.151	1.577
Basic metals and fabricated metal	1.575	1.571	1.559	1.544	1.575	1.592	1.171	1.529
Machinery, nec	1.575	1.571	1.559	1.544	1.575	1.592	1.171	1.529
Electrical and optical equipment	1.575	1.571	1.559	1.544	1.575	1.592	1.171	1.529
Transport equipment	1.575	1.571	1.559	1.544	1.575	1.592	1.171	1.529
Manufacturing, nec; recycling	1.575	1.571	1.559	1.544	1.575	1.592	1.171	1.529
Electricity, gas, and water supply	1.678	1.679	1.652	1.638	1.654	1.683	1.618	1.620
Construction	1.725	1.783	1.767	1.756	1.710	1.724	1.615	1.635
Sale, maintenance, and repair	1.645	1.676	1.673	1.674	1.638	1.679	1.535	1.577
Wholesale trade and commission trade	1.405	1.417	1.406	1.404	1.399	1.427	1.340	1.365
Retail trade	1.405	1.417	1.406	1.404	1.410	1.433	1.340	1.345
Hotels and restaurants	1.373	1.360	1.364	1.359	1.355	1.361	1.323	1.304
Inland transport	1.734	1.702	1.684	1.681	1.769	1.804	1.604	1.737
Water transport	1.928	1.911	1.894	1.888	1.945	2.011	1.846	1.914
Air transport	2.100	2.102	2.064	2.049	2.129	2.199	1.818	2.092
Other supporting and auxiliary transport activities	1.980	1.948	1.983	1.988	2.058	2.198	1.980	1.994
Post and telecommunications	1.518	1.490	1.471	1.463	1.430	1.483	1.344	1.370
Financial intermediation	1.218	1.214	1.209	1.209	1.214	1.234	1.200	1.198
Real estate activities	1.114	1.111	1.107	1.102	1.110	1.113	1.104	1.104
Renting of M&Eq and other business activities	1.508	1.530	1.537	1.547	1.540	1.591	1.408	1.498
Public administration and defense; compulsory social security	1.444	1.429	1.435	1.432	1.428	1.465	1.370	1.394
Education	1.307	1.315	1.321	1.323	1.274	1.289	1.275	1.238
Health and social work	1.417	1.426	1.431	1.432	1.433	1.441	1.373	1.383
Other community, social, and personal services	1.171	1.165	1.161	1.161	1.183	1.199	1.142	1.171
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

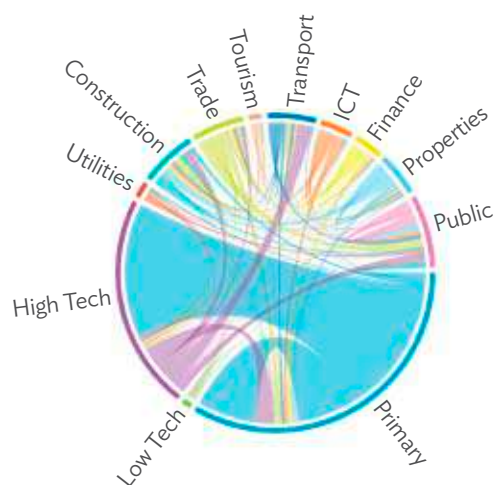
Source: Asian Development Bank Multi-Regional Input-Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

# 1.2

## Brunei Darussalam

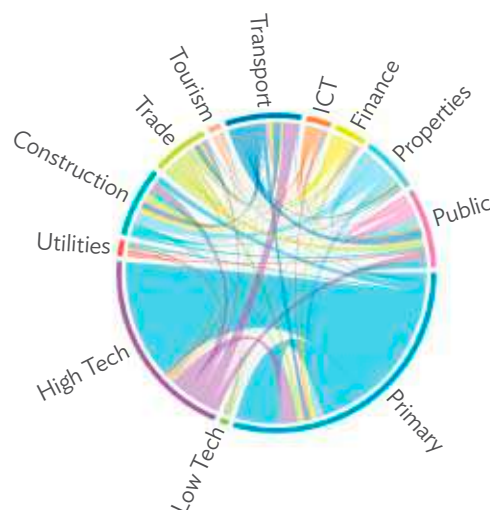
**Figure 1.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

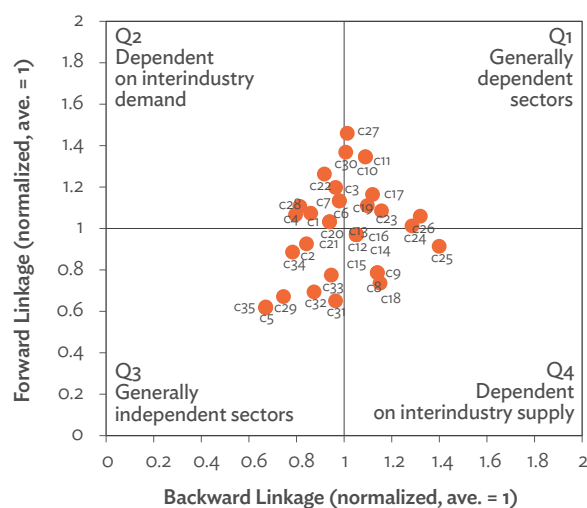
**Figure 1.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

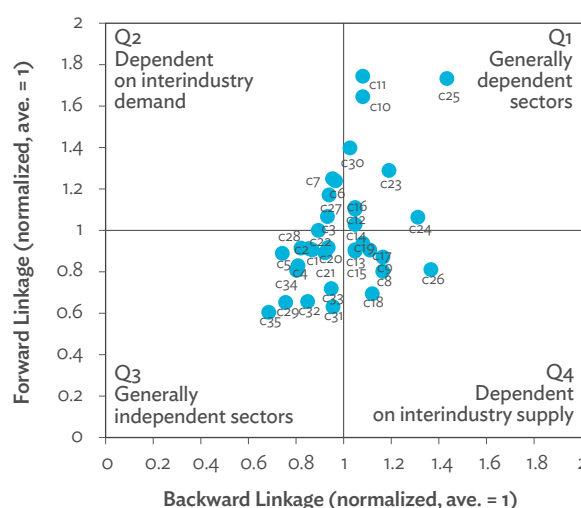
**Figure 1.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

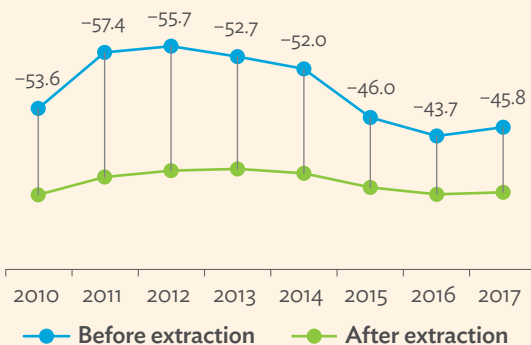
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**Figure 1.2.2b: Backward and Forward Linkages by Industry, 2017**

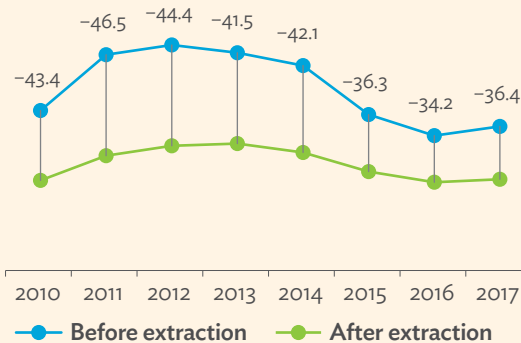


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

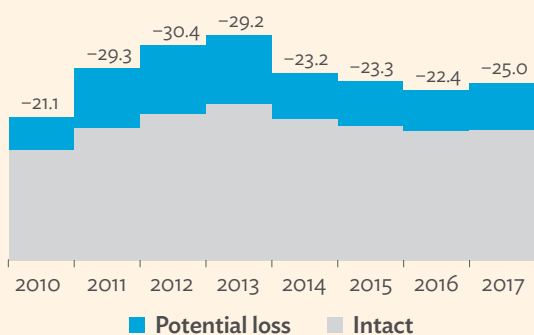
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**Box 1: Hypothetical Extraction of Mining and Quarrying Industry in Brunei Darussalam****Figure 1.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**

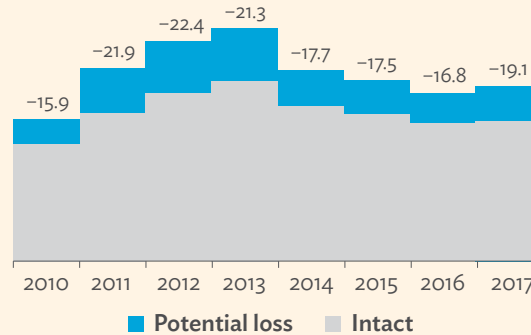
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**

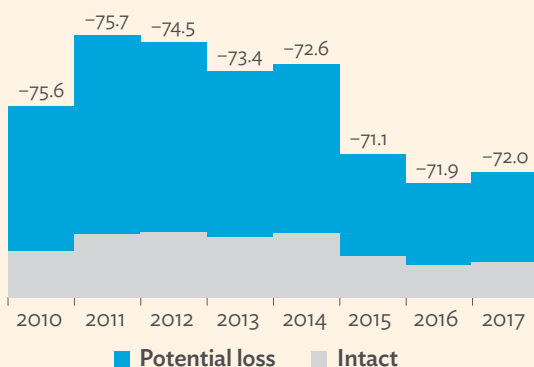
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**

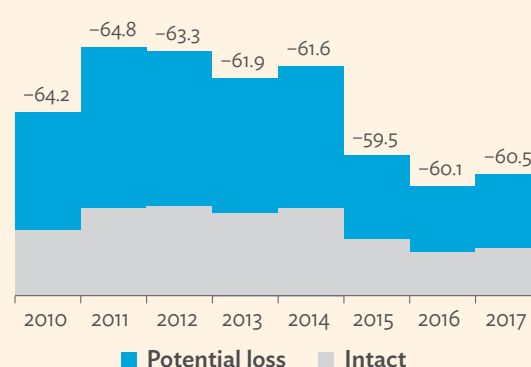
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 1.2.1: Input-Output Backward Linkage**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.860	0.854	0.860	0.862	0.848	0.856	0.961	0.868
Mining and quarrying	0.842	0.841	0.836	0.836	0.829	0.830	0.885	0.854
Food, beverages, and tobacco	0.965	0.964	0.968	0.969	0.927	0.934	0.984	0.932
Textiles and textile products	0.796	0.808	0.810	0.813	0.781	0.800	0.866	0.808
Leather, leather products, and footwear	0.670	0.700	0.810	0.813	1.687	0.826	0.782	0.742
Wood and products of wood and cork	0.981	1.008	0.999	0.999	0.952	0.977	0.963	0.966
Pulp, paper, paper products, printing, and publishing	0.981	1.008	0.999	0.999	0.937	0.966	0.751	0.953
Coke, refined petroleum, and nuclear fuel	1.142	1.118	1.092	1.078	1.114	1.128	1.228	1.164
Chemicals and chemical products	1.142	1.118	1.092	1.078	1.114	1.128	1.225	1.165
Rubber and plastics	1.092	1.129	1.110	1.096	1.056	1.081	0.857	1.080
Other nonmetallic minerals	1.092	1.129	1.110	1.096	1.056	1.081	0.857	1.080
Basic metals and fabricated metal	1.053	1.046	1.042	1.038	1.021	1.041	0.872	1.048
Machinery, nec	1.053	1.046	1.042	1.038	1.021	1.041	0.872	1.048
Electrical and optical equipment	1.053	1.046	1.042	1.038	1.021	1.041	0.872	1.048
Transport equipment	1.053	1.046	1.042	1.038	1.021	1.041	0.872	1.048
Manufacturing, nec; recycling	1.053	1.046	1.042	1.038	1.021	1.041	0.872	1.048
Electricity, gas, and water supply	1.122	1.118	1.105	1.101	1.073	1.101	1.205	1.110
Construction	1.154	1.187	1.182	1.181	1.108	1.128	1.202	1.120
Sale, maintenance, and repair	1.100	1.116	1.119	1.126	1.062	1.099	1.143	1.081
Wholesale trade and commission trade	0.940	0.943	0.940	0.944	0.907	0.934	0.998	0.935
Retail trade	0.940	0.943	0.940	0.944	0.914	0.937	0.998	0.921
Hotels and restaurants	0.918	0.906	0.912	0.914	0.879	0.890	0.985	0.894
Inland transport	1.160	1.134	1.126	1.131	1.147	1.180	1.195	1.190
Water transport	1.289	1.272	1.267	1.270	1.261	1.315	1.374	1.312
Air transport	1.404	1.400	1.380	1.378	1.380	1.439	1.353	1.434
Other supporting and auxiliary transport activities	1.324	1.297	1.326	1.337	1.334	1.438	1.474	1.367
Post and telecommunications	1.015	0.992	0.984	0.984	0.927	0.970	1.000	0.939
Financial intermediation	0.814	0.808	0.809	0.813	0.787	0.807	0.894	0.821
Real estate activities	0.745	0.740	0.741	0.741	0.720	0.728	0.822	0.756
Renting of M&Eq and other business activities	1.008	1.019	1.028	1.040	0.998	1.041	1.048	1.027
Public administration and defense; compulsory social security	0.965	0.952	0.960	0.963	0.926	0.959	1.020	0.955
Education	0.874	0.876	0.883	0.889	0.826	0.843	0.949	0.849
Health and social work	0.947	0.950	0.957	0.963	0.929	0.943	1.022	0.948
Other community, social, and personal services	0.783	0.776	0.776	0.780	0.767	0.784	0.850	0.802
Private households with employed persons	0.669	0.666	0.669	0.672	0.648	0.654	0.745	0.685
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.077	0.924	1.025	1.030	1.020	1.013	1.043	0.906
Mining and quarrying	0.928	0.908	0.898	0.915	0.986	1.017	1.004	0.912
Food, beverages, and tobacco	1.202	1.173	1.173	1.210	1.206	1.201	1.216	1.067
Textiles and textile products	1.070	0.994	1.117	1.127	0.919	0.929	0.919	0.829
Leather, leather products, and footwear	0.621	0.604	1.058	1.032	0.644	0.675	0.697	0.889
Wood and products of wood and cork	1.137	1.035	0.994	0.991	1.032	1.009	1.073	1.239
Pulp, paper, paper products, printing, and publishing	1.137	1.035	1.002	0.996	1.047	1.021	1.087	1.249
Coke, refined petroleum, and nuclear fuel	0.788	0.750	0.754	0.780	0.824	0.902	0.866	0.802
Chemicals and chemical products	0.788	0.745	0.749	0.774	0.818	0.897	0.864	0.871
Rubber and plastics	1.351	1.346	1.313	1.296	1.311	1.301	1.316	1.645
Other nonmetallic minerals	1.351	1.405	1.366	1.351	1.374	1.356	1.372	1.744
Basic metals and fabricated metal	0.973	0.954	0.921	0.913	0.968	0.938	0.994	1.110
Machinery, nec	0.973	1.171	1.093	1.056	0.832	0.883	1.048	0.900
Electrical and optical equipment	0.973	1.169	1.091	1.053	0.915	0.965	1.176	1.029
Transport equipment	0.973	1.215	1.125	1.119	0.836	0.887	1.054	0.907
Manufacturing, nec; recycling	0.973	0.943	0.907	0.885	0.963	0.934	0.989	1.102
Electricity, gas, and water supply	1.168	1.205	1.192	1.207	1.122	1.113	1.095	0.905
Construction	0.737	0.731	0.714	0.716	0.758	0.751	0.814	0.694
Sale, maintenance, and repair	1.114	1.069	1.044	1.047	1.077	1.058	1.098	0.937
Wholesale trade and commission trade	1.035	1.046	1.015	1.010	1.059	1.030	1.069	0.918
Retail trade	1.035	1.048	1.017	1.012	1.020	0.999	1.036	0.892
Hotels and restaurants	1.267	1.238	1.216	1.237	1.216	1.206	1.159	1.000
Inland transport	1.088	1.068	1.016	1.047	1.024	1.061	1.078	1.289
Water transport	1.015	1.012	1.015	1.002	1.233	1.199	0.773	1.064
Air transport	0.916	0.937	0.941	0.924	1.361	1.305	0.803	1.733
Other supporting and auxiliary transport activities	1.062	1.019	1.032	1.005	0.975	1.036	1.064	0.811
Post and telecommunications	1.465	1.418	1.401	1.401	1.399	1.388	1.377	1.171
Financial intermediation	1.110	1.104	1.095	1.098	1.129	1.090	1.045	0.915
Real estate activities	0.672	0.678	0.677	0.687	0.703	0.699	0.719	0.652
Renting of M&Eq and other business activities	1.373	1.432	1.420	1.404	1.504	1.495	1.533	1.398
Public administration and defense; compulsory social security	0.651	0.637	0.638	0.650	0.672	0.663	0.682	0.631
Education	0.694	0.685	0.686	0.697	0.712	0.694	0.685	0.657
Health and social work	0.776	0.768	0.771	0.778	0.789	0.746	0.689	0.719
Other community, social, and personal services	0.888	0.930	0.925	0.936	0.913	0.898	0.883	0.807
Private households with employed persons	0.618	0.603	0.602	0.614	0.641	0.641	0.679	0.605
	lowest linkage	<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div> highest linkage		

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

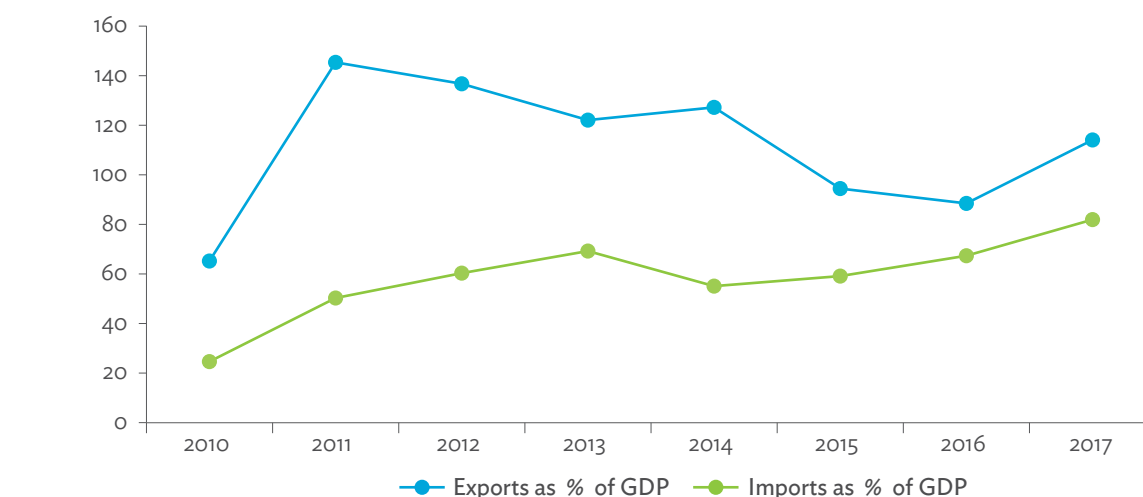
Source: Asian Development Bank Multi-Regional Input-Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

# 1.3

## Brunei Darussalam

**Figure 1.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

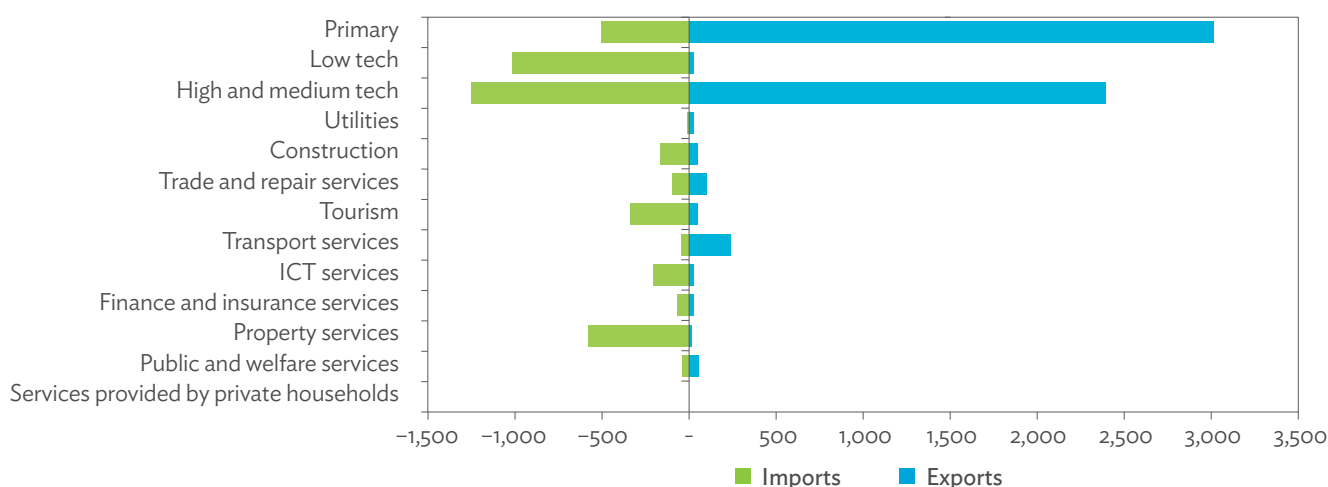


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

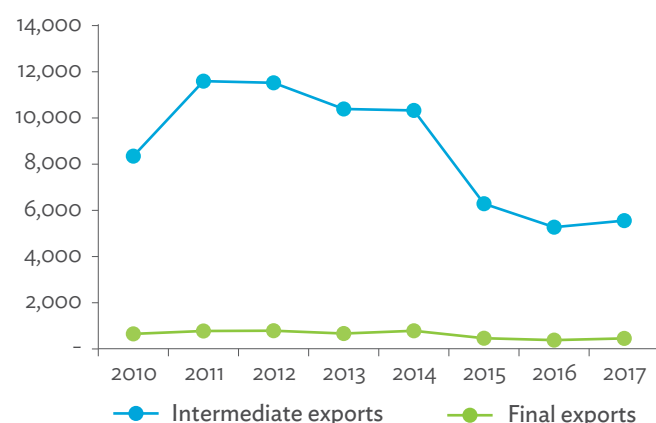


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

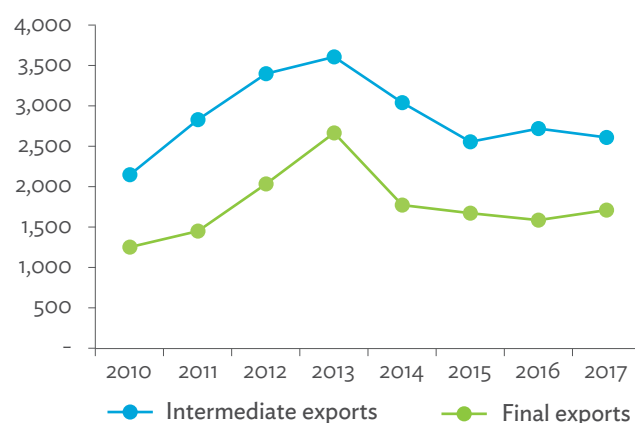


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 1.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

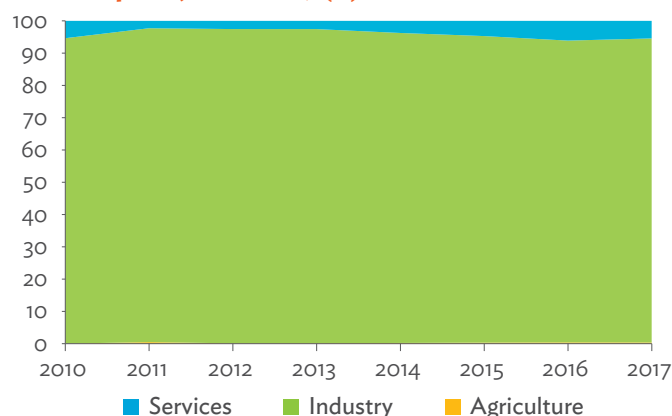


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

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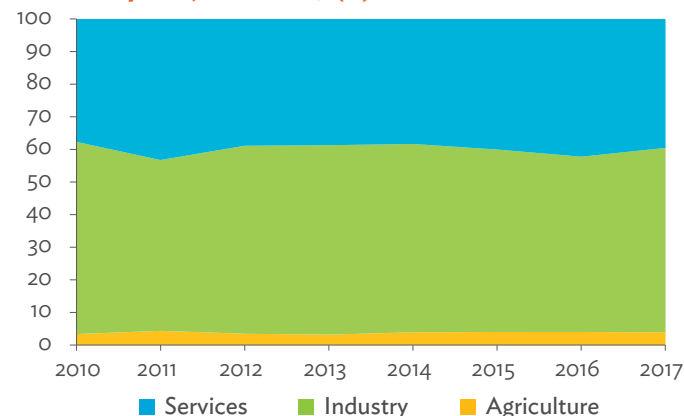
**Figure 1.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

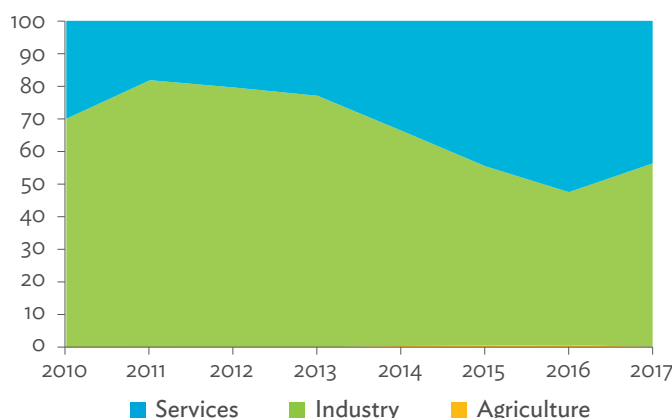
**Figure 1.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

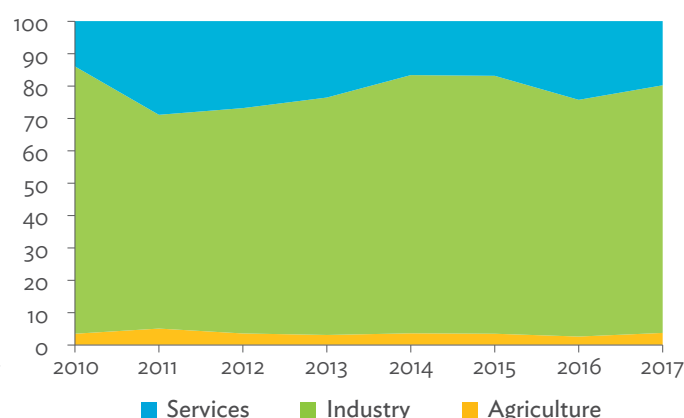
**Figure 1.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**

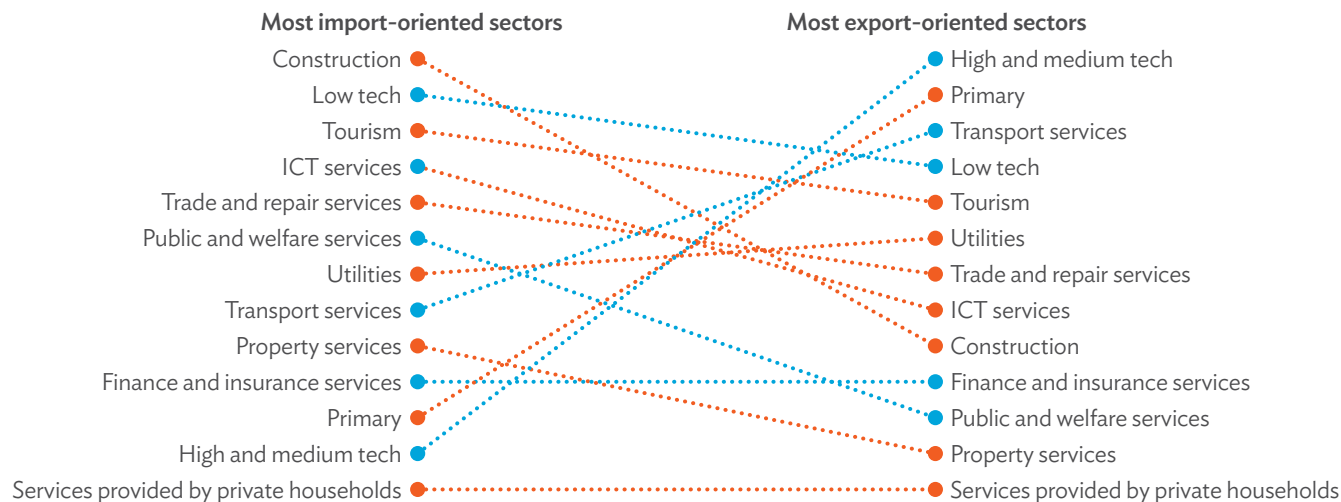


Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 1.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

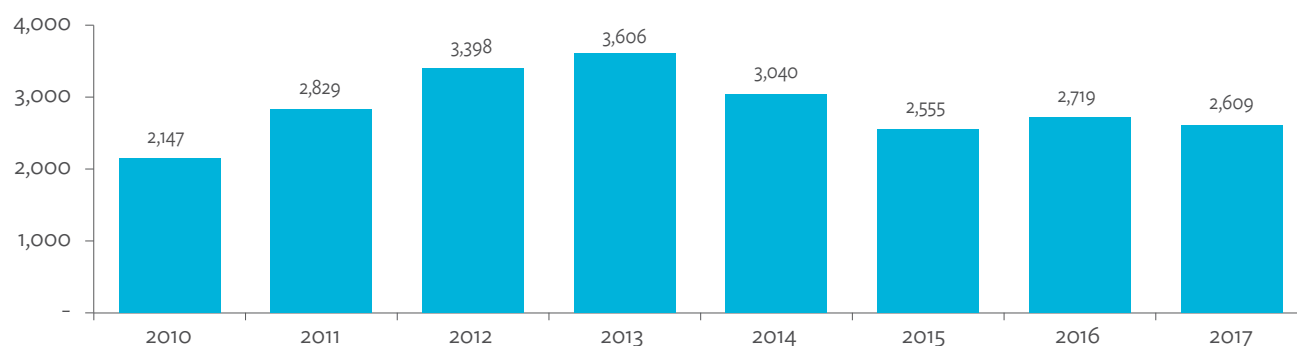


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

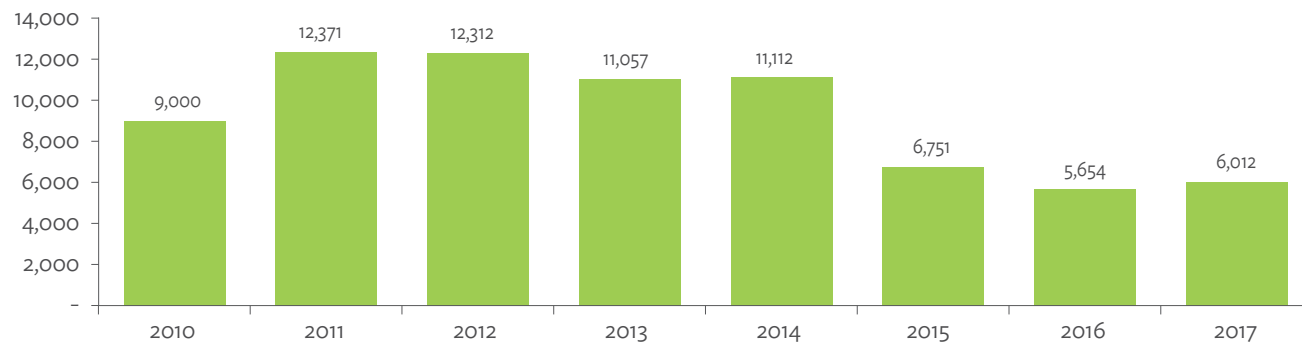


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 1.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

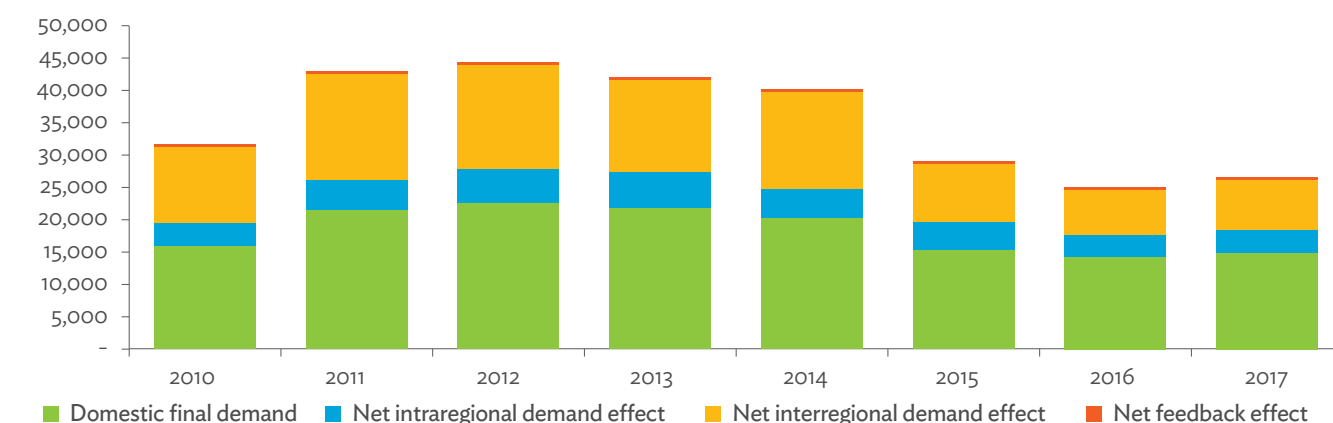


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

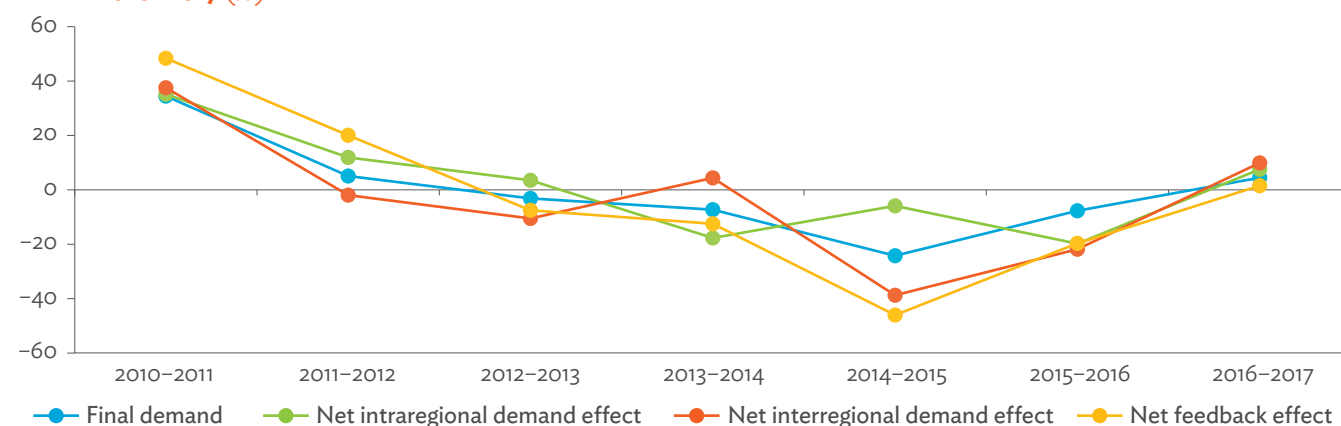


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

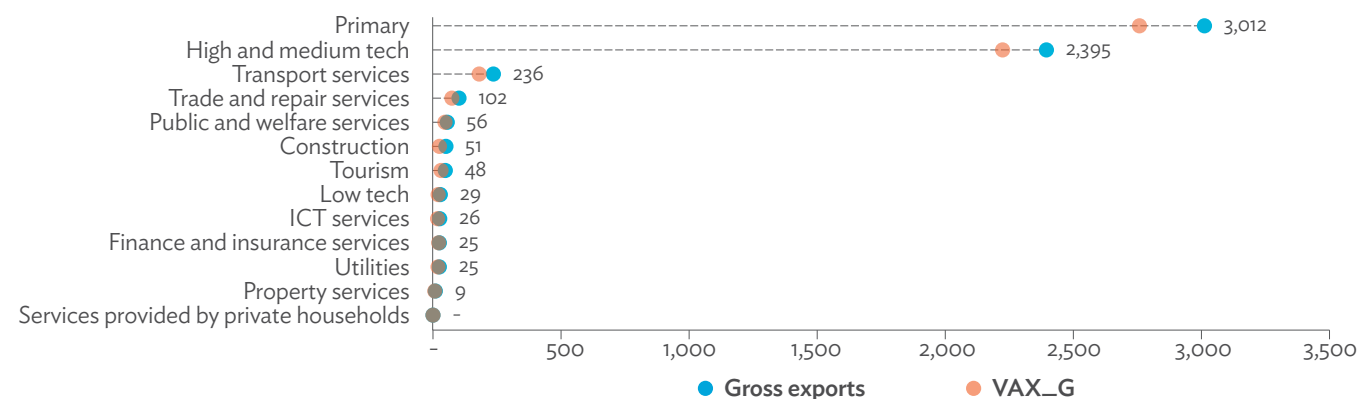
**Figure 1.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

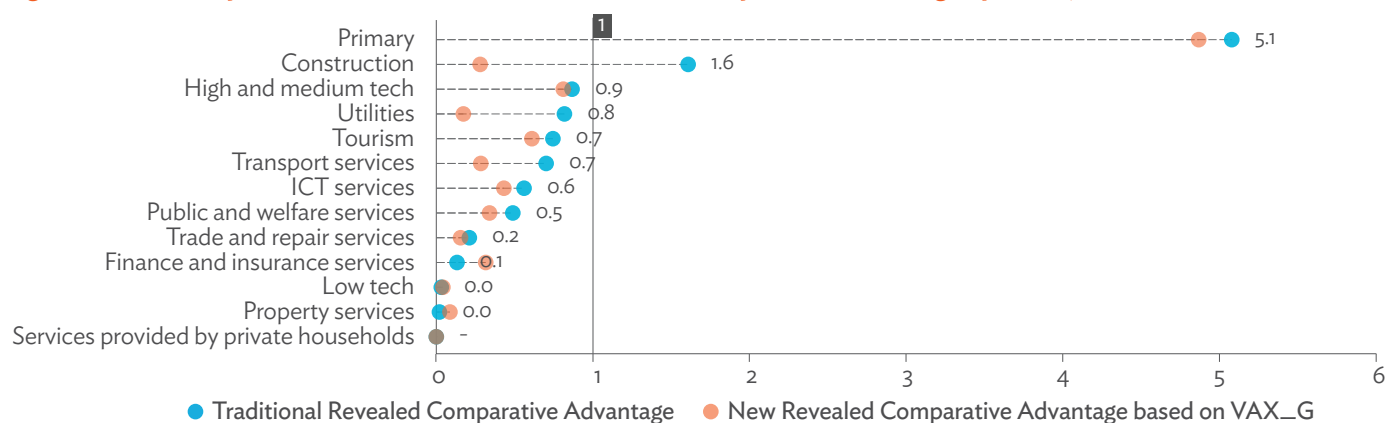


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 1.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	5,822	8,334	8,447	7,661	6,898	4,497	4,160	4,487
Low tech	1,373	1,919	2,360	2,424	1,915	1,808	1,589	1,785
High and medium tech	3,651	5,541	5,736	5,328	5,037	3,116	2,235	2,674
Business service	2,040	2,169	2,442	2,780	2,547	2,403	2,648	2,469
Personal service	3,145	3,595	3,668	3,749	3,946	3,591	3,600	3,452
Intraregional effects (M1)								
Primary	895	1,400	1,519	1,456	1,162	1,031	887	956
Low tech	346	477	524	508	378	357	384	311
High and medium tech	536	804	901	963	684	754	503	512
Business service	1,512	1,786	2,070	2,262	2,054	1,926	1,580	1,691
Personal service	206	254	271	282	226	170	46	186

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	7,372	10,231	9,812	8,575	8,826	5,250	4,376	4,662
Low tech	111	185	170	147	212	143	122	130
High and medium tech	3,532	5,224	5,313	4,933	4,879	3,081	2,151	2,442
Business service	1,082	999	1,015	955	1,327	869	668	785
Personal service	69	93	98	73	85	48	24	51
Feedback effects (M3)								
Primary	0.31	0.45	0.54	0.49	0.42	0.22	0.19	0.19
Low tech	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
High and medium tech	0.18	0.29	0.35	0.33	0.28	0.15	0.11	0.12
Business service	0.05	0.05	0.06	0.06	0.07	0.04	0.03	0.03
Personal service	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.2862	0.2823	0.2863	0.2814	0.3085	0.3080	0.2911	0.2667
Mining and quarrying	0.2594	0.2625	0.2506	0.2435	0.2783	0.2687	0.1883	0.2467
Food, beverages, and tobacco	0.4439	0.4473	0.4473	0.4412	0.4303	0.4271	0.3215	0.3600
Textiles and textile products	0.1904	0.2130	0.2110	0.2094	0.2046	0.2230	0.1632	0.1795
Leather, leather products, and footwear	0.0016	0.0505	0.2110	0.2094	1.6026	0.2620	0.0506	0.0831
Wood and products of wood and cork	0.4674	0.5131	0.4939	0.4852	0.4690	0.4934	0.2927	0.4093
Pulp, paper, paper products, printing, and publishing	0.4674	0.5131	0.4939	0.4852	0.4453	0.4760	0.0087	0.3912
Coke, refined petroleum, and nuclear fuel	0.7081	0.6783	0.6327	0.6025	0.7178	0.7238	0.6495	0.6990
Chemicals and chemical products	0.7081	0.6783	0.6327	0.6025	0.7178	0.7238	0.6450	0.7001
Rubber and plastics	0.6327	0.6952	0.6598	0.6307	0.6295	0.6523	0.1513	0.5767
Other nonmetallic minerals	0.6327	0.6952	0.6598	0.6307	0.6295	0.6523	0.1513	0.5767
Basic metals and fabricated metal	0.5753	0.5712	0.5586	0.5439	0.5749	0.5915	0.1715	0.5294
Machinery, nec	0.5753	0.5712	0.5586	0.5439	0.5749	0.5915	0.1715	0.5294
Electrical and optical equipment	0.5753	0.5712	0.5586	0.5439	0.5749	0.5915	0.1715	0.5294
Transport equipment	0.5753	0.5712	0.5586	0.5439	0.5749	0.5915	0.1715	0.5294
Manufacturing, nec; recycling	0.5753	0.5712	0.5586	0.5439	0.5749	0.5915	0.1715	0.5294
Electricity, gas, and water supply	0.6777	0.6785	0.6520	0.6377	0.6545	0.6827	0.6180	0.6200
Construction	0.7252	0.7828	0.7674	0.7565	0.7096	0.7244	0.6149	0.6347
Sale, maintenance, and repair	0.6445	0.6759	0.6735	0.6743	0.6376	0.6793	0.5349	0.5774
Wholesale trade and commission trade	0.4053	0.4165	0.4063	0.4037	0.3988	0.4270	0.3402	0.3648
Retail trade	0.4053	0.4165	0.4063	0.4037	0.4103	0.4330	0.3402	0.3446
Hotels and restaurants	0.3728	0.3605	0.3636	0.3588	0.3551	0.3605	0.3231	0.3044
Inland transport	0.7345	0.7025	0.6840	0.6814	0.7690	0.8045	0.6045	0.7372
Water transport	0.9280	0.9107	0.8942	0.8883	0.9453	1.0105	0.8455	0.9144
Air transport	1.0997	1.1022	1.0639	1.0495	1.1286	1.1991	0.8175	1.0924
Other supporting and auxiliary transport activities	0.9801	0.9484	0.9830	0.9879	1.0580	1.1976	0.9801	0.9942
Post and telecommunications	0.5176	0.4900	0.4710	0.4632	0.4302	0.4834	0.3437	0.3698
Financial intermediation	0.2175	0.2135	0.2094	0.2090	0.2141	0.2335	0.2000	0.1976
Real estate activities	0.1138	0.1109	0.1073	0.1018	0.1099	0.1133	0.1035	0.1036
Renting of M&Eq and other business activities	0.5081	0.5296	0.5366	0.5473	0.5396	0.5912	0.4078	0.4980
Public administration and defense; compulsory social security	0.4435	0.4288	0.4349	0.4318	0.4276	0.4654	0.3705	0.3941
Education	0.3072	0.3150	0.3209	0.3228	0.2739	0.2887	0.2750	0.2385
Health and social work	0.4167	0.4262	0.4314	0.4324	0.4330	0.4414	0.3728	0.3833
Other community, social, and personal services	0.1713	0.1649	0.1607	0.1607	0.1825	0.1986	0.1421	0.1710
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.6429	0.6562	0.6566	0.6713	0.6571	0.6275	0.6456	0.7069
Mining and quarrying	0.1628	0.1582	0.1772	0.1920	0.1924	0.1818	0.2632	0.1960
Food, beverages, and tobacco	1.0298	1.0409	1.0451	1.0655	1.1080	1.0564	1.2005	1.1880
Textiles and textile products	0.4725	0.3422	0.3441	0.3640	0.3837	0.4054	0.4001	0.4128
Leather, leather products, and footwear	1.9454	1.9195	0.3341	1.9071	0.4890	0.8491	0.4508	0.4002
Wood and products of wood and cork	0.8313	0.7592	0.7901	0.8225	0.8879	0.9009	1.0709	0.9591
Pulp, paper, paper products, printing, and publishing	0.8318	0.7600	0.7911	0.8240	0.8993	0.9265	1.4922	0.9861
Coke, refined petroleum, and nuclear fuel	0.1310	0.1725	0.2388	0.2909	0.1493	0.1469	0.2122	0.1565
Chemicals and chemical products	0.1311	0.1725	0.2388	0.2908	0.1493	0.1469	0.2197	0.1566
Rubber and plastics	0.7916	0.7209	0.7714	0.8281	0.8613	0.8664	1.4741	0.9429
Other nonmetallic minerals	0.7905	0.7206	0.7723	0.8276	0.8606	0.8648	1.4779	0.9383
Basic metals and fabricated metal	0.6588	0.6565	0.6801	0.7179	0.7099	0.7140	1.2533	0.7748
Machinery, nec	0.6577	0.6556	0.6789	0.7167	0.7090	0.7128	1.2514	0.7727
Electrical and optical equipment	0.6578	0.6559	0.6791	0.7169	0.7092	0.7130	1.2516	0.7738
Transport equipment	0.6566	0.6551	0.6779	0.7164	0.7084	0.7118	1.2459	0.7746
Manufacturing, nec; recycling	0.6567	0.6543	0.6771	0.7155	0.7075	0.7106	1.2435	0.7710
Electricity, gas, and water supply	0.3861	0.3846	0.4251	0.4592	0.4543	0.4576	0.4517	0.4905
Construction	1.0541	0.9823	1.0152	1.0439	1.1362	1.1240	1.2000	1.2214
Sale, maintenance, and repair	0.7801	0.7329	0.7444	0.7674	0.8534	0.8884	0.8843	0.9215
Wholesale trade and commission trade	0.4491	0.4307	0.4460	0.4615	0.4948	0.5162	0.5081	0.5336
Retail trade	0.4487	0.4304	0.4455	0.4610	0.4934	0.5073	0.5065	0.4886
Hotels and restaurants	0.7473	0.7715	0.7718	0.7890	0.8123	0.7916	0.8175	0.8722
Inland transport	0.2894	0.3182	0.3390	0.3514	0.3047	0.3059	0.4300	0.3234
Water transport	0.3646	0.3843	0.4070	0.4267	0.3779	0.3855	0.4332	0.4074
Air transport	0.5665	0.5602	0.6095	0.6416	0.5663	0.5751	0.9246	0.6187
Other supporting and auxiliary transport activities	0.6148	0.6399	0.6077	0.6156	0.6229	0.6889	0.5605	0.6565
Post and telecommunications	0.5626	0.5858	0.6100	0.6375	0.7158	0.7832	0.7338	0.7401
Financial intermediation	0.2090	0.2132	0.2194	0.2250	0.2264	0.2410	0.2183	0.2411
Real estate activities	0.0753	0.0784	0.0834	0.0895	0.0838	0.0849	0.0888	0.0891
Renting of M&Eq and other business activities	0.5535	0.5368	0.5313	0.5300	0.5657	0.6077	0.6456	0.6086
Public administration and defense; compulsory social security	0.4023	0.4218	0.4219	0.4347	0.4583	0.4819	0.4896	0.4887
Education	0.4165	0.4118	0.4108	0.4184	0.4851	0.4933	0.4620	0.5138
Health and social work	0.5435	0.5353	0.5389	0.5469	0.5775	0.5722	0.5935	0.6039
Other community, social, and personal services	0.1649	0.1684	0.1748	0.1797	0.1624	0.1732	0.1588	0.1739
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.3.5: Net Feedback Multipliers (M3), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Textiles and textile products	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Leather, leather products, and footwear	0.0002	0.0007	0.0001	0.0002	0.0001	0.0001	0.0000	0.0000
Wood and products of wood and cork	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Pulp, paper, paper products, printing, and publishing	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Other nonmetallic minerals	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Basic metals and fabricated metal	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Machinery, nec	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Electrical and optical equipment	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Transport equipment	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Manufacturing, nec; recycling	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Electricity, gas, and water supply	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Construction	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Sale, maintenance, and repair	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Wholesale trade and commission trade	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Retail trade	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Hotels and restaurants	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0001
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Air transport	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0001	0.0000
Other supporting and auxiliary transport activities	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
Post and telecommunications	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Education	0.0000	0.0001	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
Health and social work	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	4,845	4,507	6,625	6,165	6,377	5,887	5,594	5,131	5,496	5,038	3,217	2,965	2,905	2,577	3,012	2,758
Low tech	14	9	40	29	30	20	28	18	48	34	28	20	30	20	29	20
High and medium tech	3,483	3,278	5,273	4,849	5,424	4,808	4,998	4,316	4,827	4,490	2,927	2,728	2,122	1,910	2,395	2,224
Utilities	0	0	0	0	0	0	0	0	27	22	23	19	25	20	25	20
Construction	14	8	26	15	26	15	18	10	63	34	53	29	50	25	51	25
Trade and repair services	94	73	75	57	74	56	69	52	131	97	107	78	107	78	102	74
Tourism	12	8	21	14	27	19	28	19	59	40	48	33	49	33	48	31
Transport services	437	342	215	166	253	195	255	198	314	248	231	180	245	187	236	180
ICT services	7	6	8	6	8	6	7	5	34	24	25	17	27	19	26	18
Finance and insurance services	14	13	18	16	18	17	17	15	28	25	23	20	26	23	25	22
Property services	49	36	17	13	18	14	18	14	14	11	11	8	10	7	9	7
Public and welfare services	31	25	53	45	55	46	25	21	71	60	58	49	58	49	56	47
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	4.951	4.566	4.406	4.082	4.258	4.095	4.388	4.187	4.560	4.381	4.920	4.704	5.437	5.009	5.076	4.866
Low tech	0.011	0.022	0.023	0.033	0.017	0.025	0.017	0.024	0.029	0.038	0.028	0.035	0.035	0.043	0.032	0.042
High and medium tech	0.827	0.749	0.912	0.824	0.950	0.874	0.982	0.911	0.943	0.857	0.935	0.874	0.819	0.766	0.866	0.810
Utilities	0.003	0.109	0.003	0.097	0.004	0.097	0.003	0.101	0.524	0.152	0.702	0.180	0.737	0.187	0.818	0.173
Construction	0.400	0.121	0.546	0.159	0.522	0.153	0.303	0.125	1.101	0.228	1.484	0.291	1.436	0.302	1.607	0.280
Trade and repair services	0.134	0.129	0.078	0.098	0.075	0.093	0.080	0.096	0.150	0.139	0.197	0.149	0.235	0.166	0.211	0.155
Tourism	0.121	0.383	0.158	0.328	0.212	0.338	0.236	0.374	0.492	0.525	0.665	0.641	0.707	0.611	0.744	0.610
Transport services	0.813	0.225	0.311	0.116	0.364	0.139	0.417	0.174	0.508	0.225	0.606	0.212	0.777	0.269	0.701	0.284
ICT services	0.124	0.518	0.105	0.374	0.096	0.357	0.097	0.347	0.442	0.503	0.528	0.461	0.651	0.517	0.560	0.431
Finance and insurance services	0.050	0.292	0.049	0.246	0.051	0.245	0.051	0.243	0.083	0.307	0.108	0.315	0.141	0.329	0.132	0.315
Property services	0.083	0.083	0.021	0.068	0.023	0.073	0.024	0.076	0.018	0.093	0.021	0.084	0.023	0.076	0.020	0.087
Public and welfare services	0.184	0.185	0.248	0.216	0.248	0.225	0.116	0.183	0.336	0.274	0.429	0.285	0.486	0.247	0.488	0.340
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

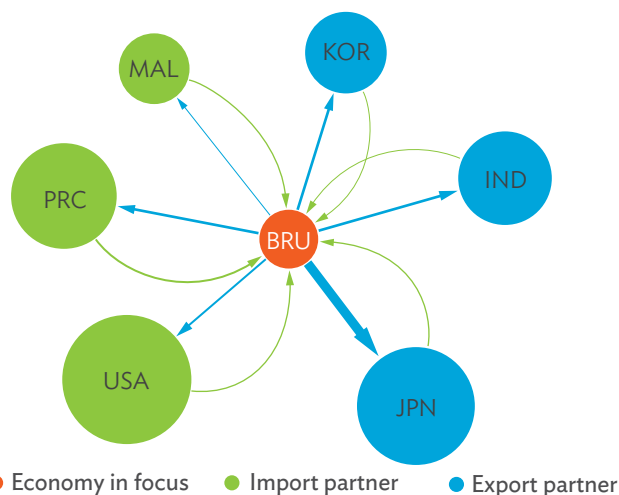


# 1.4

## GLOBAL VALUE CHAIN INDICATORS

### Brunei Darussalam

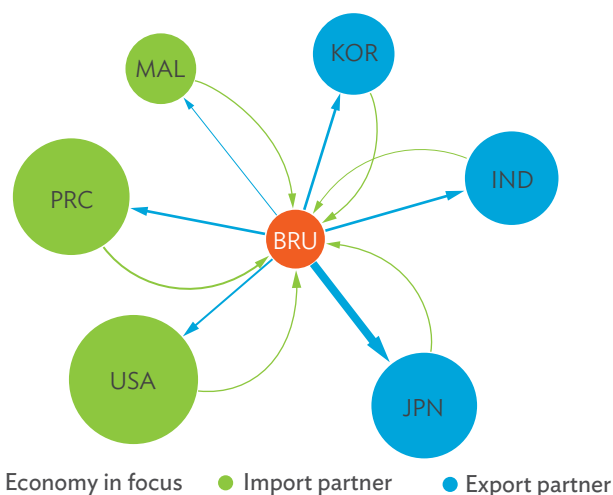
**Figure 1.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



BRU = Brunei Darussalam, IND = India, JPN = Japan, KOR = Republic of Korea, MAL = Malaysia, PRC = People's Republic of China, USA = United State.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



BRU = Brunei Darussalam, IND = India, JPN = Japan, KOR = Republic of Korea, MAL = Malaysia, PRC = People's Republic of China, USA = United State.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

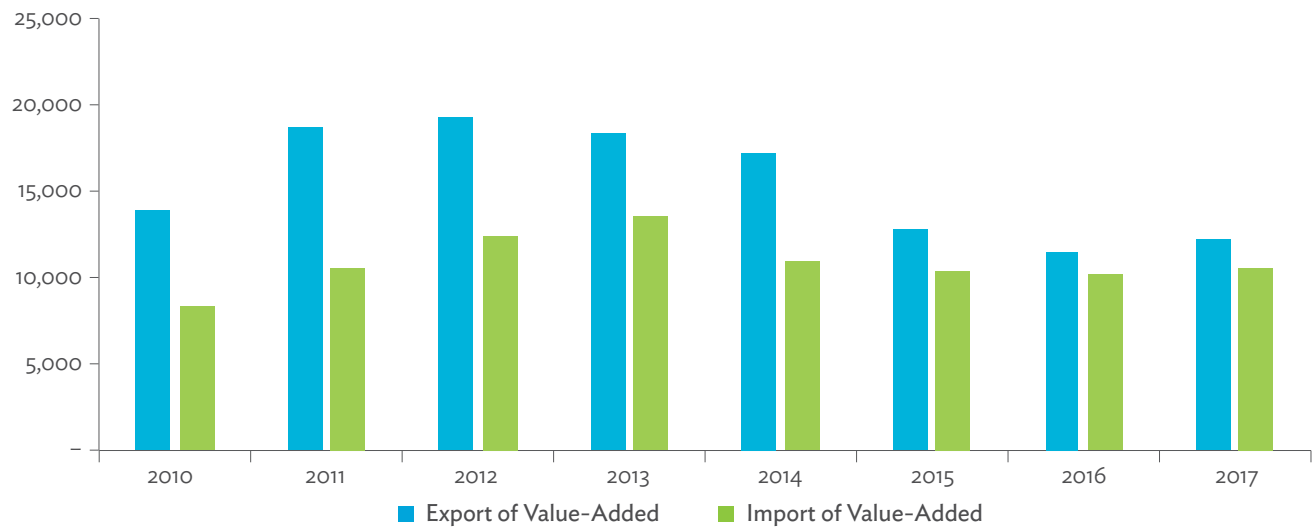
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**Figure 1.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

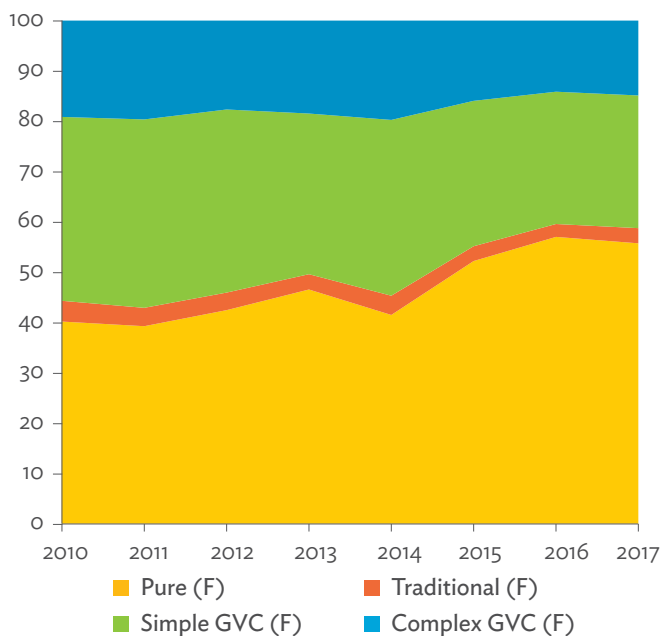
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**Figure 1.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

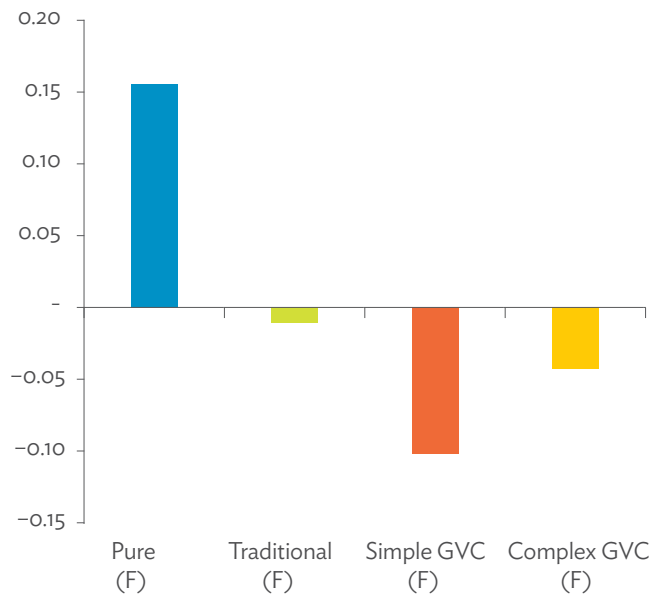
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**Figure 1.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

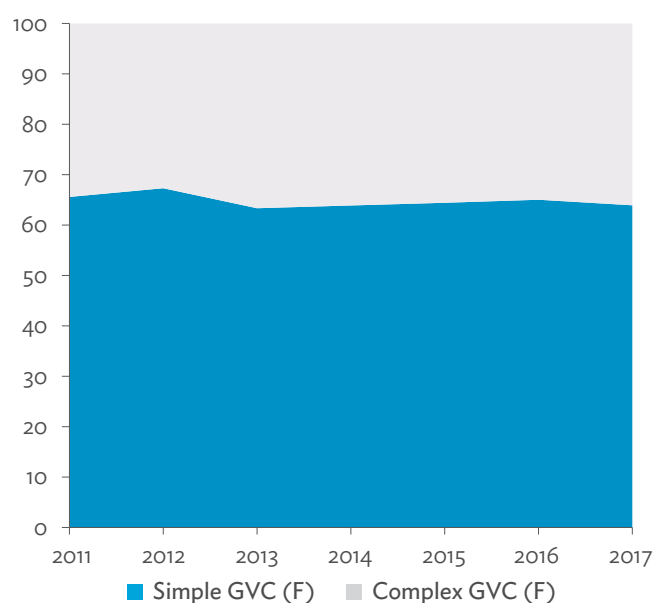
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

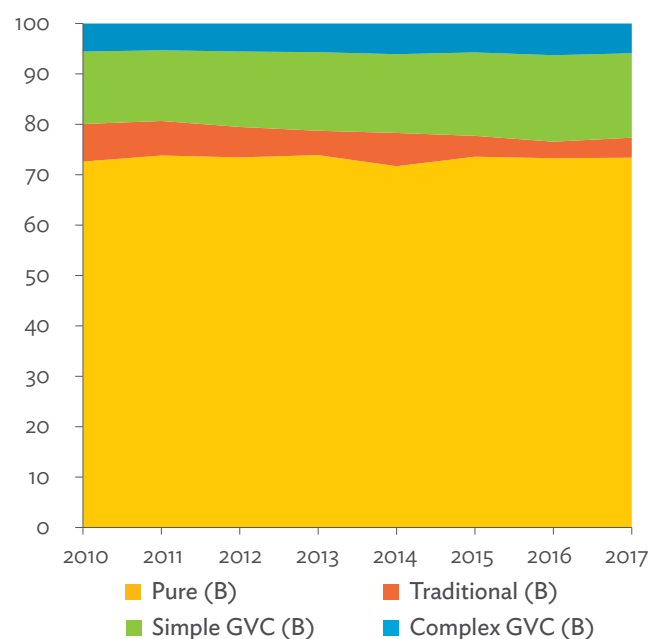


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

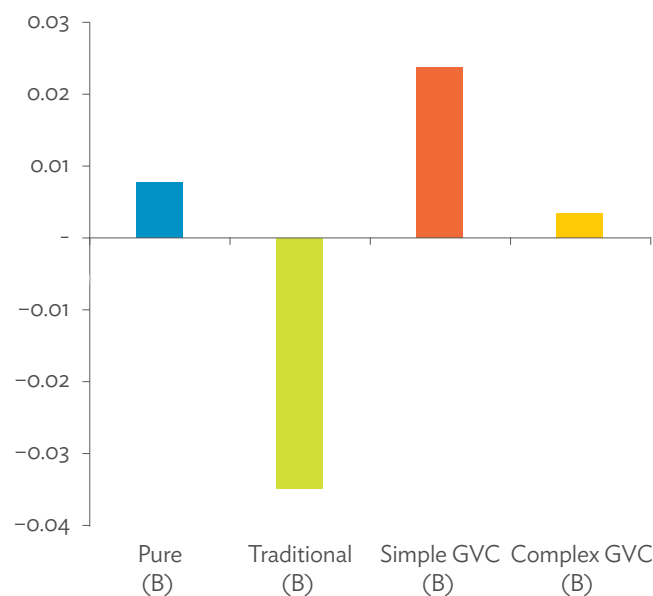


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



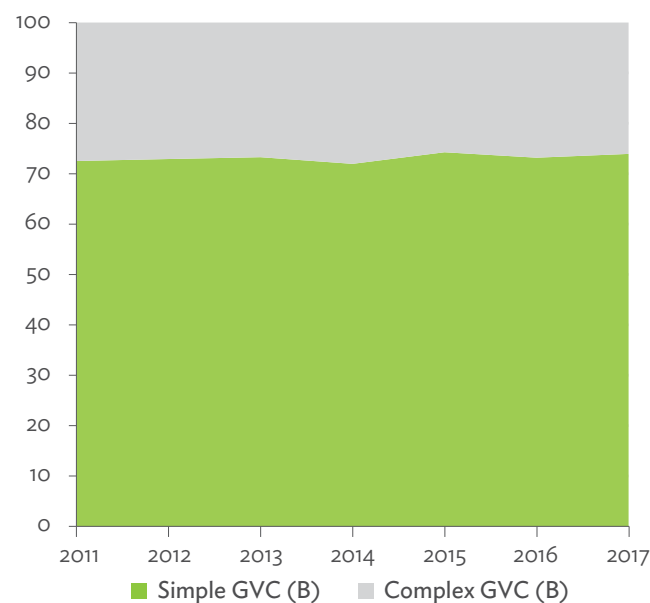
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

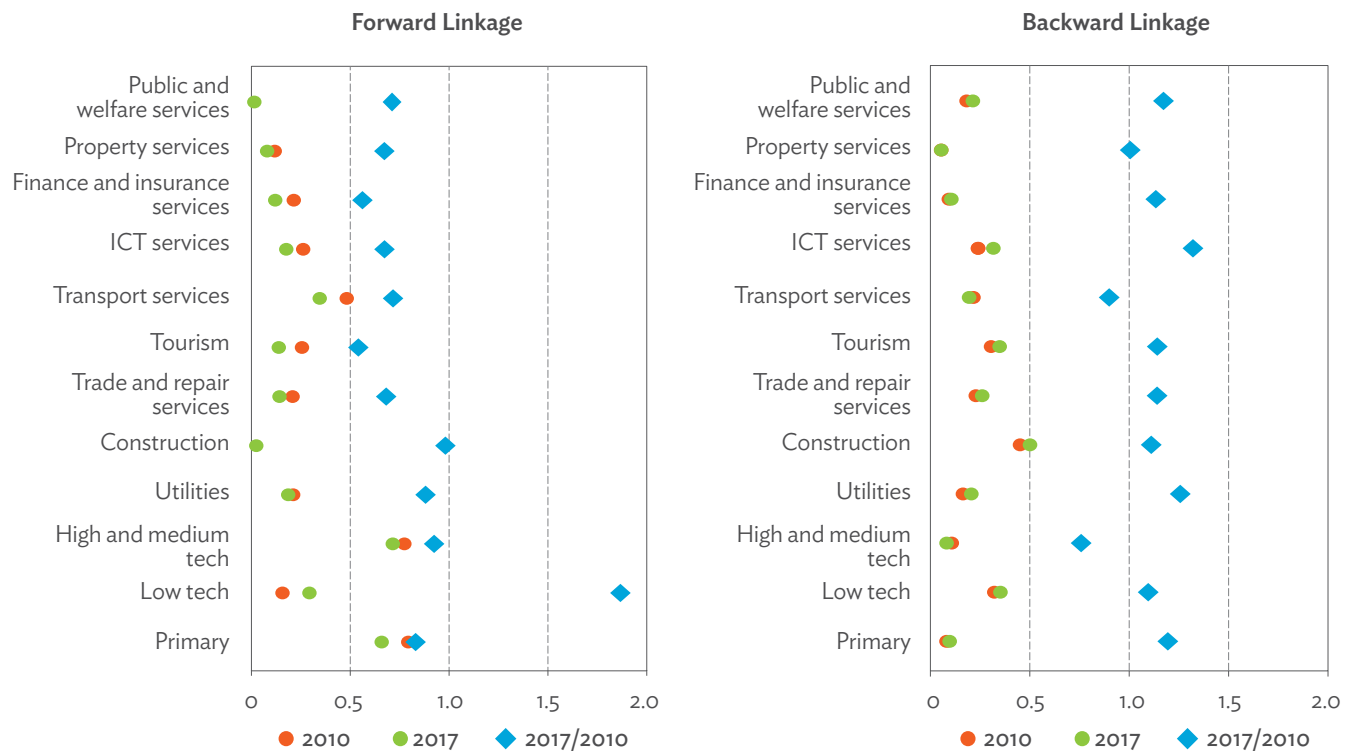


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

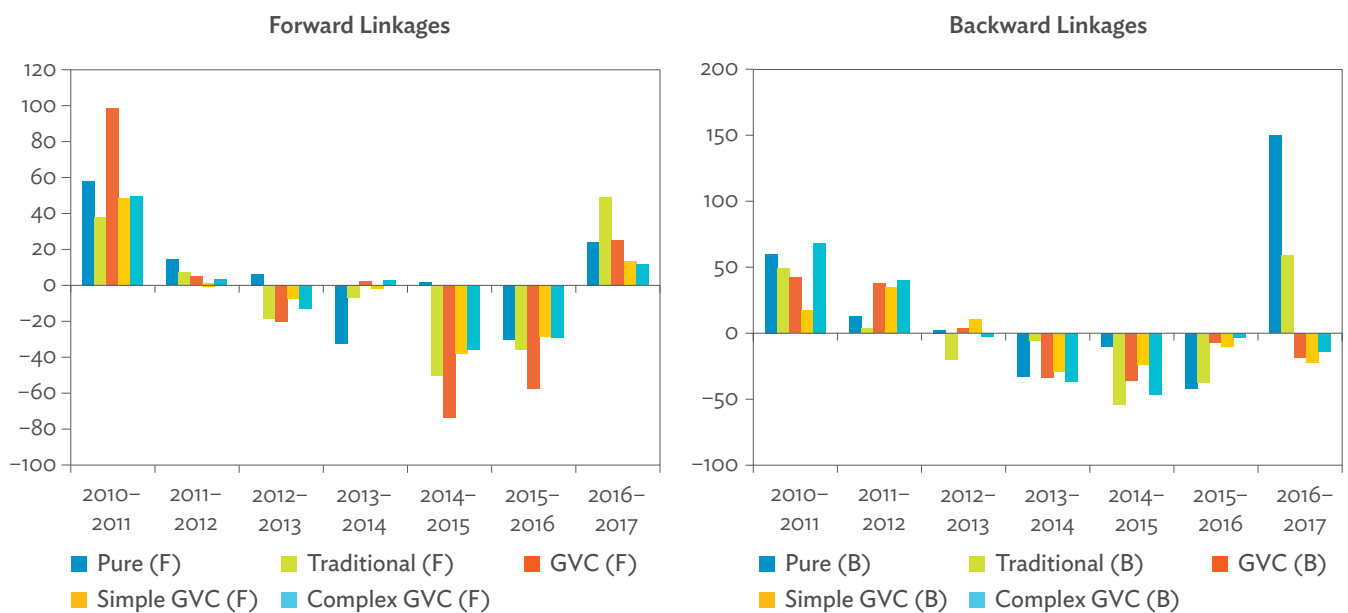


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

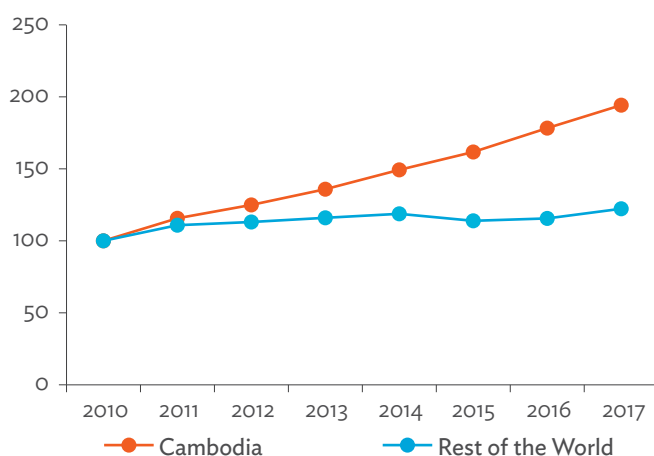
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# 2.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Cambodia

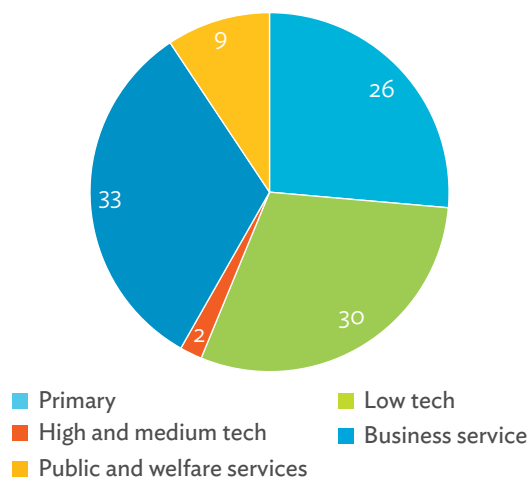
**Figure 2.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

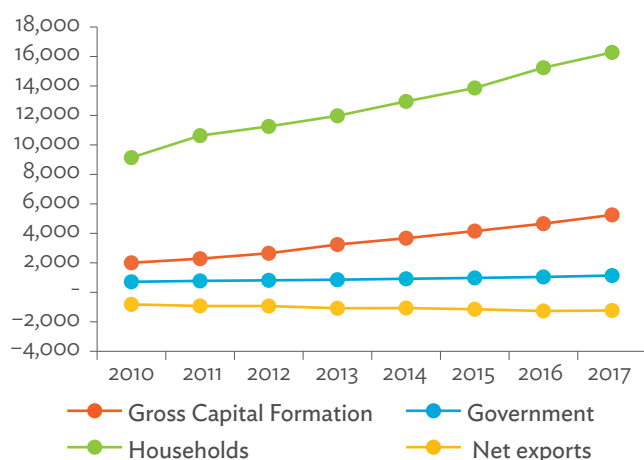
**Figure 2.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

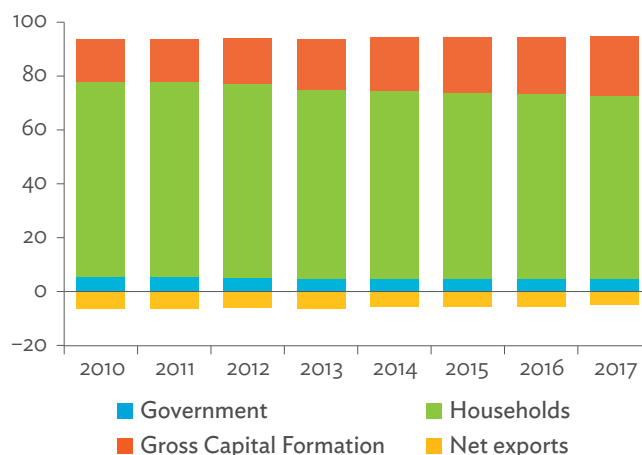


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

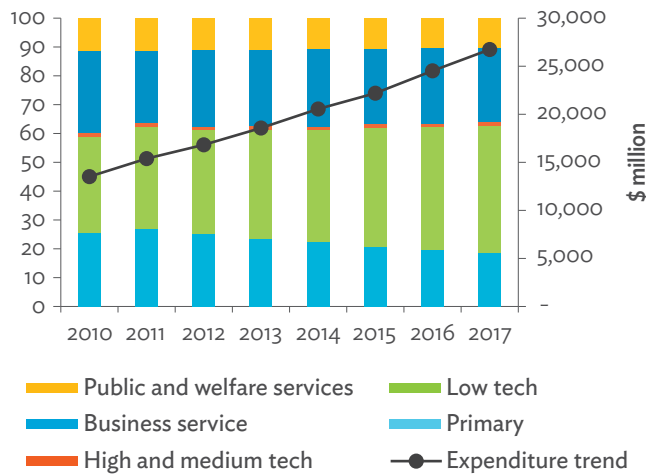
**Figure 2.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

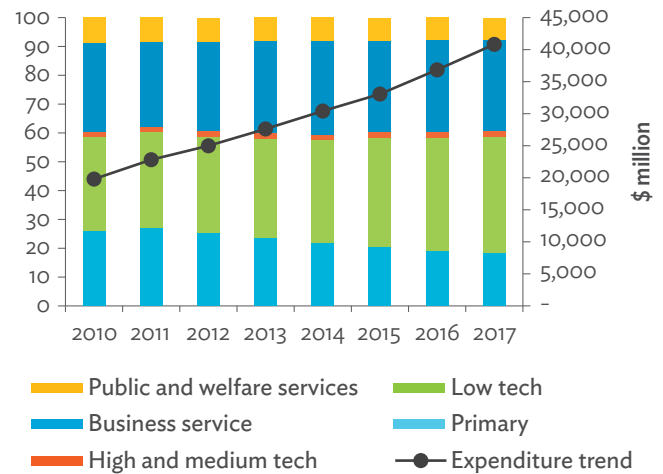


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

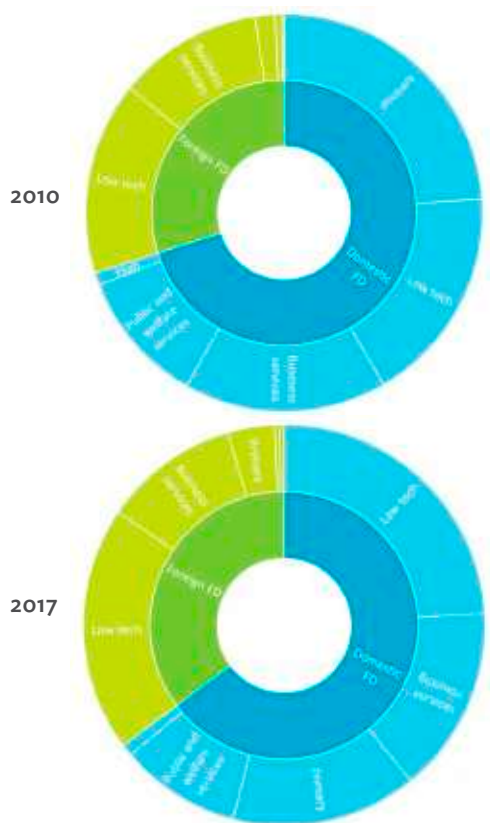


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

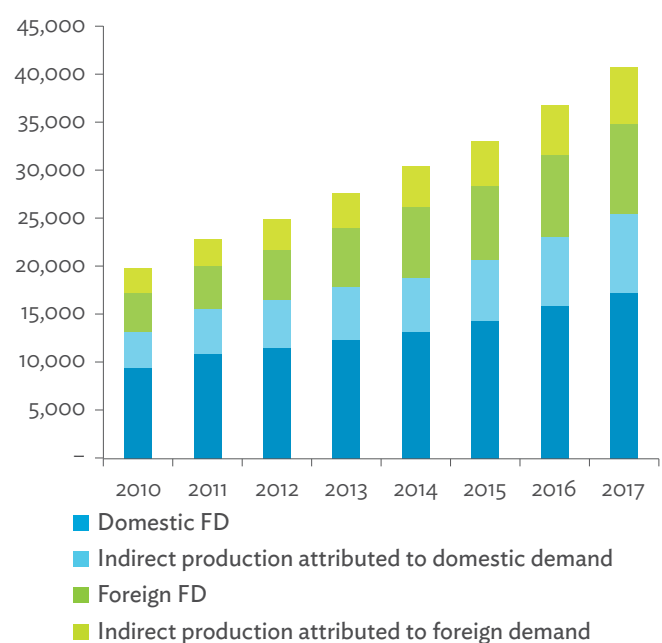


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

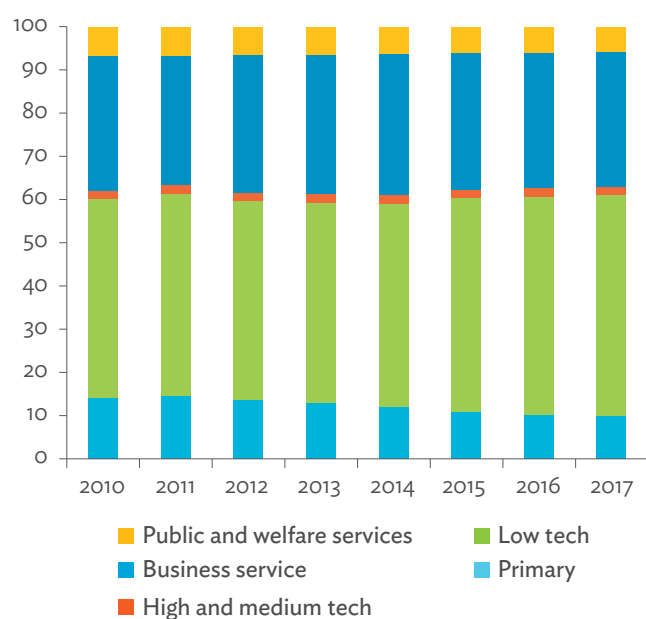


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

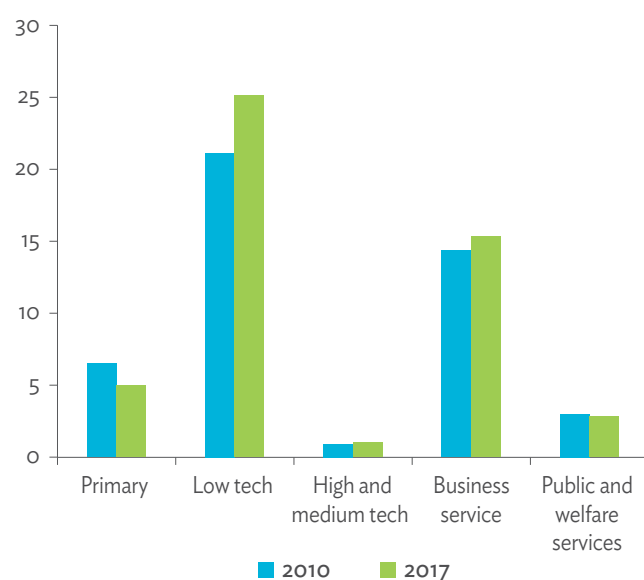
**Figure 2.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

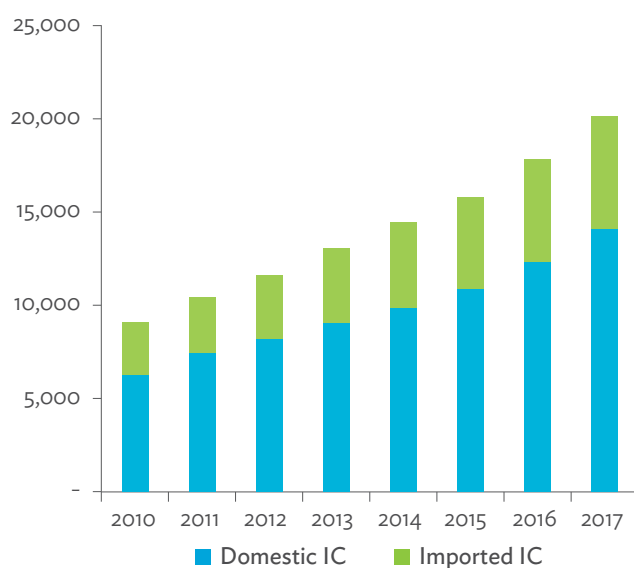
**Figure 2.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

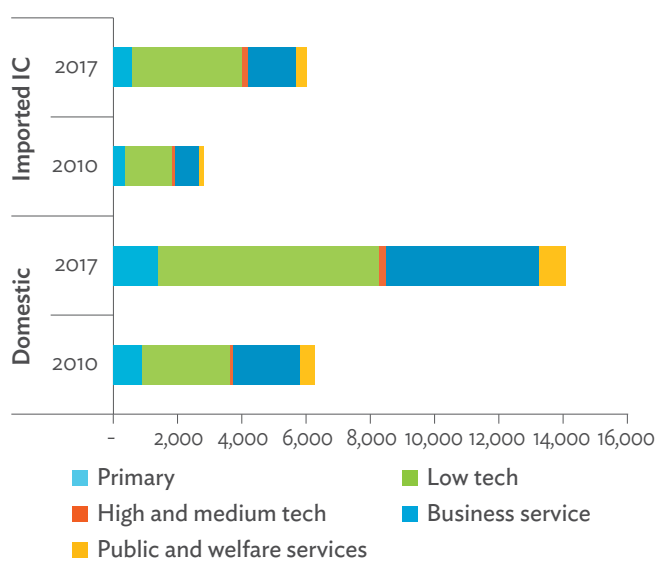


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**



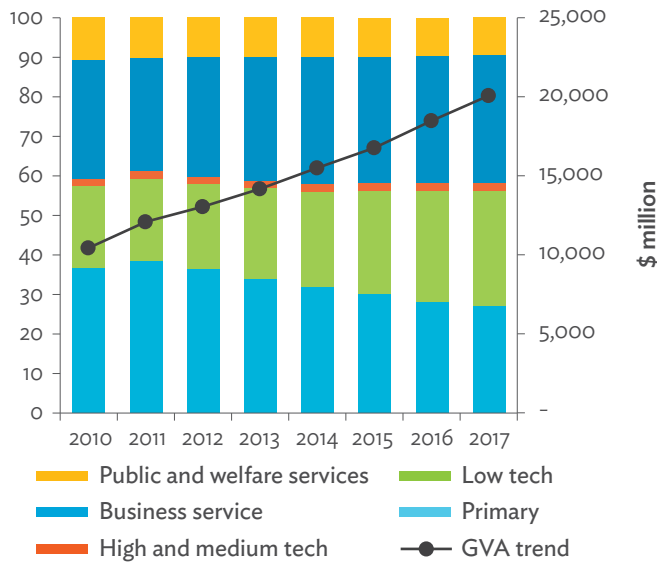
\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 2.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

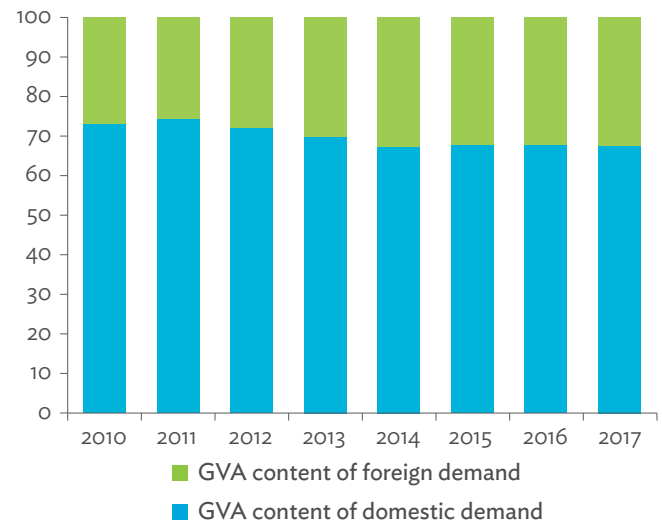


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

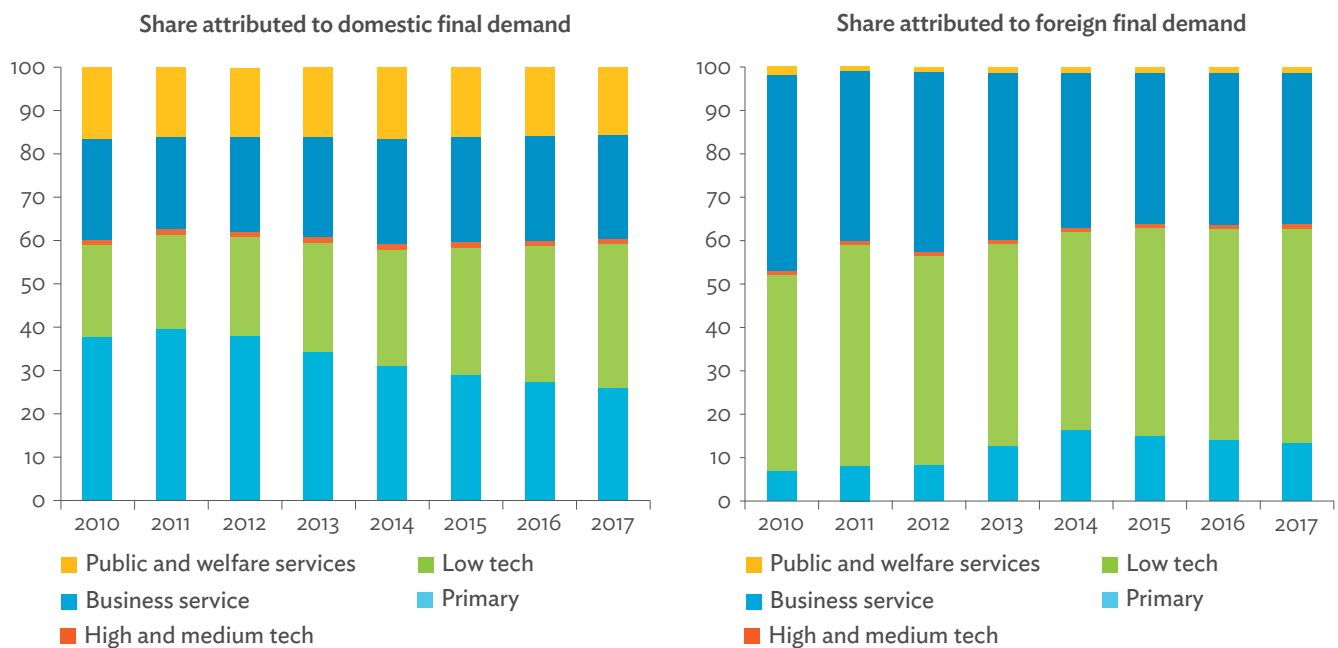


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 2.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.894	0.917	0.912	0.897	0.884	0.888	0.886	0.882
Mining and quarrying	0.817	0.813	0.834	0.844	0.851	0.857	0.855	0.851
Food, beverages, and tobacco	0.738	0.758	0.744	0.711	0.685	0.689	0.688	0.688
Textiles and textile products	0.597	0.603	0.599	0.594	0.589	0.597	0.600	0.602
Leather, leather products, and footwear	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Wood and products of wood and cork	0.805	0.842	0.835	0.815	0.799	0.802	0.801	0.799
Pulp, paper, paper products, printing, and publishing	0.648	0.685	0.672	0.656	0.645	0.651	0.653	0.653
Coke, refined petroleum, and nuclear fuel	0.157	0.271	0.320	0.104	0.268	0.275	0.281	0.300
Chemicals and chemical products	0.746	0.773	0.765	0.745	0.729	0.736	0.737	0.736
Rubber and plastics	0.487	0.512	0.504	0.493	0.485	0.495	0.498	0.503
Other nonmetallic minerals	0.706	0.754	0.752	0.748	0.746	0.755	0.757	0.757
Basic metals and fabricated metal	0.653	0.690	0.686	0.681	0.679	0.690	0.693	0.693
Machinery, nec	0.556	0.427	0.424	0.415	0.411	0.419	0.424	0.431
Electrical and optical equipment	0.589	0.604	0.606	0.591	0.590	0.597	0.587	0.595
Transport equipment	0.602	0.655	0.652	0.644	0.639	0.649	0.650	0.650
Manufacturing, nec; recycling	0.615	0.647	0.644	0.635	0.630	0.639	0.640	0.640
Electricity, gas, and water supply	0.510	0.537	0.537	0.528	0.521	0.531	0.534	0.539
Construction	0.682	0.696	0.706	0.721	0.732	0.740	0.741	0.740
Sale, maintenance, and repair	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Wholesale trade and commission trade	0.760	0.793	0.774	0.767	0.763	0.769	0.768	0.767
Retail trade	0.744	0.768	0.748	0.739	0.733	0.740	0.740	0.738
Hotels and restaurants	0.828	0.844	0.829	0.813	0.801	0.804	0.802	0.799
Inland transport	0.720	0.730	0.713	0.711	0.710	0.718	0.718	0.717
Water transport	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Air transport	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other supporting and auxiliary transport activities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Post and telecommunications	0.797	0.809	0.796	0.793	0.791	0.792	0.792	0.790
Financial intermediation	0.931	0.947	0.937	0.938	0.939	0.943	0.942	0.938
Real estate activities	0.841	0.867	0.860	0.859	0.859	0.862	0.863	0.861
Renting of M&Eq and other business activities	0.778	0.786	0.787	0.786	0.785	0.790	0.791	0.791
Public administration and defense; compulsory social security	0.769	0.790	0.765	0.752	0.741	0.746	0.746	0.745
Education	0.904	0.904	0.891	0.876	0.865	0.870	0.869	0.866
Health and social work	0.854	0.850	0.836	0.826	0.817	0.824	0.822	0.819
Other community, social, and personal services	0.890	0.870	0.863	0.853	0.846	0.851	0.849	0.845
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 2.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.099	0.077	0.082	0.097	0.109	0.104	0.105	0.109
Mining and quarrying	0.167	0.173	0.154	0.145	0.139	0.134	0.136	0.140
Food, beverages, and tobacco	0.233	0.212	0.225	0.259	0.283	0.279	0.279	0.279
Textiles and textile products	0.365	0.361	0.364	0.371	0.372	0.366	0.362	0.359
Leather, leather products, and footwear	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Wood and products of wood and cork	0.171	0.134	0.141	0.161	0.175	0.170	0.170	0.170
Pulp, paper, paper products, printing, and publishing	0.326	0.290	0.304	0.320	0.330	0.323	0.321	0.319
Coke, refined petroleum, and nuclear fuel	0.830	0.706	0.654	0.886	0.707	0.700	0.694	0.674
Chemicals and chemical products	0.234	0.209	0.216	0.237	0.251	0.242	0.241	0.242
Rubber and plastics	0.471	0.450	0.458	0.469	0.475	0.465	0.462	0.457
Other nonmetallic minerals	0.274	0.224	0.226	0.230	0.231	0.222	0.221	0.221
Basic metals and fabricated metal	0.326	0.289	0.293	0.298	0.299	0.289	0.288	0.287
Machinery, nec	0.410	0.547	0.549	0.559	0.561	0.555	0.550	0.542
Electrical and optical equipment	0.393	0.379	0.377	0.392	0.392	0.387	0.397	0.389
Transport equipment	0.378	0.324	0.328	0.336	0.339	0.329	0.328	0.328
Manufacturing, nec; recycling	0.366	0.335	0.337	0.347	0.350	0.340	0.339	0.339
Electricity, gas, and water supply	0.455	0.427	0.427	0.437	0.442	0.433	0.430	0.426
Construction	0.296	0.282	0.273	0.260	0.248	0.242	0.243	0.245
Sale, maintenance, and repair	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Wholesale trade and commission trade	0.220	0.186	0.205	0.212	0.215	0.209	0.209	0.209
Retail trade	0.232	0.207	0.228	0.237	0.241	0.234	0.234	0.234
Hotels and restaurants	0.151	0.134	0.150	0.166	0.177	0.173	0.174	0.175
Inland transport	0.258	0.247	0.265	0.267	0.267	0.259	0.259	0.259
Water transport	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Air transport	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other supporting and auxiliary transport activities	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Post and telecommunications	0.176	0.166	0.179	0.183	0.183	0.180	0.180	0.181
Financial intermediation	0.059	0.043	0.054	0.053	0.052	0.048	0.049	0.052
Real estate activities	0.136	0.109	0.120	0.121	0.120	0.116	0.117	0.118
Renting of M&Eq and other business activities	0.192	0.180	0.185	0.187	0.186	0.180	0.179	0.180
Public administration and defense; compulsory social security	0.204	0.182	0.207	0.220	0.228	0.222	0.220	0.220
Education	0.080	0.081	0.095	0.109	0.119	0.114	0.115	0.117
Health and social work	0.134	0.137	0.150	0.161	0.168	0.161	0.162	0.164
Other community, social, and personal services	0.097	0.115	0.123	0.132	0.138	0.133	0.135	0.138
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 2.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.226	1.251	1.250	1.246	1.233	1.231	1.240	1.259
Mining and quarrying	1.254	1.228	1.235	1.243	1.239	1.238	1.245	1.263
Food, beverages, and tobacco	1.860	1.907	1.900	1.875	1.846	1.865	1.880	1.908
Textiles and textile products	1.700	1.682	1.674	1.668	1.655	1.672	1.684	1.708
Leather, leather products, and footwear	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wood and products of wood and cork	1.675	1.706	1.708	1.697	1.678	1.684	1.696	1.719
Pulp, paper, paper products, printing, and publishing	1.584	1.640	1.628	1.619	1.603	1.616	1.628	1.652
Coke, refined petroleum, and nuclear fuel	1.056	1.025	1.118	1.000	1.039	1.050	1.064	1.110
Chemicals and chemical products	1.395	1.416	1.413	1.405	1.391	1.394	1.406	1.426
Rubber and plastics	1.642	1.625	1.617	1.609	1.596	1.616	1.632	1.659
Other nonmetallic minerals	1.341	1.403	1.399	1.397	1.387	1.389	1.396	1.413
Basic metals and fabricated metal	1.317	1.370	1.364	1.362	1.354	1.360	1.368	1.386
Machinery, nec	1.442	1.273	1.271	1.265	1.261	1.286	1.302	1.328
Electrical and optical equipment	1.134	1.140	1.147	1.134	1.137	1.161	1.152	1.185
Transport equipment	1.224	1.277	1.276	1.276	1.270	1.280	1.292	1.312
Manufacturing, nec; recycling	1.224	1.244	1.242	1.241	1.236	1.248	1.259	1.279
Electricity, gas, and water supply	1.731	1.767	1.769	1.759	1.745	1.758	1.769	1.792
Construction	1.346	1.376	1.382	1.394	1.395	1.401	1.412	1.432
Sale, maintenance, and repair	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Wholesale trade and commission trade	1.377	1.445	1.437	1.439	1.431	1.435	1.446	1.467
Retail trade	1.411	1.465	1.455	1.454	1.445	1.450	1.461	1.482
Hotels and restaurants	1.740	1.776	1.769	1.764	1.750	1.755	1.767	1.791
Inland transport	1.359	1.384	1.375	1.381	1.377	1.382	1.392	1.411
Water transport	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Air transport	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Other supporting and auxiliary transport activities	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Post and telecommunications	1.523	1.538	1.533	1.537	1.530	1.538	1.549	1.571
Financial intermediation	1.207	1.229	1.228	1.233	1.227	1.217	1.226	1.247
Real estate activities	1.568	1.599	1.596	1.600	1.593	1.588	1.598	1.622
Renting of M&Eq and other business activities	1.686	1.710	1.714	1.719	1.712	1.704	1.716	1.740
Public administration and defense; compulsory social security	1.589	1.640	1.623	1.618	1.604	1.607	1.617	1.639
Education	1.349	1.361	1.358	1.357	1.347	1.343	1.352	1.373
Health and social work	1.299	1.309	1.305	1.305	1.297	1.298	1.307	1.326
Other community, social, and personal services	1.338	1.344	1.344	1.345	1.336	1.335	1.347	1.368
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

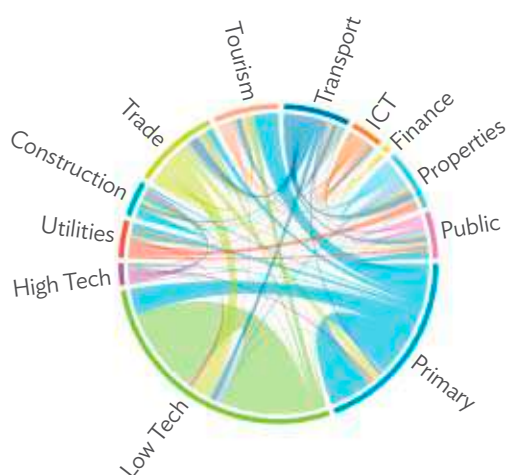
Source: Asian Development Bank Multi-Regional Input-Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 2.2

### Cambodia

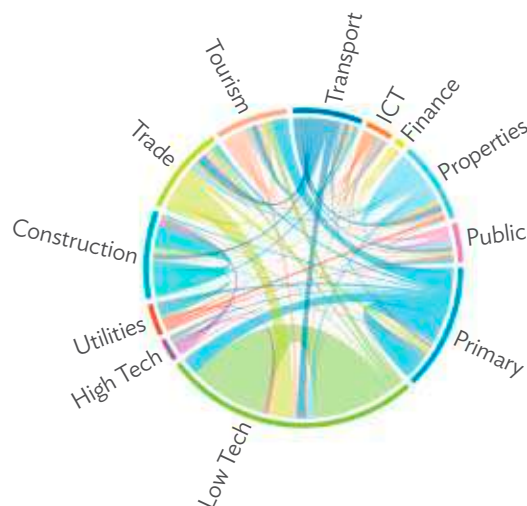
**Figure 2.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

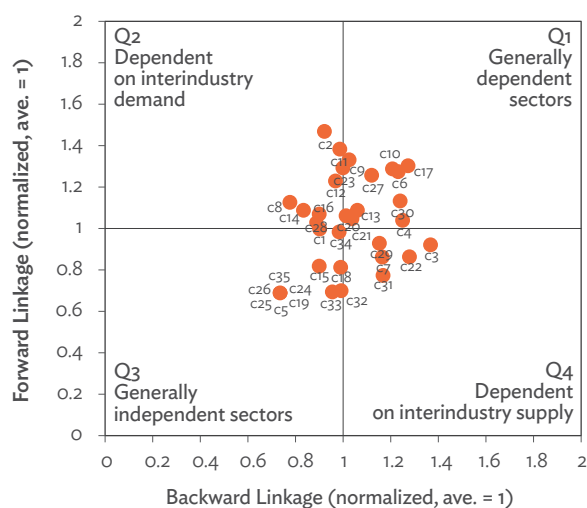
**Figure 2.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

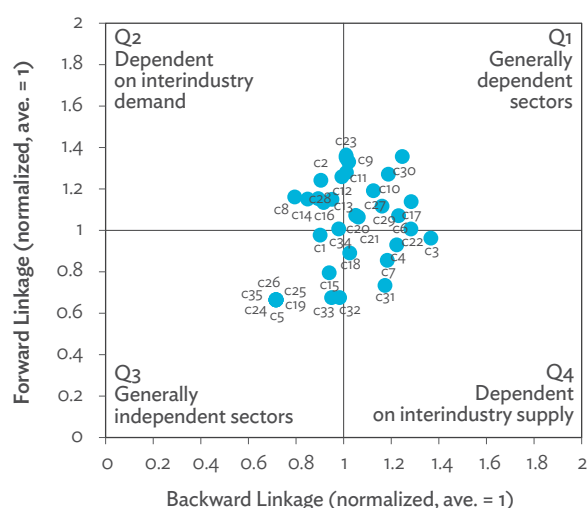
**Figure 2.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.2.2b: Backward and Forward Linkages by Industry, 2017**

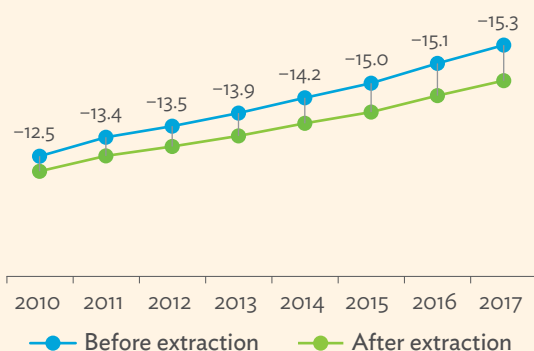


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

## Box 2: Hypothetical Extraction of Textiles and Textile Products Industry in Cambodia

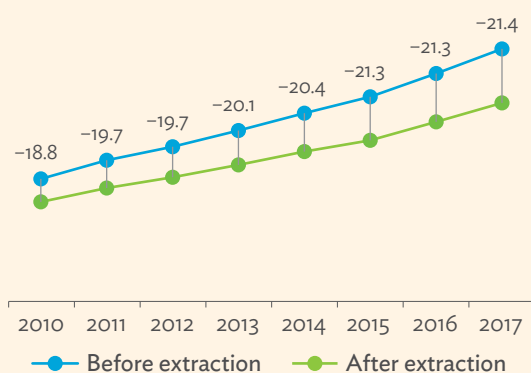
**Figure 2.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

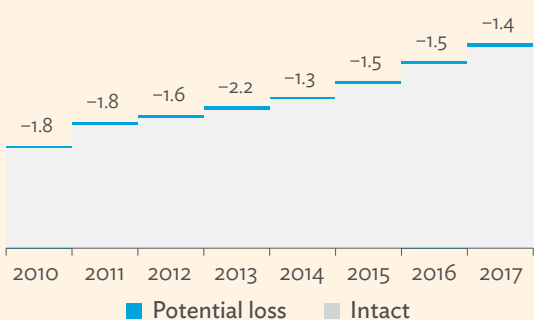
**Figure 2.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

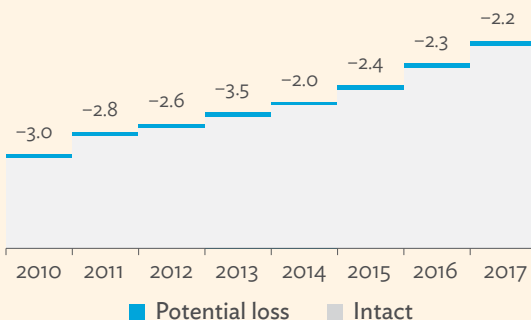
**Figure 2.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

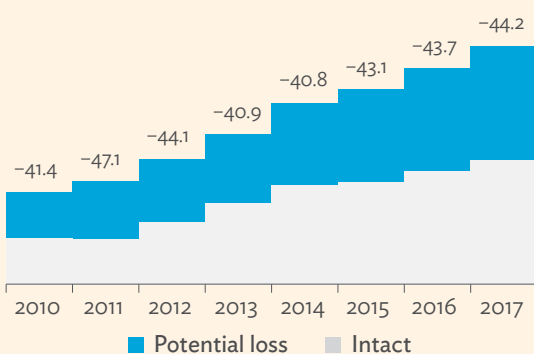
**Figure 2.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

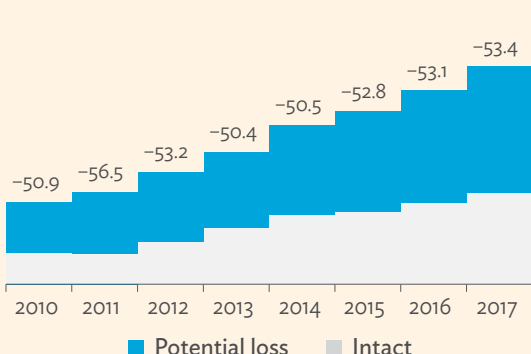
**Figure 2.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 2.2.1: Input-Output Backward Linkage**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.902	0.910	0.909	0.910	0.905	0.900	0.901	0.901
Mining and quarrying	0.922	0.893	0.898	0.907	0.909	0.904	0.904	0.905
Food, beverages, and tobacco	1.368	1.387	1.382	1.369	1.354	1.362	1.365	1.367
Textiles and textile products	1.250	1.223	1.217	1.218	1.214	1.222	1.223	1.223
Leather, leather products, and footwear	0.735	0.727	0.727	0.730	0.734	0.731	0.726	0.716
Wood and products of wood and cork	1.232	1.241	1.242	1.239	1.231	1.230	1.232	1.231
Pulp, paper, paper products, printing, and publishing	1.165	1.192	1.184	1.182	1.176	1.181	1.182	1.183
Coke, refined petroleum, and nuclear fuel	0.777	0.746	0.813	0.730	0.762	0.767	0.773	0.795
Chemicals and chemical products	1.026	1.030	1.028	1.026	1.020	1.019	1.021	1.021
Rubber and plastics	1.208	1.182	1.176	1.175	1.171	1.181	1.185	1.188
Other nonmetallic minerals	0.986	1.020	1.017	1.020	1.018	1.015	1.014	1.012
Basic metals and fabricated metal	0.968	0.996	0.992	0.994	0.993	0.993	0.993	0.993
Machinery, nec	1.060	0.925	0.924	0.924	0.925	0.940	0.945	0.951
Electrical and optical equipment	0.834	0.829	0.834	0.828	0.834	0.848	0.836	0.849
Transport equipment	0.900	0.929	0.928	0.932	0.932	0.935	0.938	0.940
Manufacturing, nec; recycling	0.900	0.904	0.903	0.906	0.906	0.912	0.914	0.916
Electricity, gas, and water supply	1.273	1.285	1.286	1.284	1.280	1.285	1.285	1.284
Construction	0.990	1.000	1.005	1.018	1.023	1.024	1.025	1.026
Sale, maintenance, and repair	0.735	0.727	0.727	0.730	0.734	0.731	0.726	0.716
Wholesale trade and commission trade	1.013	1.051	1.045	1.050	1.050	1.049	1.050	1.051
Retail trade	1.037	1.066	1.058	1.062	1.060	1.060	1.061	1.062
Hotels and restaurants	1.279	1.291	1.286	1.287	1.284	1.282	1.283	1.283
Inland transport	0.999	1.006	1.000	1.008	1.010	1.010	1.011	1.011
Water transport	0.735	0.727	0.727	0.730	0.734	0.731	0.726	0.716
Air transport	0.735	0.727	0.727	0.730	0.734	0.731	0.726	0.716
Other supporting and auxiliary transport activities	0.735	0.727	0.727	0.730	0.734	0.731	0.726	0.716
Post and telecommunications	1.120	1.118	1.115	1.122	1.122	1.124	1.125	1.125
Financial intermediation	0.888	0.894	0.893	0.900	0.900	0.890	0.890	0.893
Real estate activities	1.153	1.163	1.161	1.168	1.168	1.160	1.160	1.161
Renting of M&Eq and other business activities	1.240	1.243	1.247	1.255	1.256	1.245	1.246	1.246
Public administration and defense; compulsory social security	1.168	1.192	1.180	1.181	1.176	1.174	1.174	1.174
Education	0.992	0.990	0.987	0.991	0.988	0.981	0.982	0.983
Health and social work	0.955	0.952	0.949	0.953	0.951	0.948	0.949	0.950
Other community, social, and personal services	0.984	0.977	0.977	0.982	0.980	0.975	0.978	0.980
Private households with employed persons	0.735	0.727	0.727	0.730	0.734	0.731	0.726	0.716
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 2.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.998	1.020	1.009	1.011	1.002	0.988	0.971	0.977
Mining and quarrying	1.469	1.301	1.299	1.309	1.308	1.277	1.238	1.242
Food, beverages, and tobacco	0.921	0.960	0.953	0.969	0.978	0.971	0.956	0.963
Textiles and textile products	1.039	1.016	0.979	0.969	0.957	0.961	0.939	0.930
Leather, leather products, and footwear	0.689	0.696	0.685	0.689	0.693	0.684	0.671	0.665
Wood and products of wood and cork	1.274	1.158	1.122	1.115	1.098	1.088	1.068	1.071
Pulp, paper, paper products, printing, and publishing	0.862	0.914	0.886	0.882	0.875	0.872	0.856	0.855
Coke, refined petroleum, and nuclear fuel	1.126	0.938	1.401	0.998	0.904	1.408	1.378	1.161
Chemicals and chemical products	1.332	1.370	1.353	1.366	1.357	1.335	1.319	1.331
Rubber and plastics	1.288	1.287	1.253	1.277	1.286	1.274	1.264	1.271
Other nonmetallic minerals	1.383	1.238	1.232	1.263	1.278	1.270	1.262	1.280
Basic metals and fabricated metal	1.229	1.192	1.181	1.209	1.221	1.233	1.242	1.259
Machinery, nec	1.088	1.066	1.050	1.052	1.046	1.087	1.122	1.150
Electrical and optical equipment	1.088	1.102	1.083	1.088	1.081	0.774	1.131	1.151
Transport equipment	0.818	0.807	0.789	0.786	0.780	0.788	0.790	0.795
Manufacturing, nec; recycling	1.070	1.084	1.067	1.079	1.080	1.100	1.115	1.135
Electricity, gas, and water supply	1.303	1.139	1.149	1.169	1.175	1.150	1.128	1.139
Construction	0.813	0.817	0.810	0.812	0.812	0.837	0.867	0.891
Sale, maintenance, and repair	0.689	0.696	0.685	0.689	0.693	0.684	0.671	0.665
Wholesale trade and commission trade	1.062	1.066	1.043	1.063	1.072	1.073	1.063	1.072
Retail trade	1.047	1.050	1.029	1.044	1.050	1.057	1.053	1.064
Hotels and restaurants	0.863	1.028	0.992	1.014	1.025	1.021	1.004	1.007
Inland transport	1.293	1.363	1.333	1.362	1.371	1.364	1.348	1.356
Water transport	0.689	0.696	0.685	0.689	0.693	0.684	0.671	0.665
Air transport	0.689	0.696	0.685	0.689	0.693	0.684	0.671	0.665
Other supporting and auxiliary transport activities	0.689	0.696	0.685	0.689	0.693	0.684	0.671	0.665
Post and telecommunications	1.257	1.200	1.179	1.205	1.213	1.197	1.181	1.192
Financial intermediation	1.030	1.125	1.131	1.157	1.166	1.149	1.136	1.153
Real estate activities	0.929	1.083	1.095	1.121	1.133	1.115	1.103	1.117
Renting of M&Eq and other business activities	1.133	1.346	1.343	1.372	1.380	1.359	1.342	1.357
Public administration and defense; compulsory social security	0.774	0.749	0.745	0.755	0.761	0.750	0.737	0.734
Education	0.700	0.705	0.694	0.700	0.703	0.694	0.681	0.676
Health and social work	0.694	0.704	0.694	0.700	0.703	0.694	0.681	0.676
Other community, social, and personal services	0.983	1.000	0.996	1.018	1.028	1.013	0.999	1.007
Private households with employed persons	0.689	0.696	0.685	0.689	0.693	0.684	0.671	0.665
	lowest linkage	<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div> highest linkage		

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

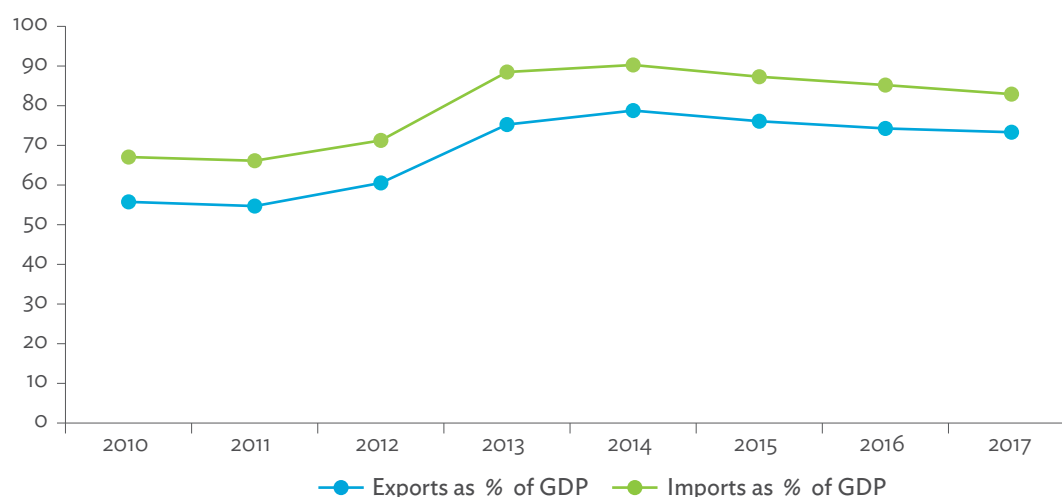
Source: Asian Development Bank Multi-Regional Input-Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 2.3

### Cambodia

**Figure 2.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

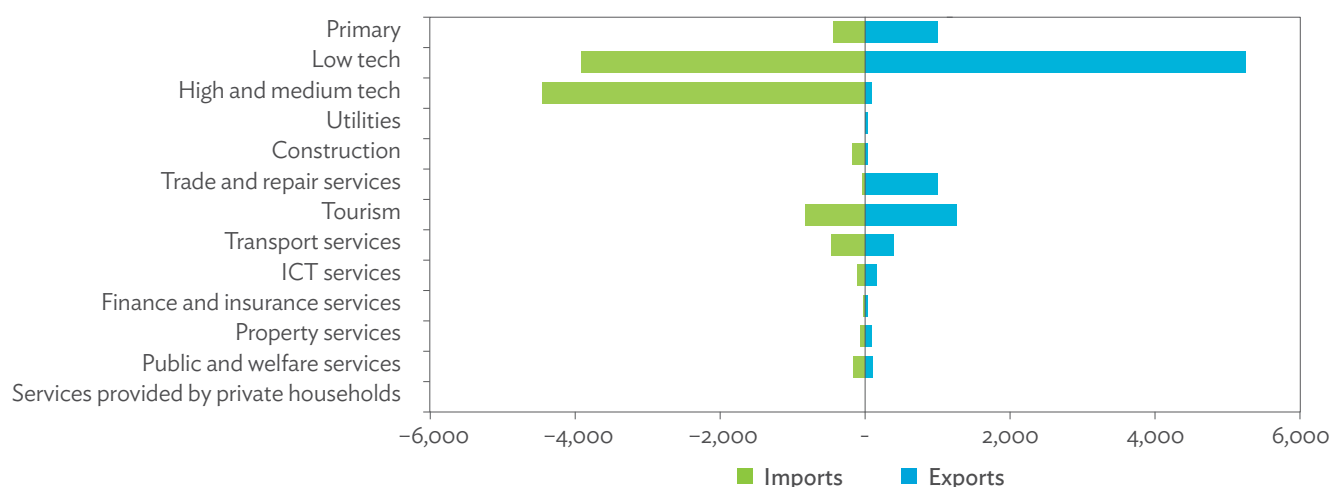


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

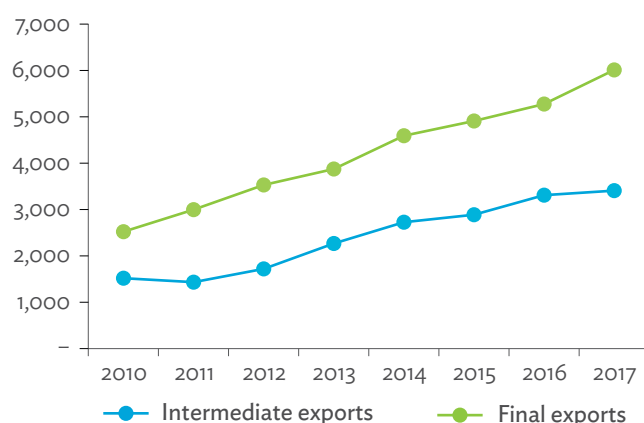


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

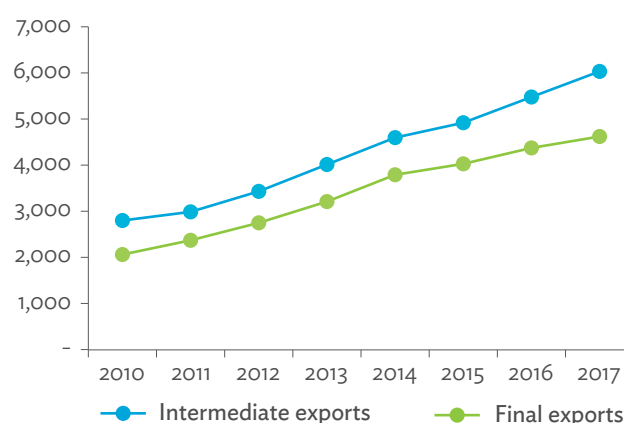


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

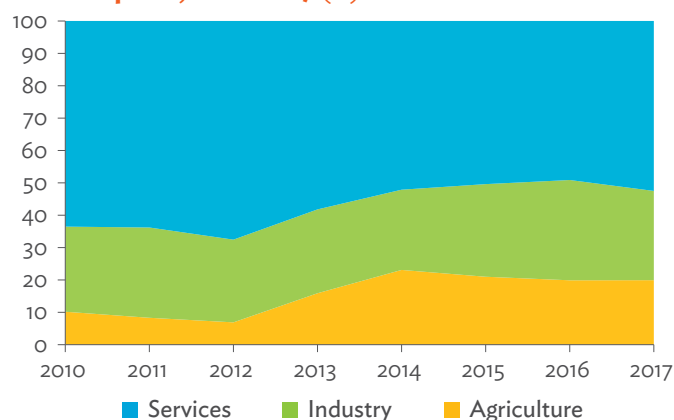


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

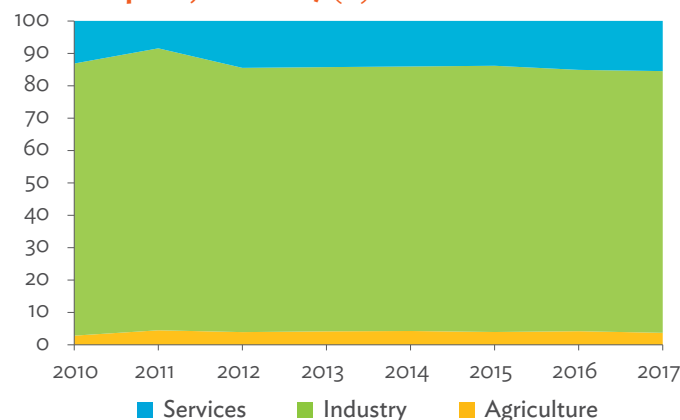
**Figure 2.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

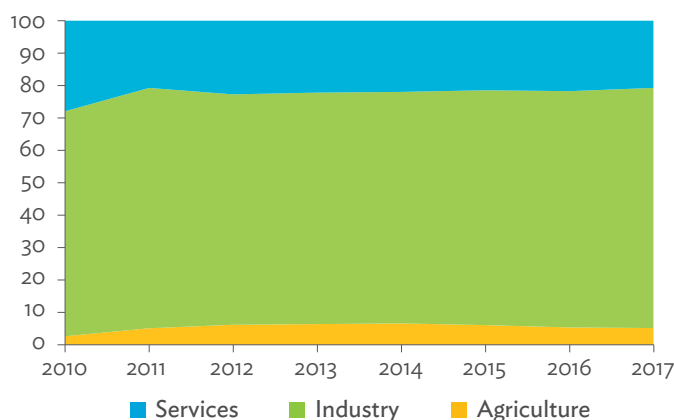
**Figure 2.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

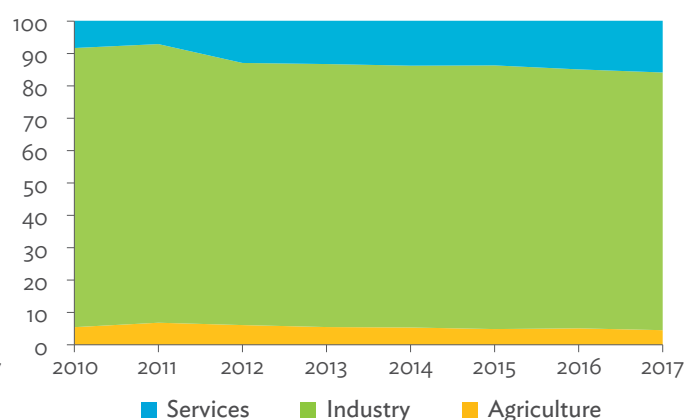
**Figure 2.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

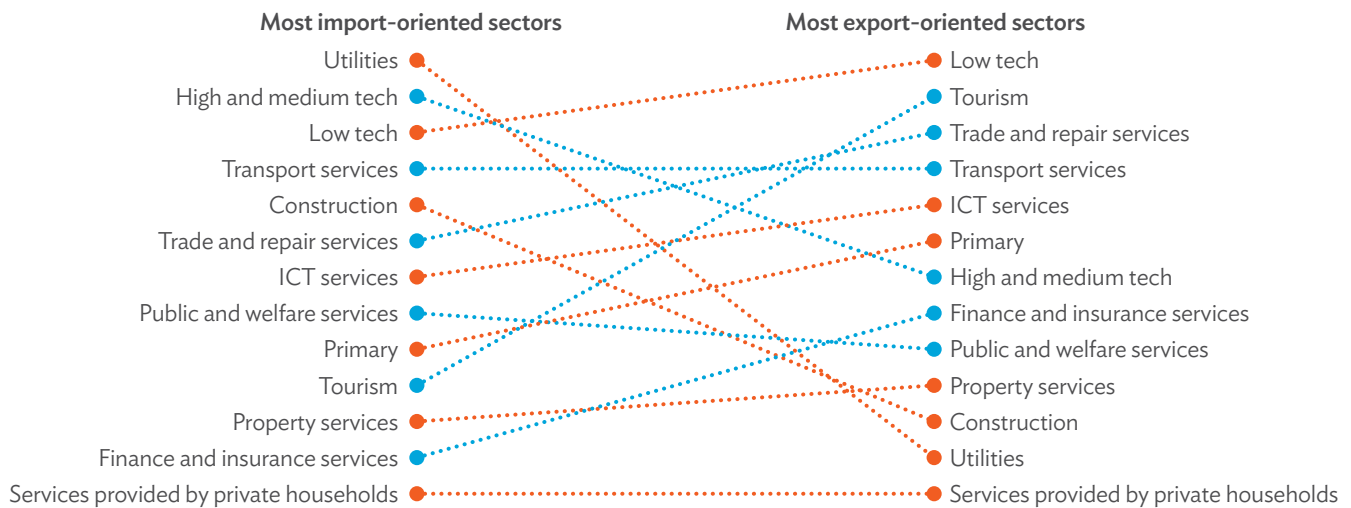
**Figure 2.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

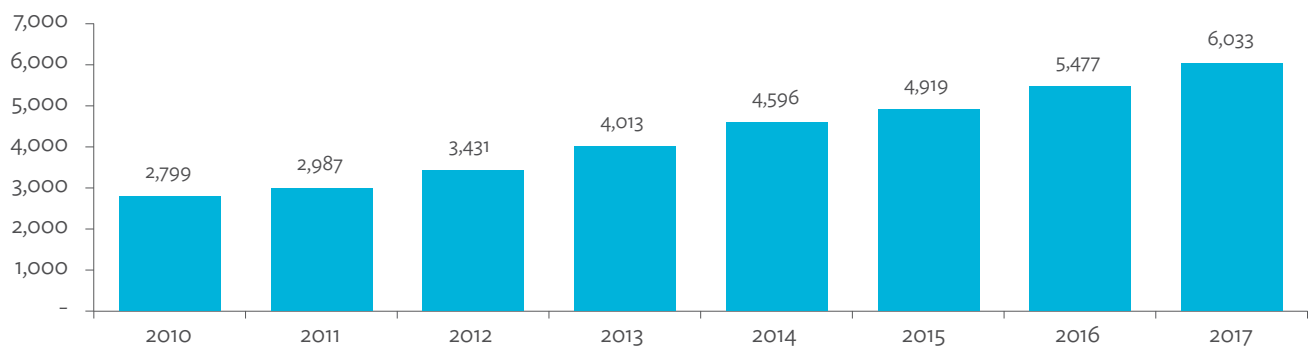


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

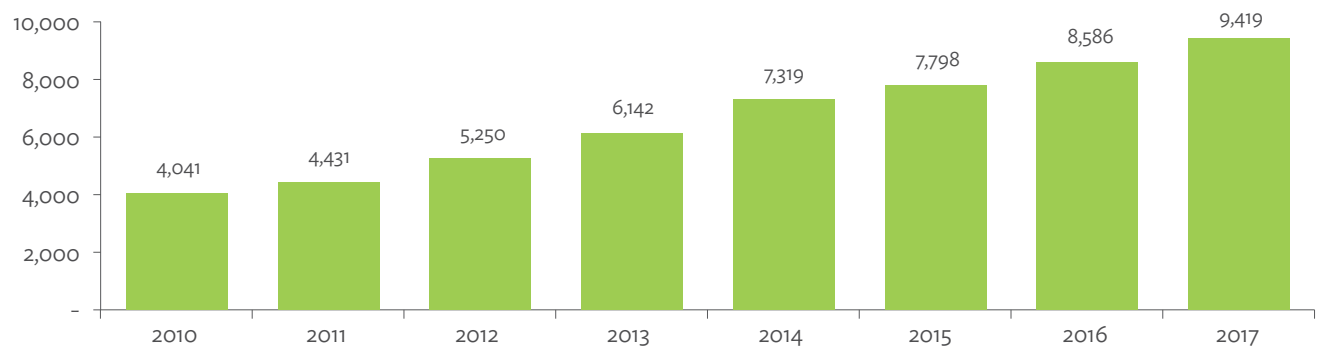


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

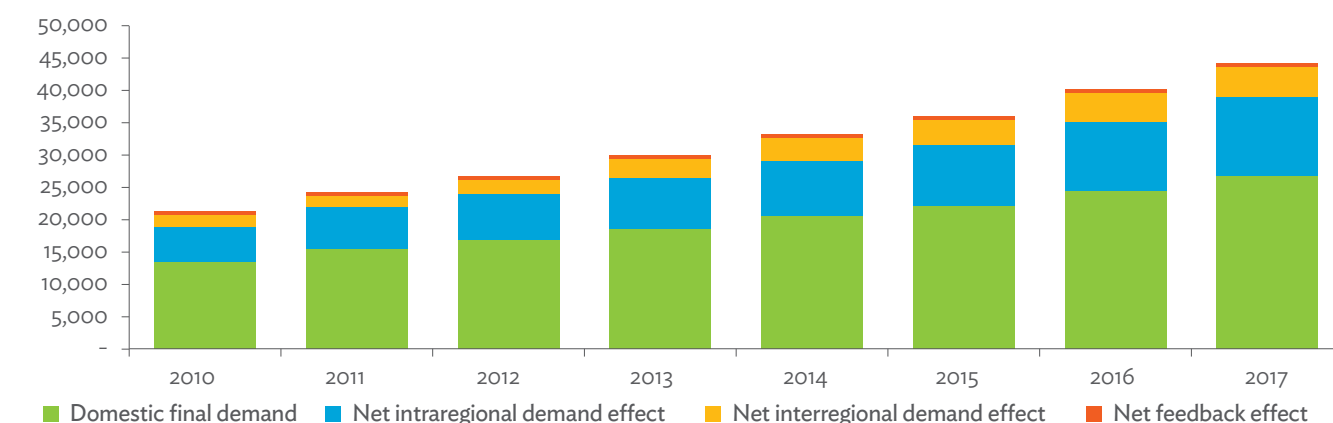


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

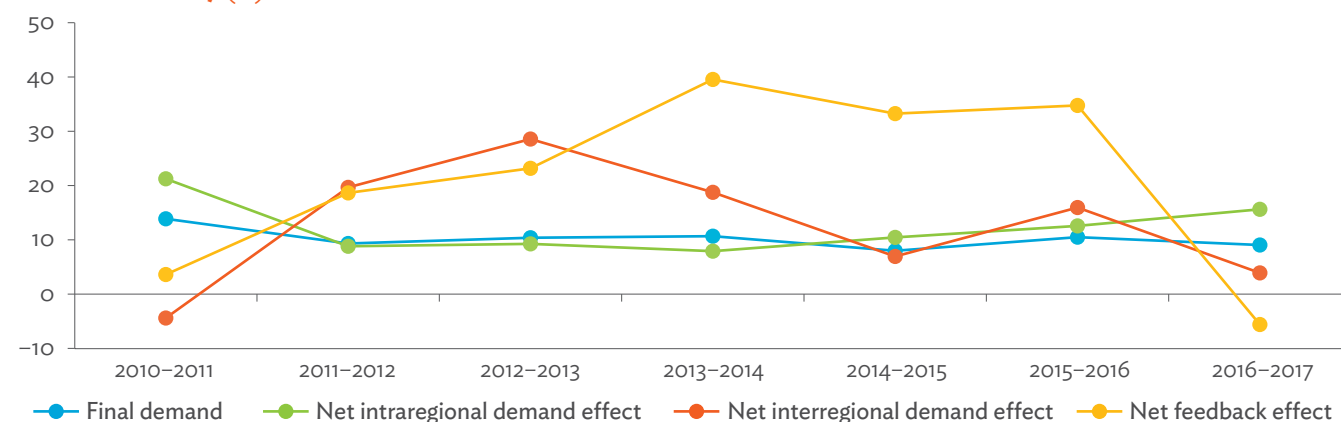


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

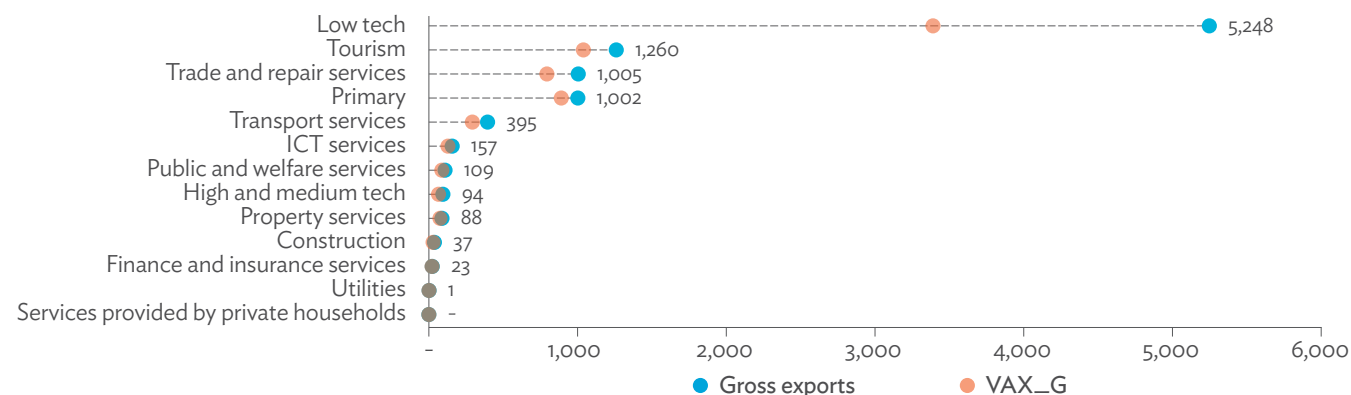
**Figure 2.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

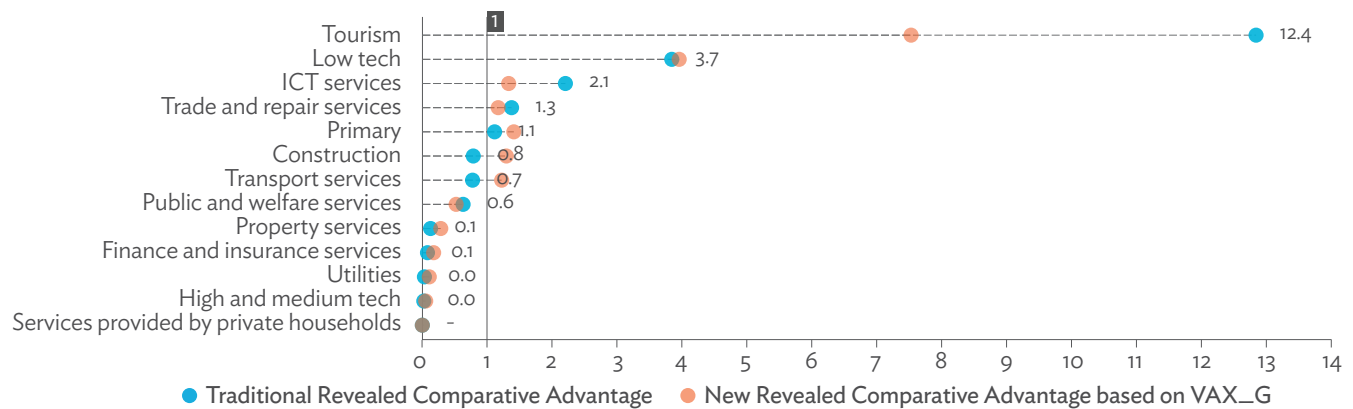


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 2.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	3,446	4,175	4,257	4,397	4,600	4,634	4,831	5,018
Low tech	4,525	5,418	6,027	6,971	7,981	9,121	10,417	11,714
High and medium tech	163	211	224	242	266	287	321	353
Business service	3,833	3,840	4,472	4,950	5,512	5,828	6,444	6,953
Personal service	1,546	1,743	1,842	2,008	2,191	2,322	2,507	2,700
Intraregional effects (M1)								
Primary	1,476	1,826	1,889	1,847	1,810	1,837	1,911	2,108
Low tech	1,708	1,906	2,052	2,278	2,450	2,953	3,487	4,198
High and medium tech	194	216	235	261	297	329	379	440
Business service	1,933	2,507	2,845	3,277	3,705	4,011	4,507	5,153
Personal service	159	179	196	222	246	267	295	333

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 2.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	372	307	342	650	955	919	1,006	1,050
Low tech	647	617	674	834	983	1,217	1,506	1,417
High and medium tech	21	29	33	51	51	54	68	74
Business service	1,216	1,236	1,560	1,808	2,002	2,080	2,370	2,603
Personal service	80	44	64	94	89	93	110	113
Feedback effects (M3)								
Primary	0.03	0.02	0.03	0.06	0.10	0.10	0.13	0.13
Low tech	0.18	0.19	0.21	0.22	0.32	0.48	0.66	0.57
High and medium tech	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
Business service	0.11	0.11	0.15	0.19	0.24	0.30	0.40	0.41
Personal service	0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.02

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 2.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.2263	0.2513	0.2504	0.2464	0.2334	0.2313	0.2405	0.2585
Mining and quarrying	0.2535	0.2279	0.2349	0.2427	0.2392	0.2375	0.2453	0.2629
Food, beverages, and tobacco	0.8601	0.9073	0.8998	0.8750	0.8460	0.8646	0.8801	0.9080
Textiles and textile products	0.7003	0.6816	0.6738	0.6681	0.6549	0.6719	0.6842	0.7075
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.6750	0.7063	0.7082	0.6972	0.6784	0.6837	0.6961	0.7186
Pulp, paper, paper products, printing, and publishing	0.5841	0.6398	0.6284	0.6186	0.6032	0.6159	0.6280	0.6523
Coke, refined petroleum, and nuclear fuel	0.0562	0.0253	0.1182	0.0000	0.0386	0.0502	0.0644	0.1096
Chemicals and chemical products	0.3946	0.4164	0.4134	0.4051	0.3907	0.3940	0.4056	0.4259
Rubber and plastics	0.6425	0.6252	0.6168	0.6091	0.5964	0.6158	0.6323	0.6586
Other nonmetallic minerals	0.3415	0.4033	0.3987	0.3969	0.3873	0.3888	0.3960	0.4128
Basic metals and fabricated metal	0.3168	0.3697	0.3642	0.3623	0.3536	0.3596	0.3680	0.3861
Machinery, nec	0.4419	0.2726	0.2711	0.2654	0.2614	0.2860	0.3020	0.3279
Electrical and optical equipment	0.1337	0.1404	0.1467	0.1341	0.1367	0.1612	0.1515	0.1853
Transport equipment	0.2237	0.2774	0.2760	0.2763	0.2704	0.2803	0.2915	0.3117
Manufacturing, nec; recycling	0.2237	0.2437	0.2423	0.2413	0.2358	0.2477	0.2590	0.2791
Electricity, gas, and water supply	0.7314	0.7675	0.7690	0.7591	0.7446	0.7582	0.7693	0.7923
Construction	0.3463	0.3758	0.3817	0.3943	0.3952	0.4015	0.4121	0.4322
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.3774	0.4455	0.4368	0.4386	0.4309	0.4353	0.4461	0.4674
Retail trade	0.4109	0.4653	0.4548	0.4543	0.4454	0.4502	0.4608	0.4824
Hotels and restaurants	0.7396	0.7759	0.7688	0.7636	0.7498	0.7546	0.7669	0.7908
Inland transport	0.3592	0.3837	0.3755	0.3809	0.3768	0.3823	0.3918	0.4112
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.5234	0.5380	0.5334	0.5373	0.5300	0.5377	0.5490	0.5709
Financial intermediation	0.2073	0.2293	0.2276	0.2334	0.2271	0.2174	0.2264	0.2473
Real estate activities	0.5676	0.5992	0.5962	0.6004	0.5926	0.5876	0.5983	0.6216
Renting of M&Eq and other business activities	0.6863	0.7100	0.7142	0.7189	0.7117	0.7044	0.7157	0.7397
Public administration and defense; compulsory social security	0.5886	0.6397	0.6229	0.6184	0.6038	0.6066	0.6169	0.6389
Education	0.3488	0.3611	0.3578	0.3574	0.3466	0.3429	0.3522	0.3728
Health and social work	0.2989	0.3085	0.3050	0.3054	0.2966	0.2978	0.3070	0.3259
Other community, social, and personal services	0.3376	0.3441	0.3442	0.3453	0.3363	0.3350	0.3473	0.3676
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 2.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.2504	0.1970	0.2103	0.2514	0.2834	0.2737	0.2772	0.2882
Mining and quarrying	0.4257	0.4556	0.4015	0.3854	0.3675	0.3621	0.3692	0.3814
Food, beverages, and tobacco	0.5770	0.5344	0.5647	0.6549	0.7161	0.7127	0.7063	0.7067
Textiles and textile products	0.9880	0.9897	0.9980	1.0368	1.0412	1.0309	1.0195	1.0118
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.4304	0.3449	0.3594	0.4154	0.4512	0.4466	0.4447	0.4465
Pulp, paper, paper products, printing, and publishing	0.7966	0.7474	0.7695	0.8221	0.8486	0.8332	0.8228	0.8226
Coke, refined petroleum, and nuclear fuel	2.0977	1.3930	1.6548	1.8416	1.5082	1.7429	1.7511	1.5846
Chemicals and chemical products	0.5869	0.5261	0.5460	0.6033	0.6406	0.6202	0.6118	0.6170
Rubber and plastics	1.2269	1.1658	1.1878	1.2323	1.2497	1.2309	1.2160	1.2084
Other nonmetallic minerals	0.6699	0.5796	0.5838	0.6049	0.6070	0.5932	0.5899	0.5914
Basic metals and fabricated metal	0.8511	0.7860	0.7973	0.8221	0.8255	0.8074	0.8027	0.7997
Machinery, nec	1.0946	1.4857	1.5014	1.5427	1.5463	1.5419	1.5242	1.5049
Electrical and optical equipment	1.0038	0.9803	0.9708	1.0292	1.0259	1.0299	1.0628	1.0388
Transport equipment	1.0396	0.9014	0.9129	0.9475	0.9573	0.9377	0.9340	0.9352
Manufacturing, nec; recycling	0.9512	0.8873	0.8932	0.9301	0.9400	0.9243	0.9204	0.9234
Electricity, gas, and water supply	1.1745	1.1424	1.1400	1.1847	1.1969	1.1957	1.1896	1.1785
Construction	0.7920	0.7695	0.7430	0.7148	0.6837	0.6744	0.6753	0.6809
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.5523	0.4803	0.5197	0.5439	0.5520	0.5418	0.5376	0.5378
Retail trade	0.5746	0.5361	0.5792	0.6088	0.6184	0.6069	0.6037	0.6069
Hotels and restaurants	0.3669	0.3321	0.3646	0.4084	0.4352	0.4295	0.4280	0.4337
Inland transport	0.6602	0.6501	0.6841	0.7007	0.6995	0.6904	0.6876	0.6853
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.4366	0.4172	0.4402	0.4552	0.4570	0.4540	0.4487	0.4544
Financial intermediation	0.1362	0.1038	0.1241	0.1251	0.1216	0.1141	0.1143	0.1228
Real estate activities	0.3226	0.2649	0.2823	0.2894	0.2874	0.2820	0.2776	0.2844
Renting of M&Eq and other business activities	0.4639	0.4659	0.4613	0.4729	0.4716	0.4602	0.4530	0.4561
Public administration and defense; compulsory social security	0.4972	0.4641	0.5117	0.5504	0.5710	0.5629	0.5517	0.5567
Education	0.1904	0.2004	0.2251	0.2615	0.2845	0.2753	0.2679	0.2806
Health and social work	0.3332	0.3387	0.3692	0.3979	0.4161	0.4011	0.3940	0.4055
Other community, social, and personal services	0.2434	0.2985	0.3133	0.3416	0.3563	0.3473	0.3504	0.3592
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 2.3.5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Textiles and textile products	0.0002	0.0001	0.0001	0.0001	0.0002	0.0002	0.0003	0.0002
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0001	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
Other nonmetallic minerals	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Basic metals and fabricated metal	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Machinery, nec	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
Transport equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Manufacturing, nec; recycling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001
Electricity, gas, and water supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Construction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 2.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	221	199	272	251	338	310	611	551	939	835	912	815	950	848	1,002	890
Low tech	2,080	1,328	2,574	1,662	2,889	1,855	3,188	2,027	3,860	2,444	4,279	2,736	4,747	3,050	5,248	3,390
High and medium tech	26	16	40	28	48	33	59	40	69	47	73	50	83	57	94	65
Utilities	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
Construction	44	31	7	5	11	8	103	76	20	15	24	18	31	23	37	28
Trade and repair services	408	318	526	428	655	520	711	560	764	599	813	643	909	719	1,005	794
Tourism	880	747	649	562	835	710	948	790	1,074	883	1,078	891	1,163	961	1,260	1,039
Transport services	194	144	200	150	252	185	268	196	297	218	316	234	360	267	395	293
ICT services	45	37	81	67	104	85	112	92	127	104	126	103	143	117	157	128
Finance and insurance services	25	23	9	9	13	12	14	13	17	16	18	17	20	19	23	21
Property services	46	37	31	26	52	44	52	44	64	54	65	55	76	65	88	75
Public and welfare services	71	57	40	33	54	43	75	60	89	71	92	74	100	81	109	87
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 2.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.504	1.132	0.506	0.962	0.529	1.013	0.864	1.231	1.183	1.467	1.208	1.461	1.172	1.424	1.078	1.364
Low tech	3.568	4.054	4.100	4.607	3.904	4.192	3.561	3.789	3.545	3.666	3.666	3.875	3.703	3.865	3.720	3.830
High and medium tech	0.014	0.034	0.019	0.044	0.020	0.044	0.021	0.047	0.020	0.045	0.020	0.046	0.021	0.048	0.022	0.050
Utilities	0.005	0.107	0.009	0.074	0.009	0.085	0.022	0.085	0.035	0.094	0.033	0.094	0.027	0.097	0.031	0.104
Construction	2.792	1.202	0.441	0.413	0.516	0.485	3.112	1.656	0.520	0.549	0.571	0.744	0.586	1.000	0.759	1.253
Trade and repair services	1.290	1.112	1.536	1.224	1.566	1.217	1.479	1.160	1.328	1.098	1.301	1.087	1.313	1.114	1.331	1.131
Tourism	20.647	10.967	13.873	8.438	15.359	8.916	14.566	8.691	13.527	8.264	12.824	7.709	11.006	7.036	12.433	7.288
Transport services	0.807	1.122	0.809	1.226	0.847	1.234	0.789	1.187	0.728	1.141	0.717	1.137	0.752	1.196	0.749	1.183
ICT services	1.662	1.375	2.900	1.725	2.850	1.792	2.665	1.732	2.495	1.699	2.294	1.536	2.264	1.484	2.134	1.288
Finance and insurance services	0.200	0.194	0.072	0.141	0.085	0.157	0.074	0.156	0.074	0.156	0.073	0.152	0.072	0.156	0.077	0.169
Property services	0.173	0.197	0.108	0.190	0.156	0.263	0.125	0.253	0.123	0.252	0.114	0.238	0.117	0.251	0.123	0.275
Public and welfare services	0.942	0.648	0.520	0.440	0.575	0.481	0.633	0.515	0.639	0.515	0.594	0.490	0.551	0.474	0.608	0.504
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

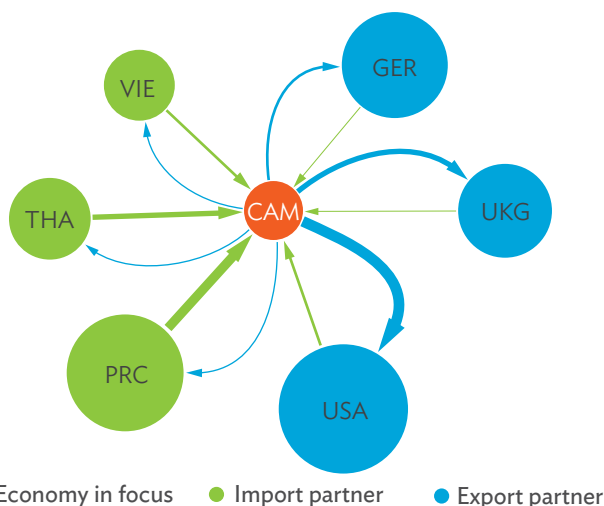
Source: Asian Development Bank Multi-Regional Input-Output Database.

# 2.4

## GLOBAL VALUE CHAIN INDICATORS

### Cambodia

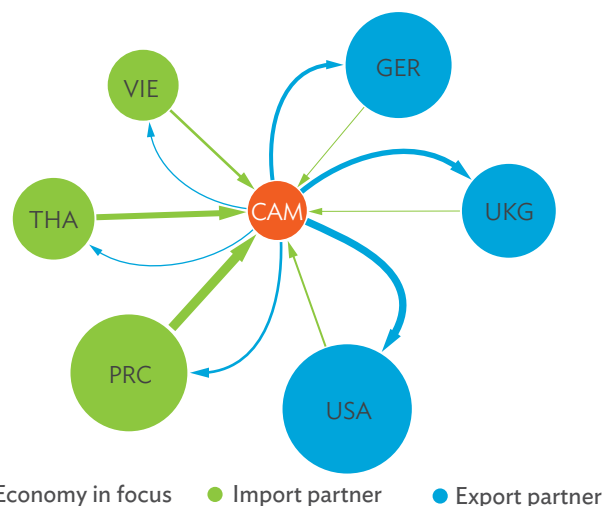
**Figure 2.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



CAM = Cambodia, GER = Germany, PRC = People's Republic of China, THA = Thailand, UKG = United Kingdom, USA = United States, VIE = Viet Nam. Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added. Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

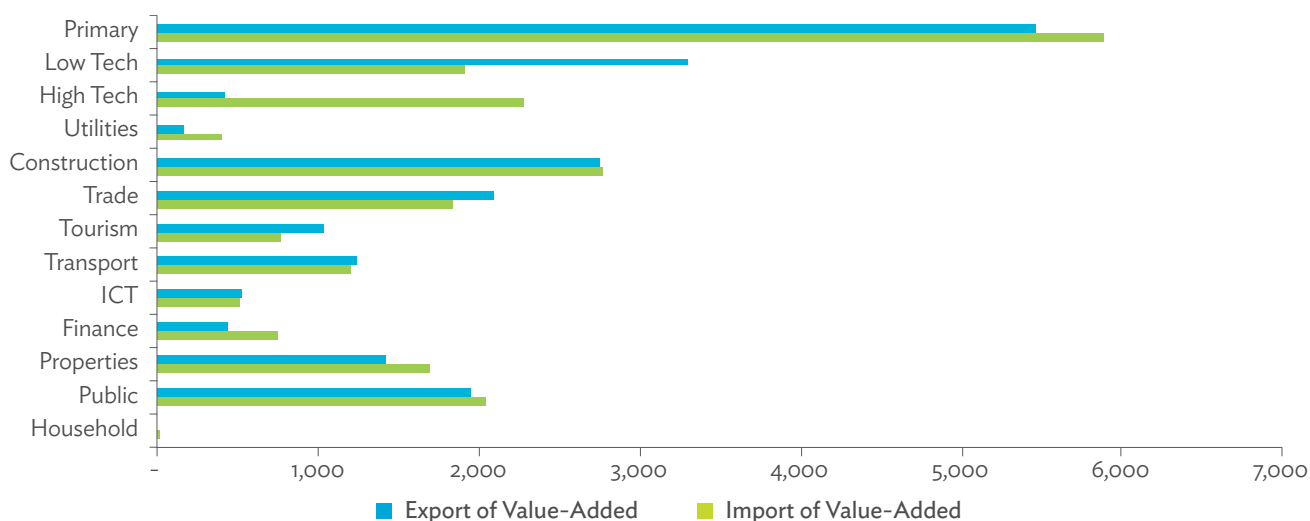
**Figure 2.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



CAM = Cambodia, GER = Germany, PRC = People's Republic of China, THA = Thailand, UKG = United Kingdom, USA = United States, VIE = Viet Nam. Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added. Source: Asian Development Bank Multi-Regional Input–Output Database.

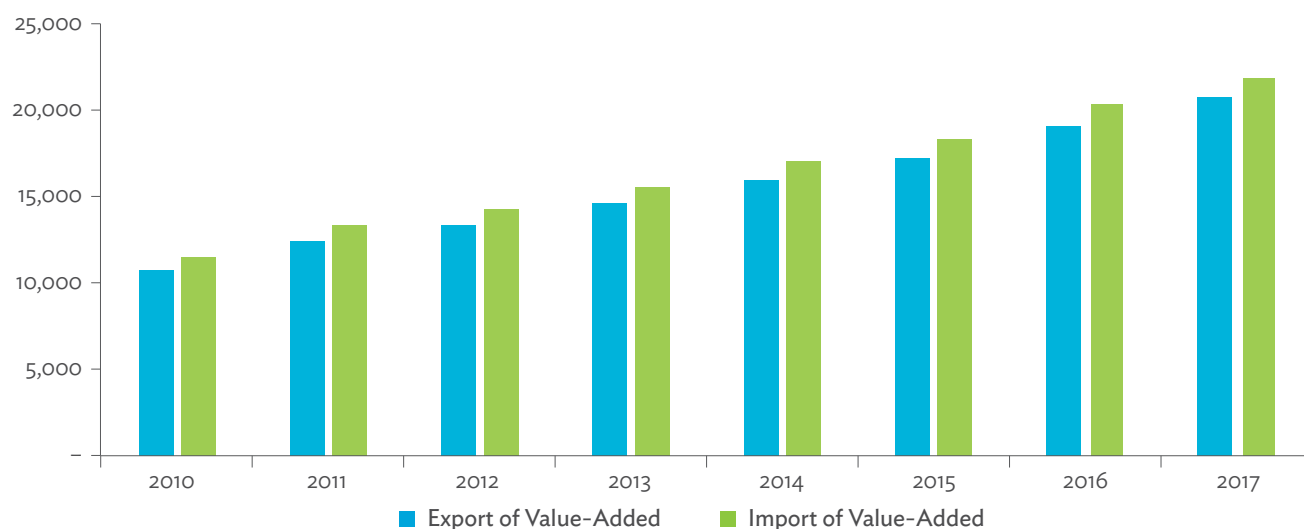
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**Figure 2.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology. Source: Asian Development Bank Multi-Regional Input–Output Database.

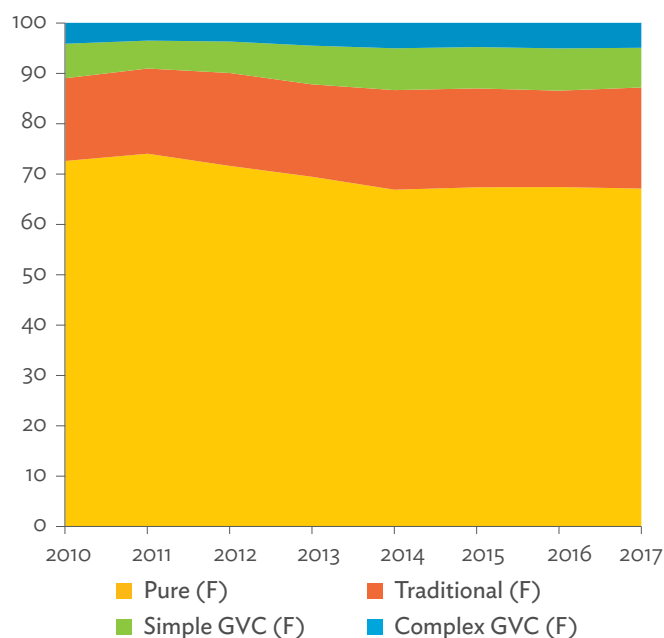
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**Figure 2.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

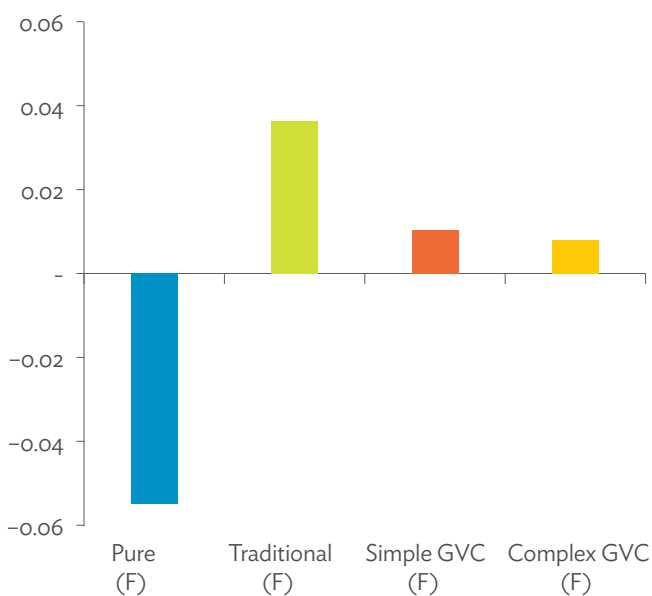
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**Figure 2.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

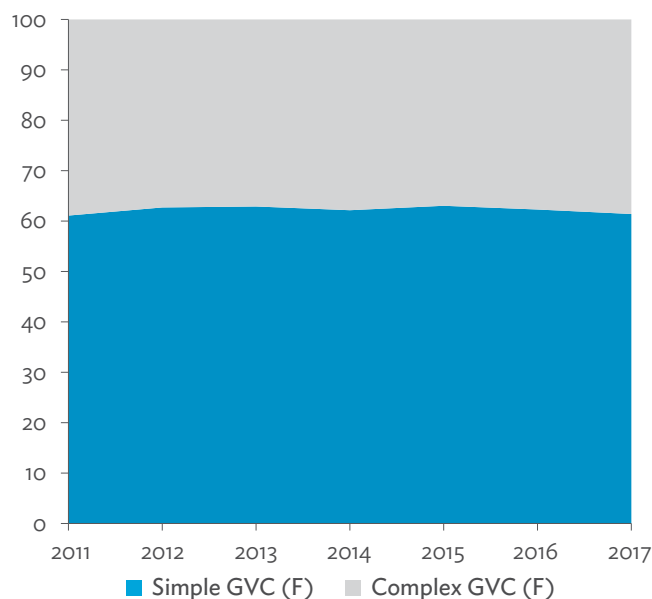
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

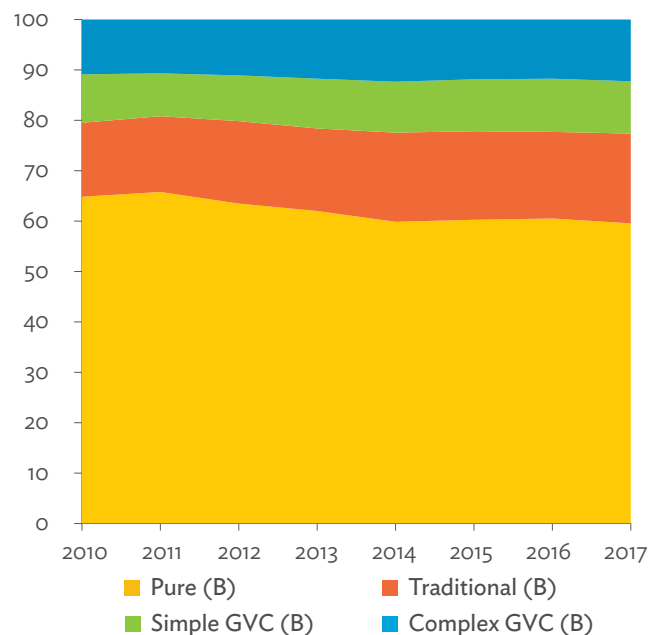


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

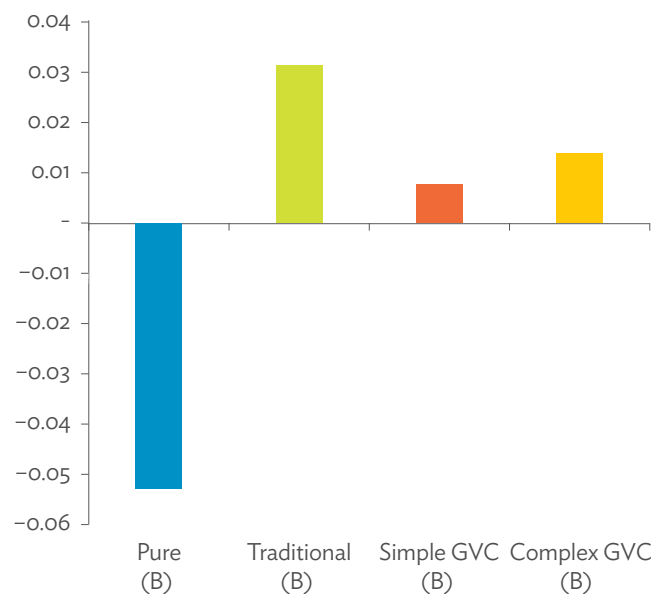


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



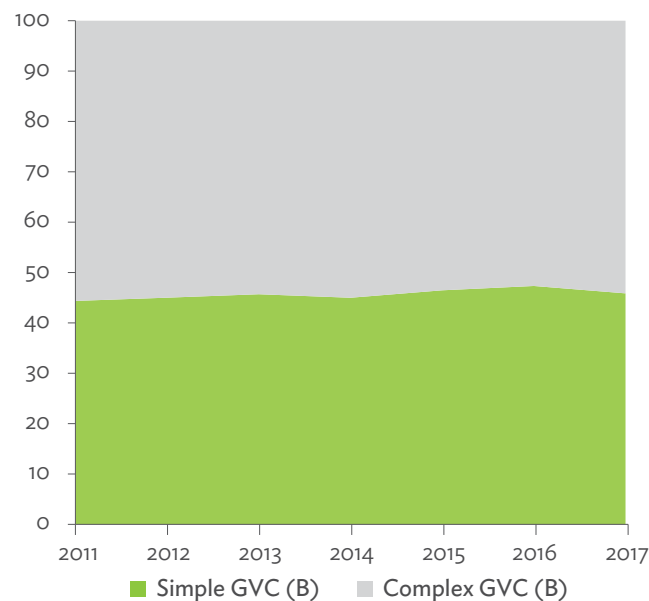
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

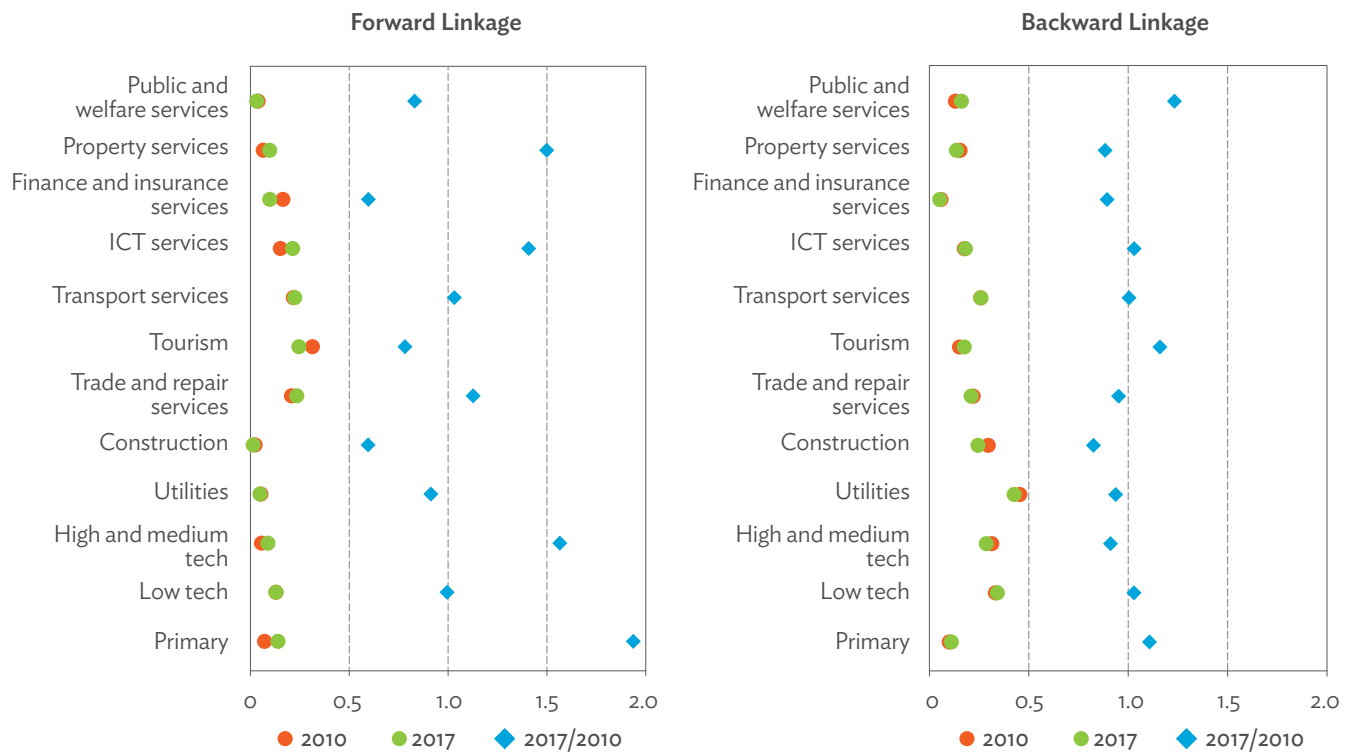


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

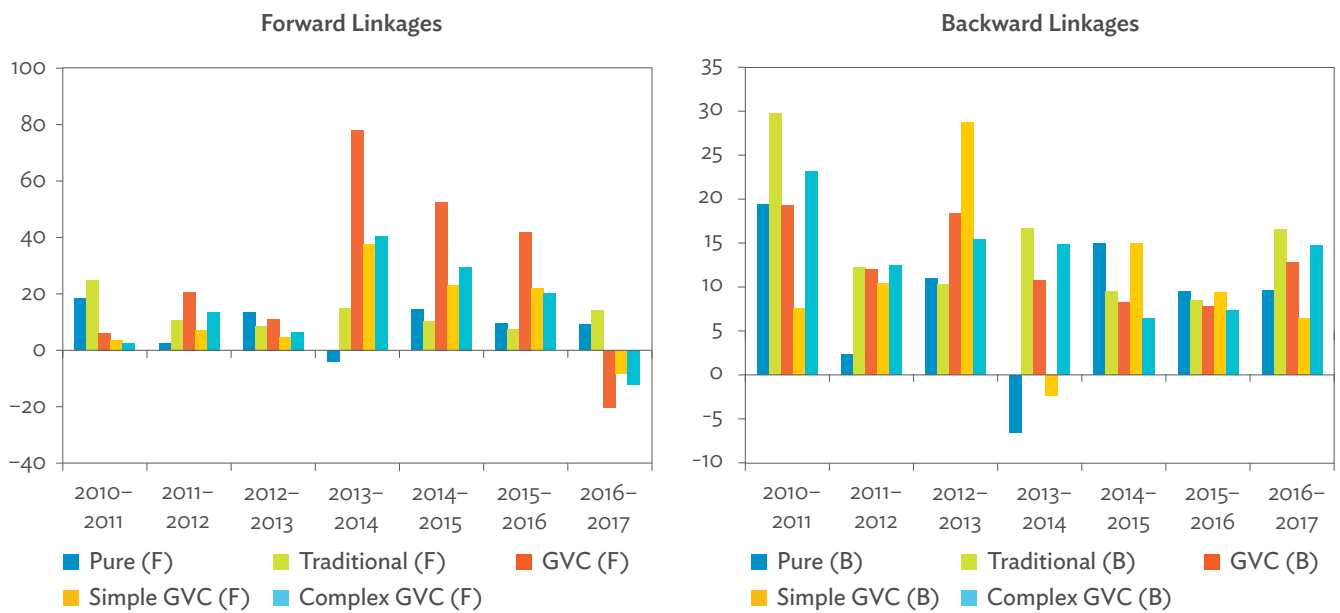


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

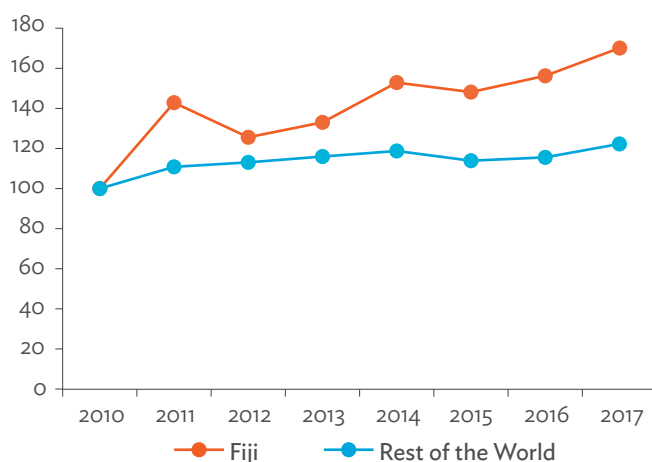


# 3.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Fiji

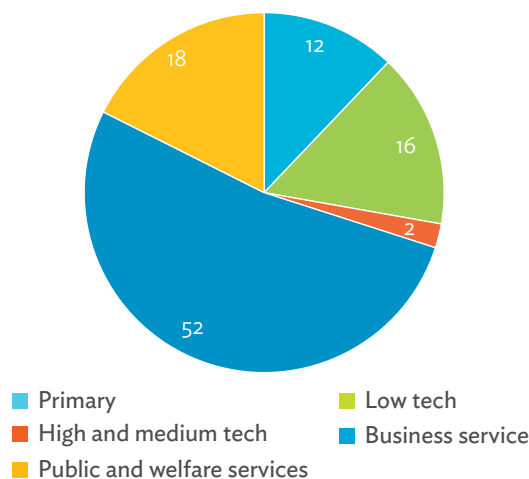
**Figure 3.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

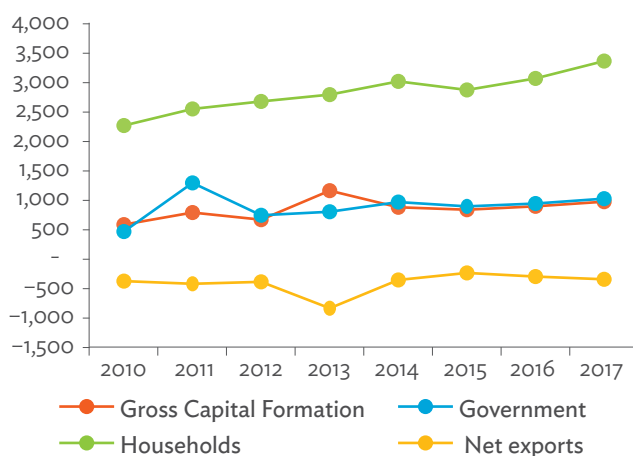
**Figure 3.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

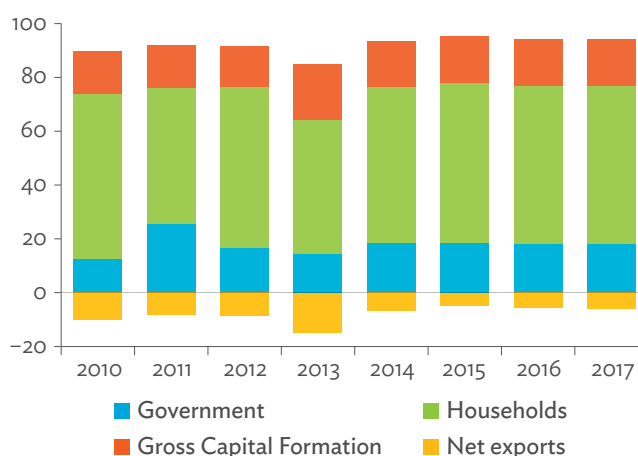


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

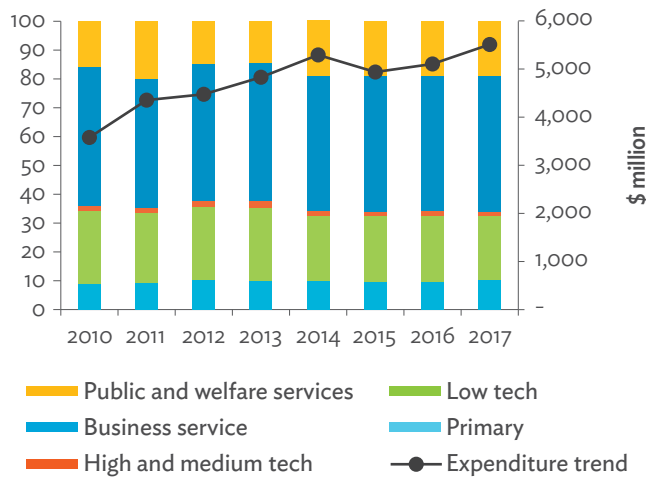
**Figure 3.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

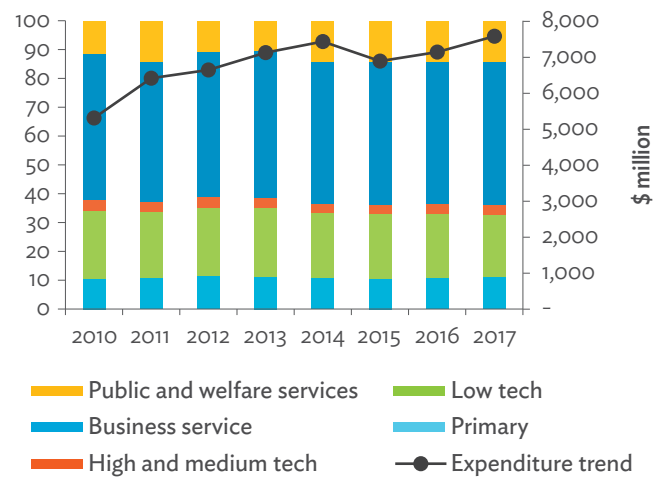


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

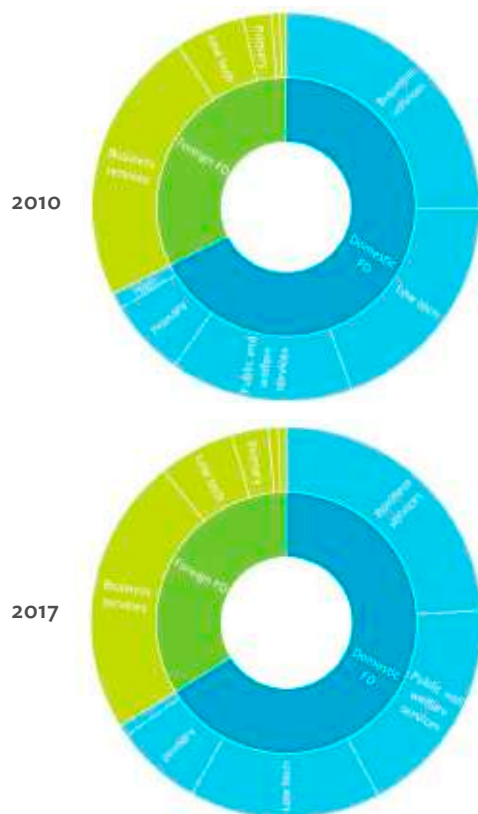


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

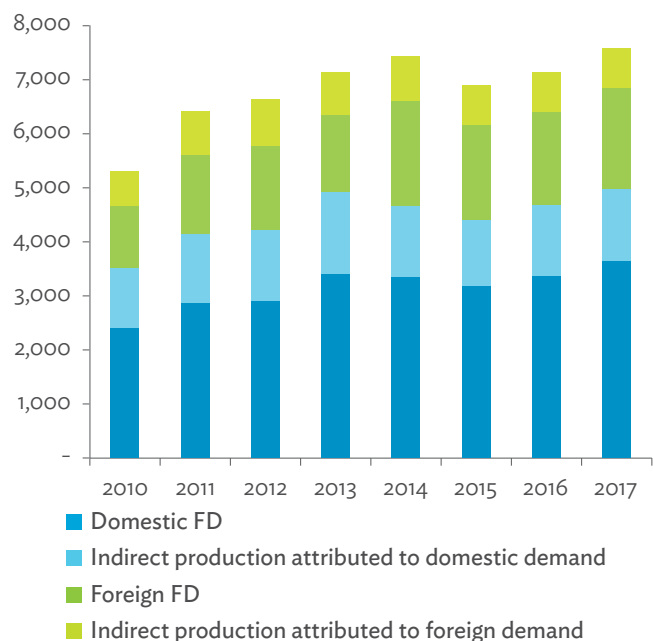


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

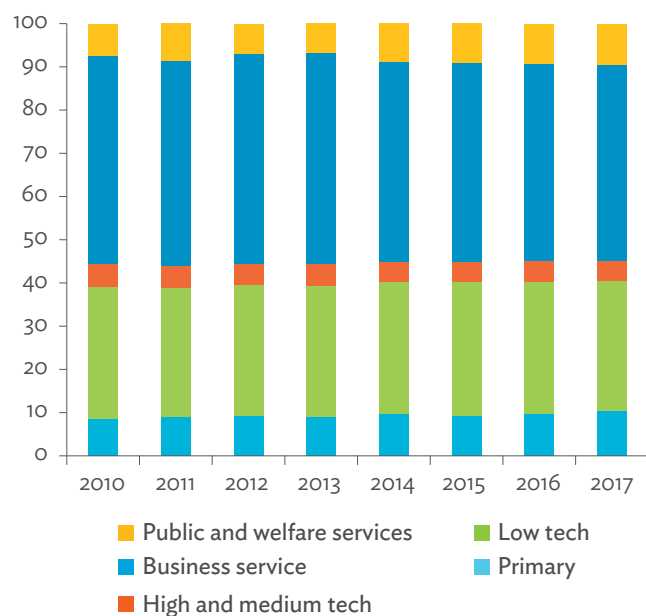


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

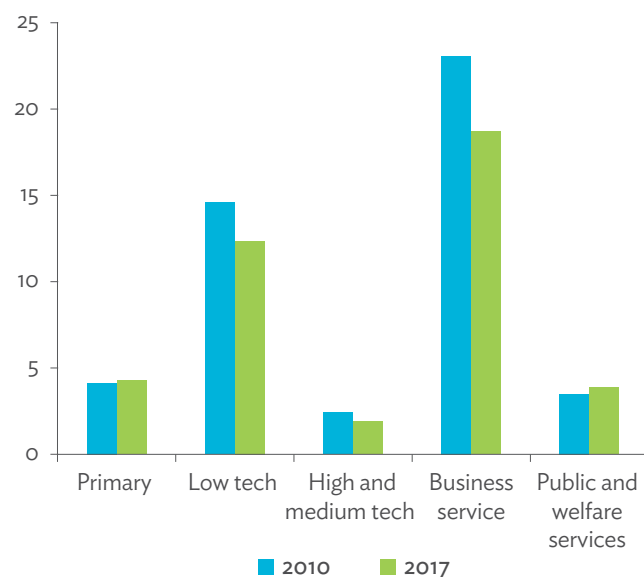
**Figure 3.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

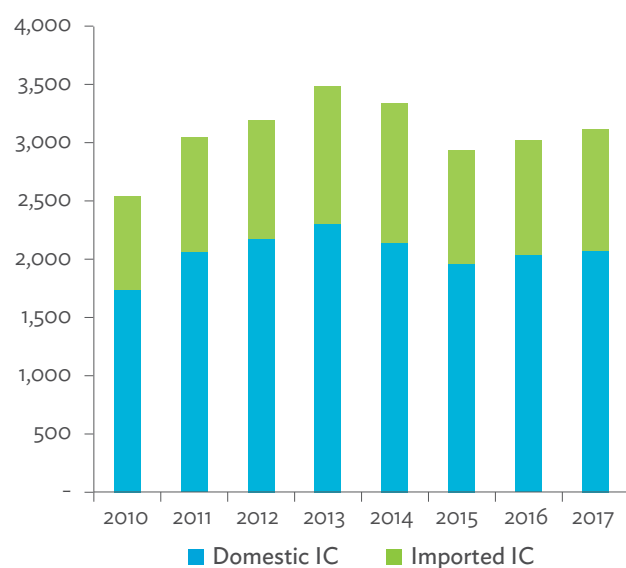
**Figure 3.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

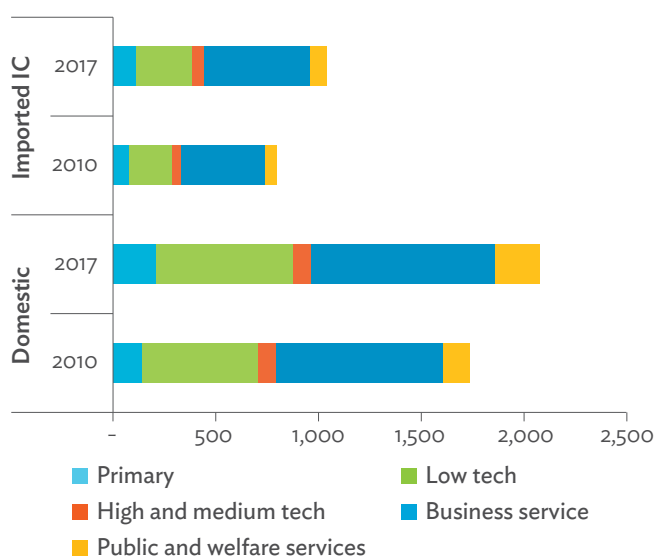


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

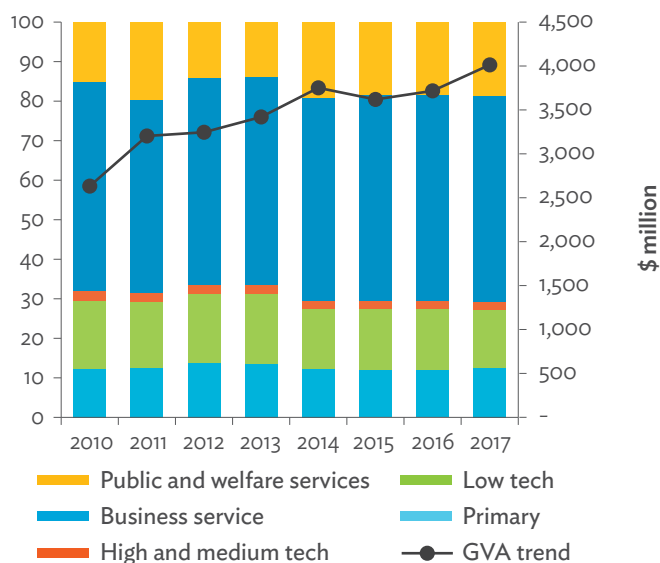


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

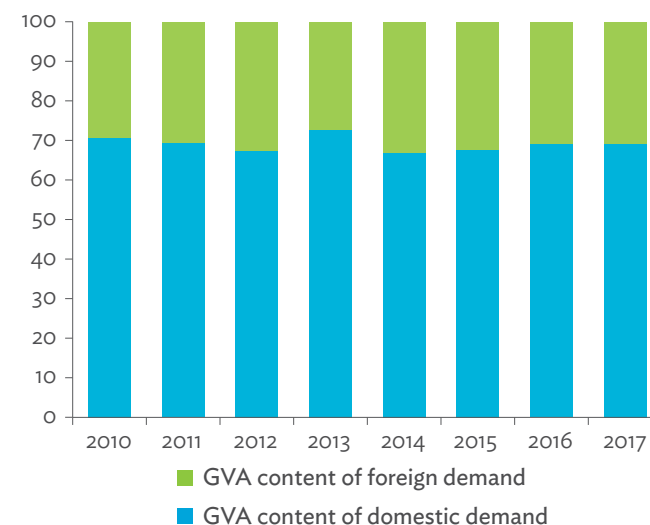


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

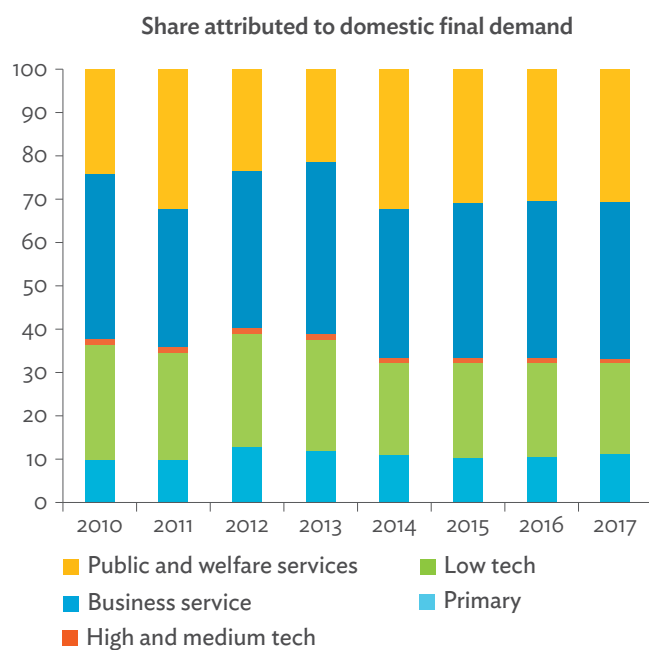


GVA = gross value added.

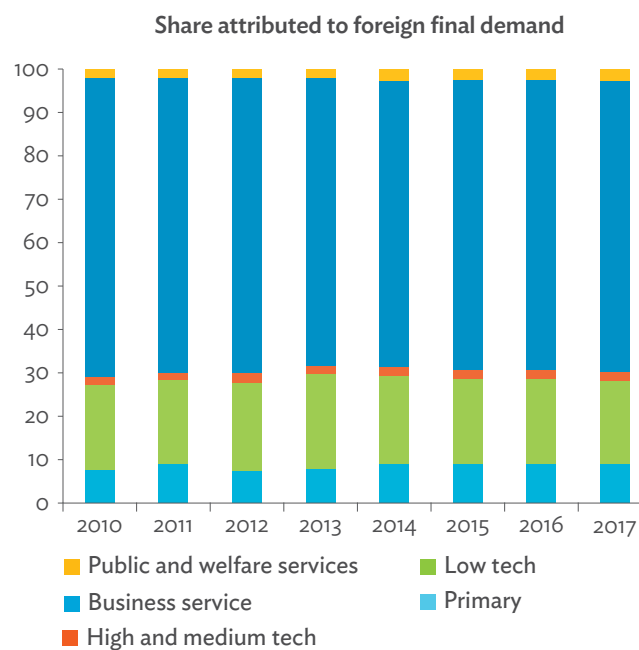
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.



[Click here for figure data](#)

**Table 3.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.791	0.790	0.798	0.784	0.768	0.793	0.783	0.780
Mining and quarrying	0.623	0.660	0.634	0.563	0.507	0.540	0.536	0.493
Food, beverages, and tobacco	0.709	0.703	0.705	0.686	0.664	0.686	0.681	0.677
Textiles and textile products	0.802	0.802	0.798	0.785	0.761	0.782	0.762	0.760
Leather, leather products, and footwear	0.621	0.612	0.604	0.585	0.542	0.560	0.548	0.541
Wood and products of wood and cork	0.742	0.755	0.758	0.742	0.724	0.745	0.740	0.736
Pulp, paper, paper products, printing, and publishing	0.680	0.654	0.655	0.634	0.614	0.633	0.638	0.637
Coke, refined petroleum, and nuclear fuel	0.000	0.107	0.000	0.000	0.000	0.000	0.000	0.000
Chemicals and chemical products	0.632	0.631	0.629	0.608	0.558	0.587	0.578	0.572
Rubber and plastics	0.444	0.432	0.432	0.409	0.369	0.394	0.391	0.383
Other nonmetallic minerals	0.675	0.680	0.673	0.639	0.611	0.629	0.625	0.609
Basic metals and fabricated metal	0.518	0.506	0.506	0.484	0.457	0.480	0.476	0.470
Machinery, nec	0.687	0.675	0.677	0.658	0.648	0.676	0.668	0.671
Electrical and optical equipment	0.000	0.583	0.000	0.000	0.008	0.011	0.006	0.121
Transport equipment	0.669	0.658	0.657	0.638	0.605	0.639	0.614	0.612
Manufacturing, nec; recycling	0.761	0.758	0.755	0.740	0.715	0.733	0.723	0.718
Electricity, gas, and water supply	0.483	0.526	0.522	0.485	0.431	0.500	0.495	0.468
Construction	0.702	0.684	0.685	0.679	0.646	0.658	0.653	0.652
Sale, maintenance, and repair	0.823	0.816	0.814	0.801	0.778	0.830	0.816	0.808
Wholesale trade and commission trade	0.776	0.767	0.768	0.754	0.743	0.787	0.783	0.777
Retail trade	0.815	0.810	0.807	0.794	0.781	0.831	0.823	0.815
Hotels and restaurants	0.734	0.735	0.737	0.723	0.689	0.705	0.696	0.692
Inland transport	0.596	0.594	0.607	0.593	0.581	0.592	0.566	0.592
Water transport	0.495	0.493	0.506	0.491	0.436	0.489	0.484	0.500
Air transport	0.408	0.405	0.420	0.404	0.328	0.378	0.385	0.385
Other supporting and auxiliary transport activities	0.692	0.691	0.699	0.687	0.690	0.752	0.745	0.774
Post and telecommunications	0.825	0.828	0.808	0.794	0.788	0.806	0.795	0.791
Financial intermediation	0.847	0.828	0.833	0.825	0.804	0.805	0.800	0.796
Real estate activities	0.904	0.896	0.897	0.888	0.863	0.866	0.861	0.855
Renting of M&Eq and other business activities	0.773	0.758	0.761	0.739	0.769	0.783	0.777	0.775
Public administration and defense; compulsory social security	0.809	0.833	0.797	0.783	0.828	0.852	0.848	0.854
Education	0.848	0.879	0.836	0.824	0.851	0.842	0.838	0.832
Health and social work	0.815	0.842	0.802	0.786	0.833	0.844	0.837	0.838
Other community, social, and personal services	0.724	0.716	0.706	0.685	0.445	0.457	0.440	0.431
Private households with employed persons	0.838	0.833	0.827	0.814	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.176	0.180	0.167	0.180	0.179	0.151	0.152	0.155
Mining and quarrying	0.338	0.306	0.323	0.389	0.415	0.379	0.371	0.405
Food, beverages, and tobacco	0.251	0.259	0.250	0.268	0.269	0.241	0.236	0.236
Textiles and textile products	0.148	0.149	0.144	0.155	0.151	0.123	0.130	0.125
Leather, leather products, and footwear	0.280	0.293	0.283	0.301	0.291	0.261	0.250	0.244
Wood and products of wood and cork	0.227	0.213	0.205	0.220	0.221	0.196	0.193	0.194
Pulp, paper, paper products, printing, and publishing	0.282	0.310	0.303	0.323	0.324	0.300	0.283	0.279
Coke, refined petroleum, and nuclear fuel	0.896	0.805	0.884	0.889	0.000	0.000	0.000	0.000
Chemicals and chemical products	0.308	0.312	0.302	0.322	0.338	0.298	0.291	0.288
Rubber and plastics	0.498	0.513	0.501	0.525	0.533	0.499	0.486	0.486
Other nonmetallic minerals	0.289	0.287	0.287	0.319	0.326	0.303	0.297	0.308
Basic metals and fabricated metal	0.429	0.444	0.434	0.456	0.455	0.424	0.414	0.413
Machinery, nec	0.286	0.300	0.292	0.311	0.309	0.277	0.278	0.272
Electrical and optical equipment	0.000	0.153	0.000	0.000	0.593	0.977	0.523	0.354
Transport equipment	0.272	0.286	0.275	0.294	0.294	0.248	0.263	0.256
Manufacturing, nec; recycling	0.189	0.193	0.186	0.200	0.196	0.172	0.169	0.167
Electricity, gas, and water supply	0.455	0.421	0.414	0.449	0.466	0.382	0.371	0.387
Construction	0.260	0.279	0.271	0.278	0.289	0.275	0.269	0.266
Sale, maintenance, and repair	0.146	0.153	0.149	0.161	0.163	0.113	0.119	0.124
Wholesale trade and commission trade	0.190	0.200	0.193	0.206	0.200	0.156	0.152	0.156
Retail trade	0.153	0.159	0.155	0.167	0.163	0.114	0.115	0.120
Hotels and restaurants	0.211	0.214	0.204	0.217	0.219	0.198	0.193	0.190
Inland transport	0.352	0.357	0.336	0.350	0.341	0.332	0.350	0.319
Water transport	0.429	0.436	0.412	0.428	0.441	0.379	0.366	0.338
Air transport	0.516	0.524	0.497	0.514	0.547	0.482	0.449	0.439
Other supporting and auxiliary transport activities	0.257	0.261	0.245	0.258	0.234	0.167	0.163	0.130
Post and telecommunications	0.142	0.142	0.152	0.165	0.155	0.135	0.136	0.137
Financial intermediation	0.128	0.145	0.137	0.145	0.150	0.145	0.142	0.143
Real estate activities	0.077	0.085	0.081	0.089	0.098	0.091	0.090	0.091
Renting of M&Eq and other business activities	0.191	0.206	0.197	0.217	0.178	0.160	0.158	0.157
Public administration and defense; compulsory social security	0.160	0.142	0.167	0.180	0.133	0.107	0.104	0.098
Education	0.129	0.104	0.136	0.147	0.116	0.120	0.119	0.122
Health and social work	0.158	0.137	0.167	0.175	0.131	0.119	0.120	0.117
Other community, social, and personal services	0.214	0.223	0.220	0.254	0.350	0.318	0.312	0.300
Private households with employed persons	0.129	0.135	0.133	0.144	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 3.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.357	1.357	1.360	1.353	1.335	1.309	1.320	1.309
Mining and quarrying	1.412	1.437	1.419	1.372	1.516	1.522	1.527	1.538
Food, beverages, and tobacco	1.791	1.784	1.785	1.768	1.687	1.679	1.679	1.653
Textiles and textile products	1.479	1.479	1.477	1.469	1.374	1.333	1.363	1.334
Leather, leather products, and footwear	1.659	1.650	1.642	1.623	1.492	1.482	1.475	1.439
Wood and products of wood and cork	1.784	1.800	1.801	1.788	1.719	1.704	1.707	1.682
Pulp, paper, paper products, printing, and publishing	1.386	1.372	1.372	1.360	1.258	1.271	1.266	1.241
Coke, refined petroleum, and nuclear fuel	1.000	1.201	1.000	1.000	1.000	1.000	1.000	1.000
Chemicals and chemical products	1.727	1.725	1.723	1.704	1.604	1.588	1.587	1.557
Rubber and plastics	1.447	1.435	1.436	1.413	1.277	1.306	1.314	1.281
Other nonmetallic minerals	1.768	1.769	1.764	1.737	1.714	1.717	1.720	1.702
Basic metals and fabricated metal	1.679	1.663	1.664	1.636	1.511	1.529	1.533	1.498
Machinery, nec	1.266	1.259	1.261	1.252	1.143	1.151	1.162	1.141
Electrical and optical equipment	1.000	2.097	1.000	1.000	1.015	1.019	1.010	1.206
Transport equipment	1.360	1.352	1.354	1.344	1.233	1.213	1.238	1.215
Manufacturing, nec; recycling	1.752	1.750	1.747	1.734	1.636	1.612	1.615	1.583
Electricity, gas, and water supply	1.302	1.329	1.326	1.303	1.437	1.402	1.405	1.392
Construction	1.611	1.596	1.597	1.593	1.649	1.665	1.667	1.625
Sale, maintenance, and repair	1.424	1.421	1.420	1.413	1.369	1.285	1.301	1.299
Wholesale trade and commission trade	1.438	1.432	1.434	1.425	1.359	1.310	1.311	1.306
Retail trade	1.420	1.418	1.417	1.410	1.378	1.293	1.303	1.302
Hotels and restaurants	1.626	1.627	1.629	1.618	1.542	1.539	1.538	1.507
Inland transport	1.364	1.363	1.372	1.363	1.019	1.045	1.057	1.034
Water transport	1.458	1.457	1.469	1.457	1.174	1.183	1.188	1.151
Air transport	1.447	1.445	1.461	1.447	1.200	1.220	1.220	1.185
Other supporting and auxiliary transport activities	1.487	1.487	1.493	1.485	1.159	1.130	1.132	1.096
Post and telecommunications	1.335	1.336	1.328	1.322	1.276	1.265	1.275	1.262
Financial intermediation	1.298	1.291	1.293	1.290	1.269	1.284	1.285	1.274
Real estate activities	1.382	1.378	1.379	1.374	1.374	1.377	1.379	1.373
Renting of M&Eq and other business activities	1.388	1.380	1.382	1.370	1.512	1.502	1.503	1.487
Public administration and defense; compulsory social security	1.274	1.282	1.270	1.264	1.256	1.226	1.227	1.205
Education	1.232	1.241	1.229	1.225	1.312	1.355	1.360	1.357
Health and social work	1.256	1.264	1.252	1.245	1.245	1.244	1.254	1.236
Other community, social, and personal services	1.705	1.698	1.688	1.670	1.175	1.188	1.196	1.167
Private households with employed persons	1.441	1.438	1.436	1.428	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

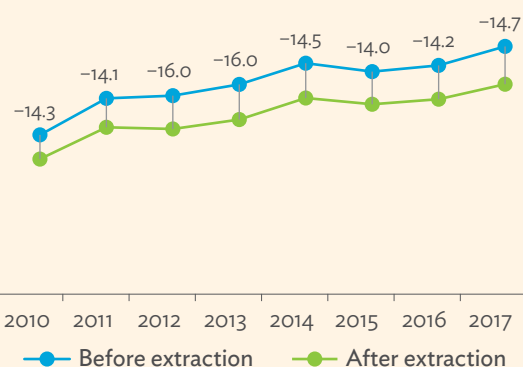
Source: Asian Development Bank Multi-Regional Input-Output Database.





### Box 3: Hypothetical Extraction of Agriculture, Hunting, Forestry, and Fishing Industry in Fiji

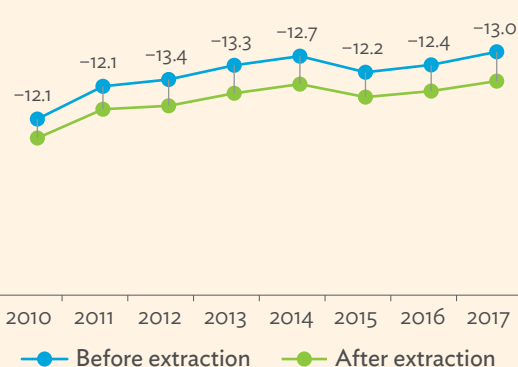
**Figure 3.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

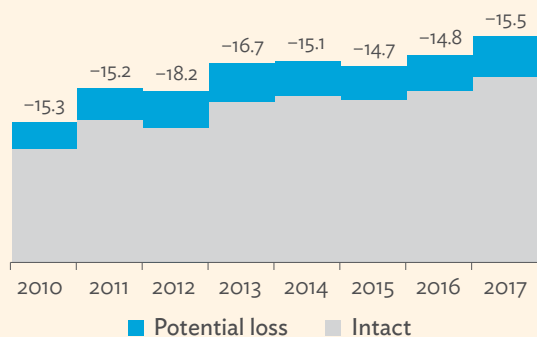
**Figure 3.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

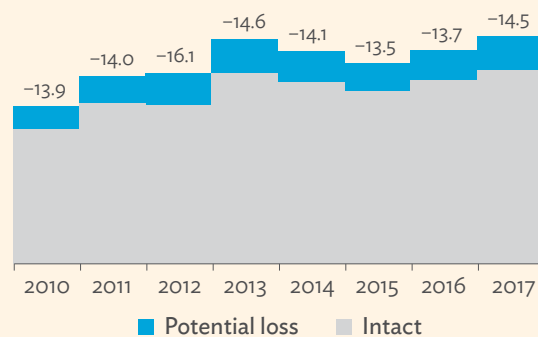
**Figure 3.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

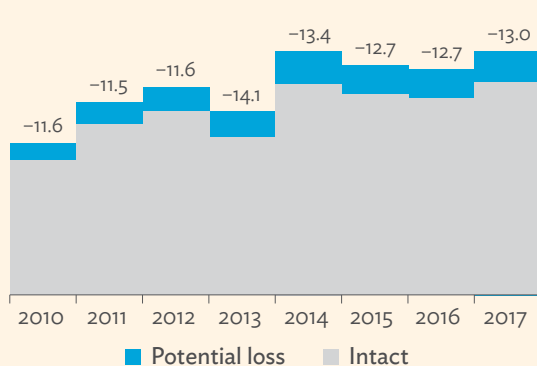
**Figure 3.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

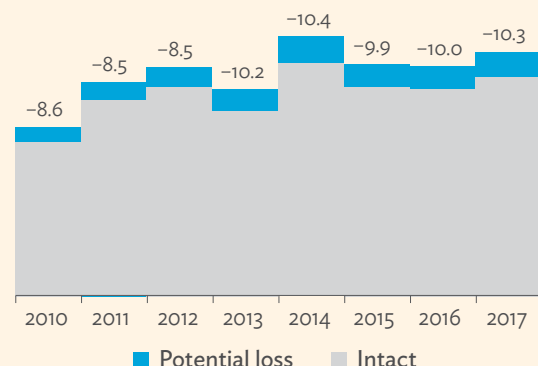
**Figure 3.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 3.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 3.2.1: Input-Output Backward Linkage**



Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.936	0.913	0.939	0.942	0.990	0.976	0.981	0.982
Mining and quarrying	0.974	0.967	0.980	0.955	1.124	1.135	1.134	1.154
Food, beverages, and tobacco	1.235	1.200	1.233	1.231	1.251	1.252	1.247	1.241
Textiles and textile products	1.020	0.995	1.020	1.023	1.019	0.994	1.012	1.001
Leather, leather products, and footwear	1.144	1.110	1.134	1.130	1.106	1.105	1.096	1.080
Wood and products of wood and cork	1.230	1.211	1.244	1.245	1.274	1.270	1.268	1.263
Pulp, paper, paper products, printing, and publishing	0.956	0.923	0.947	0.947	0.933	0.947	0.941	0.931
Coke, refined petroleum, and nuclear fuel	0.690	0.808	0.691	0.696	0.741	0.746	0.743	0.750
Chemicals and chemical products	1.191	1.161	1.190	1.187	1.189	1.184	1.179	1.168
Rubber and plastics	0.998	0.966	0.991	0.984	0.946	0.974	0.976	0.961
Other nonmetallic minerals	1.219	1.190	1.218	1.210	1.271	1.280	1.278	1.277
Basic metals and fabricated metal	1.158	1.119	1.149	1.139	1.120	1.140	1.139	1.124
Machinery, nec	0.873	0.847	0.871	0.872	0.847	0.858	0.863	0.856
Electrical and optical equipment	0.690	1.411	0.691	0.696	0.752	0.760	0.750	0.905
Transport equipment	0.938	0.910	0.935	0.936	0.914	0.904	0.920	0.912
Manufacturing, nec; recycling	1.208	1.178	1.207	1.208	1.213	1.202	1.200	1.188
Electricity, gas, and water supply	0.898	0.894	0.916	0.908	1.065	1.045	1.043	1.044
Construction	1.111	1.074	1.103	1.110	1.222	1.241	1.239	1.219
Sale, maintenance, and repair	0.982	0.956	0.981	0.984	1.014	0.958	0.966	0.975
Wholesale trade and commission trade	0.991	0.964	0.990	0.993	1.008	0.977	0.974	0.980
Retail trade	0.979	0.954	0.979	0.982	1.021	0.964	0.968	0.977
Hotels and restaurants	1.122	1.095	1.125	1.127	1.143	1.148	1.143	1.131
Inland transport	0.941	0.917	0.947	0.949	0.755	0.779	0.785	0.776
Water transport	1.005	0.980	1.015	1.015	0.870	0.882	0.883	0.864
Air transport	0.998	0.973	1.009	1.008	0.889	0.909	0.906	0.889
Other supporting and auxiliary transport activities	1.025	1.000	1.031	1.034	0.859	0.842	0.841	0.823
Post and telecommunications	0.920	0.899	0.917	0.920	0.946	0.943	0.947	0.947
Financial intermediation	0.895	0.869	0.893	0.898	0.940	0.957	0.954	0.956
Real estate activities	0.953	0.928	0.952	0.957	1.018	1.027	1.025	1.031
Renting of M&Eq and other business activities	0.957	0.929	0.954	0.954	1.120	1.120	1.116	1.116
Public administration and defense; compulsory social security	0.879	0.863	0.877	0.881	0.931	0.914	0.912	0.904
Education	0.850	0.835	0.849	0.853	0.973	1.010	1.010	1.018
Health and social work	0.866	0.851	0.864	0.867	0.923	0.927	0.931	0.928
Other community, social, and personal services	1.176	1.142	1.166	1.163	0.871	0.886	0.888	0.876
Private households with employed persons	0.994	0.968	0.991	0.994	0.741	0.746	0.743	0.750
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.997	0.990	0.967	0.965	0.949	0.949	0.945	0.935
Mining and quarrying	1.136	1.049	1.097	1.175	1.193	1.290	1.309	1.354
Food, beverages, and tobacco	0.771	0.775	0.777	0.779	0.789	0.793	0.793	0.794
Textiles and textile products	0.999	1.013	1.004	1.002	0.981	0.963	0.971	0.960
Leather, leather products, and footwear	1.063	1.080	1.056	1.048	1.051	1.029	1.025	1.007
Wood and products of wood and cork	1.059	1.065	1.070	1.074	1.062	1.063	1.068	1.053
Pulp, paper, paper products, printing, and publishing	1.257	1.269	1.239	1.228	1.267	1.262	1.255	1.254
Coke, refined petroleum, and nuclear fuel	0.663	0.662	0.663	0.665	0.679	0.683	0.682	0.691
Chemicals and chemical products	1.391	1.434	1.402	1.363	1.412	1.427	1.427	1.430
Rubber and plastics	1.537	1.508	1.516	1.492	1.427	1.423	1.420	1.421
Other nonmetallic minerals	1.494	1.482	1.488	1.488	1.427	1.426	1.425	1.429
Basic metals and fabricated metal	1.240	1.214	1.225	1.222	1.232	1.238	1.242	1.228
Machinery, nec	1.052	1.058	1.069	1.059	1.013	0.998	0.993	0.985
Electrical and optical equipment	0.662	0.662	0.663	0.665	0.679	0.683	0.682	0.691
Transport equipment	0.788	0.789	0.793	0.794	0.788	0.784	0.776	0.778
Manufacturing, nec; recycling	1.049	1.059	1.066	1.063	1.013	0.997	0.992	0.984
Electricity, gas, and water supply	1.506	1.414	1.412	1.405	1.424	1.409	1.405	1.405
Construction	0.678	0.678	0.679	0.681	0.696	0.700	0.696	0.704
Sale, maintenance, and repair	0.949	0.968	0.963	0.962	0.959	0.950	0.947	0.939
Wholesale trade and commission trade	1.140	1.174	1.165	1.161	1.110	1.102	1.098	1.089
Retail trade	0.744	0.748	0.748	0.750	0.757	0.758	0.757	0.760
Hotels and restaurants	0.696	0.694	0.694	0.695	0.707	0.716	0.722	0.724
Inland transport	1.004	0.978	0.966	0.950	0.988	0.981	0.979	0.976
Water transport	0.787	0.782	0.777	0.773	0.790	0.787	0.785	0.788
Air transport	0.899	0.893	0.881	0.870	0.886	0.901	0.919	0.913
Other supporting and auxiliary transport activities	0.973	0.961	0.946	0.935	0.940	0.951	0.966	0.960
Post and telecommunications	1.354	1.316	1.408	1.412	1.294	1.282	1.281	1.280
Financial intermediation	1.142	1.228	1.191	1.169	1.224	1.207	1.203	1.200
Real estate activities	1.083	1.118	1.111	1.136	1.152	1.131	1.128	1.127
Renting of M&Eq and other business activities	1.197	1.233	1.222	1.249	0.927	0.925	0.920	0.916
Public administration and defense; compulsory social security	0.663	0.662	0.663	0.666	0.679	0.683	0.682	0.691
Education	0.674	0.670	0.675	0.677	0.685	0.688	0.687	0.695
Health and social work	0.676	0.673	0.679	0.681	0.687	0.691	0.689	0.698
Other community, social, and personal services	0.812	0.820	0.833	0.841	1.454	1.448	1.449	1.450
Private households with employed persons	0.865	0.877	0.895	0.905	0.679	0.683	0.682	0.691
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

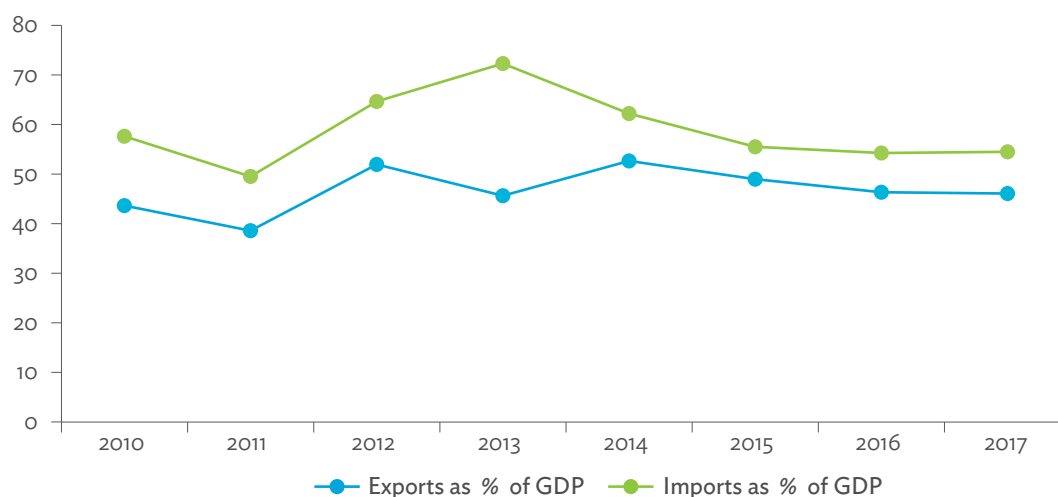
Source: Asian Development Bank Multi-Regional Input-Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 3.3

### Fiji

**Figure 3.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

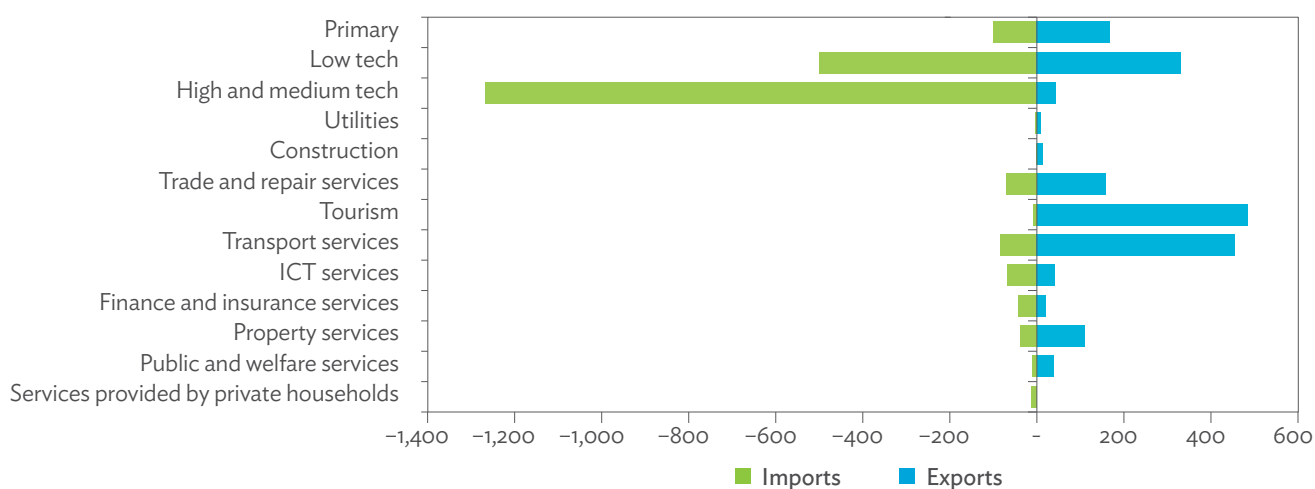


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

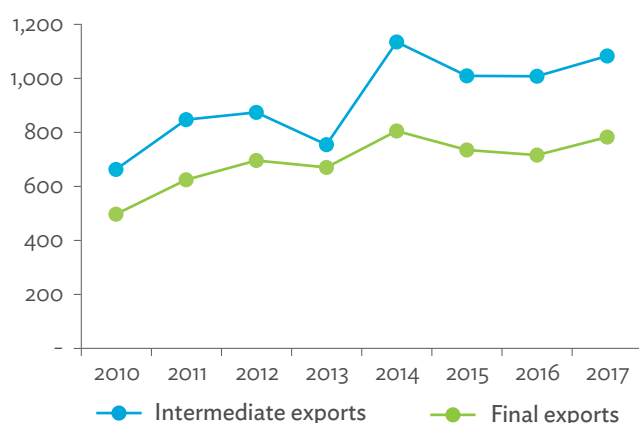


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**



\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

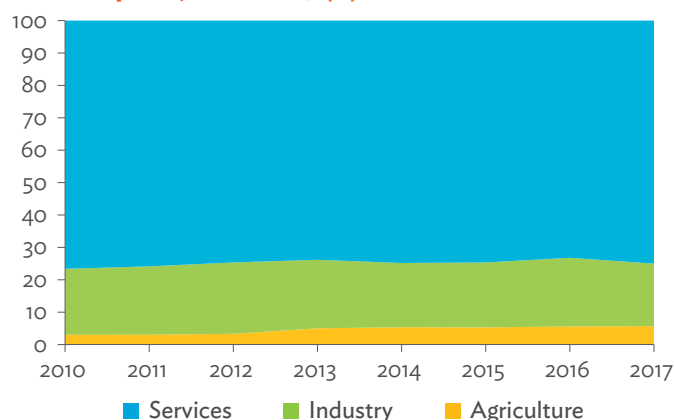


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

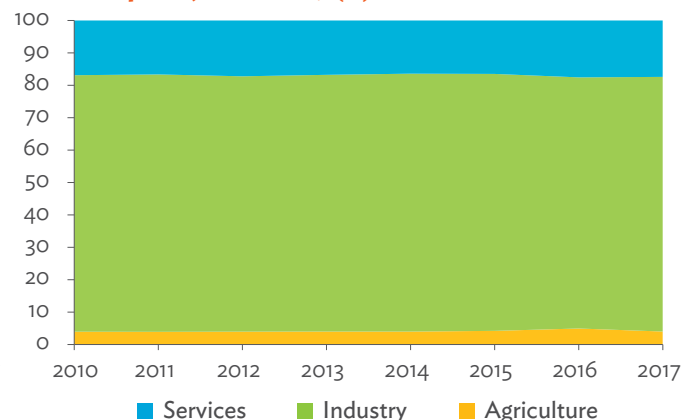
**Figure 3.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

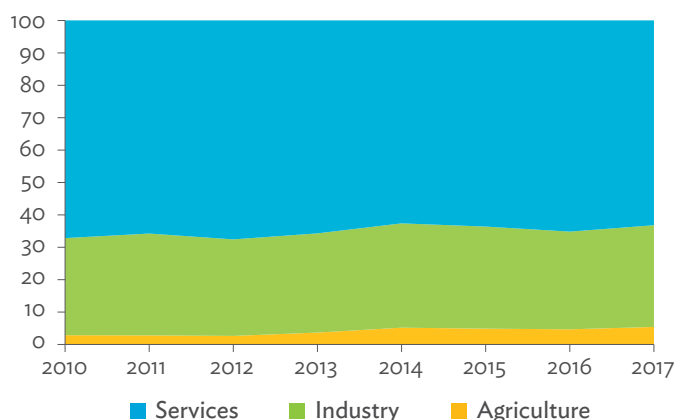
**Figure 3.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

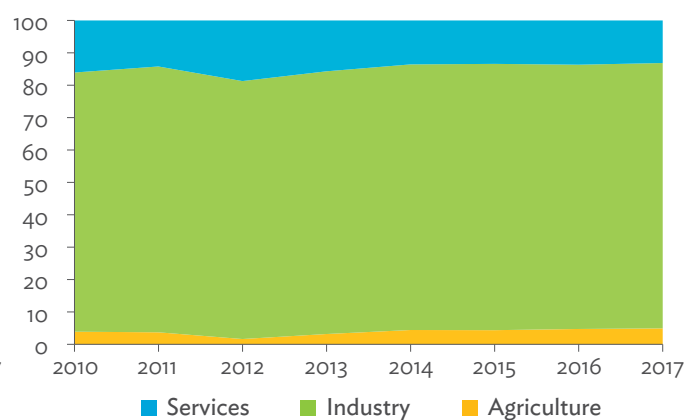
**Figure 3.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

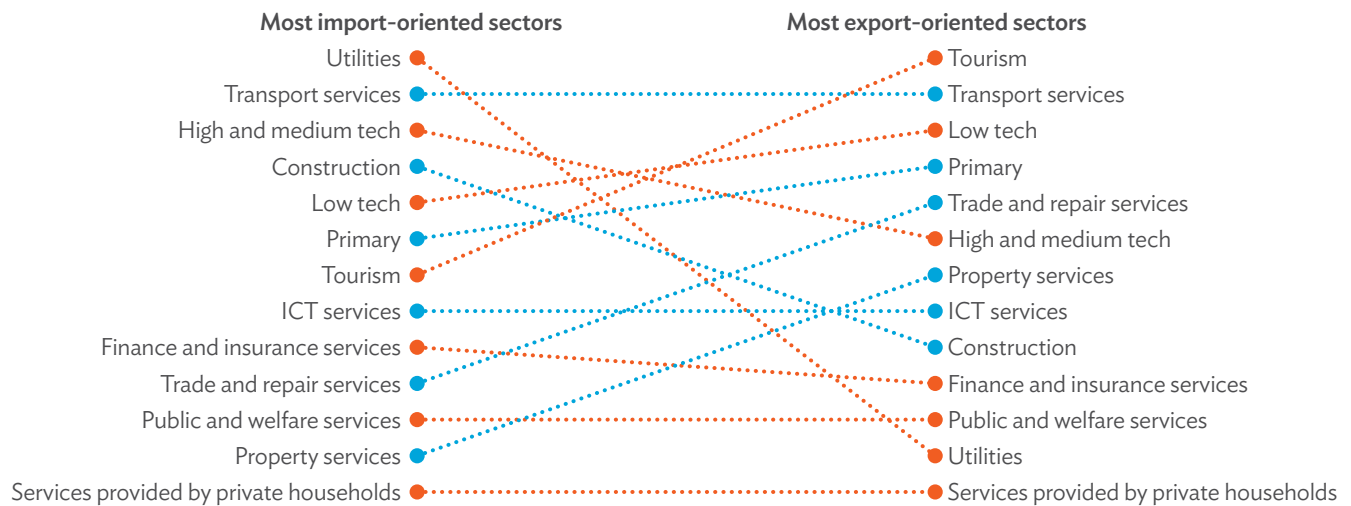
**Figure 3.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

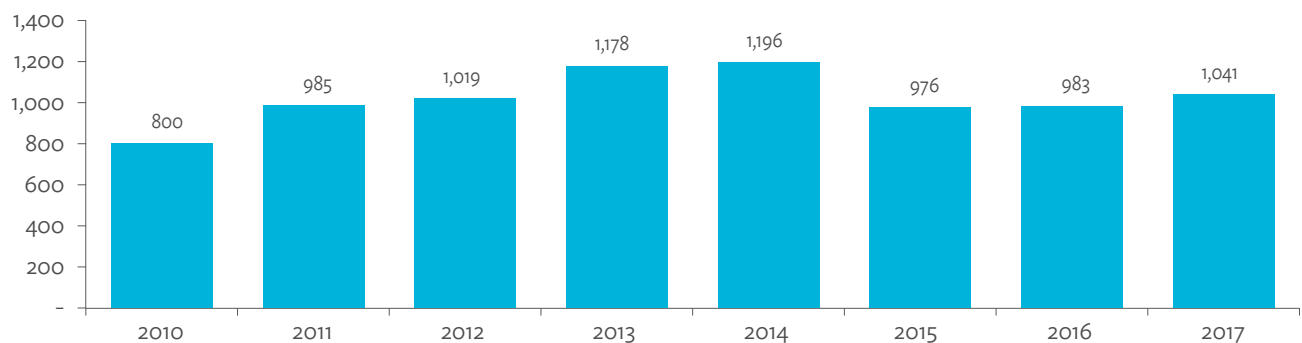


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

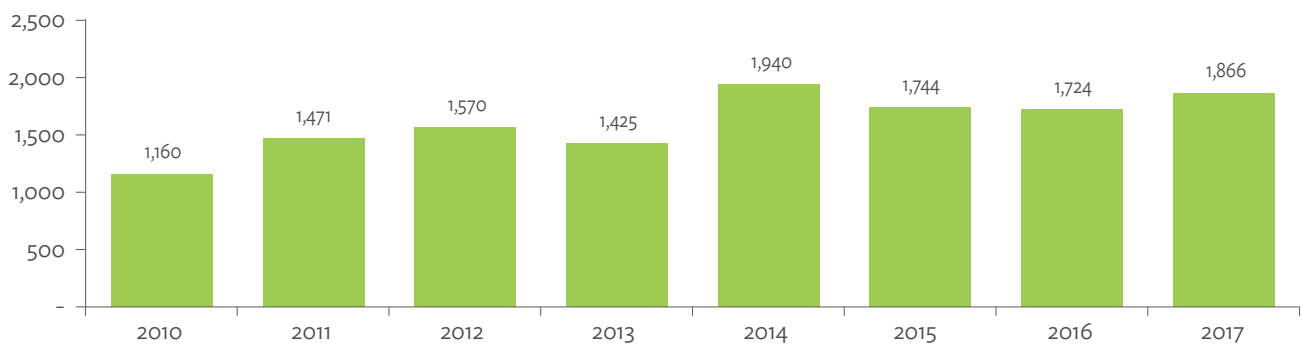


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**



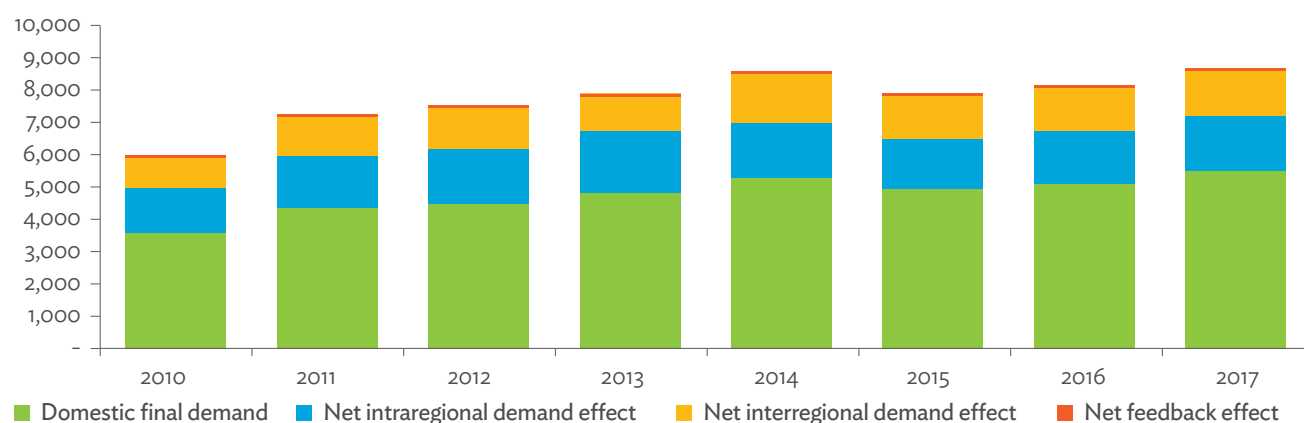
\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 3.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

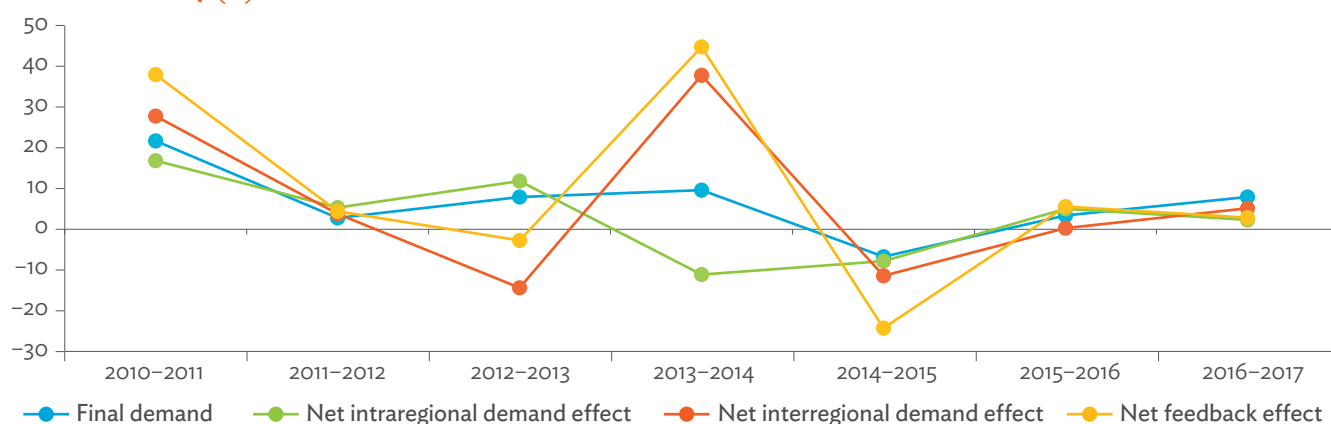


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

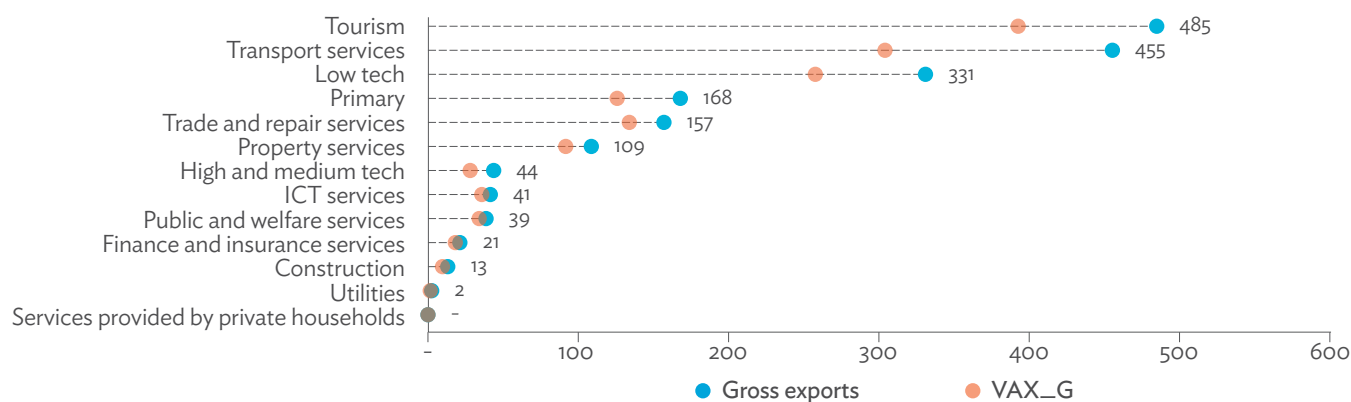
**Figure 3.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

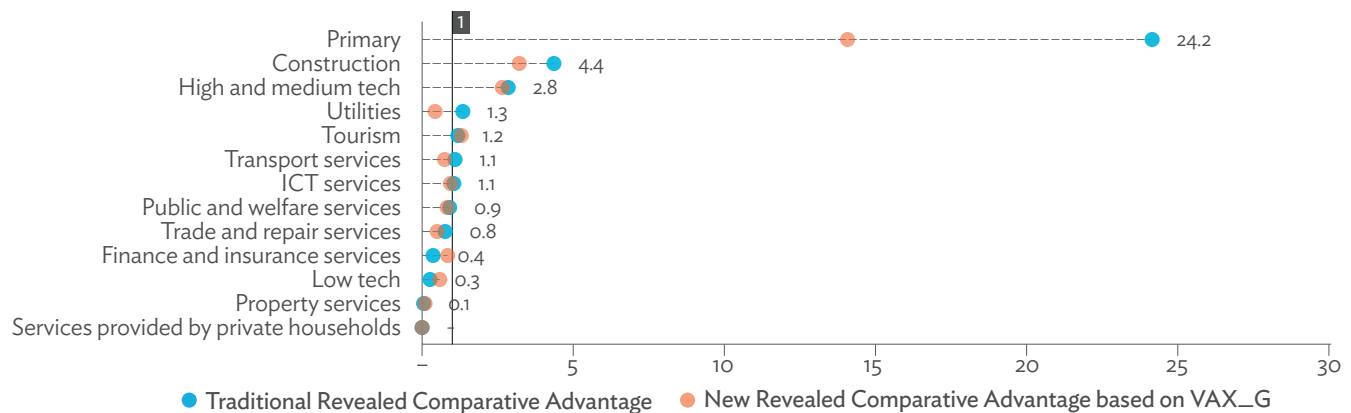


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 3.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	318	405	467	486	522	469	493	565
Low tech	901	1,049	1,121	1,225	1,200	1,125	1,164	1,215
High and medium tech	73	85	92	102	94	85	88	94
Business service	1,723	1,947	2,138	2,324	2,467	2,331	2,400	2,589
Personal service	563	866	657	691	1,011	927	960	1,045
Intraregional effects (M1)								
Primary	192	220	232	257	225	215	224	237
Low tech	294	352	367	409	378	330	346	345
High and medium tech	104	121	126	140	127	116	121	123
Business service	773	899	950	1,067	937	877	924	947
Personal service	21	25	28	32	25	23	25	26

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	85	114	114	109	152	137	149	148
Low tech	180	233	253	216	279	243	250	247
High and medium tech	27	32	39	30	45	38	38	40
Business service	706	896	915	777	1,097	974	958	1,033
Personal service	18	22	24	20	16	13	16	15
Feedback effects (M3)								
Primary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Low tech	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
High and medium tech	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Business service	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
Personal service	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.3571	0.3565	0.3603	0.3533	0.3351	0.3093	0.3205	0.3091
Mining and quarrying	0.4120	0.4368	0.4192	0.3719	0.5165	0.5222	0.5265	0.5378
Food, beverages, and tobacco	0.7905	0.7838	0.7847	0.7683	0.6874	0.6788	0.6789	0.6533
Textiles and textile products	0.4790	0.4793	0.4767	0.4692	0.3744	0.3333	0.3626	0.3344
Leather, leather products, and footwear	0.6590	0.6496	0.6421	0.6229	0.4920	0.4822	0.4752	0.4387
Wood and products of wood and cork	0.7836	0.7996	0.8007	0.7876	0.7185	0.7036	0.7068	0.6825
Pulp, paper, paper products, printing, and publishing	0.3860	0.3716	0.3717	0.3596	0.2582	0.2707	0.2663	0.2410
Coke, refined petroleum, and nuclear fuel	0.0000	0.2009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.7271	0.7248	0.7230	0.7039	0.6040	0.5883	0.5869	0.5569
Rubber and plastics	0.4468	0.4350	0.4355	0.4132	0.2769	0.3059	0.3138	0.2809
Other nonmetallic minerals	0.7683	0.7692	0.7643	0.7370	0.7142	0.7172	0.7202	0.7020
Basic metals and fabricated metal	0.6787	0.6629	0.6636	0.6361	0.5112	0.5287	0.5329	0.4975
Machinery, nec	0.2658	0.2592	0.2611	0.2520	0.1431	0.1508	0.1619	0.1408
Electrical and optical equipment	0.0000	1.0970	0.0000	0.0000	0.0152	0.0189	0.0098	0.2064
Transport equipment	0.3605	0.3520	0.3542	0.3435	0.2327	0.2129	0.2381	0.2152
Manufacturing, nec; recycling	0.7520	0.7505	0.7473	0.7343	0.6364	0.6116	0.6154	0.5829
Electricity, gas, and water supply	0.3018	0.3290	0.3263	0.3034	0.4371	0.4017	0.4047	0.3916
Construction	0.6114	0.5956	0.5969	0.5932	0.6489	0.6652	0.6675	0.6249
Sale, maintenance, and repair	0.4238	0.4209	0.4199	0.4131	0.3686	0.2848	0.3009	0.2993
Wholesale trade and commission trade	0.4376	0.4324	0.4335	0.4252	0.3593	0.3099	0.3106	0.3065
Retail trade	0.4200	0.4181	0.4171	0.4100	0.3779	0.2934	0.3028	0.3024
Hotels and restaurants	0.6263	0.6273	0.6288	0.6181	0.5418	0.5393	0.5381	0.5072
Inland transport	0.3641	0.3633	0.3717	0.3630	0.0187	0.0447	0.0568	0.0339
Water transport	0.4578	0.4570	0.4695	0.4570	0.1738	0.1826	0.1883	0.1514
Air transport	0.4466	0.4453	0.4614	0.4469	0.1997	0.2196	0.2196	0.1849
Other supporting and auxiliary transport activities	0.4866	0.4868	0.4931	0.4850	0.1586	0.1300	0.1323	0.0962
Post and telecommunications	0.3347	0.3359	0.3278	0.3215	0.2764	0.2646	0.2751	0.2618
Financial intermediation	0.2981	0.2914	0.2931	0.2896	0.2688	0.2842	0.2848	0.2744
Real estate activities	0.3815	0.3785	0.3787	0.3744	0.3738	0.3775	0.3794	0.3733
Renting of M&Eq and other business activities	0.3878	0.3803	0.3820	0.3703	0.5116	0.5019	0.5027	0.4873
Public administration and defense; compulsory social security	0.2741	0.2822	0.2702	0.2644	0.2563	0.2263	0.2272	0.2052
Education	0.2323	0.2409	0.2291	0.2249	0.3124	0.3547	0.3598	0.3570
Health and social work	0.2557	0.2642	0.2516	0.2454	0.2454	0.2437	0.2536	0.2360
Other community, social, and personal services	0.7047	0.6975	0.6880	0.6697	0.1751	0.1883	0.1957	0.1673
Private households with employed persons	0.4408	0.4382	0.4356	0.4280	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.4481	0.4667	0.4338	0.4757	0.4743	0.4056	0.4099	0.4178
Mining and quarrying	0.8744	0.8138	0.8660	1.0623	1.1287	1.0405	1.0169	1.1133
Food, beverages, and tobacco	0.6040	0.6358	0.6149	0.6687	0.6710	0.6071	0.5873	0.5946
Textiles and textile products	0.3787	0.3873	0.3750	0.4106	0.3992	0.3281	0.3472	0.3345
Leather, leather products, and footwear	0.7607	0.8234	0.8010	0.8755	0.8579	0.7764	0.7406	0.7311
Wood and products of wood and cork	0.5465	0.5222	0.5069	0.5512	0.5519	0.4938	0.4822	0.4894
Pulp, paper, paper products, printing, and publishing	0.7159	0.8066	0.7916	0.8563	0.8612	0.7977	0.7502	0.7457
Coke, refined petroleum, and nuclear fuel	2.3608	2.1385	2.3605	2.4227	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.7828	0.8124	0.7909	0.8583	0.8987	0.7996	0.7768	0.7729
Rubber and plastics	1.3082	1.3780	1.3538	1.4433	1.4724	1.3876	1.3518	1.3585
Other nonmetallic minerals	0.7296	0.7401	0.7471	0.8468	0.8638	0.8116	0.7953	0.8260
Basic metals and fabricated metal	1.1785	1.2371	1.2132	1.3002	1.3036	1.2269	1.1997	1.1971
Machinery, nec	0.7834	0.8310	0.8153	0.8809	0.8784	0.7950	0.8003	0.7802
Electrical and optical equipment	0.0000	0.3758	0.0000	0.0000	1.0391	1.6423	0.8772	0.6065
Transport equipment	0.7607	0.8096	0.7788	0.8438	0.8540	0.7256	0.7721	0.7480
Manufacturing, nec; recycling	0.4816	0.5021	0.4871	0.5306	0.5220	0.4630	0.4541	0.4496
Electricity, gas, and water supply	1.1776	1.1102	1.0903	1.2075	1.2515	1.0514	1.0264	1.0700
Construction	0.6723	0.7335	0.7130	0.7436	0.7729	0.7418	0.7281	0.7192
Sale, maintenance, and repair	0.3311	0.3543	0.3444	0.3833	0.3929	0.2754	0.2867	0.3004
Wholesale trade and commission trade	0.4554	0.4891	0.4700	0.5143	0.5021	0.3960	0.3847	0.3942
Retail trade	0.3530	0.3750	0.3631	0.3982	0.3894	0.2741	0.2750	0.2876
Hotels and restaurants	0.5191	0.5358	0.5101	0.5524	0.5565	0.5087	0.4927	0.4871
Inland transport	0.8974	0.9193	0.8591	0.9152	0.8956	0.8860	0.9357	0.8552
Water transport	1.1254	1.1622	1.0995	1.1585	1.2027	1.0460	1.0123	0.9366
Air transport	1.3100	1.3566	1.2888	1.3596	1.4490	1.3088	1.2224	1.1933
Other supporting and auxiliary transport activities	0.6444	0.6717	0.6316	0.6747	0.6157	0.4473	0.4353	0.3477
Post and telecommunications	0.3331	0.3418	0.3628	0.3995	0.3757	0.3293	0.3301	0.3311
Financial intermediation	0.3025	0.3509	0.3292	0.3546	0.3674	0.3591	0.3489	0.3527
Real estate activities	0.1838	0.2049	0.1958	0.2185	0.2415	0.2261	0.2208	0.2251
Renting of M&Eq and other business activities	0.4914	0.5408	0.5172	0.5791	0.4732	0.4318	0.4254	0.4239
Public administration and defense; compulsory social security	0.3920	0.3571	0.4196	0.4583	0.3380	0.2750	0.2670	0.2523
Education	0.3052	0.2531	0.3280	0.3580	0.2890	0.2997	0.2943	0.3030
Health and social work	0.4061	0.3607	0.4427	0.4714	0.3531	0.3199	0.3230	0.3177
Other community, social, and personal services	0.5315	0.5669	0.5575	0.6461	0.8838	0.8048	0.7865	0.7592
Private households with employed persons	0.3163	0.3375	0.3329	0.3667	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.3.5: Net Feedback Multipliers (M3), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Textiles and textile products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other nonmetallic minerals	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Basic metals and fabricated metal	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Machinery, nec	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Transport equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Manufacturing, nec; recycling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity, gas, and water supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Construction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	86	62	125	92	111	83	105	77	167	122	151	114	151	115	168	126
Low tech	207	158	262	197	295	227	291	217	356	266	315	244	312	243	331	258
High and medium tech	24	15	31	19	39	25	30	18	47	28	41	26	41	26	44	28
Utilities	0	0	0	0	1	0	0	0	3	2	2	2	2	1	2	2
Construction	1	0	1	1	1	1	1	0	13	9	13	9	13	9	13	10
Trade and repair services	76	62	97	79	110	90	72	58	148	120	139	118	138	118	157	134
Tourism	345	272	427	335	455	362	413	323	496	387	456	366	453	365	485	393
Transport services	347	198	435	246	457	269	422	241	494	278	434	272	423	274	455	304
ICT services	16	14	21	18	22	19	20	17	42	35	38	33	38	33	41	36
Finance and insurance services	9	8	12	10	13	11	12	10	22	19	20	17	20	17	21	18
Property services	30	25	39	31	41	33	37	29	113	93	100	84	99	83	109	92
Public and welfare services	13	11	16	14	17	14	16	13	39	34	35	31	35	30	39	34
Services provided by private households	5	5	7	6	8	7	7	6	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.682	0.777	0.697	0.739	0.583	0.688	0.638	0.773	0.792	0.770	0.894	0.826	0.926	0.843	0.912	0.828
Low tech	1.236	1.432	1.255	1.471	1.334	1.525	1.401	1.544	1.234	1.389	1.207	1.334	1.212	1.332	1.185	1.298
High and medium tech	0.045	0.090	0.045	0.094	0.054	0.102	0.046	0.091	0.053	0.100	0.051	0.098	0.052	0.099	0.051	0.098
Utilities	0.066	0.847	0.074	0.860	0.088	0.869	0.064	0.831	0.335	0.610	0.287	0.655	0.223	0.656	0.263	0.587
Construction	0.117	0.056	0.131	0.059	0.158	0.067	0.085	0.052	1.324	0.427	1.396	0.446	1.213	0.421	1.349	0.432
Trade and repair services	0.838	0.951	0.855	0.951	0.880	0.957	0.643	0.834	0.970	0.890	0.991	0.948	0.989	0.934	1.050	0.940
Tourism	28.179	16.298	27.446	16.090	27.972	15.864	27.346	16.006	23.563	14.564	24.240	14.056	21.344	13.217	24.152	14.076
Transport services	5.013	2.325	5.306	2.395	5.143	2.417	5.349	2.450	4.573	2.936	4.395	3.017	4.393	3.120	4.362	3.215
ICT services	2.110	3.714	2.245	3.925	2.046	3.834	2.065	3.820	3.096	3.597	3.113	3.446	3.019	3.186	2.850	2.656
Finance and insurance services	0.264	1.178	0.279	1.222	0.280	1.192	0.271	1.162	0.371	1.015	0.366	0.898	0.352	0.878	0.364	0.848
Property services	0.400	0.616	0.410	0.619	0.410	0.615	0.386	0.600	0.824	0.583	0.779	0.527	0.756	0.510	0.764	0.499
Public and welfare services	0.579	0.389	0.620	0.409	0.605	0.392	0.573	0.385	1.060	0.793	1.000	0.719	0.948	0.694	1.091	0.745
Services provided by private households	10.899	20.235	9.721	17.503	8.693	15.016	11.253	19.970	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

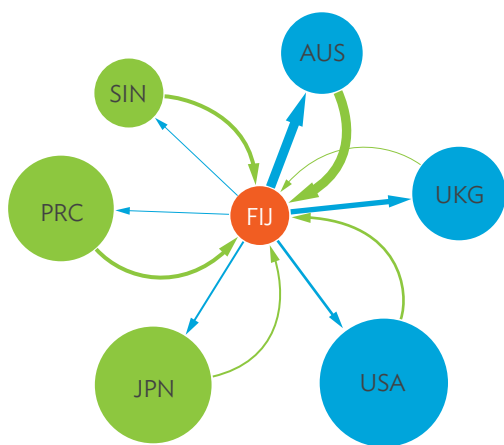
Source: Asian Development Bank Multi-Regional Input-Output Database.

# 3.4

## GLOBAL VALUE CHAIN INDICATORS

### Fiji

**Figure 3.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**

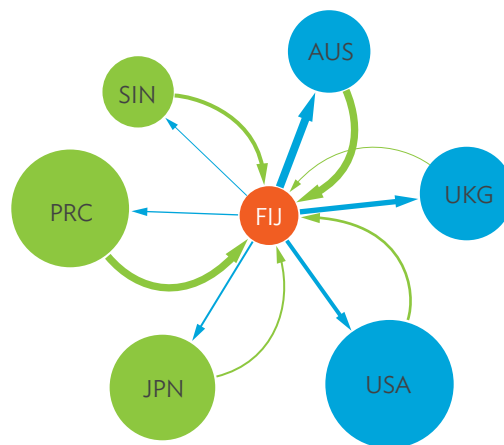


● Economy in focus ● Import partner ● Export partner

AUS = Australia, FJ = Fiji, JPN = Japan, PRC = People's Republic of China, SIN = Singapore, UKG = United Kingdom, USA = United States.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**

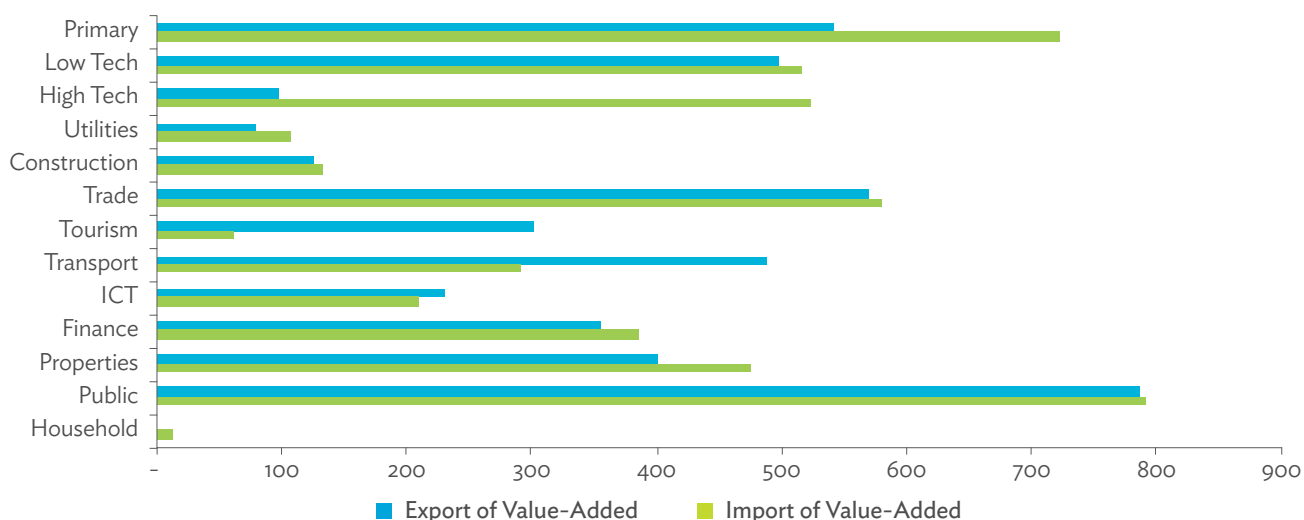


● Economy in focus ● Import partner ● Export partner

AUS = Australia, FJ = Fiji, JPN = Japan, PRC = People's Republic of China, SIN = Singapore, UKG = United Kingdom, USA = United States.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

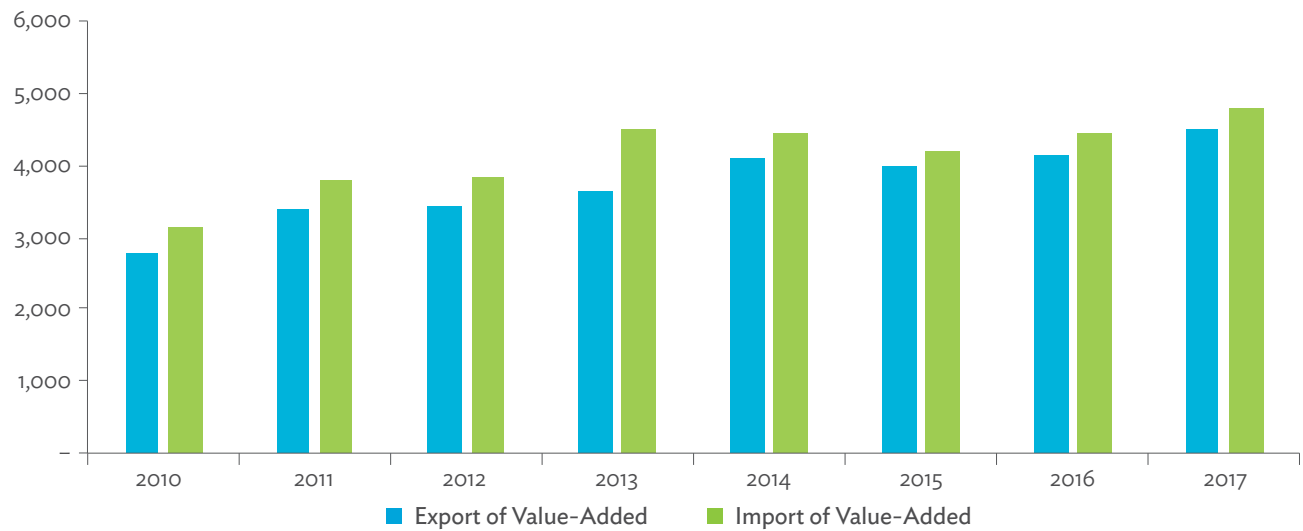
**Figure 3.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

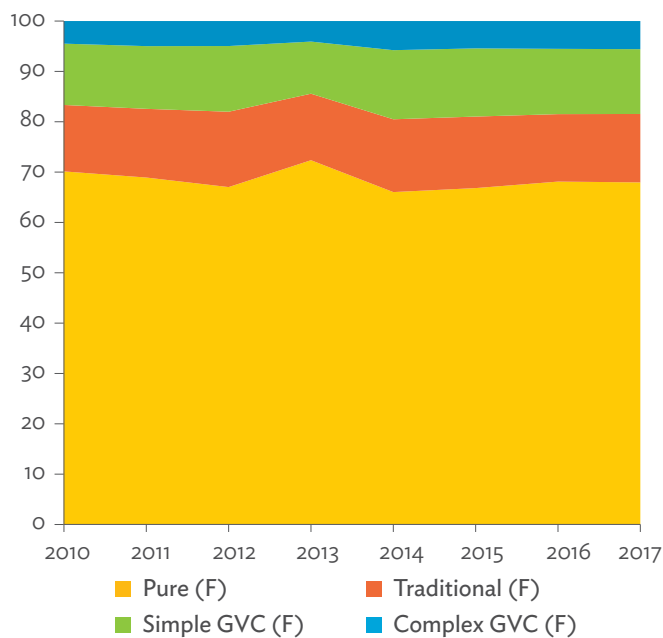


**Figure 3.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

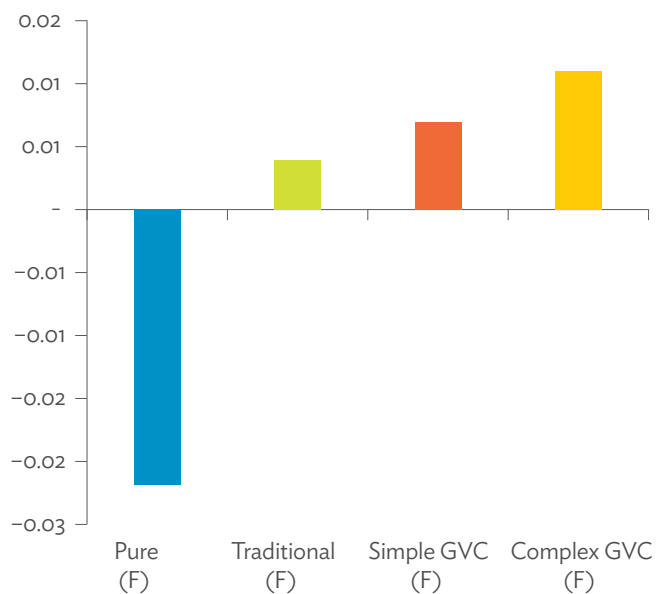
[Click here for figure data](#)

**Figure 3.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

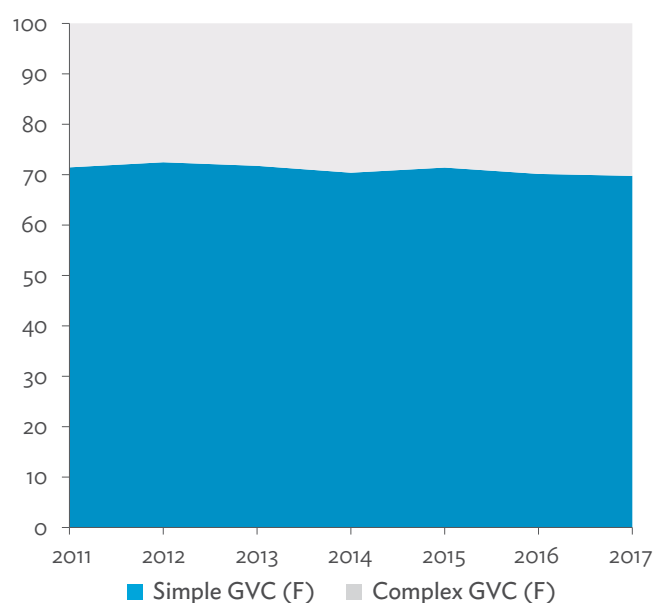
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

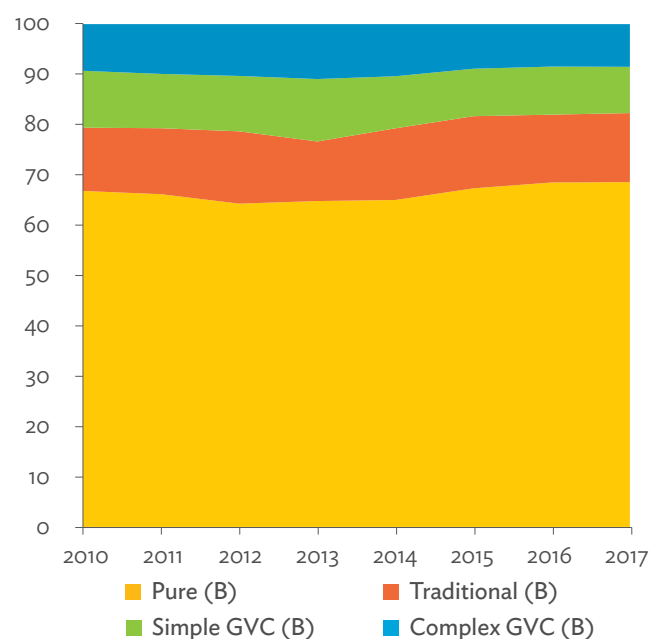


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

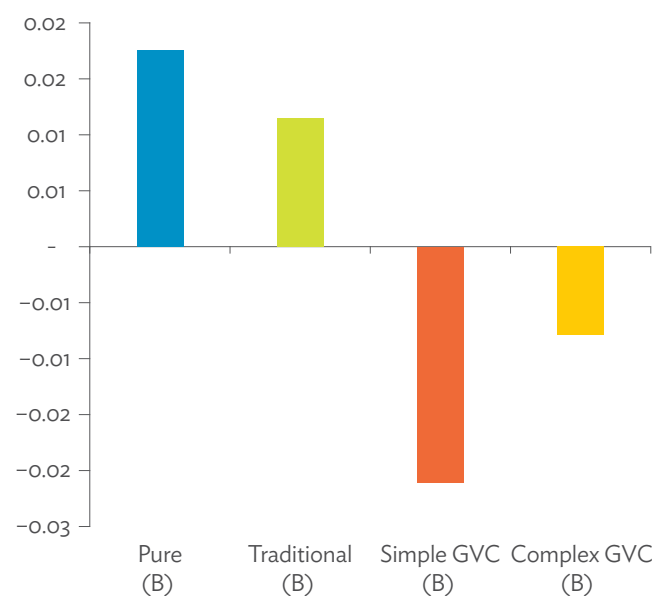


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



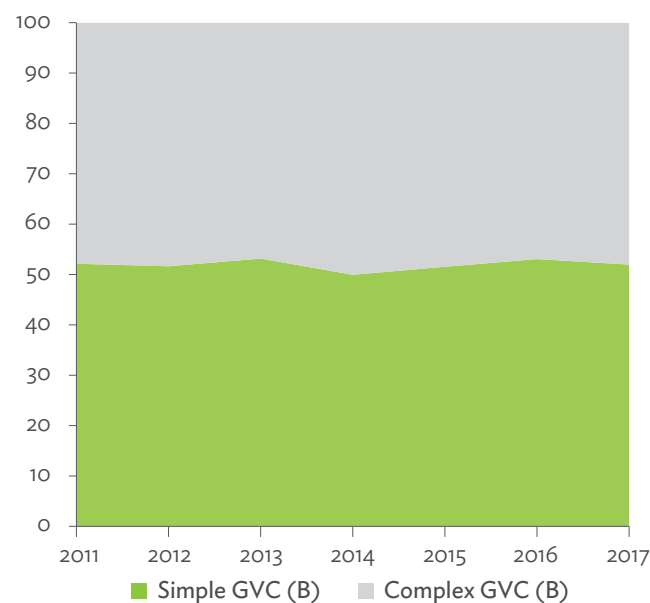
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

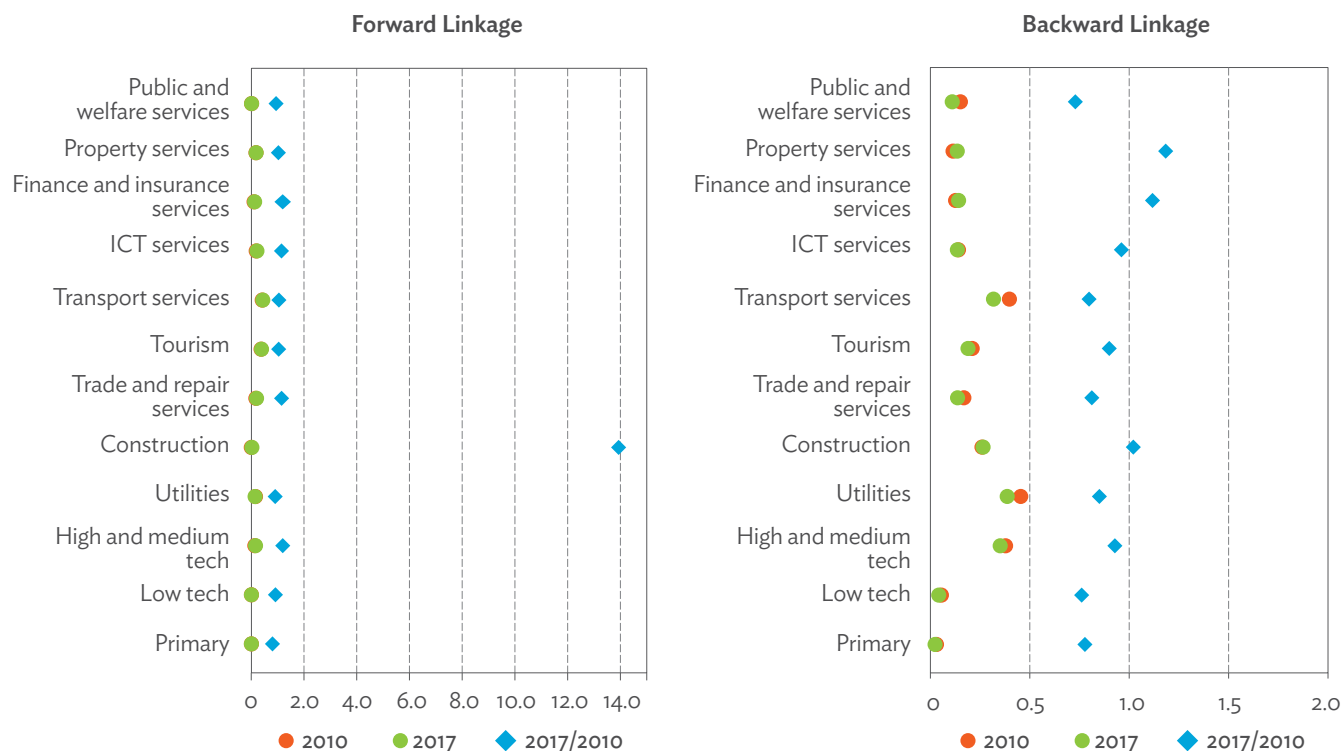


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

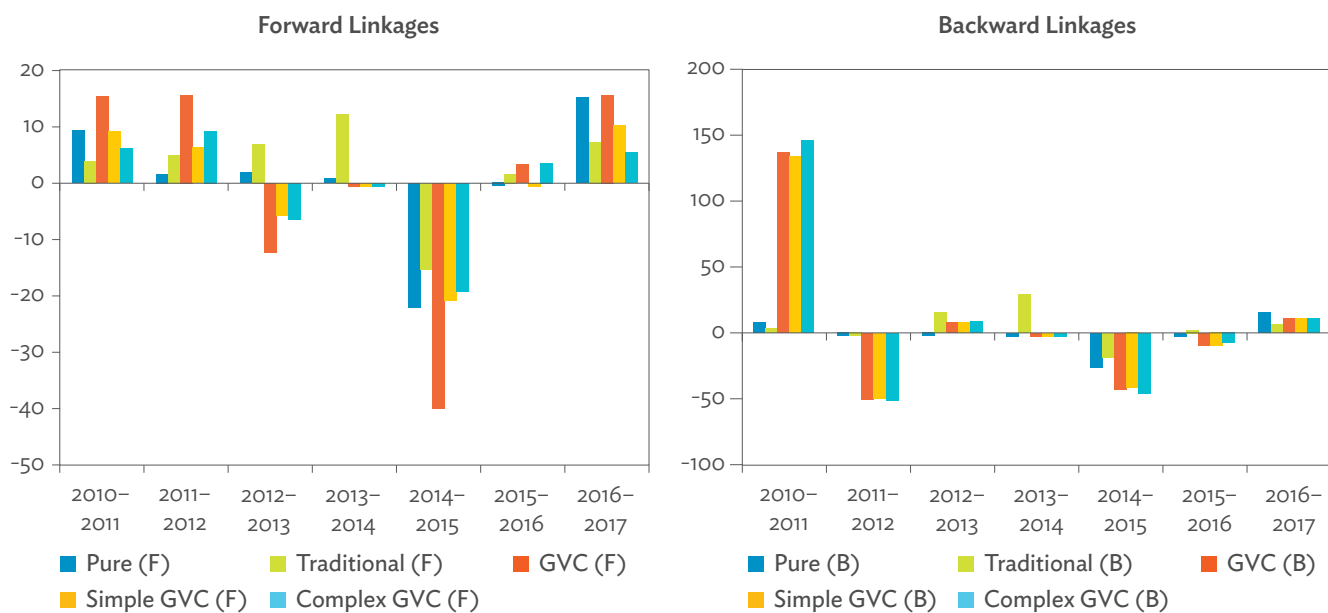


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

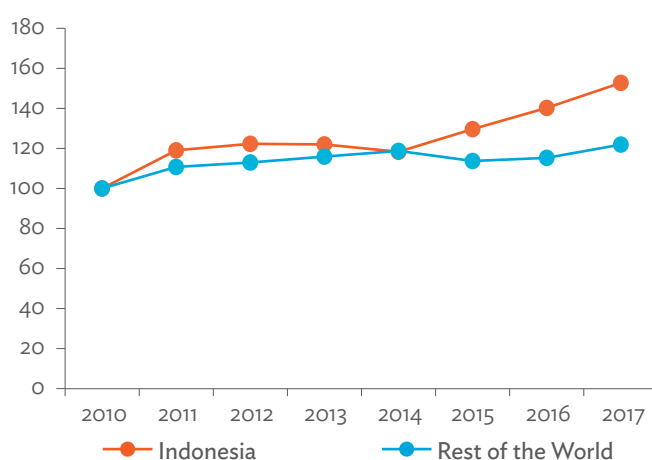
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# 4.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Indonesia

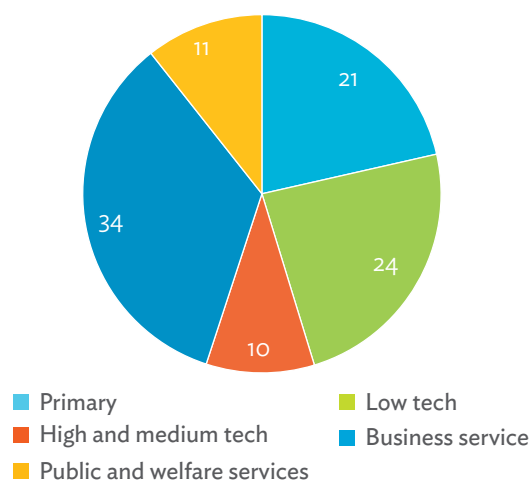
**Figure 4.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

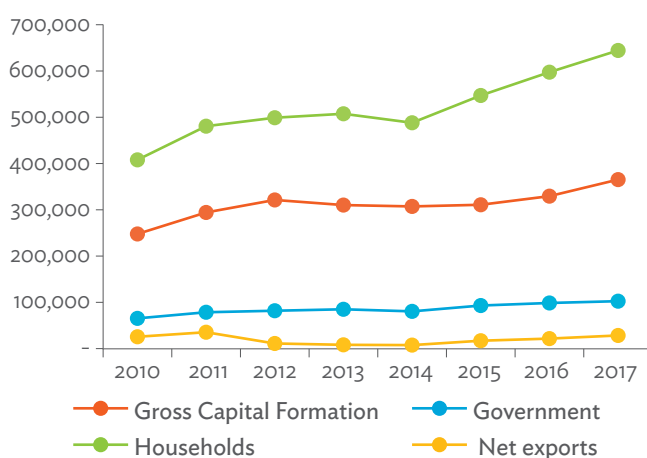
**Figure 4.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

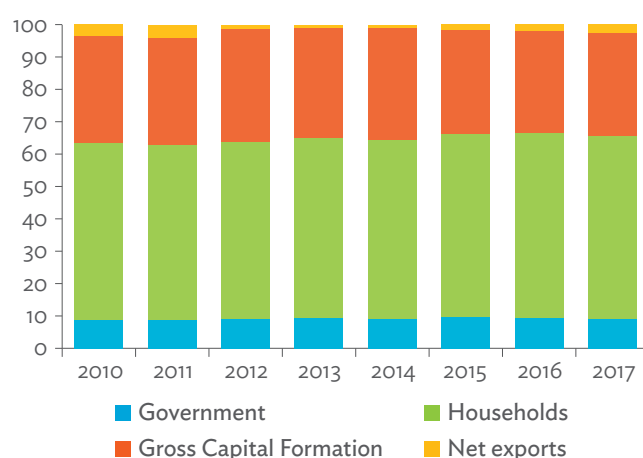


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

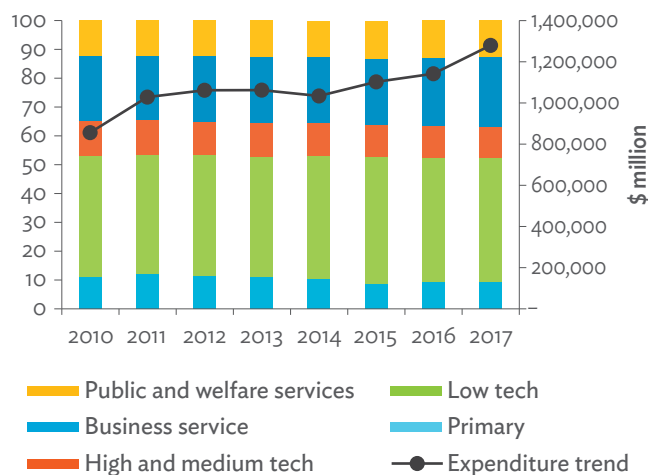
**Figure 4.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

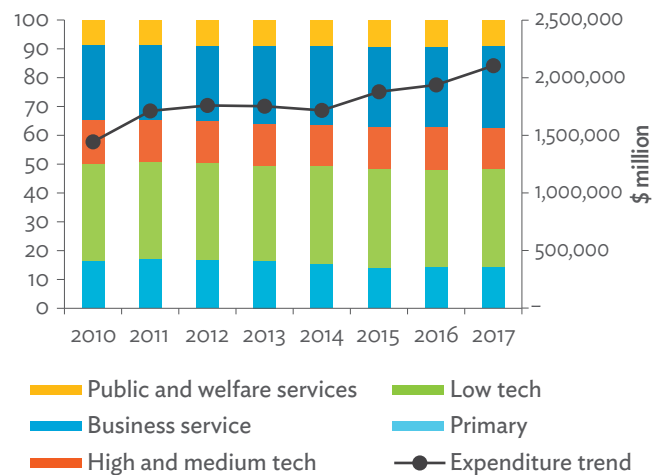


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

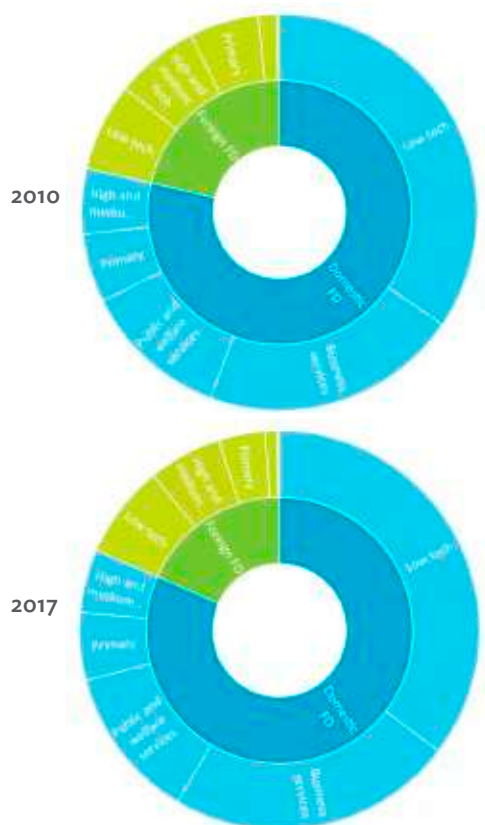


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

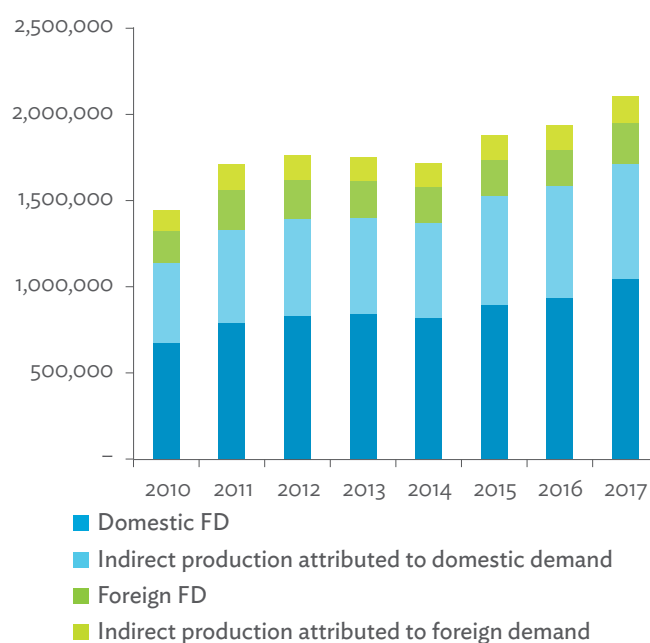


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

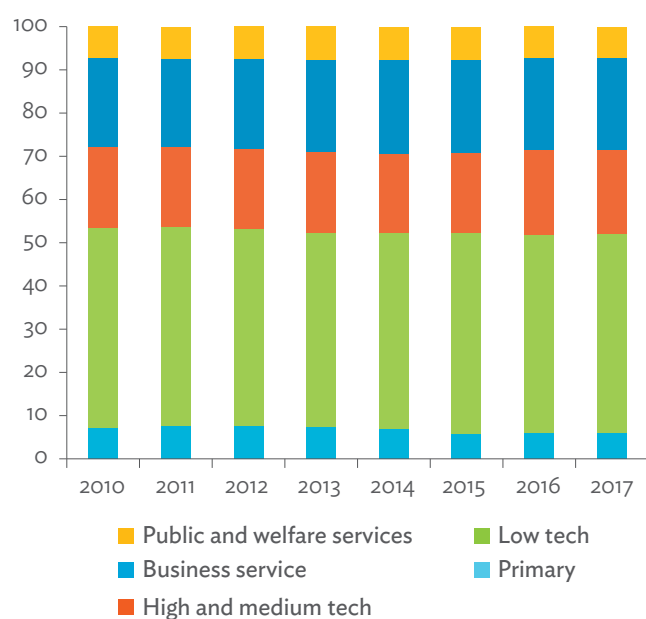


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

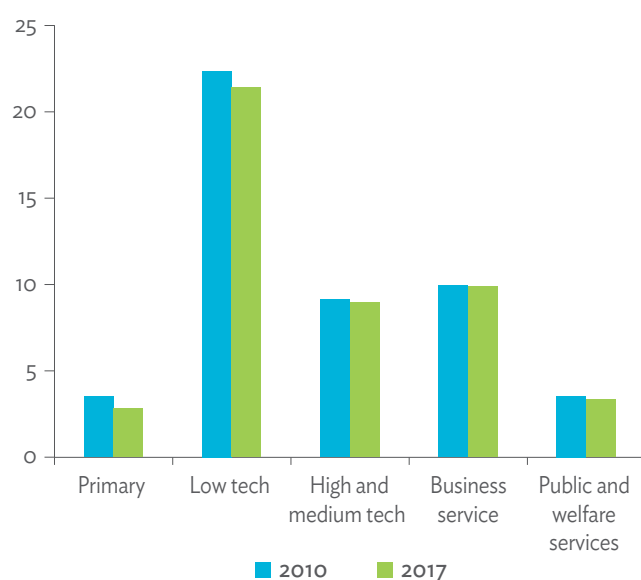
**Figure 4.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

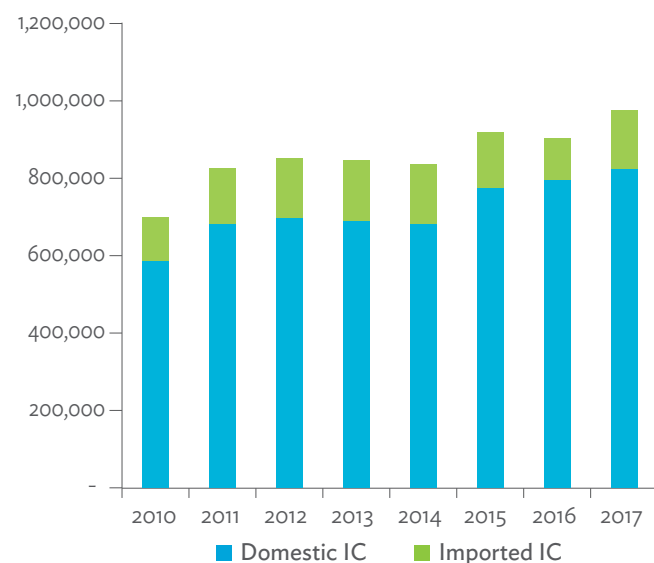
**Figure 4.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

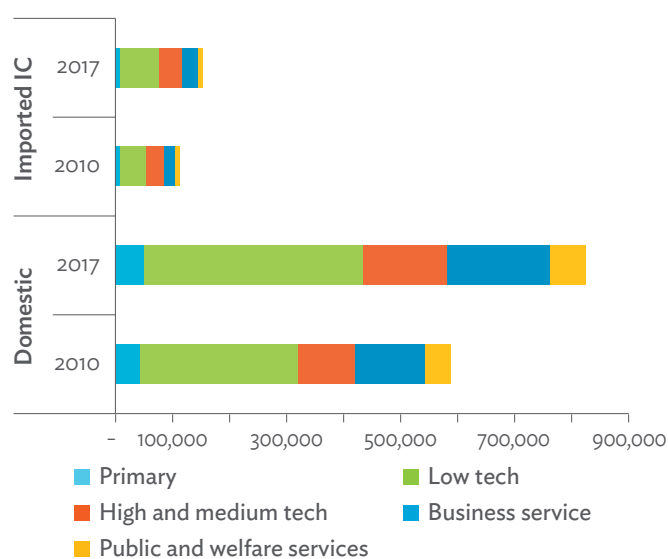


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

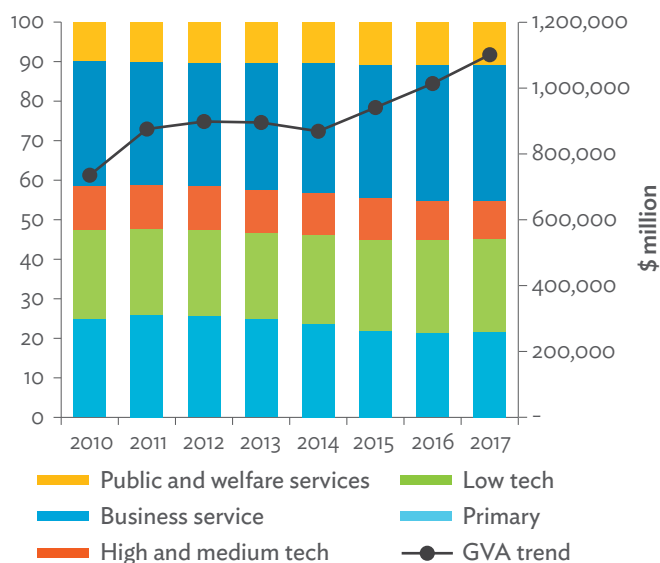


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

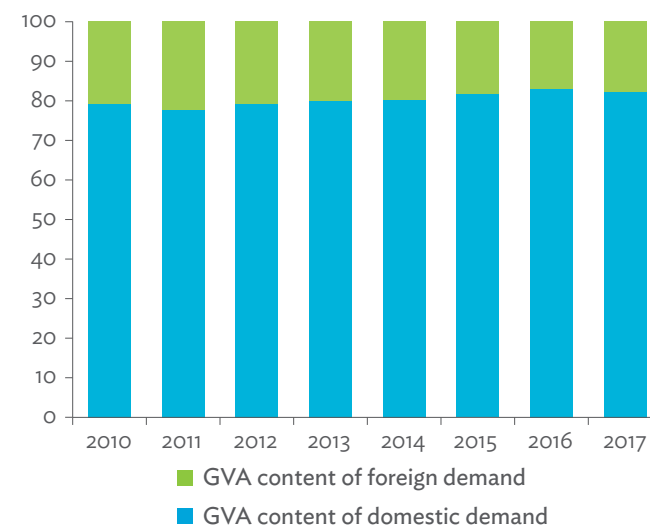


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

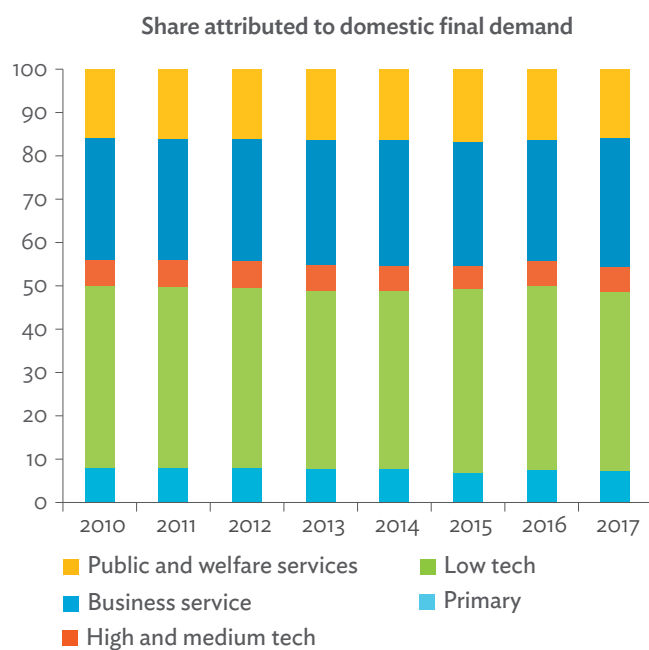


GVA = gross value added.

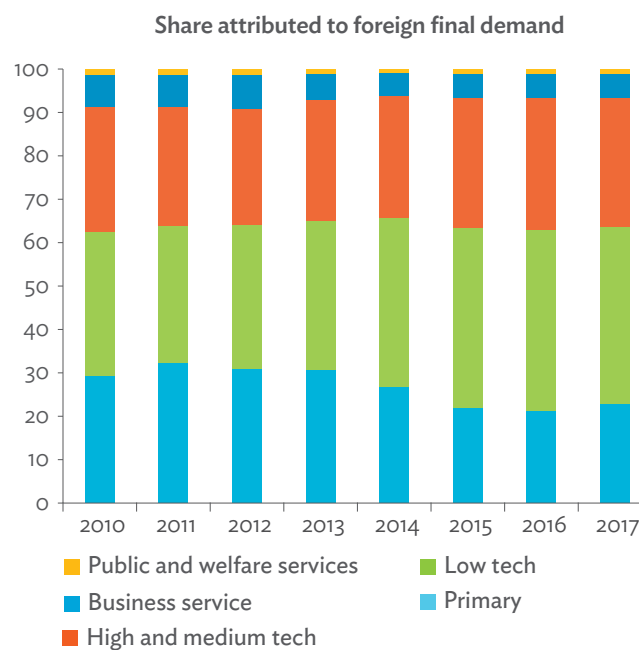
Source: Asian Development Bank Multi-Regional Input–Output Database.

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**Figure 4.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.



[Click here for figure data](#)



**Table 4.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.964	0.960	0.959	0.958	0.951	0.951	0.962	0.950
Mining and quarrying	0.926	0.923	0.925	0.921	0.921	0.921	0.916	0.921
Food, beverages, and tobacco	0.910	0.895	0.895	0.889	0.884	0.891	0.921	0.897
Textiles and textile products	0.757	0.721	0.717	0.708	0.691	0.722	0.796	0.721
Leather, leather products, and footwear	0.660	0.696	0.700	0.696	0.707	0.742	0.817	0.732
Wood and products of wood and cork	0.903	0.893	0.888	0.885	0.880	0.880	0.900	0.885
Pulp, paper, paper products, printing, and publishing	0.821	0.812	0.805	0.795	0.793	0.811	0.852	0.815
Coke, refined petroleum, and nuclear fuel	0.890	0.887	0.892	0.876	0.870	0.873	0.712	0.853
Chemicals and chemical products	0.785	0.768	0.768	0.757	0.744	0.772	0.824	0.780
Rubber and plastics	0.773	0.748	0.739	0.733	0.725	0.757	0.747	0.747
Other nonmetallic minerals	0.826	0.818	0.818	0.807	0.801	0.814	0.808	0.818
Basic metals and fabricated metal	0.775	0.769	0.763	0.756	0.749	0.776	0.787	0.776
Machinery, nec	0.514	0.500	0.482	0.484	0.489	0.544	0.734	0.566
Electrical and optical equipment	0.613	0.612	0.601	0.598	0.598	0.644	0.790	0.661
Transport equipment	0.824	0.824	0.805	0.804	0.812	0.825	0.879	0.831
Manufacturing, nec; recycling	0.813	0.801	0.791	0.788	0.783	0.805	0.843	0.805
Electricity, gas, and water supply	0.843	0.831	0.827	0.813	0.813	0.824	0.853	0.824
Construction	0.797	0.787	0.776	0.772	0.773	0.796	0.860	0.805
Sale, maintenance, and repair	0.902	0.898	0.895	0.894	0.898	0.896	0.925	0.904
Wholesale trade and commission trade	0.919	0.912	0.910	0.909	0.914	0.915	0.930	0.917
Retail trade	0.920	0.912	0.911	0.911	0.913	0.914	0.929	0.916
Hotels and restaurants	0.919	0.907	0.904	0.899	0.898	0.898	0.925	0.901
Inland transport	0.838	0.821	0.811	0.804	0.809	0.850	0.851	0.852
Water transport	0.812	0.792	0.786	0.785	0.793	0.812	0.834	0.812
Air transport	0.751	0.744	0.737	0.751	0.769	0.811	0.827	0.833
Other supporting and auxiliary transport activities	0.907	0.902	0.901	0.905	0.910	0.915	0.933	0.919
Post and telecommunications	0.931	0.928	0.930	0.933	0.937	0.933	0.954	0.942
Financial intermediation	0.949	0.947	0.948	0.950	0.949	0.946	0.964	0.960
Real estate activities	0.962	0.960	0.959	0.960	0.962	0.957	0.971	0.966
Renting of M&Eq and other business activities	0.884	0.878	0.878	0.881	0.885	0.892	0.923	0.904
Public administration and defense; compulsory social security	0.892	0.886	0.888	0.895	0.902	0.906	0.930	0.911
Education	0.900	0.894	0.892	0.890	0.890	0.897	0.927	0.910
Health and social work	0.871	0.862	0.860	0.855	0.856	0.866	0.904	0.876
Other community, social, and personal services	0.912	0.907	0.905	0.907	0.909	0.914	0.937	0.920
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 4.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.034	0.037	0.038	0.039	0.046	0.037	0.025	0.035
Mining and quarrying	0.069	0.072	0.071	0.073	0.073	0.064	0.065	0.060
Food, beverages, and tobacco	0.084	0.098	0.098	0.103	0.108	0.091	0.058	0.081
Textiles and textile products	0.222	0.259	0.262	0.271	0.287	0.261	0.183	0.258
Leather, leather products, and footwear	0.328	0.289	0.285	0.288	0.278	0.243	0.165	0.250
Wood and products of wood and cork	0.090	0.100	0.104	0.107	0.112	0.103	0.079	0.092
Pulp, paper, paper products, printing, and publishing	0.166	0.176	0.181	0.190	0.192	0.170	0.125	0.161
Coke, refined petroleum, and nuclear fuel	0.101	0.104	0.100	0.114	0.118	0.109	0.270	0.124
Chemicals and chemical products	0.198	0.215	0.215	0.224	0.237	0.211	0.155	0.198
Rubber and plastics	0.209	0.234	0.242	0.247	0.256	0.225	0.232	0.230
Other nonmetallic minerals	0.161	0.169	0.169	0.178	0.183	0.168	0.171	0.158
Basic metals and fabricated metal	0.207	0.214	0.219	0.225	0.232	0.206	0.192	0.201
Machinery, nec	0.450	0.467	0.483	0.478	0.475	0.440	0.243	0.412
Electrical and optical equipment	0.361	0.363	0.372	0.374	0.374	0.339	0.187	0.317
Transport equipment	0.164	0.166	0.182	0.181	0.176	0.159	0.102	0.148
Manufacturing, nec; recycling	0.174	0.186	0.194	0.196	0.202	0.178	0.136	0.172
Electricity, gas, and water supply	0.146	0.158	0.161	0.173	0.172	0.152	0.119	0.147
Construction	0.188	0.198	0.209	0.211	0.211	0.186	0.118	0.172
Sale, maintenance, and repair	0.092	0.096	0.099	0.099	0.096	0.090	0.058	0.079
Wholesale trade and commission trade	0.077	0.083	0.085	0.085	0.081	0.071	0.054	0.066
Retail trade	0.076	0.083	0.084	0.084	0.082	0.072	0.054	0.067
Hotels and restaurants	0.076	0.088	0.090	0.094	0.096	0.085	0.055	0.077
Inland transport	0.152	0.168	0.177	0.182	0.179	0.135	0.132	0.130
Water transport	0.176	0.196	0.202	0.201	0.194	0.170	0.144	0.164
Air transport	0.233	0.242	0.247	0.233	0.217	0.172	0.154	0.148
Other supporting and auxiliary transport activities	0.089	0.094	0.094	0.090	0.085	0.070	0.050	0.063
Post and telecommunications	0.066	0.069	0.067	0.064	0.060	0.052	0.030	0.042
Financial intermediation	0.049	0.051	0.050	0.048	0.049	0.041	0.022	0.025
Real estate activities	0.036	0.038	0.038	0.037	0.036	0.031	0.016	0.019
Renting of M&Eq and other business activities	0.110	0.116	0.116	0.112	0.108	0.094	0.061	0.079
Public administration and defense; compulsory social security	0.103	0.109	0.107	0.100	0.093	0.079	0.053	0.070
Education	0.094	0.100	0.101	0.103	0.103	0.089	0.057	0.073
Health and social work	0.121	0.130	0.132	0.136	0.135	0.117	0.076	0.103
Other community, social, and personal services	0.083	0.088	0.090	0.087	0.086	0.071	0.045	0.061
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 4.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.249	1.241	1.238	1.236	1.235	1.228	1.234	1.215
Mining and quarrying	1.331	1.322	1.320	1.317	1.323	1.337	1.313	1.321
Food, beverages, and tobacco	1.924	1.901	1.902	1.884	1.884	1.896	1.840	1.803
Textiles and textile products	1.645	1.598	1.591	1.568	1.539	1.615	1.756	1.598
Leather, leather products, and footwear	1.603	1.531	1.528	1.509	1.515	1.587	1.714	1.563
Wood and products of wood and cork	1.800	1.779	1.769	1.764	1.764	1.829	1.777	1.754
Pulp, paper, paper products, printing, and publishing	1.979	1.962	1.929	1.893	1.900	1.961	1.989	1.916
Coke, refined petroleum, and nuclear fuel	1.642	1.634	1.636	1.613	1.610	1.674	1.558	1.773
Chemicals and chemical products	1.801	1.760	1.758	1.737	1.726	1.800	1.838	1.754
Rubber and plastics	1.898	1.845	1.833	1.811	1.798	1.863	1.889	1.887
Other nonmetallic minerals	1.838	1.817	1.805	1.787	1.790	1.876	1.814	1.834
Basic metals and fabricated metal	1.781	1.762	1.745	1.733	1.735	1.808	1.805	1.789
Machinery, nec	1.610	1.559	1.526	1.523	1.551	1.690	1.997	1.652
Electrical and optical equipment	1.724	1.718	1.697	1.695	1.695	1.807	2.029	1.760
Transport equipment	1.645	1.642	1.606	1.604	1.616	1.681	1.729	1.638
Manufacturing, nec; recycling	1.834	1.805	1.785	1.775	1.770	1.820	1.867	1.794
Electricity, gas, and water supply	2.462	2.457	2.412	2.368	2.407	2.475	2.519	2.448
Construction	1.866	1.839	1.816	1.812	1.814	1.876	1.916	1.814
Sale, maintenance, and repair	1.424	1.415	1.407	1.404	1.411	1.465	1.451	1.410
Wholesale trade and commission trade	1.455	1.441	1.434	1.431	1.442	1.463	1.459	1.434
Retail trade	1.456	1.442	1.435	1.433	1.441	1.465	1.457	1.432
Hotels and restaurants	1.827	1.805	1.802	1.784	1.787	1.830	1.802	1.762
Inland transport	1.642	1.610	1.589	1.576	1.586	1.548	1.540	1.533
Water transport	1.893	1.855	1.840	1.839	1.859	1.913	1.940	1.891
Air transport	1.768	1.754	1.740	1.766	1.806	1.786	1.680	1.681
Other supporting and auxiliary transport activities	1.654	1.641	1.639	1.650	1.669	1.644	1.642	1.614
Post and telecommunications	1.475	1.469	1.471	1.477	1.488	1.501	1.440	1.419
Financial intermediation	1.399	1.394	1.393	1.394	1.399	1.393	1.259	1.252
Real estate activities	1.274	1.269	1.265	1.269	1.274	1.274	1.185	1.177
Renting of M&Eq and other business activities	1.570	1.556	1.551	1.556	1.568	1.585	1.534	1.500
Public administration and defense; compulsory social security	1.536	1.524	1.524	1.535	1.556	1.567	1.539	1.504
Education	1.518	1.505	1.495	1.487	1.489	1.507	1.451	1.419
Health and social work	1.821	1.803	1.800	1.785	1.793	1.819	1.785	1.733
Other community, social, and personal services	1.731	1.722	1.716	1.722	1.734	1.712	1.663	1.632
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

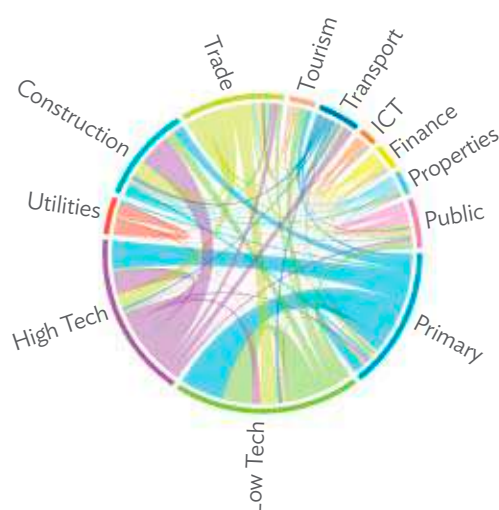
Source: Asian Development Bank Multi-Regional Input-Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 4.2

### Indonesia

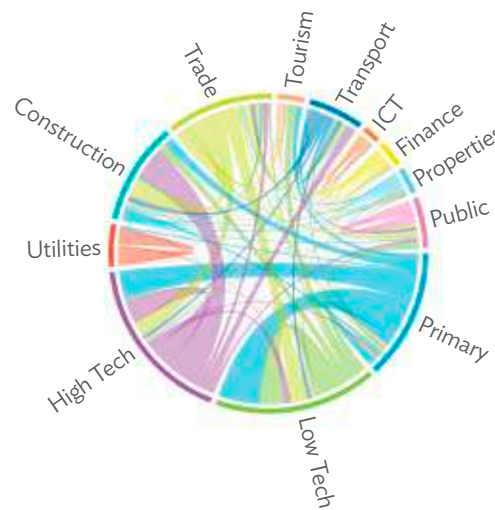
**Figure 4.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

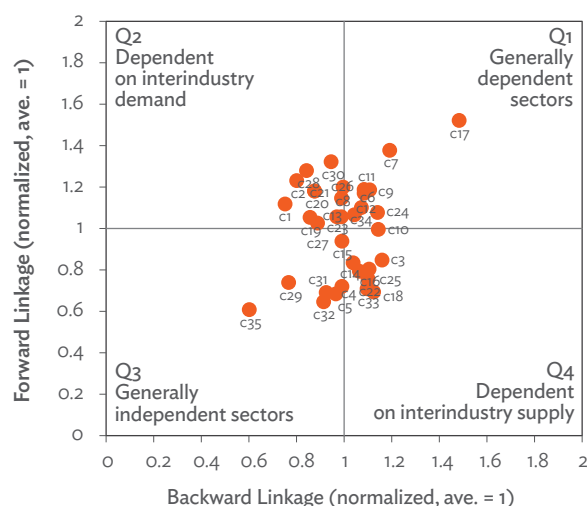
**Figure 4.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

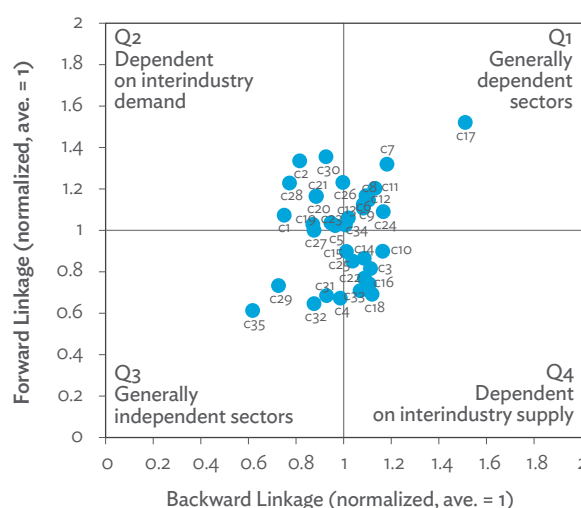
**Figure 4.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

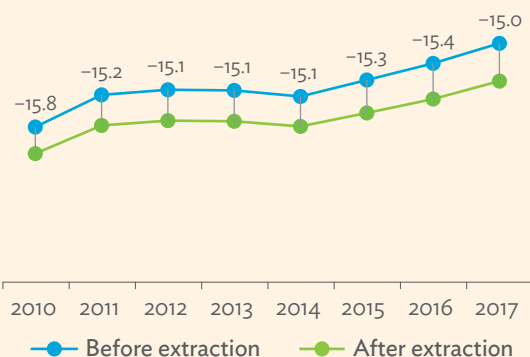
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**Figure 4.2.2b: Backward and Forward Linkages by Industry, 2017**

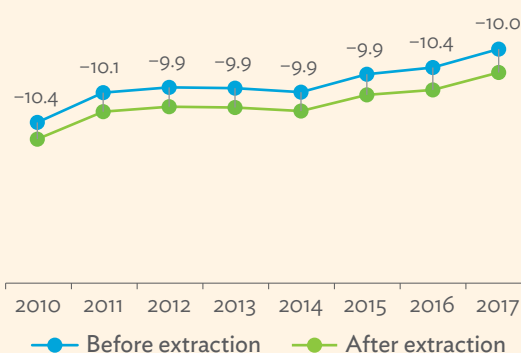


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

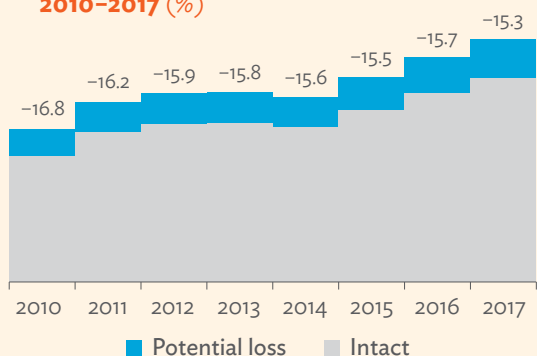
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**Box 4: Hypothetical Extraction of Agriculture, Hunting, Forestry, and Fishing Industry in Indonesia****Figure 4.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**

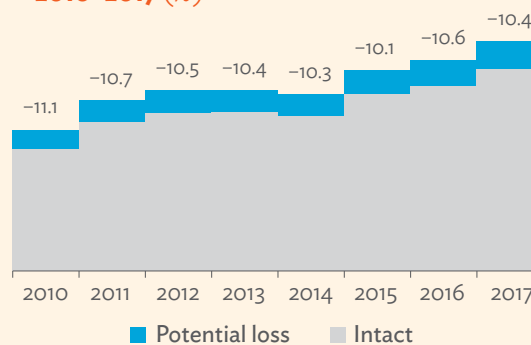
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 4.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**

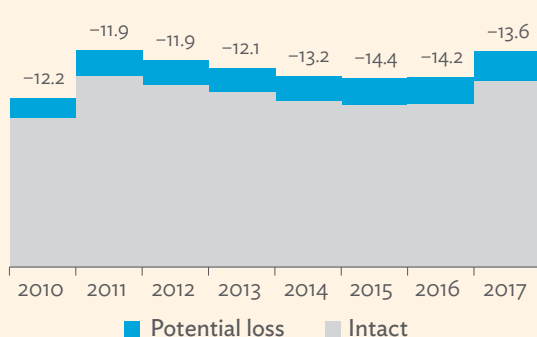
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 4.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**

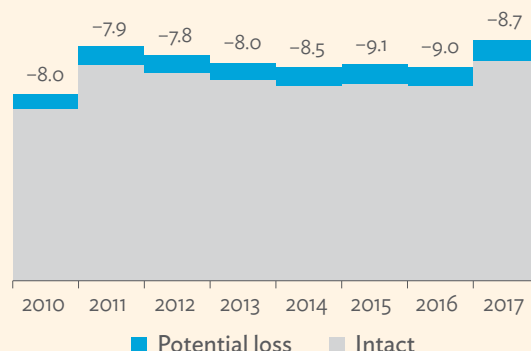
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 4.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 4.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 4.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 4.2.1: Input-Output Backward Linkage**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.753	0.757	0.760	0.762	0.759	0.737	0.740	0.750
Mining and quarrying	0.802	0.806	0.811	0.812	0.812	0.803	0.787	0.815
Food, beverages, and tobacco	1.160	1.160	1.168	1.162	1.158	1.138	1.102	1.113
Textiles and textile products	0.992	0.975	0.977	0.967	0.945	0.969	1.052	0.986
Leather, leather products, and footwear	0.966	0.934	0.939	0.931	0.931	0.953	1.027	0.965
Wood and products of wood and cork	1.085	1.085	1.086	1.088	1.084	1.098	1.065	1.083
Pulp, paper, paper products, printing, and publishing	1.193	1.197	1.185	1.168	1.167	1.177	1.192	1.183
Coke, refined petroleum, and nuclear fuel	0.990	0.997	1.005	0.995	0.989	1.005	0.934	1.094
Chemicals and chemical products	1.085	1.073	1.079	1.071	1.060	1.081	1.101	1.083
Rubber and plastics	1.144	1.125	1.126	1.117	1.104	1.118	1.132	1.165
Other nonmetallic minerals	1.108	1.108	1.109	1.103	1.100	1.126	1.087	1.132
Basic metals and fabricated metal	1.073	1.075	1.072	1.069	1.066	1.085	1.081	1.104
Machinery, nec	0.970	0.951	0.937	0.940	0.953	1.015	1.197	1.019
Electrical and optical equipment	1.039	1.048	1.042	1.046	1.041	1.085	1.216	1.086
Transport equipment	0.992	1.002	0.986	0.989	0.993	1.010	1.036	1.011
Manufacturing, nec; recycling	1.105	1.101	1.096	1.095	1.087	1.093	1.119	1.108
Electricity, gas, and water supply	1.484	1.499	1.481	1.461	1.479	1.486	1.509	1.511
Construction	1.125	1.122	1.115	1.118	1.114	1.126	1.148	1.120
Sale, maintenance, and repair	0.858	0.863	0.864	0.866	0.867	0.880	0.869	0.870
Wholesale trade and commission trade	0.877	0.879	0.881	0.883	0.886	0.879	0.874	0.885
Retail trade	0.877	0.879	0.881	0.884	0.885	0.879	0.873	0.884
Hotels and restaurants	1.101	1.101	1.107	1.100	1.098	1.099	1.080	1.088
Inland transport	0.990	0.982	0.976	0.973	0.974	0.929	0.923	0.946
Water transport	1.141	1.132	1.130	1.134	1.142	1.149	1.163	1.167
Air transport	1.065	1.070	1.068	1.090	1.110	1.072	1.007	1.038
Other supporting and auxiliary transport activities	0.997	1.001	1.006	1.018	1.025	0.987	0.984	0.996
Post and telecommunications	0.889	0.896	0.903	0.911	0.914	0.901	0.863	0.876
Financial intermediation	0.843	0.850	0.855	0.860	0.859	0.836	0.755	0.773
Real estate activities	0.768	0.774	0.777	0.783	0.782	0.765	0.710	0.726
Renting of M&Eq and other business activities	0.946	0.949	0.953	0.960	0.964	0.952	0.919	0.926
Public administration and defense; compulsory social security	0.926	0.930	0.936	0.947	0.956	0.941	0.922	0.928
Education	0.915	0.918	0.918	0.917	0.915	0.905	0.870	0.876
Health and social work	1.098	1.100	1.105	1.101	1.102	1.092	1.070	1.069
Other community, social, and personal services	1.043	1.050	1.054	1.062	1.065	1.028	0.997	1.007
Private households with employed persons	0.603	0.610	0.614	0.617	0.614	0.600	0.599	0.617
	lowest linkage	<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div> highest linkage		



M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 4.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.121	1.117	1.117	1.110	1.105	1.107	1.081	1.076
Mining and quarrying	1.237	1.214	1.265	1.259	1.276	1.298	1.308	1.345
Food, beverages, and tobacco	0.843	0.842	0.847	0.837	0.834	0.818	0.814	0.810
Textiles and textile products	0.713	0.685	0.675	0.671	0.648	0.690	0.753	0.663
Leather, leather products, and footwear	0.675	0.738	0.752	0.720	0.686	0.669	0.801	1.024
Wood and products of wood and cork	1.193	1.188	1.163	1.155	1.121	1.123	1.111	1.129
Pulp, paper, paper products, printing, and publishing	1.388	1.419	1.386	1.339	1.340	1.335	1.347	1.329
Coke, refined petroleum, and nuclear fuel	1.150	1.159	1.171	1.153	1.190	1.189	1.192	1.172
Chemicals and chemical products	1.175	1.116	1.145	1.132	1.102	1.138	1.156	1.110
Rubber and plastics	0.995	0.970	0.950	0.922	0.899	0.921	0.932	0.896
Other nonmetallic minerals	1.192	1.203	1.201	1.210	1.208	1.203	1.182	1.209
Basic metals and fabricated metal	1.104	1.086	1.135	1.167	1.135	1.137	1.125	1.150
Machinery, nec	1.058	1.010	1.015	1.011	1.042	1.117	1.088	1.062
Electrical and optical equipment	0.830	0.845	0.837	0.862	0.852	0.877	0.892	0.861
Transport equipment	0.937	0.948	0.921	0.921	0.910	0.916	0.906	0.895
Manufacturing, nec; recycling	0.798	0.813	0.799	0.801	0.729	0.740	0.734	0.733
Electricity, gas, and water supply	1.535	1.553	1.516	1.481	1.517	1.540	1.552	1.537
Construction	0.686	0.689	0.683	0.694	0.692	0.692	0.664	0.683
Sale, maintenance, and repair	1.055	1.056	1.048	1.051	1.059	1.050	1.044	1.030
Wholesale trade and commission trade	1.185	1.186	1.176	1.178	1.183	1.190	1.176	1.170
Retail trade	1.186	1.186	1.176	1.180	1.182	1.189	1.175	1.169
Hotels and restaurants	0.750	0.755	0.760	0.770	0.782	0.766	0.767	0.762
Inland transport	1.058	1.061	1.052	1.053	1.059	1.055	1.051	1.038
Water transport	1.080	1.076	1.076	1.087	1.102	1.096	1.094	1.093
Air transport	0.788	0.796	0.823	0.847	0.873	0.853	0.852	0.847
Other supporting and auxiliary transport activities	1.205	1.198	1.210	1.237	1.270	1.253	1.248	1.239
Post and telecommunications	1.027	1.027	1.031	1.035	1.046	1.028	1.017	1.000
Financial intermediation	1.287	1.293	1.288	1.283	1.288	1.265	1.252	1.236
Real estate activities	0.732	0.738	0.737	0.739	0.742	0.726	0.729	0.726
Renting of M&Eq and other business activities	1.331	1.318	1.313	1.360	1.383	1.384	1.347	1.366
Public administration and defense; compulsory social security	0.683	0.692	0.696	0.688	0.690	0.665	0.665	0.676
Education	0.636	0.645	0.650	0.650	0.648	0.627	0.625	0.636
Health and social work	0.701	0.711	0.715	0.714	0.717	0.696	0.694	0.700
Other community, social, and personal services	1.067	1.064	1.060	1.077	1.084	1.059	1.038	1.027
Private households with employed persons	0.597	0.605	0.608	0.609	0.604	0.585	0.586	0.601
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.

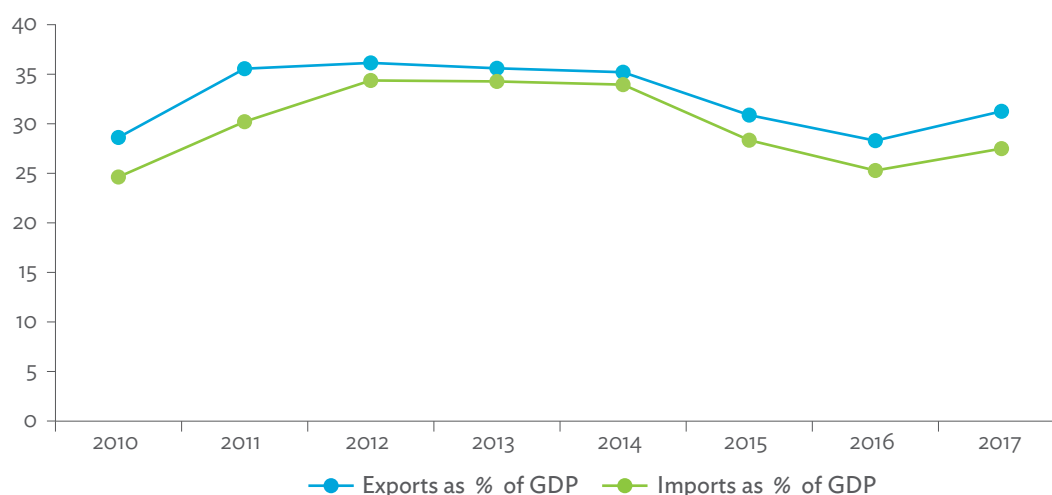


# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 4.3

### Indonesia

**Figure 4.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

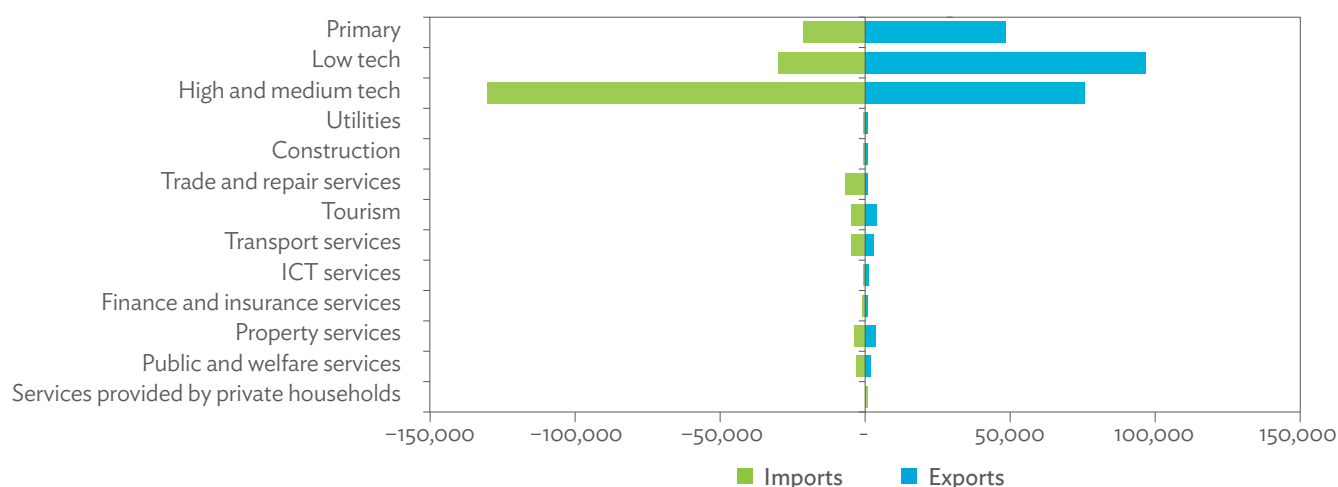


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

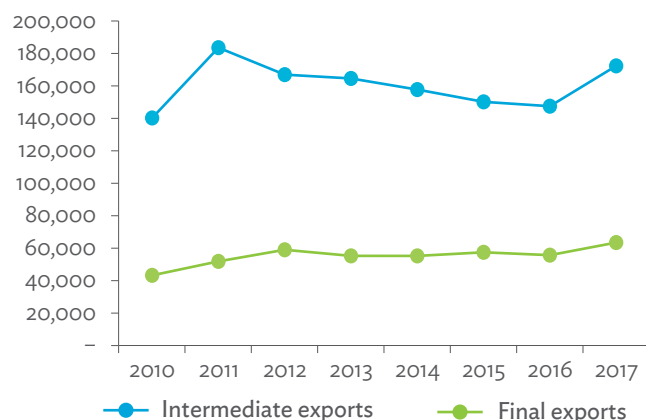


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

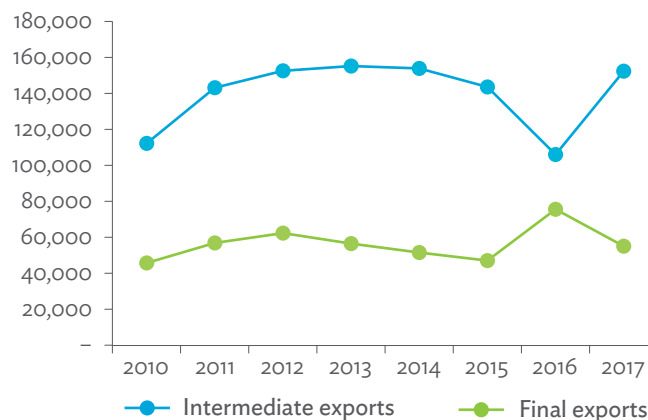


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

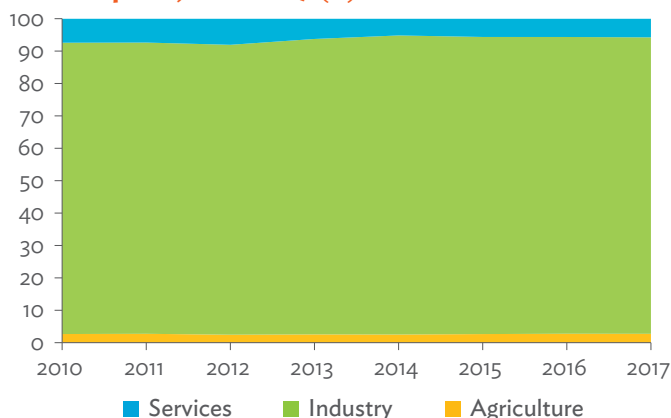


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

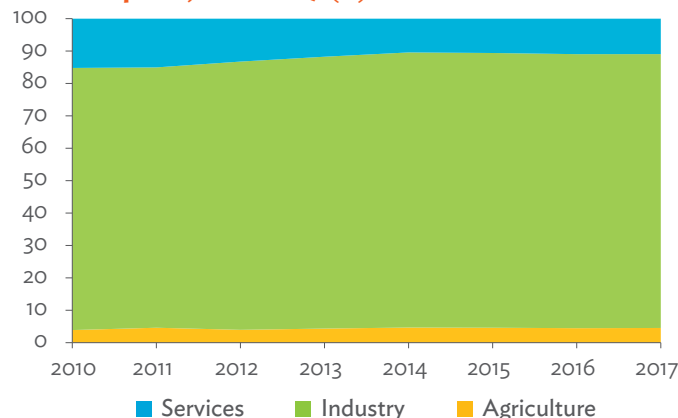
**Figure 4.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

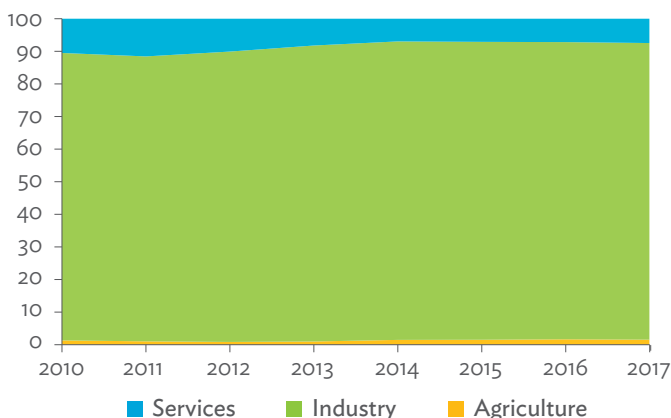
**Figure 4.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

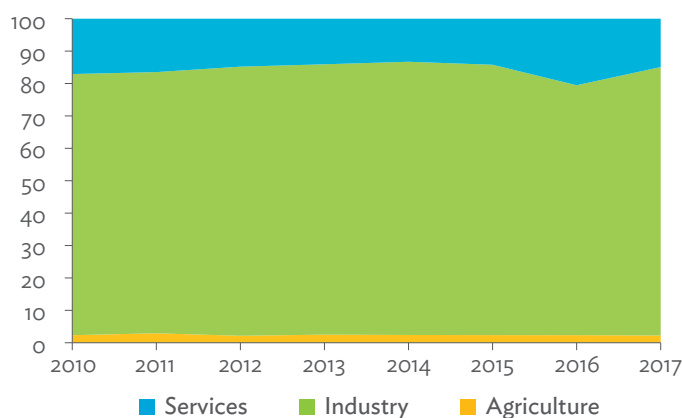
**Figure 4.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

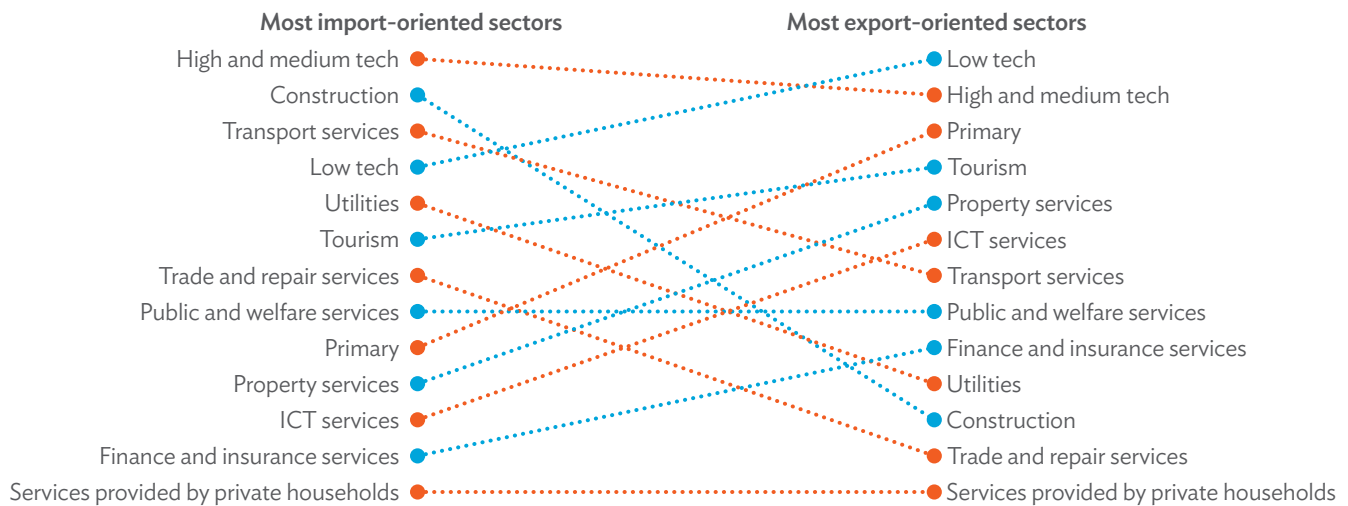
**Figure 4.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

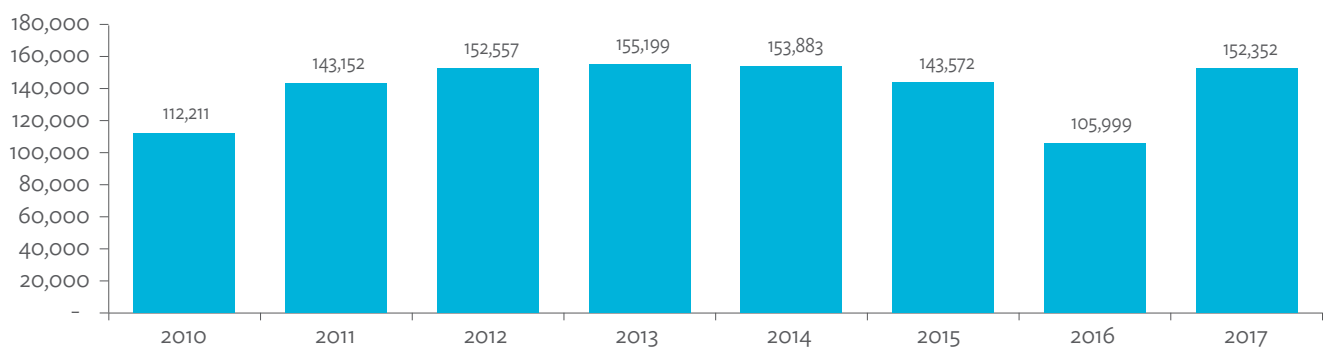


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

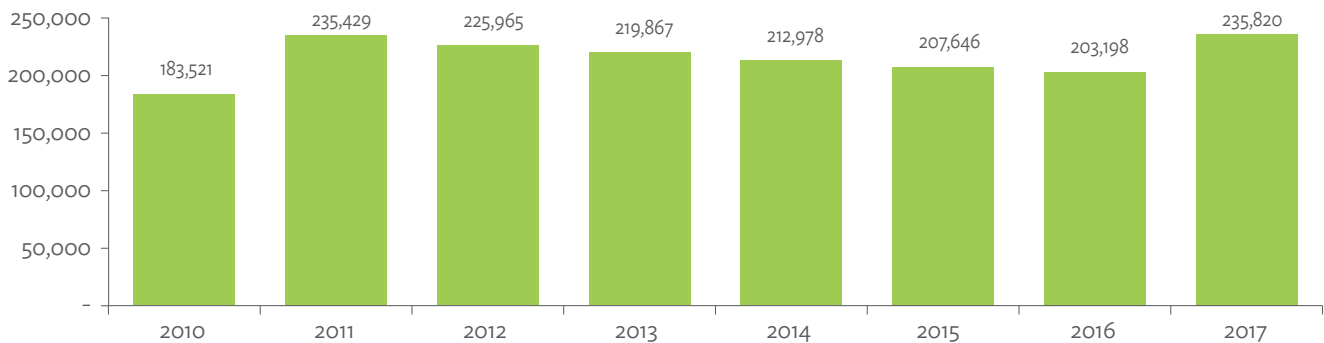


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

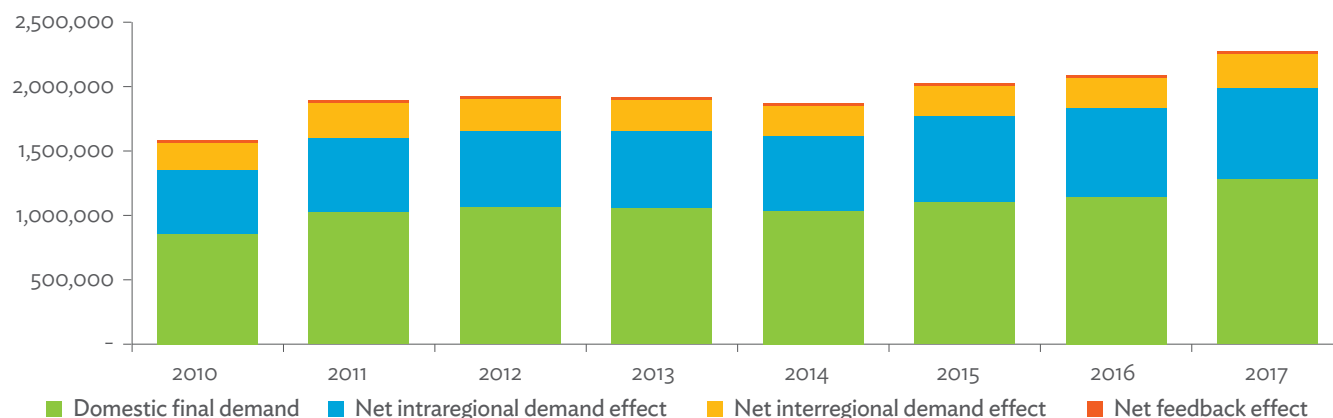
**Figure 4.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**



\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

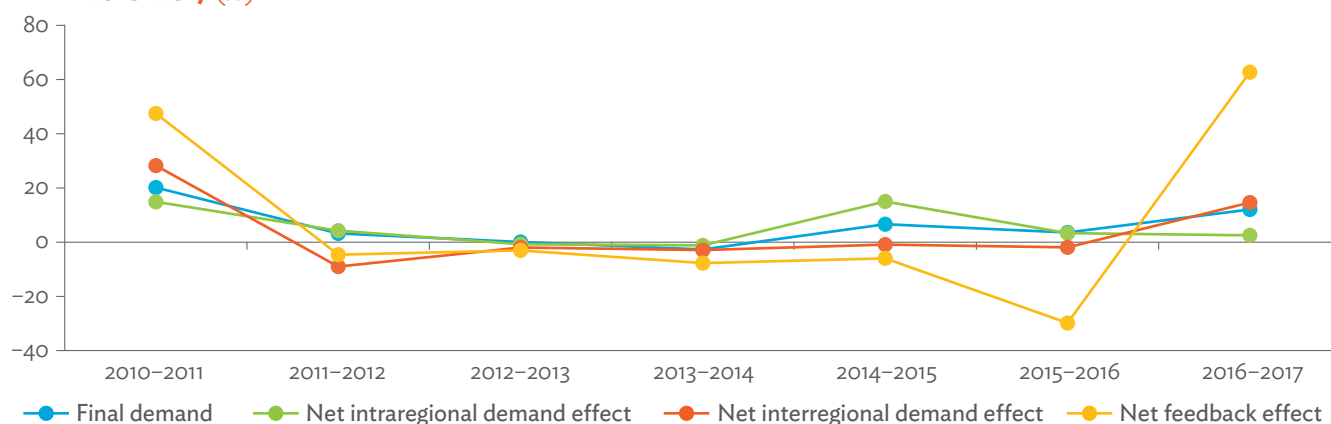
[Click here for figure data](#)

**Figure 4.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

\$ = United States dollar.

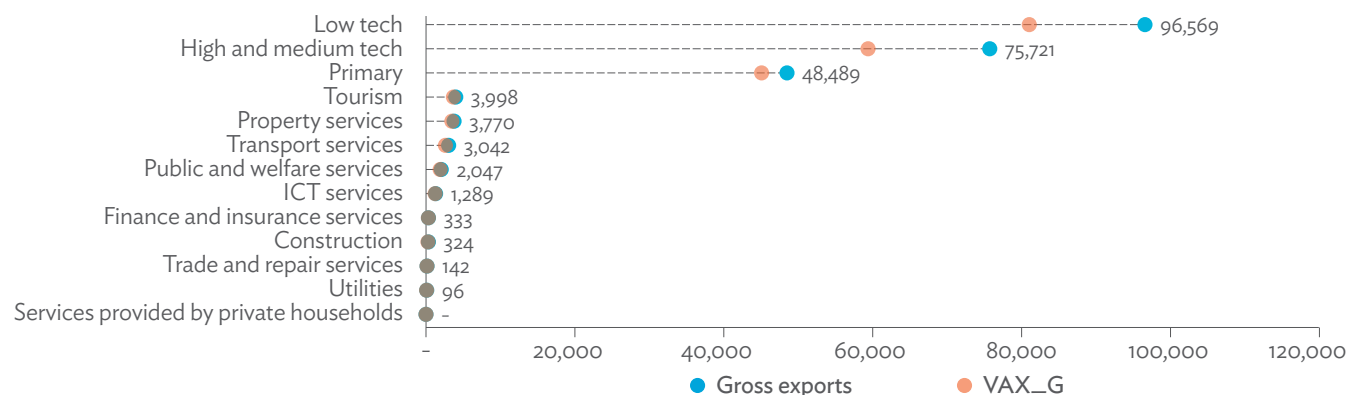
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

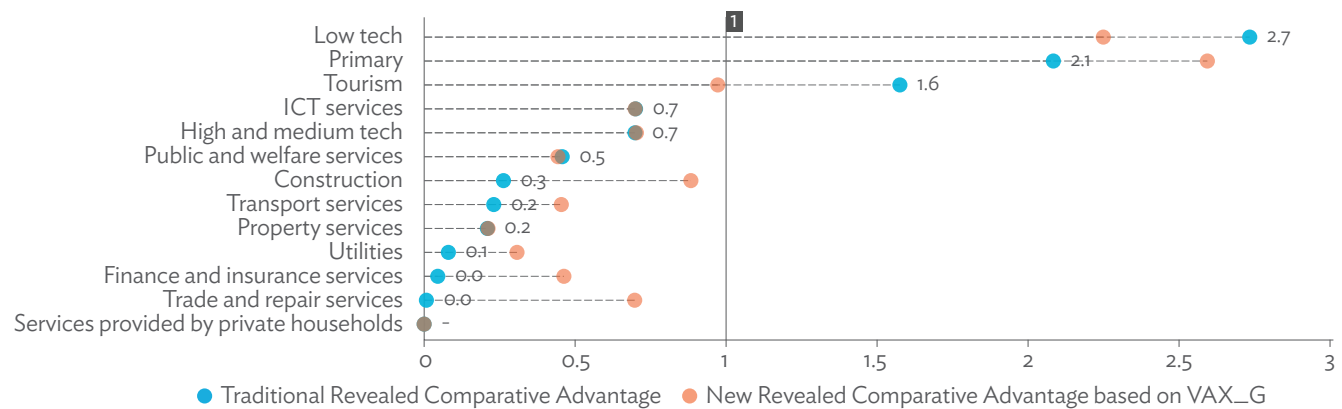
**Figure 4.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 4.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	96,793	124,885	121,340	118,844	107,398	97,183	106,641	118,725
Low tech	357,739	423,929	443,615	442,144	442,369	483,311	493,985	549,261
High and medium tech	103,984	125,672	125,228	125,009	118,943	121,854	124,665	141,397
Business service	193,294	229,051	239,987	243,287	236,832	255,423	267,560	309,328
Personal service	104,099	124,958	131,553	133,128	128,445	144,702	149,074	160,976
Intraregional effects (M1)								
Primary	109,304	127,220	137,402	133,275	125,046	132,832	138,491	147,320
Low tech	115,899	131,760	129,811	122,381	120,891	147,696	146,023	149,543
High and medium tech	97,554	110,586	118,344	118,254	113,886	132,504	140,794	139,324
Business service	158,349	182,984	190,194	197,242	203,395	235,348	245,037	251,070
Personal service	17,759	20,524	21,694	21,776	22,728	25,476	25,950	26,634

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 4.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	77,008	105,719	95,171	92,246	81,936	70,349	68,716	82,471
Low tech	57,693	71,327	68,306	66,908	70,299	73,964	71,864	81,506
High and medium tech	55,704	68,153	58,745	60,995	61,658	64,619	64,292	71,431
Business service	34,641	43,503	40,142	37,496	36,489	38,976	38,300	43,482
Personal service	3,145	3,968	3,961	3,460	3,137	3,356	3,314	3,628
Feedback effects (M3)								
Primary	346.65	548.37	530.95	503.59	427.66	350.61	250.92	420.14
Low tech	144.41	201.08	199.19	194.15	195.95	202.41	134.74	221.27
High and medium tech	194.34	268.55	242.28	248.77	246.17	251.45	177.94	279.11
Business service	102.35	144.29	135.93	129.03	122.77	127.83	90.36	144.47
Personal service	8.29	11.78	11.67	10.45	9.64	10.07	7.29	10.94

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 4.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.2492	0.2411	0.2385	0.2357	0.2351	0.2280	0.2342	0.2152
Mining and quarrying	0.3312	0.3219	0.3202	0.3171	0.3226	0.3367	0.3129	0.3211
Food, beverages, and tobacco	0.9244	0.9011	0.9022	0.8839	0.8844	0.8959	0.8399	0.8034
Textiles and textile products	0.6452	0.5979	0.5906	0.5681	0.5390	0.6147	0.7558	0.5978
Leather, leather products, and footwear	0.6026	0.5312	0.5284	0.5090	0.5154	0.5869	0.7136	0.5626
Wood and products of wood and cork	0.7997	0.7792	0.7691	0.7635	0.7639	0.8288	0.7768	0.7539
Pulp, paper, paper products, printing, and publishing	0.9788	0.9621	0.9295	0.8932	0.8999	0.9608	0.9889	0.9161
Coke, refined petroleum, and nuclear fuel	0.6425	0.6342	0.6361	0.6129	0.6100	0.6739	0.5582	0.7729
Chemicals and chemical products	0.8007	0.7599	0.7577	0.7366	0.7260	0.8004	0.8376	0.7539
Rubber and plastics	0.8983	0.8447	0.8333	0.8108	0.7978	0.8627	0.8891	0.8867
Other nonmetallic minerals	0.8380	0.8166	0.8055	0.7875	0.7901	0.8760	0.8138	0.8337
Basic metals and fabricated metal	0.7808	0.7620	0.7450	0.7333	0.7346	0.8077	0.8046	0.7892
Machinery, nec	0.6102	0.5593	0.5255	0.5231	0.5509	0.6898	0.9968	0.6515
Electrical and optical equipment	0.7236	0.7180	0.6974	0.6950	0.6953	0.8072	1.0290	0.7599
Transport equipment	0.6454	0.6423	0.6061	0.6036	0.6159	0.6813	0.7290	0.6384
Manufacturing, nec; recycling	0.8342	0.8054	0.7851	0.7752	0.7698	0.8202	0.8666	0.7945
Electricity, gas, and water supply	1.4616	1.4567	1.4120	1.3683	1.4074	1.4752	1.5189	1.4483
Construction	0.8659	0.8393	0.8160	0.8116	0.8137	0.8758	0.9163	0.8142
Sale, maintenance, and repair	0.4235	0.4152	0.4071	0.4043	0.4115	0.4649	0.4510	0.4100
Wholesale trade and commission trade	0.4552	0.4415	0.4343	0.4308	0.4419	0.4635	0.4585	0.4337
Retail trade	0.4556	0.4416	0.4345	0.4331	0.4412	0.4646	0.4571	0.4315
Hotels and restaurants	0.8271	0.8054	0.8021	0.7837	0.7871	0.8304	0.8018	0.7623
Inland transport	0.6420	0.6104	0.5895	0.5765	0.5859	0.5475	0.5399	0.5331
Water transport	0.8933	0.8552	0.8397	0.8386	0.8589	0.9131	0.9402	0.8905
Air transport	0.7677	0.7537	0.7401	0.7664	0.8061	0.7859	0.6797	0.6814
Other supporting and auxiliary transport activities	0.6535	0.6412	0.6386	0.6498	0.6689	0.6443	0.6423	0.6143
Post and telecommunications	0.4754	0.4694	0.4710	0.4774	0.4877	0.5010	0.4399	0.4187
Financial intermediation	0.3993	0.3940	0.3926	0.3943	0.3990	0.3925	0.2593	0.2516
Real estate activities	0.2740	0.2686	0.2646	0.2687	0.2735	0.2740	0.1845	0.1768
Renting of M&Eq and other business activities	0.5697	0.5561	0.5514	0.5562	0.5684	0.5852	0.5344	0.4999
Public administration and defense; compulsory social security	0.5358	0.5239	0.5244	0.5354	0.5556	0.5669	0.5391	0.5042
Education	0.5184	0.5051	0.4947	0.4866	0.4895	0.5070	0.4511	0.4186
Health and social work	0.8212	0.8031	0.8003	0.7853	0.7934	0.8185	0.7853	0.7326
Other community, social, and personal services	0.7312	0.7218	0.7163	0.7220	0.7335	0.7115	0.6631	0.6317
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 4.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0829	0.0922	0.0969	0.0999	0.1181	0.0965	0.0632	0.0902
Mining and quarrying	0.1639	0.1737	0.1727	0.1807	0.1816	0.1611	0.1628	0.1519
Food, beverages, and tobacco	0.1925	0.2273	0.2329	0.2440	0.2564	0.2184	0.1374	0.1924
Textiles and textile products	0.5790	0.6879	0.7042	0.7389	0.7867	0.7193	0.4991	0.7118
Leather, leather products, and footwear	0.8868	0.8038	0.7935	0.8163	0.7849	0.6903	0.4601	0.7165
Wood and products of wood and cork	0.2251	0.2541	0.2693	0.2812	0.2962	0.2724	0.2070	0.2434
Pulp, paper, paper products, printing, and publishing	0.4056	0.4398	0.4578	0.4860	0.4922	0.4364	0.3169	0.4126
Coke, refined petroleum, and nuclear fuel	0.2178	0.2266	0.2217	0.2538	0.2647	0.2502	0.6014	0.2840
Chemicals and chemical products	0.4896	0.5462	0.5520	0.5830	0.6159	0.5528	0.4040	0.5209
Rubber and plastics	0.5258	0.6046	0.6362	0.6541	0.6757	0.5958	0.6110	0.6133
Other nonmetallic minerals	0.3876	0.4132	0.4198	0.4474	0.4606	0.4280	0.4339	0.4038
Basic metals and fabricated metal	0.5240	0.5491	0.5730	0.5944	0.6072	0.5462	0.5043	0.5316
Machinery, nec	1.1963	1.2569	1.3133	1.3162	1.3058	1.2202	0.6688	1.1414
Electrical and optical equipment	0.9723	0.9962	1.0328	1.0547	1.0524	0.9602	0.5218	0.9006
Transport equipment	0.4448	0.4552	0.5084	0.5110	0.4966	0.4537	0.2870	0.4231
Manufacturing, nec; recycling	0.4493	0.4905	0.5195	0.5330	0.5496	0.4864	0.3693	0.4717
Electricity, gas, and water supply	0.3509	0.3891	0.4006	0.4344	0.4321	0.3896	0.2952	0.3786
Construction	0.4820	0.5156	0.5517	0.5655	0.5653	0.5040	0.3120	0.4675
Sale, maintenance, and repair	0.2343	0.2499	0.2602	0.2661	0.2592	0.2460	0.1553	0.2157
Wholesale trade and commission trade	0.1865	0.2072	0.2137	0.2197	0.2089	0.1860	0.1374	0.1726
Retail trade	0.1839	0.2060	0.2125	0.2150	0.2125	0.1897	0.1387	0.1741
Hotels and restaurants	0.1796	0.2108	0.2205	0.2320	0.2370	0.2101	0.1350	0.1905
Inland transport	0.3869	0.4378	0.4657	0.4883	0.4777	0.3689	0.3458	0.3542
Water transport	0.4351	0.4958	0.5154	0.5219	0.5019	0.4492	0.3630	0.4352
Air transport	0.6013	0.6335	0.6525	0.6194	0.5724	0.4631	0.4032	0.4002
Other supporting and auxiliary transport activities	0.2145	0.2320	0.2358	0.2292	0.2172	0.1810	0.1267	0.1637
Post and telecommunications	0.1537	0.1640	0.1613	0.1596	0.1508	0.1339	0.0763	0.1070
Financial intermediation	0.1120	0.1201	0.1196	0.1176	0.1210	0.1016	0.0533	0.0628
Real estate activities	0.0873	0.0931	0.0963	0.0957	0.0928	0.0814	0.0399	0.0497
Renting of M&Eq and other business activities	0.2670	0.2867	0.2919	0.2899	0.2819	0.2456	0.1564	0.2063
Public administration and defense; compulsory social security	0.2435	0.2635	0.2610	0.2491	0.2334	0.2007	0.1325	0.1773
Education	0.2300	0.2504	0.2580	0.2676	0.2683	0.2326	0.1473	0.1898
Health and social work	0.2911	0.3189	0.3281	0.3442	0.3434	0.2993	0.1923	0.2647
Other community, social, and personal services	0.2065	0.2230	0.2280	0.2286	0.2263	0.1875	0.1187	0.1628
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 4.3-5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0003	0.0004	0.0003	0.0003	0.0004	0.0003	0.0002	0.0003
Mining and quarrying	0.0005	0.0006	0.0006	0.0006	0.0005	0.0005	0.0004	0.0005
Food, beverages, and tobacco	0.0006	0.0008	0.0008	0.0007	0.0007	0.0006	0.0004	0.0006
Textiles and textile products	0.0019	0.0025	0.0022	0.0023	0.0024	0.0022	0.0015	0.0023
Leather, leather products, and footwear	0.0028	0.0028	0.0024	0.0024	0.0023	0.0020	0.0013	0.0022
Wood and products of wood and cork	0.0008	0.0010	0.0009	0.0009	0.0009	0.0008	0.0006	0.0008
Pulp, paper, paper products, printing, and publishing	0.0014	0.0017	0.0015	0.0016	0.0015	0.0013	0.0009	0.0013
Coke, refined petroleum, and nuclear fuel	0.0007	0.0008	0.0007	0.0008	0.0007	0.0007	0.0016	0.0008
Chemicals and chemical products	0.0017	0.0022	0.0019	0.0019	0.0019	0.0017	0.0012	0.0017
Rubber and plastics	0.0018	0.0024	0.0022	0.0022	0.0022	0.0019	0.0019	0.0021
Other nonmetallic minerals	0.0013	0.0016	0.0014	0.0014	0.0014	0.0013	0.0012	0.0013
Basic metals and fabricated metal	0.0018	0.0021	0.0019	0.0019	0.0018	0.0016	0.0015	0.0017
Machinery, nec	0.0033	0.0039	0.0035	0.0034	0.0032	0.0030	0.0016	0.0029
Electrical and optical equipment	0.0030	0.0035	0.0032	0.0031	0.0029	0.0026	0.0014	0.0026
Transport equipment	0.0014	0.0016	0.0016	0.0015	0.0014	0.0012	0.0008	0.0012
Manufacturing, nec; recycling	0.0015	0.0019	0.0017	0.0017	0.0017	0.0015	0.0011	0.0015
Electricity, gas, and water supply	0.0015	0.0019	0.0017	0.0017	0.0015	0.0013	0.0009	0.0014
Construction	0.0017	0.0021	0.0020	0.0019	0.0018	0.0015	0.0009	0.0015
Sale, maintenance, and repair	0.0008	0.0010	0.0009	0.0009	0.0008	0.0007	0.0005	0.0007
Wholesale trade and commission trade	0.0007	0.0009	0.0008	0.0008	0.0007	0.0006	0.0004	0.0006
Retail trade	0.0007	0.0009	0.0008	0.0008	0.0007	0.0006	0.0004	0.0006
Hotels and restaurants	0.0006	0.0008	0.0007	0.0007	0.0007	0.0006	0.0004	0.0006
Inland transport	0.0018	0.0023	0.0022	0.0021	0.0018	0.0013	0.0011	0.0013
Water transport	0.0018	0.0024	0.0023	0.0021	0.0018	0.0015	0.0011	0.0016
Air transport	0.0023	0.0029	0.0027	0.0024	0.0020	0.0016	0.0013	0.0015
Other supporting and auxiliary transport activities	0.0007	0.0009	0.0008	0.0008	0.0007	0.0005	0.0004	0.0005
Post and telecommunications	0.0004	0.0005	0.0005	0.0004	0.0004	0.0004	0.0002	0.0003
Financial intermediation	0.0003	0.0004	0.0004	0.0003	0.0003	0.0003	0.0001	0.0002
Real estate activities	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	0.0001	0.0002
Renting of M&Eq and other business activities	0.0008	0.0010	0.0009	0.0009	0.0008	0.0007	0.0004	0.0006
Public administration and defense; compulsory social security	0.0008	0.0010	0.0009	0.0008	0.0007	0.0006	0.0004	0.0006
Education	0.0008	0.0009	0.0009	0.0009	0.0008	0.0007	0.0004	0.0006
Health and social work	0.0009	0.0012	0.0011	0.0011	0.0010	0.0009	0.0005	0.0008
Other community, social, and personal services	0.0006	0.0008	0.0007	0.0007	0.0007	0.0005	0.0003	0.0005
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 4.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	48,635	44,846	68,656	63,022	62,337	57,219	60,102	55,058	50,488	46,266	40,854	37,873	39,725	36,876	48,489	45,075
Low tech	61,001	51,088	75,692	62,235	76,690	62,864	77,166	62,802	83,838	67,935	85,993	71,834	84,175	73,311	96,569	81,029
High and medium tech	58,388	45,236	70,878	54,767	66,961	51,043	67,315	51,056	66,334	49,847	67,922	52,444	66,656	53,623	75,721	59,375
Utilities	65	56	86	72	88	74	65	54	76	63	78	66	79	69	96	81
Construction	517	419	646	516	524	414	418	329	277	218	290	236	278	244	324	268
Trade and repair services	52	47	212	193	79	72	169	154	120	110	123	113	123	116	142	132
Tourism	4,385	4,041	5,156	4,691	5,523	5,012	4,301	3,885	3,501	3,157	3,636	3,320	3,511	3,310	3,998	3,681
Transport services	3,117	2,504	4,433	3,508	3,900	3,067	2,900	2,304	2,349	1,894	2,449	2,062	2,427	2,091	3,042	2,610
ICT services	1,398	1,303	1,841	1,709	1,622	1,510	1,267	1,183	1,022	958	1,054	996	1,052	1,017	1,289	1,231
Finance and insurance services	113	107	153	144	146	138	175	166	281	266	296	282	284	276	333	323
Property services	3,841	3,427	5,083	4,506	5,229	4,635	3,886	3,458	3,005	2,685	3,186	2,891	3,146	2,952	3,770	3,475
Public and welfare services	2,009	1,813	2,594	2,329	2,863	2,568	2,104	1,893	1,686	1,522	1,767	1,622	1,744	1,650	2,047	1,902
Services provided by private households	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

\$ = United States dollar, ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 4.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	2.437	2.646	2.399	2.499	2.268	2.496	2.371	2.583	2.186	2.561	2.032	2.502	2.069	2.497	2.084	2.594
Low tech	2.304	1.905	2.269	1.879	2.408	1.926	2.407	1.932	2.646	2.102	2.767	2.211	2.775	2.289	2.734	2.249
High and medium tech	0.680	0.697	0.644	0.672	0.639	0.678	0.665	0.706	0.676	0.712	0.705	0.741	0.716	0.726	0.698	0.703
Utilities	0.079	0.267	0.082	0.256	0.086	0.249	0.064	0.228	0.076	0.271	0.077	0.305	0.064	0.331	0.080	0.308
Construction	0.717	0.921	0.715	0.898	0.572	0.785	0.353	0.803	0.253	0.834	0.262	1.065	0.223	0.793	0.263	0.883
Trade and repair services	0.004	0.681	0.012	0.661	0.004	0.638	0.010	0.642	0.007	0.686	0.007	0.729	0.007	0.748	0.008	0.697
Tourism	2.264	1.316	2.074	1.223	2.361	1.343	1.846	1.135	1.516	1.005	1.624	1.006	1.403	0.955	1.576	0.972
Transport services	0.285	0.352	0.338	0.366	0.305	0.358	0.238	0.347	0.198	0.369	0.208	0.432	0.214	0.465	0.231	0.454
ICT services	1.136	0.931	1.243	0.952	1.038	0.919	0.840	0.825	0.691	0.792	0.722	0.831	0.702	0.824	0.700	0.699
Finance and insurance services	0.020	0.382	0.022	0.389	0.022	0.405	0.027	0.408	0.043	0.418	0.046	0.440	0.043	0.476	0.045	0.463
Property services	0.320	0.220	0.337	0.224	0.362	0.231	0.260	0.201	0.200	0.185	0.208	0.197	0.204	0.203	0.210	0.212
Public and welfare services	0.586	0.473	0.632	0.480	0.704	0.520	0.499	0.431	0.416	0.408	0.427	0.435	0.405	0.437	0.457	0.443
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

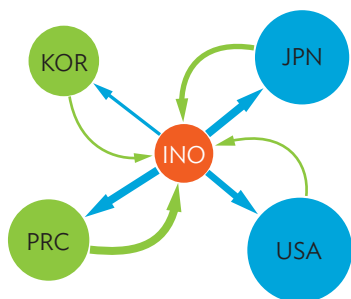
Source: Asian Development Bank Multi-Regional Input-Output Database.

# 4.4

## GLOBAL VALUE CHAIN INDICATORS

### Indonesia

**Figure 4.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

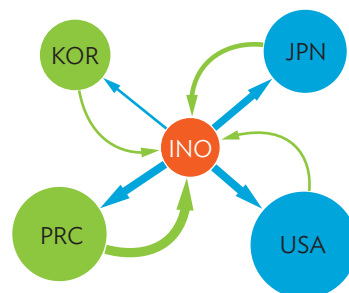
INO = Indonesia, JPN = Japan, KOR = Republic of Korea, PRC = People's Republic of China, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

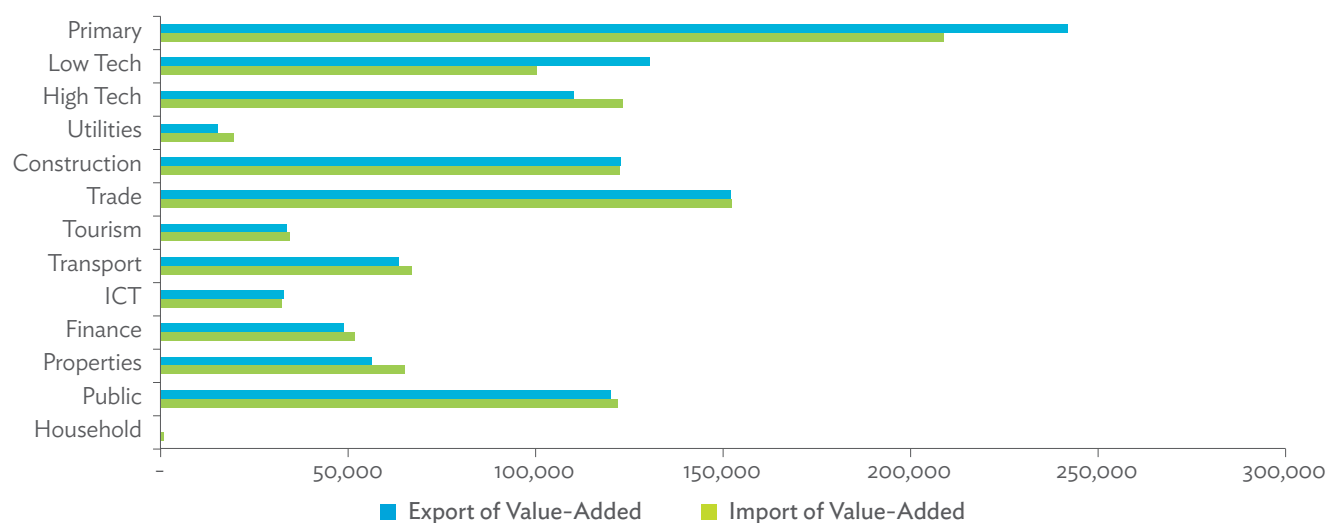
INO = Indonesia, JPN = Japan, KOR = Republic of Korea, PRC = People's Republic of China, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

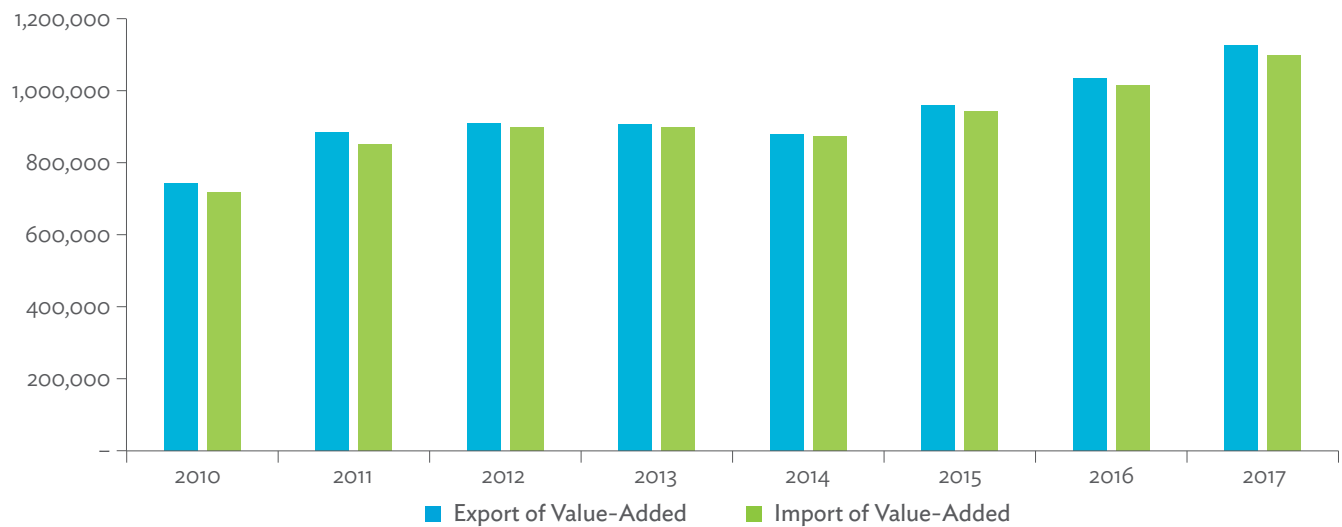
**Figure 4.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

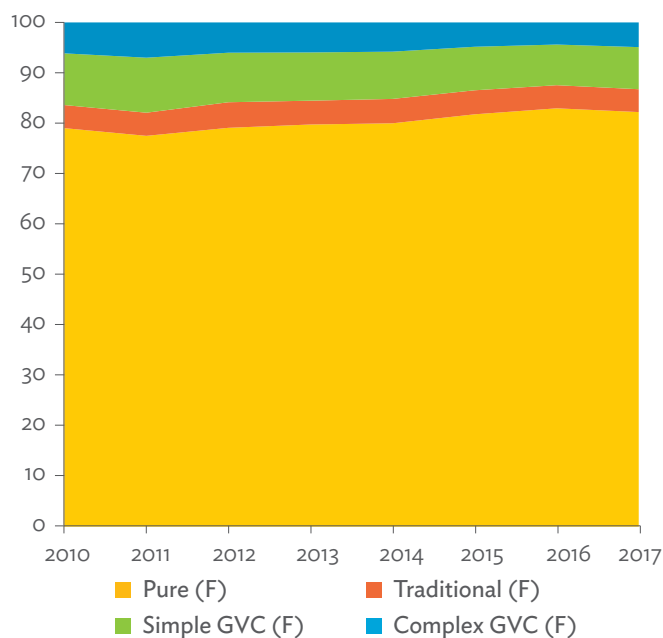
[Click here for figure data](#)

**Figure 4.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

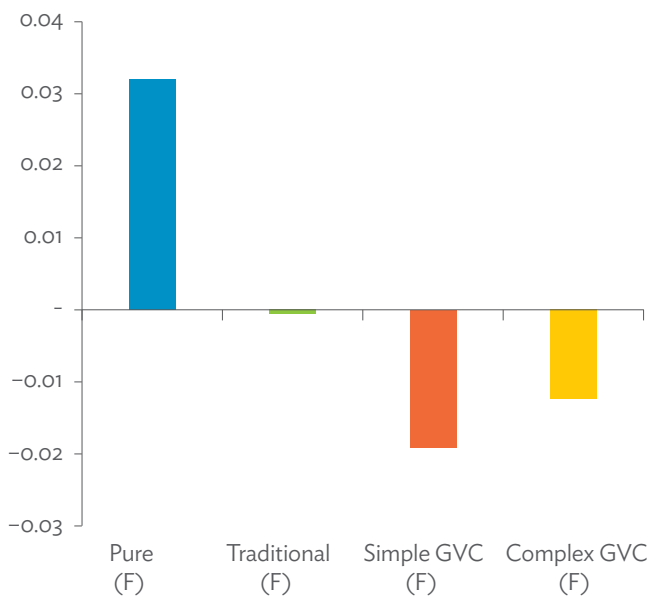
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**Figure 4.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

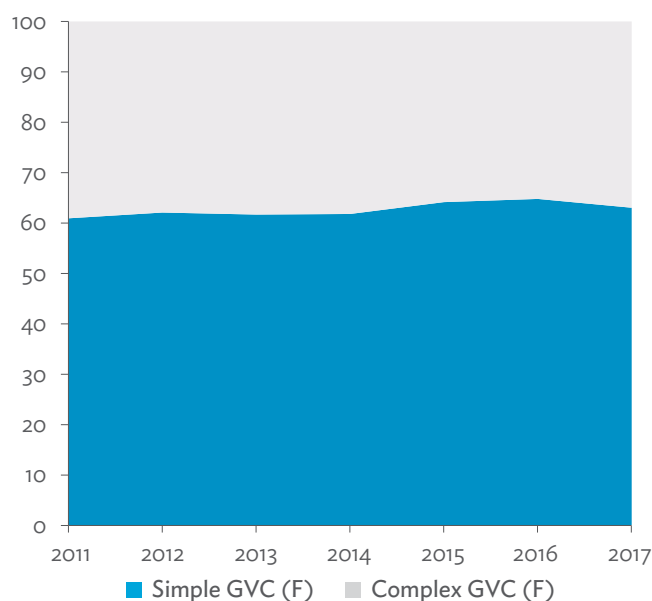
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

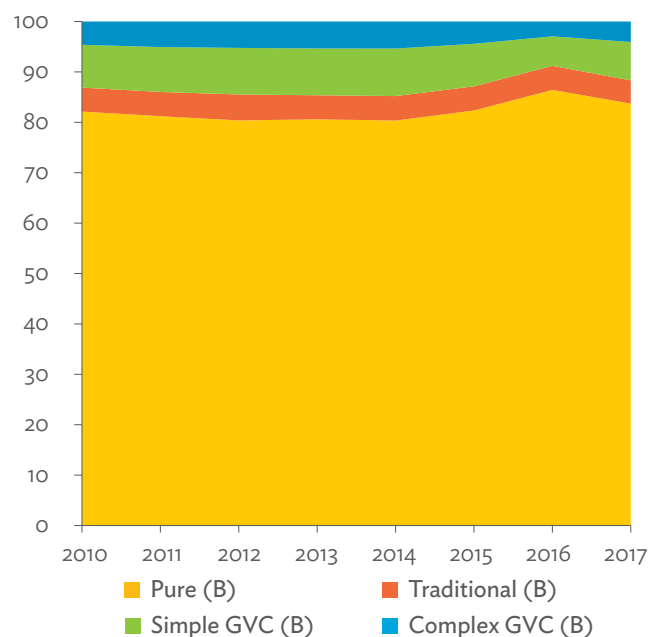


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

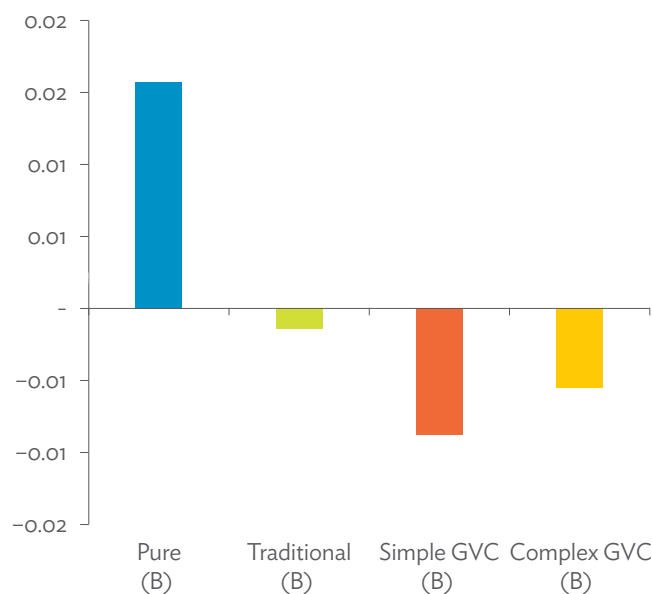


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



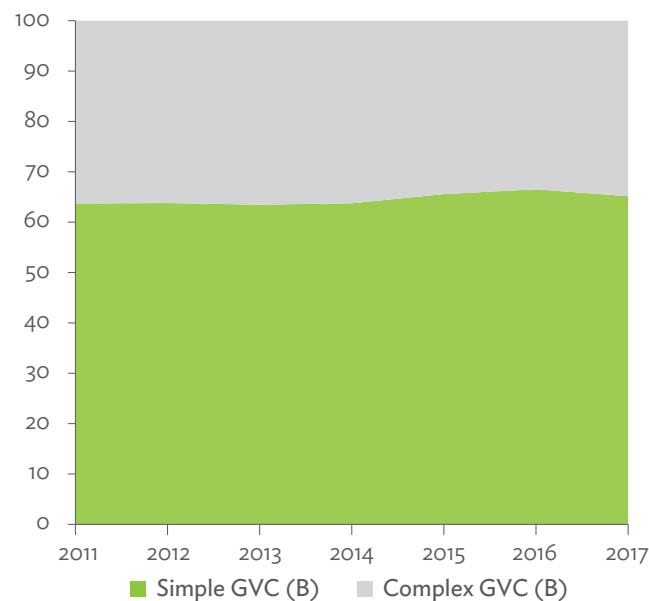
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

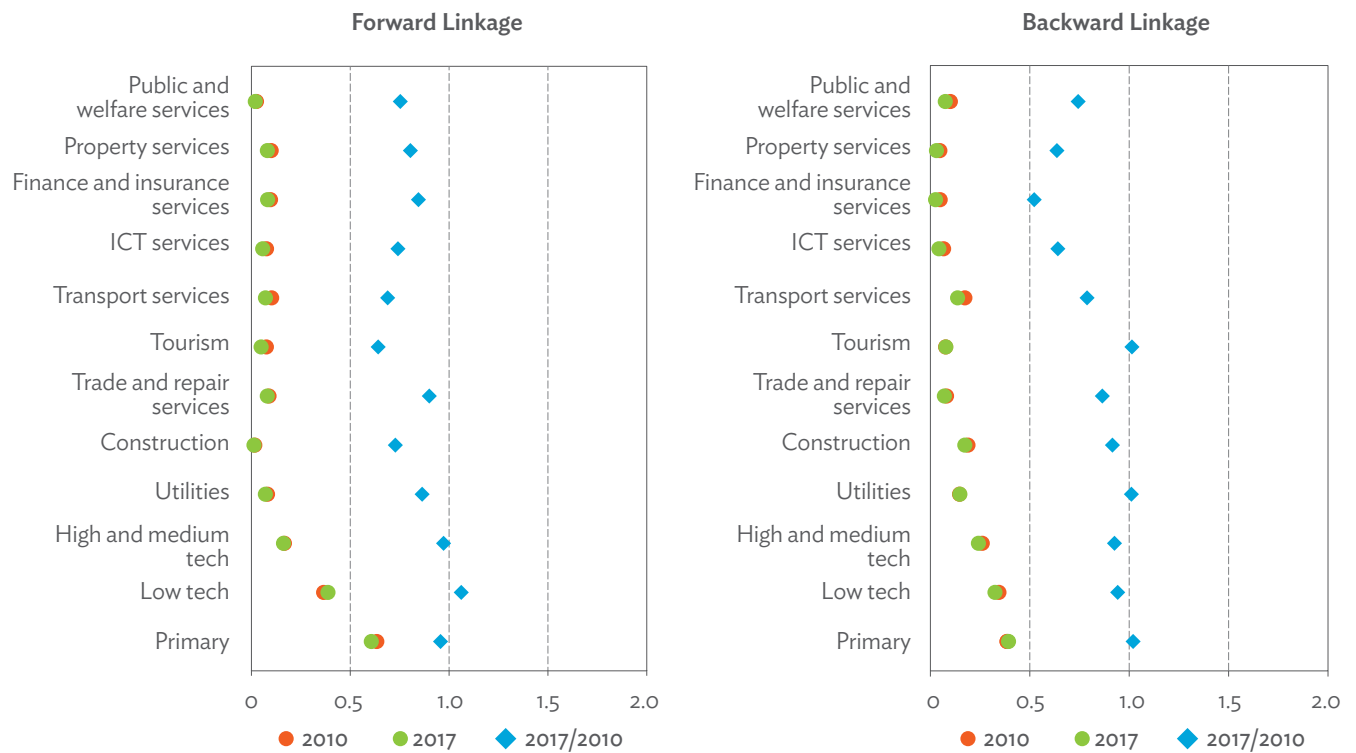


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

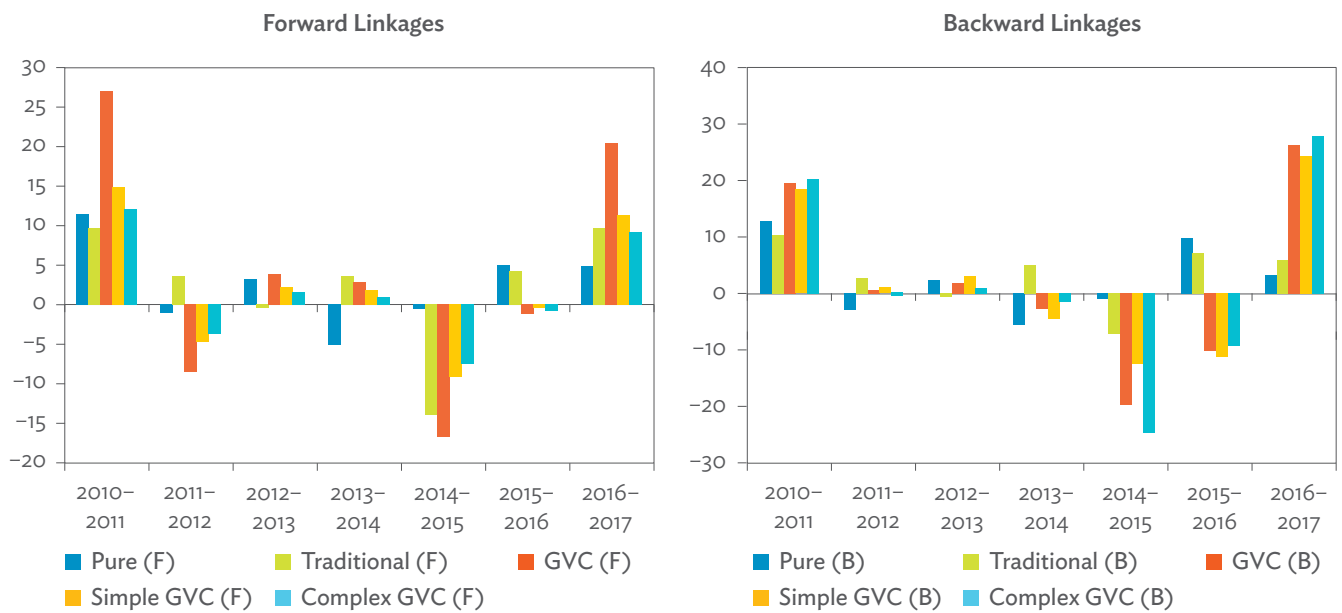


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

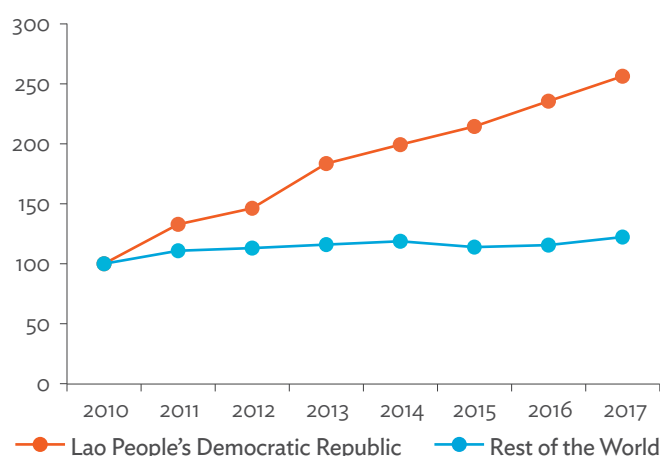
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# 5.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Lao People's Democratic Republic

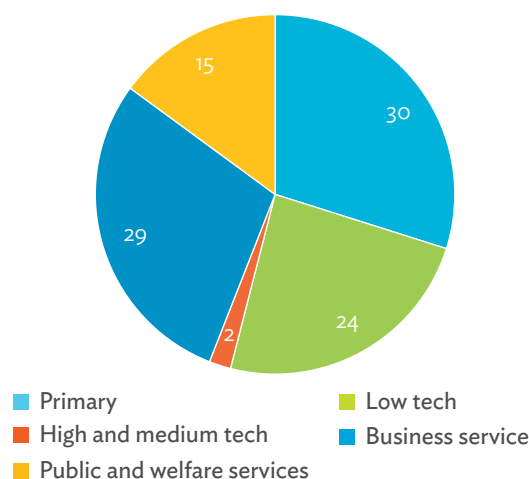
**Figure 5.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

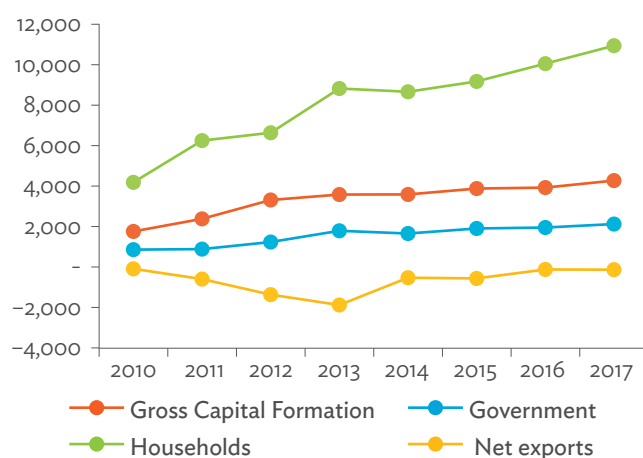
**Figure 5.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

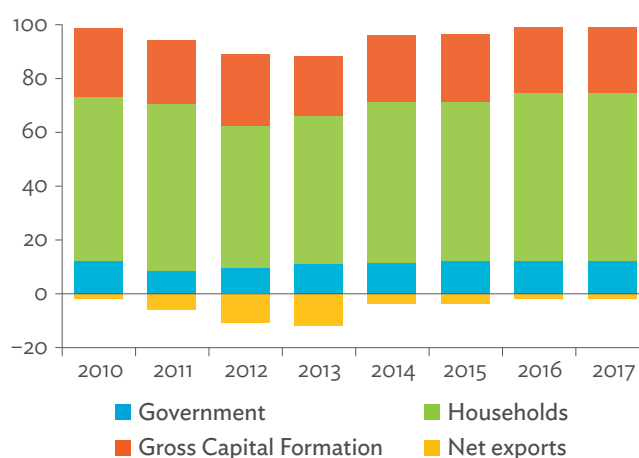


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

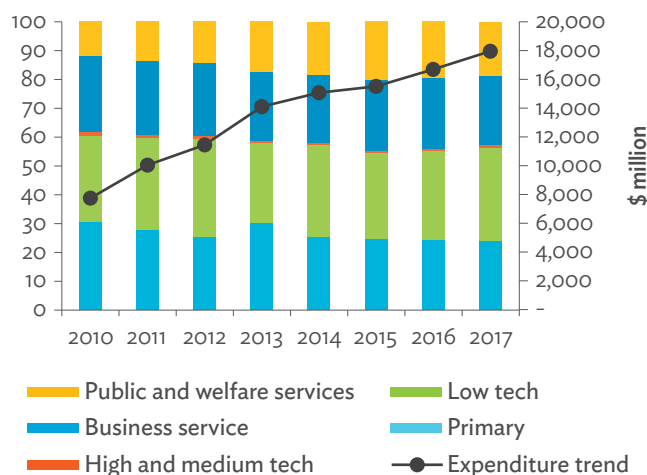
**Figure 5.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

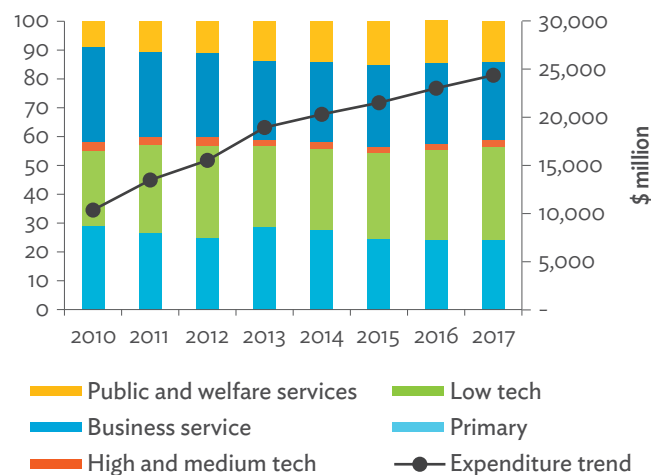


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

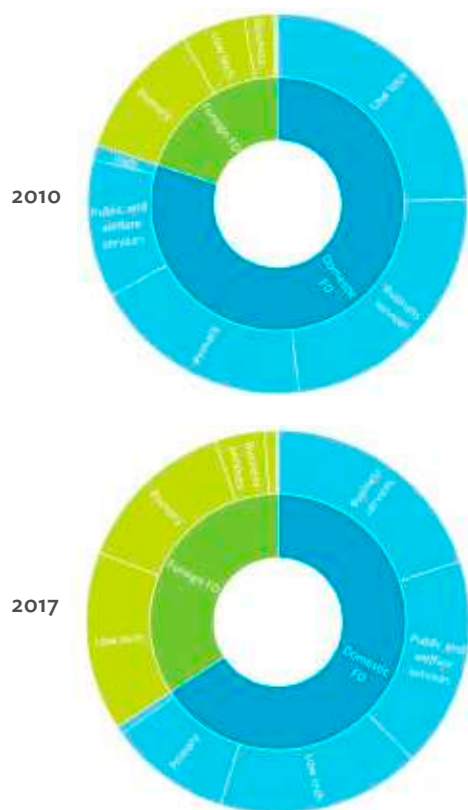


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

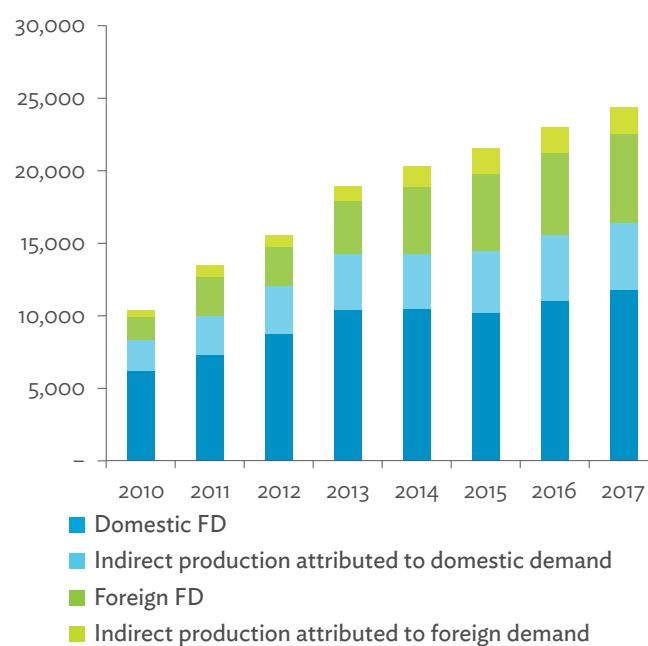


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

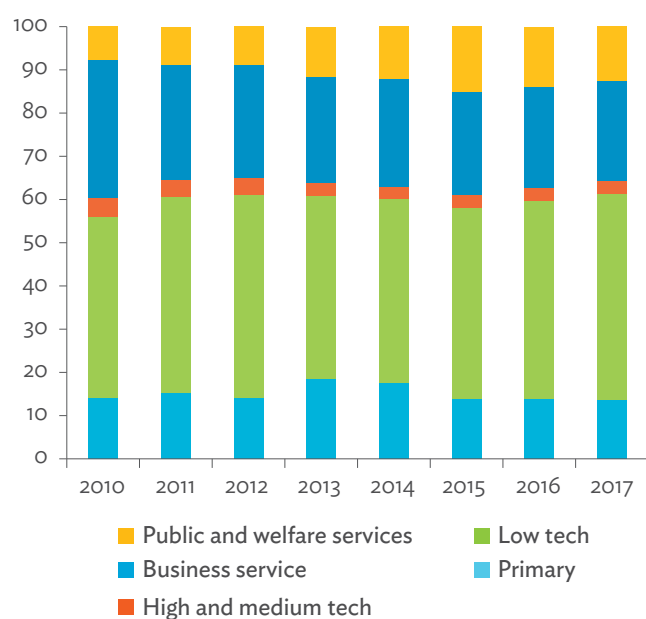


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

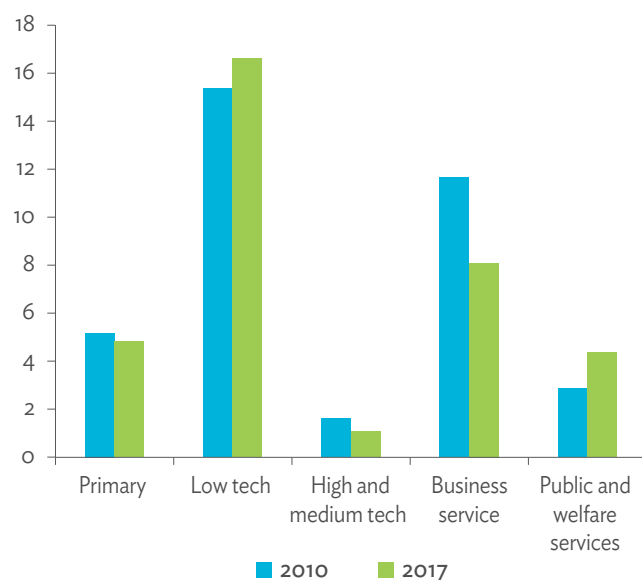
**Figure 5.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

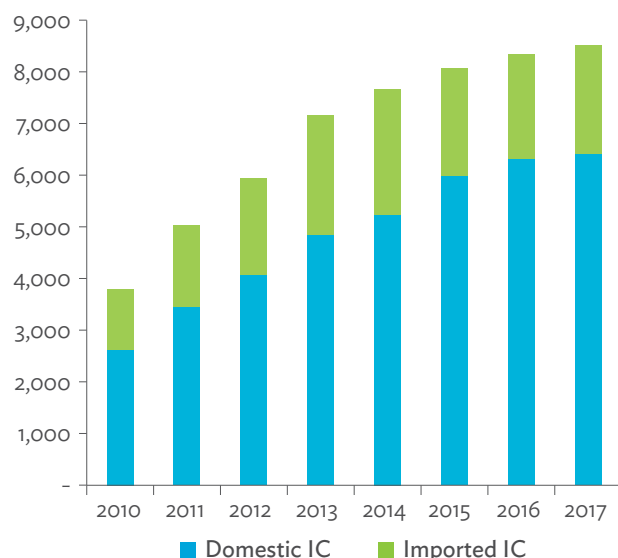
**Figure 5.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

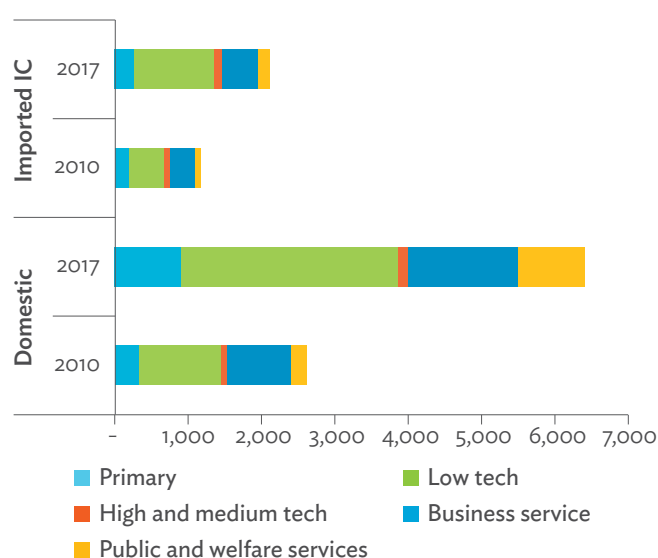


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**



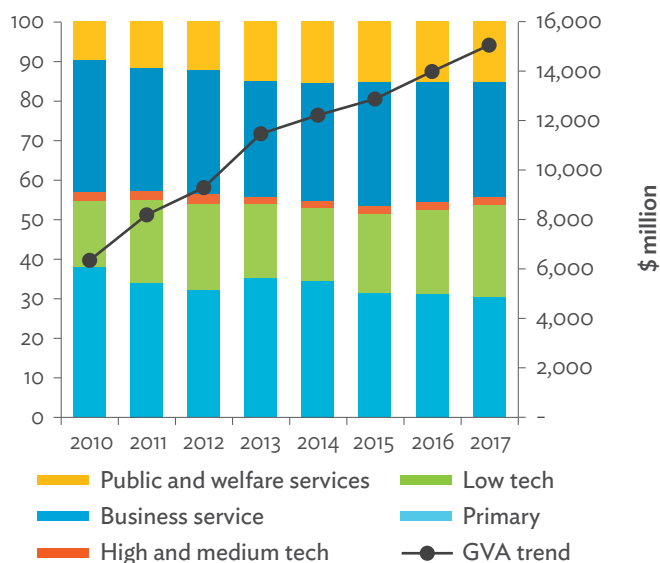
\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 5.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

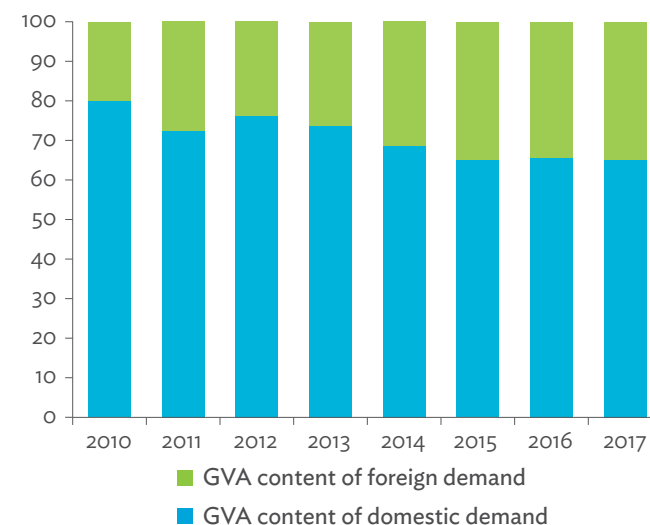


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

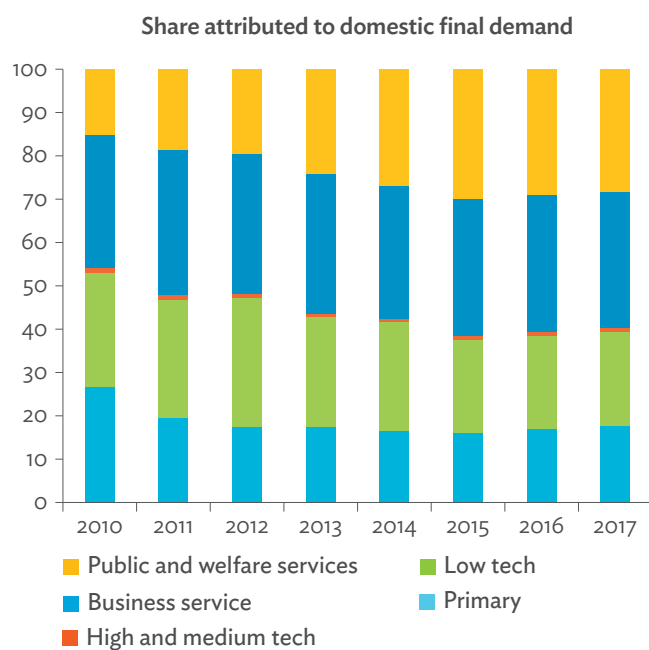


GVA = gross value added.

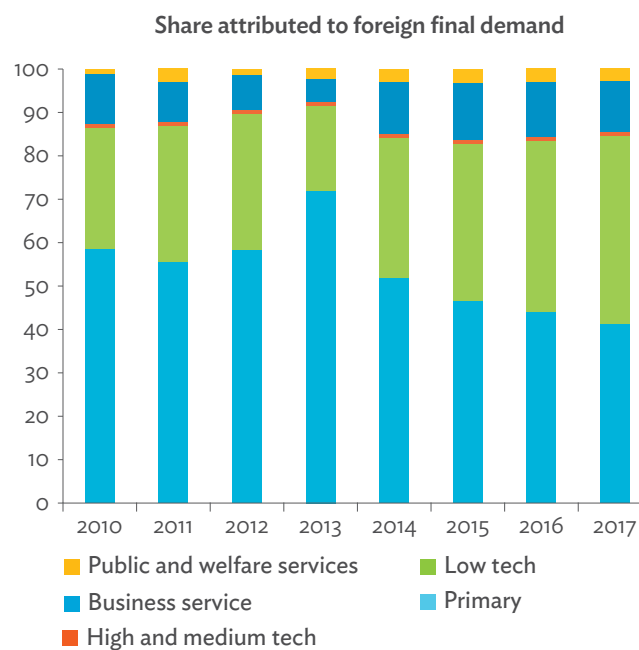
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.



[Click here for figure data](#)

**Table 5.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.936	0.946	0.946	0.945	0.937	0.950	0.953	0.953
Mining and quarrying	0.801	0.801	0.804	0.804	0.844	0.856	0.857	0.855
Food, beverages, and tobacco	0.840	0.850	0.854	0.850	0.816	0.843	0.814	0.810
Textiles and textile products	0.797	0.797	0.802	0.795	0.756	0.792	0.767	0.762
Leather, leather products, and footwear	0.799	0.797	0.802	0.805	0.759	0.792	0.792	0.786
Wood and products of wood and cork	0.851	0.848	0.851	0.845	0.814	0.835	0.831	0.821
Pulp, paper, paper products, printing, and publishing	0.834	0.837	0.841	0.833	0.798	0.803	0.791	0.776
Coke, refined petroleum, and nuclear fuel	0.679	0.683	0.691	0.686	0.617	0.673	0.690	0.688
Chemicals and chemical products	0.733	0.719	0.727	0.720	0.665	0.701	0.707	0.700
Rubber and plastics	0.577	0.565	0.576	0.566	0.484	0.545	0.560	0.552
Other nonmetallic minerals	0.753	0.752	0.758	0.754	0.722	0.757	0.761	0.757
Basic metals and fabricated metal	0.527	0.522	0.527	0.523	0.425	0.527	0.533	0.532
Machinery, nec	0.597	0.530	0.554	0.458	0.435	0.426	0.540	0.503
Electrical and optical equipment	0.276	0.538	0.586	0.580	0.489	0.547	0.548	0.539
Transport equipment	0.338	0.293	0.305	0.295	0.156	0.248	0.255	0.239
Manufacturing, nec; recycling	0.799	0.794	0.798	0.792	0.720	0.777	0.776	0.769
Electricity, gas, and water supply	0.882	0.887	0.889	0.886	0.870	0.893	0.900	0.906
Construction	0.578	0.562	0.575	0.561	0.587	0.606	0.632	0.626
Sale, maintenance, and repair	0.799	0.808	0.818	0.806	0.795	0.801	0.801	0.797
Wholesale trade and commission trade	0.872	0.862	0.885	0.878	0.872	0.884	0.886	0.883
Retail trade	0.842	0.848	0.857	0.847	0.841	0.832	0.858	0.854
Hotels and restaurants	0.811	0.797	0.805	0.800	0.768	0.792	0.785	0.771
Inland transport	0.718	0.700	0.707	0.700	0.658	0.695	0.710	0.704
Water transport	0.176	0.176	0.178	0.176	0.114	0.116	0.116	0.116
Air transport	0.155	0.154	0.156	0.155	0.099	0.102	0.103	0.103
Other supporting and auxiliary transport activities	0.277	0.275	0.277	0.276	0.220	0.224	0.224	0.225
Post and telecommunications	0.875	0.871	0.875	0.869	0.838	0.859	0.858	0.854
Financial intermediation	0.891	0.894	0.900	0.896	0.898	0.944	0.945	0.943
Real estate activities	0.948	0.961	0.964	0.955	0.958	0.963	0.965	0.965
Renting of M&Eq and other business activities	0.870	0.890	0.900	0.887	0.881	0.900	0.899	0.896
Public administration and defense; compulsory social security	0.831	0.846	0.854	0.848	0.862	0.830	0.848	0.857
Education	0.912	0.925	0.931	0.911	0.897	0.911	0.917	0.919
Health and social work	0.749	0.756	0.759	0.757	0.798	0.793	0.809	0.818
Other community, social, and personal services	0.856	0.871	0.875	0.869	0.839	0.864	0.866	0.864
Private households with employed persons	1.000	1.000	1.000	0.998	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 5.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.041	0.047	0.047	0.047	0.053	0.038	0.034	0.032
Mining and quarrying	0.173	0.172	0.170	0.178	0.131	0.105	0.099	0.097
Food, beverages, and tobacco	0.124	0.131	0.129	0.131	0.160	0.126	0.151	0.150
Textiles and textile products	0.170	0.171	0.170	0.172	0.205	0.158	0.177	0.173
Leather, leather products, and footwear	0.169	0.169	0.168	0.161	0.200	0.155	0.147	0.143
Wood and products of wood and cork	0.115	0.117	0.117	0.119	0.141	0.107	0.100	0.098
Pulp, paper, paper products, printing, and publishing	0.132	0.114	0.114	0.115	0.138	0.116	0.113	0.110
Coke, refined petroleum, and nuclear fuel	0.293	0.292	0.285	0.288	0.354	0.287	0.263	0.259
Chemicals and chemical products	0.240	0.218	0.216	0.215	0.256	0.194	0.173	0.163
Rubber and plastics	0.392	0.369	0.364	0.365	0.433	0.346	0.314	0.305
Other nonmetallic minerals	0.216	0.211	0.209	0.211	0.235	0.185	0.175	0.171
Basic metals and fabricated metal	0.447	0.435	0.435	0.433	0.523	0.411	0.397	0.392
Machinery, nec	0.376	0.338	0.328	0.407	0.458	0.436	0.292	0.306
Electrical and optical equipment	0.713	0.320	0.287	0.271	0.329	0.217	0.177	0.144
Transport equipment	0.634	0.491	0.504	0.481	0.575	0.402	0.336	0.291
Manufacturing, nec; recycling	0.171	0.171	0.170	0.171	0.237	0.167	0.158	0.155
Electricity, gas, and water supply	0.093	0.097	0.095	0.098	0.109	0.080	0.076	0.072
Construction	0.391	0.385	0.380	0.397	0.363	0.330	0.294	0.292
Sale, maintenance, and repair	0.171	0.170	0.161	0.173	0.180	0.167	0.163	0.162
Wholesale trade and commission trade	0.102	0.119	0.097	0.104	0.106	0.088	0.082	0.081
Retail trade	0.131	0.130	0.123	0.133	0.135	0.138	0.106	0.105
Hotels and restaurants	0.153	0.143	0.140	0.147	0.167	0.128	0.122	0.118
Inland transport	0.253	0.233	0.227	0.228	0.254	0.198	0.171	0.166
Water transport	0.801	0.806	0.805	0.804	0.866	0.860	0.858	0.855
Air transport	0.822	0.828	0.827	0.827	0.882	0.875	0.872	0.869
Other supporting and auxiliary transport activities	0.700	0.703	0.702	0.701	0.755	0.745	0.742	0.739
Post and telecommunications	0.098	0.102	0.099	0.103	0.128	0.100	0.095	0.092
Financial intermediation	0.075	0.093	0.088	0.093	0.089	0.043	0.042	0.042
Real estate activities	0.029	0.035	0.032	0.040	0.037	0.031	0.028	0.027
Renting of M&Eq and other business activities	0.103	0.089	0.080	0.094	0.097	0.074	0.071	0.071
Public administration and defense; compulsory social security	0.140	0.128	0.122	0.133	0.116	0.138	0.116	0.105
Education	0.063	0.062	0.058	0.080	0.093	0.072	0.064	0.060
Health and social work	0.226	0.212	0.212	0.222	0.175	0.170	0.148	0.134
Other community, social, and personal services	0.105	0.110	0.107	0.113	0.139	0.108	0.101	0.099
Private households with employed persons	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 5.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.097	1.112	1.114	1.113	1.104	1.110	1.103	1.098
Mining and quarrying	1.243	1.236	1.236	1.243	1.304	1.320	1.318	1.309
Food, beverages, and tobacco	1.735	1.763	1.774	1.761	1.722	1.753	1.707	1.698
Textiles and textile products	1.530	1.525	1.536	1.524	1.440	1.480	1.432	1.422
Leather, leather products, and footwear	1.531	1.524	1.535	1.525	1.440	1.475	1.469	1.457
Wood and products of wood and cork	1.616	1.615	1.629	1.625	1.562	1.573	1.563	1.549
Pulp, paper, paper products, printing, and publishing	1.604	1.599	1.615	1.609	1.541	1.532	1.510	1.490
Coke, refined petroleum, and nuclear fuel	1.349	1.343	1.352	1.345	1.239	1.320	1.341	1.334
Chemicals and chemical products	1.303	1.272	1.280	1.270	1.174	1.224	1.224	1.211
Rubber and plastics	1.483	1.449	1.460	1.447	1.303	1.394	1.413	1.399
Other nonmetallic minerals	1.457	1.442	1.443	1.434	1.378	1.432	1.427	1.418
Basic metals and fabricated metal	1.214	1.203	1.207	1.203	1.044	1.204	1.214	1.209
Machinery, nec	1.201	1.120	1.157	1.000	1.276	1.264	1.453	1.390
Electrical and optical equipment	1.080	1.059	1.137	1.128	1.000	1.090	1.089	1.071
Transport equipment	1.305	1.226	1.241	1.227	1.008	1.160	1.171	1.142
Manufacturing, nec; recycling	1.437	1.432	1.444	1.439	1.343	1.413	1.410	1.400
Electricity, gas, and water supply	1.177	1.181	1.181	1.181	1.157	1.181	1.170	1.161
Construction	1.469	1.449	1.456	1.459	1.466	1.573	1.631	1.625
Sale, maintenance, and repair	1.399	1.381	1.386	1.387	1.363	1.381	1.379	1.374
Wholesale trade and commission trade	1.238	1.210	1.233	1.234	1.219	1.242	1.239	1.233
Retail trade	1.306	1.292	1.296	1.297	1.279	1.269	1.308	1.302
Hotels and restaurants	1.707	1.673	1.688	1.674	1.634	1.669	1.654	1.628
Inland transport	1.378	1.338	1.344	1.336	1.243	1.284	1.309	1.297
Water transport	1.099	1.097	1.098	1.097	1.000	1.000	1.000	1.000
Air transport	1.102	1.100	1.101	1.100	1.015	1.017	1.018	1.018
Other supporting and auxiliary transport activities	1.086	1.083	1.084	1.083	1.007	1.008	1.008	1.008
Post and telecommunications	1.282	1.276	1.280	1.278	1.241	1.237	1.258	1.250
Financial intermediation	1.603	1.584	1.588	1.591	1.592	1.330	1.330	1.325
Real estate activities	1.096	1.119	1.118	1.123	1.120	1.120	1.123	1.118
Renting of M&Eq and other business activities	1.304	1.316	1.324	1.313	1.307	1.315	1.313	1.304
Public administration and defense; compulsory social security	1.361	1.364	1.369	1.383	1.395	1.511	1.480	1.425
Education	1.209	1.216	1.218	1.204	1.220	1.334	1.318	1.291
Health and social work	1.151	1.148	1.151	1.156	1.223	1.337	1.321	1.288
Other community, social, and personal services	1.232	1.242	1.244	1.244	1.222	1.271	1.272	1.264
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

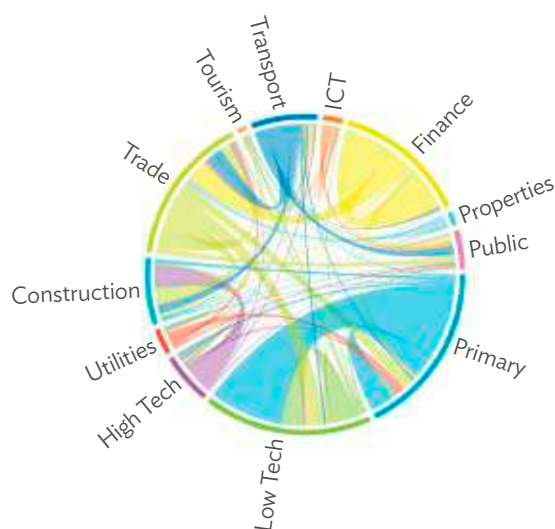
Source: Asian Development Bank Multi-Regional Input-Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 5.2

### Lao People's Democratic Republic

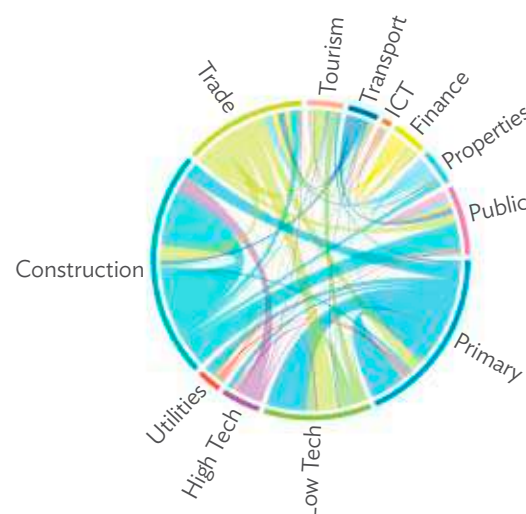
**Figure 5.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

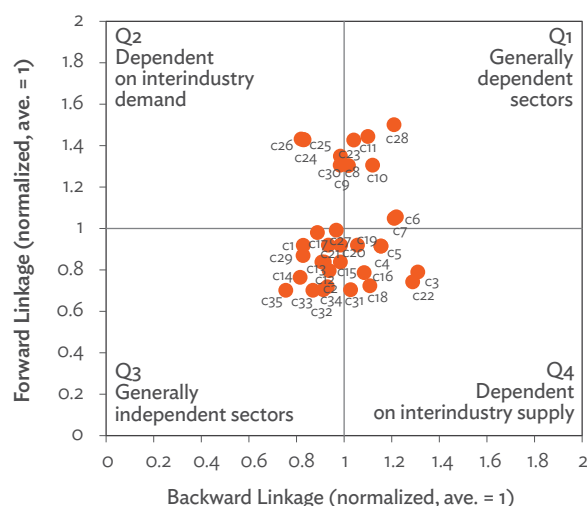
**Figure 5.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

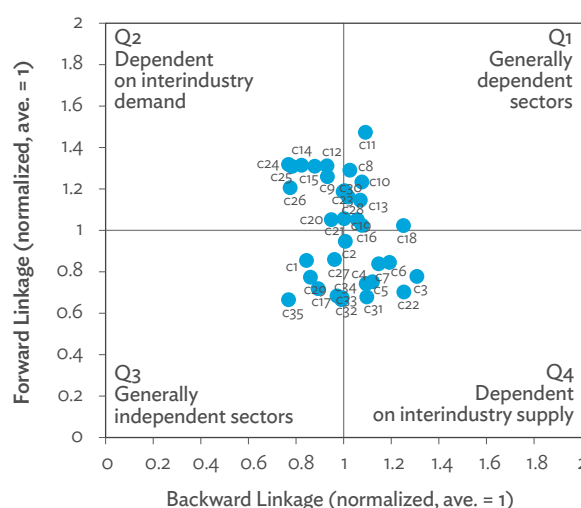
**Figure 5.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

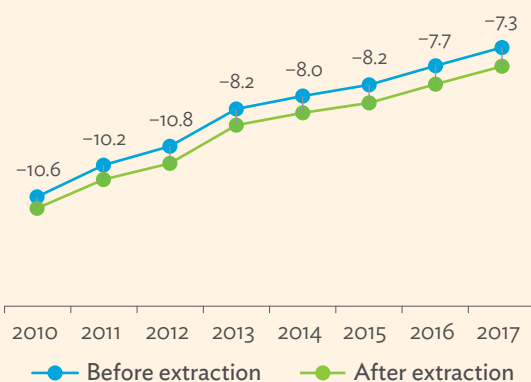
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**Figure 5.2.2b: Backward and Forward Linkages by Industry, 2017**

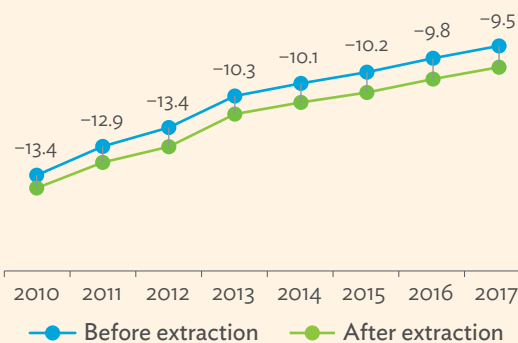


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

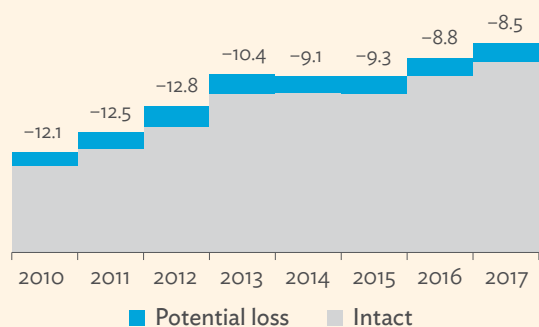
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**Box 5: Hypothetical Extraction of Food, Beverages, and Tobacco Industry in the Lao People's Democratic Republic****Figure 5.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**

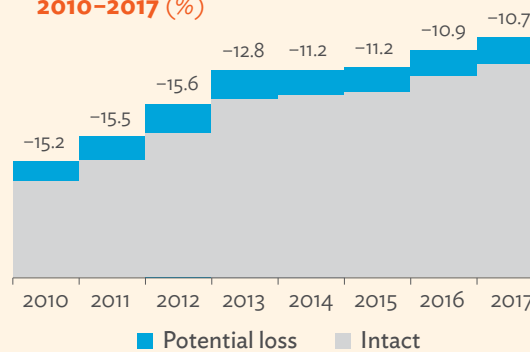
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 5.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**

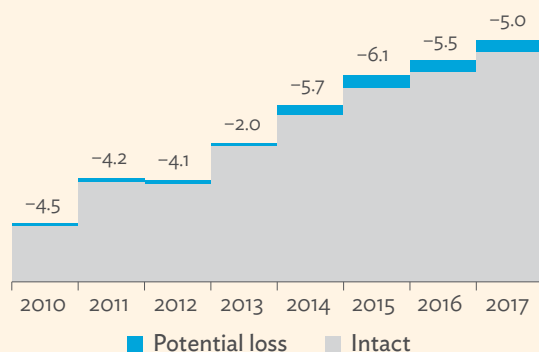
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 5.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**

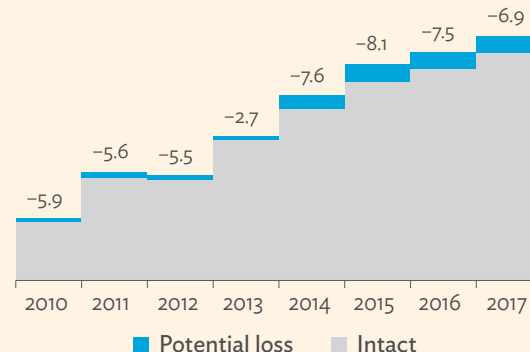
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 5.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 5.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 5.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 5.2.1: Input-Output Backward Linkage**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.828	0.847	0.842	0.846	0.867	0.848	0.839	0.844
Mining and quarrying	0.938	0.940	0.934	0.945	1.024	1.008	1.003	1.007
Food, beverages, and tobacco	1.309	1.342	1.341	1.339	1.352	1.339	1.300	1.306
Textiles and textile products	1.154	1.161	1.161	1.158	1.130	1.130	1.090	1.094
Leather, leather products, and footwear	1.155	1.160	1.160	1.160	1.130	1.126	1.118	1.121
Wood and products of wood and cork	1.219	1.229	1.231	1.236	1.226	1.202	1.190	1.192
Pulp, paper, paper products, printing, and publishing	1.210	1.217	1.220	1.223	1.210	1.170	1.150	1.146
Coke, refined petroleum, and nuclear fuel	1.018	1.022	1.021	1.022	0.973	1.009	1.021	1.026
Chemicals and chemical products	0.983	0.968	0.968	0.966	0.921	0.935	0.932	0.931
Rubber and plastics	1.119	1.103	1.103	1.100	1.023	1.065	1.076	1.076
Other nonmetallic minerals	1.100	1.097	1.090	1.090	1.082	1.094	1.087	1.091
Basic metals and fabricated metal	0.916	0.916	0.912	0.915	0.819	0.919	0.924	0.930
Machinery, nec	0.906	0.852	0.874	0.760	1.002	0.966	1.106	1.069
Electrical and optical equipment	0.815	0.806	0.859	0.857	0.785	0.833	0.829	0.824
Transport equipment	0.985	0.933	0.938	0.933	0.792	0.886	0.891	0.878
Manufacturing, nec; recycling	1.084	1.090	1.091	1.094	1.055	1.079	1.074	1.077
Electricity, gas, and water supply	0.888	0.899	0.892	0.898	0.909	0.902	0.891	0.893
Construction	1.108	1.103	1.100	1.109	1.151	1.202	1.242	1.250
Sale, maintenance, and repair	1.056	1.051	1.047	1.055	1.070	1.055	1.050	1.057
Wholesale trade and commission trade	0.934	0.921	0.932	0.938	0.957	0.948	0.943	0.948
Retail trade	0.985	0.983	0.979	0.986	1.004	0.969	0.996	1.001
Hotels and restaurants	1.288	1.273	1.276	1.273	1.283	1.275	1.259	1.252
Inland transport	1.040	1.019	1.015	1.016	0.975	0.981	0.996	0.997
Water transport	0.829	0.835	0.830	0.834	0.785	0.764	0.761	0.769
Air transport	0.832	0.837	0.832	0.836	0.797	0.777	0.775	0.783
Other supporting and auxiliary transport activities	0.819	0.824	0.819	0.824	0.791	0.770	0.767	0.775
Post and telecommunications	0.967	0.971	0.967	0.972	0.974	0.945	0.958	0.961
Financial intermediation	1.210	1.206	1.200	1.210	1.250	1.016	1.012	1.019
Real estate activities	0.827	0.851	0.845	0.854	0.879	0.855	0.855	0.860
Renting of M&Eq and other business activities	0.984	1.002	1.000	0.998	1.026	1.005	1.000	1.003
Public administration and defense; compulsory social security	1.027	1.038	1.034	1.052	1.095	1.154	1.127	1.096
Education	0.912	0.925	0.920	0.915	0.958	1.019	1.004	0.993
Health and social work	0.869	0.874	0.869	0.879	0.960	1.021	1.006	0.991
Other community, social, and personal services	0.929	0.945	0.940	0.946	0.959	0.971	0.969	0.972
Private households with employed persons	0.755	0.761	0.756	0.760	0.785	0.764	0.761	0.769
	lowest linkage	<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div> highest linkage		



M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 5.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.916	0.948	0.997	0.909	0.917	0.876	0.853	0.848
Mining and quarrying	0.790	0.752	0.794	0.770	0.996	0.899	0.925	0.943
Food, beverages, and tobacco	0.783	0.822	0.856	0.797	0.824	0.789	0.772	0.770
Textiles and textile products	0.912	0.886	0.939	0.869	0.795	0.721	0.724	0.733
Leather, leather products, and footwear	0.912	0.886	0.940	0.875	0.806	0.734	0.735	0.743
Wood and products of wood and cork	1.057	0.990	1.088	1.061	0.912	0.806	0.825	0.839
Pulp, paper, paper products, printing, and publishing	1.049	0.990	1.088	1.061	0.905	0.799	0.818	0.832
Coke, refined petroleum, and nuclear fuel	1.311	1.290	1.350	1.249	1.339	1.312	1.304	1.295
Chemicals and chemical products	1.313	1.290	1.358	1.249	1.308	1.274	1.269	1.263
Rubber and plastics	1.313	1.290	1.355	1.249	1.284	1.246	1.242	1.237
Other nonmetallic minerals	1.456	1.447	1.454	1.462	1.339	1.473	1.481	1.482
Basic metals and fabricated metal	0.833	0.958	0.942	0.987	1.071	1.308	1.317	1.317
Machinery, nec	0.833	0.958	0.943	0.987	0.944	1.138	1.147	1.146
Electrical and optical equipment	0.756	0.958	0.943	0.987	1.069	1.312	1.321	1.320
Transport equipment	0.833	0.958	0.943	0.987	1.064	1.308	1.316	1.314
Manufacturing, nec; recycling	0.780	0.841	0.839	0.833	0.916	1.027	1.024	1.022
Electricity, gas, and water supply	0.979	0.937	1.006	0.987	0.787	0.665	0.690	0.709
Construction	0.715	0.751	0.742	0.810	0.765	0.976	1.003	1.021
Sale, maintenance, and repair	0.917	0.974	1.006	0.959	1.033	1.072	1.060	1.050
Wholesale trade and commission trade	0.917	0.974	1.006	0.959	1.033	1.072	1.061	1.050
Retail trade	0.917	0.974	1.006	0.960	1.037	1.077	1.065	1.055
Hotels and restaurants	0.734	0.712	0.735	0.692	0.732	0.696	0.689	0.692
Inland transport	1.438	1.376	1.649	1.403	1.242	1.183	1.188	1.189
Water transport	1.439	1.377	0.935	1.403	1.360	1.317	1.320	1.323
Air transport	1.440	1.377	0.922	1.403	1.351	1.307	1.315	1.314
Other supporting and auxiliary transport activities	1.443	1.379	0.999	1.403	1.255	1.196	1.206	1.209
Post and telecommunications	0.990	0.936	0.984	0.914	0.956	0.883	0.868	0.853
Financial intermediation	1.514	1.423	1.479	1.385	1.372	1.214	1.190	1.162
Real estate activities	0.865	0.823	0.866	0.796	0.851	0.790	0.775	0.765
Renting of M&Eq and other business activities	1.359	1.342	1.393	1.290	1.305	1.243	1.220	1.193
Public administration and defense; compulsory social security	0.695	0.693	0.694	0.679	0.700	0.668	0.664	0.667
Education	0.695	0.683	0.692	0.667	0.690	0.660	0.658	0.664
Health and social work	0.693	0.661	0.678	0.645	0.671	0.644	0.644	0.654
Other community, social, and personal services	0.710	0.683	0.702	0.666	0.702	0.671	0.667	0.672
Private households with employed persons	0.693	0.661	0.678	0.645	0.671	0.644	0.644	0.654
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.

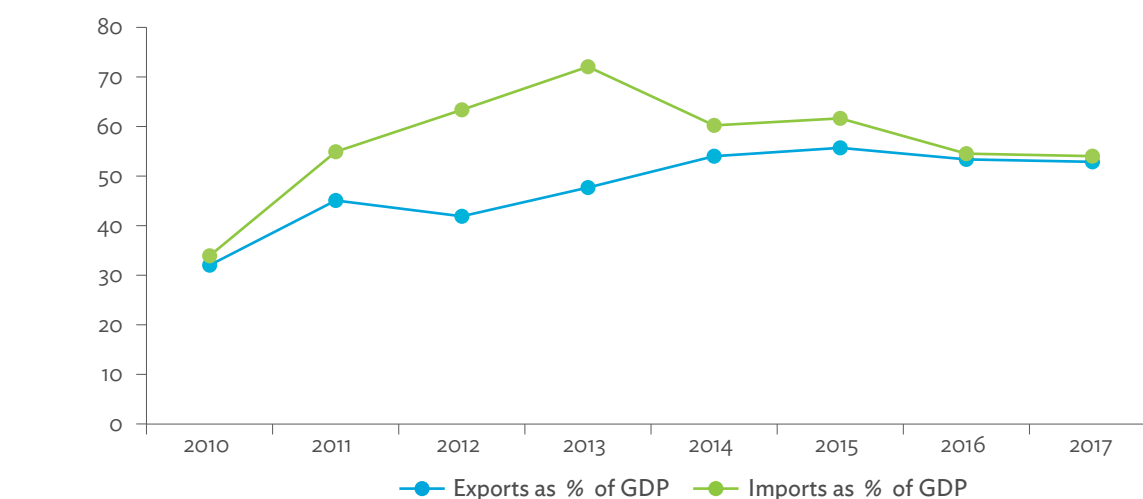


# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 5.3

### Lao People's Democratic Republic

**Figure 5.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

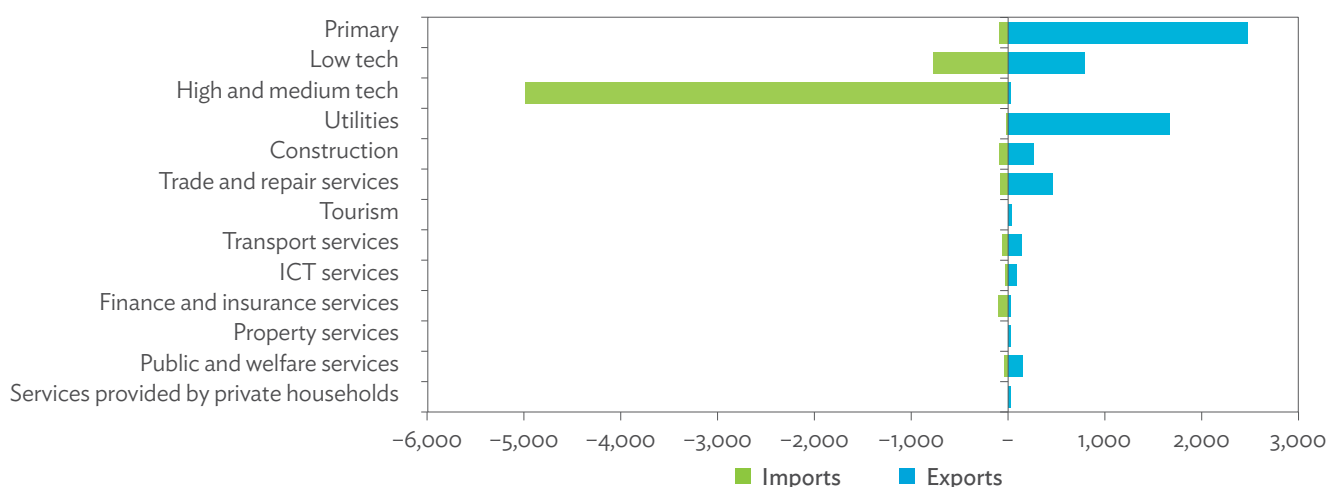


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

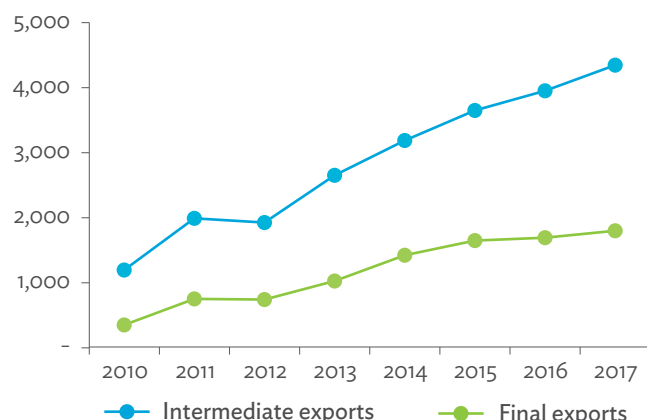


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

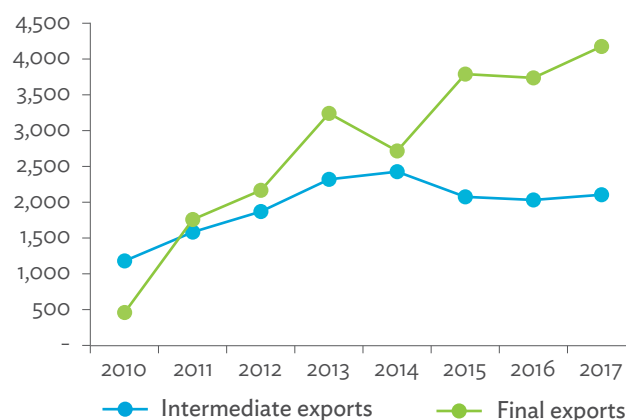


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

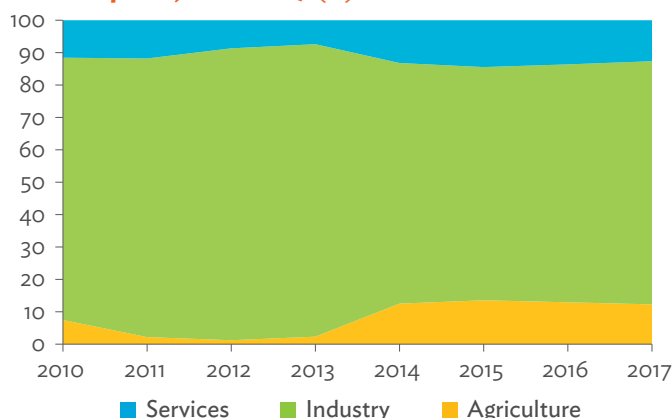


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

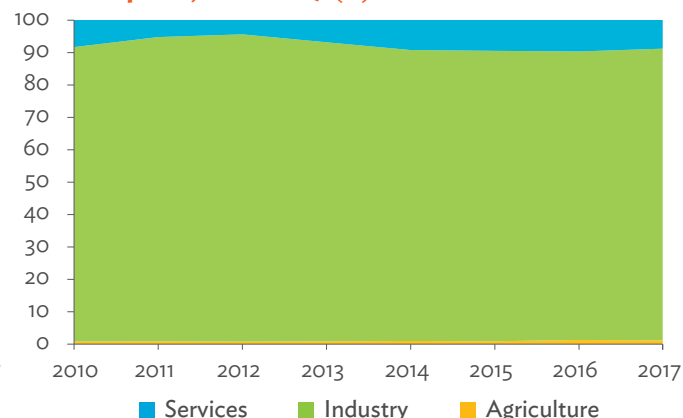
**Figure 5.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

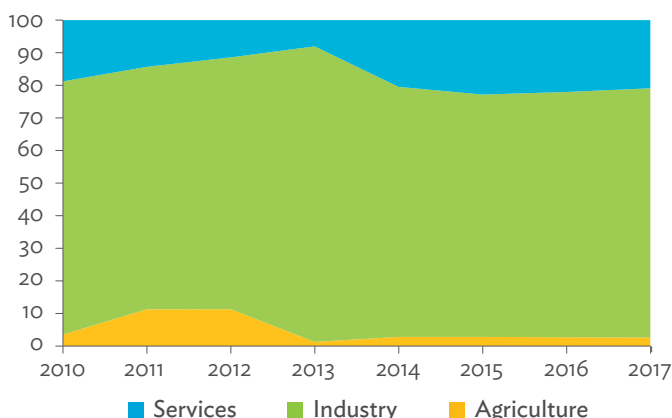
**Figure 5.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

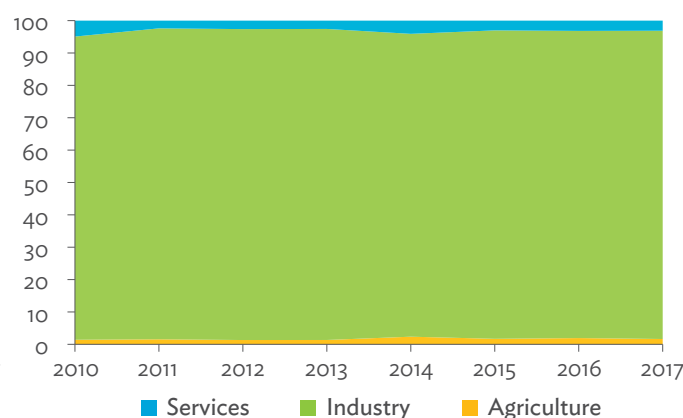
**Figure 5.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

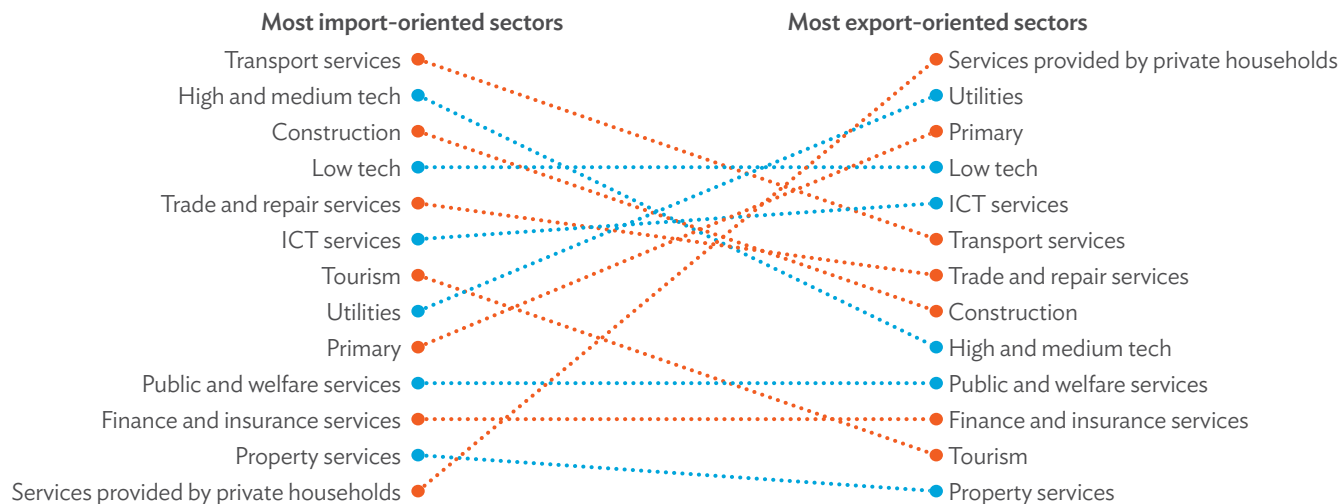
**Figure 5.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

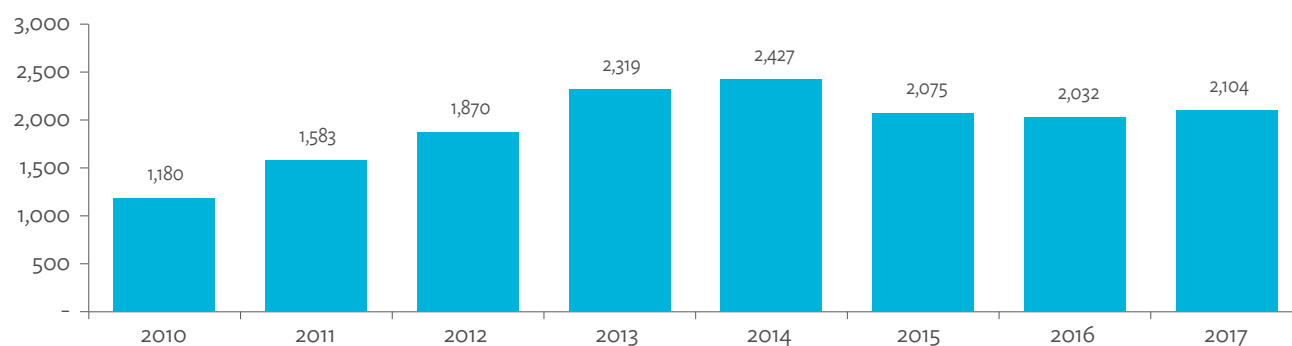
[Click here for figure data](#)

**Figure 5.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**



[Click here for figure data](#)

**Figure 5.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

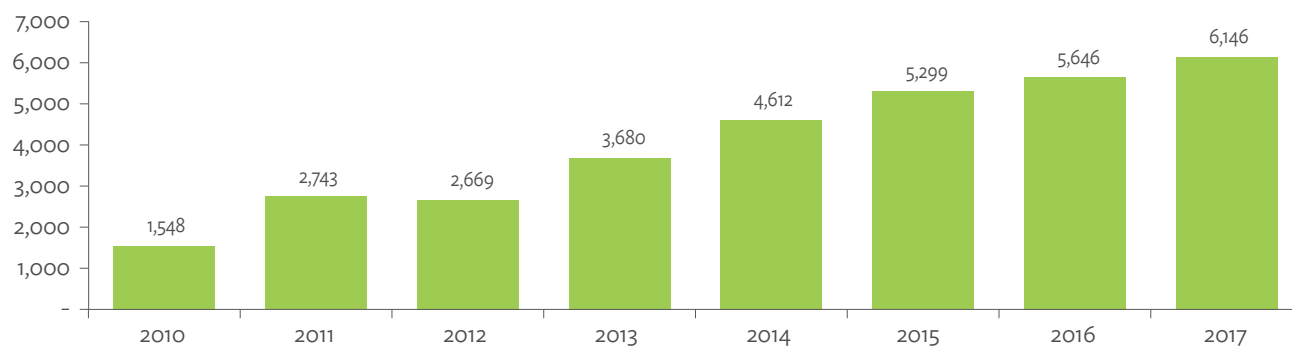


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

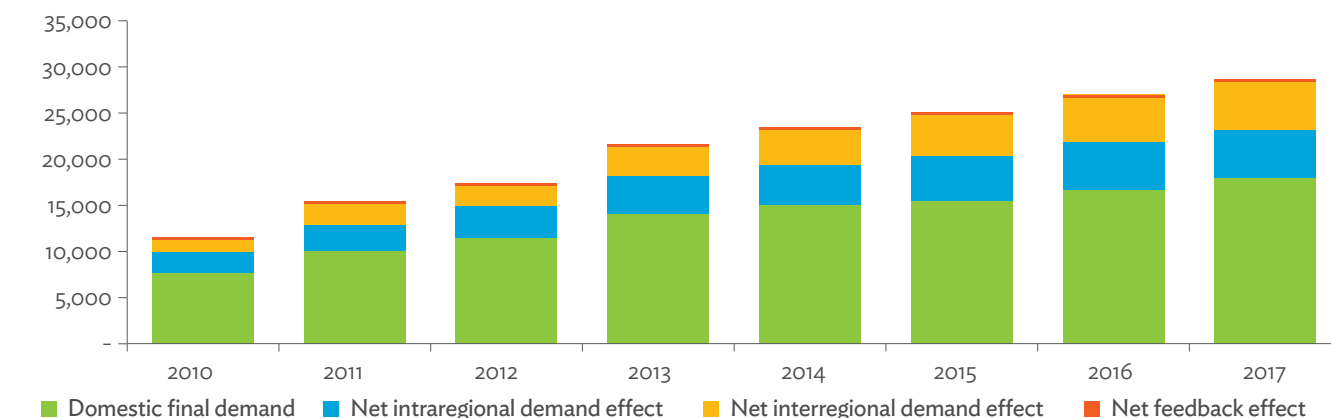


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

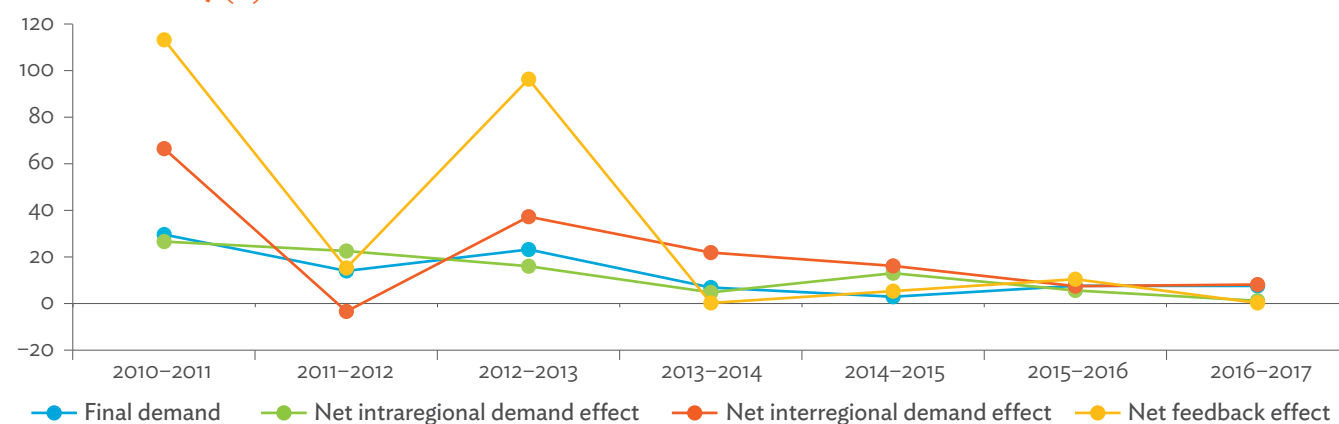


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

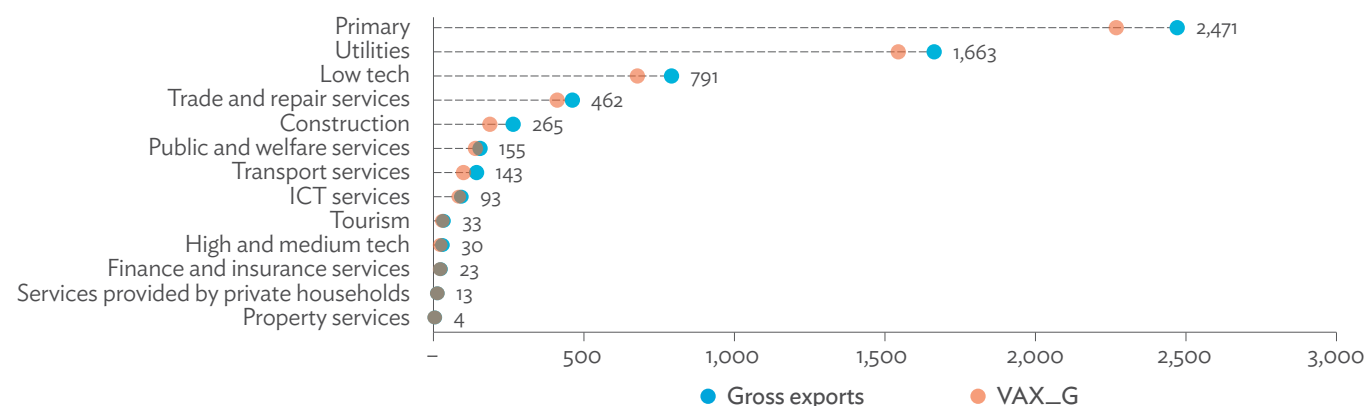
**Figure 5.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

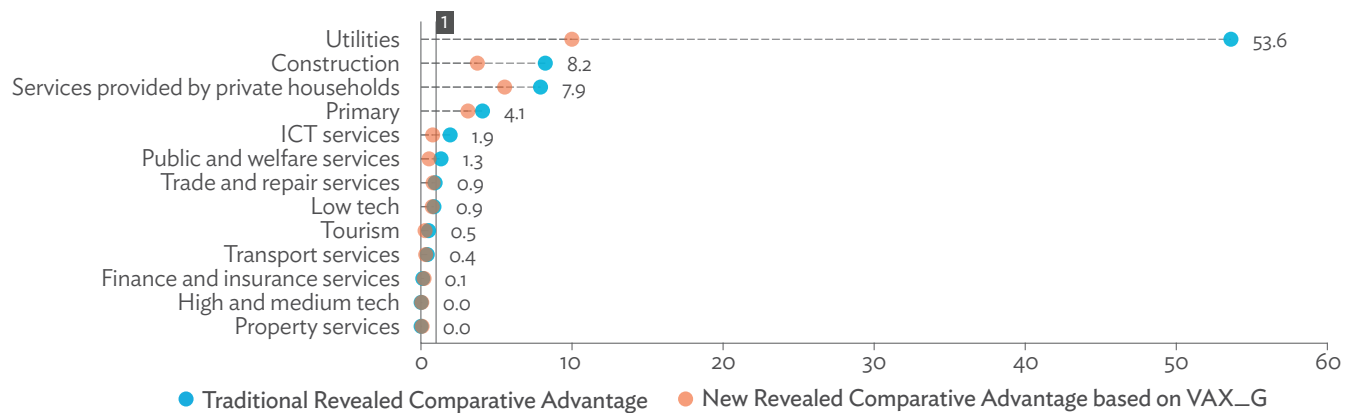


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Table 5.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	2,364	2,768	2,891	4,247	3,798	3,806	4,064	4,309
Low tech	2,324	3,242	3,920	3,921	4,809	4,649	5,158	5,805
High and medium tech	113	107	129	117	134	118	132	152
Business service	2,019	2,558	2,868	3,355	3,584	3,811	4,072	4,320
Personal service	925	1,365	1,638	2,462	2,748	3,129	3,267	3,368
Intraregional effects (M1)								
Primary	565	694	848	948	1,320	1,021	1,080	1,106
Low tech	307	683	850	1,154	775	1,508	1,693	1,796
High and medium tech	189	251	309	285	296	318	337	346
Business service	1,230	1,229	1,517	1,640	1,837	1,948	1,973	1,925
Personal service	4	50	38	106	103	101	89	61

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 5.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	881	1,315	1,349	2,171	2,254	2,265	2,328	2,364
Low tech	327	744	717	736	1,107	1,499	1,783	2,166
High and medium tech	24	40	38	40	58	91	93	93
Business service	285	369	317	342	602	807	806	810
Personal service	1	60	21	63	65	85	91	84
Feedback effects (M3)								
Primary	0.03	0.05	0.06	0.15	0.12	0.11	0.12	0.11
Low tech	0.01	0.02	0.03	0.03	0.05	0.06	0.08	0.09
High and medium tech	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Business service	0.01	0.01	0.01	0.02	0.03	0.04	0.04	0.03
Personal service	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 5.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0972	0.1124	0.1139	0.1127	0.1037	0.1103	0.1027	0.0975
Mining and quarrying	0.2425	0.2355	0.2356	0.2426	0.3038	0.3195	0.3177	0.3087
Food, beverages, and tobacco	0.7353	0.7634	0.7741	0.7607	0.7224	0.7529	0.7071	0.6980
Textiles and textile products	0.5300	0.5252	0.5359	0.5236	0.4397	0.4796	0.4323	0.4218
Leather, leather products, and footwear	0.5308	0.5240	0.5349	0.5254	0.4399	0.4748	0.4691	0.4569
Wood and products of wood and cork	0.6159	0.6145	0.6288	0.6251	0.5618	0.5732	0.5629	0.5494
Pulp, paper, paper products, printing, and publishing	0.6038	0.5992	0.6150	0.6088	0.5408	0.5315	0.5100	0.4900
Coke, refined petroleum, and nuclear fuel	0.3492	0.3429	0.3515	0.3446	0.2393	0.3204	0.3405	0.3338
Chemicals and chemical products	0.3032	0.2719	0.2803	0.2700	0.1736	0.2243	0.2244	0.2108
Rubber and plastics	0.4834	0.4490	0.4597	0.4470	0.3027	0.3940	0.4129	0.3986
Other nonmetallic minerals	0.4572	0.4415	0.4430	0.4335	0.3778	0.4318	0.4274	0.4179
Basic metals and fabricated metal	0.2143	0.2034	0.2069	0.2032	0.0438	0.2037	0.2136	0.2092
Machinery, nec	0.2014	0.1197	0.1566	0.0000	0.2758	0.2644	0.4528	0.3902
Electrical and optical equipment	0.0802	0.0587	0.1367	0.1276	0.0002	0.0901	0.0887	0.0709
Transport equipment	0.3049	0.2263	0.2406	0.2267	0.0082	0.1596	0.1709	0.1420
Manufacturing, nec; recycling	0.4367	0.4325	0.4438	0.4392	0.3433	0.4128	0.4101	0.4000
Electricity, gas, and water supply	0.1769	0.1810	0.1808	0.1812	0.1572	0.1814	0.1704	0.1607
Construction	0.4690	0.4489	0.4558	0.4591	0.4664	0.5734	0.6308	0.6248
Sale, maintenance, and repair	0.3991	0.3808	0.3856	0.3872	0.3634	0.3809	0.3791	0.3742
Wholesale trade and commission trade	0.2382	0.2100	0.2331	0.2343	0.2190	0.2417	0.2387	0.2327
Retail trade	0.3056	0.2921	0.2961	0.2974	0.2790	0.2686	0.3080	0.3020
Hotels and restaurants	0.7073	0.6727	0.6881	0.6740	0.6343	0.6693	0.6538	0.6277
Inland transport	0.3783	0.3383	0.3437	0.3363	0.2425	0.2842	0.3085	0.2969
Water transport	0.0991	0.0968	0.0981	0.0972	0.0000	0.0000	0.0000	0.0000
Air transport	0.1021	0.0998	0.1011	0.1002	0.0146	0.0170	0.0178	0.0176
Other supporting and auxiliary transport activities	0.0856	0.0829	0.0840	0.0831	0.0071	0.0082	0.0079	0.0078
Post and telecommunications	0.2817	0.2762	0.2803	0.2781	0.2408	0.2372	0.2582	0.2495
Financial intermediation	0.6030	0.5840	0.5882	0.5909	0.5918	0.3296	0.3296	0.3246
Real estate activities	0.0964	0.1187	0.1176	0.1231	0.1197	0.1200	0.1231	0.1184
Renting of M&Eq and other business activities	0.3043	0.3164	0.3238	0.3129	0.3070	0.3153	0.3131	0.3039
Public administration and defense; compulsory social security	0.3608	0.3636	0.3688	0.3832	0.3951	0.5113	0.4804	0.4254
Education	0.2092	0.2160	0.2180	0.2038	0.2204	0.3337	0.3183	0.2912
Health and social work	0.1512	0.1481	0.1505	0.1555	0.2230	0.3372	0.3210	0.2882
Other community, social, and personal services	0.2318	0.2422	0.2441	0.2444	0.2219	0.2710	0.2722	0.2636
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 5.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.1061	0.1254	0.1252	0.1279	0.1431	0.1050	0.0930	0.0888
Mining and quarrying	0.4597	0.4676	0.4633	0.4952	0.3639	0.2973	0.2826	0.2737
Food, beverages, and tobacco	0.3191	0.3438	0.3438	0.3459	0.4220	0.3374	0.4025	0.4013
Textiles and textile products	0.4566	0.4664	0.4667	0.4764	0.5703	0.4439	0.4993	0.4892
Leather, leather products, and footwear	0.4523	0.4612	0.4616	0.4470	0.5583	0.4378	0.4153	0.4059
Wood and products of wood and cork	0.2956	0.3071	0.3137	0.3173	0.3771	0.2928	0.2742	0.2682
Pulp, paper, paper products, printing, and publishing	0.3416	0.3012	0.3052	0.3095	0.3695	0.3140	0.3062	0.2980
Coke, refined petroleum, and nuclear fuel	0.7577	0.7733	0.7593	0.7779	0.9562	0.7957	0.7337	0.7219
Chemicals and chemical products	0.6250	0.5798	0.5784	0.5741	0.6774	0.5268	0.4691	0.4485
Rubber and plastics	1.0217	0.9820	0.9734	0.9741	1.1467	0.9370	0.8500	0.8346
Other nonmetallic minerals	0.5661	0.5647	0.5635	0.5638	0.6187	0.4973	0.4621	0.4763
Basic metals and fabricated metal	1.2349	1.2290	1.2405	1.2450	1.5148	1.2011	1.1669	1.1497
Machinery, nec	1.0491	0.8675	0.8863	1.1986	1.1239	1.0940	0.7869	0.8161
Electrical and optical equipment	1.8363	0.8775	0.8175	0.7814	0.9577	0.6359	0.5208	0.4226
Transport equipment	1.7324	1.3746	1.4303	1.3783	1.6624	1.1715	0.9828	0.8440
Manufacturing, nec; recycling	0.4569	0.4643	0.4705	0.4712	0.6536	0.4664	0.4442	0.4349
Electricity, gas, and water supply	0.2481	0.2641	0.2611	0.2705	0.3009	0.2247	0.2133	0.2017
Construction	1.0484	1.0490	1.0465	1.1096	1.0118	0.9349	0.8368	0.8320
Sale, maintenance, and repair	0.4500	0.4597	0.4378	0.4696	0.4810	0.4571	0.4445	0.4401
Wholesale trade and commission trade	0.2532	0.2965	0.2491	0.2680	0.2631	0.2245	0.2085	0.2061
Retail trade	0.3426	0.3497	0.3329	0.3602	0.3618	0.3778	0.2921	0.2889
Hotels and restaurants	0.3824	0.3748	0.3709	0.3882	0.4355	0.3428	0.3245	0.3153
Inland transport	0.6609	0.6190	0.6158	0.6142	0.6854	0.5434	0.4715	0.4566
Water transport	2.0254	2.1189	2.1189	2.1499	2.3256	2.3682	2.3733	2.3638
Air transport	2.0465	2.1496	2.1454	2.1615	2.3357	2.3744	2.3731	2.3660
Other supporting and auxiliary transport activities	1.8142	1.8675	1.8712	1.8786	2.0124	2.0389	2.0414	2.0305
Post and telecommunications	0.2429	0.2649	0.2598	0.2666	0.3275	0.2596	0.2466	0.2404
Financial intermediation	0.1743	0.2217	0.2084	0.2158	0.2040	0.0998	0.0957	0.0952
Real estate activities	0.0739	0.0933	0.0863	0.1095	0.0992	0.0847	0.0780	0.0743
Renting of M&Eq and other business activities	0.2632	0.2363	0.2136	0.2503	0.2559	0.1983	0.1918	0.1917
Public administration and defense; compulsory social security	0.3503	0.3372	0.3221	0.3586	0.3057	0.3758	0.3180	0.2873
Education	0.1585	0.1637	0.1540	0.2088	0.2385	0.1958	0.1745	0.1641
Health and social work	0.5939	0.5698	0.5710	0.6081	0.4765	0.4754	0.4174	0.3755
Other community, social, and personal services	0.2733	0.2950	0.2886	0.3054	0.3535	0.2811	0.2601	0.2731
Private households with employed persons	0.0000	0.0000	0.0000	0.0038	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 5.3.5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Textiles and textile products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other nonmetallic minerals	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Basic metals and fabricated metal	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000
Machinery, nec	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Transport equipment	0.0000	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000	0.0000
Manufacturing, nec; recycling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity, gas, and water supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Construction	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
Air transport	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 5.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	909	765	1,546	1,296	1,585	1,329	2,677	2,209	2,306	2,037	2,376	2,161	2,414	2,210	2,471	2,268
Low tech	243	210	363	312	364	314	284	244	671	556	806	698	794	679	791	678
High and medium tech	15	7	10	7	8	6	7	5	23	15	28	21	29	22	30	22
Utilities	175	158	463	418	448	406	400	361	723	644	942	867	1,245	1,151	1,663	1,544
Construction	3	2	19	12	11	7	34	20	176	112	242	162	251	177	265	187
Trade and repair services	116	101	161	139	136	119	128	111	366	316	458	398	456	406	462	411
Tourism	1	1	0	0	0	0	0	0	27	23	36	31	35	30	33	29
Transport services	48	29	63	38	51	36	43	26	101	63	128	86	135	94	143	100
ICT services	22	20	33	30	28	25	21	19	71	62	90	81	92	83	93	84
Finance and insurance services	3	3	5	5	5	4	4	4	17	15	21	20	22	21	23	22
Property services	1	1	0	0	0	0	0	0	3	3	4	4	4	4	4	4
Public and welfare services	13	11	81	71	32	28	83	72	118	104	155	136	155	138	155	140
Services provided by private households	-	-	-	-	-	-	0	0	10	10	11	11	13	13	13	13

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 5.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	5.399	3.609	4.638	3.011	4.882	3.213	6.309	4.006	4.612	3.554	4.630	3.395	4.525	3.337	4.074	3.112
Low tech	1.087	1.024	0.933	0.909	0.968	0.929	0.530	0.539	0.978	0.844	1.016	0.874	0.942	0.812	0.859	0.746
High and medium tech	0.020	0.048	0.008	0.046	0.007	0.044	0.004	0.036	0.011	0.041	0.012	0.056	0.011	0.054	0.011	0.051
Utilities	25.176	5.335	37.754	7.572	36.869	7.852	23.466	5.693	33.388	6.123	36.603	6.514	36.455	8.174	53.619	9.991
Construction	0.429	0.149	1.788	0.722	1.046	0.429	1.692	1.101	7.407	2.012	8.573	3.775	7.258	3.663	8.230	3.733
Trade and repair services	0.960	0.908	0.757	0.719	0.640	0.639	0.445	0.522	1.009	0.828	1.078	0.960	1.002	0.881	0.937	0.804
Tourism	0.041	0.027	0.004	0.074	0.003	0.062	0.000	0.045	0.549	0.312	0.625	0.342	0.500	0.291	0.504	0.272
Transport services	0.518	0.411	0.411	0.344	0.336	0.336	0.210	0.206	0.393	0.286	0.429	0.321	0.428	0.324	0.417	0.314
ICT services	2.120	1.014	1.907	0.908	1.531	0.783	0.826	0.442	2.204	1.036	2.425	1.124	2.213	0.982	1.931	0.776
Finance and insurance services	0.071	0.498	0.065	0.201	0.058	0.184	0.038	0.158	0.118	0.176	0.128	0.240	0.121	0.223	0.122	0.205
Property services	0.010	0.033	0.001	0.093	0.001	0.085	0.000	0.065	0.010	0.096	0.011	0.097	0.010	0.085	0.010	0.073
Public and welfare services	0.459	0.186	1.693	0.693	0.670	0.276	1.170	0.515	1.346	0.576	1.473	0.571	1.294	0.531	1.327	0.533
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.744	5.189	6.778	5.005	8.188	5.880	7.914	5.541

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

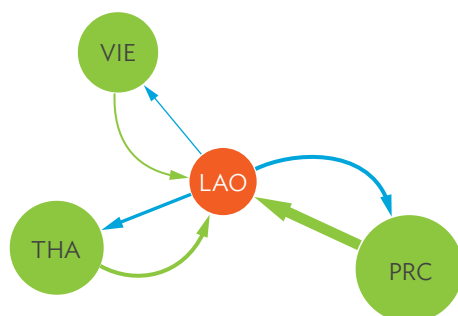
Source: Asian Development Bank Multi-Regional Input-Output Database.

# 5.4

## GLOBAL VALUE CHAIN INDICATORS

### Lao People's Democratic Republic

**Figure 5.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

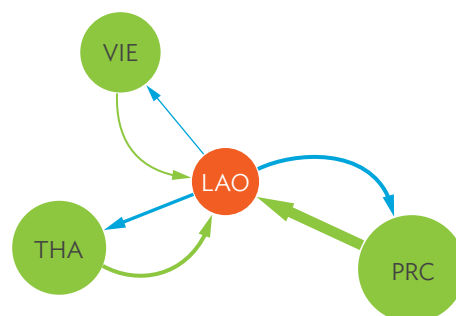
LAO = Lao People's Democratic Republic, PRC = People's Republic of China, THA = Thailand, VIE = Viet Nam.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

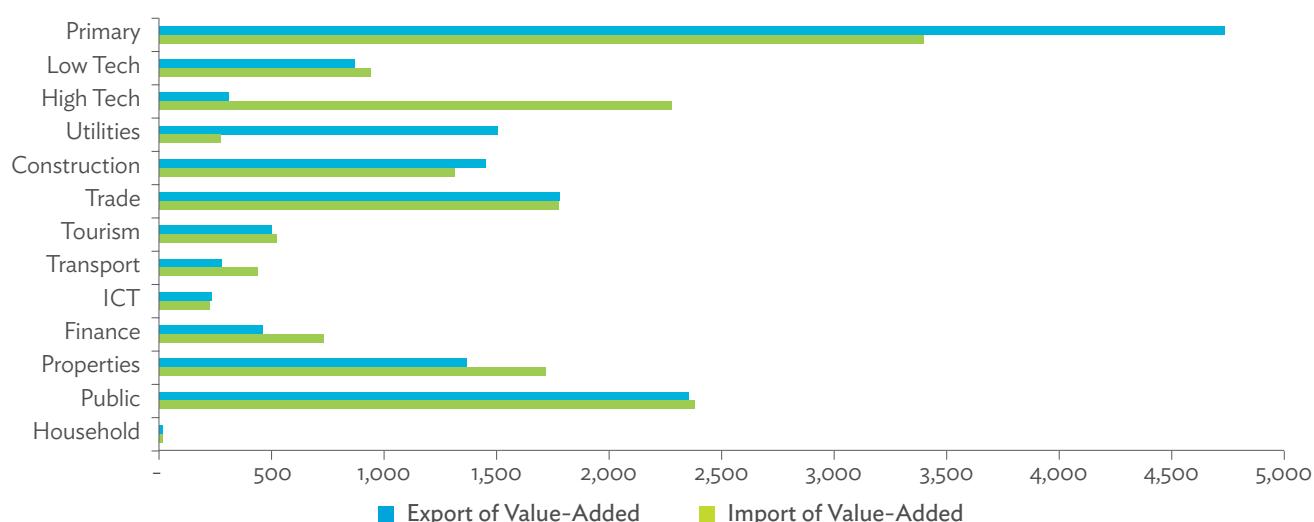
LAO = Lao People's Democratic Republic, PRC = People's Republic of China, THA = Thailand, VIE = Viet Nam.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

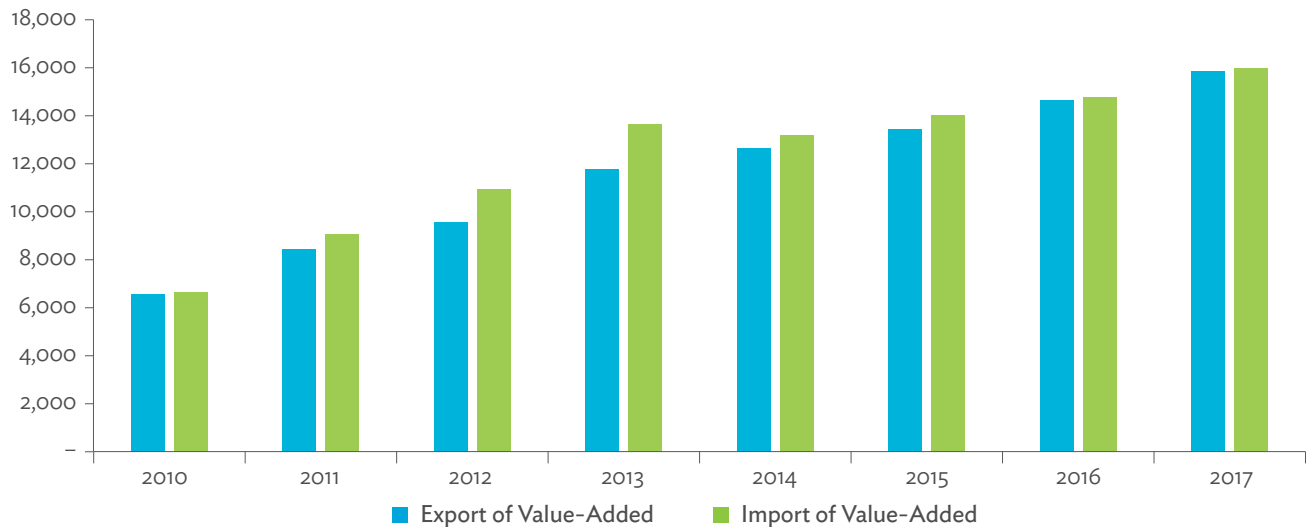
**Figure 5.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

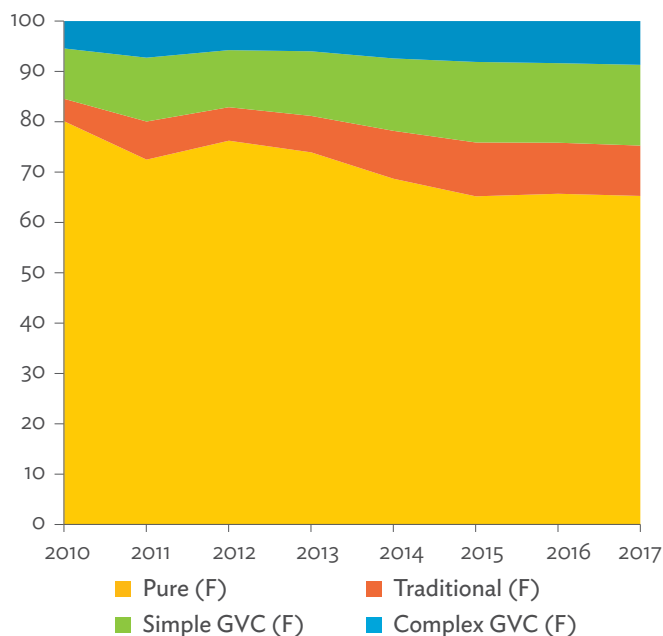
[Click here for figure data](#)

**Figure 5.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

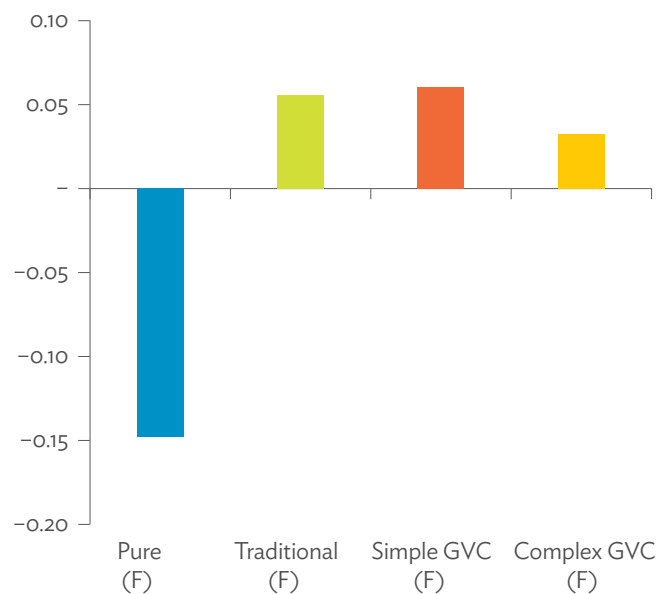
[Click here for figure data](#)

**Figure 5.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

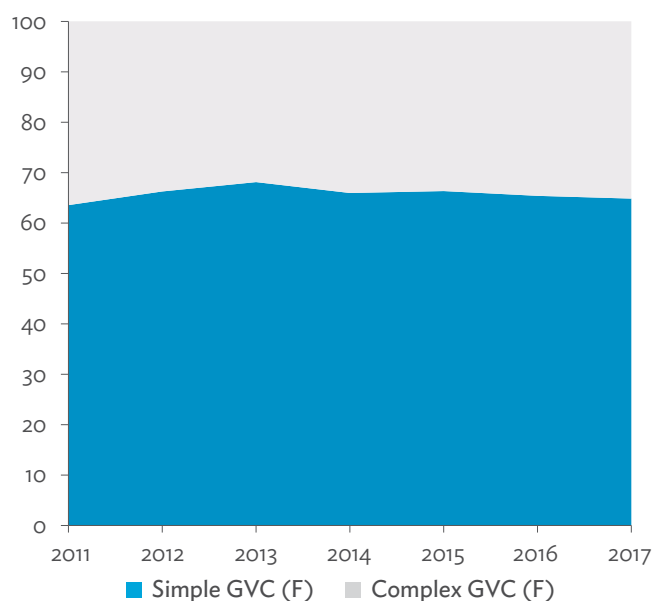
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

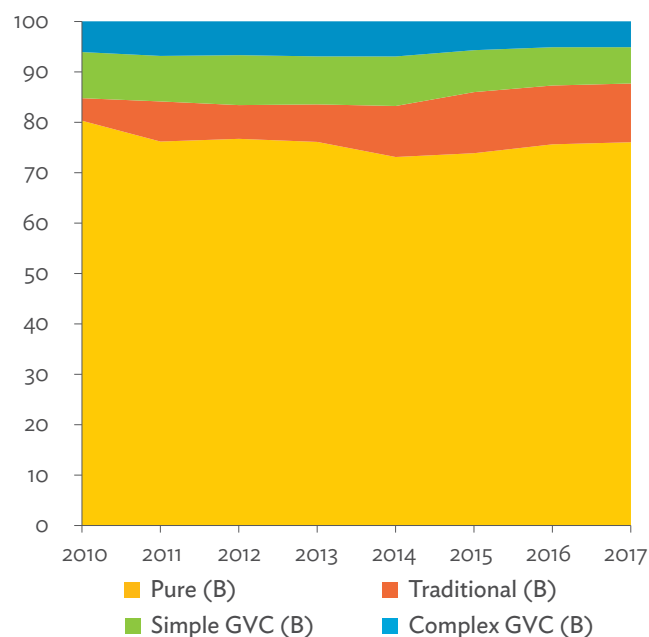


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

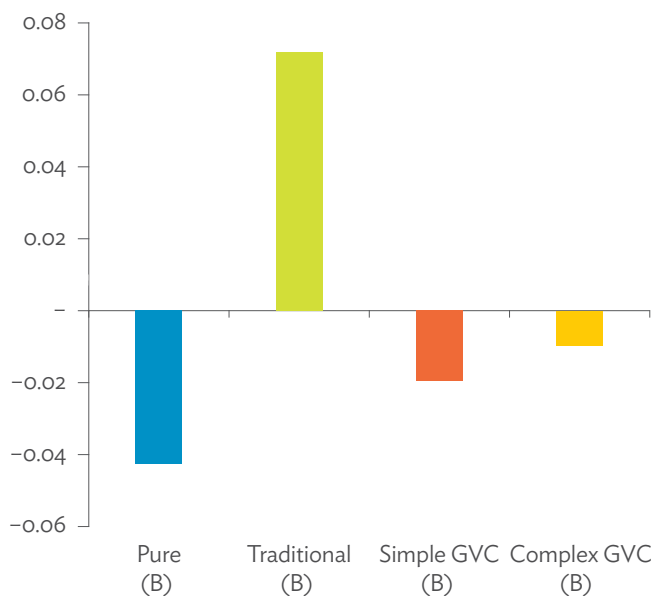


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



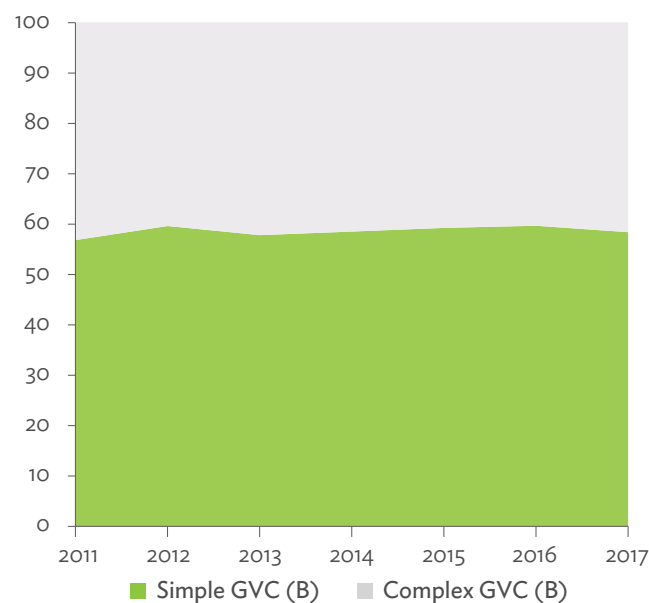
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

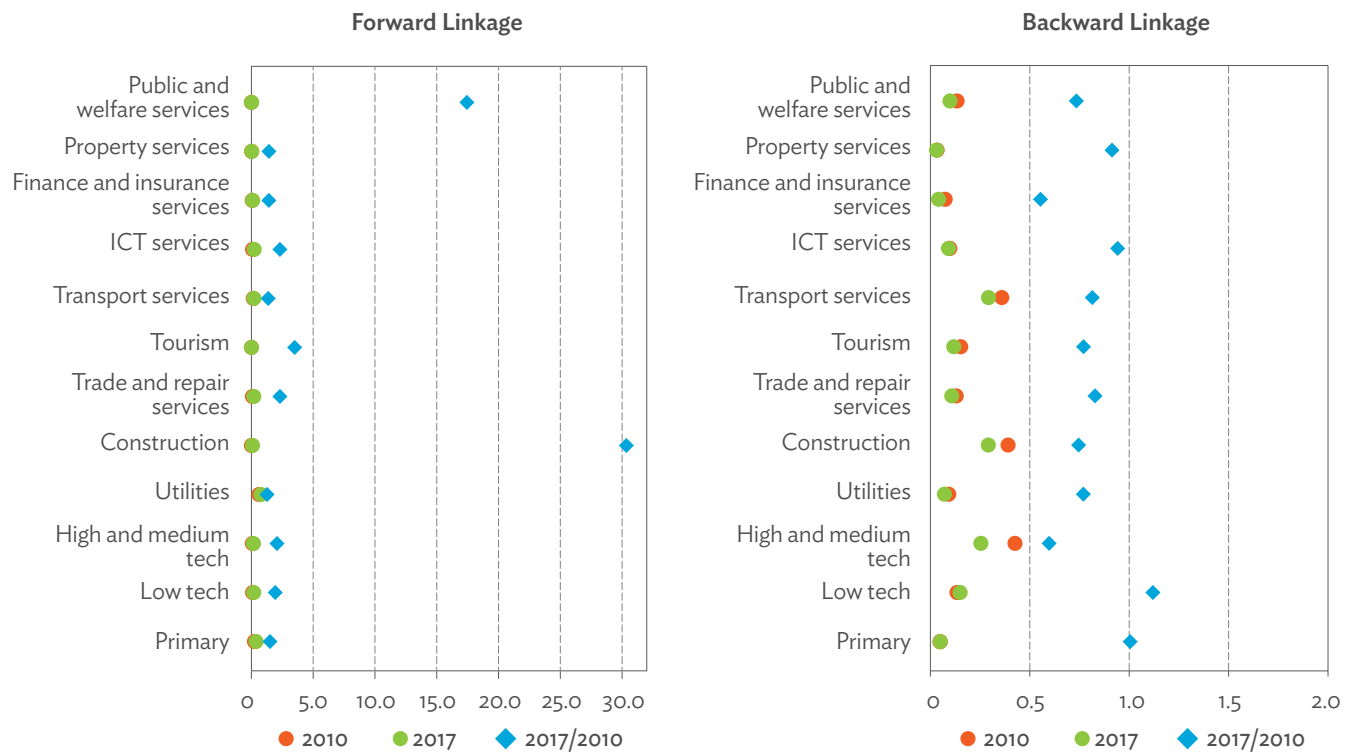


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

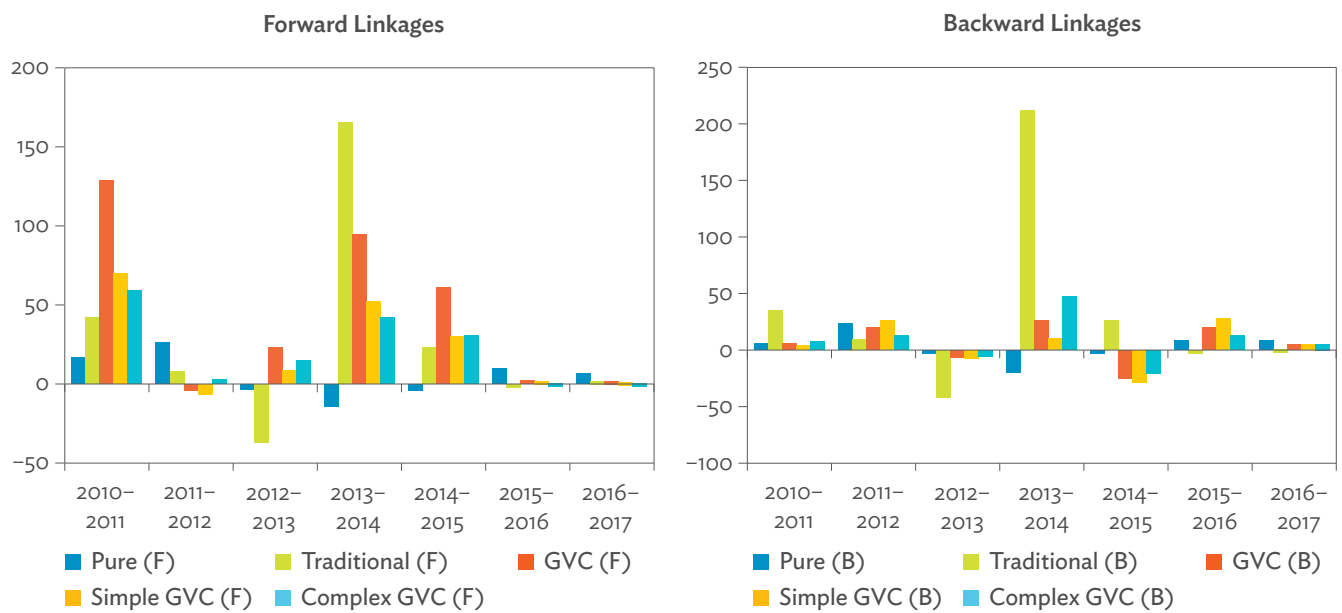
[Click here for figure data](#)

**Figure 5.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**



[Click here for figure data](#)

**Figure 5.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



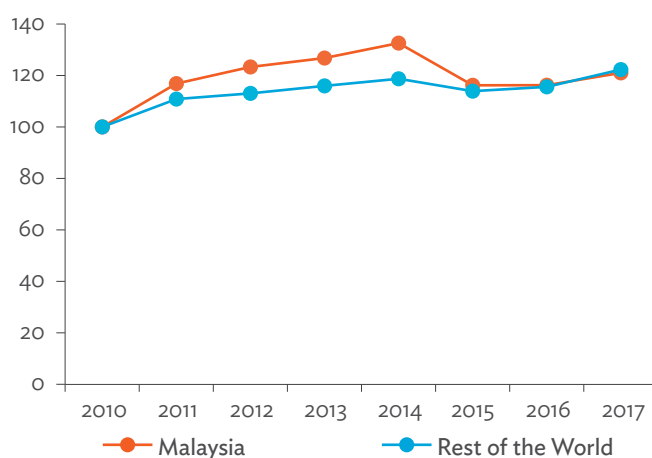
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# 6.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Malaysia

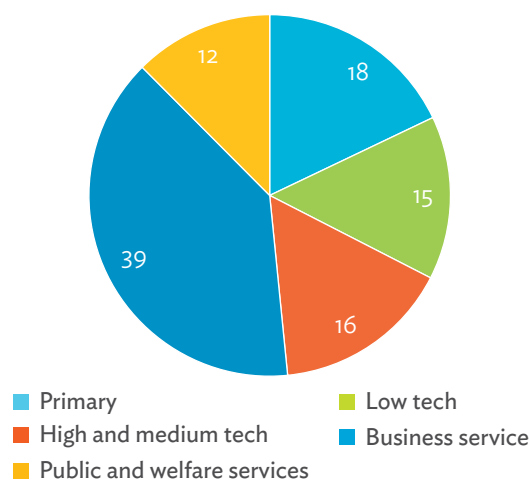
**Figure 6.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

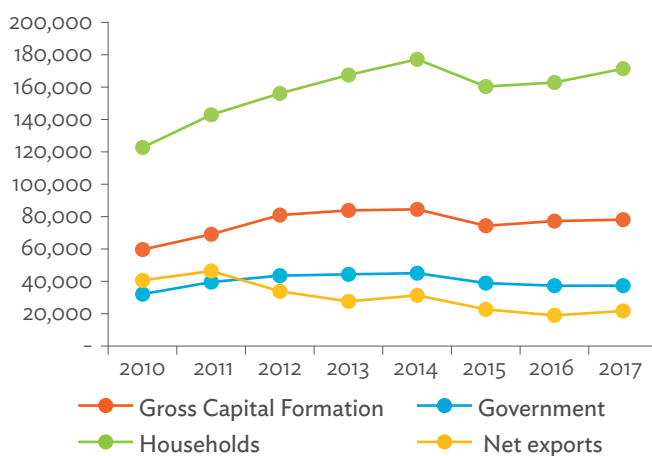
**Figure 6.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

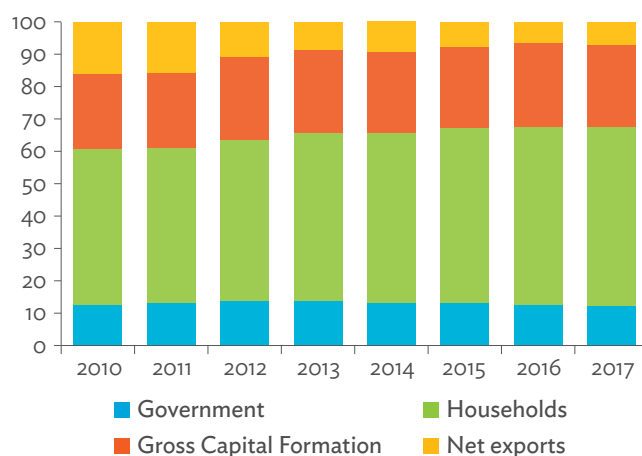


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

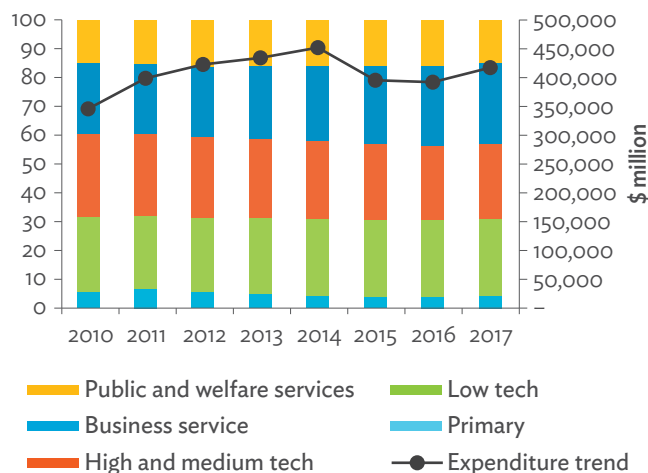
**Figure 6.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

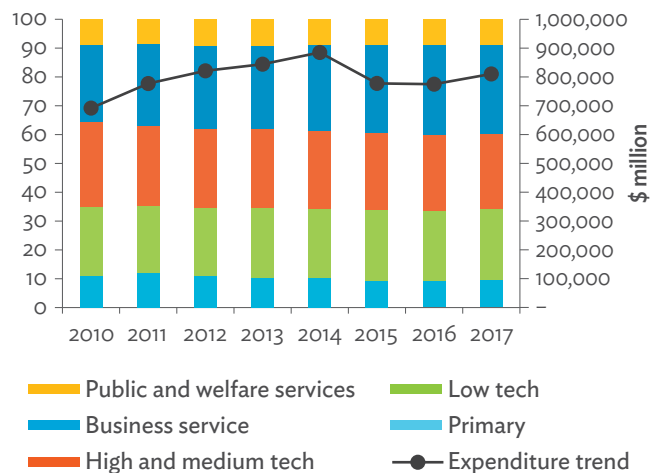


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

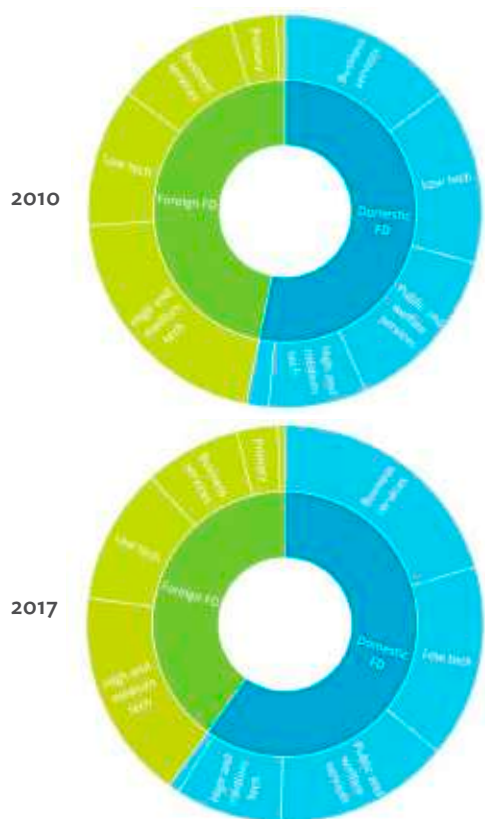


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

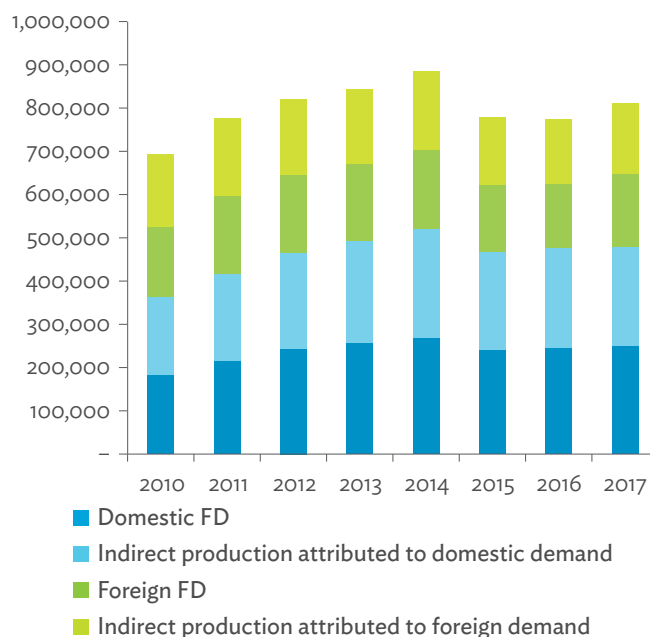


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

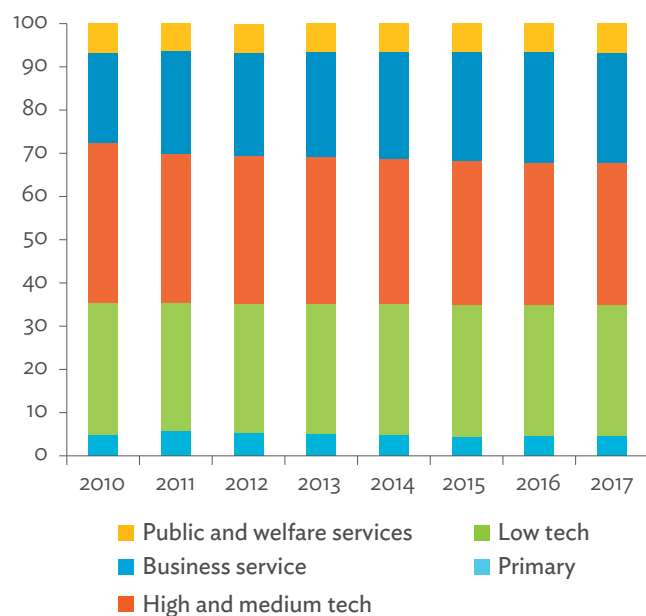


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

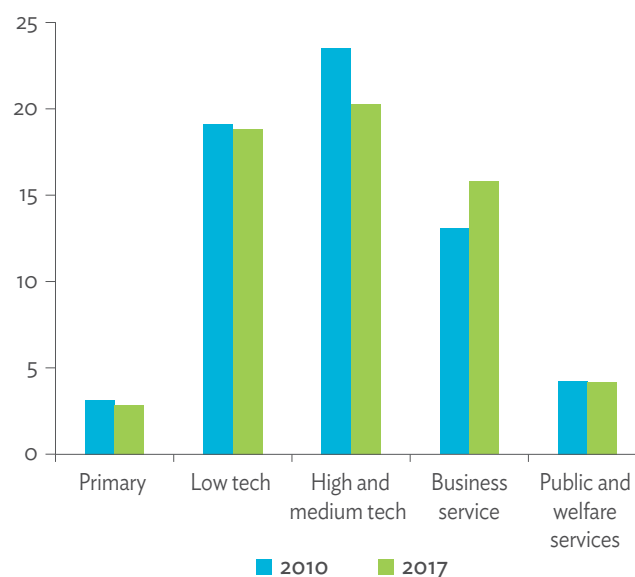
**Figure 6.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

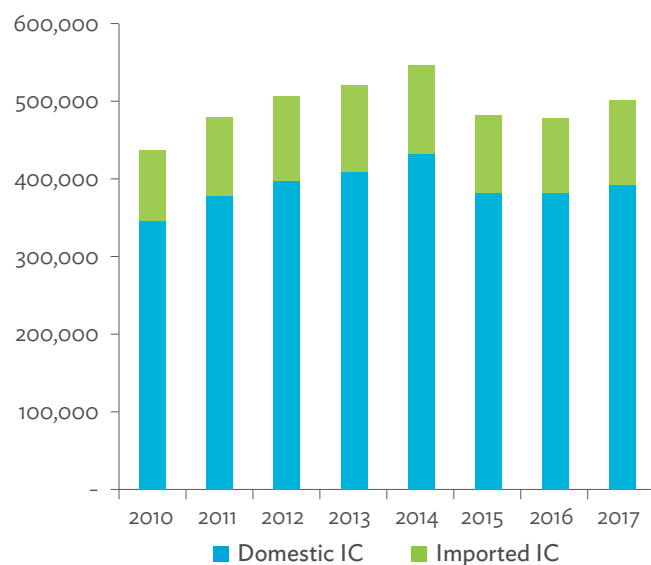
**Figure 6.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

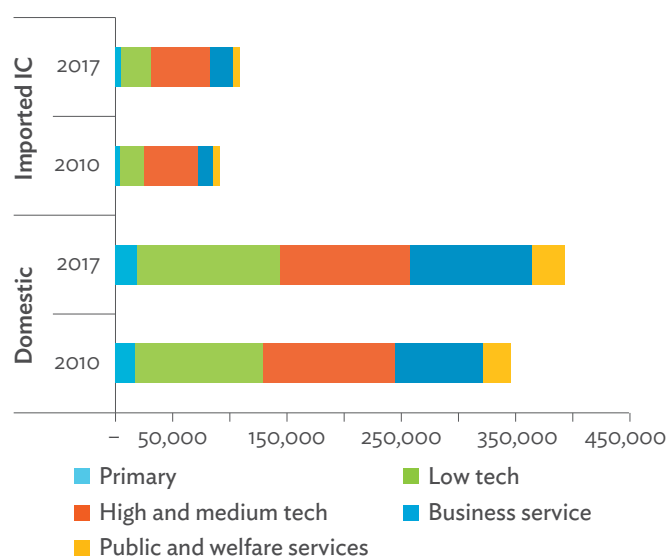


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**



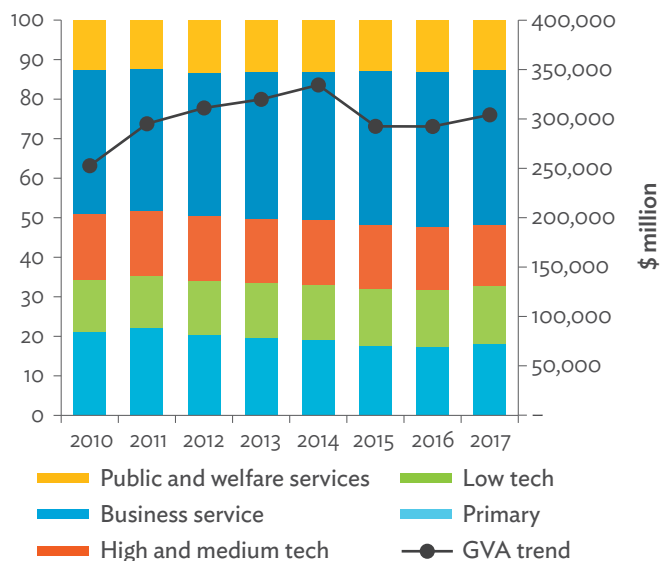
\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 6.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

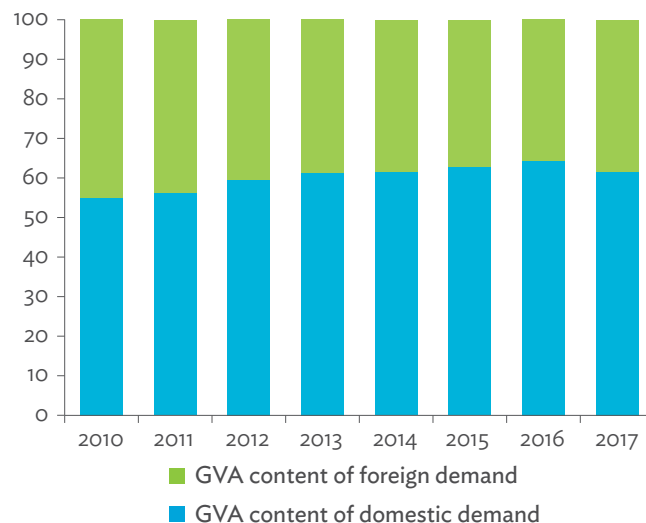


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

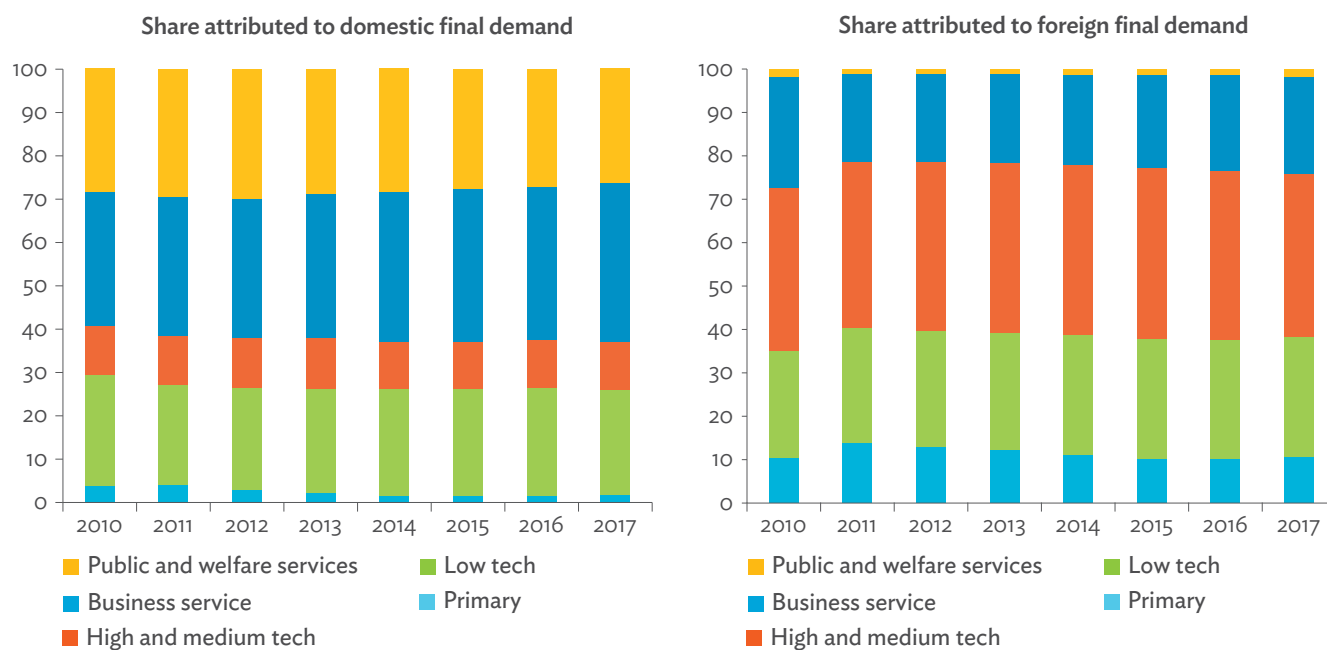


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 6.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.856	0.864	0.858	0.858	0.860	0.860	0.863	0.851
Mining and quarrying	0.923	0.928	0.928	0.929	0.930	0.929	0.931	0.925
Food, beverages, and tobacco	0.732	0.763	0.732	0.731	0.733	0.731	0.738	0.720
Textiles and textile products	0.689	0.710	0.708	0.709	0.712	0.712	0.717	0.694
Leather, leather products, and footwear	0.728	0.754	0.750	0.750	0.754	0.753	0.758	0.738
Wood and products of wood and cork	0.727	0.744	0.715	0.715	0.717	0.717	0.723	0.700
Pulp, paper, paper products, printing, and publishing	0.674	0.695	0.692	0.694	0.700	0.700	0.707	0.681
Coke, refined petroleum, and nuclear fuel	0.794	0.786	0.787	0.784	0.784	0.783	0.787	0.762
Chemicals and chemical products	0.658	0.657	0.656	0.658	0.664	0.663	0.670	0.641
Rubber and plastics	0.644	0.632	0.626	0.632	0.641	0.640	0.649	0.620
Other nonmetallic minerals	0.688	0.699	0.695	0.693	0.694	0.690	0.696	0.668
Basic metals and fabricated metal	0.544	0.553	0.553	0.553	0.558	0.559	0.568	0.541
Machinery, nec	0.535	0.601	0.601	0.602	0.607	0.608	0.615	0.591
Electrical and optical equipment	0.549	0.553	0.555	0.557	0.562	0.563	0.571	0.550
Transport equipment	0.460	0.462	0.460	0.461	0.467	0.465	0.472	0.442
Manufacturing, nec; recycling	0.735	0.750	0.742	0.743	0.746	0.744	0.750	0.730
Electricity, gas, and water supply	0.785	0.815	0.816	0.818	0.821	0.819	0.822	0.805
Construction	0.685	0.687	0.682	0.680	0.682	0.682	0.688	0.667
Sale, maintenance, and repair	0.811	0.776	0.775	0.777	0.780	0.778	0.781	0.756
Wholesale trade and commission trade	0.865	0.807	0.805	0.806	0.809	0.809	0.813	0.798
Retail trade	0.856	0.854	0.852	0.853	0.856	0.855	0.858	0.846
Hotels and restaurants	0.806	0.833	0.823	0.824	0.826	0.825	0.830	0.819
Inland transport	0.764	0.771	0.773	0.774	0.778	0.779	0.784	0.766
Water transport	0.776	0.769	0.770	0.770	0.773	0.774	0.779	0.762
Air transport	0.674	0.688	0.689	0.691	0.695	0.696	0.702	0.675
Other supporting and auxiliary transport activities	0.766	0.782	0.783	0.785	0.789	0.789	0.794	0.777
Post and telecommunications	0.830	0.782	0.784	0.787	0.792	0.791	0.794	0.779
Financial intermediation	0.895	0.886	0.886	0.887	0.889	0.887	0.888	0.879
Real estate activities	0.915	0.925	0.925	0.926	0.927	0.926	0.927	0.922
Renting of M&Eq and other business activities	0.837	0.861	0.861	0.863	0.866	0.866	0.868	0.857
Public administration and defense; compulsory social security	0.819	0.833	0.834	0.836	0.839	0.838	0.841	0.828
Education	0.907	0.925	0.926	0.926	0.928	0.927	0.929	0.922
Health and social work	0.731	0.751	0.752	0.754	0.758	0.759	0.764	0.745
Other community, social, and personal services	0.802	0.802	0.803	0.805	0.810	0.809	0.813	0.800
Private households with employed persons	0.880	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 6.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.136	0.134	0.139	0.138	0.136	0.136	0.133	0.145
Mining and quarrying	0.068	0.072	0.071	0.071	0.070	0.070	0.069	0.075
Food, beverages, and tobacco	0.261	0.226	0.255	0.256	0.254	0.253	0.245	0.262
Textiles and textile products	0.305	0.280	0.281	0.281	0.277	0.275	0.269	0.286
Leather, leather products, and footwear	0.265	0.238	0.241	0.241	0.237	0.236	0.230	0.246
Wood and products of wood and cork	0.266	0.249	0.277	0.277	0.274	0.274	0.266	0.292
Pulp, paper, paper products, printing, and publishing	0.320	0.299	0.301	0.299	0.293	0.291	0.284	0.312
Coke, refined petroleum, and nuclear fuel	0.199	0.214	0.213	0.216	0.216	0.217	0.213	0.237
Chemicals and chemical products	0.335	0.342	0.343	0.341	0.335	0.335	0.328	0.357
Rubber and plastics	0.350	0.362	0.366	0.361	0.352	0.351	0.341	0.372
Other nonmetallic minerals	0.305	0.299	0.303	0.305	0.304	0.307	0.301	0.329
Basic metals and fabricated metal	0.451	0.442	0.442	0.442	0.437	0.434	0.425	0.450
Machinery, nec	0.460	0.392	0.391	0.390	0.385	0.382	0.374	0.396
Electrical and optical equipment	0.446	0.443	0.440	0.439	0.433	0.431	0.423	0.444
Transport equipment	0.536	0.494	0.491	0.489	0.482	0.475	0.463	0.499
Manufacturing, nec; recycling	0.258	0.245	0.253	0.252	0.249	0.249	0.244	0.263
Electricity, gas, and water supply	0.208	0.184	0.183	0.181	0.178	0.179	0.176	0.193
Construction	0.308	0.310	0.314	0.316	0.314	0.314	0.307	0.328
Sale, maintenance, and repair	0.182	0.193	0.191	0.190	0.187	0.184	0.180	0.189
Wholesale trade and commission trade	0.127	0.191	0.194	0.192	0.189	0.189	0.184	0.200
Retail trade	0.136	0.136	0.137	0.136	0.134	0.133	0.130	0.141
Hotels and restaurants	0.187	0.157	0.167	0.166	0.164	0.163	0.159	0.169
Inland transport	0.229	0.230	0.229	0.227	0.224	0.223	0.218	0.236
Water transport	0.216	0.229	0.228	0.227	0.224	0.222	0.217	0.234
Air transport	0.319	0.307	0.304	0.303	0.298	0.296	0.290	0.316
Other supporting and auxiliary transport activities	0.227	0.213	0.212	0.210	0.206	0.205	0.200	0.216
Post and telecommunications	0.162	0.207	0.203	0.200	0.196	0.195	0.191	0.205
Financial intermediation	0.097	0.106	0.105	0.104	0.102	0.102	0.100	0.108
Real estate activities	0.076	0.071	0.070	0.070	0.068	0.068	0.067	0.073
Renting of M&Eq and other business activities	0.156	0.133	0.132	0.130	0.127	0.126	0.123	0.135
Public administration and defense; compulsory social security	0.174	0.160	0.159	0.157	0.154	0.154	0.150	0.161
Education	0.084	0.073	0.072	0.071	0.070	0.070	0.068	0.075
Health and social work	0.262	0.246	0.246	0.244	0.239	0.238	0.232	0.251
Other community, social, and personal services	0.190	0.194	0.192	0.190	0.185	0.184	0.180	0.194
Private households with employed persons	0.112	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 6.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.636	1.631	1.622	1.622	1.630	1.635	1.638	1.616
Mining and quarrying	1.246	1.243	1.244	1.243	1.248	1.252	1.256	1.248
Food, beverages, and tobacco	2.543	2.589	2.537	2.534	2.544	2.555	2.550	2.479
Textiles and textile products	1.956	1.977	1.975	1.975	1.987	1.993	2.004	1.953
Leather, leather products, and footwear	1.855	1.887	1.882	1.882	1.895	1.900	1.907	1.864
Wood and products of wood and cork	2.363	2.347	2.293	2.291	2.302	2.312	2.317	2.292
Pulp, paper, paper products, printing, and publishing	2.070	2.094	2.090	2.095	2.113	2.120	2.131	2.098
Coke, refined petroleum, and nuclear fuel	1.968	1.806	1.808	1.803	1.806	1.823	1.835	1.833
Chemicals and chemical products	2.226	2.166	2.167	2.173	2.193	2.210	2.225	2.176
Rubber and plastics	2.661	2.539	2.541	2.560	2.595	2.609	2.613	2.575
Other nonmetallic minerals	2.262	2.209	2.197	2.189	2.194	2.223	2.240	2.214
Basic metals and fabricated metal	2.154	2.050	2.051	2.050	2.068	2.080	2.100	2.028
Machinery, nec	1.933	1.844	1.847	1.848	1.866	1.875	1.891	1.829
Electrical and optical equipment	1.882	1.881	1.891	1.894	1.915	1.923	1.943	1.874
Transport equipment	2.132	2.059	2.058	2.062	2.084	2.084	2.099	2.035
Manufacturing, nec; recycling	1.717	1.959	1.946	1.947	1.959	1.972	1.982	1.957
Electricity, gas, and water supply	1.750	1.755	1.759	1.761	1.772	1.787	1.798	1.787
Construction	2.130	2.074	2.062	2.056	2.064	2.077	2.091	2.049
Sale, maintenance, and repair	1.670	1.547	1.545	1.548	1.559	1.558	1.564	1.516
Wholesale trade and commission trade	1.470	1.791	1.789	1.790	1.802	1.808	1.815	1.788
Retail trade	1.501	1.604	1.603	1.604	1.613	1.615	1.618	1.592
Hotels and restaurants	2.079	2.114	2.099	2.099	2.109	2.114	2.114	2.070
Inland transport	2.076	2.030	2.035	2.038	2.051	2.060	2.071	2.041
Water transport	1.981	1.947	1.949	1.950	1.961	1.968	1.979	1.943
Air transport	2.206	2.192	2.196	2.199	2.214	2.223	2.237	2.198
Other supporting and auxiliary transport activities	2.085	2.077	2.081	2.085	2.099	2.105	2.114	2.082
Post and telecommunications	2.153	1.955	1.961	1.967	1.982	1.985	1.994	1.962
Financial intermediation	1.860	1.821	1.823	1.822	1.829	1.830	1.834	1.818
Real estate activities	1.600	1.587	1.588	1.587	1.593	1.594	1.597	1.585
Renting of M&Eq and other business activities	1.525	1.539	1.541	1.543	1.553	1.555	1.560	1.543
Public administration and defense; compulsory social security	1.787	1.797	1.799	1.801	1.812	1.815	1.822	1.795
Education	1.333	1.344	1.345	1.345	1.351	1.354	1.355	1.352
Health and social work	1.738	1.724	1.727	1.732	1.749	1.756	1.766	1.729
Other community, social, and personal services	1.769	1.882	1.886	1.890	1.903	1.907	1.915	1.887
Private households with employed persons	1.287	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

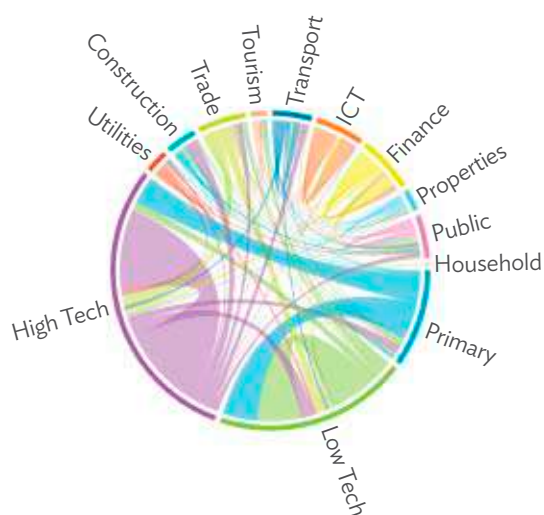
Source: Asian Development Bank Multi-Regional Input-Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 6.2

### Malaysia

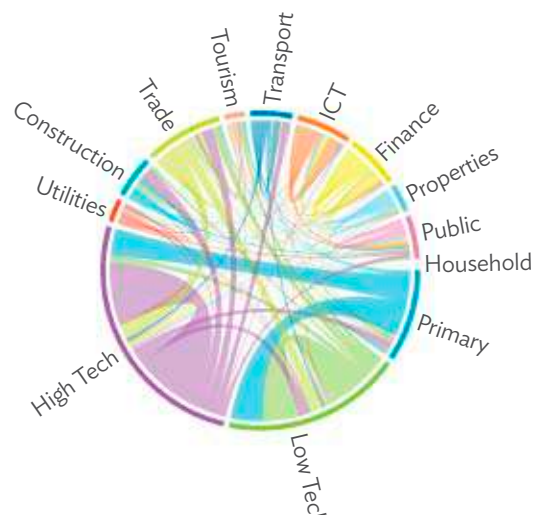
**Figure 6.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

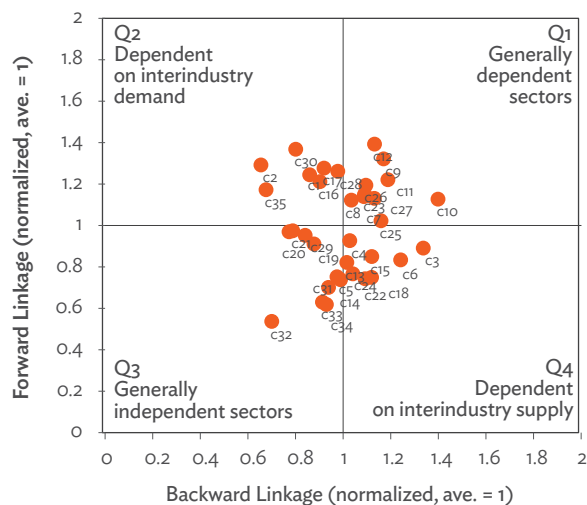
**Figure 6.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

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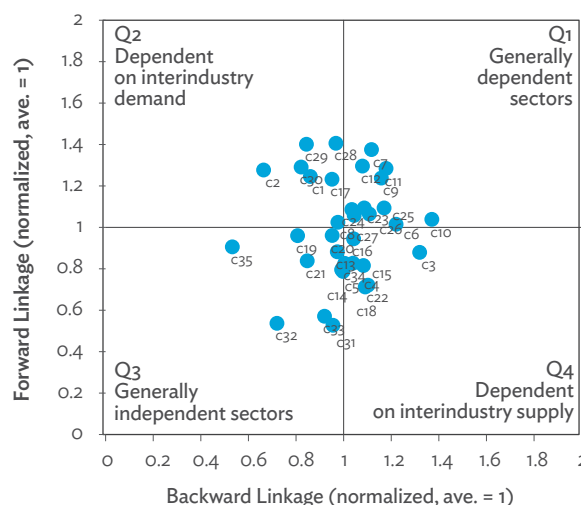
**Figure 6.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

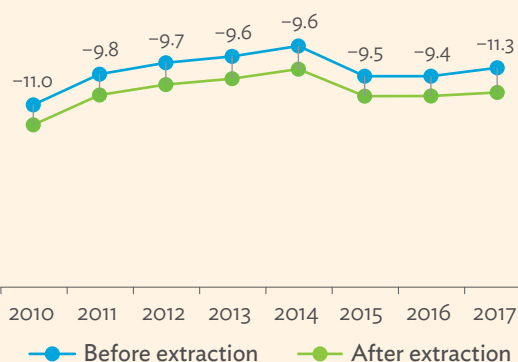
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**Figure 6.2.2b: Backward and Forward Linkages by Industry, 2017**

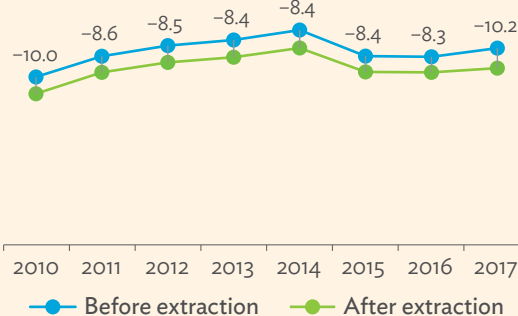


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

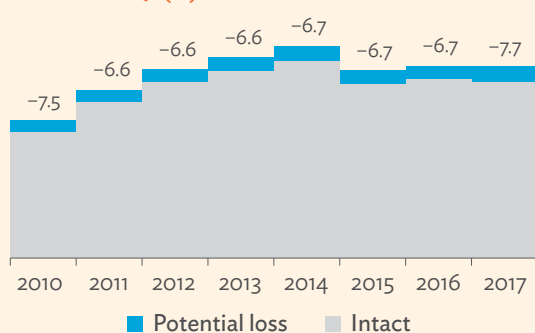
[Click here for figure data](#)

**Box 6: Hypothetical Extraction of Coke, Refined Petroleum, and Nuclear Fuel Industry in Malaysia****Figure 6.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**

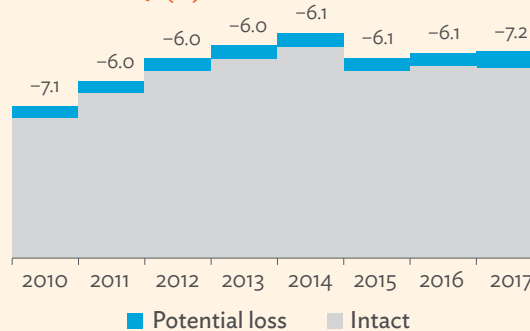
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 6.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**

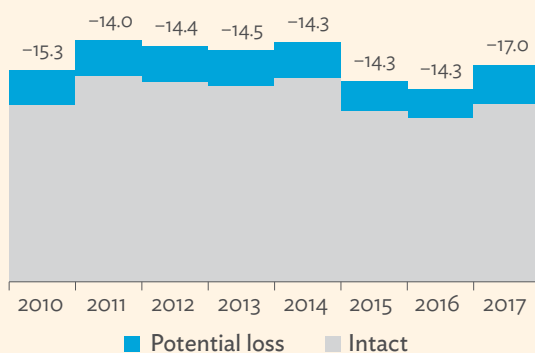
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 6.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**

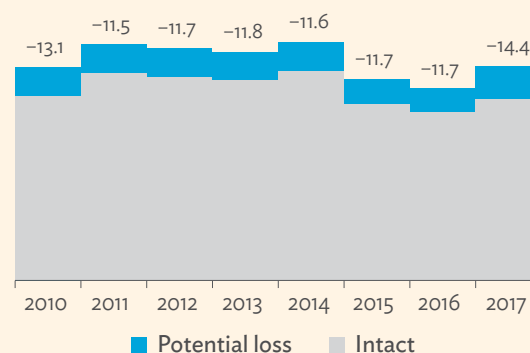
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 6.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 6.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 6.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 6.2.1: Input-Output Backward Linkage**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.636	1.631	1.622	1.622	1.630	1.635	1.638	1.616
Mining and quarrying	1.246	1.243	1.244	1.243	1.248	1.252	1.256	1.248
Food, beverages, and tobacco	2.543	2.589	2.537	2.534	2.544	2.555	2.550	2.479
Textiles and textile products	1.956	1.977	1.975	1.975	1.987	1.993	2.004	1.953
Leather, leather products, and footwear	1.855	1.887	1.882	1.882	1.895	1.900	1.907	1.864
Wood and products of wood and cork	2.363	2.347	2.293	2.291	2.302	2.312	2.317	2.292
Pulp, paper, paper products, printing, and publishing	2.070	2.094	2.090	2.095	2.113	2.120	2.131	2.098
Coke, refined petroleum, and nuclear fuel	1.968	1.806	1.808	1.803	1.806	1.823	1.835	1.833
Chemicals and chemical products	2.226	2.166	2.167	2.173	2.193	2.210	2.225	2.176
Rubber and plastics	2.661	2.539	2.541	2.560	2.595	2.609	2.613	2.575
Other nonmetallic minerals	2.262	2.209	2.197	2.189	2.194	2.223	2.240	2.214
Basic metals and fabricated metal	2.154	2.050	2.051	2.050	2.068	2.080	2.100	2.028
Machinery, nec	1.933	1.844	1.847	1.848	1.866	1.875	1.891	1.829
Electrical and optical equipment	1.882	1.881	1.891	1.894	1.915	1.923	1.943	1.874
Transport equipment	2.132	2.059	2.058	2.062	2.084	2.084	2.099	2.035
Manufacturing, nec; recycling	1.717	1.959	1.946	1.947	1.959	1.972	1.982	1.957
Electricity, gas, and water supply	1.750	1.755	1.759	1.761	1.772	1.787	1.798	1.787
Construction	2.130	2.074	2.062	2.056	2.064	2.077	2.091	2.049
Sale, maintenance, and repair	1.670	1.547	1.545	1.548	1.559	1.558	1.564	1.516
Wholesale trade and commission trade	1.470	1.791	1.789	1.790	1.802	1.808	1.815	1.788
Retail trade	1.501	1.604	1.603	1.604	1.613	1.615	1.618	1.592
Hotels and restaurants	2.079	2.114	2.099	2.099	2.109	2.114	2.114	2.070
Inland transport	2.076	2.030	2.035	2.038	2.051	2.060	2.071	2.041
Water transport	1.981	1.947	1.949	1.950	1.961	1.968	1.979	1.943
Air transport	2.206	2.192	2.196	2.199	2.214	2.223	2.237	2.198
Other supporting and auxiliary transport activities	2.085	2.077	2.081	2.085	2.099	2.105	2.114	2.082
Post and telecommunications	2.153	1.955	1.961	1.967	1.982	1.985	1.994	1.962
Financial intermediation	1.860	1.821	1.823	1.822	1.829	1.830	1.834	1.818
Real estate activities	1.600	1.587	1.588	1.587	1.593	1.594	1.597	1.585
Renting of M&Eq and other business activities	1.525	1.539	1.541	1.543	1.553	1.555	1.560	1.543
Public administration and defense; compulsory social security	1.787	1.797	1.799	1.801	1.812	1.815	1.822	1.795
Education	1.333	1.344	1.345	1.345	1.351	1.354	1.355	1.352
Health and social work	1.738	1.724	1.727	1.732	1.749	1.756	1.766	1.729
Other community, social, and personal services	1.769	1.882	1.886	1.890	1.903	1.907	1.915	1.887
Private households with employed persons	1.287	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	lowest linkage							highest linkage


M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 6.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.251	1.175	1.210	1.238	1.264	1.264	1.251	1.252
Mining and quarrying	1.300	1.263	1.262	1.277	1.293	1.297	1.308	1.285
Food, beverages, and tobacco	0.888	0.907	0.906	0.906	0.904	0.904	0.888	0.876
Textiles and textile products	0.924	0.829	0.829	0.828	0.825	0.821	0.851	0.822
Leather, leather products, and footwear	0.745	0.785	0.785	0.775	0.763	0.760	0.769	0.789
Wood and products of wood and cork	0.828	0.974	0.990	1.000	1.008	1.016	1.015	1.015
Pulp, paper, paper products, printing, and publishing	1.143	1.321	1.334	1.349	1.367	1.365	1.365	1.386
Coke, refined petroleum, and nuclear fuel	1.125	1.029	1.024	1.028	1.031	1.035	1.041	1.024
Chemicals and chemical products	1.330	1.225	1.217	1.225	1.235	1.240	1.232	1.244
Rubber and plastics	1.130	1.016	1.030	1.043	1.055	1.065	1.041	1.039
Other nonmetallic minerals	1.227	1.289	1.294	1.292	1.292	1.290	1.282	1.292
Basic metals and fabricated metal	1.403	1.270	1.286	1.296	1.310	1.314	1.310	1.304
Machinery, nec	0.816	0.857	0.861	0.860	0.858	0.865	0.875	0.879
Electrical and optical equipment	0.730	0.777	0.782	0.785	0.787	0.796	0.798	0.781
Transport equipment	0.845	0.799	0.797	0.801	0.804	0.807	0.812	0.810
Manufacturing, nec; recycling	1.217	0.918	0.921	0.927	0.931	0.938	0.945	0.943
Electricity, gas, and water supply	1.285	1.293	1.278	1.260	1.244	1.238	1.232	1.238
Construction	0.742	0.728	0.706	0.695	0.684	0.687	0.690	0.704
Sale, maintenance, and repair	0.908	1.001	0.996	0.976	0.958	0.960	0.960	0.959
Wholesale trade and commission trade	0.968	1.001	0.996	0.976	0.958	0.961	0.962	0.959
Retail trade	0.973	0.867	0.863	0.848	0.834	0.833	0.832	0.833
Hotels and restaurants	0.736	0.741	0.737	0.728	0.718	0.711	0.708	0.713
Inland transport	1.155	1.099	1.098	1.099	1.101	1.102	1.104	1.096
Water transport	0.760	1.095	1.093	1.094	1.095	1.095	1.097	1.089
Air transport	1.023	1.100	1.098	1.100	1.102	1.101	1.103	1.096
Other supporting and auxiliary transport activities	1.199	1.068	1.067	1.069	1.071	1.071	1.072	1.066
Post and telecommunications	1.134	1.092	1.085	1.074	1.063	1.058	1.057	1.059
Financial intermediation	1.268	1.417	1.396	1.413	1.432	1.420	1.412	1.417
Real estate activities	0.950	1.411	1.417	1.405	1.395	1.391	1.386	1.412
Renting of M&Eq and other business activities	1.377	1.321	1.315	1.299	1.287	1.288	1.289	1.298
Public administration and defense; compulsory social security	0.692	0.516	0.514	0.513	0.509	0.504	0.500	0.514
Education	0.523	0.533	0.531	0.530	0.526	0.520	0.518	0.523
Health and social work	0.619	0.594	0.587	0.585	0.580	0.572	0.574	0.559
Other community, social, and personal services	0.608	0.804	0.810	0.811	0.811	0.805	0.801	0.821
Private households with employed persons	1.177	0.884	0.886	0.894	0.901	0.904	0.918	0.903
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.

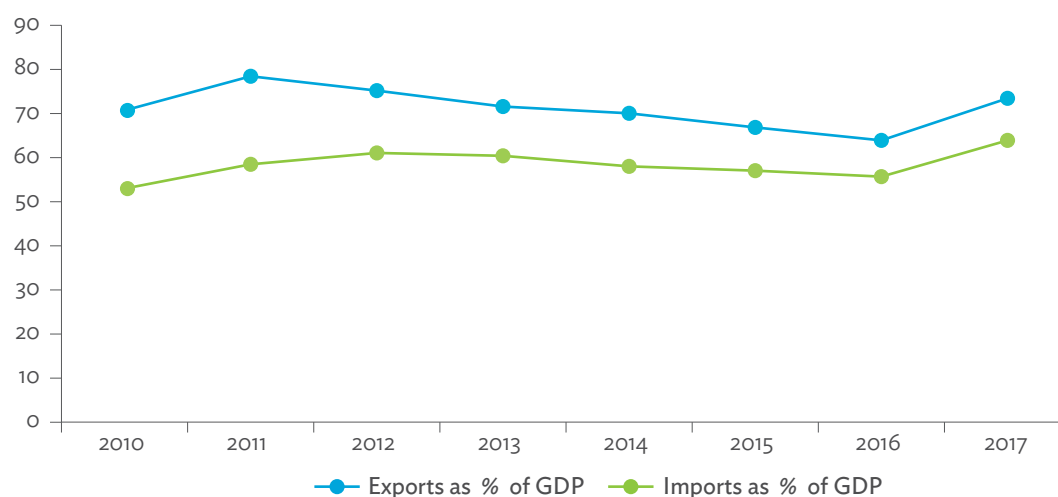


# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 6.3

### Malaysia

**Figure 6.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

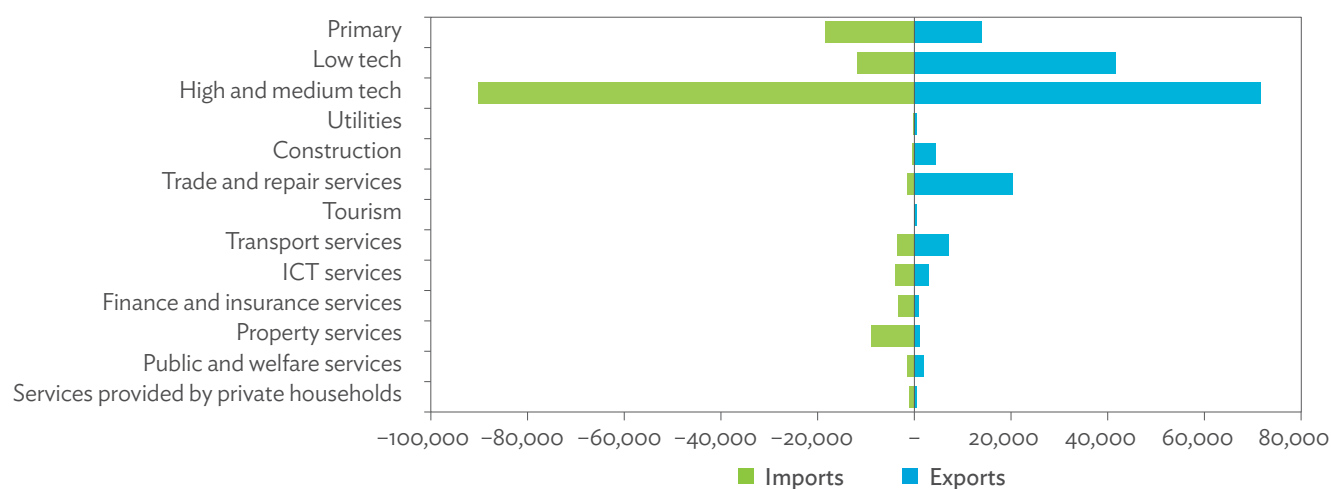


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

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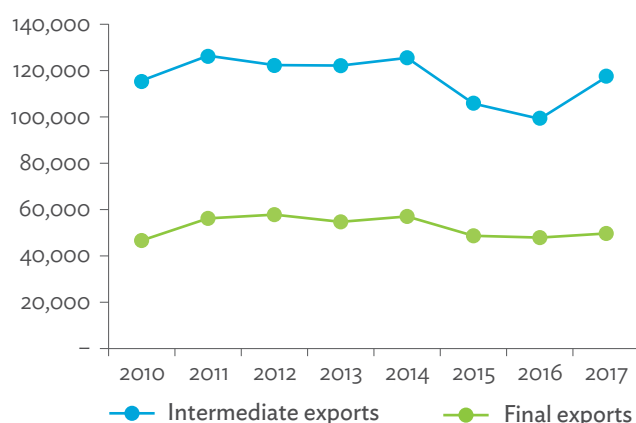
**Figure 6.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

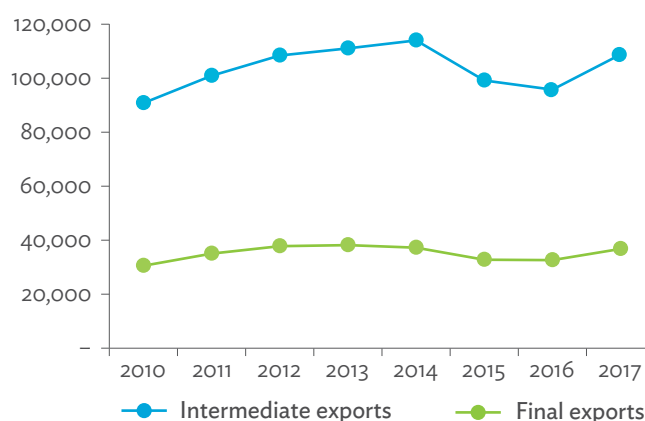
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**Figure 6.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

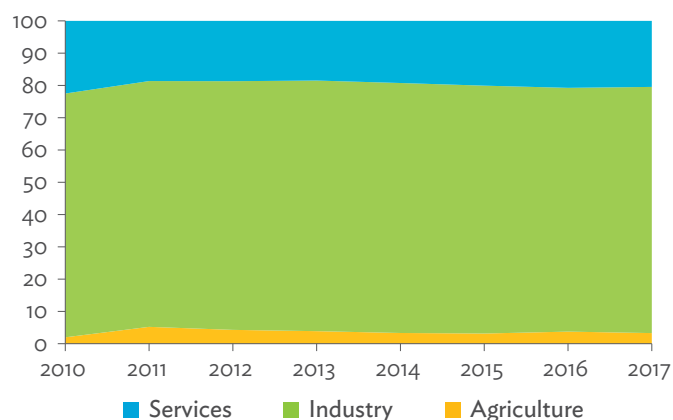
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**Figure 6.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

\$ = United States dollar.

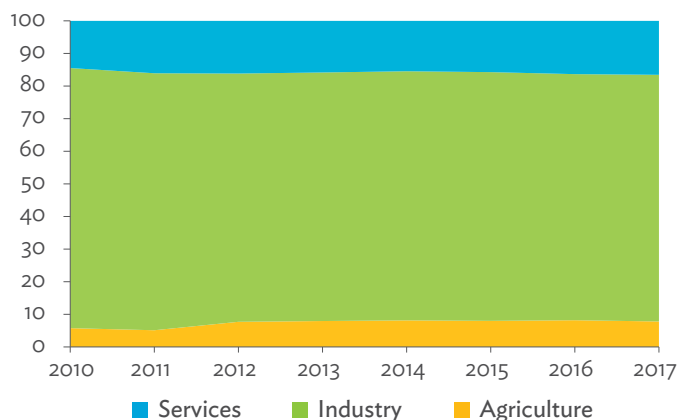
Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 6.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**

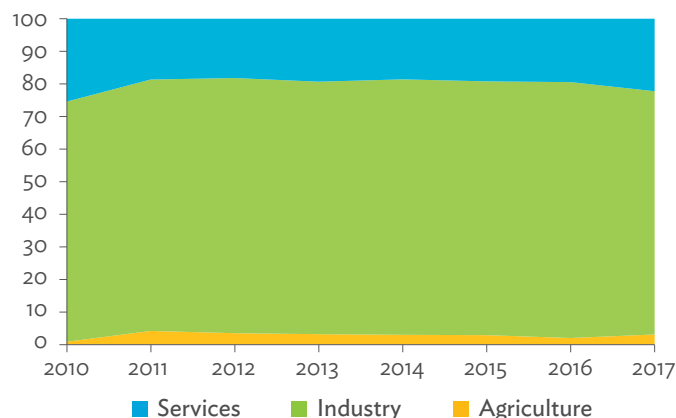
Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 6.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**

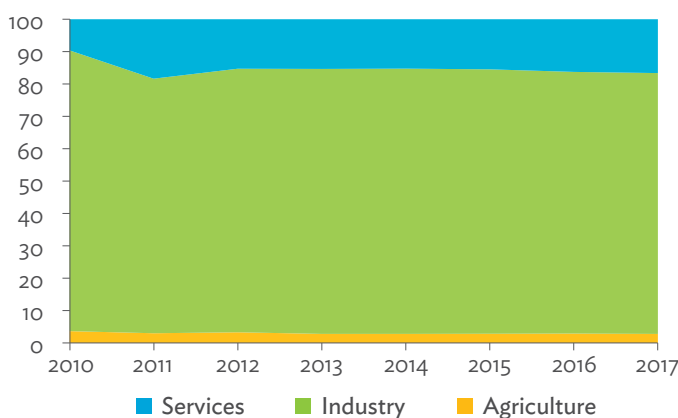
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

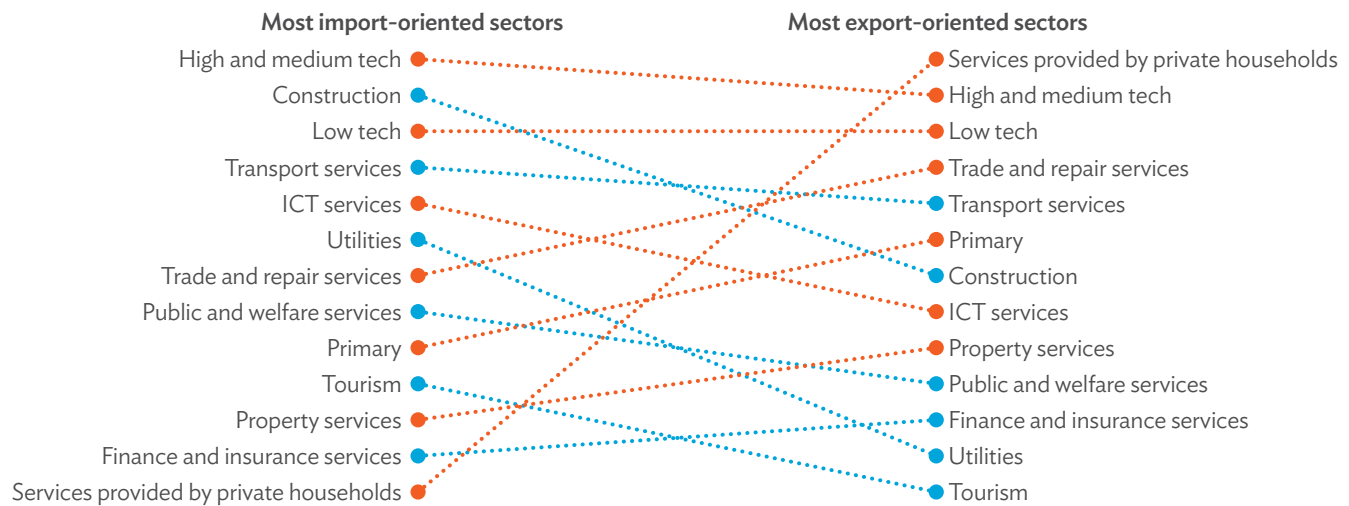
[Click here for figure data](#)

**Figure 6.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

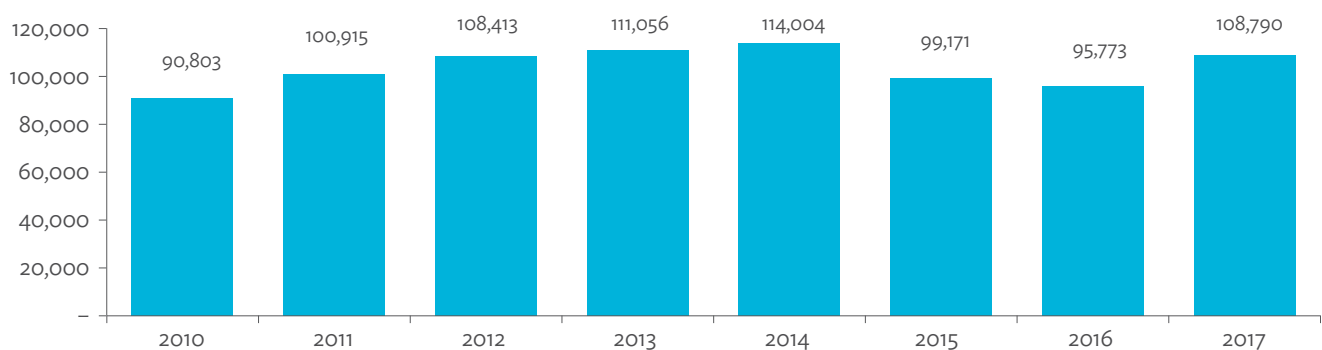


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

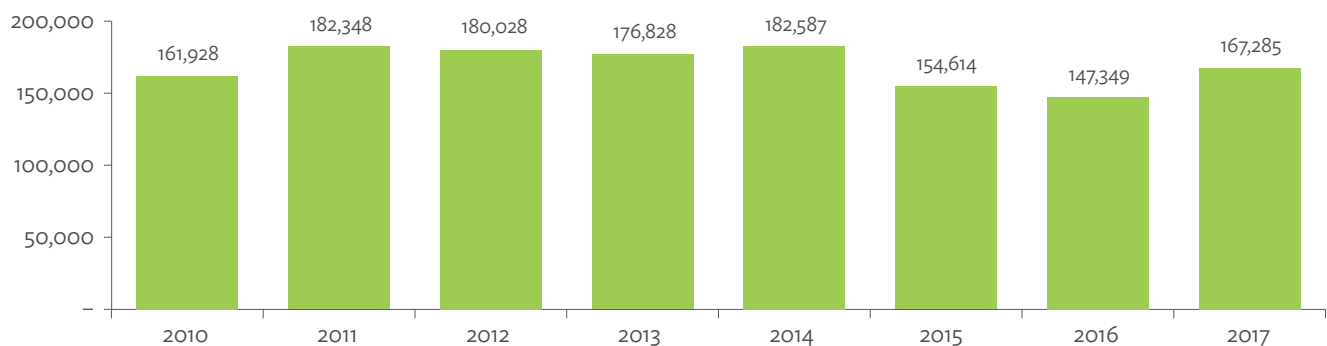


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

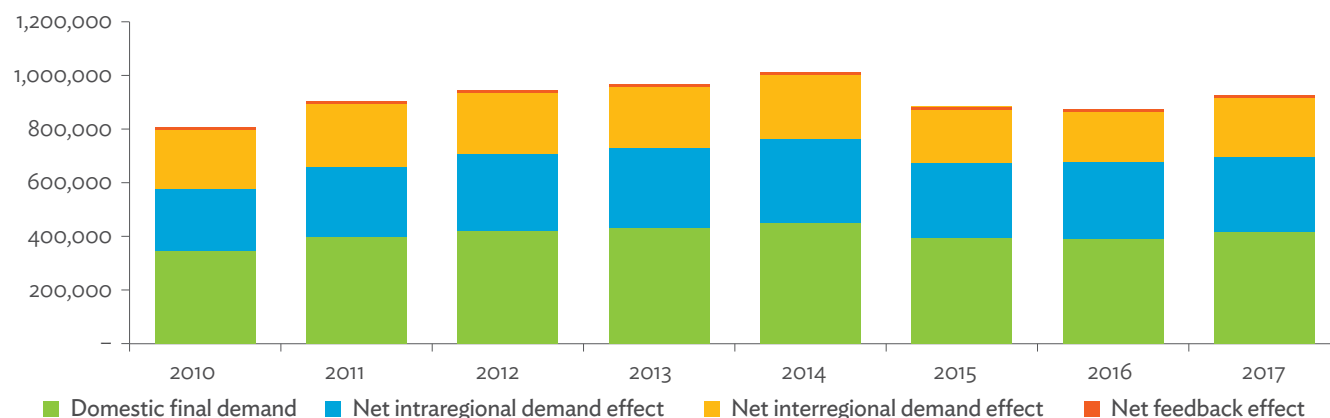
**Figure 6.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**



\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

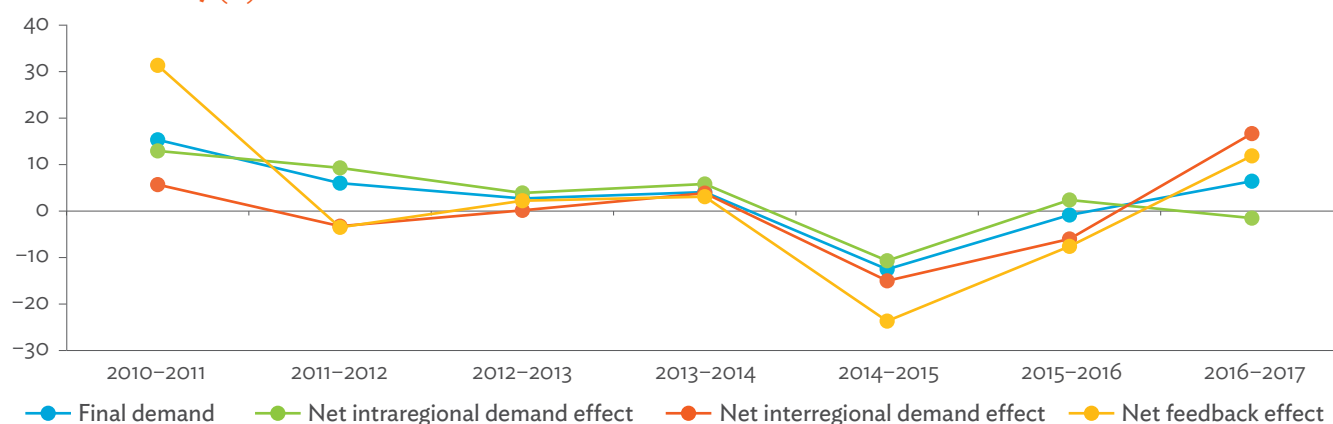
[Click here for figure data](#)

**Figure 6.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

\$ = United States dollar.

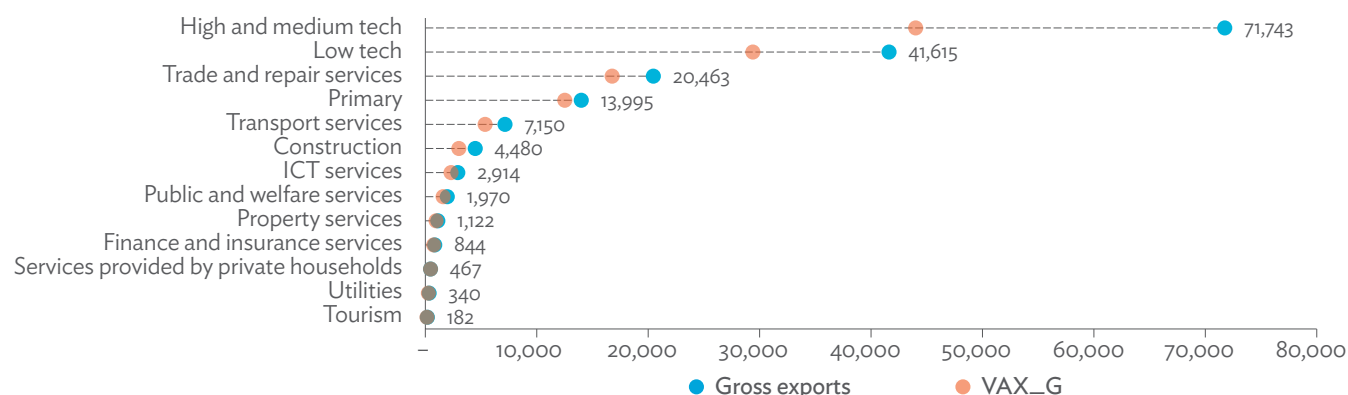
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

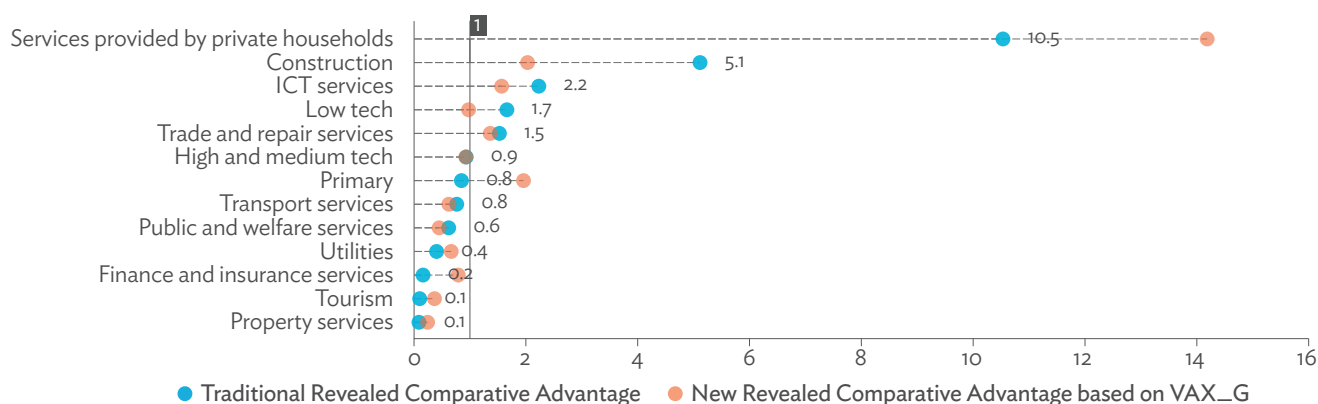
**Figure 6.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 6.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	19,584	27,712	24,481	22,152	19,959	15,785	15,138	17,692
Low tech	90,057	99,802	108,776	113,500	120,081	105,530	105,521	112,165
High and medium tech	99,213	114,015	117,859	119,041	121,703	104,107	100,565	108,132
Business service	86,031	97,401	104,180	110,941	119,114	108,085	108,963	117,468
Personal service	50,937	59,937	67,560	68,699	71,220	61,948	61,946	61,895
Intraregional effects (M1)								
Primary	34,600	41,809	42,762	44,020	45,751	38,163	40,004	38,957
Low tech	52,097	57,655	63,614	66,530	70,654	63,526	64,175	63,284
High and medium tech	67,266	65,012	72,435	75,390	80,577	72,651	73,389	71,624
Business service	67,658	89,274	98,539	102,364	108,229	98,378	101,640	98,759
Personal service	8,156	5,787	6,318	6,438	6,722	5,907	6,091	8,362

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 6.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	34,375	41,797	39,063	37,837	37,857	30,139	28,237	34,130
Low tech	49,626	49,928	49,392	49,004	52,054	44,444	41,385	50,350
High and medium tech	89,224	93,762	90,890	93,203	96,010	81,734	75,815	86,155
Business service	54,729	56,455	54,732	54,361	57,489	50,573	49,028	55,396
Personal service	3,003	2,175	2,117	2,162	2,295	1,955	1,857	3,027
Feedback effects (M3)								
Primary	87.18	91.64	91.09	89.59	90.26	65.45	58.59	77.47
Low tech	100.26	104.38	104.55	104.91	110.55	85.05	78.13	98.64
High and medium tech	273.95	411.72	390.09	405.80	413.48	314.24	288.86	299.54
Business service	107.74	142.32	138.07	139.65	148.44	117.48	112.42	124.09
Personal service	6.31	5.83	5.69	5.83	6.18	4.71	4.41	7.11

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 6.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.6356	0.6314	0.6222	0.6217	0.6300	0.6348	0.6385	0.6156
Mining and quarrying	0.2460	0.2433	0.2441	0.2427	0.2482	0.2524	0.2562	0.2478
Food, beverages, and tobacco	1.5430	1.5887	1.5365	1.5341	1.5439	1.5547	1.5505	1.4789
Textiles and textile products	0.9560	0.9770	0.9748	0.9747	0.9873	0.9932	1.0040	0.9532
Leather, leather products, and footwear	0.8548	0.8873	0.8817	0.8823	0.8946	0.9000	0.9070	0.8638
Wood and products of wood and cork	1.3627	1.3469	1.2932	1.2915	1.3021	1.3116	1.3175	1.2925
Pulp, paper, paper products, printing, and publishing	1.0697	1.0940	1.0903	1.0953	1.1134	1.1199	1.1306	1.0985
Coke, refined petroleum, and nuclear fuel	0.9684	0.8062	0.8084	0.8027	0.8061	0.8230	0.8354	0.8334
Chemicals and chemical products	1.2257	1.1658	1.1669	1.1727	1.1930	1.2105	1.2249	1.1758
Rubber and plastics	1.6615	1.5391	1.5412	1.5604	1.5946	1.6085	1.6129	1.5750
Other nonmetallic minerals	1.2616	1.2094	1.1965	1.1888	1.1945	1.2229	1.2396	1.2141
Basic metals and fabricated metal	1.1539	1.0502	1.0506	1.0504	1.0677	1.0801	1.0998	1.0279
Machinery, nec	0.9331	0.8436	0.8469	0.8483	0.8657	0.8749	0.8913	0.8291
Electrical and optical equipment	0.8824	0.8805	0.8905	0.8940	0.9147	0.9235	0.9429	0.8737
Transport equipment	1.1325	1.0589	1.0575	1.0618	1.0837	1.0840	1.0987	1.0355
Manufacturing, nec; recycling	0.7170	0.9587	0.9459	0.9466	0.9594	0.9724	0.9817	0.9572
Electricity, gas, and water supply	0.7500	0.7551	0.7586	0.7607	0.7716	0.7873	0.7978	0.7867
Construction	1.1302	1.0744	1.0620	1.0555	1.0635	1.0766	1.0908	1.0489
Sale, maintenance, and repair	0.6702	0.5470	0.5453	0.5480	0.5595	0.5579	0.5639	0.5159
Wholesale trade and commission trade	0.4702	0.7906	0.7886	0.7903	0.8017	0.8079	0.8148	0.7885
Retail trade	0.5015	0.6037	0.6027	0.6039	0.6135	0.6151	0.6181	0.5923
Hotels and restaurants	1.0787	1.1142	1.0992	1.0994	1.1092	1.1144	1.1142	1.0704
Inland transport	1.0758	1.0302	1.0352	1.0379	1.0514	1.0605	1.0710	1.0409
Water transport	0.9808	0.9468	0.9493	0.9498	0.9613	0.9681	0.9790	0.9433
Air transport	1.2058	1.1919	1.1958	1.1987	1.2138	1.2230	1.2369	1.1978
Other supporting and auxiliary transport activities	1.0847	1.0774	1.0813	1.0848	1.0987	1.1047	1.1137	1.0819
Post and telecommunications	1.1532	0.9554	0.9613	0.9668	0.9815	0.9848	0.9936	0.9621
Financial intermediation	0.8605	0.8207	0.8228	0.8224	0.8294	0.8304	0.8342	0.8179
Real estate activities	0.6003	0.5869	0.5878	0.5872	0.5928	0.5939	0.5968	0.5849
Renting of M&Eq and other business activities	0.5245	0.5387	0.5408	0.5428	0.5527	0.5547	0.5598	0.5431
Public administration and defense; compulsory social security	0.7868	0.7968	0.7989	0.8009	0.8119	0.8154	0.8219	0.7952
Education	0.3328	0.3441	0.3453	0.3449	0.3510	0.3536	0.3551	0.3518
Health and social work	0.7383	0.7241	0.7269	0.7321	0.7494	0.7560	0.7656	0.7288
Other community, social, and personal services	0.7693	0.8823	0.8860	0.8896	0.9029	0.9071	0.9146	0.8874
Private households with employed persons	0.2869	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 6.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.3333	0.3290	0.3396	0.3415	0.3364	0.3380	0.3283	0.3590
Mining and quarrying	0.1719	0.1812	0.1815	0.1828	0.1808	0.1833	0.1801	0.1943
Food, beverages, and tobacco	0.6081	0.5269	0.5845	0.5871	0.5818	0.5827	0.5622	0.6009
Textiles and textile products	0.7845	0.7271	0.7304	0.7397	0.7298	0.7284	0.7110	0.7563
Leather, leather products, and footwear	0.6748	0.6179	0.6224	0.6275	0.6171	0.6165	0.5994	0.6418
Wood and products of wood and cork	0.6228	0.5901	0.6487	0.6524	0.6452	0.6462	0.6262	0.6869
Pulp, paper, paper products, printing, and publishing	0.7712	0.7231	0.7277	0.7317	0.7186	0.7134	0.6927	0.7622
Coke, refined petroleum, and nuclear fuel	0.4507	0.4467	0.4470	0.4608	0.4630	0.4766	0.4710	0.5208
Chemicals and chemical products	0.8428	0.8716	0.8735	0.8797	0.8652	0.8708	0.8529	0.9256
Rubber and plastics	0.8761	0.9288	0.9340	0.9285	0.9031	0.9054	0.8762	0.9574
Other nonmetallic minerals	0.7576	0.7339	0.7481	0.7650	0.7623	0.7793	0.7647	0.8338
Basic metals and fabricated metal	1.2149	1.2010	1.2112	1.2283	1.2159	1.2197	1.1944	1.2712
Machinery, nec	1.2536	1.0619	1.0664	1.0784	1.0650	1.0673	1.0440	1.1099
Electrical and optical equipment	1.2145	1.2234	1.2180	1.2341	1.2176	1.2231	1.1994	1.2632
Transport equipment	1.4652	1.3707	1.3669	1.3767	1.3552	1.3476	1.3123	1.4174
Manufacturing, nec; recycling	0.6642	0.6280	0.6448	0.6498	0.6417	0.6483	0.6311	0.6794
Electricity, gas, and water supply	0.5053	0.4433	0.4429	0.4444	0.4357	0.4445	0.4363	0.4747
Construction	0.8059	0.8145	0.8331	0.8506	0.8462	0.8541	0.8371	0.8928
Sale, maintenance, and repair	0.4515	0.5179	0.5139	0.5179	0.5119	0.5080	0.4947	0.5220
Wholesale trade and commission trade	0.3170	0.4716	0.4757	0.4793	0.4720	0.4745	0.4616	0.5005
Retail trade	0.3378	0.3454	0.3464	0.3479	0.3425	0.3427	0.3340	0.3646
Hotels and restaurants	0.4484	0.3760	0.3942	0.3953	0.3897	0.3906	0.3787	0.4040
Inland transport	0.5644	0.5650	0.5630	0.5675	0.5579	0.5636	0.5501	0.5952
Water transport	0.5441	0.5780	0.5778	0.5819	0.5730	0.5750	0.5619	0.6032
Air transport	0.7722	0.7481	0.7454	0.7524	0.7408	0.7467	0.7289	0.7948
Other supporting and auxiliary transport activities	0.5434	0.5209	0.5190	0.5206	0.5107	0.5117	0.4989	0.5382
Post and telecommunications	0.3872	0.4639	0.4570	0.4573	0.4481	0.4483	0.4373	0.4678
Financial intermediation	0.2197	0.2283	0.2252	0.2256	0.2211	0.2210	0.2165	0.2341
Real estate activities	0.1722	0.1562	0.1550	0.1553	0.1526	0.1537	0.1511	0.1625
Renting of M&Eq and other business activities	0.3412	0.3118	0.3103	0.3098	0.3032	0.3016	0.2931	0.3198
Public administration and defense; compulsory social security	0.4164	0.3826	0.3818	0.3824	0.3752	0.3766	0.3666	0.3936
Education	0.2099	0.1815	0.1800	0.1791	0.1747	0.1763	0.1698	0.1876
Health and social work	0.6677	0.6440	0.6465	0.6479	0.6346	0.6334	0.6184	0.6692
Other community, social, and personal services	0.4347	0.4459	0.4428	0.4430	0.4335	0.4343	0.4216	0.4489
Private households with employed persons	0.2559	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 6.3.5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0010	0.0009	0.0009	0.0009	0.0009	0.0008	0.0007	0.0009
Mining and quarrying	0.0005	0.0005	0.0005	0.0005	0.0005	0.0004	0.0004	0.0005
Food, beverages, and tobacco	0.0018	0.0014	0.0014	0.0014	0.0014	0.0012	0.0011	0.0014
Textiles and textile products	0.0023	0.0021	0.0020	0.0020	0.0019	0.0017	0.0015	0.0019
Leather, leather products, and footwear	0.0019	0.0017	0.0016	0.0016	0.0016	0.0014	0.0012	0.0015
Wood and products of wood and cork	0.0019	0.0017	0.0017	0.0016	0.0016	0.0014	0.0013	0.0016
Pulp, paper, paper products, printing, and publishing	0.0021	0.0020	0.0019	0.0019	0.0019	0.0016	0.0015	0.0019
Coke, refined petroleum, and nuclear fuel	0.0013	0.0009	0.0008	0.0008	0.0009	0.0008	0.0007	0.0009
Chemicals and chemical products	0.0027	0.0026	0.0025	0.0025	0.0025	0.0022	0.0020	0.0025
Rubber and plastics	0.0029	0.0033	0.0031	0.0030	0.0029	0.0025	0.0022	0.0029
Other nonmetallic minerals	0.0022	0.0019	0.0018	0.0018	0.0018	0.0016	0.0015	0.0019
Basic metals and fabricated metal	0.0030	0.0029	0.0028	0.0028	0.0028	0.0025	0.0023	0.0027
Machinery, nec	0.0052	0.0032	0.0029	0.0030	0.0030	0.0027	0.0025	0.0028
Electrical and optical equipment	0.0061	0.0087	0.0077	0.0079	0.0077	0.0067	0.0064	0.0063
Transport equipment	0.0051	0.0062	0.0056	0.0055	0.0053	0.0046	0.0043	0.0046
Manufacturing, nec; recycling	0.0022	0.0019	0.0018	0.0018	0.0018	0.0016	0.0014	0.0017
Electricity, gas, and water supply	0.0014	0.0012	0.0011	0.0011	0.0011	0.0010	0.0009	0.0011
Construction	0.0024	0.0026	0.0024	0.0024	0.0024	0.0022	0.0020	0.0023
Sale, maintenance, and repair	0.0015	0.0017	0.0016	0.0015	0.0015	0.0013	0.0012	0.0014
Wholesale trade and commission trade	0.0010	0.0017	0.0016	0.0016	0.0016	0.0014	0.0013	0.0015
Retail trade	0.0011	0.0012	0.0011	0.0011	0.0010	0.0009	0.0008	0.0010
Hotels and restaurants	0.0013	0.0011	0.0010	0.0010	0.0010	0.0009	0.0008	0.0010
Inland transport	0.0021	0.0017	0.0016	0.0016	0.0015	0.0014	0.0013	0.0015
Water transport	0.0017	0.0015	0.0015	0.0015	0.0014	0.0013	0.0012	0.0014
Air transport	0.0027	0.0021	0.0020	0.0020	0.0019	0.0017	0.0016	0.0019
Other supporting and auxiliary transport activities	0.0020	0.0016	0.0015	0.0015	0.0015	0.0013	0.0012	0.0014
Post and telecommunications	0.0013	0.0018	0.0017	0.0017	0.0016	0.0014	0.0013	0.0014
Financial intermediation	0.0006	0.0006	0.0006	0.0006	0.0005	0.0005	0.0004	0.0005
Real estate activities	0.0005	0.0004	0.0004	0.0004	0.0004	0.0003	0.0003	0.0004
Renting of M&Eq and other business activities	0.0009	0.0010	0.0009	0.0009	0.0008	0.0007	0.0007	0.0008
Public administration and defense; compulsory social security	0.0013	0.0013	0.0012	0.0012	0.0012	0.0010	0.0009	0.0011
Education	0.0008	0.0009	0.0008	0.0008	0.0007	0.0006	0.0006	0.0006
Health and social work	0.0023	0.0023	0.0022	0.0022	0.0021	0.0019	0.0017	0.0021
Other community, social, and personal services	0.0013	0.0016	0.0015	0.0015	0.0014	0.0013	0.0012	0.0012
Private households with employed persons	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 6.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	13,156	12,025	19,888	17,854	18,188	16,346	16,910	15,215	15,885	14,316	12,443	11,208	11,745	10,591	13,995	12,516
Low tech	35,927	25,499	44,389	32,939	44,264	31,861	44,026	31,691	44,615	32,290	37,643	27,273	35,572	26,051	41,615	29,393
High and medium tech	71,360	42,995	81,755	49,536	80,963	49,275	79,543	48,507	82,514	50,626	69,619	42,817	65,789	40,978	71,743	44,006
Utilities	1,745	1,381	383	312	376	307	359	293	395	324	323	265	310	255	340	274
Construction	1,923	1,330	1,923	1,328	2,876	1,973	2,843	1,945	4,396	3,016	3,965	2,720	3,979	2,756	4,480	3,009
Trade and repair services	14,740	12,645	19,851	16,420	19,488	16,102	19,273	15,929	20,130	16,688	17,869	14,834	17,489	14,589	20,463	16,764
Tourism	2,092	1,701	94	79	92	77	134	112	174	146	156	131	158	133	182	151
Transport services	8,874	6,650	7,684	5,811	7,553	5,723	7,426	5,637	7,533	5,749	6,554	5,010	6,404	4,928	7,150	5,364
ICT services	6,323	5,289	3,041	2,402	2,996	2,377	2,771	2,206	2,928	2,345	2,613	2,096	2,589	2,086	2,914	2,306
Finance and insurance services	2,994	2,698	943	842	925	826	932	833	1,004	899	822	737	773	694	844	751
Property services	327	275	738	638	716	619	979	849	1,123	975	994	864	992	865	1,122	966
Public and welfare services	2,213	1,825	1,322	1,069	1,262	1,023	1,307	1,065	1,553	1,278	1,326	1,091	1,273	1,053	1,970	1,597
Services provided by private households	255	226	336	336	329	328	326	326	335	335	288	287	275	275	467	466

\$ = United States dollar, ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 6.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.747	1.798	0.897	1.764	0.831	1.740	0.829	1.778	0.802	1.827	0.831	1.862	0.844	1.899	0.848	1.958
Low tech	1.538	0.806	1.718	0.994	1.744	0.992	1.707	0.985	1.643	0.947	1.627	0.959	1.617	0.938	1.661	0.976
High and medium tech	0.941	0.884	0.959	0.925	0.970	0.950	0.977	0.961	0.981	0.964	0.971	0.984	0.975	0.978	0.933	0.925
Utilities	2.406	1.031	0.470	0.689	0.459	0.708	0.438	0.719	0.461	0.762	0.430	0.725	0.348	0.718	0.403	0.665
Construction	3.023	1.176	2.749	1.152	3.937	1.419	2.985	1.340	4.684	1.797	4.819	1.968	4.407	1.983	5.115	2.030
Trade and repair services	1.163	1.281	1.408	1.309	1.359	1.297	1.392	1.301	1.404	1.302	1.441	1.334	1.471	1.363	1.527	1.362
Tourism	1.224	0.987	0.049	0.342	0.049	0.339	0.072	0.349	0.088	0.353	0.094	0.365	0.087	0.361	0.101	0.365
Transport services	0.919	0.699	0.756	0.628	0.741	0.627	0.759	0.629	0.741	0.619	0.749	0.629	0.779	0.651	0.764	0.623
ICT services	5.820	2.834	2.650	1.850	2.406	1.862	2.284	1.831	2.310	1.880	2.405	1.943	2.385	1.885	2.232	1.567
Finance and insurance services	0.600	1.031	0.178	0.974	0.177	0.951	0.176	0.928	0.180	0.913	0.170	0.847	0.161	0.828	0.161	0.791
Property services	0.031	0.182	0.063	0.221	0.062	0.224	0.082	0.230	0.087	0.235	0.087	0.239	0.089	0.245	0.088	0.243
Public and welfare services	0.732	0.576	0.416	0.312	0.389	0.310	0.385	0.311	0.447	0.332	0.430	0.322	0.408	0.312	0.620	0.449
Services provided by private households	3.702	7.582	3.871	5.537	3.178	4.669	4.480	6.394	5.558	7.994	6.178	8.816	6.801	9.599	10.532	14.185

ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

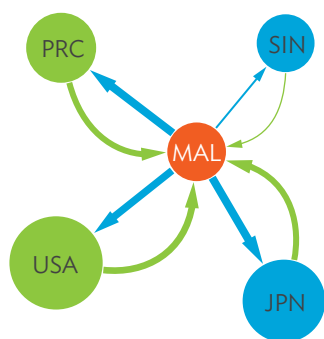
Source: Asian Development Bank Multi-Regional Input-Output Database.

# 6.4

## GLOBAL VALUE CHAIN INDICATORS

### Malaysia

**Figure 6.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

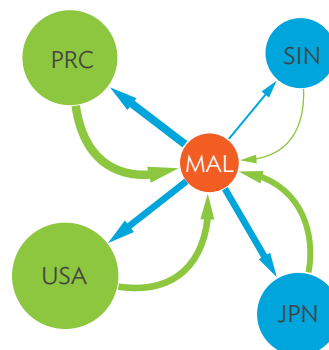
JPN = Japan, MAL = Malaysia, PRC = People's Republic of China, SIN = Singapore, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

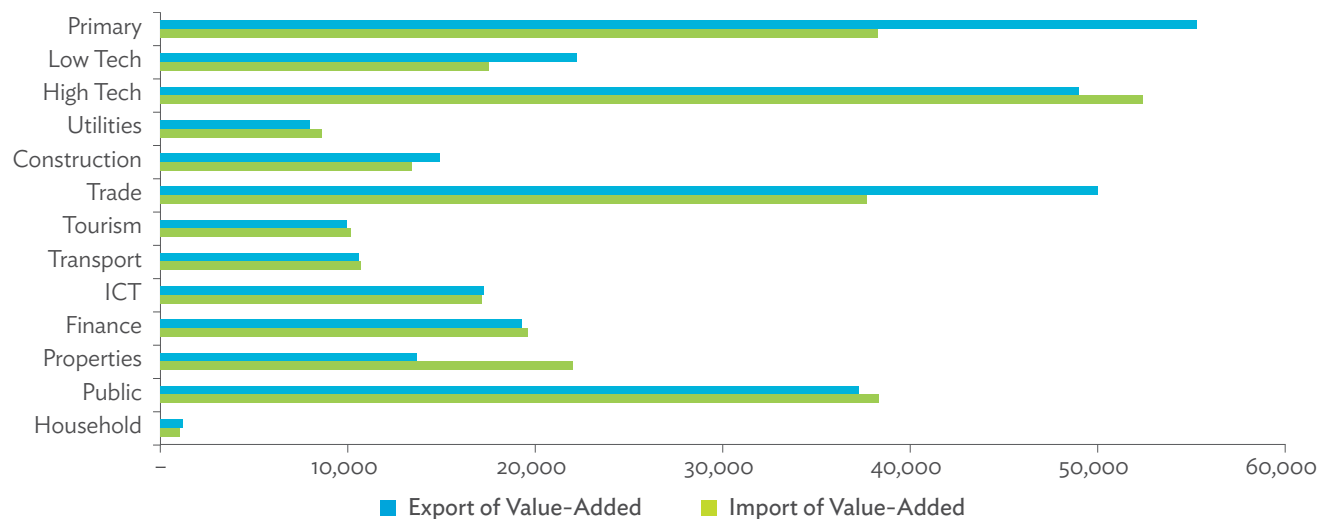
JPN = Japan, MAL = Malaysia, PRC = People's Republic of China, SIN = Singapore, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

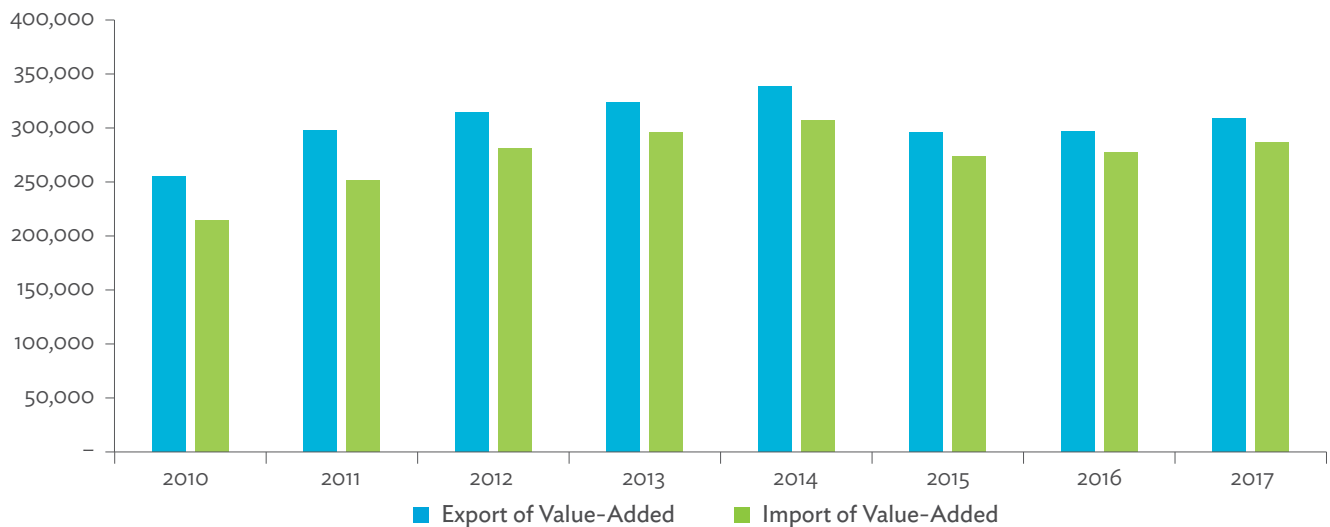
**Figure 6.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

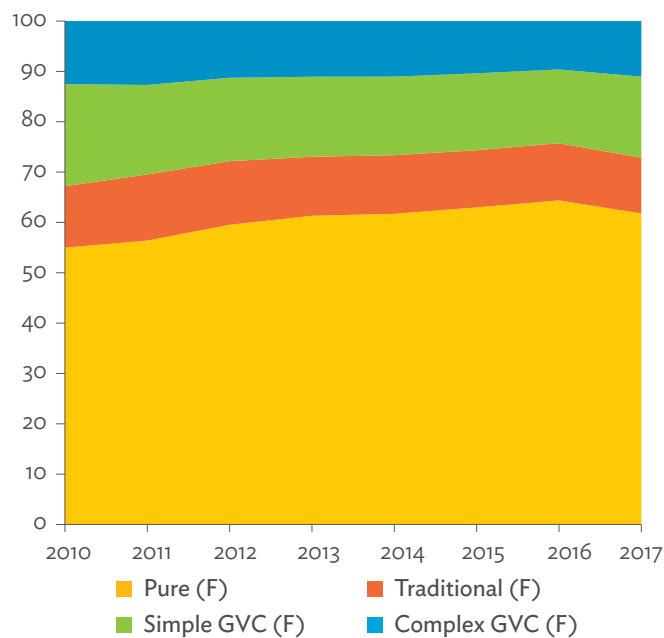
[Click here for figure data](#)

**Figure 6.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

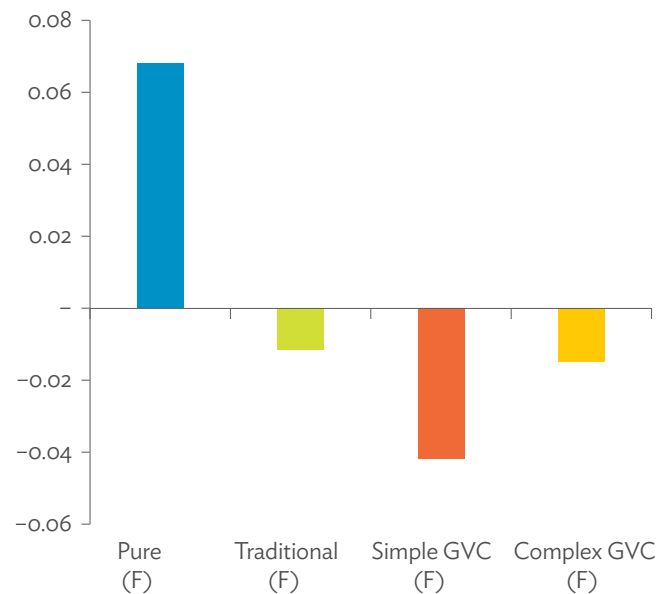
[Click here for figure data](#)

**Figure 6.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

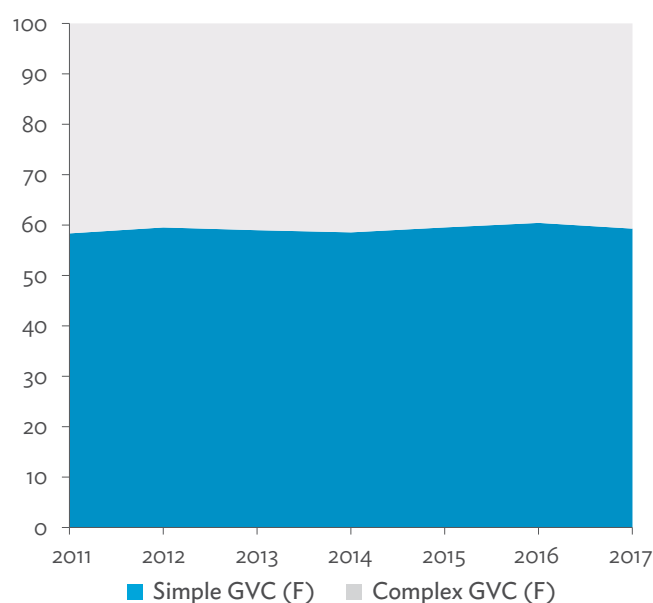
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

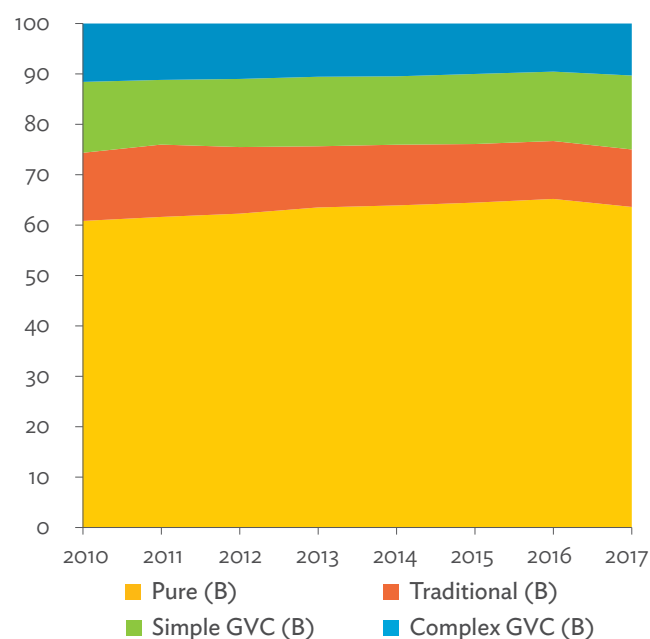


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

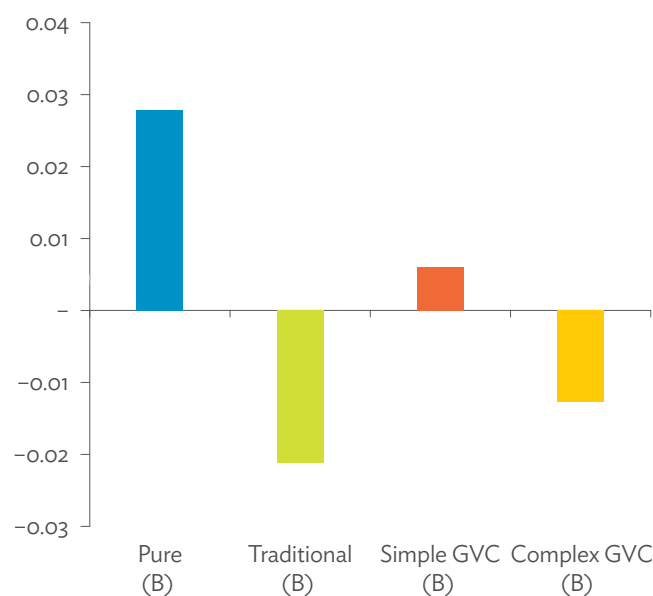


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



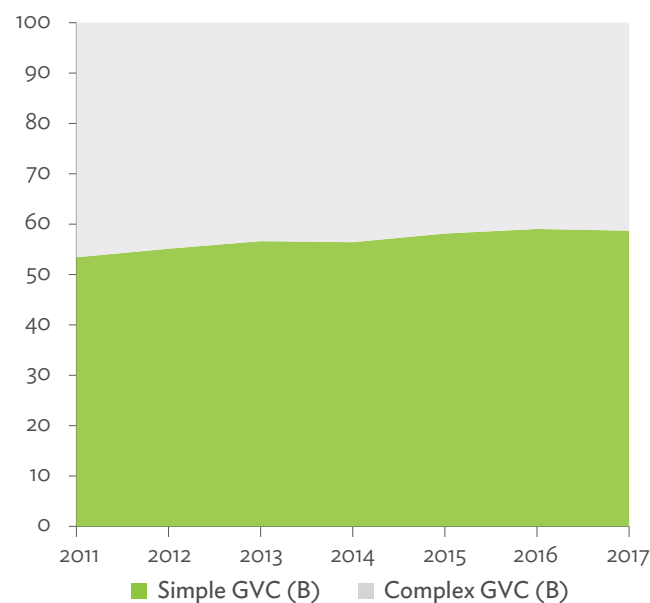
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

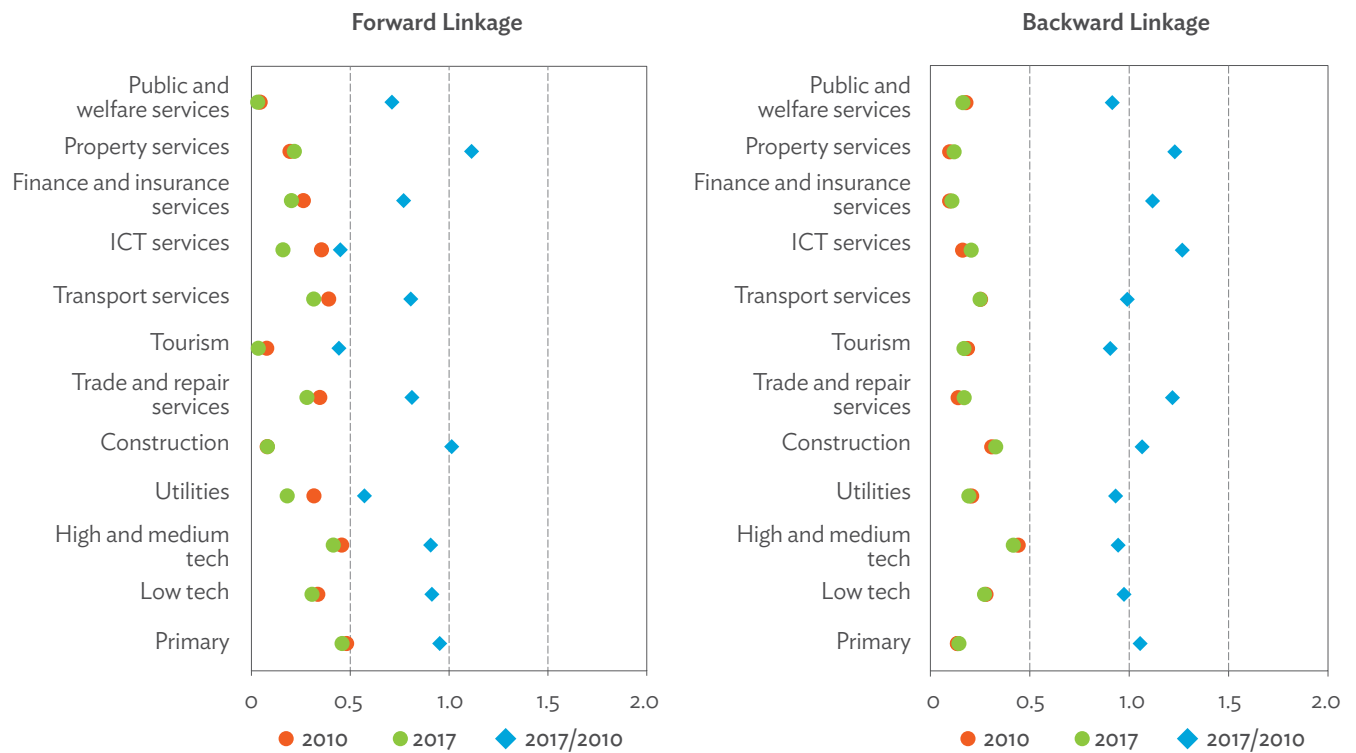


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

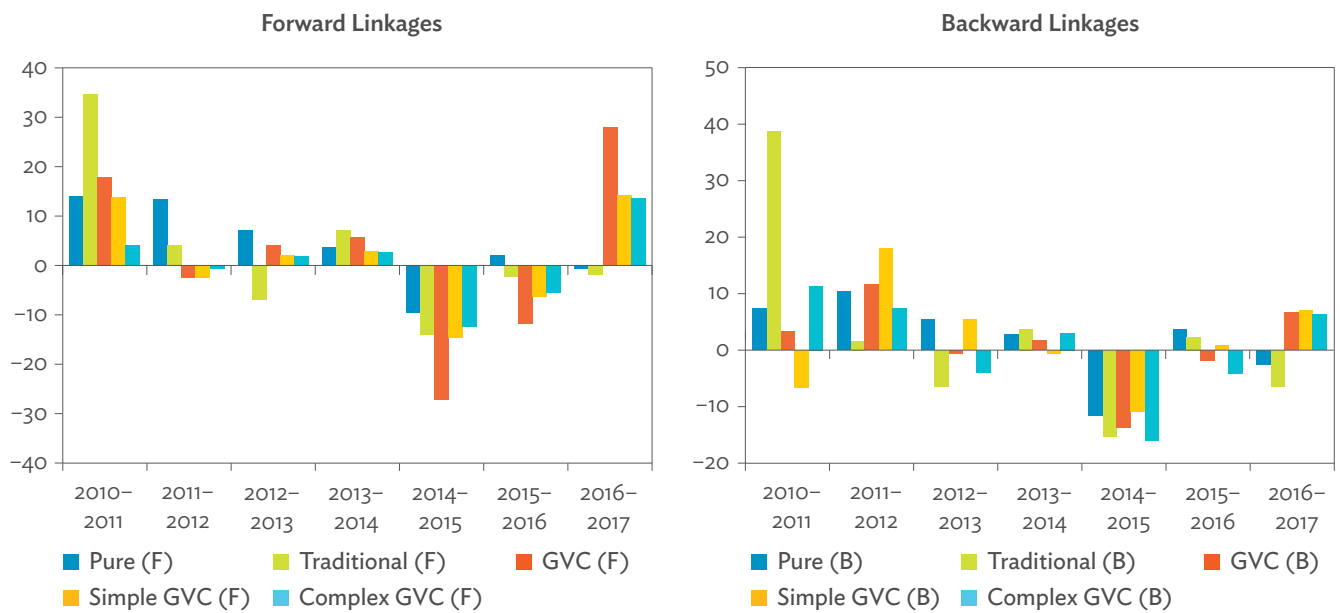


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

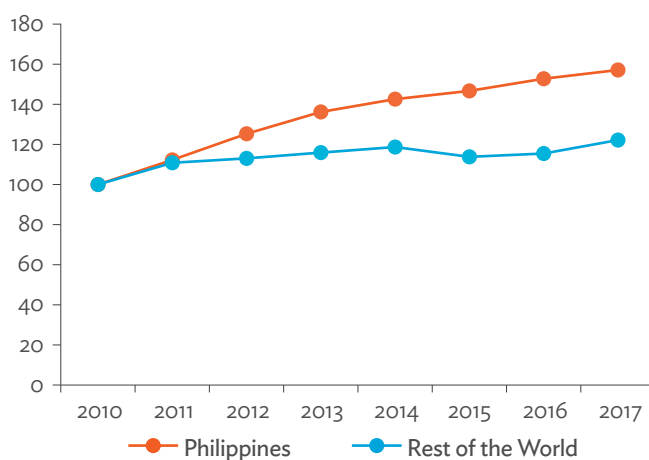
[Click here for figure data](#)

# 7.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Philippines

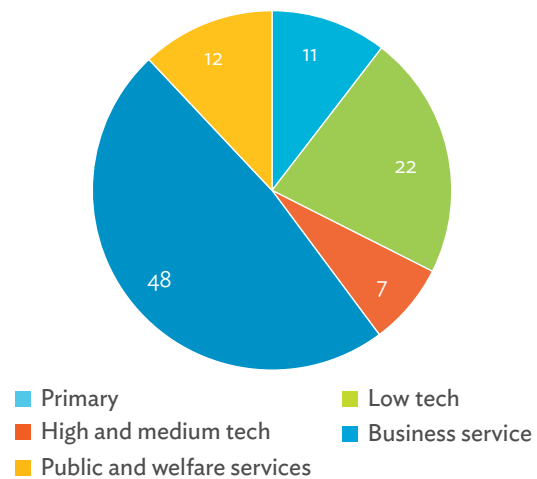
**Figure 7.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

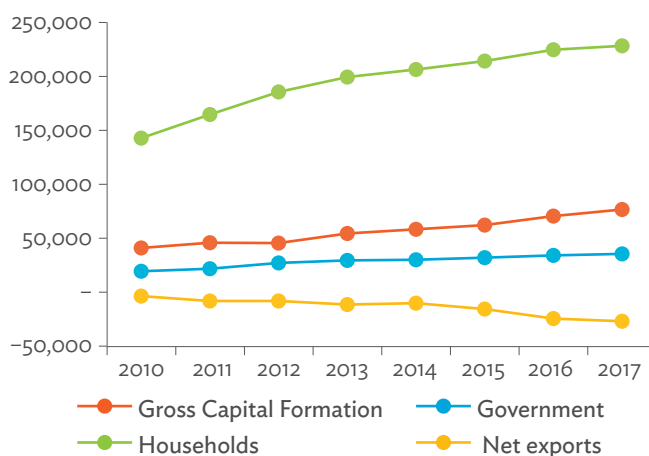
**Figure 7.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

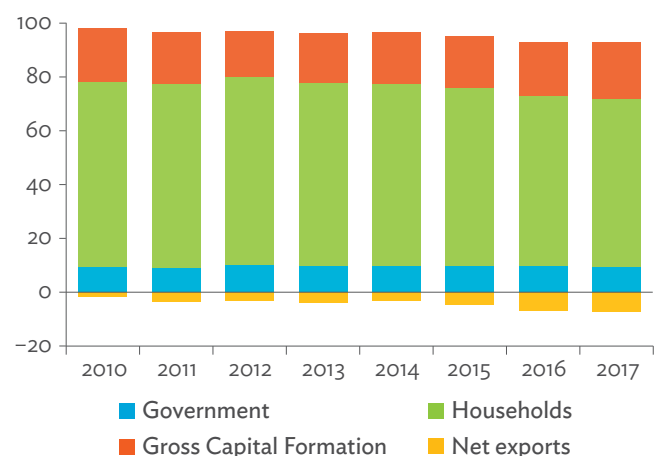


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

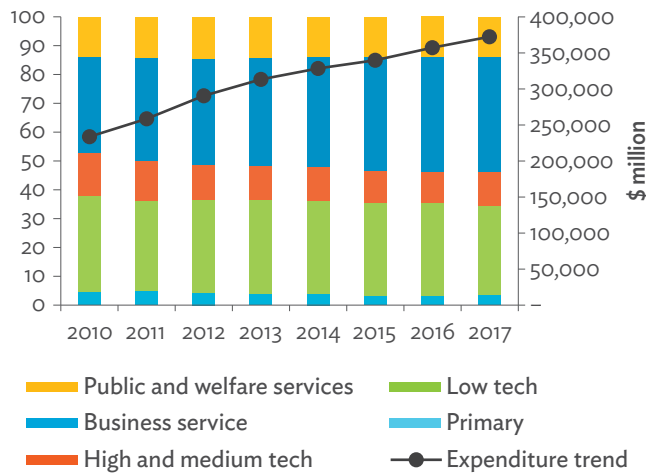
**Figure 7.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

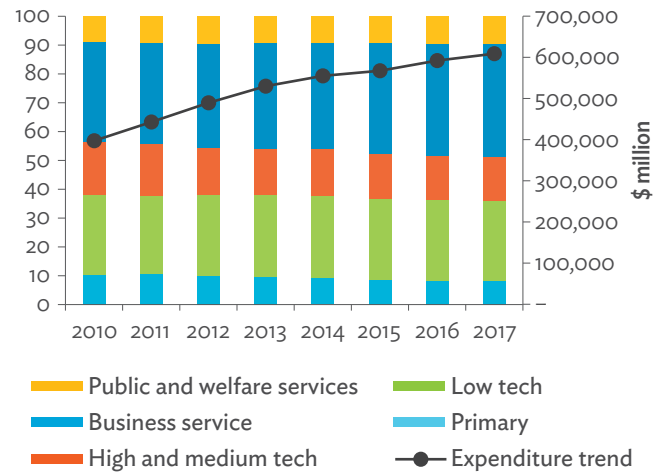


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

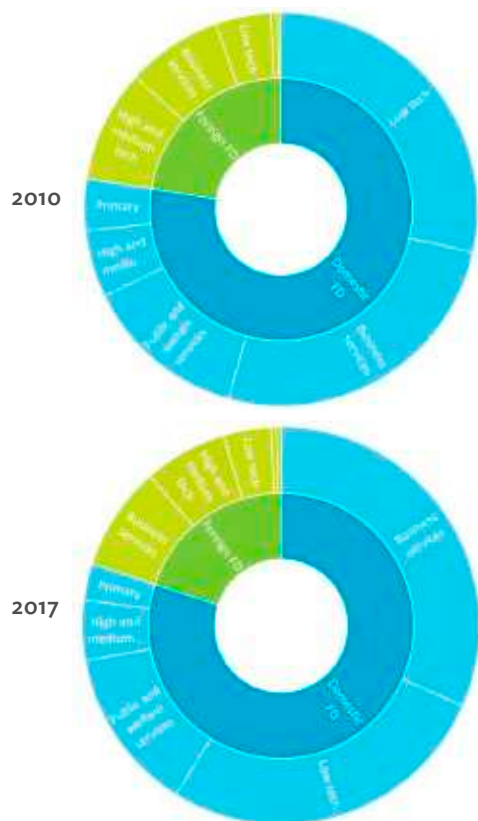


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

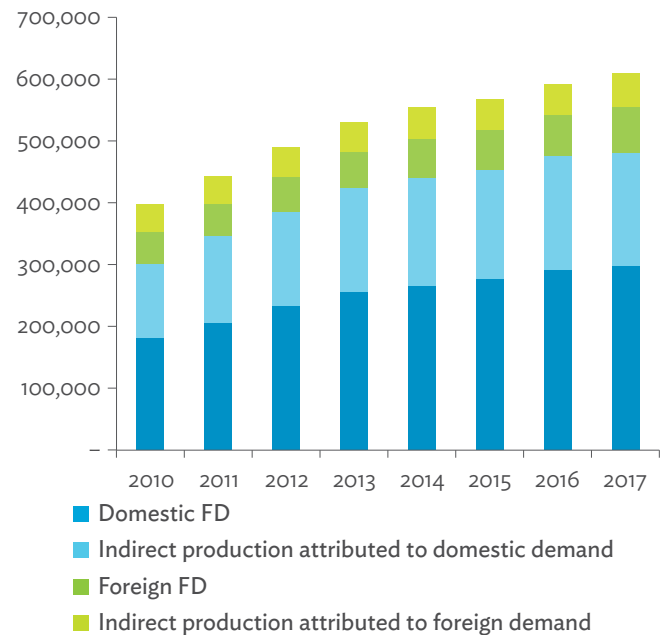


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

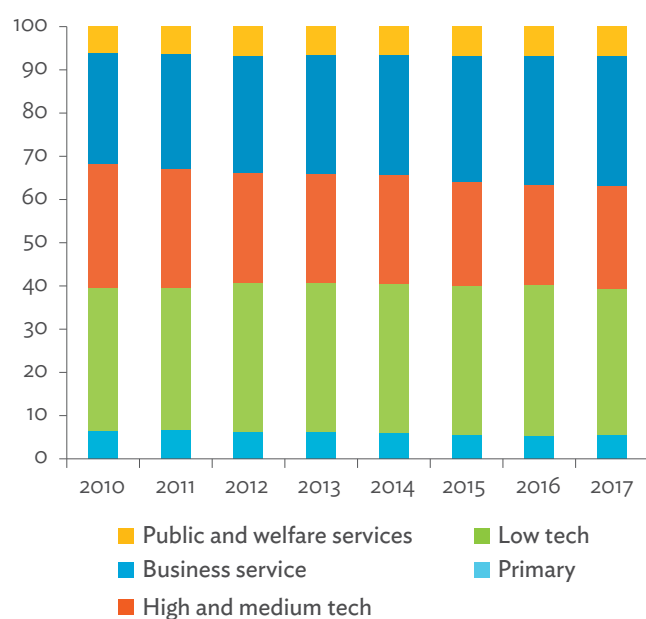


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

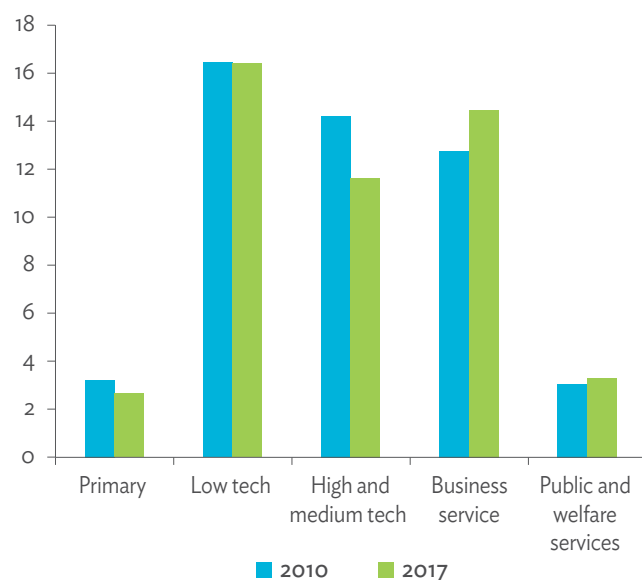
**Figure 7.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

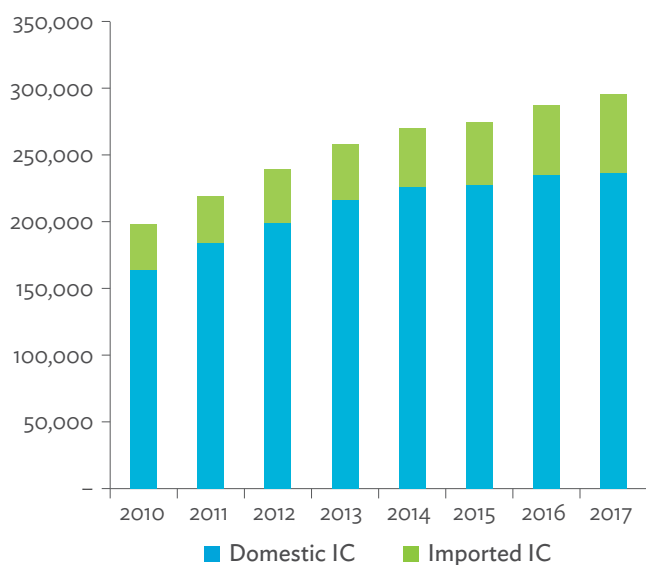
**Figure 7.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

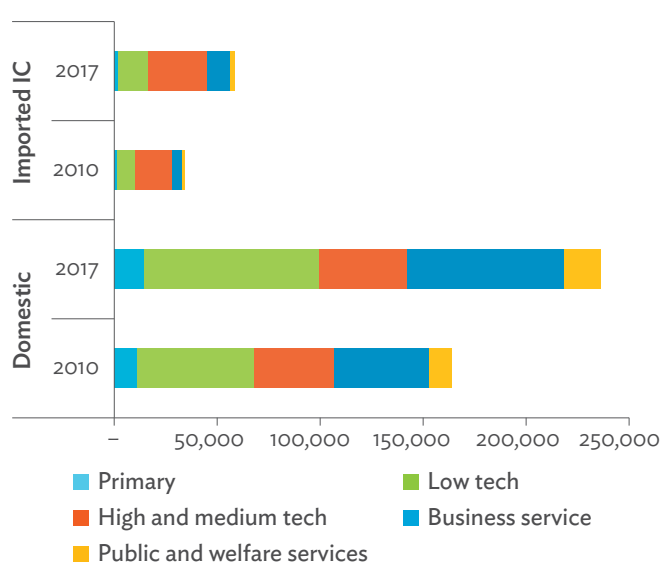


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**



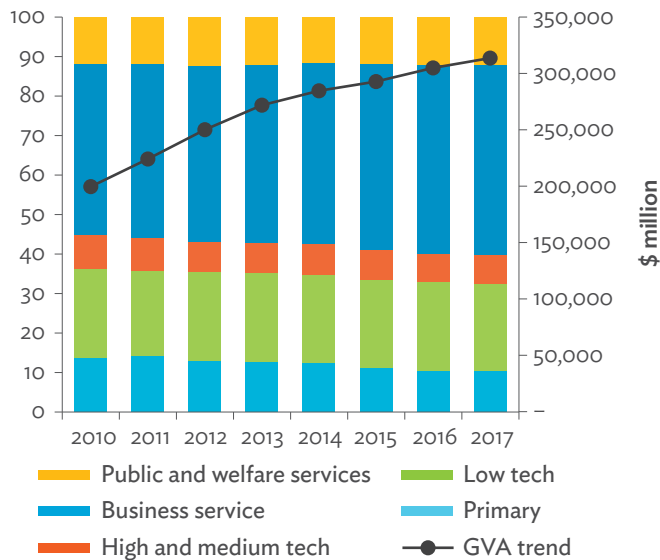
\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 7.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

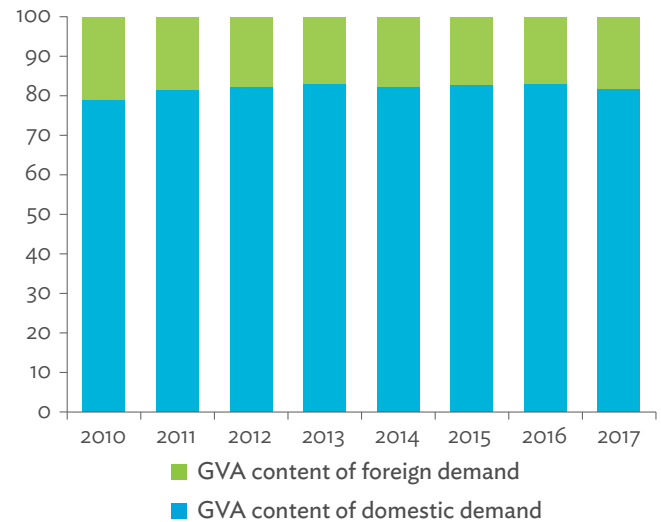


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

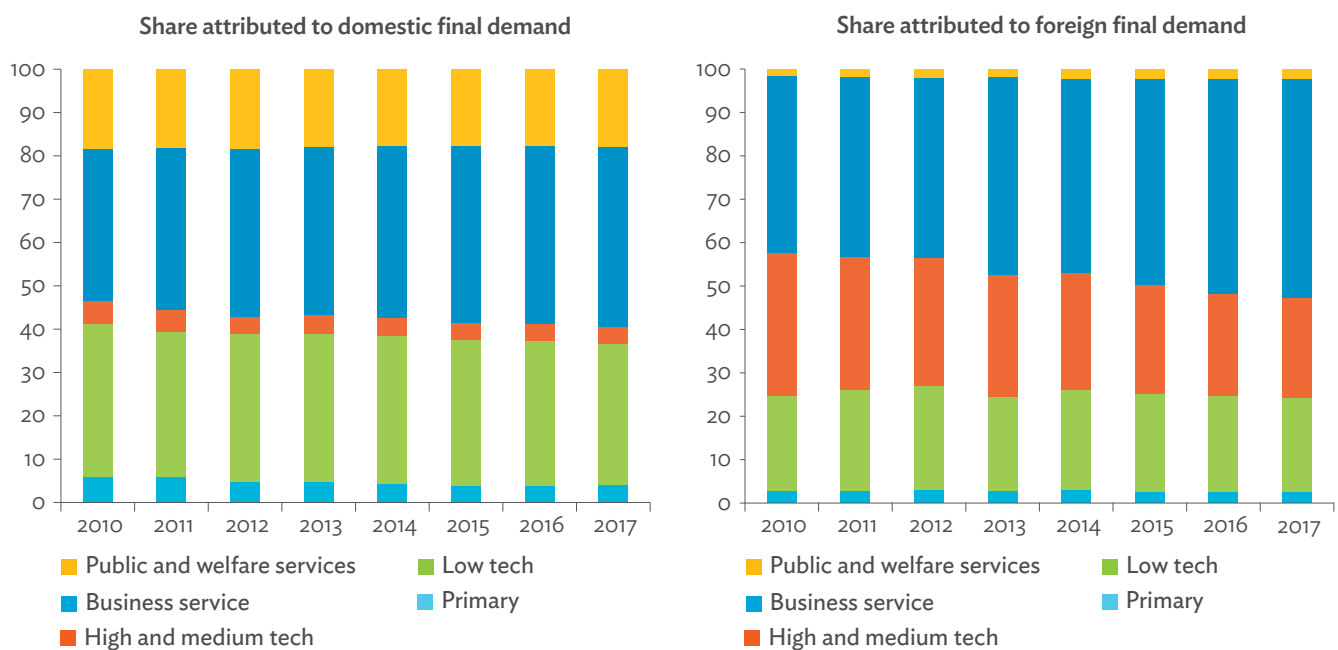


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 7.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.926	0.931	0.927	0.936	0.941	0.938	0.931	0.925
Mining and quarrying	0.878	0.895	0.876	0.876	0.871	0.875	0.868	0.857
Food, beverages, and tobacco	0.898	0.899	0.894	0.902	0.903	0.897	0.888	0.879
Textiles and textile products	0.764	0.802	0.806	0.804	0.792	0.789	0.769	0.753
Leather, leather products, and footwear	0.730	0.771	0.788	0.776	0.753	0.740	0.729	0.713
Wood and products of wood and cork	0.823	0.860	0.847	0.863	0.871	0.866	0.857	0.845
Pulp, paper, paper products, printing, and publishing	0.743	0.810	0.802	0.826	0.837	0.829	0.818	0.804
Coke, refined petroleum, and nuclear fuel	0.538	0.684	0.523	0.521	0.501	0.474	0.444	0.409
Chemicals and chemical products	0.685	0.722	0.696	0.762	0.792	0.793	0.782	0.763
Rubber and plastics	0.713	0.746	0.706	0.728	0.736	0.730	0.715	0.691
Other nonmetallic minerals	0.701	0.778	0.701	0.711	0.707	0.691	0.682	0.658
Basic metals and fabricated metal	0.602	0.692	0.583	0.581	0.561	0.541	0.515	0.483
Machinery, nec	0.682	0.719	0.665	0.665	0.650	0.626	0.608	0.579
Electrical and optical equipment	0.618	0.549	0.562	0.568	0.556	0.532	0.500	0.479
Transport equipment	0.758	0.753	0.741	0.747	0.739	0.724	0.707	0.688
Manufacturing, nec; recycling	0.685	0.805	0.791	0.800	0.797	0.786	0.772	0.755
Electricity, gas, and water supply	0.908	0.930	0.909	0.910	0.905	0.902	0.896	0.888
Construction	0.780	0.842	0.808	0.810	0.799	0.789	0.777	0.761
Sale, maintenance, and repair	0.907	0.901	0.902	0.904	0.900	0.894	0.889	0.883
Wholesale trade and commission trade	0.948	0.953	0.943	0.945	0.944	0.941	0.937	0.932
Retail trade	0.955	0.955	0.948	0.952	0.952	0.950	0.946	0.942
Hotels and restaurants	0.891	0.883	0.884	0.895	0.899	0.892	0.884	0.875
Inland transport	0.801	0.818	0.784	0.782	0.770	0.764	0.752	0.734
Water transport	0.802	0.828	0.777	0.775	0.763	0.744	0.751	0.729
Air transport	0.736	0.774	0.715	0.707	0.688	0.687	0.674	0.643
Other supporting and auxiliary transport activities	0.877	0.885	0.877	0.881	0.879	0.874	0.868	0.857
Post and telecommunications	0.903	0.890	0.892	0.897	0.896	0.891	0.886	0.879
Financial intermediation	0.953	0.953	0.951	0.956	0.957	0.955	0.952	0.948
Real estate activities	0.965	0.970	0.966	0.968	0.969	0.967	0.965	0.962
Renting of M&Eq and other business activities	0.939	0.939	0.936	0.941	0.942	0.940	0.937	0.932
Public administration and defense; compulsory social security	0.960	0.959	0.958	0.961	0.961	0.960	0.957	0.954
Education	0.943	0.953	0.951	0.954	0.953	0.951	0.948	0.944
Health and social work	0.885	0.889	0.887	0.904	0.914	0.909	0.904	0.897
Other community, social, and personal services	0.874	0.885	0.883	0.887	0.885	0.879	0.873	0.863
Private households with employed persons	0.970	0.970	0.971	0.974	0.974	0.973	0.970	0.967

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 7.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.074	0.069	0.073	0.064	0.059	0.062	0.069	0.075
Mining and quarrying	0.122	0.105	0.124	0.124	0.129	0.125	0.132	0.143
Food, beverages, and tobacco	0.102	0.101	0.106	0.098	0.097	0.103	0.112	0.121
Textiles and textile products	0.236	0.198	0.194	0.196	0.208	0.211	0.231	0.247
Leather, leather products, and footwear	0.270	0.229	0.212	0.224	0.247	0.260	0.271	0.287
Wood and products of wood and cork	0.177	0.140	0.153	0.137	0.129	0.134	0.143	0.155
Pulp, paper, paper products, printing, and publishing	0.257	0.190	0.198	0.174	0.163	0.171	0.182	0.196
Coke, refined petroleum, and nuclear fuel	0.462	0.316	0.477	0.479	0.499	0.526	0.556	0.591
Chemicals and chemical products	0.315	0.278	0.304	0.238	0.208	0.207	0.218	0.237
Rubber and plastics	0.287	0.254	0.294	0.272	0.264	0.270	0.285	0.309
Other nonmetallic minerals	0.299	0.222	0.299	0.289	0.293	0.309	0.318	0.342
Basic metals and fabricated metal	0.398	0.308	0.417	0.419	0.439	0.459	0.485	0.517
Machinery, nec	0.318	0.281	0.335	0.335	0.350	0.374	0.392	0.421
Electrical and optical equipment	0.382	0.451	0.438	0.432	0.444	0.468	0.500	0.521
Transport equipment	0.242	0.247	0.259	0.253	0.261	0.276	0.293	0.312
Manufacturing, nec; recycling	0.315	0.195	0.209	0.200	0.203	0.214	0.228	0.245
Electricity, gas, and water supply	0.092	0.070	0.091	0.090	0.095	0.098	0.104	0.112
Construction	0.220	0.158	0.192	0.190	0.201	0.211	0.223	0.239
Sale, maintenance, and repair	0.093	0.099	0.098	0.096	0.100	0.106	0.111	0.117
Wholesale trade and commission trade	0.052	0.047	0.057	0.055	0.056	0.059	0.063	0.068
Retail trade	0.045	0.045	0.052	0.048	0.048	0.050	0.054	0.058
Hotels and restaurants	0.109	0.117	0.116	0.105	0.101	0.108	0.116	0.125
Inland transport	0.199	0.182	0.216	0.218	0.230	0.236	0.248	0.266
Water transport	0.198	0.172	0.223	0.225	0.237	0.256	0.249	0.271
Air transport	0.264	0.226	0.285	0.293	0.312	0.313	0.326	0.357
Other supporting and auxiliary transport activities	0.123	0.115	0.123	0.119	0.121	0.126	0.132	0.143
Post and telecommunications	0.097	0.110	0.108	0.103	0.104	0.109	0.114	0.121
Financial intermediation	0.047	0.047	0.049	0.044	0.043	0.045	0.048	0.052
Real estate activities	0.035	0.030	0.034	0.032	0.031	0.033	0.035	0.038
Renting of M&Eq and other business activities	0.061	0.061	0.064	0.059	0.058	0.060	0.063	0.068
Public administration and defense; compulsory social security	0.040	0.041	0.042	0.039	0.039	0.040	0.043	0.046
Education	0.057	0.047	0.049	0.046	0.047	0.049	0.052	0.056
Health and social work	0.115	0.111	0.113	0.096	0.086	0.091	0.096	0.103
Other community, social, and personal services	0.126	0.115	0.117	0.113	0.115	0.121	0.127	0.137
Private households with employed persons	0.030	0.030	0.029	0.026	0.026	0.027	0.030	0.033

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 7.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.464	1.474	1.468	1.491	1.512	1.507	1.524	1.514
Mining and quarrying	1.402	1.439	1.400	1.406	1.406	1.370	1.355	1.338
Food, beverages, and tobacco	2.032	2.039	2.036	2.058	2.071	2.066	2.070	2.051
Textiles and textile products	1.716	1.804	1.816	1.809	1.784	1.733	1.731	1.697
Leather, leather products, and footwear	1.803	1.906	1.945	1.919	1.877	1.837	1.787	1.749
Wood and products of wood and cork	1.912	1.982	1.959	2.001	2.033	2.019	2.008	1.988
Pulp, paper, paper products, printing, and publishing	1.942	2.100	2.087	2.165	2.213	2.196	2.176	2.147
Coke, refined petroleum, and nuclear fuel	1.513	1.808	1.496	1.492	1.445	1.381	1.321	1.262
Chemicals and chemical products	1.803	1.896	1.845	2.017	2.103	2.063	2.041	2.006
Rubber and plastics	1.904	1.979	1.899	1.958	1.990	1.964	1.936	1.893
Other nonmetallic minerals	1.850	2.042	1.879	1.900	1.895	1.878	1.820	1.776
Basic metals and fabricated metal	1.859	2.086	1.838	1.823	1.776	1.720	1.664	1.606
Machinery, nec	1.918	2.007	1.884	1.874	1.838	1.816	1.764	1.716
Electrical and optical equipment	2.043	1.940	1.965	1.960	1.911	1.845	1.795	1.729
Transport equipment	2.037	2.026	1.991	2.000	1.989	1.954	1.920	1.884
Manufacturing, nec; recycling	1.781	2.058	2.030	2.052	2.055	2.028	2.007	1.972
Electricity, gas, and water supply	1.401	1.441	1.401	1.398	1.393	1.382	1.372	1.359
Construction	1.555	1.686	1.605	1.594	1.565	1.540	1.512	1.482
Sale, maintenance, and repair	1.624	1.617	1.617	1.614	1.608	1.595	1.582	1.569
Wholesale trade and commission trade	1.504	1.507	1.489	1.491	1.494	1.487	1.482	1.474
Retail trade	1.432	1.441	1.429	1.432	1.435	1.429	1.425	1.418
Hotels and restaurants	2.087	2.073	2.078	2.104	2.122	2.113	2.111	2.092
Inland transport	1.603	1.642	1.571	1.556	1.526	1.500	1.473	1.441
Water transport	1.665	1.731	1.633	1.607	1.564	1.573	1.511	1.480
Air transport	1.930	2.031	1.913	1.889	1.846	1.811	1.778	1.735
Other supporting and auxiliary transport activities	1.587	1.625	1.608	1.611	1.608	1.592	1.576	1.559
Post and telecommunications	1.469	1.463	1.463	1.462	1.457	1.442	1.430	1.415
Financial intermediation	1.415	1.439	1.435	1.434	1.435	1.431	1.427	1.421
Real estate activities	1.249	1.260	1.253	1.254	1.258	1.260	1.261	1.256
Renting of M&Eq and other business activities	1.526	1.549	1.543	1.549	1.554	1.541	1.537	1.528
Public administration and defense; compulsory social security	1.457	1.464	1.460	1.461	1.465	1.460	1.458	1.452
Education	1.246	1.270	1.267	1.269	1.273	1.269	1.263	1.256
Health and social work	1.701	1.716	1.713	1.755	1.786	1.775	1.767	1.753
Other community, social, and personal services	1.607	1.644	1.640	1.652	1.657	1.643	1.629	1.612
Private households with employed persons	1.158	1.160	1.161	1.163	1.170	1.166	1.171	1.167

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

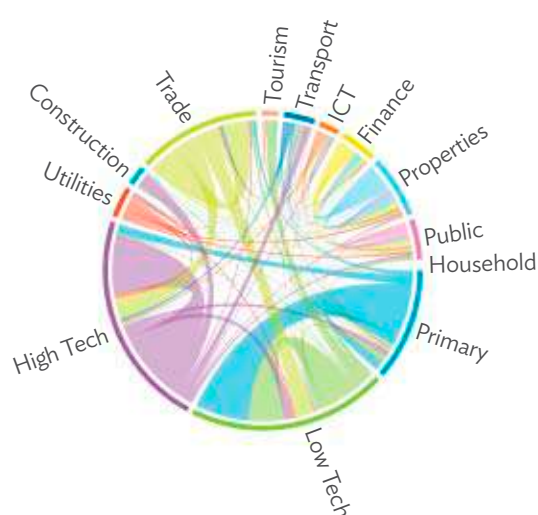
Source: Asian Development Bank Multi-Regional Input-Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

# 7.2

## Philippines

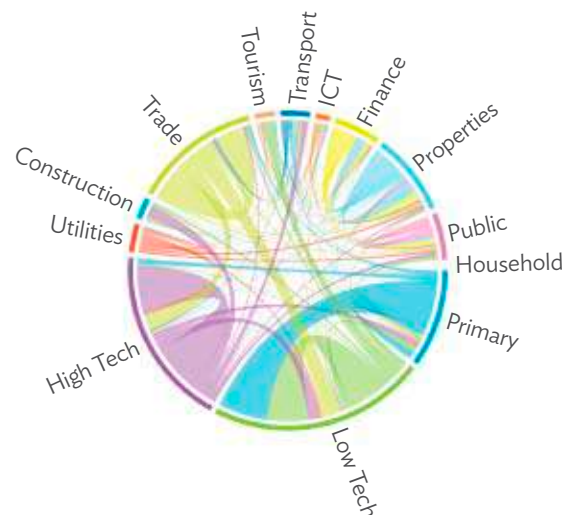
**Figure 7.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

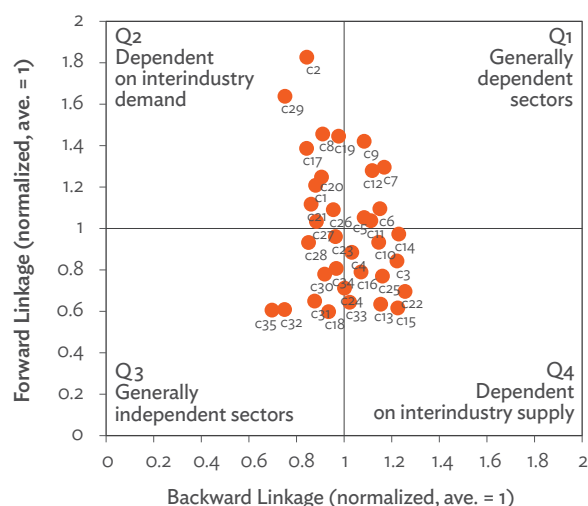
**Figure 7.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

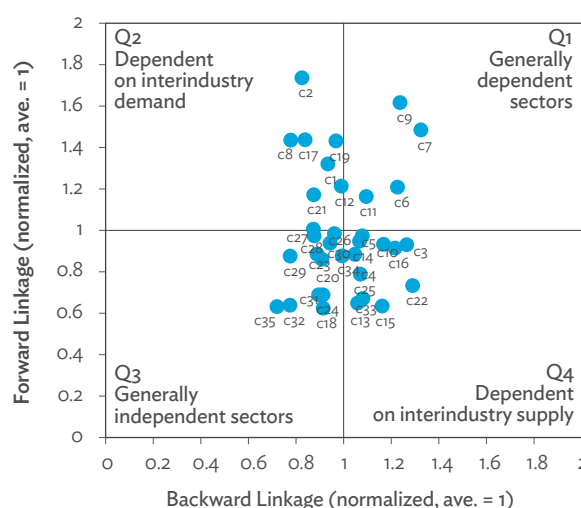
**Figure 7.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.2.2b: Backward and Forward Linkages by Industry, 2017**

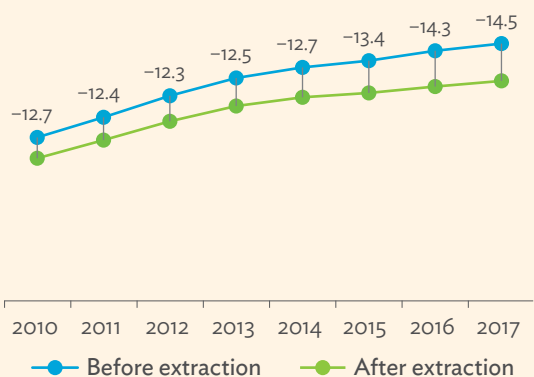


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

### Box 7: Hypothetical Extraction of Renting of Machinery and Equipment and Other Business Activities Industry in the Philippines

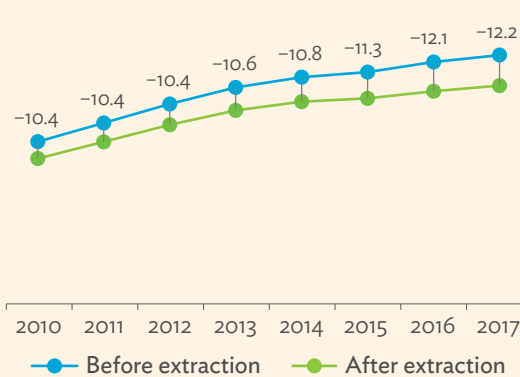
**Figure 7.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

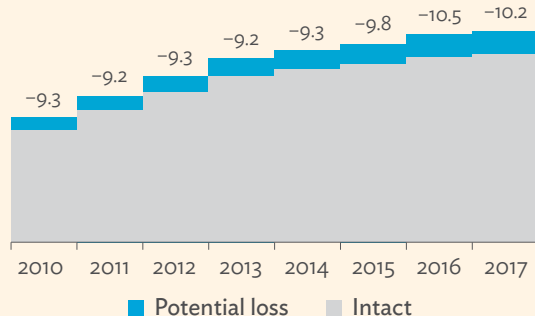
**Figure 7.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

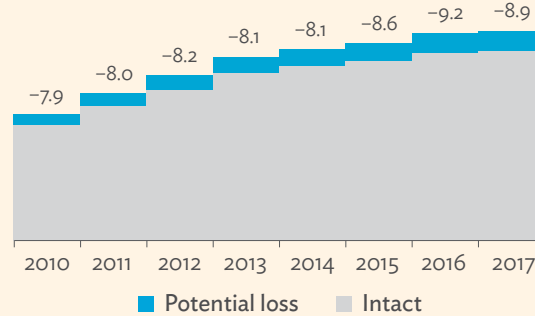
**Figure 7.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

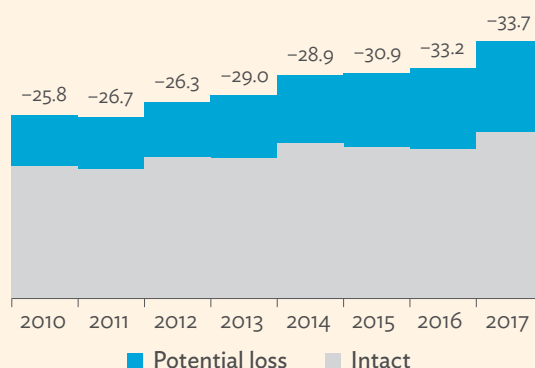
**Figure 7.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

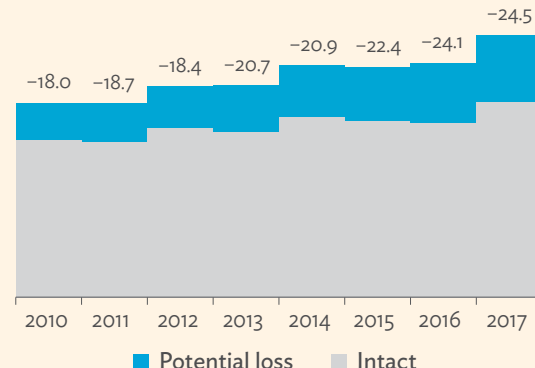
**Figure 7.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 7.2.1: Input-Output Backward Linkage**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.880	0.855	0.874	0.881	0.895	0.904	0.925	0.933
Mining and quarrying	0.843	0.835	0.833	0.831	0.832	0.821	0.822	0.824
Food, beverages, and tobacco	1.222	1.183	1.211	1.216	1.226	1.239	1.256	1.264
Textiles and textile products	1.032	1.047	1.081	1.069	1.056	1.039	1.050	1.046
Leather, leather products, and footwear	1.084	1.106	1.158	1.134	1.111	1.101	1.084	1.078
Wood and products of wood and cork	1.150	1.150	1.166	1.183	1.204	1.210	1.219	1.225
Pulp, paper, paper products, printing, and publishing	1.168	1.218	1.242	1.279	1.310	1.317	1.320	1.323
Coke, refined petroleum, and nuclear fuel	0.910	1.049	0.890	0.882	0.856	0.828	0.801	0.777
Chemicals and chemical products	1.084	1.100	1.098	1.192	1.245	1.237	1.239	1.236
Rubber and plastics	1.145	1.148	1.130	1.157	1.178	1.177	1.175	1.167
Other nonmetallic minerals	1.112	1.184	1.118	1.123	1.122	1.126	1.104	1.094
Basic metals and fabricated metal	1.118	1.210	1.094	1.078	1.052	1.031	1.009	0.989
Machinery, nec	1.153	1.164	1.121	1.107	1.088	1.088	1.070	1.057
Electrical and optical equipment	1.229	1.125	1.169	1.158	1.132	1.106	1.089	1.066
Transport equipment	1.225	1.175	1.185	1.182	1.178	1.171	1.165	1.161
Manufacturing, nec; recycling	1.071	1.193	1.208	1.213	1.217	1.216	1.218	1.215
Electricity, gas, and water supply	0.842	0.836	0.834	0.826	0.825	0.828	0.832	0.838
Construction	0.935	0.978	0.955	0.942	0.927	0.923	0.918	0.913
Sale, maintenance, and repair	0.977	0.938	0.962	0.954	0.952	0.956	0.960	0.967
Wholesale trade and commission trade	0.905	0.874	0.886	0.881	0.884	0.891	0.899	0.908
Retail trade	0.861	0.836	0.851	0.846	0.850	0.857	0.865	0.874
Hotels and restaurants	1.255	1.202	1.237	1.244	1.256	1.267	1.281	1.289
Inland transport	0.964	0.952	0.935	0.919	0.904	0.899	0.894	0.888
Water transport	1.001	1.004	0.972	0.950	0.926	0.943	0.917	0.912
Air transport	1.161	1.178	1.138	1.116	1.093	1.086	1.079	1.069
Other supporting and auxiliary transport activities	0.954	0.942	0.957	0.952	0.952	0.954	0.956	0.961
Post and telecommunications	0.884	0.849	0.871	0.864	0.862	0.865	0.867	0.872
Financial intermediation	0.851	0.834	0.854	0.848	0.850	0.858	0.866	0.876
Real estate activities	0.751	0.731	0.746	0.741	0.745	0.755	0.765	0.774
Renting of M&Eq and other business activities	0.918	0.899	0.918	0.916	0.920	0.924	0.932	0.942
Public administration and defense; compulsory social security	0.877	0.849	0.869	0.864	0.868	0.875	0.884	0.895
Education	0.750	0.737	0.754	0.750	0.754	0.760	0.766	0.774
Health and social work	1.023	0.995	1.019	1.037	1.057	1.064	1.072	1.080
Other community, social, and personal services	0.967	0.953	0.976	0.976	0.981	0.985	0.988	0.993
Private households with employed persons	0.697	0.673	0.691	0.688	0.693	0.699	0.710	0.719
	lowest linkage	<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div> highest linkage		

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 7.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.212	1.250	1.289	1.301	1.320	1.329	1.332	1.331
Mining and quarrying	1.848	1.977	1.880	1.870	1.843	1.808	1.772	1.759
Food, beverages, and tobacco	0.836	0.887	0.894	0.901	0.905	0.914	0.928	0.930
Textiles and textile products	0.880	0.889	0.908	0.902	0.896	0.893	0.892	0.883
Leather, leather products, and footwear	1.053	1.097	1.122	1.057	1.001	0.991	0.986	0.974
Wood and products of wood and cork	1.096	1.130	1.185	1.201	1.215	1.217	1.212	1.216
Pulp, paper, paper products, printing, and publishing	1.302	1.419	1.469	1.464	1.491	1.503	1.508	1.500
Coke, refined petroleum, and nuclear fuel	1.466	1.528	1.448	1.475	1.475	1.462	1.455	1.450
Chemicals and chemical products	1.431	1.500	1.524	1.588	1.626	1.637	1.645	1.636
Rubber and plastics	0.930	0.942	0.934	0.934	0.934	0.938	0.942	0.932
Other nonmetallic minerals	1.037	1.132	1.129	1.150	1.169	1.175	1.174	1.169
Basic metals and fabricated metal	1.285	1.261	1.332	1.273	1.233	1.231	1.228	1.221
Machinery, nec	0.622	0.635	0.635	0.674	0.638	0.643	0.640	0.640
Electrical and optical equipment	0.970	1.032	1.043	1.039	1.024	1.015	0.981	0.948
Transport equipment	0.603	0.612	0.614	0.612	0.614	0.618	0.618	0.625
Manufacturing, nec; recycling	0.782	0.867	0.889	0.901	0.915	0.926	0.923	0.914
Electricity, gas, and water supply	1.396	1.462	1.396	1.424	1.453	1.452	1.452	1.451
Construction	0.585	0.595	0.598	0.598	0.601	0.605	0.607	0.615
Sale, maintenance, and repair	1.456	1.487	1.471	1.474	1.473	1.419	1.404	1.445
Wholesale trade and commission trade	1.253	0.857	0.847	0.841	0.847	0.850	0.856	0.858
Retail trade	1.119	1.211	1.175	1.182	1.187	1.190	1.184	1.178
Hotels and restaurants	0.686	0.703	0.706	0.709	0.713	0.718	0.724	0.728
Inland transport	0.957	0.885	0.868	0.873	0.878	0.878	0.881	0.883
Water transport	0.702	0.660	0.660	0.663	0.670	0.673	0.676	0.682
Air transport	0.761	0.758	0.764	0.764	0.767	0.772	0.777	0.784
Other supporting and auxiliary transport activities	1.091	1.076	1.107	1.039	0.989	0.987	0.993	0.985
Post and telecommunications	1.033	0.967	0.947	0.971	0.998	0.998	1.005	1.007
Financial intermediation	0.928	0.991	0.981	0.968	0.963	0.954	0.982	0.974
Real estate activities	1.654	0.924	0.923	0.883	0.857	0.856	0.861	0.874
Renting of M&Eq and other business activities	0.771	0.929	0.914	0.921	0.931	0.939	0.944	0.938
Public administration and defense; compulsory social security	0.637	0.644	0.647	0.648	0.652	0.670	0.662	0.682
Education	0.596	0.606	0.610	0.610	0.614	0.619	0.621	0.630
Health and social work	0.632	0.642	0.644	0.643	0.646	0.652	0.653	0.663
Other community, social, and personal services	0.799	0.843	0.843	0.844	0.849	0.858	0.868	0.875
Private households with employed persons	0.592	0.602	0.606	0.606	0.609	0.612	0.615	0.623
	lowest linkage	<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div> highest linkage		

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.

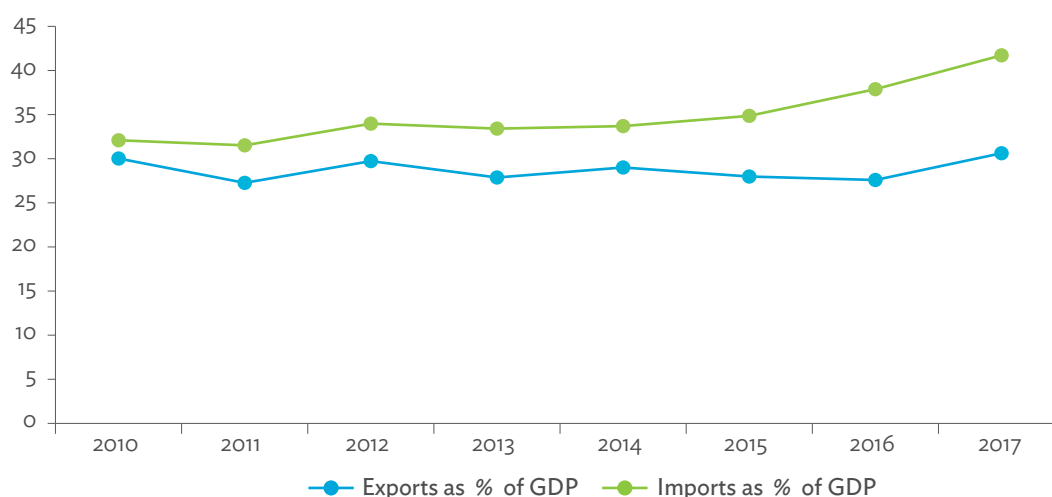


# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 7.3

### Philippines

**Figure 7.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

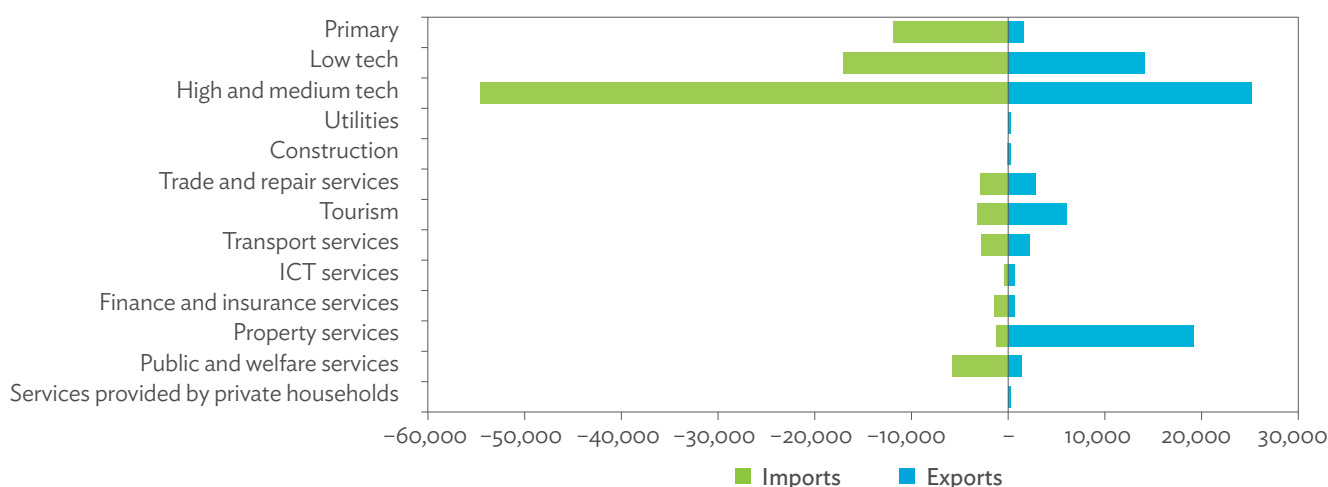


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

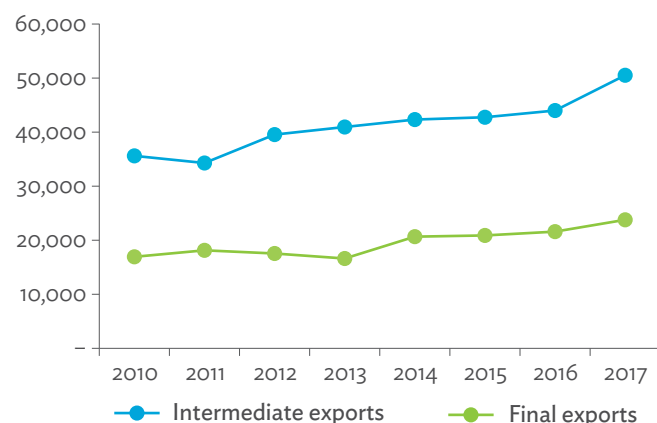
**Figure 7.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

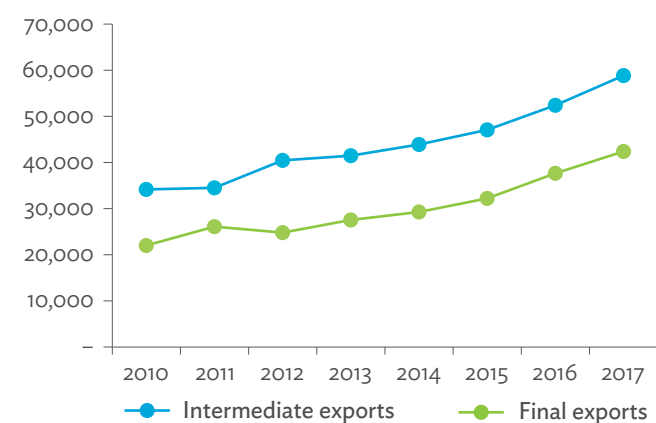
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

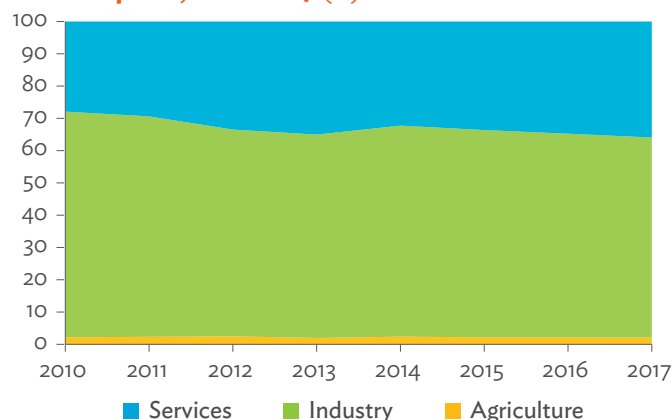
\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

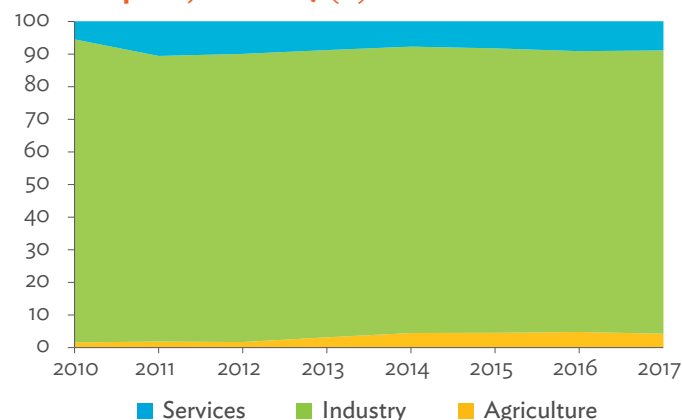
[Click here for figure data](#)**Figure 7.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

\$ = United States dollar.

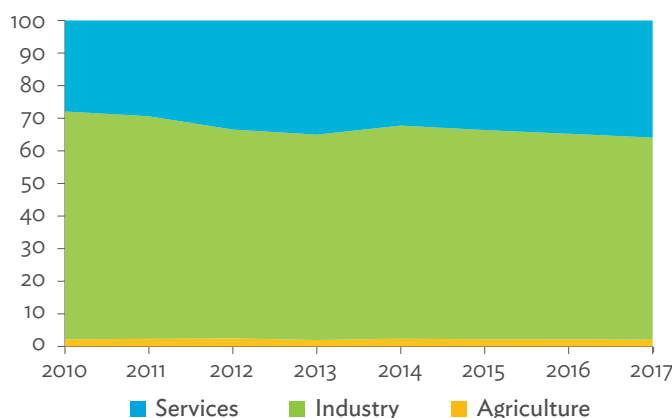
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 7.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**

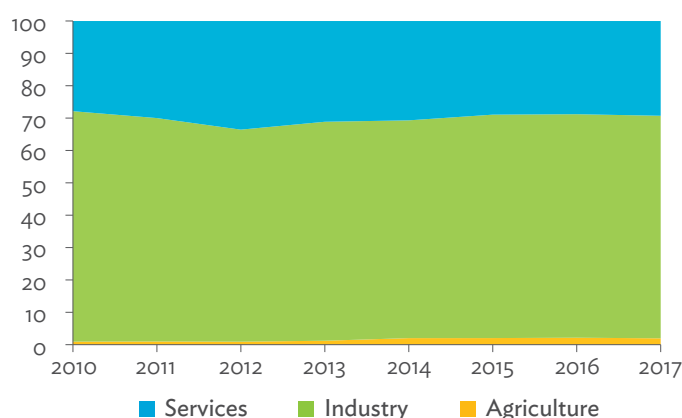
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 7.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 7.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**

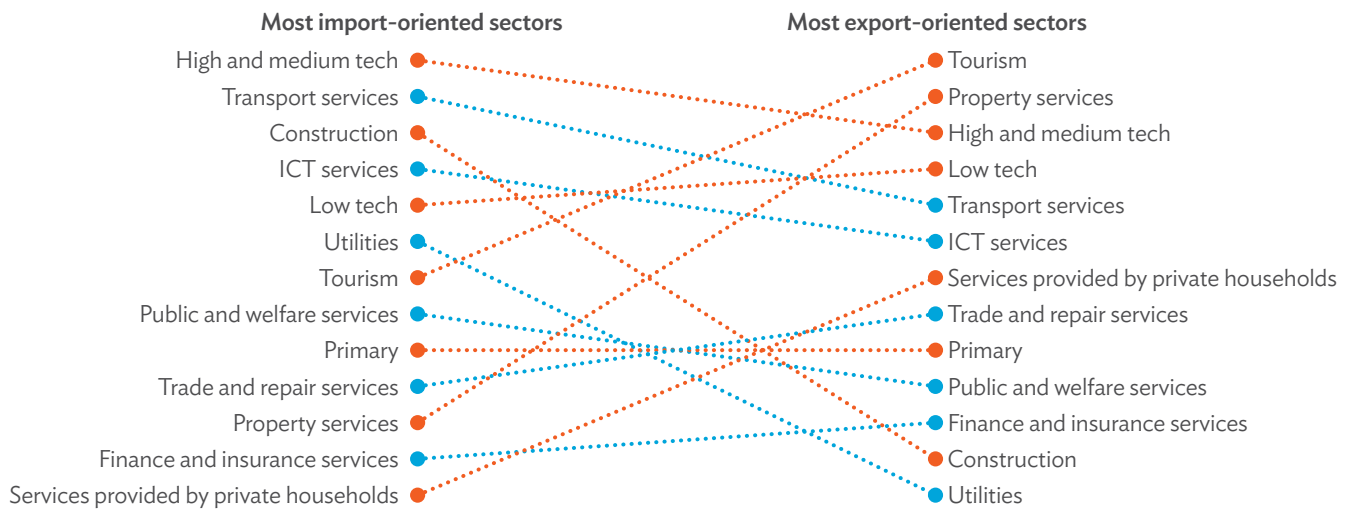
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 7.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

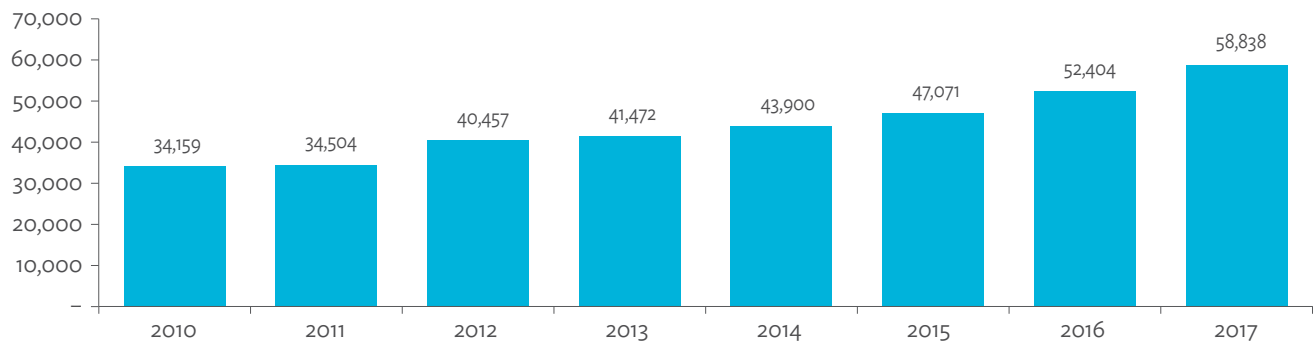


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

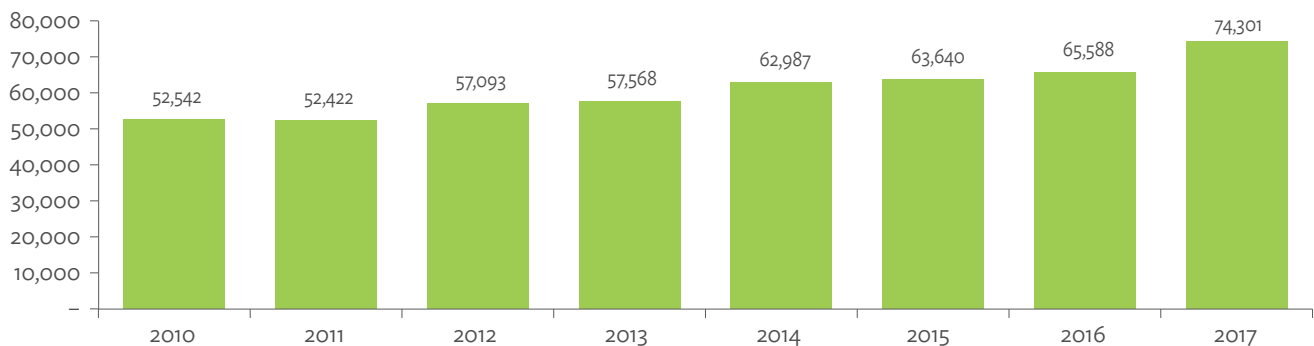


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

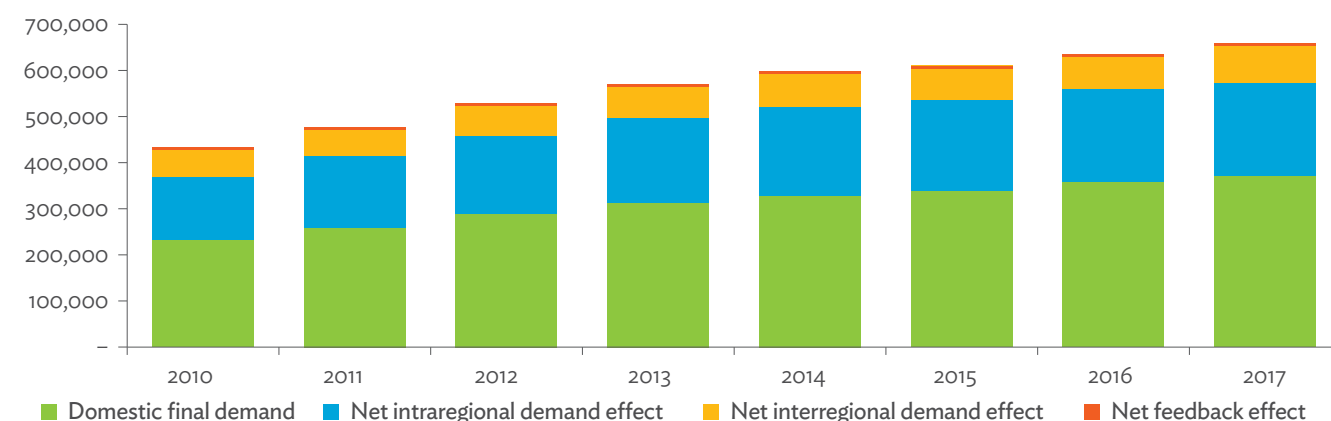
**Figure 7.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**



\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

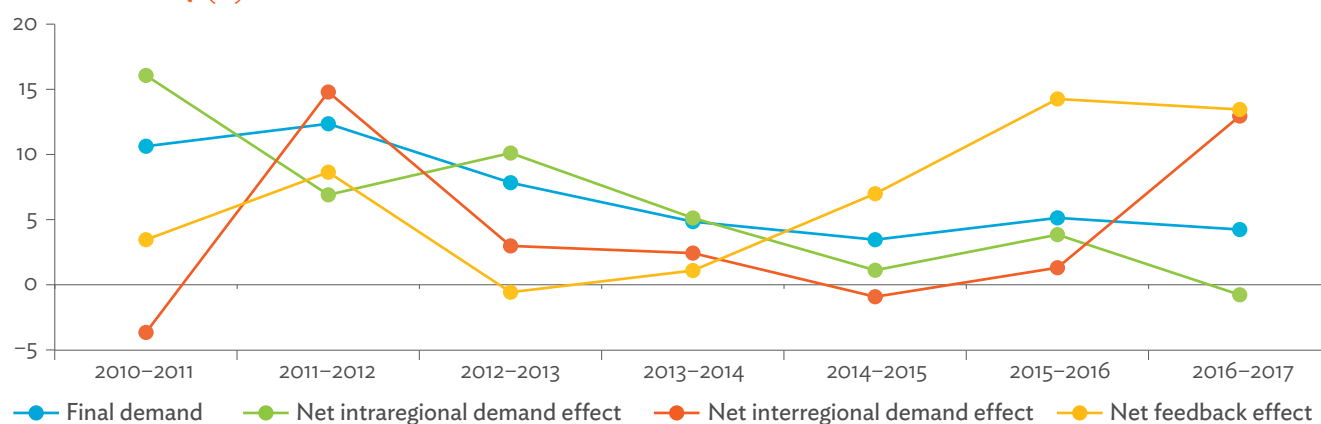
[Click here for figure data](#)

**Figure 7.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

\$ = United States dollar.

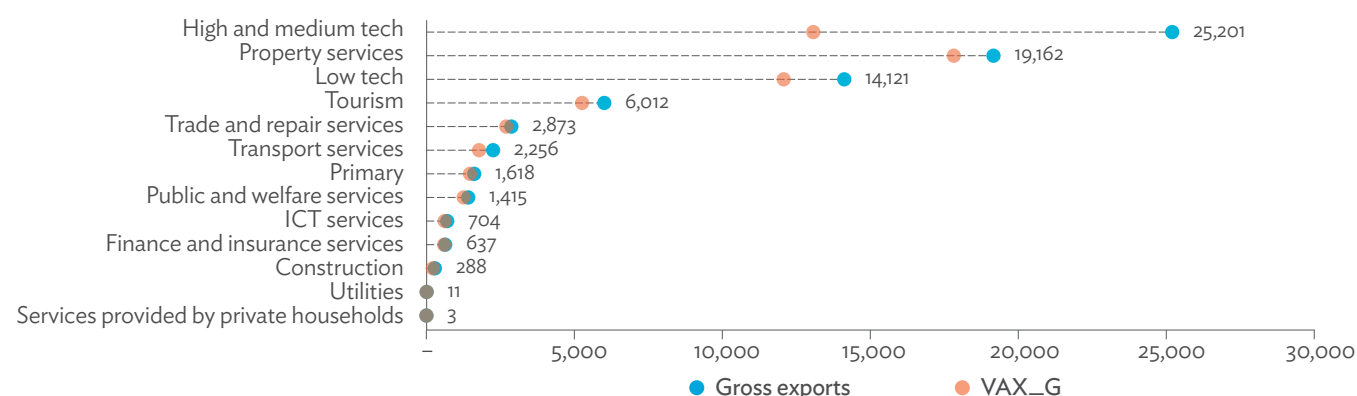
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

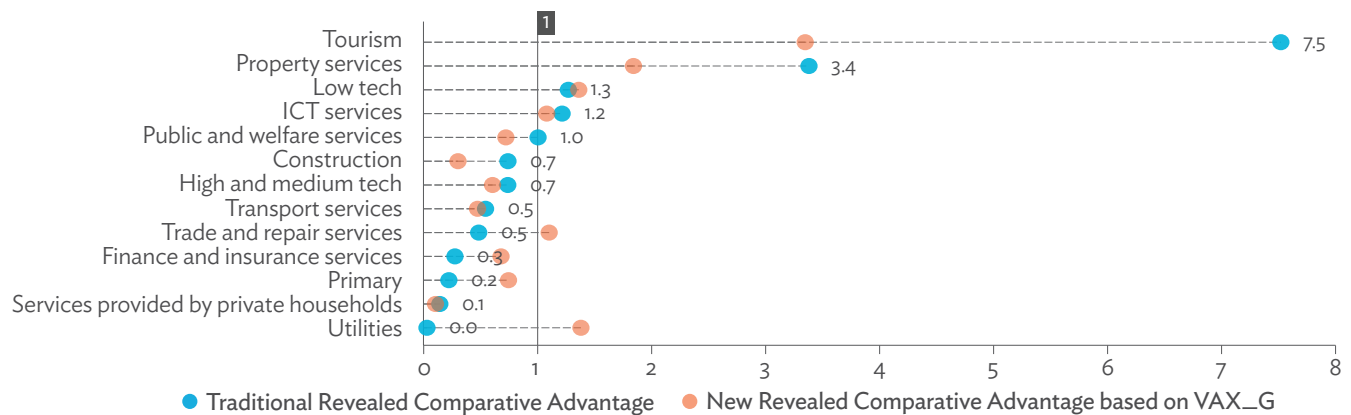
**Figure 7.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Table 7.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	11,245	13,149	12,261	12,737	12,677	11,611	11,855	12,714
Low tech	77,238	80,961	94,063	101,344	106,323	109,060	114,389	115,920
High and medium tech	34,596	35,228	35,111	36,827	38,307	37,813	39,366	43,298
Business service	78,651	93,060	107,345	118,193	125,823	134,426	141,884	149,334
Personal service	32,021	36,202	41,770	44,208	45,355	46,934	49,800	51,167
Intraregional effects (M1)								
Primary	25,911	30,338	31,915	34,097	35,268	32,527	32,302	32,521
Low tech	28,606	34,690	39,322	43,065	44,761	45,623	48,259	46,633
High and medium tech	29,275	33,870	33,053	38,360	41,510	40,928	40,729	41,121
Business service	48,074	54,243	58,991	64,495	67,863	71,761	77,022	76,270
Personal service	3,200	3,623	4,302	4,509	4,582	5,306	5,376	5,575

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 7.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	3,978	4,079	4,571	4,611	4,873	4,346	4,106	4,810
Low tech	9,322	9,582	11,036	11,472	12,279	12,136	12,042	13,669
High and medium tech	25,381	24,169	28,882	27,396	26,376	24,806	24,071	27,063
Business service	24,235	22,683	24,895	27,929	29,395	30,811	32,761	37,003
Personal service	1,105	1,167	1,418	1,506	1,761	1,900	1,987	2,128
Feedback effects (M3)								
Primary	3.00	3.05	3.52	3.45	3.63	3.61	3.99	4.71
Low tech	6.87	7.14	8.31	8.27	8.61	9.53	10.81	12.35
High and medium tech	46.09	50.06	53.17	50.61	49.67	50.72	55.66	63.03
Business service	21.73	20.12	22.17	24.30	25.49	29.47	36.06	40.85
Personal service	0.66	0.68	0.88	0.92	1.09	1.36	1.68	1.79

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 7.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.4639	0.4743	0.4684	0.4914	0.5116	0.5073	0.5243	0.5140
Mining and quarrying	0.4021	0.4389	0.3998	0.4063	0.4058	0.3696	0.3551	0.3376
Food, beverages, and tobacco	1.0320	1.0392	1.0358	1.0579	1.0714	1.0660	1.0698	1.0511
Textiles and textile products	0.7161	0.8044	0.8164	0.8092	0.7836	0.7333	0.7305	0.6971
Leather, leather products, and footwear	0.8027	0.9065	0.9452	0.9187	0.8772	0.8371	0.7868	0.7488
Wood and products of wood and cork	0.9123	0.9821	0.9593	1.0011	1.0332	1.0191	1.0084	0.9883
Pulp, paper, paper products, printing, and publishing	0.9421	1.1000	1.0870	1.1646	1.2131	1.1964	1.1760	1.1474
Coke, refined petroleum, and nuclear fuel	0.5126	0.8080	0.4956	0.4918	0.4454	0.3806	0.3206	0.2616
Chemicals and chemical products	0.8025	0.8964	0.8452	1.0173	1.1029	1.0629	1.0413	1.0061
Rubber and plastics	0.9044	0.9791	0.8995	0.9578	0.9896	0.9636	0.9359	0.8930
Other nonmetallic minerals	0.8495	1.0415	0.8790	0.8998	0.8947	0.8782	0.8200	0.7759
Basic metals and fabricated metal	0.8588	1.0864	0.8384	0.8235	0.7760	0.7202	0.6637	0.6056
Machinery, nec	0.9178	1.0068	0.8839	0.8740	0.8378	0.8157	0.7639	0.7159
Electrical and optical equipment	1.0434	0.9401	0.9646	0.9602	0.9114	0.8449	0.7948	0.7294
Transport equipment	1.0367	1.0257	0.9907	1.0005	0.9895	0.9539	0.9203	0.8839
Manufacturing, nec; recycling	0.7806	1.0578	1.0300	1.0518	1.0551	1.0285	1.0069	0.9719
Electricity, gas, and water supply	0.4006	0.4409	0.4007	0.3981	0.3926	0.3819	0.3716	0.3591
Construction	0.5545	0.6861	0.6047	0.5938	0.5653	0.5402	0.5124	0.4818
Sale, maintenance, and repair	0.6237	0.6173	0.6169	0.6143	0.6081	0.5948	0.5823	0.5686
Wholesale trade and commission trade	0.5044	0.5071	0.4889	0.4908	0.4938	0.4869	0.4821	0.4738
Retail trade	0.4322	0.4406	0.4294	0.4320	0.4354	0.4291	0.4251	0.4180
Hotels and restaurants	1.0875	1.0727	1.0782	1.1045	1.1219	1.1130	1.1112	1.0920
Inland transport	0.6027	0.6416	0.5706	0.5556	0.5261	0.4998	0.4727	0.4406
Water transport	0.6650	0.7313	0.6329	0.6071	0.5637	0.5729	0.5113	0.4804
Air transport	0.9300	1.0307	0.9125	0.8885	0.8460	0.8111	0.7782	0.7353
Other supporting and auxiliary transport activities	0.5866	0.6249	0.6080	0.6115	0.6085	0.5915	0.5760	0.5588
Post and telecommunications	0.4690	0.4633	0.4635	0.4624	0.4566	0.4424	0.4296	0.4152
Financial intermediation	0.4147	0.4388	0.4348	0.4344	0.4355	0.4311	0.4269	0.4209
Real estate activities	0.2494	0.2605	0.2532	0.2542	0.2577	0.2602	0.2606	0.2564
Renting of M&Eq and other business activities	0.5261	0.5495	0.5434	0.5495	0.5544	0.5408	0.5367	0.5283
Public administration and defense; compulsory social security	0.4574	0.4635	0.4596	0.4614	0.4653	0.4597	0.4576	0.4516
Education	0.2462	0.2701	0.2665	0.2693	0.2732	0.2685	0.2631	0.2558
Health and social work	0.7014	0.7163	0.7131	0.7550	0.7855	0.7747	0.7669	0.7531
Other community, social, and personal services	0.6073	0.6438	0.6404	0.6522	0.6573	0.6426	0.6291	0.6117
Private households with employed persons	0.1584	0.1597	0.1606	0.1634	0.1699	0.1658	0.1708	0.1668

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 7.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.1840	0.1783	0.1863	0.1612	0.1460	0.1571	0.1749	0.1887
Mining and quarrying	0.2990	0.2712	0.3131	0.3183	0.3355	0.3354	0.3576	0.3824
Food, beverages, and tobacco	0.2484	0.2503	0.2629	0.2401	0.2311	0.2500	0.2707	0.2918
Textiles and textile products	0.6175	0.5270	0.5071	0.5227	0.5616	0.5800	0.6379	0.6798
Leather, leather products, and footwear	0.7228	0.6212	0.5686	0.6178	0.6834	0.7294	0.7597	0.8066
Wood and products of wood and cork	0.4415	0.3504	0.3798	0.3420	0.3199	0.3383	0.3618	0.3902
Pulp, paper, paper products, printing, and publishing	0.6312	0.4784	0.4952	0.4379	0.4096	0.4354	0.4639	0.4976
Coke, refined petroleum, and nuclear fuel	0.9306	0.6858	0.9808	1.0072	1.0585	1.1435	1.2544	1.2822
Chemicals and chemical products	0.7861	0.7243	0.7830	0.6088	0.5241	0.5372	0.5740	0.6163
Rubber and plastics	0.7083	0.6533	0.7447	0.6953	0.6737	0.7093	0.7593	0.8150
Other nonmetallic minerals	0.6700	0.5438	0.6898	0.6787	0.6923	0.7498	0.7991	0.8137
Basic metals and fabricated metal	0.9245	0.7835	1.0026	1.0300	1.0820	1.1610	1.2548	1.2878
Machinery, nec	0.8000	0.7383	0.8664	0.8860	0.9320	1.0204	1.0823	1.1490
Electrical and optical equipment	1.0392	1.2787	1.2294	1.2412	1.2835	1.3676	1.4623	1.5284
Transport equipment	0.6370	0.6611	0.6858	0.6846	0.7110	0.7624	0.8088	0.8589
Manufacturing, nec; recycling	0.8043	0.5098	0.5351	0.5195	0.5266	0.5654	0.6047	0.6473
Electricity, gas, and water supply	0.2236	0.1811	0.2305	0.2333	0.2448	0.2623	0.2788	0.3005
Construction	0.5548	0.4119	0.4884	0.4984	0.5302	0.5682	0.6078	0.6432
Sale, maintenance, and repair	0.2429	0.2710	0.2645	0.2652	0.2757	0.2973	0.3129	0.3289
Wholesale trade and commission trade	0.1252	0.1135	0.1360	0.1318	0.1345	0.1439	0.1538	0.1648
Retail trade	0.1090	0.1063	0.1203	0.1148	0.1153	0.1230	0.1307	0.1404
Hotels and restaurants	0.2670	0.2952	0.2916	0.2625	0.2490	0.2695	0.2895	0.3099
Inland transport	0.4861	0.4724	0.5436	0.5631	0.5983	0.6358	0.6764	0.7160
Water transport	0.4544	0.4208	0.5304	0.5519	0.5910	0.6604	0.6530	0.7058
Air transport	0.6171	0.5526	0.6797	0.7224	0.7812	0.8146	0.8610	0.9319
Other supporting and auxiliary transport activities	0.3091	0.2962	0.3112	0.3085	0.3181	0.3372	0.3561	0.3809
Post and telecommunications	0.2536	0.2960	0.2881	0.2818	0.2863	0.3053	0.3197	0.3384
Financial intermediation	0.1102	0.1086	0.1127	0.1045	0.1027	0.1091	0.1150	0.1240
Real estate activities	0.0816	0.0700	0.0788	0.0747	0.0750	0.0809	0.0852	0.0934
Renting of M&Eq and other business activities	0.1460	0.1457	0.1518	0.1435	0.1431	0.1500	0.1577	0.1690
Public administration and defense; compulsory social security	0.0921	0.0941	0.0986	0.0932	0.0929	0.0966	0.1032	0.1094
Education	0.1384	0.1186	0.1213	0.1167	0.1181	0.1258	0.1325	0.1420
Health and social work	0.2867	0.2823	0.2873	0.2423	0.2156	0.2302	0.2436	0.2611
Other community, social, and personal services	0.3163	0.2947	0.2948	0.2913	0.3001	0.3186	0.3363	0.3591
Private households with employed persons	0.0679	0.0691	0.0680	0.0617	0.0596	0.0634	0.0702	0.0758

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 7.3.5: Net Feedback Multipliers (M3), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
Mining and quarrying	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003
Food, beverages, and tobacco	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Textiles and textile products	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004
Leather, leather products, and footwear	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005
Wood and products of wood and cork	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003
Pulp, paper, paper products, printing, and publishing	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004
Coke, refined petroleum, and nuclear fuel	0.0004	0.0003	0.0003	0.0004	0.0004	0.0005	0.0006	0.0006
Chemicals and chemical products	0.0004	0.0003	0.0004	0.0003	0.0003	0.0003	0.0004	0.0004
Rubber and plastics	0.0004	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004	0.0005
Other nonmetallic minerals	0.0004	0.0003	0.0004	0.0003	0.0004	0.0004	0.0005	0.0005
Basic metals and fabricated metal	0.0004	0.0004	0.0005	0.0005	0.0005	0.0006	0.0007	0.0007
Machinery, nec	0.0005	0.0004	0.0005	0.0005	0.0005	0.0006	0.0007	0.0007
Electrical and optical equipment	0.0029	0.0034	0.0035	0.0032	0.0031	0.0032	0.0036	0.0039
Transport equipment	0.0009	0.0009	0.0009	0.0008	0.0008	0.0009	0.0010	0.0011
Manufacturing, nec; recycling	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005
Electricity, gas, and water supply	0.0002	0.0002	0.0003	0.0002	0.0002	0.0003	0.0003	0.0003
Construction	0.0003	0.0002	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004
Sale, maintenance, and repair	0.0005	0.0006	0.0006	0.0005	0.0005	0.0006	0.0006	0.0007
Wholesale trade and commission trade	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Retail trade	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Hotels and restaurants	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003
Inland transport	0.0005	0.0006	0.0006	0.0005	0.0006	0.0006	0.0007	0.0007
Water transport	0.0004	0.0003	0.0004	0.0003	0.0004	0.0005	0.0005	0.0005
Air transport	0.0003	0.0003	0.0003	0.0003	0.0004	0.0005	0.0005	0.0006
Other supporting and auxiliary transport activities	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004
Post and telecommunications	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007
Financial intermediation	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Real estate activities	0.0001	0.0000	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001
Renting of M&Eq and other business activities	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002
Public administration and defense; compulsory social security	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Education	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
Health and social work	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003
Other community, social, and personal services	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004
Private households with employed persons	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 7.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	1,265	1,159	1,303	1,205	1,512	1,386	1,362	1,257	1,624	1,504	1,450	1,341	1,418	1,302	1,618	1,473
Low tech	10,557	9,073	10,722	9,334	12,015	10,385	11,203	9,785	12,873	11,309	12,719	11,104	12,969	11,207	14,121	12,074
High and medium tech	21,598	13,568	20,891	12,491	22,327	13,002	21,498	12,770	22,782	13,384	22,114	12,576	21,932	11,906	25,201	13,075
Utilities	0	0	11	10	1	0	5	5	10	9	9	8	9	8	11	10
Construction	55	43	180	152	188	152	128	104	222	177	241	190	258	200	288	219
Trade and repair services	1,393	1,326	2,050	1,954	2,214	2,096	1,961	1,861	2,382	2,263	2,465	2,336	2,536	2,393	2,873	2,698
Tourism	3,412	3,040	3,873	3,419	4,298	3,798	4,410	3,947	4,744	4,266	5,011	4,469	5,204	4,598	6,012	5,261
Transport services	1,031	837	1,001	836	1,123	905	1,531	1,263	1,829	1,500	1,944	1,581	1,995	1,605	2,256	1,780
ICT services	710	641	658	585	735	655	694	622	657	588	681	606	659	582	704	617
Finance and insurance services	941	896	308	294	346	329	859	820	522	499	540	515	556	528	637	602
Property services	10,886	10,202	10,664	10,000	11,397	10,657	13,006	12,228	14,141	13,301	15,202	14,268	16,754	15,665	19,162	17,822
Public and welfare services	695	631	756	691	936	852	907	822	1,198	1,087	1,260	1,137	1,295	1,161	1,415	1,261
Services provided by private households	–	–	2	2	2	2	3	3	2	2	3	2	3	3	3	3

\$ = United States dollar, ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 7.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.221	0.771	0.205	0.727	0.218	0.723	0.205	0.695	0.238	0.780	0.235	0.768	0.229	0.747	0.221	0.744
Low tech	1.393	1.375	1.443	1.522	1.493	1.557	1.334	1.423	1.374	1.417	1.335	1.411	1.324	1.409	1.269	1.361
High and medium tech	0.878	0.717	0.852	0.731	0.843	0.727	0.811	0.702	0.786	0.677	0.749	0.650	0.730	0.600	0.738	0.604
Utilities	0.000	1.688	0.048	1.513	0.002	1.512	0.019	1.538	0.034	1.564	0.030	1.485	0.023	1.423	0.029	1.379
Construction	0.265	0.081	0.897	0.276	0.811	0.261	0.413	0.164	0.686	0.269	0.711	0.294	0.642	0.294	0.739	0.301
Trade and repair services	0.339	1.199	0.506	1.233	0.487	1.209	0.435	1.141	0.481	1.159	0.483	1.124	0.479	1.112	0.482	1.101
Tourism	6.154	2.790	6.996	3.225	7.270	3.288	7.228	3.277	6.944	3.132	7.301	3.219	6.445	3.065	7.520	3.347
Transport services	0.329	0.430	0.342	0.376	0.348	0.387	0.481	0.457	0.521	0.471	0.540	0.477	0.545	0.482	0.543	0.472
ICT services	2.015	2.048	1.996	1.672	1.860	1.673	1.757	1.614	1.503	1.507	1.523	1.488	1.364	1.322	1.214	1.079
Finance and insurance services	0.582	0.738	0.202	0.627	0.209	0.612	0.498	0.774	0.272	0.647	0.272	0.621	0.261	0.671	0.274	0.678
Property services	3.169	1.575	3.179	1.570	3.125	1.540	3.329	1.664	3.179	1.614	3.246	1.676	3.372	1.782	3.380	1.840
Public and welfare services	0.708	0.546	0.827	0.613	0.911	0.685	0.821	0.644	1.000	0.693	0.994	0.711	0.932	0.699	1.003	0.721
Services provided by private households	0.000	0.000	0.077	0.059	0.067	0.053	0.145	0.109	0.114	0.086	0.134	0.099	0.145	0.106	0.142	0.103

ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

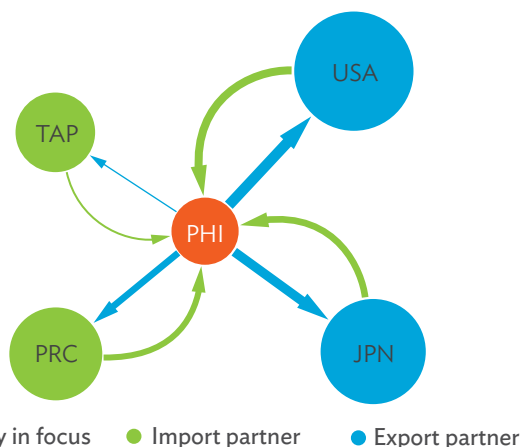
Source: Asian Development Bank Multi-Regional Input-Output Database.

# 7.4

## GLOBAL VALUE CHAIN INDICATORS

### Philippines

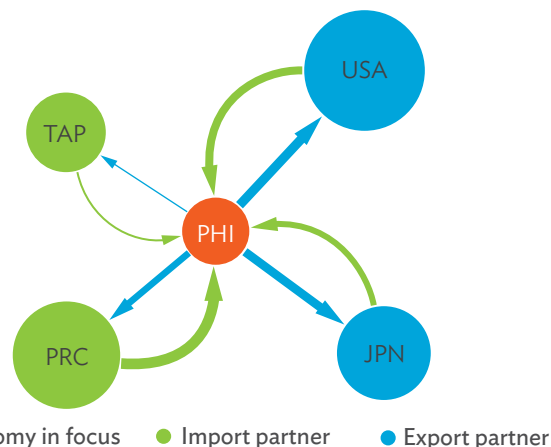
**Figure 7.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



JPN = Japan; PHI = Philippines; PRC = People's Republic of China; TAP = Taipei, China; USA = United States.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

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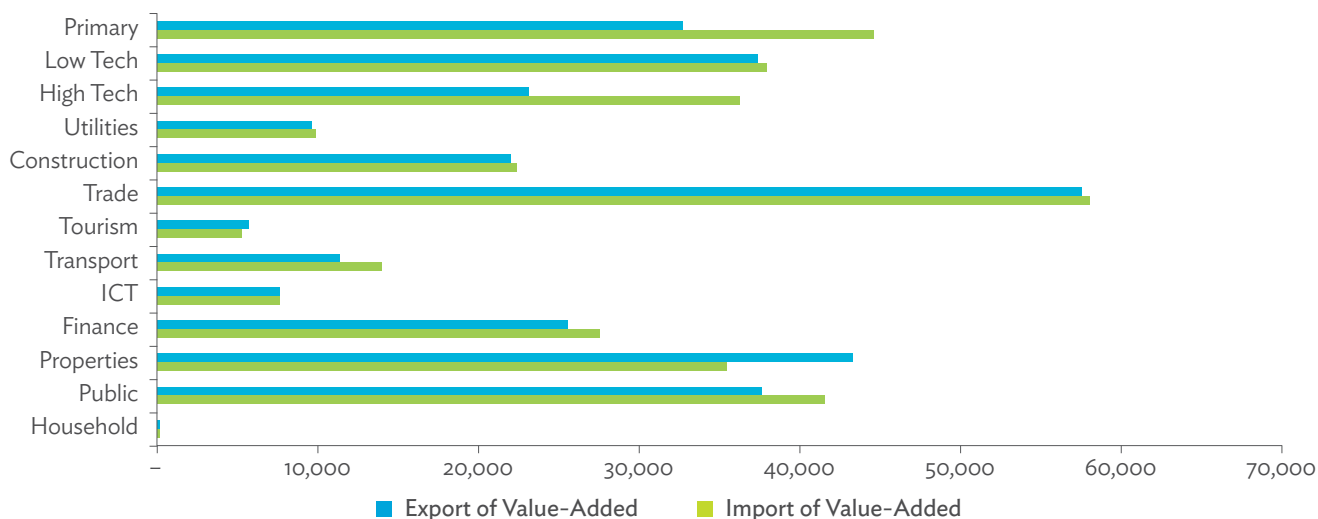
**Figure 7.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



JPN = Japan; PHI = Philippines; PRC = People's Republic of China; TAP = Taipei, China; USA = United States.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

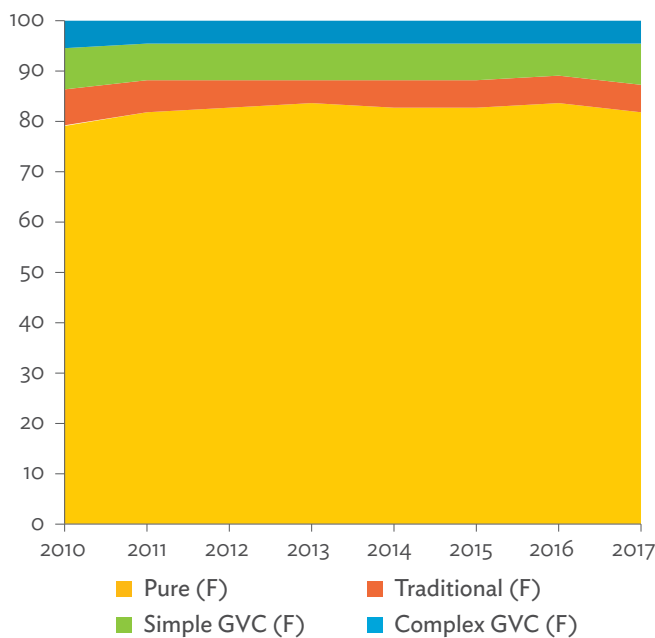
[Click here for figure data](#)

**Figure 7.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

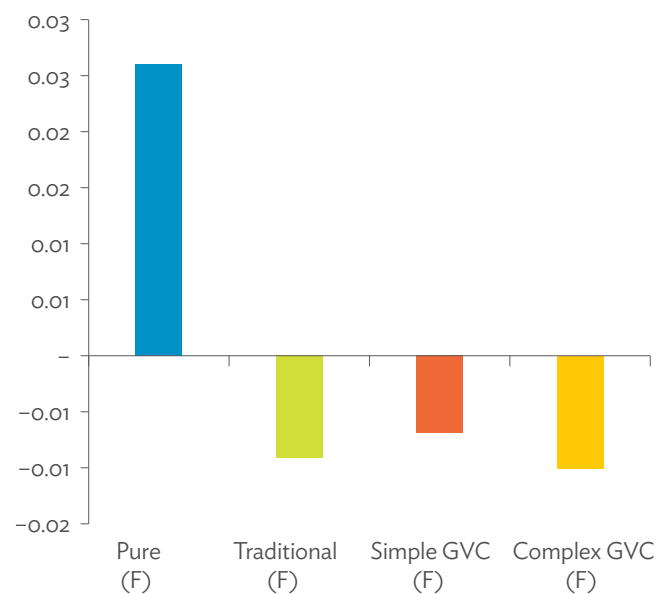
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**Figure 7.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

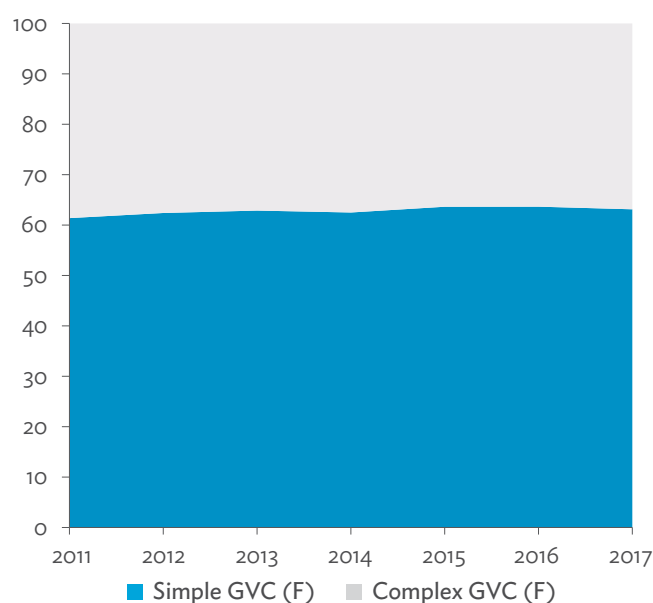
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

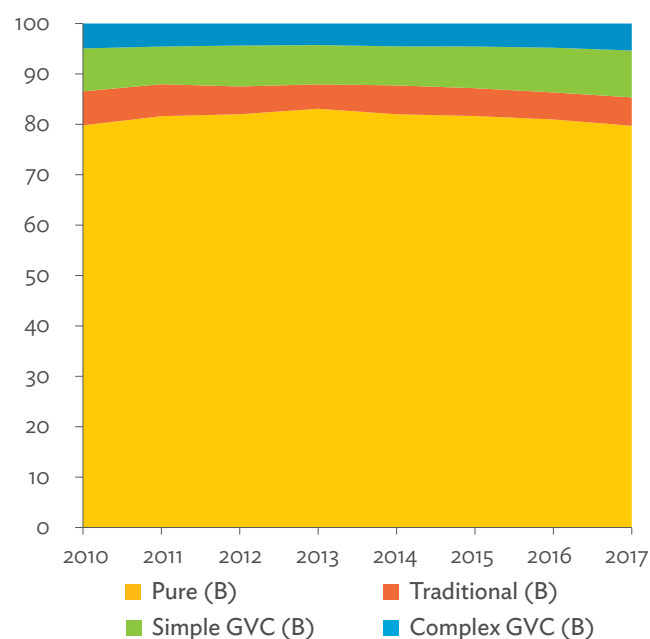


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

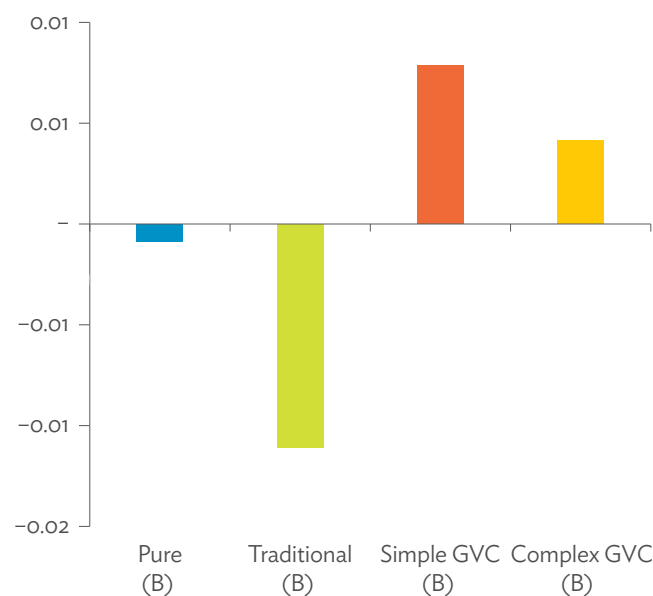


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



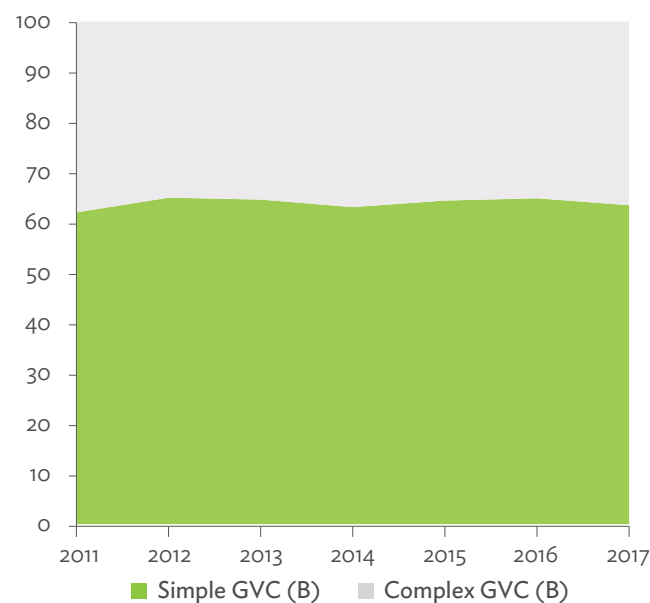
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

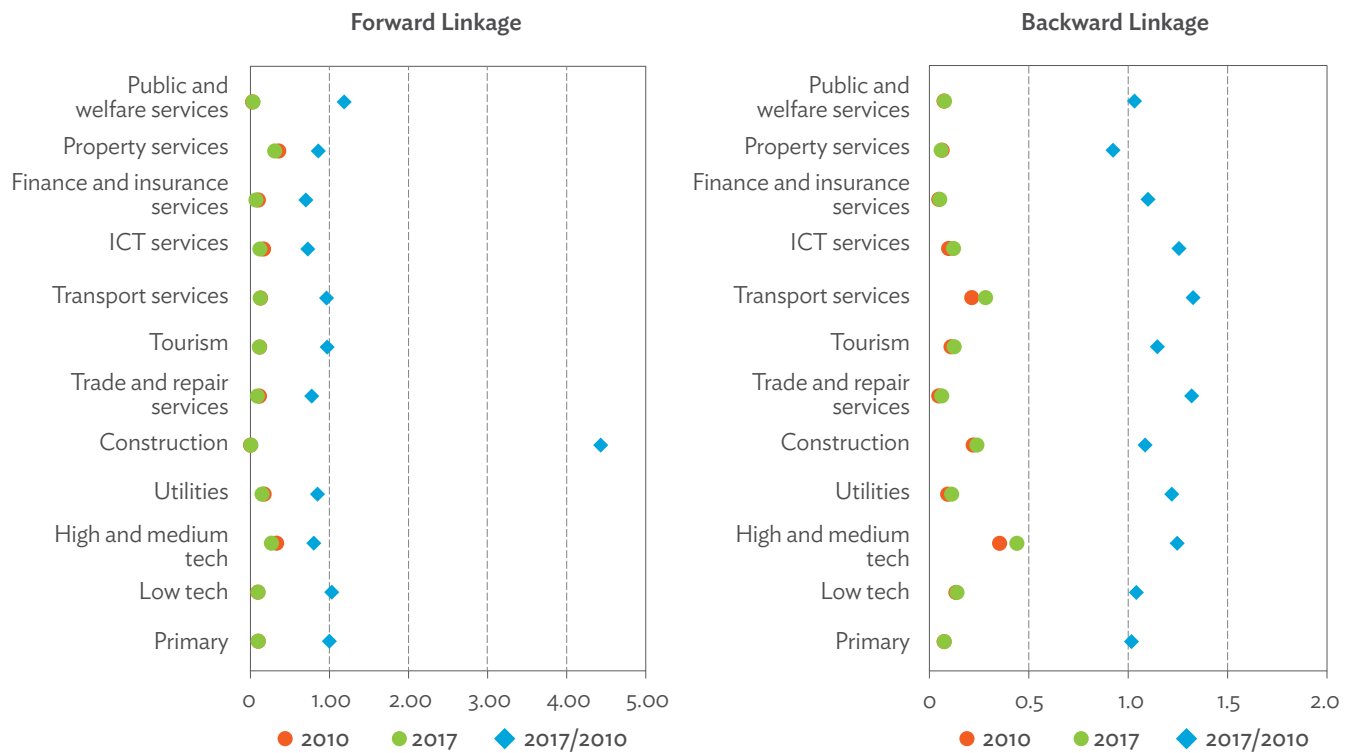


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

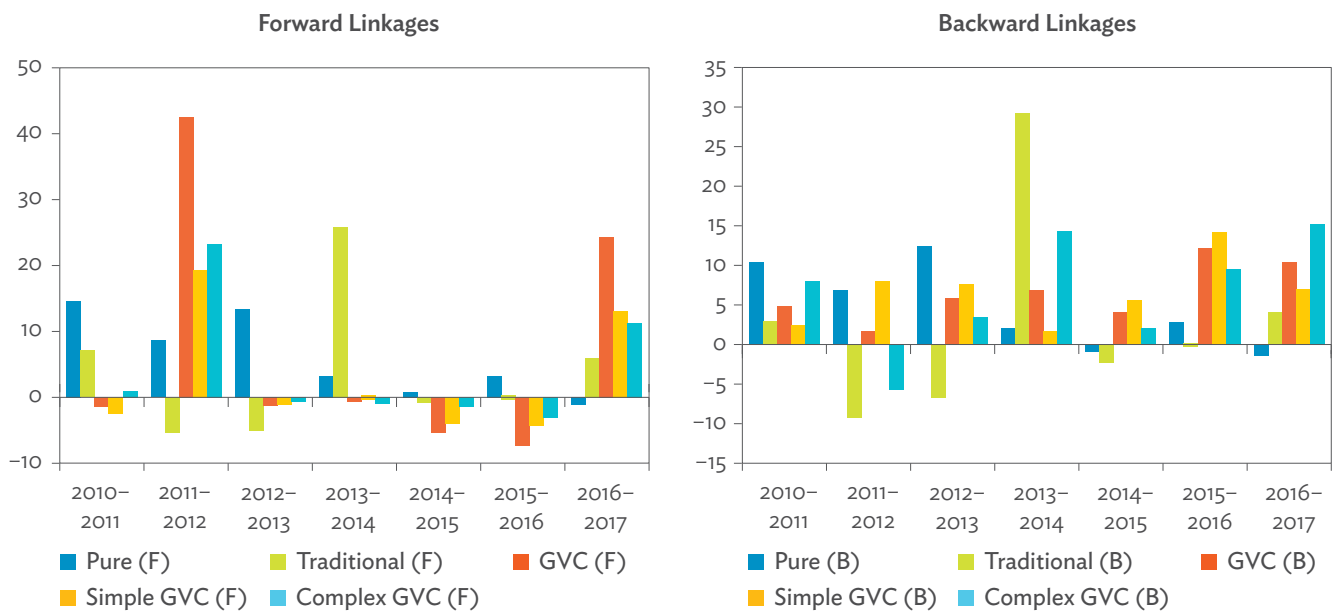


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

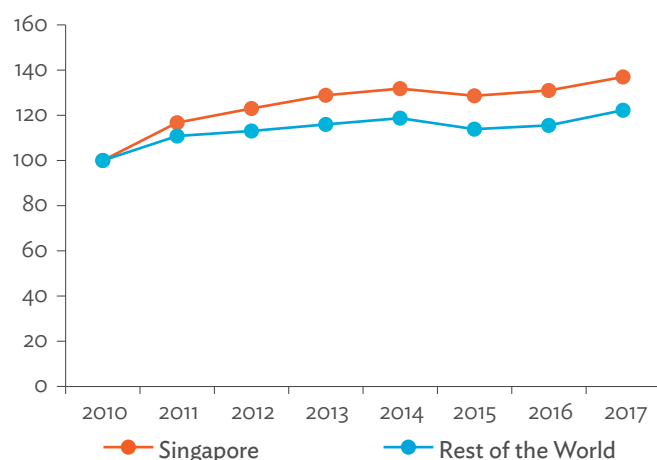
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# 8.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Singapore

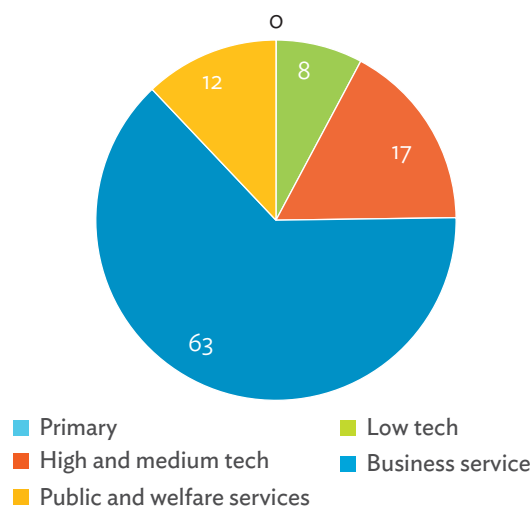
**Figure 8.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

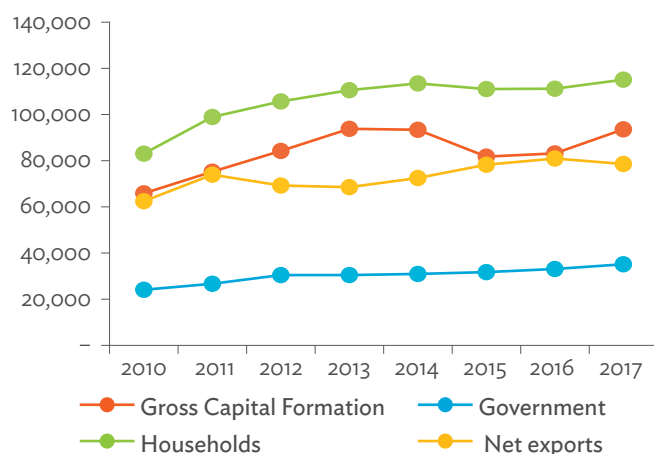
**Figure 8.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

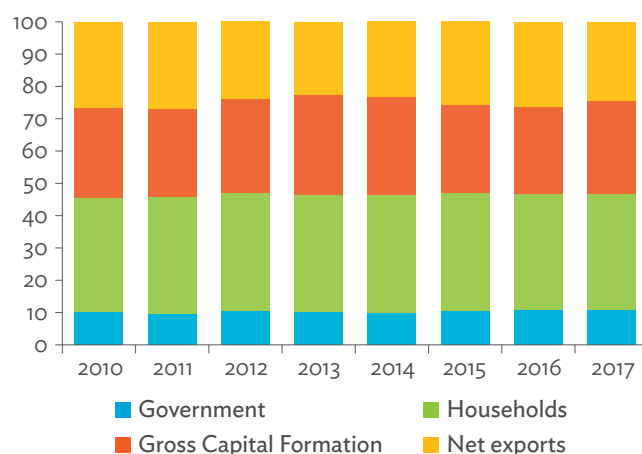


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

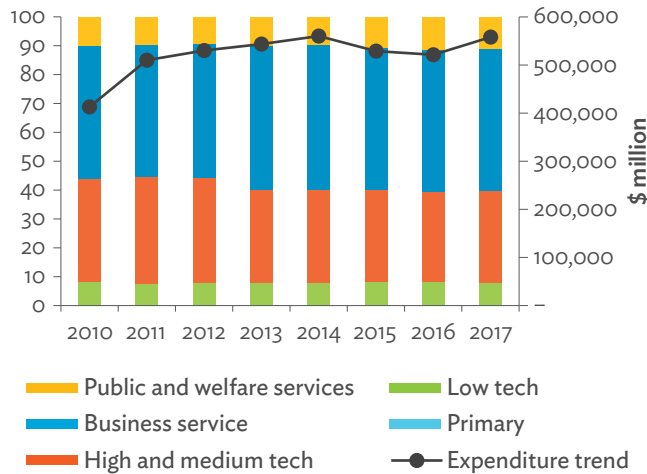
**Figure 8.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

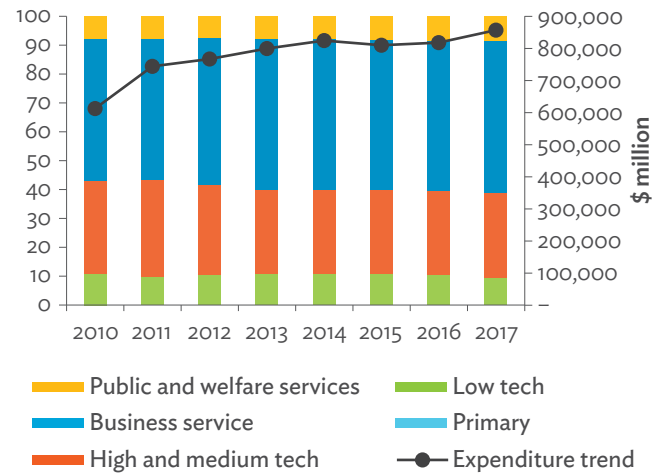


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**



\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

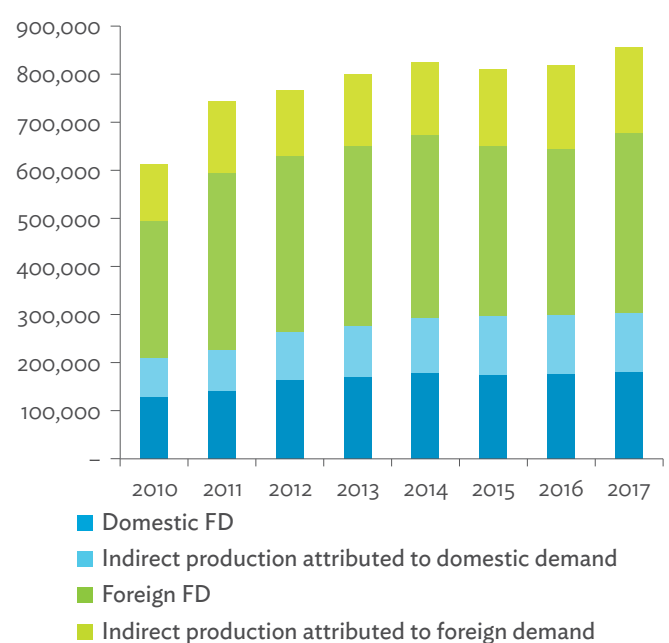


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

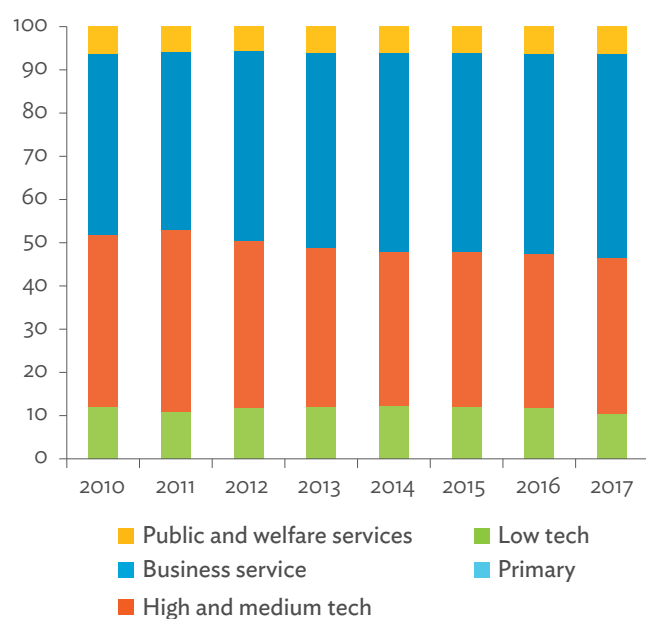


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

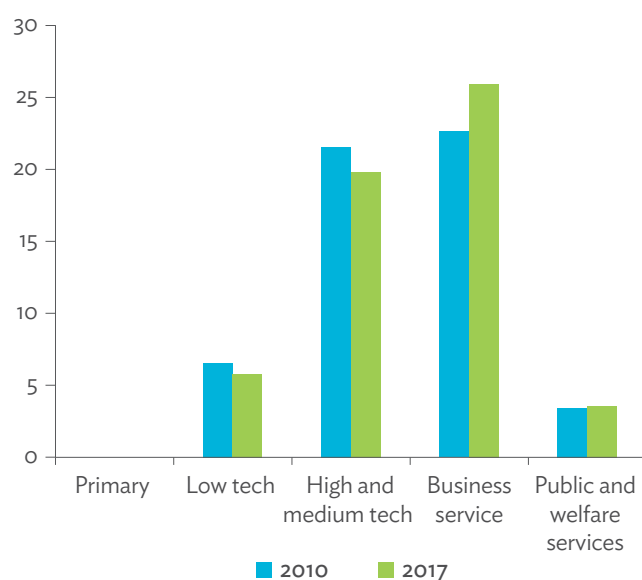
**Figure 8.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

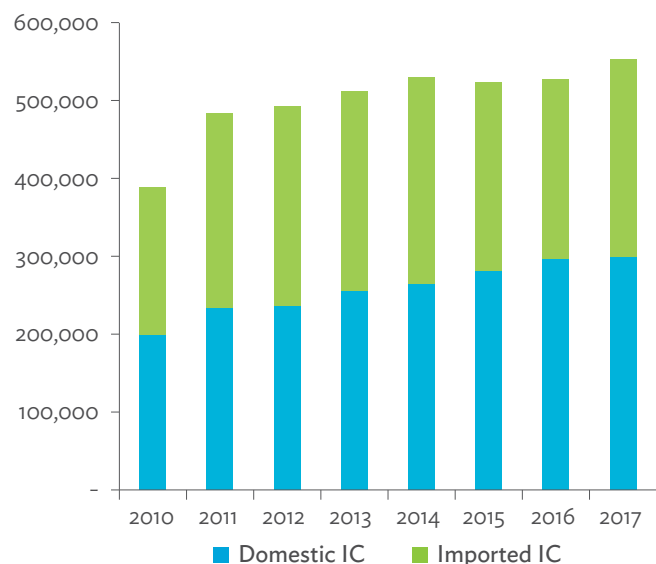
**Figure 8.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

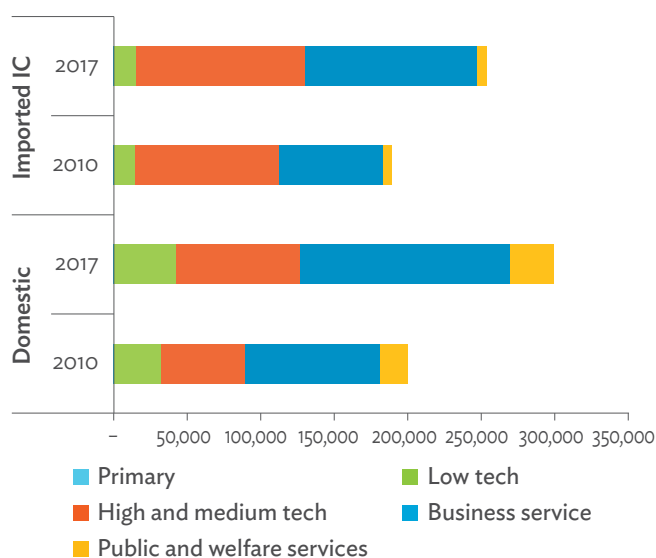


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**



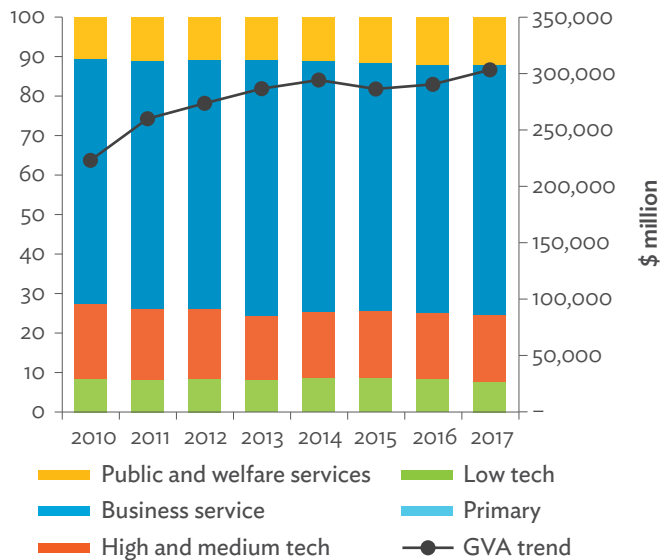
\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 8.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

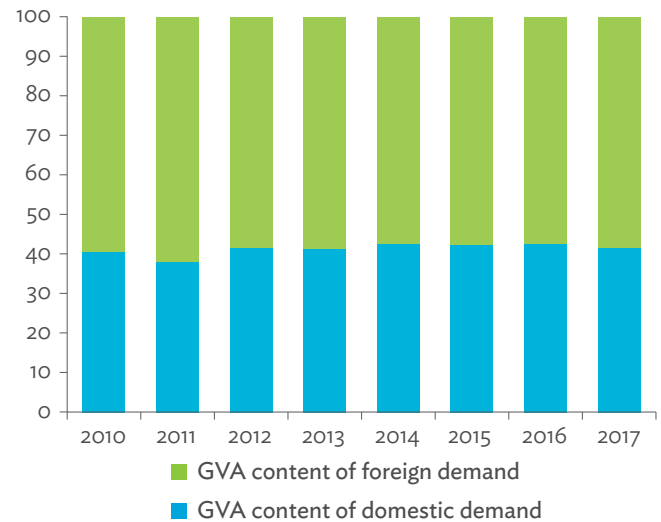


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

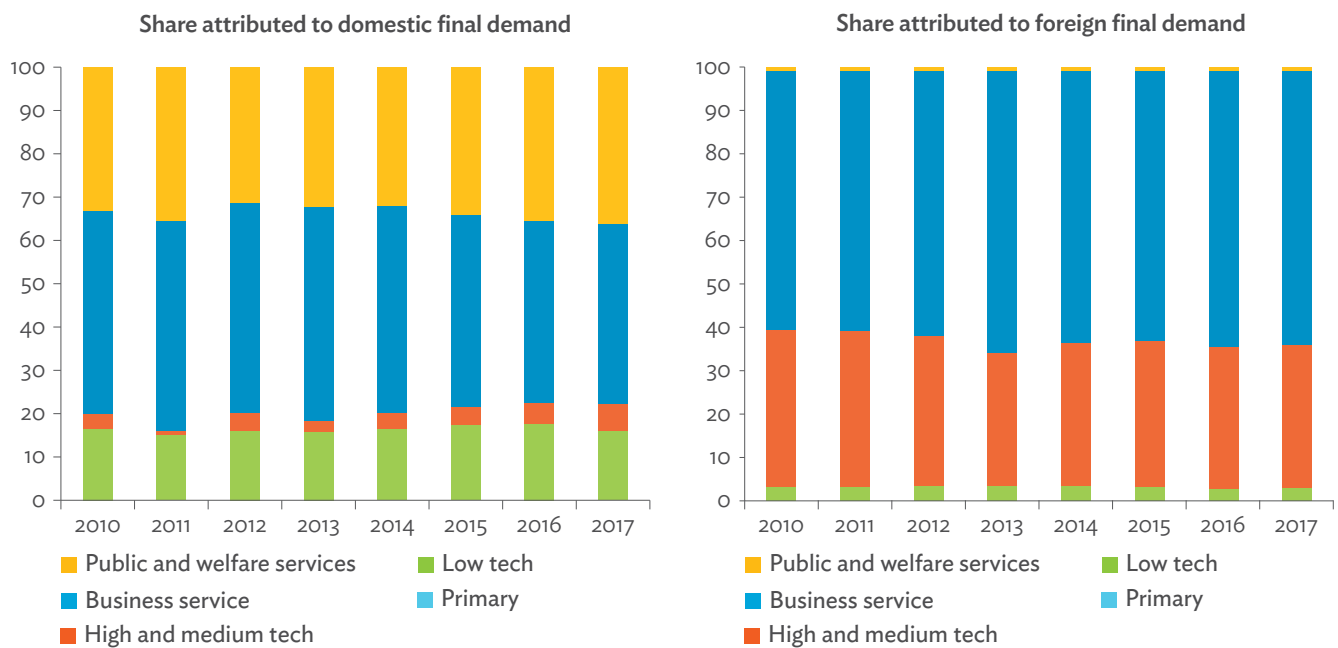


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 8.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.670	0.678	0.697	0.684	0.653	0.668	0.677	0.666
Mining and quarrying	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Food, beverages, and tobacco	0.436	0.430	0.550	0.542	0.576	0.594	0.606	0.595
Textiles and textile products	0.346	0.327	0.402	0.423	0.466	0.517	0.534	0.523
Leather, leather products, and footwear	0.517	0.502	0.000	0.000	0.000	0.000	0.000	0.000
Wood and products of wood and cork	0.525	0.350	0.405	0.409	0.418	0.303	0.323	0.309
Pulp, paper, paper products, printing, and publishing	0.583	0.591	0.661	0.665	0.676	0.694	0.703	0.693
Coke, refined petroleum, and nuclear fuel	0.144	0.130	0.088	0.067	0.119	0.146	0.159	0.138
Chemicals and chemical products	0.494	0.530	0.543	0.541	0.554	0.577	0.589	0.576
Rubber and plastics	0.586	0.583	0.554	0.476	0.532	0.548	0.554	0.533
Other nonmetallic minerals	0.499	0.462	0.414	0.381	0.381	0.404	0.421	0.421
Basic metals and fabricated metal	0.402	0.391	0.405	0.416	0.401	0.428	0.445	0.427
Machinery, nec	0.475	0.476	0.485	0.525	0.507	0.537	0.545	0.535
Electrical and optical equipment	0.375	0.331	0.313	0.325	0.347	0.374	0.390	0.381
Transport equipment	0.541	0.415	0.471	0.458	0.454	0.478	0.492	0.487
Manufacturing, nec; recycling	0.431	0.393	0.393	0.446	0.407	0.429	0.446	0.434
Electricity, gas, and water supply	0.502	0.433	0.436	0.457	0.458	0.485	0.500	0.487
Construction	0.623	0.597	0.611	0.595	0.620	0.637	0.646	0.628
Sale, maintenance, and repair	0.504	0.621	0.601	0.581	0.624	0.630	0.640	0.630
Wholesale trade and commission trade	0.668	0.643	0.646	0.642	0.587	0.602	0.616	0.606
Retail trade	0.851	0.853	0.847	0.844	0.845	0.824	0.833	0.823
Hotels and restaurants	0.669	0.668	0.694	0.693	0.699	0.701	0.715	0.704
Inland transport	0.788	0.802	0.762	0.747	0.772	0.786	0.784	0.773
Water transport	0.283	0.228	0.268	0.274	0.245	0.268	0.289	0.273
Air transport	0.450	0.382	0.406	0.414	0.438	0.456	0.470	0.452
Other supporting and auxiliary transport activities	0.742	0.740	0.692	0.667	0.674	0.684	0.693	0.684
Post and telecommunications	0.649	0.621	0.493	0.474	0.489	0.511	0.523	0.514
Financial intermediation	0.722	0.672	0.701	0.705	0.701	0.716	0.714	0.708
Real estate activities	0.888	0.925	0.882	0.881	0.884	0.830	0.890	0.876
Renting of M&Eq and other business activities	0.655	0.640	0.694	0.674	0.670	0.732	0.695	0.686
Public administration and defense; compulsory social security	0.628	0.629	0.650	0.623	0.663	0.676	0.683	0.676
Education	0.899	0.887	0.883	0.882	0.880	0.881	0.883	0.881
Health and social work	0.808	0.804	0.808	0.791	0.809	0.810	0.813	0.809
Other community, social, and personal services	0.824	0.824	0.827	0.824	0.825	0.832	0.833	0.828
Private households with employed persons	1.000	0.944	0.912	0.913	0.907	0.909	0.912	0.907

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 8.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.325	0.319	0.301	0.314	0.345	0.330	0.321	0.331
Mining and quarrying	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Food, beverages, and tobacco	0.563	0.569	0.449	0.457	0.424	0.406	0.393	0.404
Textiles and textile products	0.653	0.673	0.598	0.577	0.534	0.483	0.465	0.477
Leather, leather products, and footwear	0.482	0.497	0.000	0.000	0.000	0.000	0.000	0.000
Wood and products of wood and cork	0.474	0.650	0.594	0.590	0.582	0.697	0.676	0.691
Pulp, paper, paper products, printing, and publishing	0.416	0.408	0.339	0.335	0.323	0.305	0.296	0.307
Coke, refined petroleum, and nuclear fuel	0.855	0.869	0.911	0.932	0.880	0.853	0.840	0.861
Chemicals and chemical products	0.505	0.470	0.457	0.458	0.446	0.423	0.411	0.423
Rubber and plastics	0.412	0.416	0.445	0.522	0.467	0.452	0.445	0.467
Other nonmetallic minerals	0.500	0.537	0.585	0.618	0.619	0.595	0.578	0.578
Basic metals and fabricated metal	0.596	0.608	0.594	0.584	0.598	0.571	0.554	0.572
Machinery, nec	0.524	0.524	0.515	0.475	0.492	0.462	0.454	0.465
Electrical and optical equipment	0.624	0.669	0.687	0.675	0.653	0.626	0.609	0.619
Transport equipment	0.458	0.584	0.529	0.541	0.545	0.522	0.508	0.513
Manufacturing, nec; recycling	0.568	0.606	0.607	0.554	0.593	0.571	0.553	0.566
Electricity, gas, and water supply	0.496	0.565	0.562	0.541	0.540	0.513	0.497	0.510
Construction	0.376	0.402	0.389	0.405	0.380	0.363	0.353	0.371
Sale, maintenance, and repair	0.495	0.378	0.398	0.419	0.376	0.370	0.359	0.369
Wholesale trade and commission trade	0.332	0.357	0.354	0.358	0.413	0.397	0.383	0.393
Retail trade	0.147	0.146	0.152	0.155	0.153	0.174	0.165	0.175
Hotels and restaurants	0.329	0.330	0.304	0.305	0.299	0.297	0.283	0.294
Inland transport	0.210	0.197	0.237	0.252	0.227	0.213	0.214	0.225
Water transport	0.715	0.771	0.731	0.725	0.754	0.731	0.710	0.726
Air transport	0.547	0.615	0.591	0.583	0.559	0.541	0.526	0.544
Other supporting and auxiliary transport activities	0.256	0.259	0.307	0.332	0.325	0.315	0.306	0.314
Post and telecommunications	0.350	0.378	0.506	0.525	0.510	0.488	0.476	0.484
Financial intermediation	0.275	0.325	0.296	0.292	0.296	0.281	0.283	0.289
Real estate activities	0.109	0.071	0.115	0.116	0.113	0.165	0.104	0.117
Renting of M&Eq and other business activities	0.344	0.359	0.305	0.325	0.329	0.268	0.304	0.313
Public administration and defense; compulsory social security	0.368	0.367	0.347	0.374	0.333	0.321	0.314	0.320
Education	0.098	0.110	0.114	0.115	0.118	0.116	0.115	0.117
Health and social work	0.185	0.189	0.183	0.200	0.183	0.182	0.179	0.183
Other community, social, and personal services	0.171	0.171	0.167	0.170	0.170	0.162	0.162	0.166
Private households with employed persons	0.000	0.055	0.088	0.086	0.092	0.090	0.088	0.092

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 8.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.543	1.545	1.562	1.467	1.484	1.519	1.553	1.532
Mining and quarrying	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Food, beverages, and tobacco	1.594	1.378	1.571	1.638	1.675	1.723	1.766	1.726
Textiles and textile products	1.450	1.196	1.298	1.262	1.207	1.341	1.386	1.358
Leather, leather products, and footwear	1.436	1.379	1.000	1.000	1.000	1.000	1.000	1.000
Wood and products of wood and cork	1.520	1.195	1.343	1.388	1.410	1.590	1.656	1.616
Pulp, paper, paper products, printing, and publishing	1.438	1.374	1.393	1.411	1.435	1.459	1.486	1.470
Coke, refined petroleum, and nuclear fuel	1.432	1.605	1.350	1.435	1.464	1.563	1.649	1.601
Chemicals and chemical products	1.211	1.208	1.177	1.259	1.256	1.299	1.342	1.321
Rubber and plastics	1.684	1.738	1.647	1.577	1.679	1.731	1.776	1.750
Other nonmetallic minerals	1.679	1.587	1.428	1.597	1.607	1.672	1.733	1.680
Basic metals and fabricated metal	1.366	1.312	1.338	1.374	1.365	1.430	1.484	1.450
Machinery, nec	1.472	1.571	1.657	1.607	1.592	1.635	1.693	1.661
Electrical and optical equipment	1.436	1.336	1.278	1.297	1.330	1.397	1.459	1.424
Transport equipment	1.448	1.230	1.448	1.474	1.515	1.576	1.631	1.591
Manufacturing, nec; recycling	1.504	1.362	1.337	1.388	1.282	1.350	1.404	1.370
Electricity, gas, and water supply	1.533	1.378	1.413	1.419	1.400	1.457	1.509	1.479
Construction	2.092	2.072	2.147	2.165	2.203	2.241	2.285	2.216
Sale, maintenance, and repair	1.448	1.327	1.466	1.471	1.497	1.543	1.570	1.549
Wholesale trade and commission trade	1.360	1.314	1.380	1.386	1.358	1.400	1.439	1.415
Retail trade	1.689	1.655	1.713	1.705	1.720	1.774	1.728	1.722
Hotels and restaurants	1.598	1.526	1.579	1.598	1.597	1.647	1.646	1.623
Inland transport	1.653	1.536	1.622	1.568	1.614	1.629	1.655	1.642
Water transport	1.398	1.257	1.388	1.449	1.294	1.375	1.445	1.402
Air transport	1.498	1.428	1.441	1.502	1.499	1.565	1.615	1.582
Other supporting and auxiliary transport activities	1.604	1.589	1.437	1.438	1.406	1.442	1.471	1.451
Post and telecommunications	1.680	1.773	1.449	1.406	1.491	1.545	1.594	1.564
Financial intermediation	1.424	1.351	1.417	1.403	1.371	1.403	1.445	1.427
Real estate activities	1.526	1.294	1.510	1.487	1.498	1.791	1.499	1.534
Renting of M&Eq and other business activities	1.448	1.647	1.466	1.450	1.433	1.398	1.495	1.477
Public administration and defense; compulsory social security	1.768	1.767	1.785	1.736	1.800	1.834	1.869	1.846
Education	1.289	1.298	1.310	1.305	1.309	1.323	1.334	1.327
Health and social work	1.538	1.531	1.542	1.563	1.541	1.557	1.573	1.566
Other community, social, and personal services	1.505	1.482	1.441	1.443	1.474	1.490	1.506	1.496
Private households with employed persons	1.003	1.187	1.278	1.271	1.261	1.263	1.263	1.258

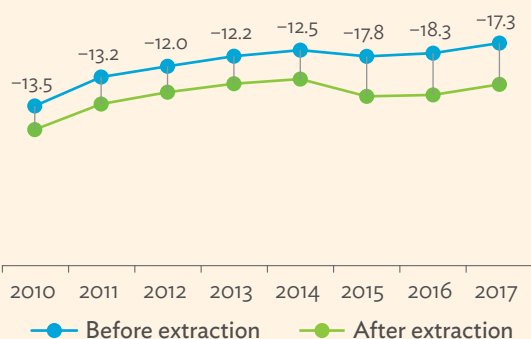
M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

# 8.2

# Box 8: Hypothetical Extraction of Renting of Machinery and Equipment and Other Business Activities Industry in Singapore

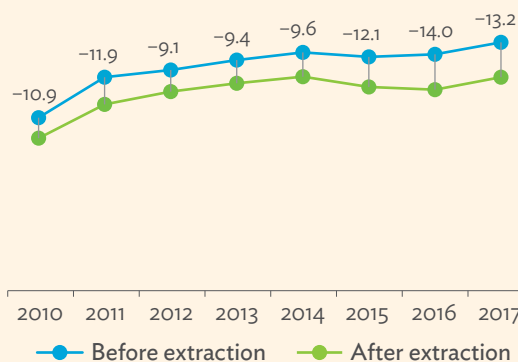
**Figure 8.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

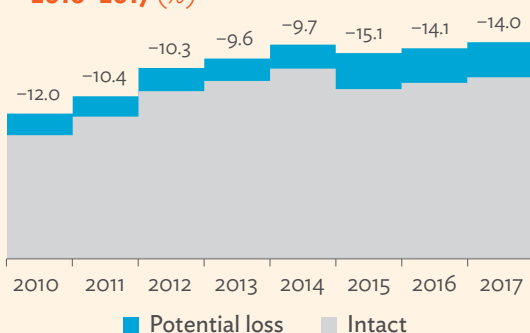
**Figure 8.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

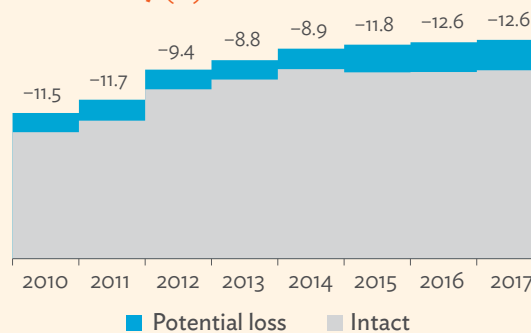
**Figure 8.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

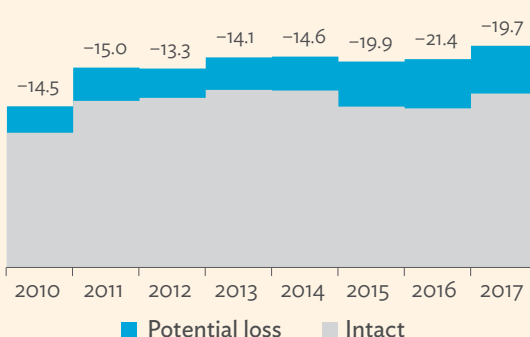
**Figure 8.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

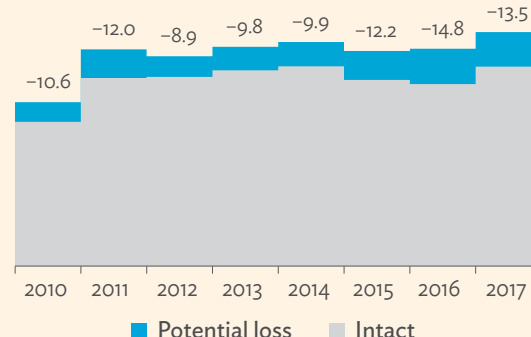
**Figure 8.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 8.2.1: Input-Output Backward Linkage**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.033	1.073	1.081	1.008	1.017	1.004	1.008	1.009
Mining and quarrying	0.670	0.694	0.692	0.687	0.685	0.661	0.649	0.659
Food, beverages, and tobacco	1.068	0.956	1.087	1.126	1.148	1.139	1.146	1.137
Textiles and textile products	0.971	0.830	0.897	0.867	0.827	0.886	0.899	0.895
Leather, leather products, and footwear	0.962	0.957	0.692	0.687	0.685	0.661	0.649	0.659
Wood and products of wood and cork	1.018	0.829	0.928	0.953	0.966	1.051	1.074	1.064
Pulp, paper, paper products, printing, and publishing	0.963	0.953	0.963	0.969	0.984	0.964	0.964	0.969
Coke, refined petroleum, and nuclear fuel	0.959	1.114	0.934	0.986	1.003	1.033	1.069	1.054
Chemicals and chemical products	0.811	0.838	0.814	0.865	0.861	0.859	0.871	0.870
Rubber and plastics	1.127	1.206	1.139	1.083	1.151	1.144	1.152	1.153
Other nonmetallic minerals	1.124	1.102	0.988	1.097	1.101	1.105	1.124	1.107
Basic metals and fabricated metal	0.915	0.911	0.925	0.944	0.936	0.945	0.963	0.955
Machinery, nec	0.986	1.090	1.146	1.104	1.091	1.081	1.098	1.094
Electrical and optical equipment	0.962	0.927	0.884	0.891	0.912	0.923	0.946	0.938
Transport equipment	0.970	0.854	1.002	1.013	1.039	1.042	1.058	1.048
Manufacturing, nec; recycling	1.007	0.945	0.925	0.954	0.878	0.892	0.911	0.903
Electricity, gas, and water supply	1.027	0.957	0.977	0.975	0.959	0.963	0.979	0.974
Construction	1.401	1.438	1.485	1.487	1.510	1.481	1.482	1.460
Sale, maintenance, and repair	0.970	0.921	1.014	1.011	1.026	1.019	1.018	1.021
Wholesale trade and commission trade	0.910	0.912	0.954	0.952	0.931	0.925	0.933	0.932
Retail trade	1.131	1.149	1.185	1.171	1.179	1.172	1.121	1.134
Hotels and restaurants	1.070	1.059	1.092	1.098	1.095	1.088	1.067	1.070
Inland transport	1.107	1.066	1.122	1.077	1.106	1.077	1.073	1.082
Water transport	0.936	0.872	0.960	0.996	0.887	0.909	0.937	0.924
Air transport	1.003	0.991	0.997	1.032	1.027	1.034	1.048	1.042
Other supporting and auxiliary transport activities	1.074	1.103	0.994	0.988	0.964	0.953	0.954	0.956
Post and telecommunications	1.125	1.231	1.002	0.966	1.022	1.021	1.034	1.031
Financial intermediation	0.953	0.938	0.980	0.964	0.940	0.927	0.937	0.940
Real estate activities	1.022	0.898	1.044	1.022	1.027	1.183	0.972	1.010
Renting of M&Eq and other business activities	0.970	1.143	1.013	0.997	0.982	0.924	0.970	0.973
Public administration and defense; compulsory social security	1.184	1.226	1.235	1.193	1.234	1.212	1.212	1.216
Education	0.863	0.901	0.906	0.897	0.897	0.874	0.865	0.874
Health and social work	1.030	1.062	1.066	1.074	1.056	1.029	1.021	1.032
Other community, social, and personal services	1.008	1.028	0.997	0.992	1.010	0.985	0.977	0.985
Private households with employed persons	0.672	0.824	0.884	0.873	0.864	0.835	0.819	0.829
	lowest linkage							highest linkage



M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 8.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.182	1.092	1.061	1.218	1.165	1.237	1.255	0.950
Mining and quarrying	0.619	0.641	0.657	0.654	0.646	0.635	0.618	0.640
Food, beverages, and tobacco	1.017	0.871	0.938	1.040	0.989	1.009	1.023	0.928
Textiles and textile products	0.913	0.901	0.954	1.046	0.972	1.023	0.903	0.910
Leather, leather products, and footwear	1.025	0.964	0.657	0.654	0.646	0.635	0.618	0.640
Wood and products of wood and cork	1.569	1.289	0.996	1.096	1.044	1.079	1.105	1.043
Pulp, paper, paper products, printing, and publishing	1.107	1.124	1.126	1.150	1.113	1.119	1.249	1.129
Coke, refined petroleum, and nuclear fuel	0.847	0.966	0.867	0.989	0.938	0.955	0.982	1.048
Chemicals and chemical products	0.752	0.764	0.749	0.790	0.786	0.860	0.839	0.788
Rubber and plastics	1.241	1.303	1.277	1.204	1.272	1.260	1.311	1.347
Other nonmetallic minerals	1.631	1.625	1.622	1.739	1.721	1.750	1.747	1.596
Basic metals and fabricated metal	1.119	1.128	1.223	1.339	1.231	1.096	1.144	1.530
Machinery, nec	0.953	0.898	0.957	1.045	0.948	0.964	1.032	0.952
Electrical and optical equipment	0.811	0.807	0.764	0.796	0.780	0.816	0.829	0.807
Transport equipment	0.856	0.738	0.882	0.882	0.874	0.952	0.956	0.845
Manufacturing, nec; recycling	0.942	0.906	0.878	0.875	0.816	0.811	0.797	0.801
Electricity, gas, and water supply	1.418	1.403	1.442	1.449	1.443	1.416	1.405	1.449
Construction	1.064	1.122	1.195	1.187	1.214	1.184	1.151	1.119
Sale, maintenance, and repair	1.374	1.482	1.478	0.822	1.452	1.408	1.386	1.418
Wholesale trade and commission trade	0.768	0.820	0.831	0.808	0.831	0.862	0.840	0.879
Retail trade	0.802	0.795	0.799	0.773	0.800	0.770	0.756	0.782
Hotels and restaurants	0.857	0.797	0.927	0.921	0.911	0.880	0.874	0.901
Inland transport	1.100	1.200	1.157	1.141	1.141	1.103	1.086	1.122
Water transport	0.841	0.766	0.914	0.902	0.850	0.893	0.886	0.914
Air transport	0.806	0.897	0.896	0.913	0.950	0.952	0.935	0.975
Other supporting and auxiliary transport activities	1.228	1.225	1.217	1.211	1.199	1.228	1.202	1.248
Post and telecommunications	1.326	1.396	1.196	1.185	1.140	1.141	1.230	1.170
Financial intermediation	1.068	0.996	1.112	1.067	1.039	1.033	0.997	1.043
Real estate activities	0.943	1.035	0.959	0.938	0.938	0.906	0.892	0.922
Renting of M&Eq and other business activities	1.155	1.163	1.282	1.219	1.210	1.219	1.209	1.238
Public administration and defense; compulsory social security	0.681	0.709	0.731	0.719	0.711	0.693	0.681	0.701
Education	0.761	0.801	0.826	0.808	0.800	0.773	0.761	0.784
Health and social work	0.871	0.907	0.911	0.892	0.919	0.881	0.866	0.894
Other community, social, and personal services	0.735	0.755	0.773	0.771	0.781	0.754	0.741	0.767
Private households with employed persons	0.619	0.714	0.745	0.757	0.729	0.706	0.692	0.718
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.



# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 8.3

### Singapore

**Figure 8.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

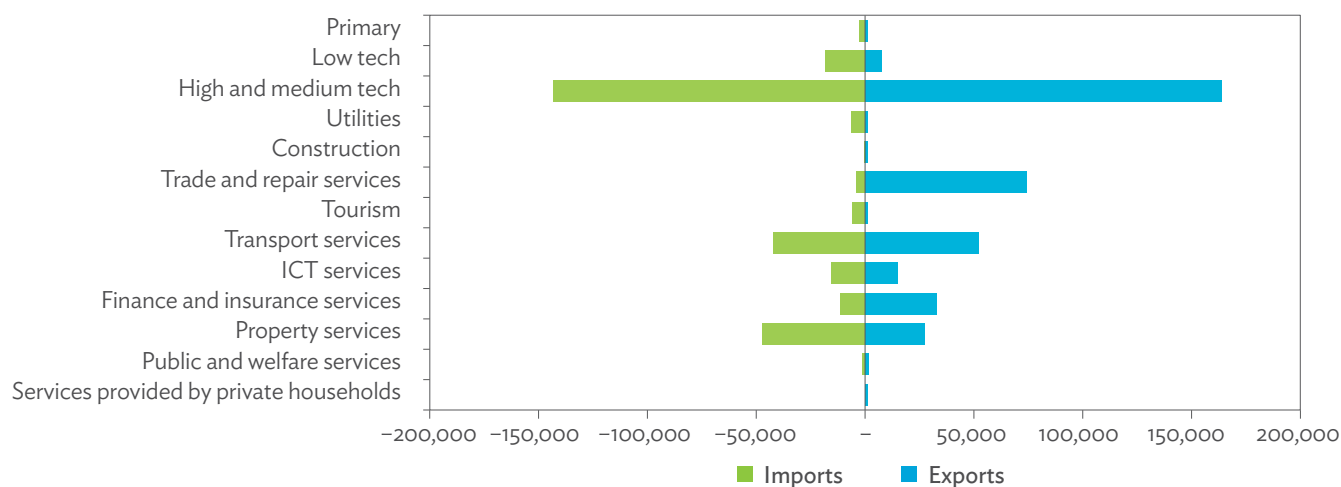


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

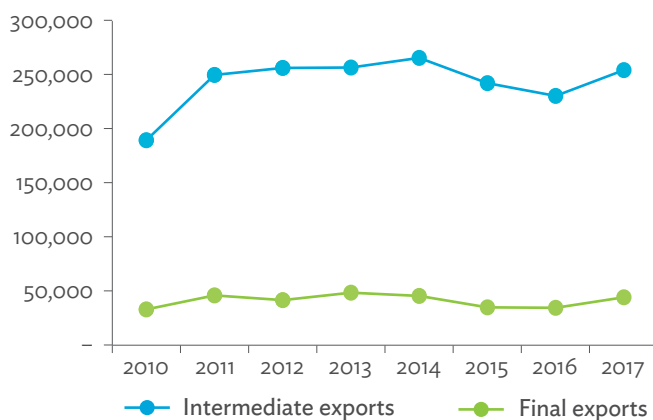


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

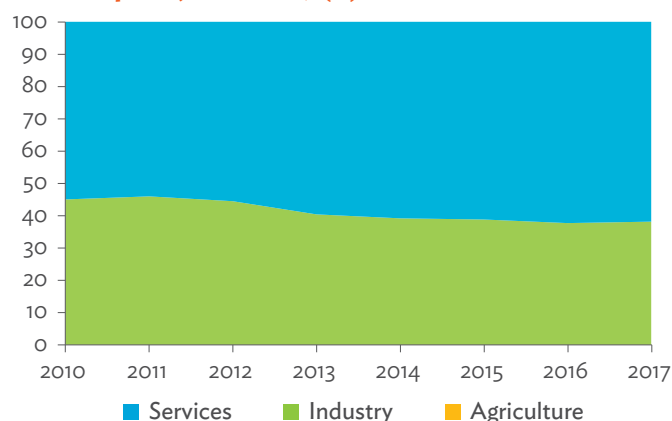


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

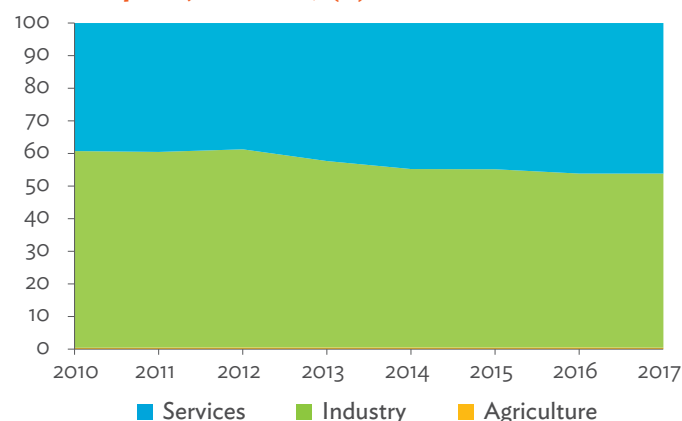
**Figure 8.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

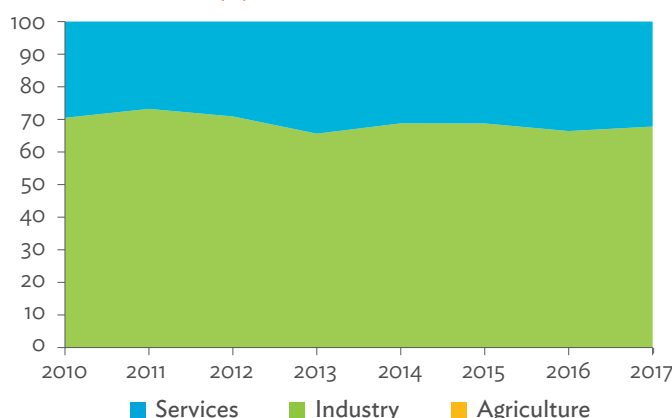
**Figure 8.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

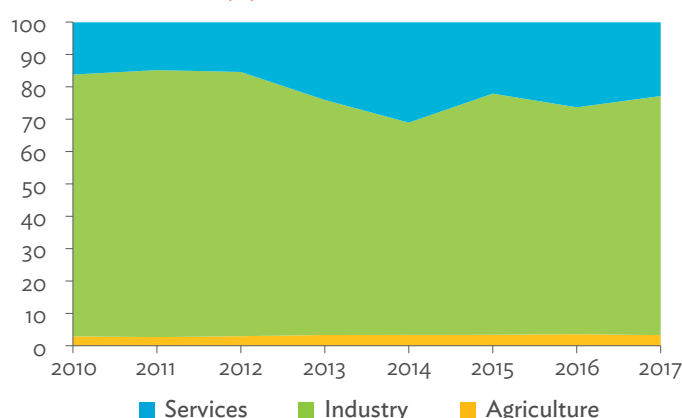
**Figure 8.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

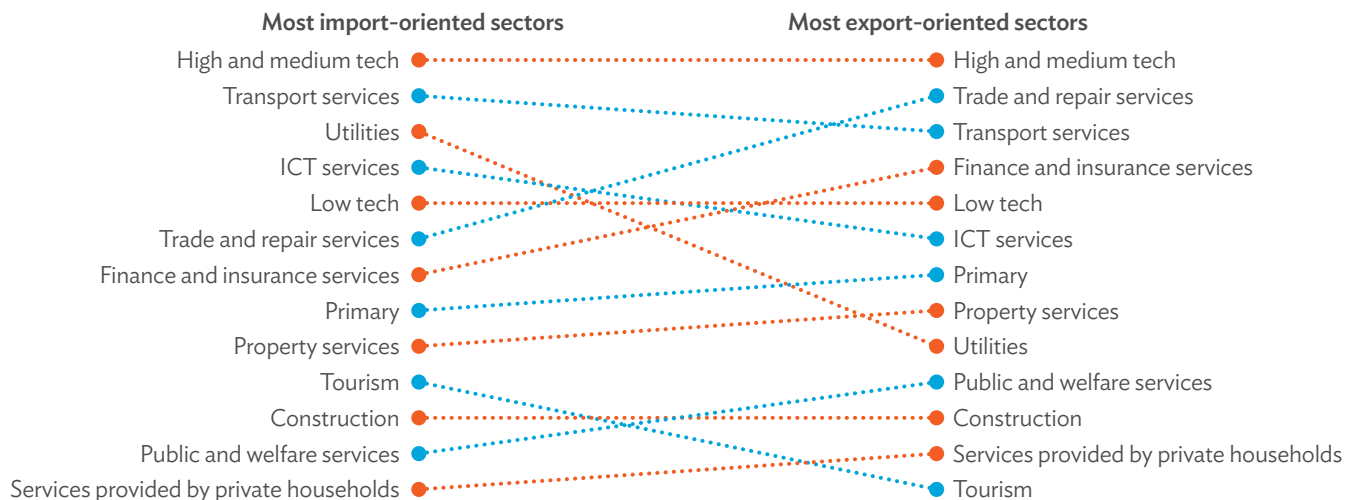
**Figure 8.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

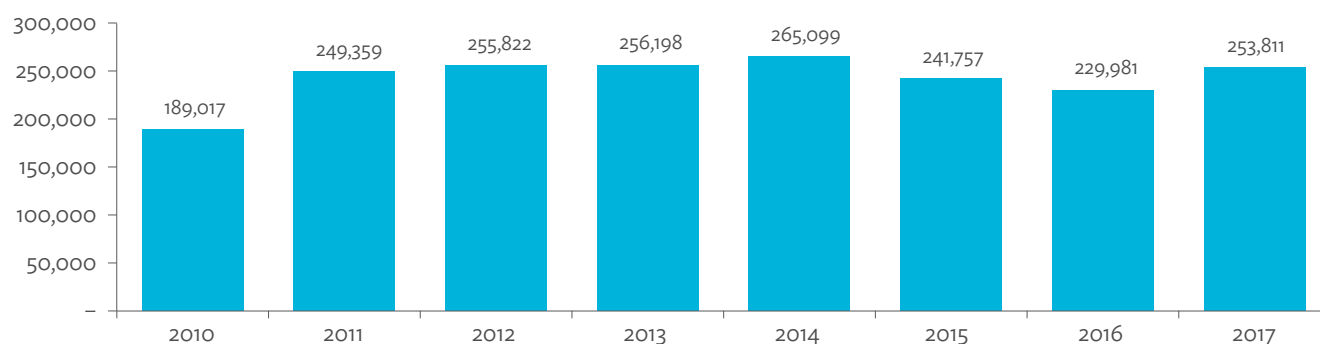


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

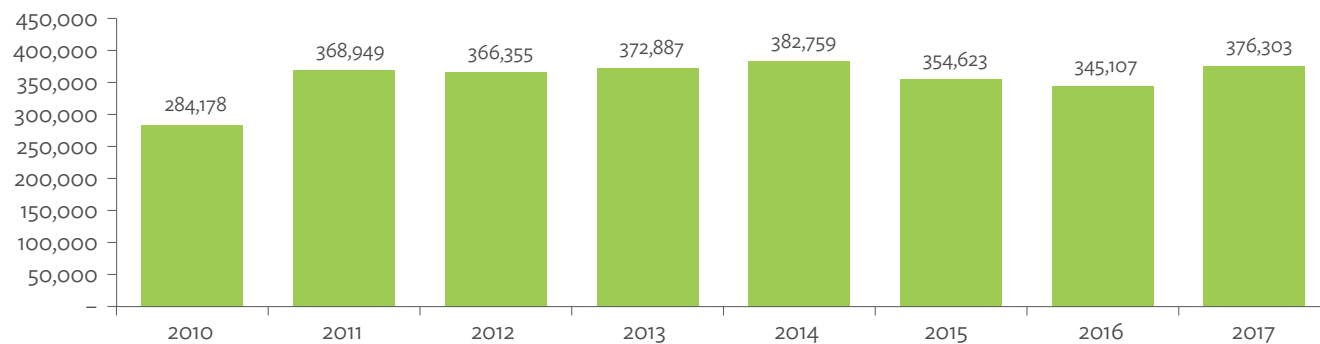


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

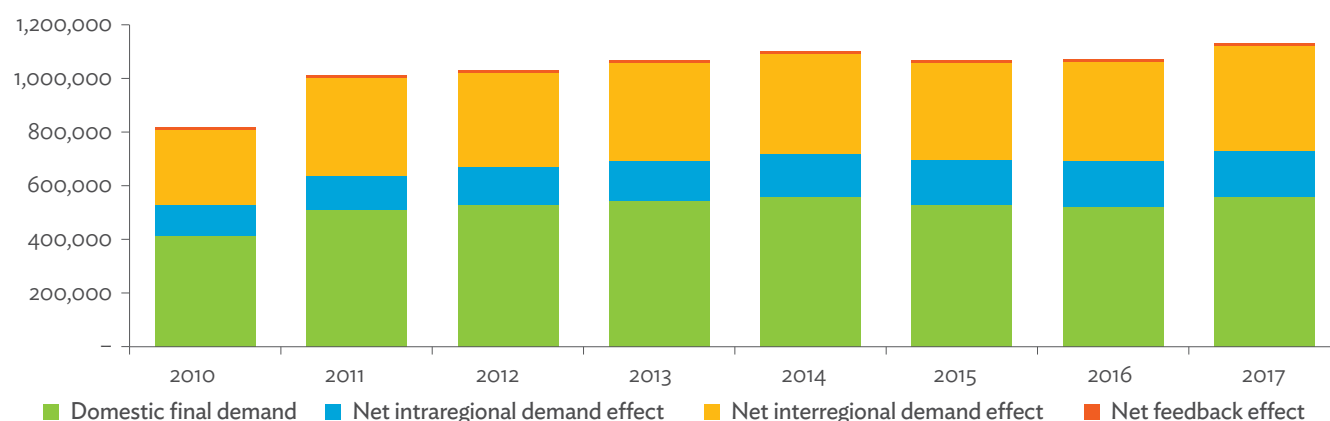


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

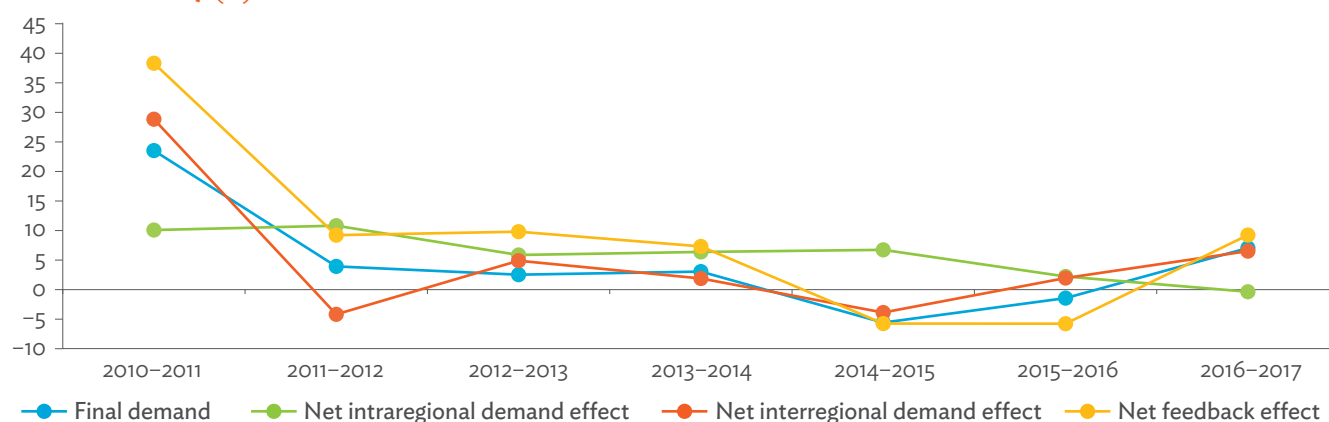


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

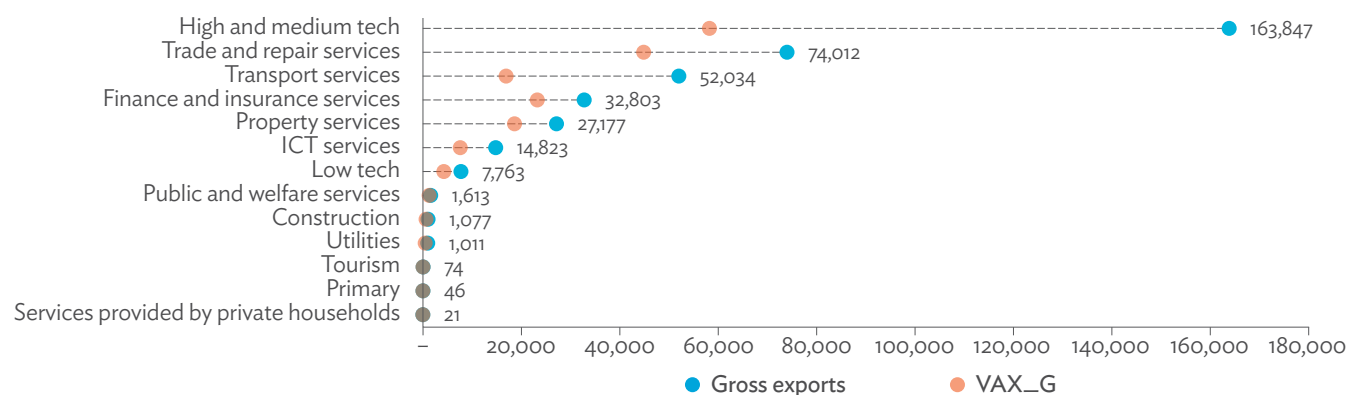
**Figure 8.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

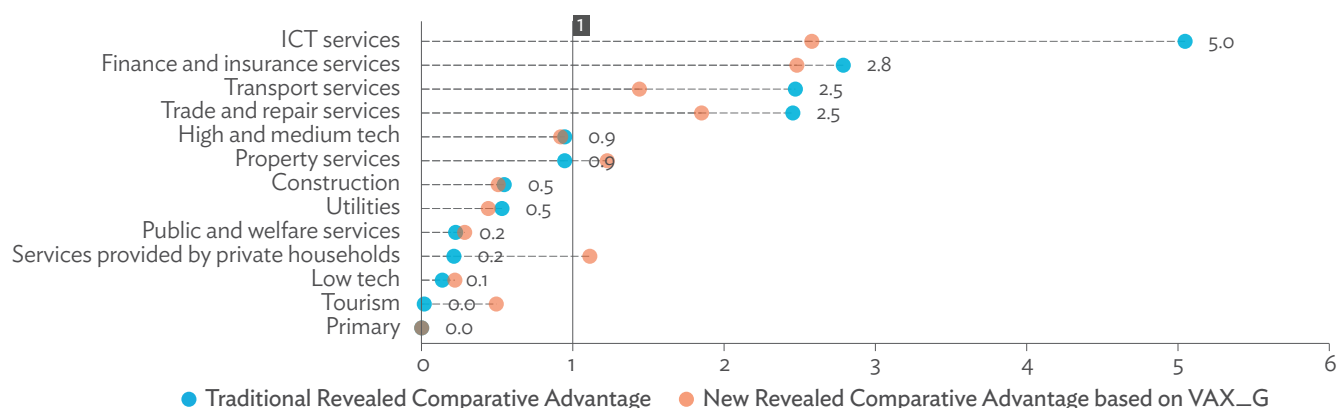


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 8.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	80	103	116	89	109	79	71	123
Low tech	33,663	38,332	41,513	43,038	45,015	43,983	42,969	43,232
High and medium tech	147,129	188,400	192,568	174,972	180,763	169,036	162,078	178,888
Business service	190,813	234,687	247,789	272,228	280,040	260,534	258,064	274,603
Personal service	41,261	48,614	48,215	53,285	54,284	55,320	58,169	61,243
Intraregional effects (M1)								
Primary	77	65	63	82	90	93	97	46
Low tech	25,020	27,115	32,508	34,557	37,914	37,172	36,563	31,376
High and medium tech	25,868	27,490	25,802	31,630	30,527	36,064	39,374	37,593
Business service	58,678	65,252	75,119	74,968	81,306	87,885	88,230	94,179
Personal service	6,044	7,434	7,650	8,183	9,115	8,444	9,168	9,620

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 8.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	11,836	14,079	12,950	13,286	13,037	12,065	11,590	11,954
Low tech	112,129	150,394	131,350	131,222	129,361	124,489	124,693	132,734
High and medium tech	162,464	204,595	209,056	226,097	235,348	226,762	234,010	249,761
Business service	1,910	2,439	2,624	2,799	2,720	2,423	2,639	2,799
Personal service	3,003	2,175	2,117	2,162	2,295	1,955	1,857	3,027
Feedback effects (M3)								
Primary	0.28	0.33	0.30	0.34	0.31	0.28	0.24	0.17
Low tech	63.35	85.18	82.88	85.27	81.62	75.32	73.06	71.42
High and medium tech	775.51	1,232.43	1,087.26	1,071.47	1,032.04	973.48	945.68	1,016.49
Business service	1,077.82	1,332.92	1,723.59	2,021.71	2,298.17	2,168.42	2,010.96	2,222.53
Personal service	9.77	14.08	16.66	17.38	17.74	15.41	16.62	17.40

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 8.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.5432	0.5455	0.5625	0.4673	0.4841	0.5192	0.5534	0.5321
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.5943	0.3776	0.5713	0.6381	0.6747	0.7231	0.7663	0.7259
Textiles and textile products	0.4499	0.1963	0.2977	0.2621	0.2073	0.3406	0.3859	0.3578
Leather, leather products, and footwear	0.4363	0.3791	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.5202	0.1947	0.3427	0.3876	0.4099	0.5901	0.6556	0.6156
Pulp, paper, paper products, printing, and publishing	0.4377	0.3736	0.3927	0.4105	0.4352	0.4589	0.4863	0.4701
Coke, refined petroleum, and nuclear fuel	0.4320	0.6047	0.3503	0.4350	0.4635	0.5634	0.6486	0.6005
Chemicals and chemical products	0.2112	0.2079	0.1774	0.2592	0.2561	0.2993	0.3423	0.3212
Rubber and plastics	0.6837	0.7383	0.6465	0.5767	0.6786	0.7312	0.7763	0.7503
Other nonmetallic minerals	0.6791	0.5871	0.4281	0.5973	0.6068	0.6724	0.7331	0.6797
Basic metals and fabricated metal	0.3657	0.3125	0.3381	0.3744	0.3651	0.4302	0.4839	0.4502
Machinery, nec	0.4720	0.5707	0.6571	0.6075	0.5918	0.6355	0.6932	0.6606
Electrical and optical equipment	0.4360	0.3359	0.2777	0.2974	0.3305	0.3975	0.4592	0.4242
Transport equipment	0.4479	0.2298	0.4483	0.4740	0.5152	0.5761	0.6314	0.5913
Manufacturing, nec; recycling	0.5041	0.3618	0.3373	0.3878	0.2815	0.3504	0.4041	0.3699
Electricity, gas, and water supply	0.5332	0.3782	0.4131	0.4194	0.3997	0.4567	0.5094	0.4789
Construction	1.0919	1.0719	1.1470	1.1647	1.2030	1.2405	1.2848	1.2157
Sale, maintenance, and repair	0.4484	0.3274	0.4659	0.4707	0.4971	0.5425	0.5698	0.5493
Wholesale trade and commission trade	0.3597	0.3136	0.3796	0.3857	0.3580	0.4002	0.4386	0.4152
Retail trade	0.6891	0.6549	0.7133	0.7046	0.7201	0.7743	0.7283	0.7216
Hotels and restaurants	0.5975	0.5257	0.5795	0.5977	0.5973	0.6472	0.6455	0.6234
Inland transport	0.6527	0.5360	0.6219	0.5680	0.6136	0.6294	0.6549	0.6419
Water transport	0.3981	0.2569	0.3884	0.4490	0.2936	0.3753	0.4449	0.4021
Air transport	0.4981	0.4283	0.4411	0.5019	0.4986	0.5646	0.6154	0.5823
Other supporting and auxiliary transport activities	0.6045	0.5895	0.4367	0.4378	0.4060	0.4423	0.4706	0.4514
Post and telecommunications	0.6799	0.7735	0.4491	0.4064	0.4907	0.5454	0.5938	0.5645
Financial intermediation	0.4236	0.3509	0.4170	0.4027	0.3714	0.4035	0.4449	0.4269
Real estate activities	0.5257	0.2945	0.5098	0.4868	0.4977	0.7909	0.4986	0.5338
Renting of M&Eq and other business activities	0.4478	0.6475	0.4655	0.4505	0.4330	0.3985	0.4954	0.4767
Public administration and defense; compulsory social security	0.7676	0.7668	0.7855	0.7357	0.8003	0.8336	0.8688	0.8465
Education	0.2887	0.2977	0.3098	0.3051	0.3086	0.3231	0.3337	0.3267
Health and social work	0.5384	0.5306	0.5415	0.5629	0.5411	0.5566	0.5735	0.5660
Other community, social, and personal services	0.5051	0.4817	0.4410	0.4434	0.4742	0.4899	0.5064	0.4955
Private households with employed persons	0.0028	0.1868	0.2783	0.2712	0.2611	0.2632	0.2626	0.2582

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 8.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.7784	0.7685	0.7325	0.7769	0.8430	0.8073	0.7757	0.8115
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	1.3705	1.3955	1.0628	1.0788	0.9927	0.9519	0.9115	0.9439
Textiles and textile products	1.7269	1.8225	1.5916	1.5610	1.4661	1.3231	1.2643	1.3130
Leather, leather products, and footwear	1.0784	1.0209	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	1.2308	1.7390	1.5862	1.5926	1.5680	1.8776	1.8040	1.8622
Pulp, paper, paper products, printing, and publishing	1.0331	1.0334	0.8757	0.8702	0.8421	0.7972	0.7673	0.7997
Coke, refined petroleum, and nuclear fuel	2.1842	2.2688	2.3858	2.4847	2.3411	2.3245	2.2999	2.3589
Chemicals and chemical products	1.1437	1.0966	1.0686	1.1100	1.0727	1.0195	0.9842	1.0153
Rubber and plastics	1.0580	1.0830	1.1632	1.3950	1.2388	1.2124	1.1957	1.2615
Other nonmetallic minerals	1.2387	1.3502	1.4886	1.6011	1.5955	1.5427	1.4868	1.5013
Basic metals and fabricated metal	1.6251	1.6826	1.6595	1.6389	1.6848	1.6123	1.5611	1.6215
Machinery, nec	1.3672	1.3644	1.3372	1.2155	1.2719	1.2016	1.1716	1.2032
Electrical and optical equipment	1.5547	1.6926	1.7857	1.7581	1.7143	1.6529	1.6037	1.6361
Transport equipment	1.2472	1.6290	1.4722	1.5062	1.5001	1.4491	1.4048	1.4125
Manufacturing, nec; recycling	1.4622	1.5831	1.5864	1.4704	1.5779	1.5273	1.4719	1.5144
Electricity, gas, and water supply	1.2313	1.4221	1.4290	1.3897	1.3816	1.3216	1.2711	1.3066
Construction	0.9666	1.0515	1.0232	1.0837	1.0121	0.9702	0.9403	0.9943
Sale, maintenance, and repair	1.3232	1.0199	1.0609	1.1276	1.0035	0.9923	0.9605	0.9932
Wholesale trade and commission trade	0.7297	0.8060	0.7941	0.8033	0.9299	0.8975	0.8598	0.8822
Retail trade	0.3327	0.3351	0.3486	0.3568	0.3526	0.4033	0.3775	0.4019
Hotels and restaurants	0.7841	0.7930	0.7277	0.7341	0.7196	0.7163	0.6737	0.7086
Inland transport	0.5170	0.4876	0.5827	0.6311	0.5626	0.5344	0.5325	0.5648
Water transport	1.6474	1.8523	1.7789	1.7495	1.7957	1.7527	1.6973	1.7376
Air transport	1.3101	1.5214	1.4732	1.4676	1.3973	1.3681	1.3255	1.3736
Other supporting and auxiliary transport activities	0.5853	0.6032	0.6996	0.7628	0.7403	0.7222	0.6992	0.7200
Post and telecommunications	0.7402	0.8136	1.0529	1.1051	1.0698	1.0319	0.9828	1.0160
Financial intermediation	0.5176	0.6148	0.5649	0.5633	0.5696	0.5419	0.5438	0.5524
Real estate activities	0.2316	0.1558	0.2551	0.2597	0.2498	0.3675	0.2285	0.2556
Renting of M&Eq and other business activities	0.7246	0.7868	0.6743	0.7156	0.7186	0.5888	0.6619	0.6835
Public administration and defense; compulsory social security	0.9414	0.9496	0.9004	0.9942	0.8716	0.8431	0.8168	0.8356
Education	0.2266	0.2582	0.2703	0.2740	0.2830	0.2811	0.2732	0.2806
Health and social work	0.4436	0.4599	0.4434	0.4910	0.4454	0.4449	0.4341	0.4444
Other community, social, and personal services	0.3929	0.3968	0.3852	0.3929	0.3921	0.3773	0.3706	0.3822
Private households with employed persons	0.0009	0.1339	0.2151	0.2138	0.2306	0.2252	0.2177	0.2301

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 8.3.5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0040	0.0045	0.0046	0.0045	0.0052	0.0050	0.0047	0.0052
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0058	0.0066	0.0060	0.0059	0.0066	0.0065	0.0059	0.0068
Textiles and textile products	0.0082	0.0093	0.0089	0.0082	0.0078	0.0078	0.0075	0.0080
Leather, leather products, and footwear	0.0042	0.0044	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0067	0.0101	0.0100	0.0098	0.0109	0.0134	0.0124	0.0133
Pulp, paper, paper products, printing, and publishing	0.0053	0.0060	0.0059	0.0058	0.0064	0.0062	0.0057	0.0063
Coke, refined petroleum, and nuclear fuel	0.0168	0.0198	0.0192	0.0192	0.0191	0.0195	0.0196	0.0199
Chemicals and chemical products	0.0049	0.0054	0.0052	0.0058	0.0058	0.0055	0.0053	0.0056
Rubber and plastics	0.0071	0.0082	0.0087	0.0100	0.0096	0.0097	0.0094	0.0099
Other nonmetallic minerals	0.0057	0.0071	0.0084	0.0094	0.0106	0.0107	0.0102	0.0105
Basic metals and fabricated metal	0.0067	0.0076	0.0075	0.0078	0.0085	0.0086	0.0082	0.0084
Machinery, nec	0.0077	0.0095	0.0100	0.0088	0.0091	0.0085	0.0080	0.0085
Electrical and optical equipment	0.0128	0.0159	0.0157	0.0150	0.0142	0.0131	0.0129	0.0130
Transport equipment	0.0064	0.0093	0.0084	0.0087	0.0089	0.0084	0.0079	0.0084
Manufacturing, nec; recycling	0.0074	0.0089	0.0088	0.0081	0.0088	0.0087	0.0083	0.0087
Electricity, gas, and water supply	0.0065	0.0067	0.0065	0.0058	0.0058	0.0056	0.0053	0.0057
Construction	0.0053	0.0064	0.0062	0.0067	0.0065	0.0064	0.0059	0.0065
Sale, maintenance, and repair	0.0083	0.0073	0.0074	0.0080	0.0071	0.0069	0.0066	0.0070
Wholesale trade and commission trade	0.0121	0.0120	0.0149	0.0173	0.0217	0.0207	0.0182	0.0191
Retail trade	0.0024	0.0024	0.0028	0.0029	0.0032	0.0039	0.0034	0.0039
Hotels and restaurants	0.0035	0.0039	0.0038	0.0039	0.0041	0.0042	0.0039	0.0043
Inland transport	0.0039	0.0040	0.0048	0.0052	0.0051	0.0050	0.0047	0.0051
Water transport	0.0269	0.0293	0.0411	0.0458	0.0486	0.0471	0.0428	0.0443
Air transport	0.0092	0.0123	0.0112	0.0108	0.0107	0.0104	0.0101	0.0107
Other supporting and auxiliary transport activities	0.0060	0.0055	0.0054	0.0062	0.0064	0.0065	0.0060	0.0063
Post and telecommunications	0.0050	0.0065	0.0079	0.0085	0.0082	0.0077	0.0069	0.0075
Financial intermediation	0.0024	0.0034	0.0032	0.0033	0.0035	0.0033	0.0031	0.0033
Real estate activities	0.0012	0.0009	0.0016	0.0016	0.0016	0.0024	0.0014	0.0017
Renting of M&Eq and other business activities	0.0038	0.0048	0.0042	0.0045	0.0046	0.0038	0.0041	0.0043
Public administration and defense; compulsory social security	0.0055	0.0063	0.0057	0.0063	0.0056	0.0054	0.0051	0.0053
Education	0.0014	0.0018	0.0019	0.0019	0.0020	0.0020	0.0019	0.0020
Health and social work	0.0026	0.0031	0.0031	0.0034	0.0032	0.0032	0.0031	0.0032
Other community, social, and personal services	0.0022	0.0025	0.0025	0.0025	0.0026	0.0025	0.0024	0.0025
Private households with employed persons	0.0000	0.0009	0.0014	0.0014	0.0015	0.0015	0.0014	0.0016

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 8.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	60	40	81	55	80	56	73	50	63	41	52	35	35	24	46	31
Low tech	6,710	3,257	8,314	3,890	7,766	3,999	7,644	3,926	8,133	4,333	7,432	4,099	6,301	3,482	7,763	4,287
High and medium tech	139,236	47,870	186,167	57,617	179,487	55,343	165,823	51,837	170,008	55,761	156,861	55,539	148,231	54,451	163,847	58,250
Utilities	899	453	1,146	498	1,050	459	1,075	493	1,170	538	1,058	515	1,011	507	1,011	495
Construction	876	547	1,543	924	1,818	1,113	1,967	1,173	1,398	868	1,267	809	1,066	690	1,077	678
Trade and repair services	58,024	38,763	72,489	46,614	74,537	48,142	81,409	52,210	77,313	45,391	66,223	39,928	70,808	43,646	74,012	44,887
Tourism	43	29	59	40	58	40	64	45	85	60	74	52	84	60	74	52
Transport services	39,111	14,528	41,711	13,174	47,511	15,277	50,437	16,370	54,527	16,414	52,861	17,054	47,909	16,487	52,034	16,937
ICT services	1,822	1,181	5,313	3,292	12,529	6,171	13,475	6,378	16,533	8,083	13,588	6,938	10,411	5,439	14,823	7,620
Finance and insurance services	18,754	13,558	25,337	17,057	24,350	17,082	28,843	20,353	31,208	21,911	29,141	20,887	29,316	20,965	32,803	23,274
Property services	17,639	11,580	25,578	16,459	15,654	10,934	20,297	13,761	20,722	13,968	24,570	17,967	28,473	19,813	27,177	18,645
Public and welfare services	1,001	799	1,190	940	1,476	1,175	1,752	1,377	1,578	1,264	1,477	1,189	1,443	1,160	1,613	1,297
Services provided by private households	2	2	21	20	39	36	26	24	21	19	20	18	20	18	21	19

\$ = United States dollar, ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 8.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.001	0.001
Low tech	0.164	0.266	0.159	0.271	0.150	0.244	0.141	0.239	0.143	0.244	0.140	0.233	0.122	0.212	0.138	0.221
High and medium tech	1.047	1.051	1.079	1.045	1.056	1.008	0.966	0.935	0.965	0.950	0.954	0.954	0.938	0.927	0.947	0.920
Utilities	0.707	0.555	0.695	0.542	0.629	0.534	0.623	0.489	0.651	0.523	0.614	0.479	0.484	0.467	0.532	0.441
Construction	0.785	0.641	1.090	0.807	1.223	0.868	0.980	0.829	0.710	0.721	0.671	0.675	0.504	0.596	0.547	0.507
Trade and repair services	2.609	2.217	2.541	2.296	2.554	2.253	2.788	2.222	2.571	1.977	2.328	1.739	2.542	1.834	2.455	1.851
Tourism	0.014	0.501	0.015	0.323	0.015	0.565	0.016	0.601	0.021	0.583	0.019	0.479	0.020	0.495	0.018	0.494
Transport services	2.308	1.643	2.027	1.383	2.292	1.417	2.445	1.428	2.558	1.524	2.635	1.536	2.487	1.429	2.471	1.440
ICT services	0.956	1.037	2.288	2.512	4.944	3.243	5.267	3.431	6.222	3.669	5.453	3.055	4.095	2.760	5.047	2.580
Finance and insurance services	2.143	2.027	2.359	2.172	2.296	2.228	2.580	2.416	2.673	2.478	2.630	2.289	2.614	2.259	2.788	2.481
Property services	0.949	1.062	1.083	1.070	0.669	1.002	0.802	1.038	0.767	1.049	0.941	1.282	1.089	1.324	0.947	1.228
Public and welfare services	0.189	0.261	0.185	0.286	0.224	0.308	0.245	0.296	0.217	0.297	0.209	0.259	0.197	0.266	0.226	0.285
Services provided by private households	0.015	0.022	0.121	0.435	0.186	0.625	0.170	0.997	0.168	0.940	0.183	0.881	0.207	1.083	0.214	1.113

ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

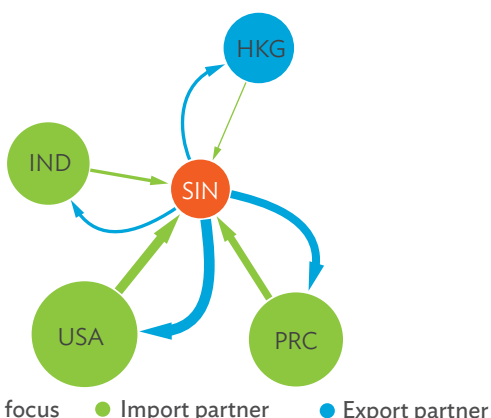
Source: Asian Development Bank Multi-Regional Input-Output Database.

# 8.4

## GLOBAL VALUE CHAIN INDICATORS

### Singapore

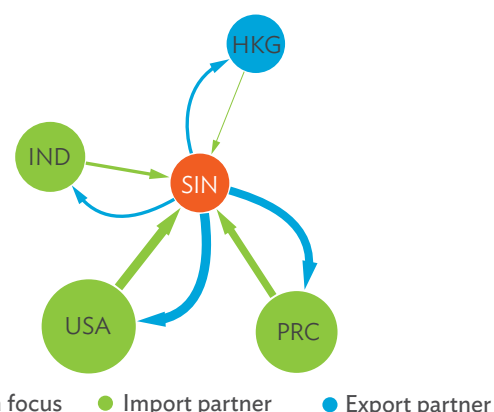
**Figure 8.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



HKG = Hong Kong, China; IND = India; PRC = People's Republic of China; SIN = Singapore; USA = United States.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

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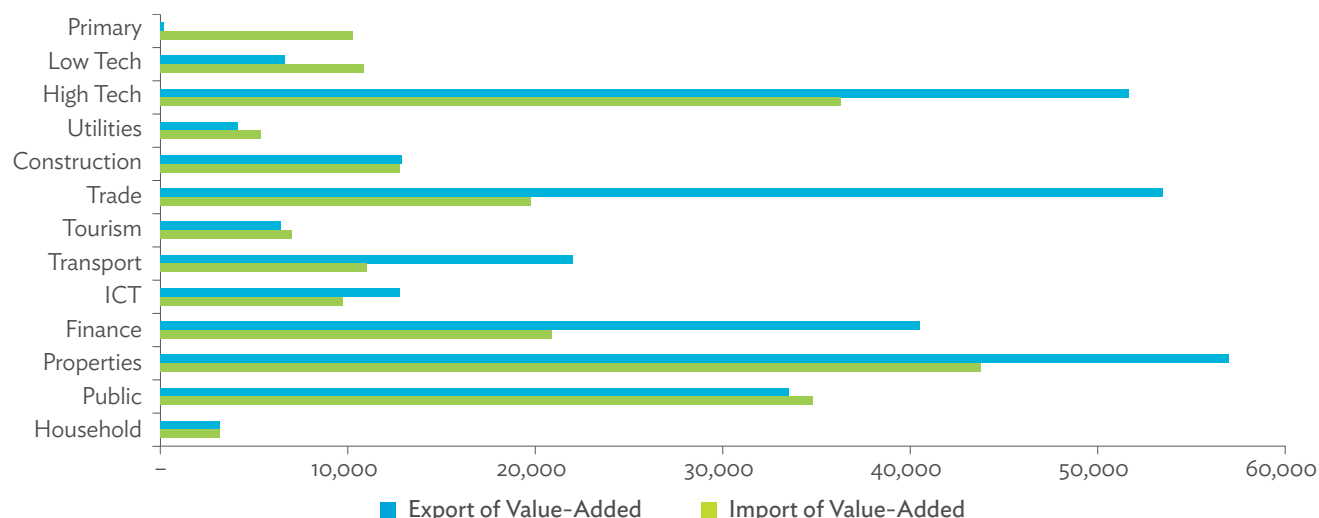
**Figure 8.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



HKG = Hong Kong, China; IND = India; PRC = People's Republic of China; SIN = Singapore; USA = United States.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 8.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

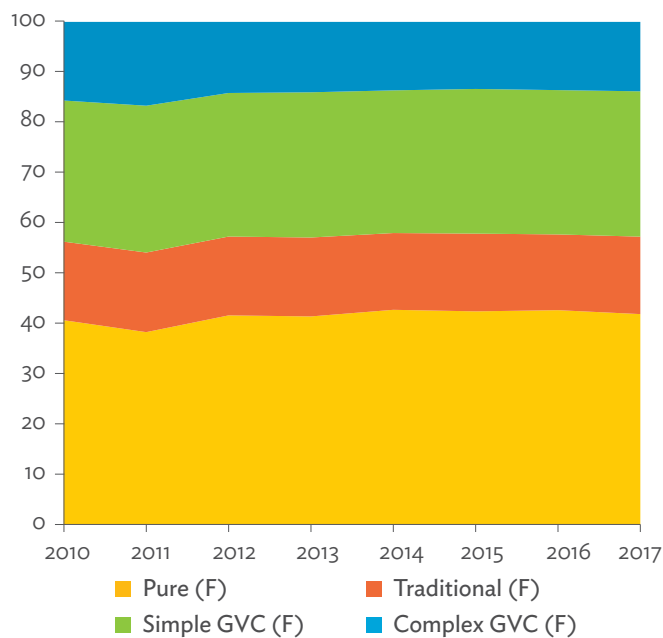
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**Figure 8.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

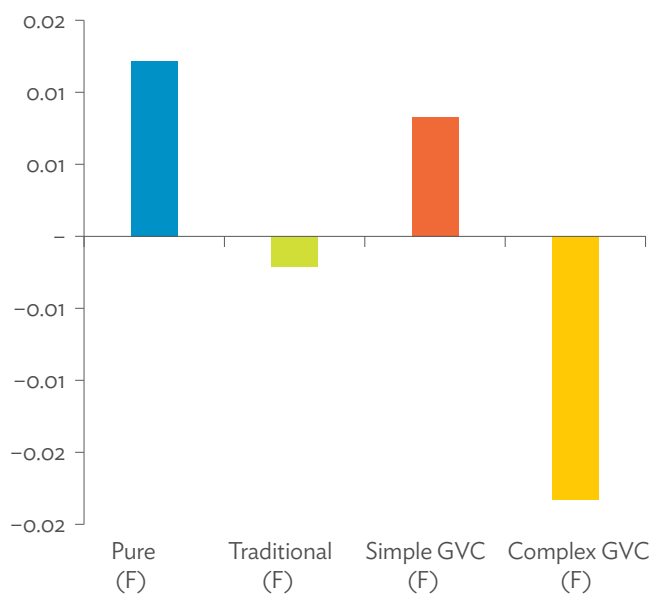
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**Figure 8.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

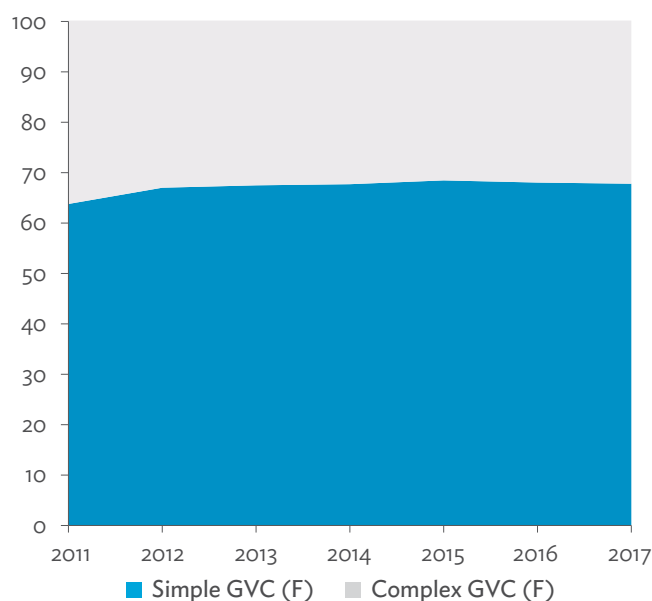
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

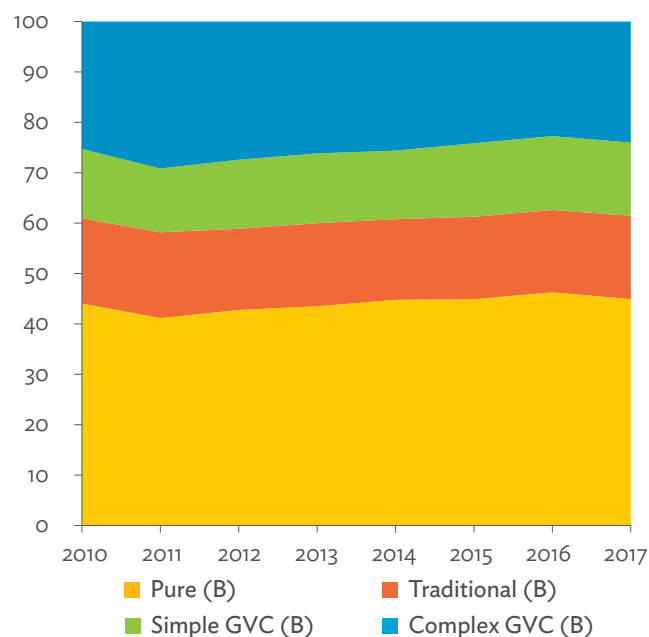


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 8.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

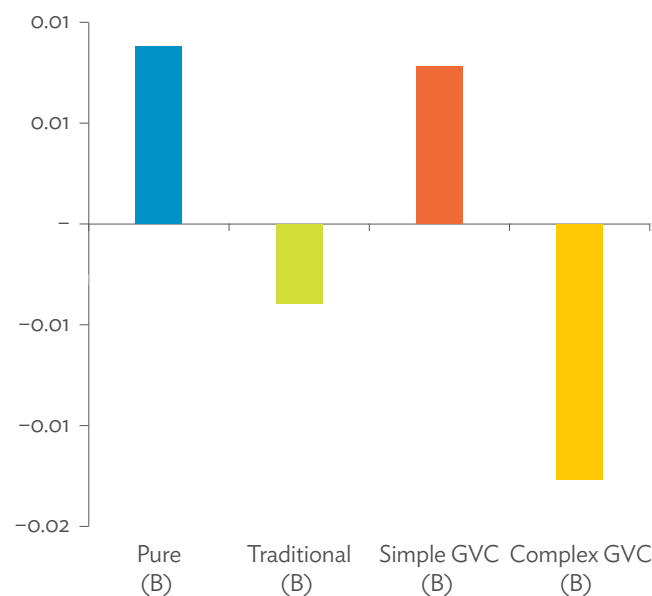


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 8.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



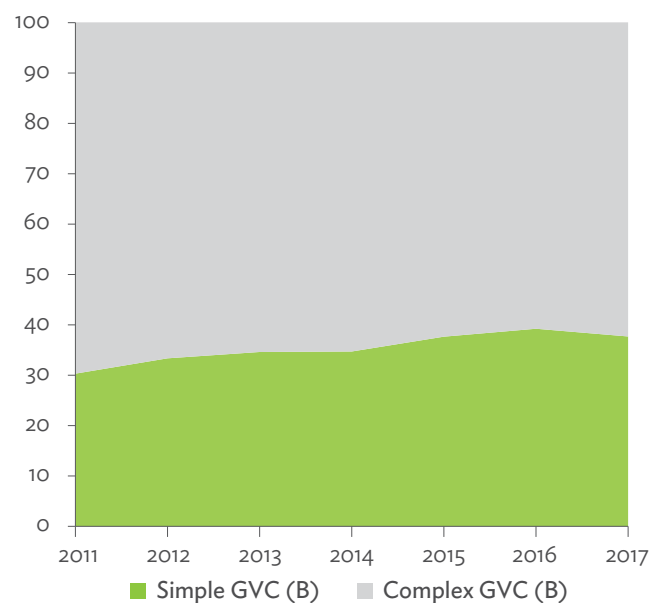
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 8.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

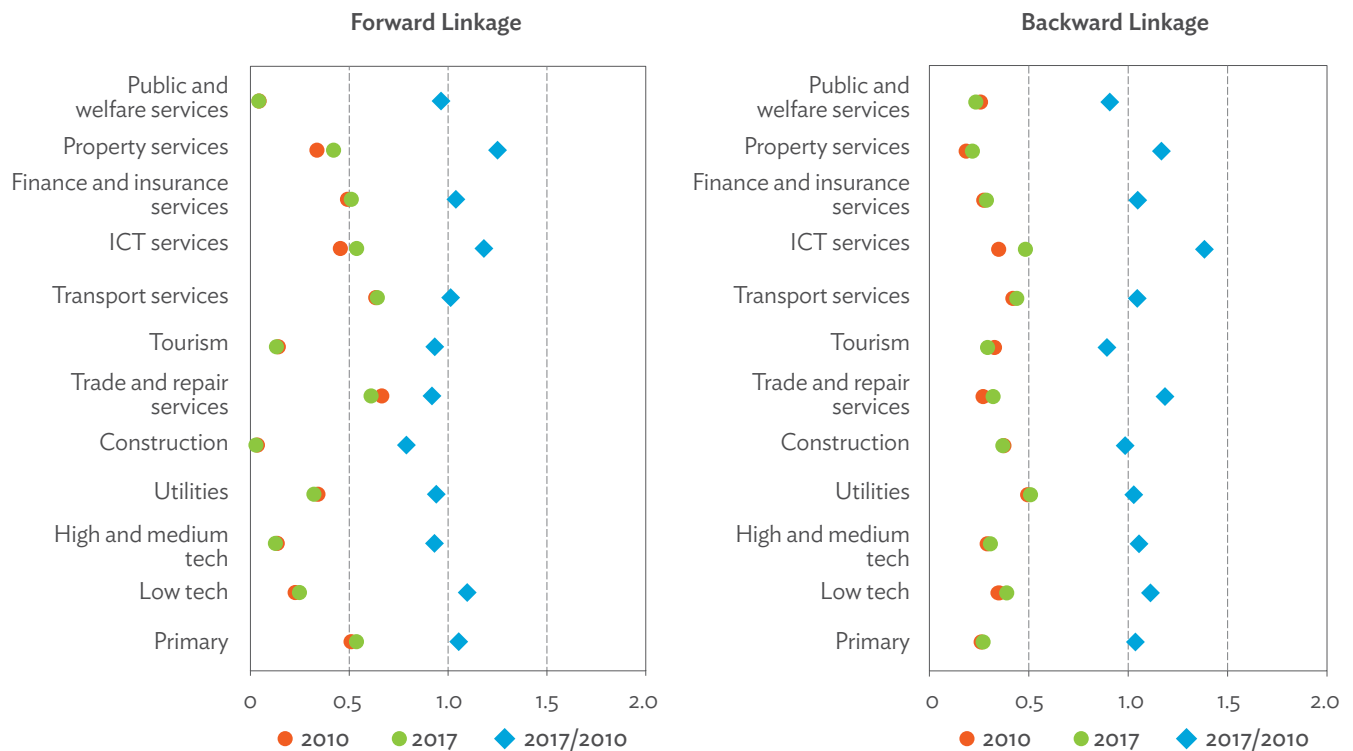


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 8.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

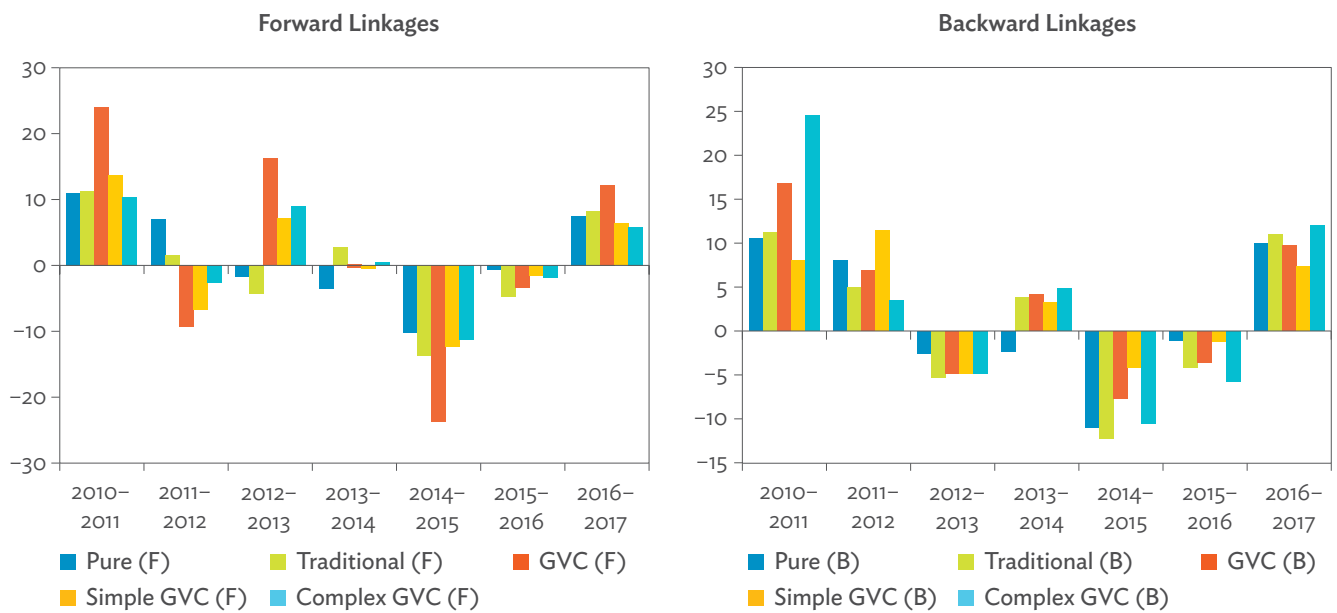


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 8.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

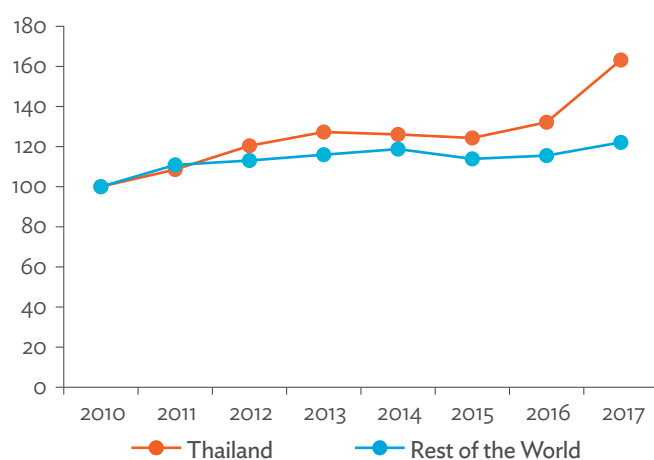
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# 9.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Thailand

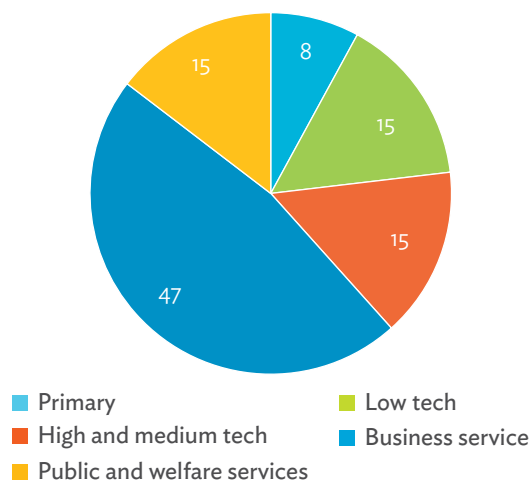
**Figure 9.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

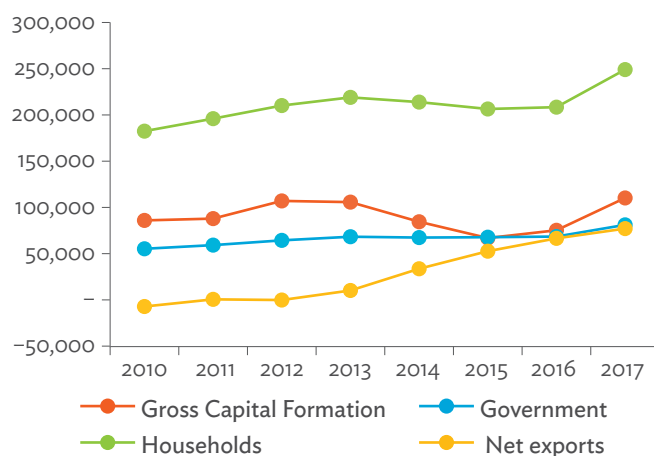
**Figure 9.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

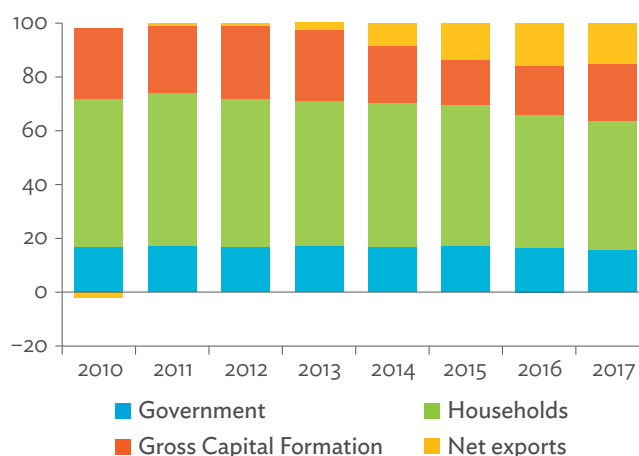


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

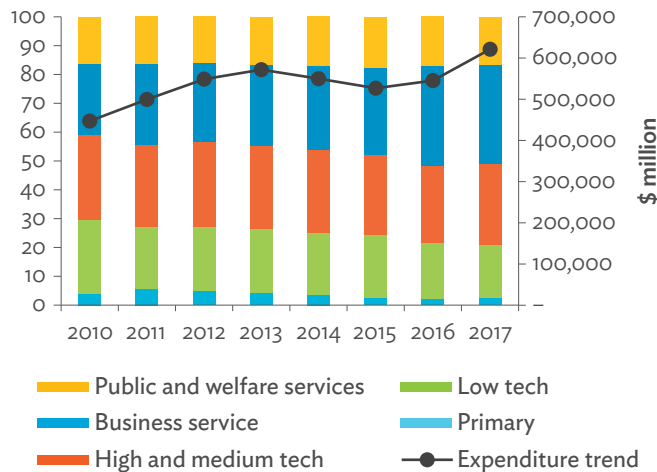
**Figure 9.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

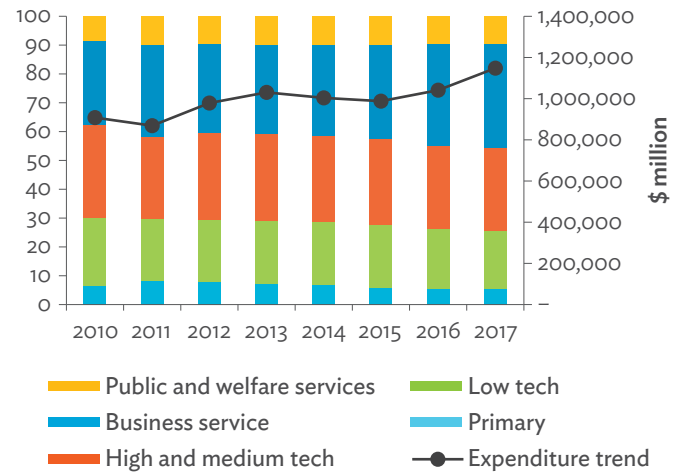


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

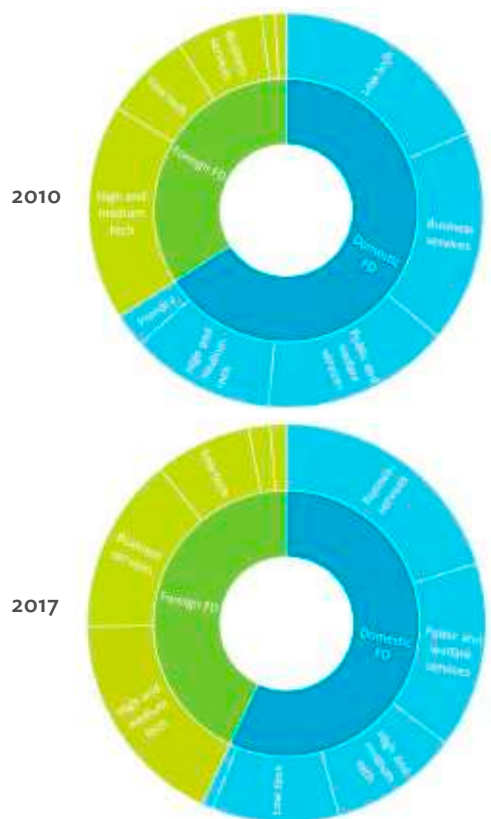


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

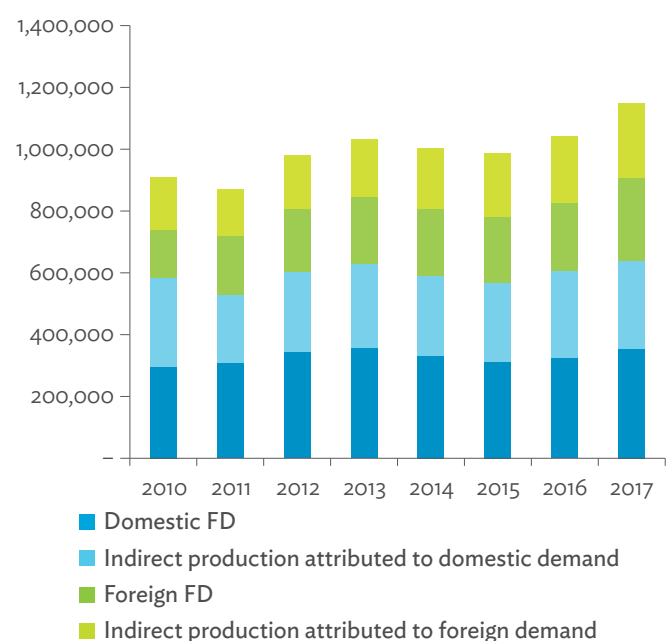


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

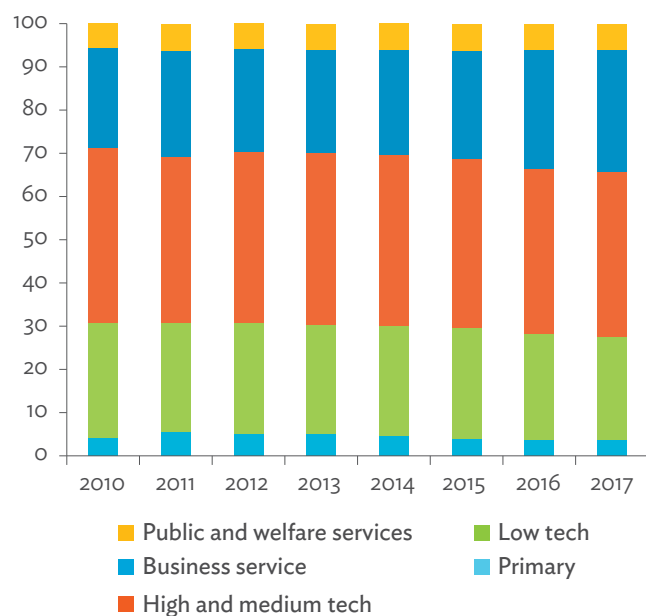


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

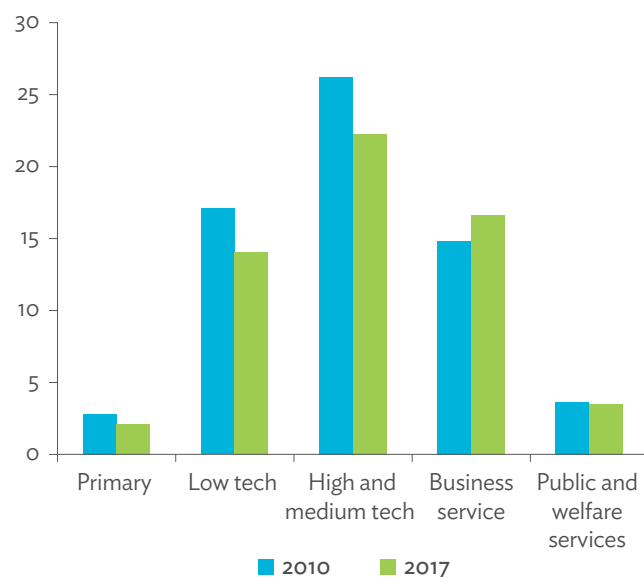
**Figure 9.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

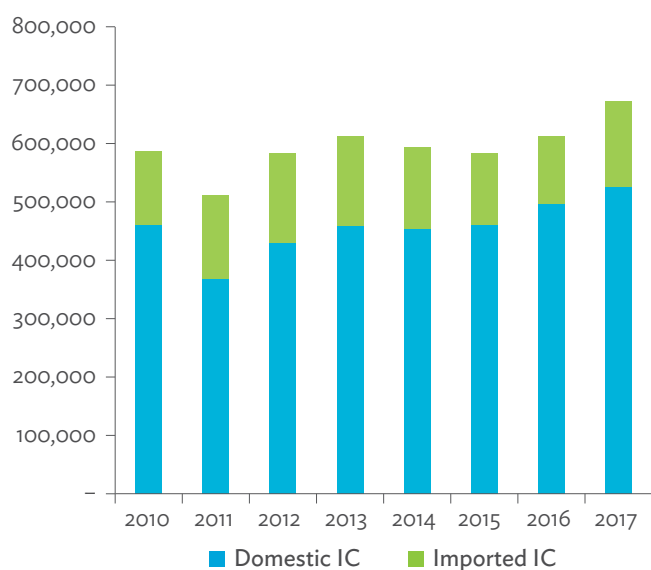
**Figure 9.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

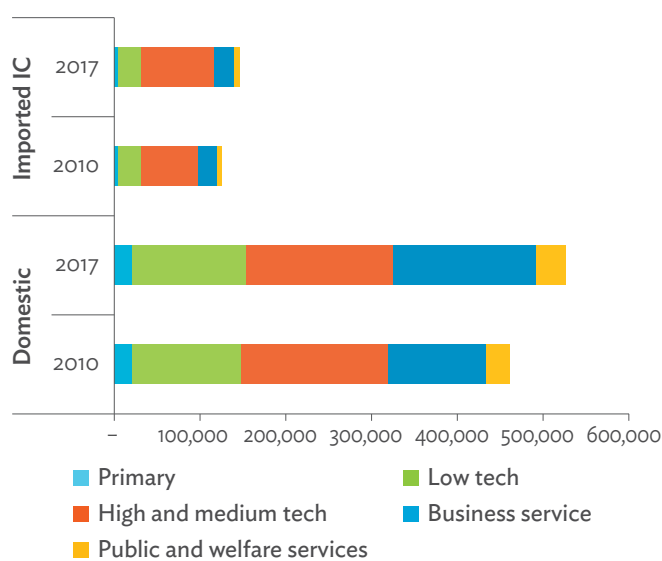


\$ = United States dollar, IC= intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**



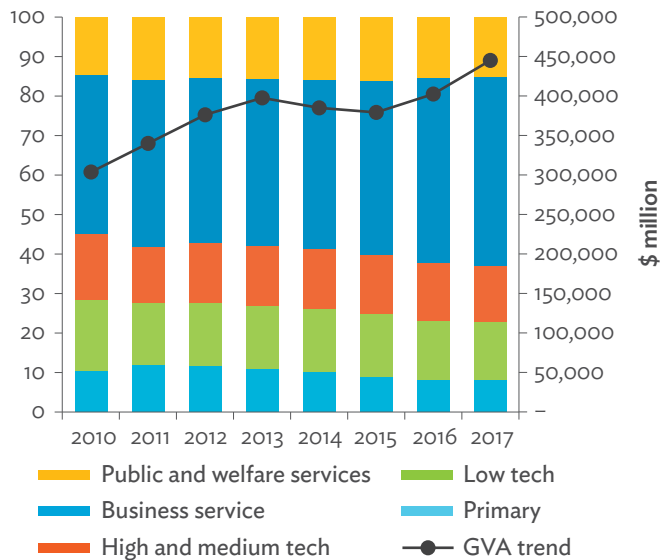
\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Figure 9.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

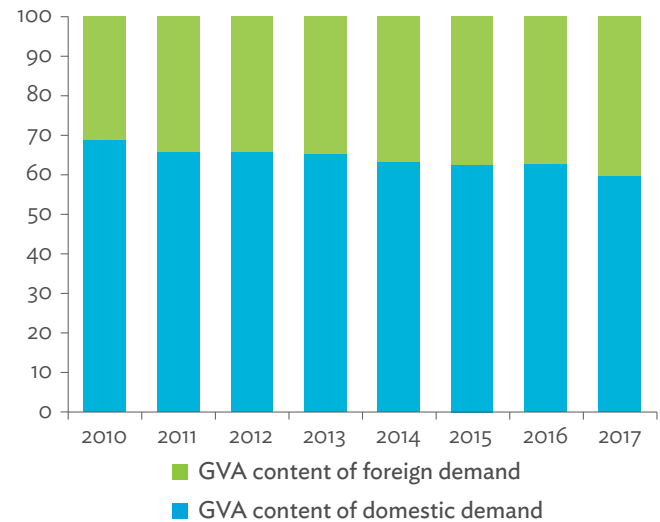


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

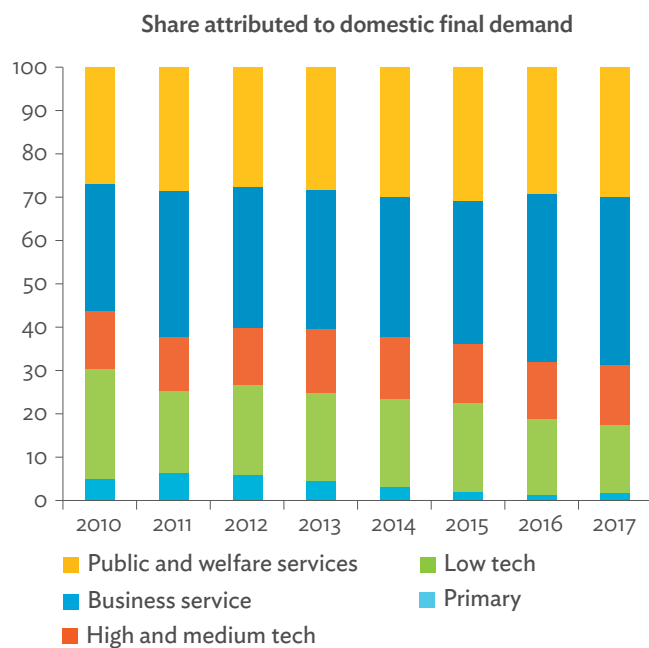


GVA = gross value added.

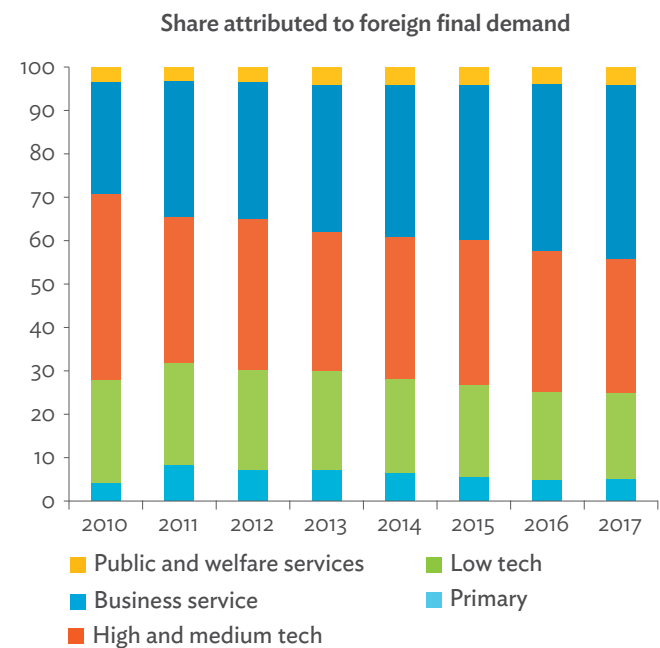
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.



[Click here for figure data](#)

**Table 9.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.849	0.857	0.857	0.859	0.855	0.857	0.864	0.862
Mining and quarrying	0.652	0.637	0.645	0.650	0.648	0.662	0.682	0.668
Food, beverages, and tobacco	0.683	0.712	0.723	0.729	0.727	0.736	0.751	0.738
Textiles and textile products	0.705	0.642	0.652	0.663	0.665	0.676	0.694	0.683
Leather, leather products, and footwear	0.718	0.678	0.690	0.699	0.700	0.715	0.732	0.718
Wood and products of wood and cork	0.739	0.767	0.778	0.785	0.786	0.797	0.808	0.797
Pulp, paper, paper products, printing, and publishing	0.820	0.832	0.840	0.846	0.846	0.854	0.864	0.856
Coke, refined petroleum, and nuclear fuel	0.427	0.197	0.220	0.225	0.236	0.238	0.258	0.236
Chemicals and chemical products	0.572	0.457	0.469	0.481	0.494	0.510	0.532	0.514
Rubber and plastics	0.700	0.691	0.694	0.706	0.713	0.723	0.737	0.725
Other nonmetallic minerals	0.516	0.335	0.356	0.369	0.385	0.421	0.447	0.412
Basic metals and fabricated metal	0.493	0.464	0.483	0.496	0.510	0.540	0.565	0.537
Machinery, nec	0.604	0.584	0.603	0.613	0.621	0.645	0.666	0.644
Electrical and optical equipment	0.624	0.562	0.581	0.594	0.600	0.626	0.648	0.625
Transport equipment	0.568	0.609	0.624	0.634	0.640	0.662	0.680	0.659
Manufacturing, nec; recycling	0.630	0.597	0.612	0.624	0.627	0.647	0.666	0.648
Electricity, gas, and water supply	0.705	0.649	0.643	0.660	0.671	0.689	0.706	0.689
Construction	0.567	0.539	0.543	0.551	0.552	0.575	0.597	0.578
Sale, maintenance, and repair	0.667	0.677	0.686	0.695	0.702	0.718	0.738	0.725
Wholesale trade and commission trade	0.810	0.827	0.830	0.836	0.836	0.845	0.854	0.847
Retail trade	0.805	0.826	0.831	0.836	0.836	0.845	0.855	0.847
Hotels and restaurants	0.758	0.780	0.783	0.789	0.784	0.791	0.802	0.795
Inland transport	0.731	0.716	0.725	0.722	0.713	0.696	0.714	0.728
Water transport	0.560	0.528	0.544	0.546	0.544	0.538	0.561	0.564
Air transport	0.601	0.588	0.604	0.607	0.603	0.600	0.619	0.622
Other supporting and auxiliary transport activities	0.724	0.769	0.777	0.782	0.781	0.789	0.802	0.794
Post and telecommunications	0.774	0.783	0.796	0.805	0.807	0.818	0.829	0.820
Financial intermediation	0.889	0.898	0.903	0.908	0.907	0.909	0.915	0.914
Real estate activities	0.885	0.889	0.891	0.895	0.892	0.898	0.904	0.900
Renting of M&Eq and other business activities	0.752	0.778	0.788	0.793	0.792	0.803	0.815	0.806
Public administration and defense; compulsory social security	0.850	0.865	0.866	0.871	0.870	0.876	0.884	0.880
Education	0.807	0.827	0.829	0.836	0.836	0.845	0.854	0.847
Health and social work	0.746	0.752	0.749	0.761	0.765	0.776	0.788	0.778
Other community, social, and personal services	0.831	0.850	0.854	0.860	0.859	0.866	0.874	0.868
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 9.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.124	0.119	0.118	0.117	0.113	0.110	0.102	0.106
Mining and quarrying	0.295	0.314	0.306	0.300	0.288	0.270	0.250	0.267
Food, beverages, and tobacco	0.269	0.243	0.230	0.224	0.213	0.201	0.187	0.201
Textiles and textile products	0.250	0.317	0.305	0.294	0.278	0.264	0.245	0.260
Leather, leather products, and footwear	0.237	0.281	0.267	0.258	0.244	0.227	0.210	0.226
Wood and products of wood and cork	0.231	0.208	0.197	0.190	0.180	0.168	0.157	0.169
Pulp, paper, paper products, printing, and publishing	0.156	0.148	0.140	0.134	0.127	0.118	0.109	0.118
Coke, refined petroleum, and nuclear fuel	0.460	0.722	0.696	0.689	0.650	0.637	0.613	0.646
Chemicals and chemical products	0.357	0.486	0.472	0.459	0.427	0.406	0.383	0.407
Rubber and plastics	0.255	0.271	0.266	0.254	0.236	0.223	0.209	0.223
Other nonmetallic minerals	0.421	0.617	0.594	0.580	0.547	0.508	0.480	0.521
Basic metals and fabricated metal	0.480	0.514	0.493	0.480	0.458	0.424	0.400	0.430
Machinery, nec	0.361	0.386	0.367	0.356	0.338	0.312	0.291	0.315
Electrical and optical equipment	0.337	0.402	0.381	0.369	0.351	0.323	0.301	0.325
Transport equipment	0.395	0.360	0.344	0.334	0.318	0.293	0.276	0.298
Manufacturing, nec; recycling	0.315	0.354	0.338	0.325	0.307	0.285	0.266	0.286
Electricity, gas, and water supply	0.253	0.315	0.322	0.303	0.281	0.260	0.243	0.263
Construction	0.379	0.416	0.411	0.403	0.387	0.361	0.339	0.361
Sale, maintenance, and repair	0.305	0.300	0.290	0.281	0.267	0.248	0.227	0.242
Wholesale trade and commission trade	0.163	0.150	0.147	0.141	0.134	0.124	0.114	0.122
Retail trade	0.170	0.152	0.147	0.142	0.135	0.124	0.114	0.123
Hotels and restaurants	0.187	0.168	0.165	0.158	0.148	0.140	0.129	0.138
Inland transport	0.217	0.240	0.231	0.233	0.227	0.237	0.219	0.212
Water transport	0.385	0.424	0.407	0.403	0.389	0.387	0.363	0.368
Air transport	0.346	0.363	0.347	0.343	0.330	0.327	0.307	0.311
Other supporting and auxiliary transport activities	0.240	0.200	0.191	0.187	0.178	0.168	0.154	0.164
Post and telecommunications	0.190	0.185	0.171	0.162	0.150	0.137	0.127	0.137
Financial intermediation	0.091	0.084	0.078	0.074	0.068	0.066	0.060	0.062
Real estate activities	0.091	0.089	0.086	0.082	0.078	0.072	0.066	0.070
Renting of M&Eq and other business activities	0.212	0.191	0.180	0.175	0.166	0.154	0.142	0.152
Public administration and defense; compulsory social security	0.128	0.116	0.115	0.110	0.105	0.098	0.089	0.094
Education	0.166	0.149	0.147	0.140	0.132	0.122	0.113	0.121
Health and social work	0.220	0.217	0.220	0.207	0.193	0.180	0.168	0.180
Other community, social, and personal services	0.142	0.126	0.122	0.117	0.110	0.102	0.094	0.101
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 9.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.579	1.453	1.470	1.467	1.471	1.498	1.510	1.478
Mining and quarrying	2.282	2.029	2.060	2.073	2.085	2.140	2.171	2.097
Food, beverages, and tobacco	2.311	2.181	2.233	2.244	2.254	2.313	2.332	2.274
Textiles and textile products	2.168	2.001	2.064	2.079	2.101	2.157	2.192	2.117
Leather, leather products, and footwear	1.957	1.805	1.864	1.876	1.893	1.939	1.965	1.903
Wood and products of wood and cork	2.153	1.831	1.869	1.877	1.895	1.931	1.954	1.906
Pulp, paper, paper products, printing, and publishing	1.727	1.515	1.545	1.546	1.559	1.583	1.596	1.564
Coke, refined petroleum, and nuclear fuel	2.550	1.675	1.763	1.825	1.883	2.014	2.105	1.924
Chemicals and chemical products	2.485	1.971	2.062	2.087	2.115	2.201	2.255	2.138
Rubber and plastics	2.186	1.868	1.927	1.935	1.946	1.996	2.027	1.962
Other nonmetallic minerals	2.393	1.749	1.833	1.879	1.934	2.041	2.103	1.954
Basic metals and fabricated metal	2.158	1.859	1.938	1.975	2.030	2.119	2.178	2.056
Machinery, nec	2.061	1.766	1.832	1.855	1.889	1.952	1.990	1.903
Electrical and optical equipment	2.033	1.844	1.913	1.935	1.968	2.032	2.071	1.981
Transport equipment	2.153	1.751	1.807	1.832	1.865	1.926	1.966	1.883
Manufacturing, nec; recycling	2.195	1.882	1.947	1.967	1.989	2.047	2.083	2.002
Electricity, gas, and water supply	1.903	1.582	1.571	1.607	1.650	1.701	1.730	1.654
Construction	2.293	1.905	1.944	1.960	1.983	2.058	2.103	2.000
Sale, maintenance, and repair	2.189	1.961	1.990	2.000	2.023	2.073	2.105	2.040
Wholesale trade and commission trade	1.717	1.528	1.543	1.547	1.559	1.584	1.599	1.566
Retail trade	1.698	1.522	1.540	1.542	1.553	1.578	1.594	1.561
Hotels and restaurants	2.118	1.925	1.950	1.964	1.972	2.010	2.019	1.978
Inland transport	2.066	1.752	1.777	1.792	1.811	1.865	1.894	1.821
Water transport	2.050	1.802	1.850	1.876	1.907	1.991	2.041	1.930
Air transport	2.222	2.012	2.058	2.077	2.097	2.168	2.203	2.112
Other supporting and auxiliary transport activities	2.037	1.726	1.751	1.760	1.774	1.810	1.830	1.786
Post and telecommunications	1.903	1.720	1.754	1.768	1.786	1.813	1.828	1.791
Financial intermediation	1.523	1.400	1.414	1.418	1.430	1.444	1.451	1.433
Real estate activities	1.594	1.484	1.491	1.490	1.497	1.510	1.518	1.497
Renting of M&Eq and other business activities	1.981	1.699	1.734	1.739	1.750	1.781	1.801	1.760
Public administration and defense; compulsory social security	1.580	1.430	1.439	1.444	1.459	1.480	1.494	1.469
Education	1.781	1.573	1.586	1.595	1.612	1.639	1.655	1.622
Health and social work	1.756	1.606	1.620	1.639	1.665	1.704	1.728	1.677
Other community, social, and personal services	1.674	1.476	1.495	1.500	1.513	1.534	1.546	1.518
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

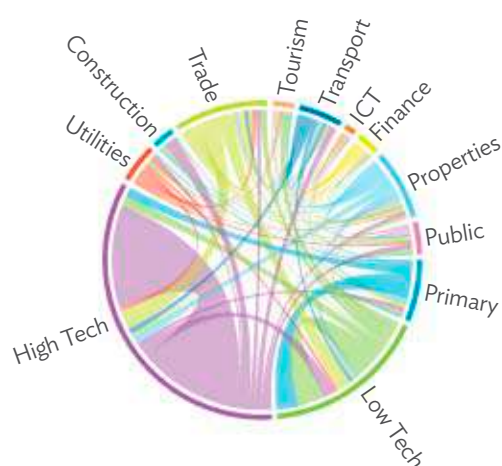
Source: Asian Development Bank Multi-Regional Input-Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 9.2

### Thailand

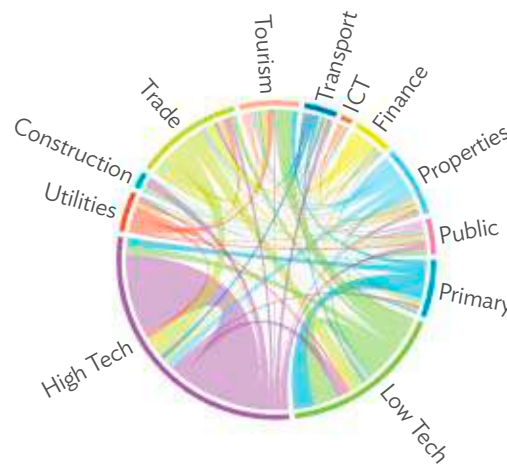
**Figure 9.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

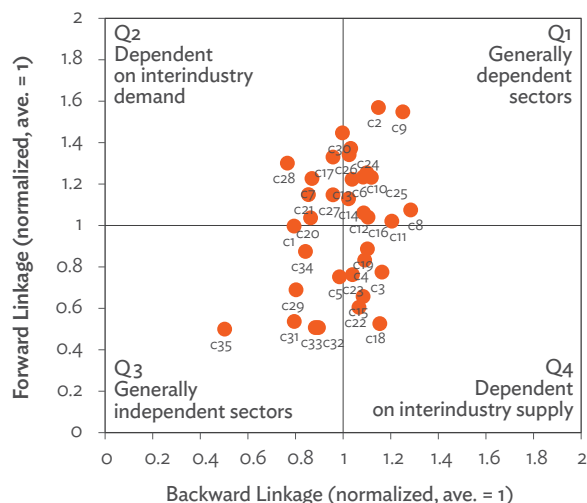
**Figure 9.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

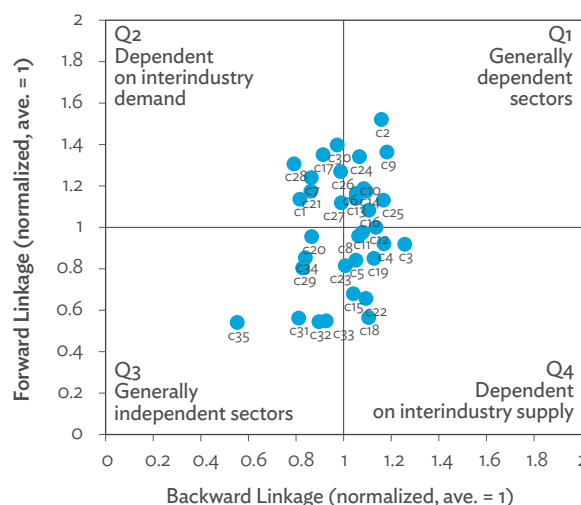
**Figure 9.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

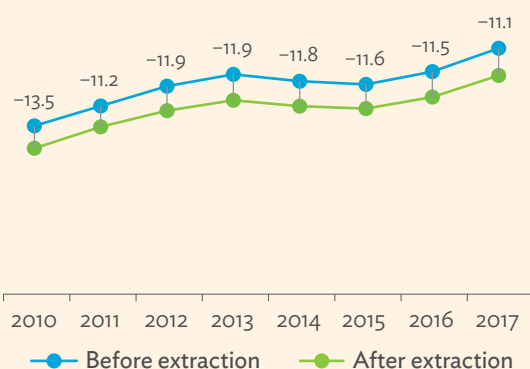
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**Figure 9.2.2b: Backward and Forward Linkages by Industry, 2017**

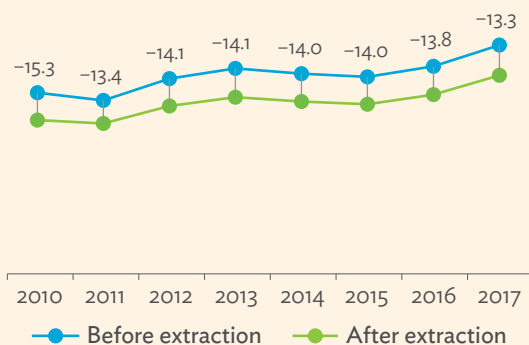


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

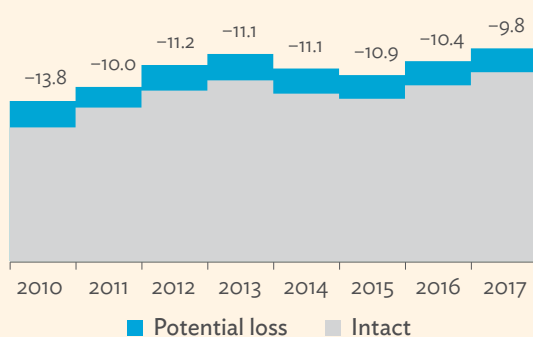
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**Box 9: Hypothetical Extraction of Food, Beverages, and Tobacco Industry in Thailand****Figure 9.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**

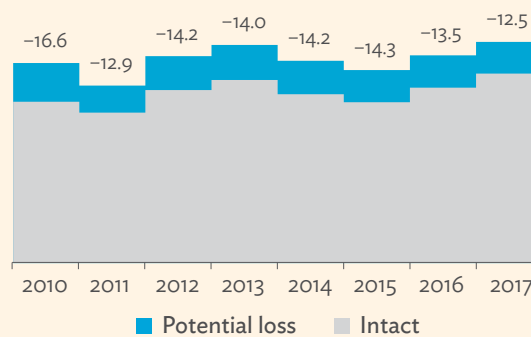
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 9.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**

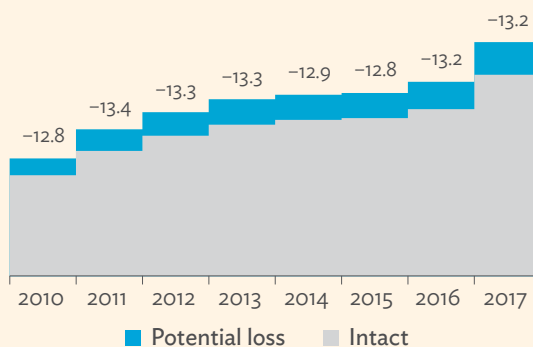
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 9.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**

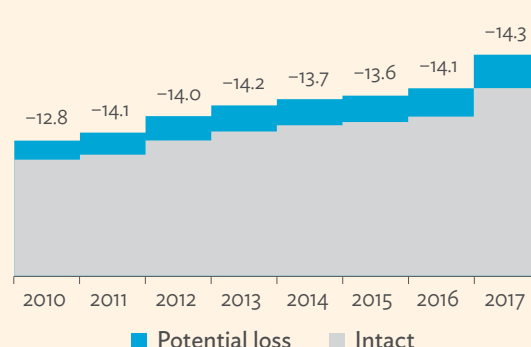
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 9.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 9.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 9.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 9.2.1: Input-Output Backward Linkage**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.795	0.844	0.835	0.826	0.818	0.811	0.805	0.816
Mining and quarrying	1.150	1.178	1.170	1.167	1.160	1.159	1.158	1.159
Food, beverages, and tobacco	1.164	1.266	1.268	1.263	1.254	1.253	1.244	1.256
Textiles and textile products	1.092	1.162	1.172	1.170	1.168	1.168	1.169	1.169
Leather, leather products, and footwear	0.986	1.048	1.058	1.056	1.053	1.050	1.048	1.051
Wood and products of wood and cork	1.085	1.063	1.061	1.057	1.054	1.046	1.042	1.053
Pulp, paper, paper products, printing, and publishing	0.870	0.880	0.877	0.870	0.867	0.857	0.851	0.864
Coke, refined petroleum, and nuclear fuel	1.285	0.972	1.001	1.028	1.048	1.091	1.123	1.063
Chemicals and chemical products	1.252	1.145	1.171	1.175	1.176	1.192	1.202	1.181
Rubber and plastics	1.101	1.085	1.094	1.089	1.083	1.081	1.081	1.084
Other nonmetallic minerals	1.205	1.015	1.041	1.058	1.076	1.105	1.122	1.079
Basic metals and fabricated metal	1.087	1.079	1.101	1.112	1.129	1.148	1.161	1.136
Machinery, nec	1.038	1.025	1.040	1.044	1.051	1.057	1.061	1.051
Electrical and optical equipment	1.024	1.071	1.086	1.089	1.095	1.100	1.104	1.095
Transport equipment	1.085	1.016	1.026	1.031	1.038	1.043	1.048	1.040
Manufacturing, nec; recycling	1.106	1.093	1.106	1.107	1.106	1.109	1.111	1.106
Electricity, gas, and water supply	0.959	0.918	0.892	0.905	0.918	0.921	0.923	0.914
Construction	1.155	1.106	1.104	1.104	1.103	1.114	1.122	1.105
Sale, maintenance, and repair	1.103	1.138	1.130	1.126	1.125	1.122	1.122	1.127
Wholesale trade and commission trade	0.865	0.887	0.876	0.871	0.867	0.858	0.853	0.865
Retail trade	0.855	0.884	0.875	0.868	0.864	0.854	0.850	0.862
Hotels and restaurants	1.067	1.118	1.107	1.106	1.097	1.088	1.076	1.093
Inland transport	1.041	1.017	1.009	1.009	1.007	1.010	1.010	1.006
Water transport	1.033	1.046	1.051	1.056	1.061	1.078	1.088	1.066
Air transport	1.120	1.168	1.169	1.169	1.167	1.174	1.175	1.167
Other supporting and auxiliary transport activities	1.026	1.002	0.995	0.991	0.987	0.980	0.976	0.987
Post and telecommunications	0.959	0.999	0.996	0.996	0.993	0.982	0.975	0.990
Financial intermediation	0.767	0.813	0.803	0.798	0.795	0.782	0.774	0.791
Real estate activities	0.803	0.861	0.847	0.839	0.833	0.818	0.809	0.827
Renting of M&Eq and other business activities	0.998	0.986	0.985	0.979	0.974	0.965	0.960	0.972
Public administration and defense; compulsory social security	0.796	0.830	0.817	0.813	0.811	0.801	0.797	0.811
Education	0.897	0.914	0.901	0.898	0.897	0.887	0.883	0.896
Health and social work	0.885	0.933	0.920	0.923	0.926	0.923	0.922	0.926
Other community, social, and personal services	0.843	0.857	0.849	0.844	0.842	0.831	0.824	0.839
Private households with employed persons	0.504	0.581	0.568	0.563	0.556	0.542	0.533	0.552
	lowest linkage							highest linkage



M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 9.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.993	1.012	1.017	1.048	1.075	1.062	1.092	1.137
Mining and quarrying	1.581	1.548	1.550	1.588	1.721	1.951	1.888	1.533
Food, beverages, and tobacco	0.764	0.837	0.826	0.831	0.831	0.823	0.870	0.913
Textiles and textile products	0.824	0.858	0.860	0.870	0.875	0.867	0.888	0.916
Leather, leather products, and footwear	0.741	0.788	0.770	0.770	0.766	0.771	0.794	0.834
Wood and products of wood and cork	1.235	1.157	1.195	1.205	1.212	1.179	1.174	1.167
Pulp, paper, paper products, printing, and publishing	1.228	1.247	1.269	1.251	1.233	1.192	1.197	1.245
Coke, refined petroleum, and nuclear fuel	1.073	0.911	0.849	0.957	1.007	1.307	1.234	0.954
Chemicals and chemical products	1.559	1.417	1.679	1.476	1.348	1.326	1.345	1.371
Rubber and plastics	1.257	1.208	1.213	1.229	1.243	1.218	1.208	1.190
Other nonmetallic minerals	1.017	0.980	1.004	1.016	1.014	0.979	0.977	0.973
Basic metals and fabricated metal	1.058	1.016	1.026	1.043	1.059	1.035	1.032	0.997
Machinery, nec	1.225	1.153	1.172	1.180	1.189	1.171	1.164	1.141
Electrical and optical equipment	1.128	1.133	1.138	1.148	1.155	1.136	1.142	1.177
Transport equipment	0.644	0.686	0.680	0.682	0.681	0.664	0.656	0.668
Manufacturing, nec; recycling	1.036	1.021	1.020	1.037	1.050	1.051	1.060	1.083
Electricity, gas, and water supply	1.335	1.334	1.298	1.314	1.326	1.315	1.311	1.359
Construction	0.508	0.591	0.576	0.575	0.571	0.551	0.535	0.550
Sale, maintenance, and repair	0.880	0.891	0.878	0.867	0.854	0.839	0.850	0.843
Wholesale trade and commission trade	1.034	0.999	0.985	0.979	0.963	0.949	0.955	0.951
Retail trade	1.149	1.135	1.126	1.143	1.141	1.135	1.148	1.177
Hotels and restaurants	0.589	0.647	0.633	0.630	0.624	0.611	0.611	0.644
Inland transport	0.752	0.785	0.775	0.771	0.764	0.758	0.781	0.807
Water transport	1.378	1.359	1.358	1.350	1.343	1.321	1.327	1.348
Air transport	1.235	1.209	1.179	1.158	1.134	1.116	1.118	1.132
Other supporting and auxiliary transport activities	1.347	1.328	1.306	1.288	1.269	1.250	1.243	1.274
Post and telecommunications	1.148	1.110	1.098	1.091	1.084	1.077	1.083	1.119
Financial intermediation	1.304	1.258	1.243	1.235	1.227	1.222	1.247	1.313
Real estate activities	0.676	0.720	0.709	0.721	0.730	0.723	0.741	0.796
Renting of M&Eq and other business activities	1.455	1.483	1.465	1.461	1.463	1.440	1.410	1.406
Public administration and defense; compulsory social security	0.520	0.600	0.582	0.581	0.576	0.557	0.544	0.547
Education	0.489	0.572	0.557	0.555	0.548	0.529	0.514	0.530
Health and social work	0.490	0.573	0.558	0.556	0.550	0.532	0.516	0.533
Other community, social, and personal services	0.867	0.870	0.855	0.845	0.834	0.820	0.837	0.847
Private households with employed persons	0.482	0.566	0.551	0.548	0.542	0.523	0.506	0.525
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.

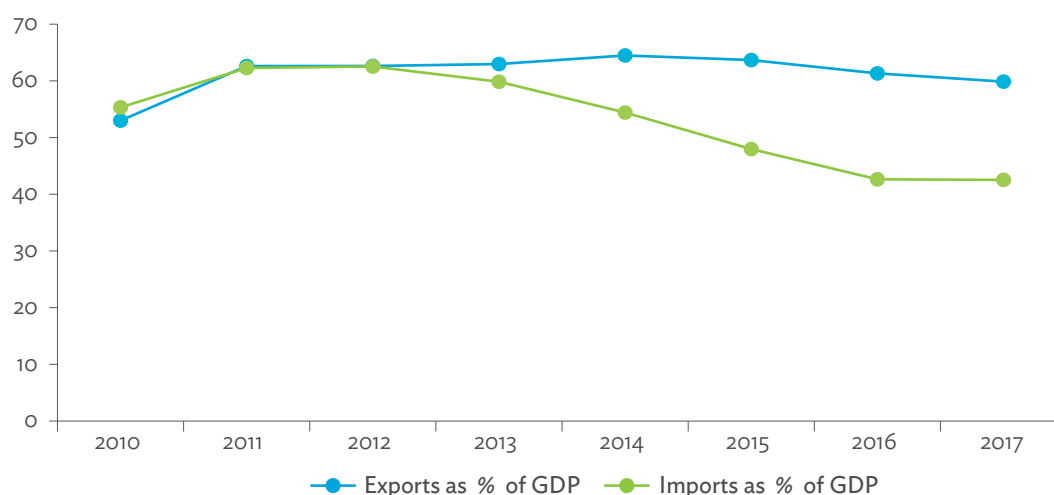


# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 9.3

### Thailand

**Figure 9.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

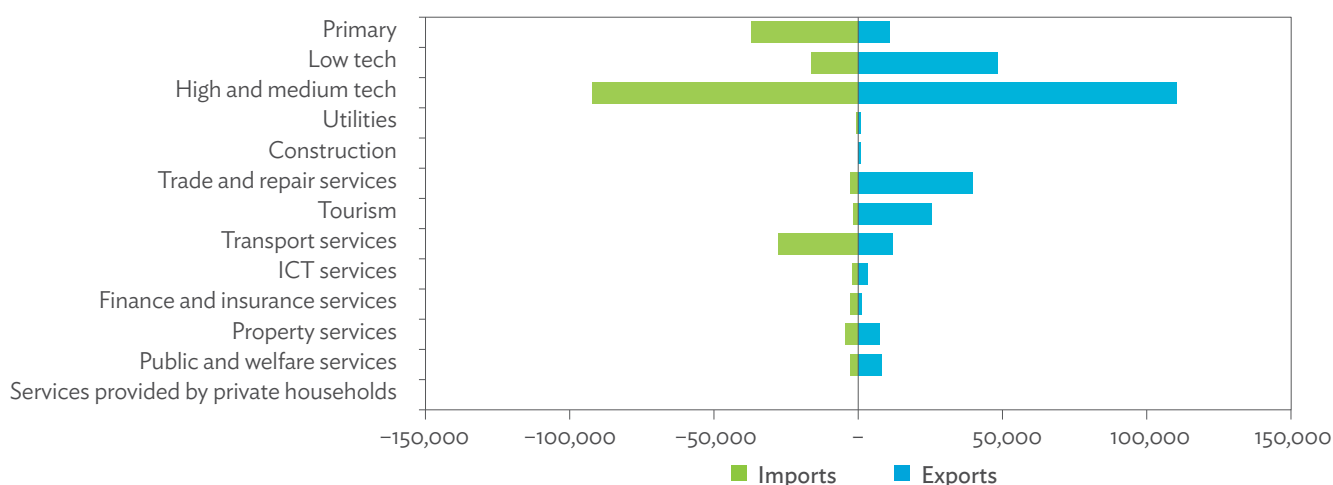


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

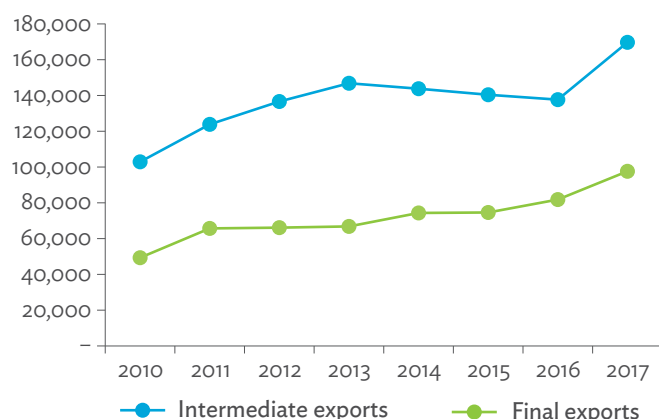
**Figure 9.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

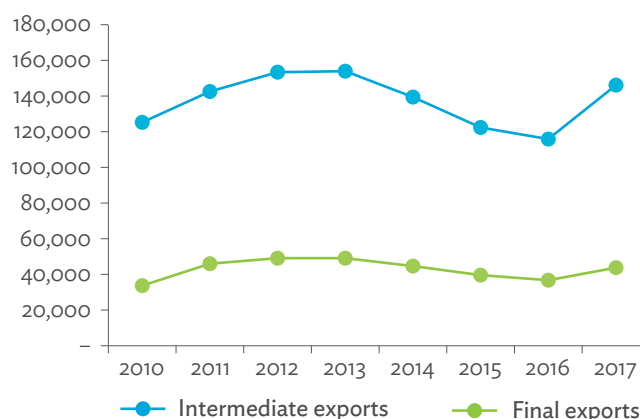
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 9.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

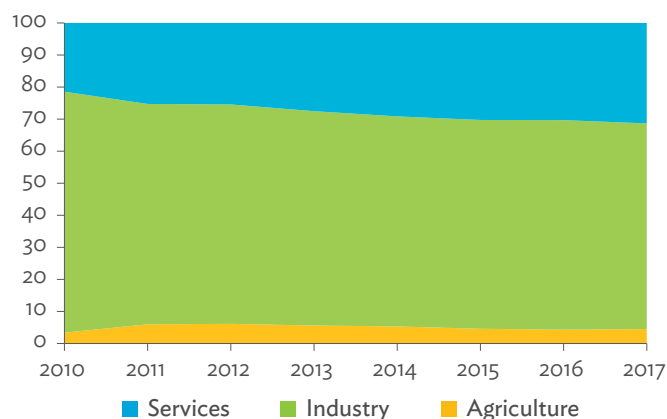
\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

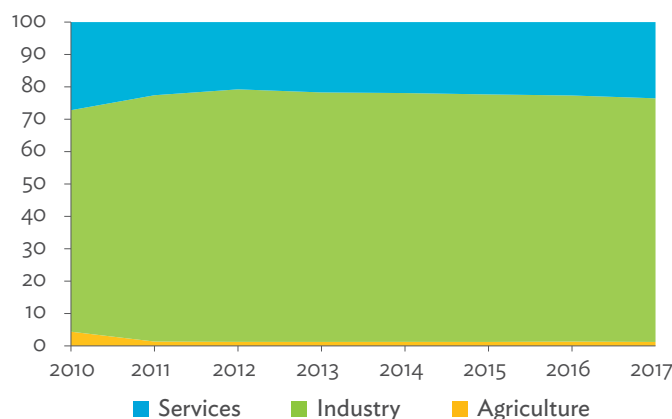
[Click here for figure data](#)**Figure 9.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

\$ = United States dollar.

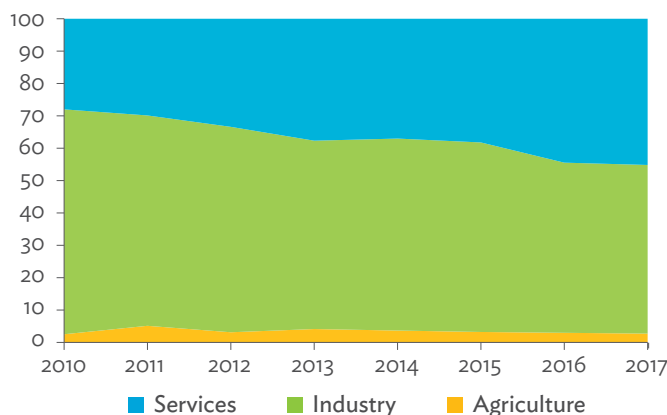
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 9.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**

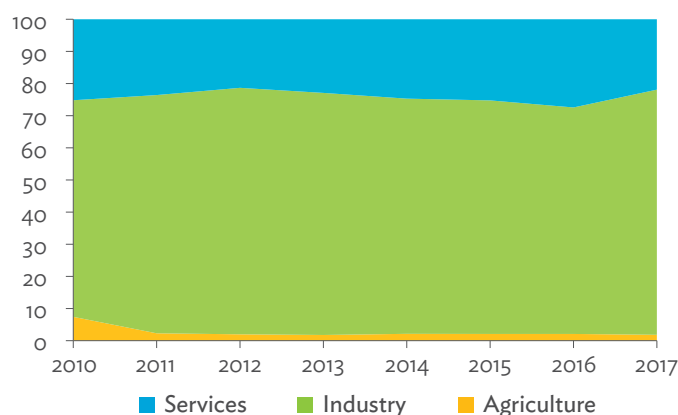
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 9.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 9.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**

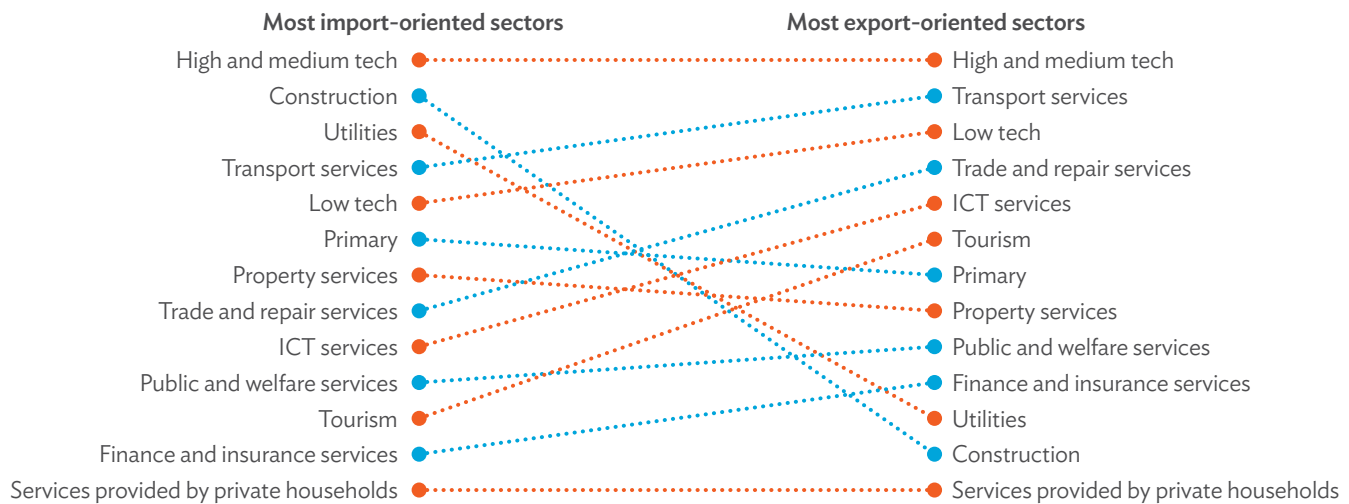
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 9.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 9.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

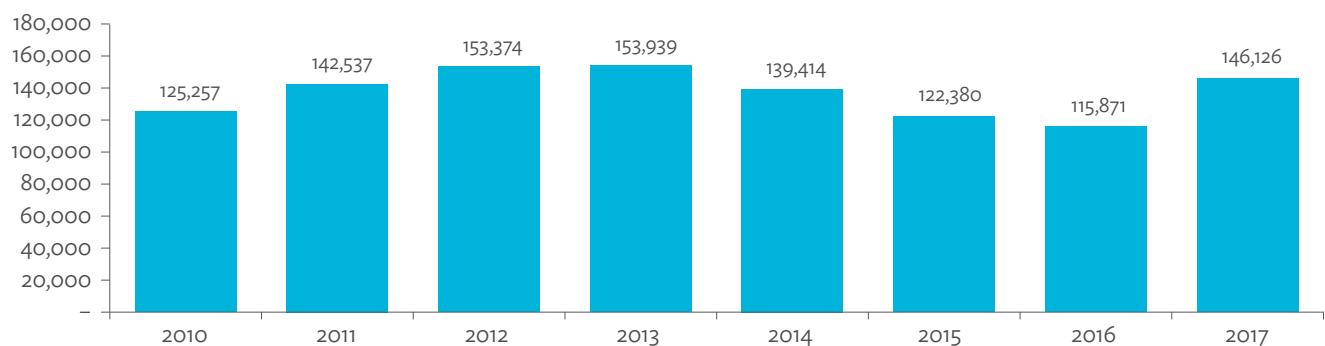


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 9.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

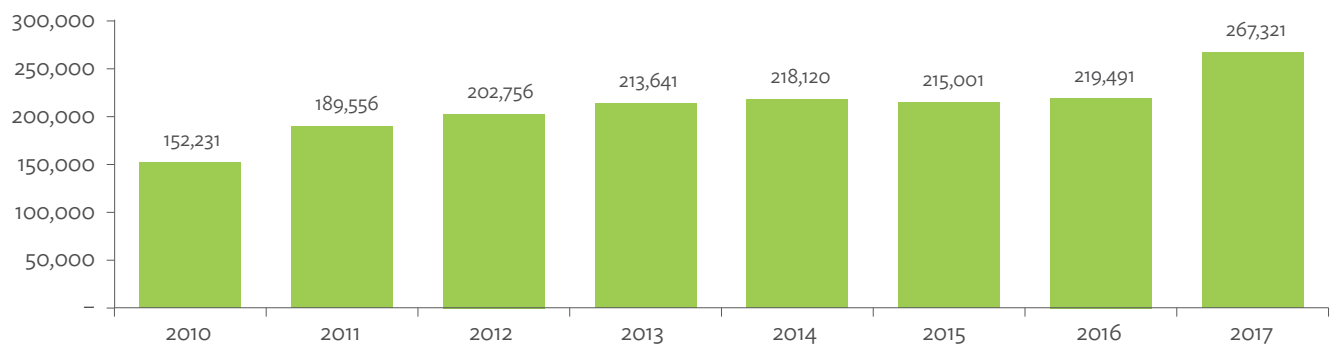


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

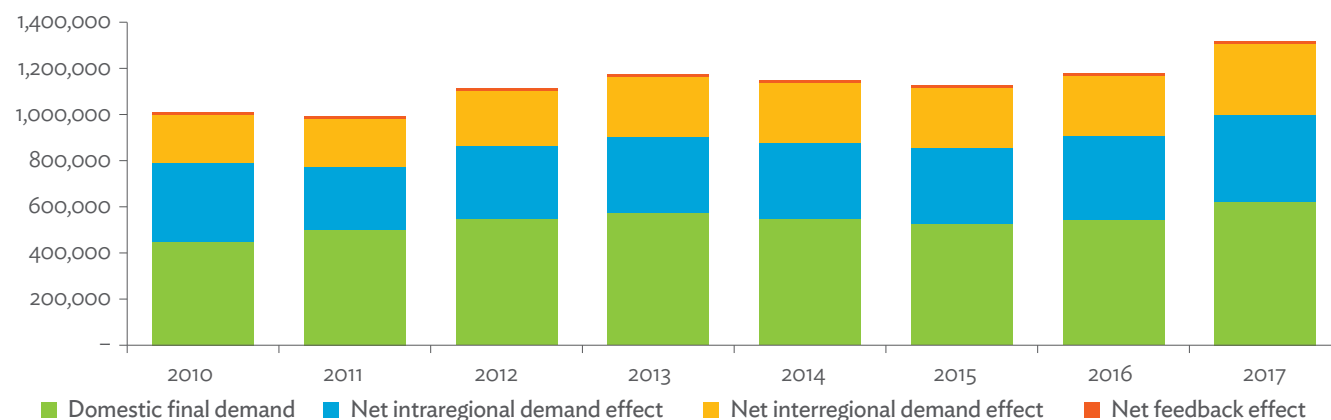
**Figure 9.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**



\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

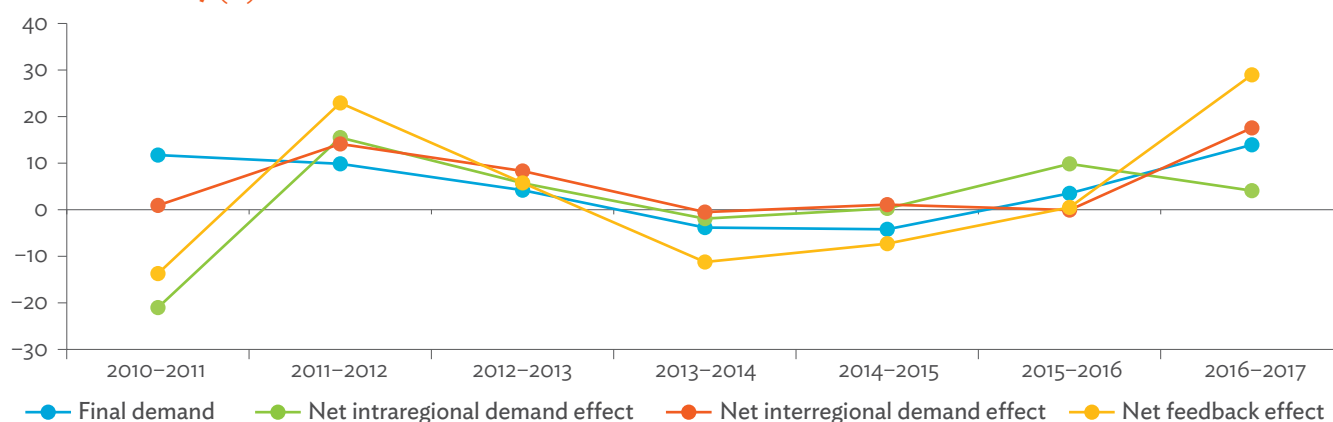
[Click here for figure data](#)

**Figure 9.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

\$ = United States dollar.

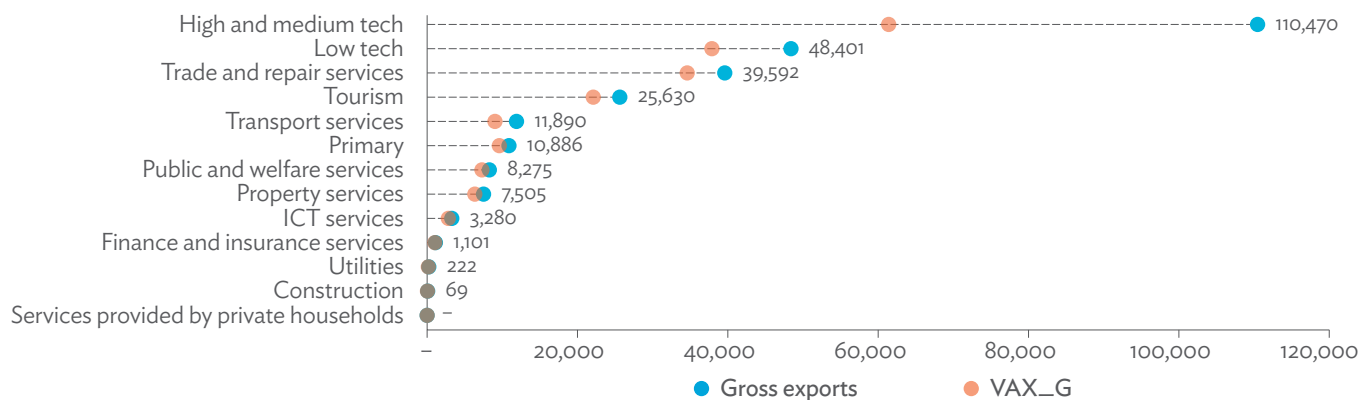
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 9.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

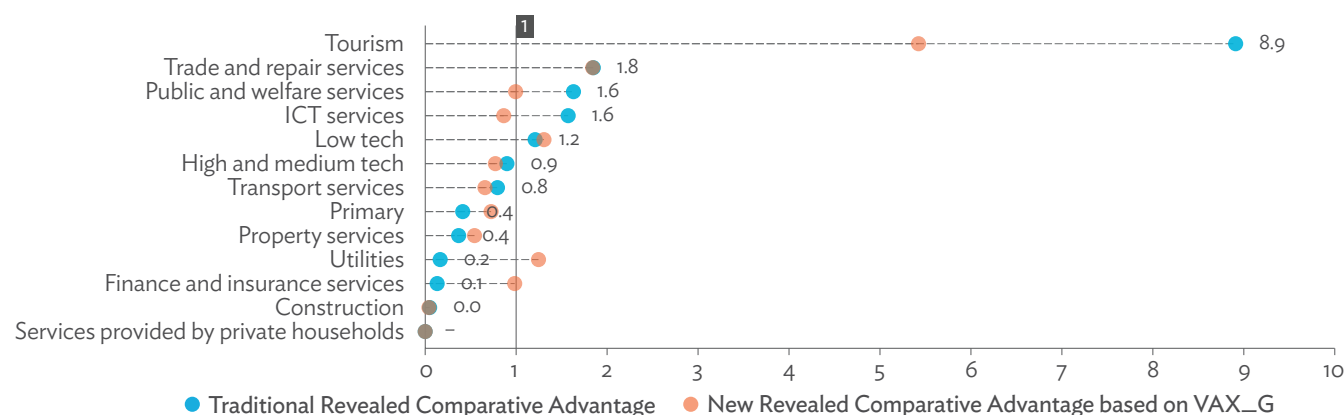
**Figure 9.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 9.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Table 9.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	17,424	28,310	28,118	25,657	19,635	14,562	12,463	16,480
Low tech	115,333	107,431	122,421	125,520	118,817	115,317	106,832	112,907
High and medium tech	131,651	142,266	160,112	165,458	158,049	144,433	144,041	175,616
Business service	109,820	139,922	150,485	160,946	159,821	159,366	188,988	214,062
Personal service	72,796	81,569	87,610	94,191	93,564	93,097	92,984	102,273
Intraregional effects (M1)								
Primary	32,809	31,835	36,731	37,892	36,822	31,835	32,484	33,865
Low tech	78,215	61,298	70,226	75,693	75,721	76,479	87,804	92,522
High and medium tech	114,880	74,803	92,772	98,339	96,976	99,461	103,541	99,689
Business service	115,500	101,215	111,412	117,030	113,130	115,718	130,822	143,566
Personal service	4,332	3,935	4,254	4,477	4,409	4,508	5,666	5,426

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 9.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	11,742	18,526	19,539	20,393	21,105	19,088	17,474	20,131
Low tech	37,096	38,925	42,871	46,926	46,501	46,435	45,987	55,397
High and medium tech	109,114	95,572	113,215	119,585	115,933	117,614	118,456	133,273
Business service	56,096	63,269	71,256	79,284	81,575	84,917	85,494	105,674
Personal service	3,331	3,100	3,509	5,032	4,732	4,746	5,191	6,022
Feedback effects (M3)								
Primary	30.03	40.71	45.59	47.05	45.01	38.08	35.27	44.72
Low tech	102.44	90.54	112.47	119.35	104.21	95.82	96.08	127.12
High and medium tech	471.29	371.58	469.93	485.18	421.89	389.06	395.28	489.72
Business service	187.38	179.82	211.45	233.25	215.37	206.21	205.27	282.51
Personal service	8.02	6.93	8.28	11.87	9.55	8.85	9.80	12.48

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 9.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.5790	0.4531	0.4705	0.4672	0.4712	0.4982	0.5100	0.4776
Mining and quarrying	1.2822	1.0289	1.0599	1.0726	1.0847	1.1399	1.1715	1.0974
Food, beverages, and tobacco	1.3106	1.1808	1.2328	1.2442	1.2545	1.3132	1.3325	1.2741
Textiles and textile products	1.1675	1.0012	1.0639	1.0786	1.1006	1.1567	1.1918	1.1167
Leather, leather products, and footwear	0.9572	0.8046	0.8636	0.8765	0.8929	0.9386	0.9653	0.9032
Wood and products of wood and cork	1.1530	0.8306	0.8687	0.8769	0.8953	0.9314	0.9539	0.9055
Pulp, paper, paper products, printing, and publishing	0.7270	0.5150	0.5448	0.5462	0.5592	0.5831	0.5960	0.5639
Coke, refined petroleum, and nuclear fuel	1.5504	0.6747	0.7634	0.8253	0.8832	1.0143	1.1052	0.9239
Chemicals and chemical products	1.4849	0.9713	1.0619	1.0870	1.1147	1.2010	1.2547	1.1385
Rubber and plastics	1.1855	0.8679	0.9270	0.9349	0.9462	0.9960	1.0271	0.9624
Other nonmetallic minerals	1.3927	0.7487	0.8328	0.8792	0.9344	1.0414	1.1035	0.9538
Basic metals and fabricated metal	1.1583	0.8591	0.9383	0.9750	1.0303	1.1195	1.1776	1.0557
Machinery, nec	1.0614	0.7657	0.8320	0.8550	0.8894	0.9519	0.9902	0.9031
Electrical and optical equipment	1.0332	0.8439	0.9130	0.9346	0.9682	1.0321	1.0713	0.9813
Transport equipment	1.1531	0.7507	0.8073	0.8317	0.8655	0.9260	0.9657	0.8833
Manufacturing, nec; recycling	1.1953	0.8820	0.9472	0.9665	0.9886	1.0475	1.0827	1.0016
Electricity, gas, and water supply	0.9027	0.5819	0.5707	0.6068	0.6500	0.7013	0.7301	0.6538
Construction	1.2929	0.9053	0.9438	0.9605	0.9830	1.0575	1.1035	0.9997
Sale, maintenance, and repair	1.1892	0.9606	0.9896	1.0003	1.0228	1.0725	1.1046	1.0396
Wholesale trade and commission trade	0.7170	0.5283	0.5428	0.5466	0.5594	0.5839	0.5994	0.5659
Retail trade	0.6978	0.5224	0.5402	0.5423	0.5533	0.5778	0.5944	0.5607
Hotels and restaurants	1.1185	0.9252	0.9497	0.9644	0.9723	1.0095	1.0186	0.9783
Inland transport	1.0656	0.7515	0.7772	0.7920	0.8112	0.8655	0.8936	0.8214
Water transport	1.0505	0.8020	0.8503	0.8762	0.9067	0.9912	1.0407	0.9299
Air transport	1.2223	1.0119	1.0577	1.0766	1.0972	1.1683	1.2033	1.1116
Other supporting and auxiliary transport activities	1.0370	0.7258	0.7515	0.7599	0.7743	0.8100	0.8296	0.7862
Post and telecommunications	0.9027	0.7200	0.7536	0.7683	0.7857	0.8133	0.8276	0.7914
Financial intermediation	0.5228	0.4004	0.4139	0.4178	0.4299	0.4436	0.4509	0.4325
Real estate activities	0.5944	0.4836	0.4909	0.4903	0.4969	0.5100	0.5179	0.4973
Renting of M&Eq and other business activities	0.9810	0.6990	0.7336	0.7392	0.7503	0.7812	0.8011	0.7603
Public administration and defense; compulsory social security	0.5797	0.4296	0.4389	0.4435	0.4586	0.4795	0.4943	0.4687
Education	0.7810	0.5734	0.5860	0.5951	0.6125	0.6388	0.6551	0.6215
Health and social work	0.7560	0.6064	0.6196	0.6388	0.6654	0.7041	0.7282	0.6769
Other community, social, and personal services	0.6738	0.4760	0.4950	0.5001	0.5134	0.5342	0.5456	0.5184
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 9.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.2990	0.2920	0.2932	0.2907	0.2808	0.2712	0.2548	0.2655
Mining and quarrying	0.7216	0.7577	0.7471	0.7382	0.7065	0.6658	0.6178	0.6605
Food, beverages, and tobacco	0.6292	0.5909	0.5664	0.5533	0.5248	0.4959	0.4614	0.4967
Textiles and textile products	0.6295	0.7944	0.7702	0.7467	0.7032	0.6666	0.6248	0.6626
Leather, leather products, and footwear	0.6013	0.7211	0.6900	0.6698	0.6315	0.5872	0.5474	0.5883
Wood and products of wood and cork	0.5762	0.5272	0.5047	0.4900	0.4642	0.4333	0.4049	0.4371
Pulp, paper, paper products, printing, and publishing	0.3799	0.3604	0.3440	0.3320	0.3144	0.2915	0.2696	0.2903
Coke, refined petroleum, and nuclear fuel	1.0301	1.4637	1.4298	1.4399	1.3689	1.3706	1.3545	1.3840
Chemicals and chemical products	0.8546	1.1091	1.0855	1.0611	0.9882	0.9491	0.9238	0.9499
Rubber and plastics	0.6275	0.6755	0.6660	0.6412	0.5958	0.5630	0.5335	0.5656
Other nonmetallic minerals	0.9605	1.2823	1.2466	1.2367	1.1761	1.1165	1.0804	1.1411
Basic metals and fabricated metal	1.2898	1.3982	1.3551	1.3334	1.2742	1.1849	1.1213	1.2024
Machinery, nec	0.9393	1.0036	0.9618	0.9407	0.8937	0.8268	0.7765	0.8354
Electrical and optical equipment	0.8785	1.0427	0.9995	0.9754	0.9269	0.8576	0.8037	0.8689
Transport equipment	1.0592	0.9808	0.9467	0.9282	0.8837	0.8198	0.7753	0.8334
Manufacturing, nec; recycling	0.7975	0.8827	0.8493	0.8275	0.7822	0.7296	0.6860	0.7347
Electricity, gas, and water supply	0.6102	0.6989	0.7180	0.6836	0.6375	0.6022	0.5680	0.6085
Construction	0.9600	1.0105	1.0068	1.0020	0.9640	0.9060	0.8608	0.9108
Sale, maintenance, and repair	0.7590	0.7456	0.7309	0.7136	0.6799	0.6308	0.5797	0.6177
Wholesale trade and commission trade	0.4069	0.3732	0.3682	0.3568	0.3380	0.3133	0.2891	0.3076
Retail trade	0.4182	0.3773	0.3679	0.3574	0.3394	0.3134	0.2880	0.3076
Hotels and restaurants	0.4432	0.4037	0.4005	0.3869	0.3613	0.3419	0.3158	0.3364
Inland transport	0.5255	0.5602	0.5497	0.5521	0.5340	0.5556	0.5213	0.5050
Water transport	0.9590	1.0475	1.0193	1.0072	0.9628	0.9492	0.8983	0.9173
Air transport	0.8314	0.8700	0.8384	0.8311	0.7976	0.7825	0.7383	0.7509
Other supporting and auxiliary transport activities	0.5675	0.4737	0.4573	0.4480	0.4276	0.4021	0.3699	0.3935
Post and telecommunications	0.4522	0.4384	0.4120	0.3910	0.3634	0.3336	0.3065	0.3324
Financial intermediation	0.2142	0.1960	0.1861	0.1756	0.1635	0.1561	0.1423	0.1469
Real estate activities	0.2125	0.2028	0.1991	0.1922	0.1821	0.1687	0.1544	0.1634
Renting of M&Eq and other business activities	0.5185	0.4689	0.4472	0.4378	0.4170	0.3853	0.3527	0.3798
Public administration and defense; compulsory social security	0.3193	0.2887	0.2888	0.2797	0.2656	0.2481	0.2259	0.2382
Education	0.4096	0.3689	0.3670	0.3531	0.3315	0.3082	0.2838	0.3048
Health and social work	0.5715	0.5684	0.5816	0.5546	0.5153	0.4813	0.4519	0.4856
Other community, social, and personal services	0.3473	0.3098	0.3026	0.2911	0.2744	0.2551	0.2341	0.2507
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 9.3.5: Net Feedback Multipliers (M3), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0010	0.0008	0.0009	0.0009	0.0009	0.0008	0.0008	0.0009
Mining and quarrying	0.0026	0.0023	0.0025	0.0025	0.0023	0.0022	0.0021	0.0025
Food, beverages, and tobacco	0.0019	0.0017	0.0018	0.0018	0.0017	0.0016	0.0015	0.0018
Textiles and textile products	0.0022	0.0024	0.0026	0.0025	0.0023	0.0022	0.0021	0.0024
Leather, leather products, and footwear	0.0022	0.0024	0.0025	0.0024	0.0022	0.0021	0.0020	0.0023
Wood and products of wood and cork	0.0020	0.0017	0.0018	0.0018	0.0016	0.0015	0.0014	0.0017
Pulp, paper, paper products, printing, and publishing	0.0012	0.0010	0.0011	0.0011	0.0010	0.0009	0.0009	0.0010
Coke, refined petroleum, and nuclear fuel	0.0027	0.0026	0.0029	0.0030	0.0028	0.0029	0.0031	0.0033
Chemicals and chemical products	0.0025	0.0025	0.0027	0.0027	0.0025	0.0024	0.0025	0.0027
Rubber and plastics	0.0020	0.0019	0.0020	0.0020	0.0018	0.0017	0.0017	0.0020
Other nonmetallic minerals	0.0028	0.0026	0.0028	0.0029	0.0027	0.0026	0.0028	0.0030
Basic metals and fabricated metal	0.0057	0.0052	0.0056	0.0057	0.0051	0.0048	0.0047	0.0054
Machinery, nec	0.0038	0.0034	0.0036	0.0036	0.0033	0.0031	0.0030	0.0034
Electrical and optical equipment	0.0035	0.0034	0.0037	0.0037	0.0033	0.0031	0.0030	0.0034
Transport equipment	0.0046	0.0036	0.0038	0.0038	0.0035	0.0032	0.0032	0.0036
Manufacturing, nec; recycling	0.0030	0.0028	0.0029	0.0029	0.0027	0.0025	0.0024	0.0028
Electricity, gas, and water supply	0.0020	0.0017	0.0019	0.0018	0.0017	0.0016	0.0016	0.0019
Construction	0.0037	0.0030	0.0033	0.0034	0.0031	0.0030	0.0030	0.0034
Sale, maintenance, and repair	0.0028	0.0024	0.0026	0.0026	0.0025	0.0023	0.0021	0.0025
Wholesale trade and commission trade	0.0015	0.0012	0.0013	0.0013	0.0012	0.0011	0.0010	0.0012
Retail trade	0.0015	0.0012	0.0013	0.0013	0.0012	0.0011	0.0010	0.0012
Hotels and restaurants	0.0014	0.0011	0.0012	0.0012	0.0011	0.0010	0.0010	0.0012
Inland transport	0.0017	0.0014	0.0016	0.0016	0.0015	0.0015	0.0014	0.0016
Water transport	0.0032	0.0032	0.0032	0.0033	0.0031	0.0030	0.0029	0.0034
Air transport	0.0029	0.0028	0.0028	0.0029	0.0028	0.0027	0.0025	0.0029
Other supporting and auxiliary transport activities	0.0019	0.0014	0.0015	0.0015	0.0015	0.0014	0.0013	0.0015
Post and telecommunications	0.0016	0.0013	0.0014	0.0013	0.0012	0.0011	0.0010	0.0012
Financial intermediation	0.0007	0.0006	0.0006	0.0006	0.0005	0.0005	0.0004	0.0005
Real estate activities	0.0007	0.0005	0.0006	0.0006	0.0005	0.0005	0.0005	0.0005
Renting of M&Eq and other business activities	0.0018	0.0014	0.0015	0.0015	0.0014	0.0013	0.0012	0.0014
Public administration and defense; compulsory social security	0.0012	0.0009	0.0010	0.0010	0.0009	0.0008	0.0008	0.0009
Education	0.0014	0.0011	0.0012	0.0012	0.0011	0.0010	0.0009	0.0011
Health and social work	0.0022	0.0018	0.0021	0.0020	0.0017	0.0016	0.0016	0.0018
Other community, social, and personal services	0.0012	0.0009	0.0010	0.0010	0.0009	0.0008	0.0008	0.0009
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 9.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	4,914	4,256	11,575	10,020	11,001	9,569	11,511	10,046	11,098	9,691	9,445	8,293	8,859	7,857	9,604	
Low tech	32,144	23,748	39,059	28,714	42,051	31,377	43,586	32,921	42,395	32,597	41,457	32,425	40,832	32,541	48,401	37,882
High and medium tech	79,186	43,923	87,858	42,193	92,731	47,706	91,952	47,386	94,943	50,984	92,840	52,520	91,441	53,859	110,470	61,398
Utilities	121	90	145	99	154	104	585	406	203	145	201	148	192	145	222	164
Construction	1	0	1	1	3	2	427	254	58	35	62	40	60	40	69	44
Trade and repair services	15,286	12,681	22,955	19,379	24,858	21,089	27,237	23,253	28,834	24,847	29,558	25,776	31,743	28,002	39,592	34,598
Tourism	4,532	3,686	6,418	5,337	7,276	6,075	8,961	7,541	9,919	8,452	10,242	8,811	19,975	17,397	25,630	22,100
Transport services	7,295	5,394	9,848	7,126	10,799	7,939	12,516	9,206	13,339	9,926	13,727	10,160	9,637	7,307	11,890	9,024
ICT services	1,368	1,104	2,032	1,651	2,444	2,018	3,029	2,531	3,350	2,841	3,829	3,295	2,688	2,341	3,280	2,823
Finance and insurance services	312	283	531	486	636	585	870	804	877	815	906	844	909	852	1,101	1,030
Property services	3,056	2,400	4,673	3,769	5,735	4,689	6,459	5,315	6,476	5,383	6,125	5,170	6,323	5,414	7,505	6,345
Public and welfare services	4,016	3,389	4,458	3,789	5,069	4,330	6,508	5,602	6,626	5,760	6,610	5,805	6,832	6,075	8,275	7,292
Services provided by private households	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

\$ = United States dollar, ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 9.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.297	0.631	0.502	0.789	0.446	0.739	0.467	0.767	0.469	0.790	0.454	0.755	0.427	0.728	0.413	0.725
Low tech	1.464	1.627	1.454	1.531	1.471	1.526	1.399	1.472	1.307	1.384	1.288	1.367	1.246	1.332	1.209	1.306
High and medium tech	1.111	1.017	0.991	0.853	0.986	0.899	0.935	0.825	0.945	0.835	0.931	0.840	0.909	0.808	0.899	0.772
Utilities	0.177	1.393	0.171	1.219	0.167	1.162	0.591	1.288	0.198	1.339	0.192	1.355	0.144	1.296	0.165	1.246
Construction	0.001	0.040	0.002	0.031	0.003	0.032	0.371	0.117	0.051	0.045	0.054	0.050	0.044	0.050	0.049	0.041
Trade and repair services	1.283	1.657	1.566	1.780	1.539	1.694	1.628	1.709	1.683	1.688	1.714	1.703	1.792	1.803	1.848	1.842
Tourism	2.822	1.777	3.206	2.185	3.466	2.214	3.958	2.494	4.193	2.612	4.417	2.638	7.392	4.693	8.910	5.424
Transport services	0.804	0.807	0.931	0.884	0.941	0.863	1.059	0.900	1.098	0.907	1.129	0.924	0.787	0.648	0.795	0.657
ICT services	1.339	0.972	1.704	1.039	1.742	1.114	2.066	1.249	2.213	1.331	2.534	1.514	1.662	0.978	1.572	0.864
Finance and insurance services	0.067	0.720	0.096	0.750	0.108	0.762	0.136	0.828	0.132	0.859	0.135	0.888	0.127	0.922	0.132	0.984
Property services	0.307	0.528	0.385	0.595	0.443	0.630	0.445	0.615	0.420	0.597	0.387	0.558	0.380	0.554	0.368	0.542
Public and welfare services	1.412	0.933	1.348	0.920	1.389	0.940	1.587	1.045	1.598	1.011	1.543	0.972	1.470	0.970	1.630	0.994
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

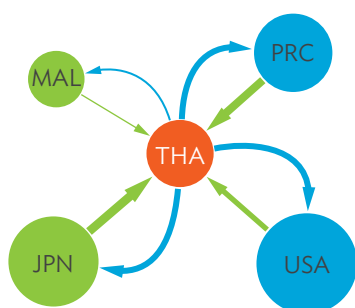
Source: Asian Development Bank Multi-Regional Input-Output Database.

# 9.4

## GLOBAL VALUE CHAIN INDICATORS

### Thailand

**Figure 9.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

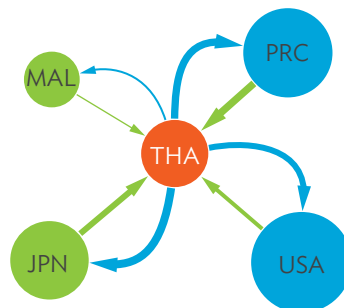
JPN = Japan, MAL = Malaysia, PRC = People's Republic of China, THA = Thailand, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

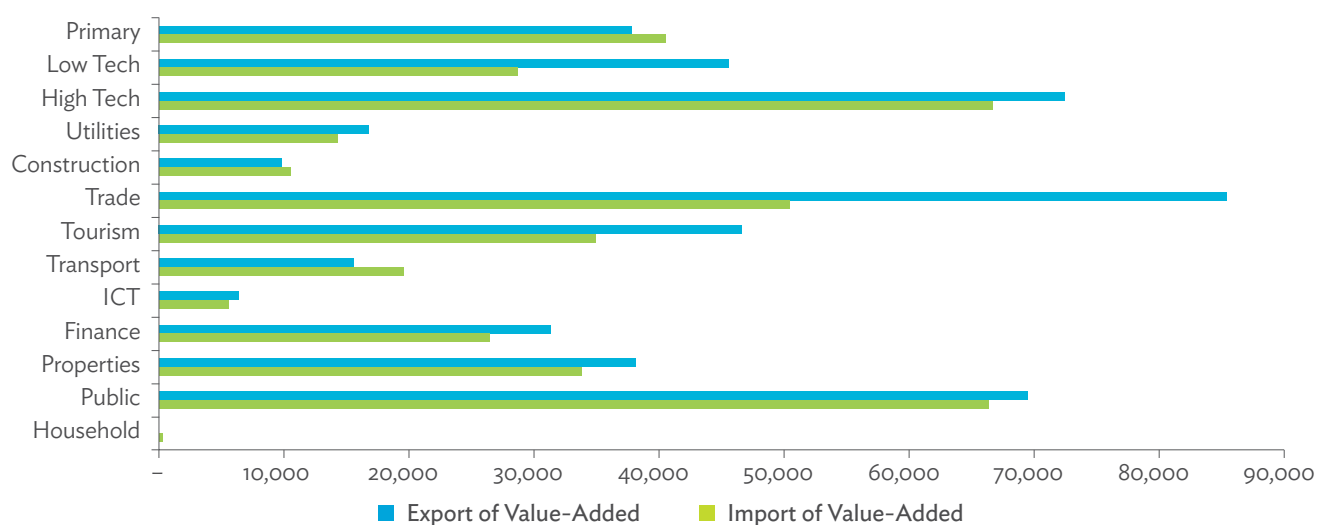
JPN = Japan, MAL = Malaysia, PRC = People's Republic of China, THA = Thailand, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

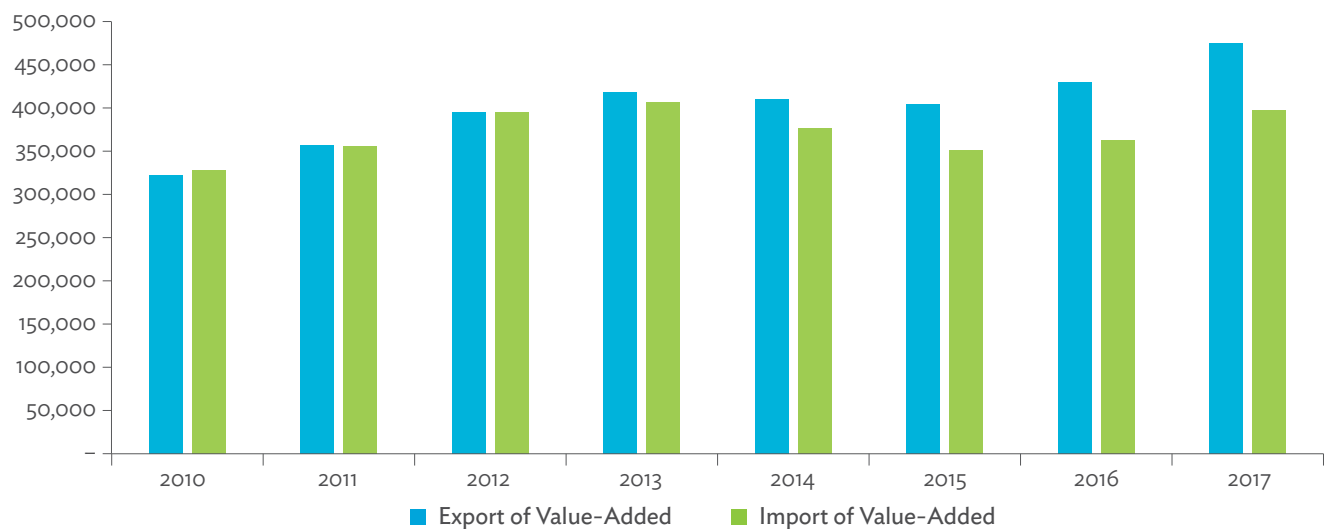
**Figure 9.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input–Output Database.

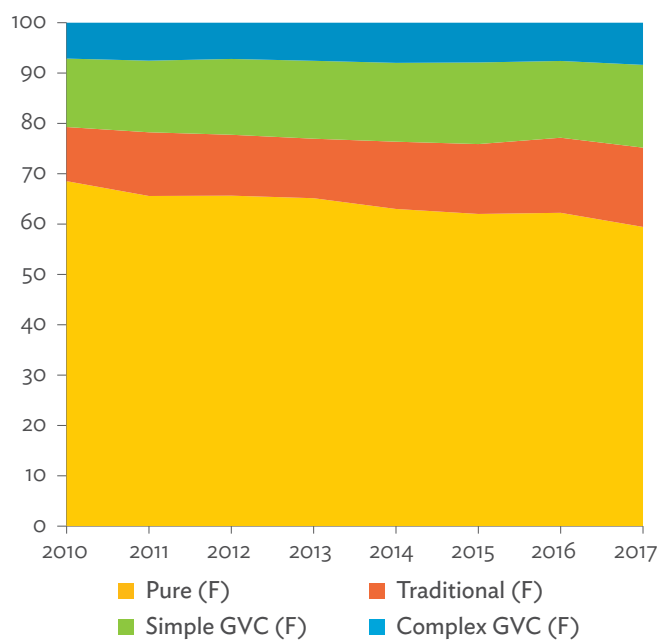
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**Figure 9.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

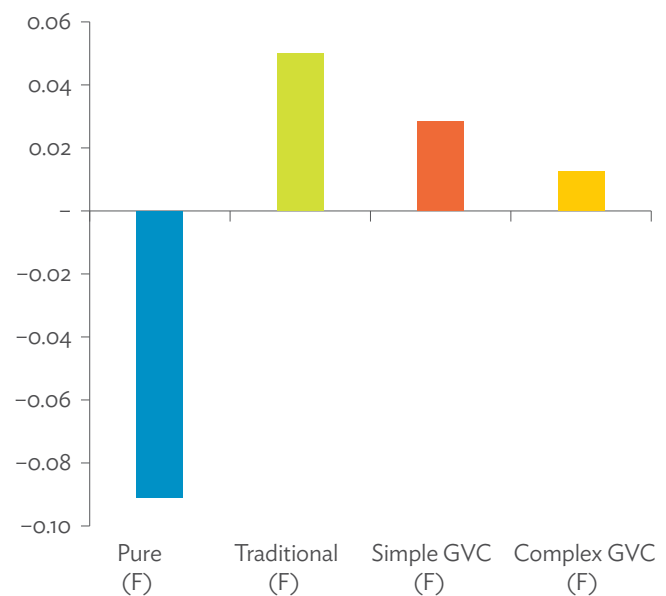
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**Figure 9.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

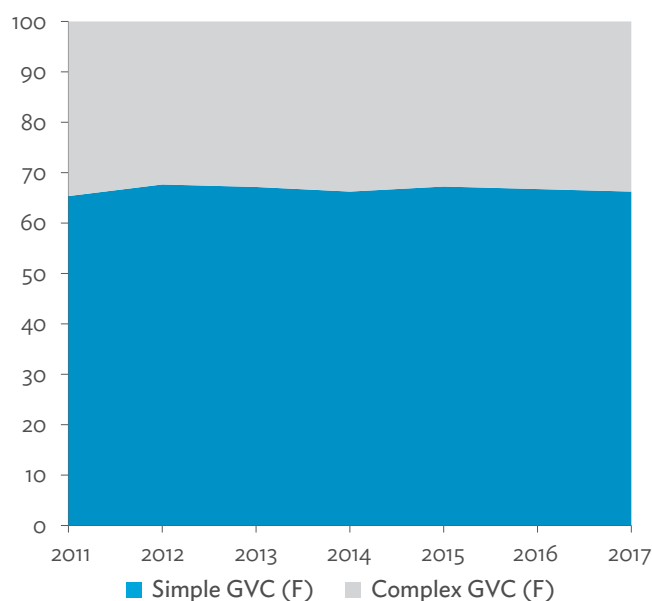
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

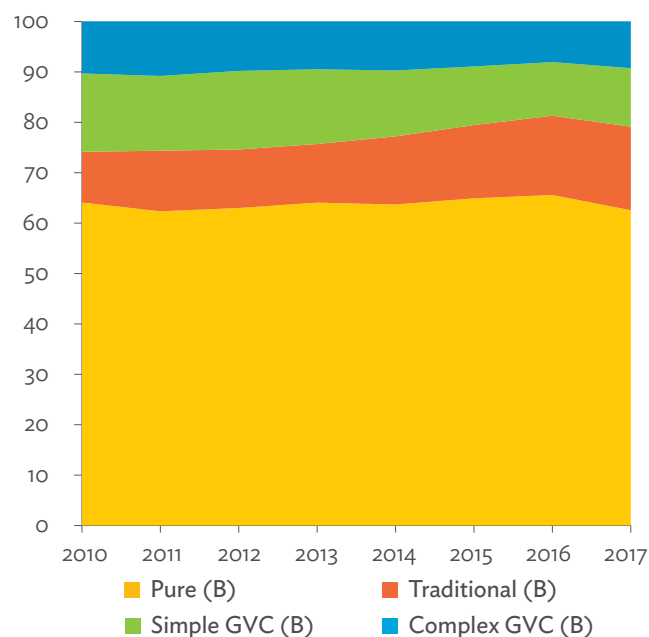


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

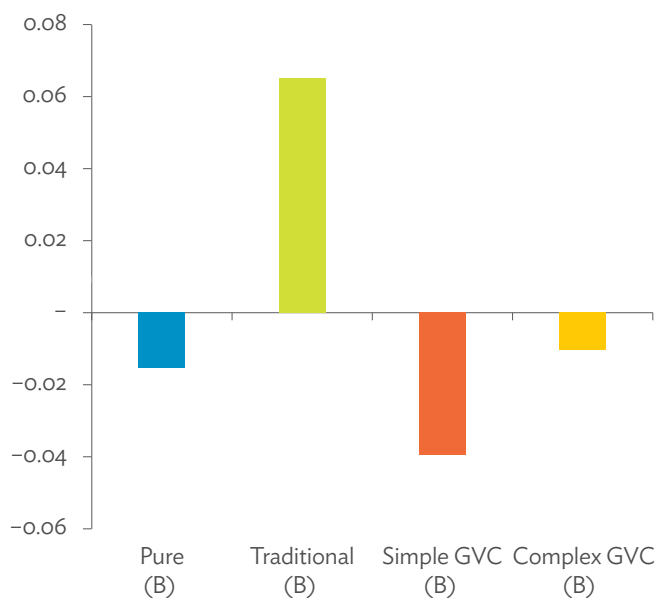


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



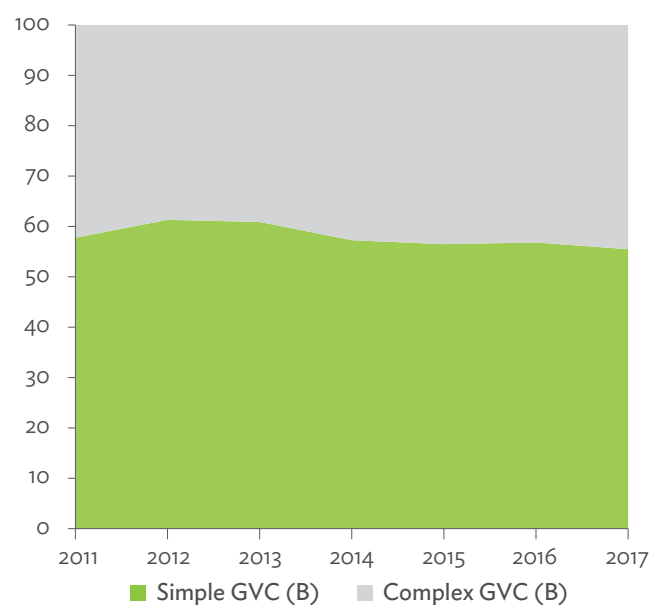
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

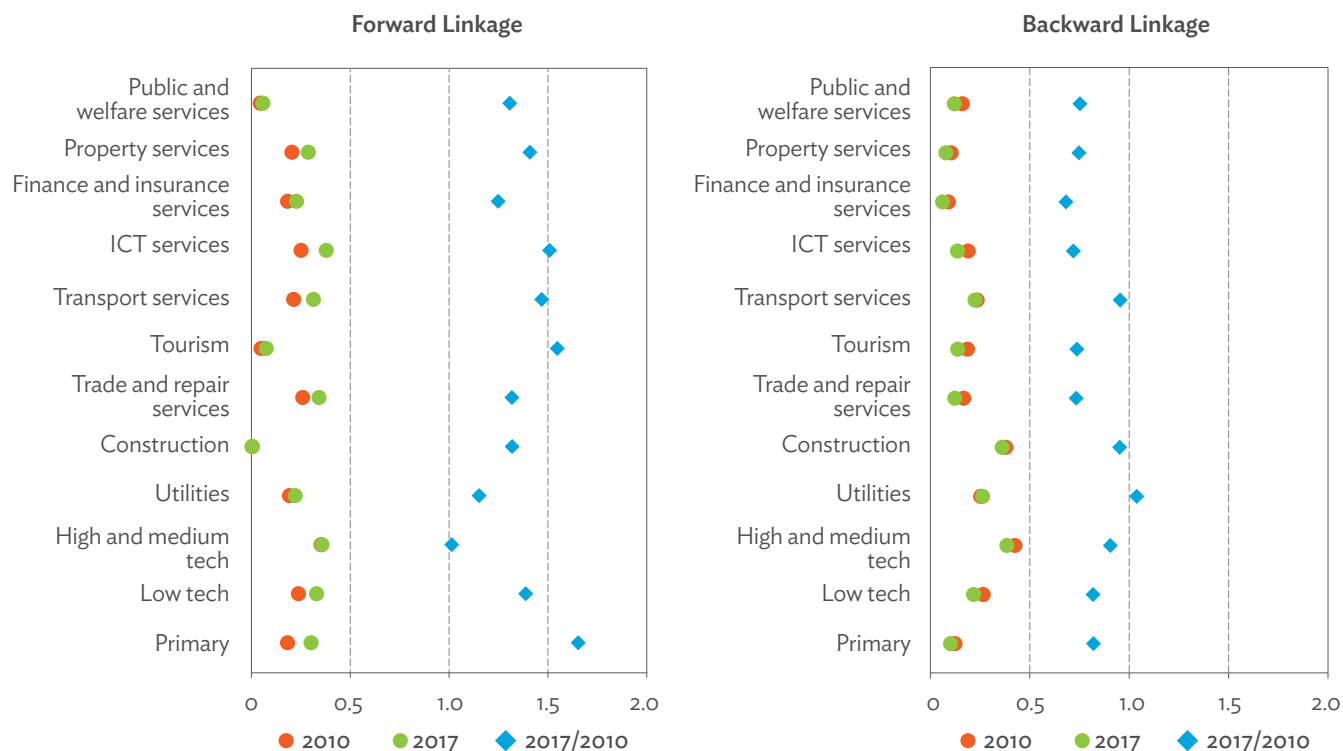


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

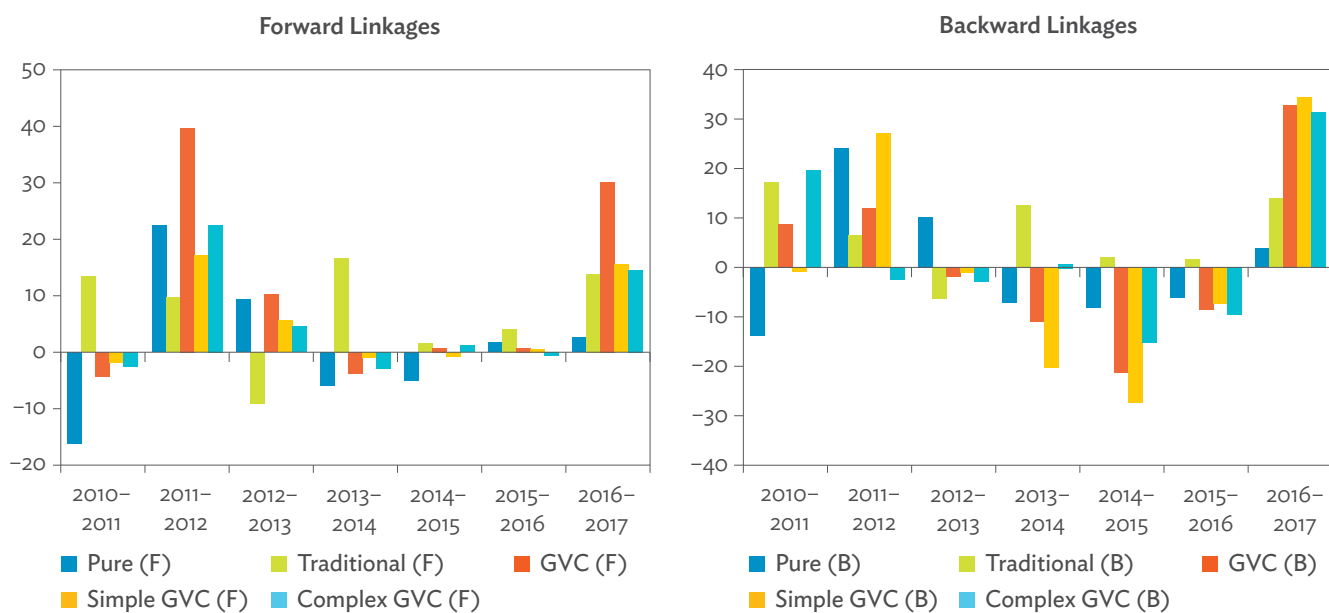


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 9.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

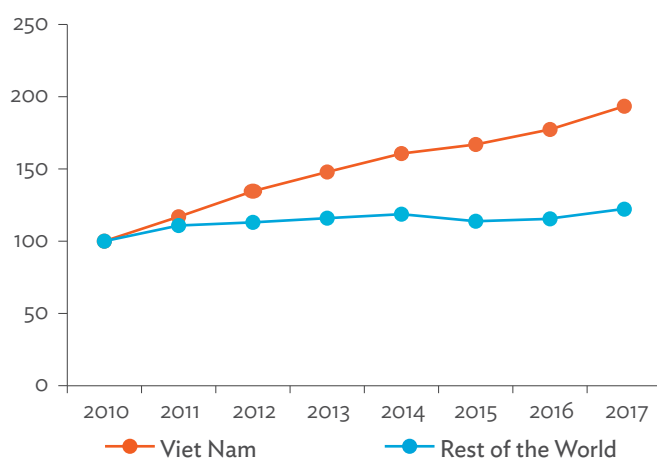
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# 10.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Viet Nam

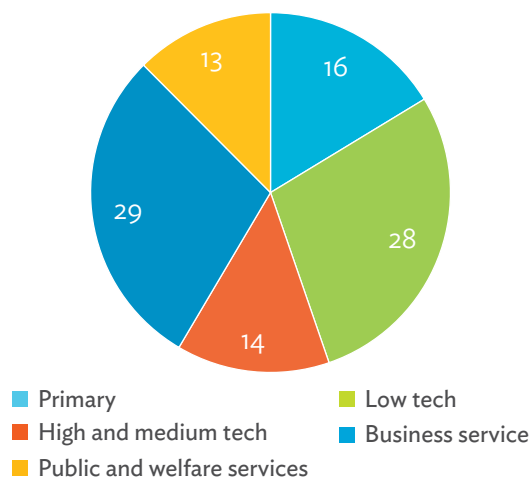
**Figure 10.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

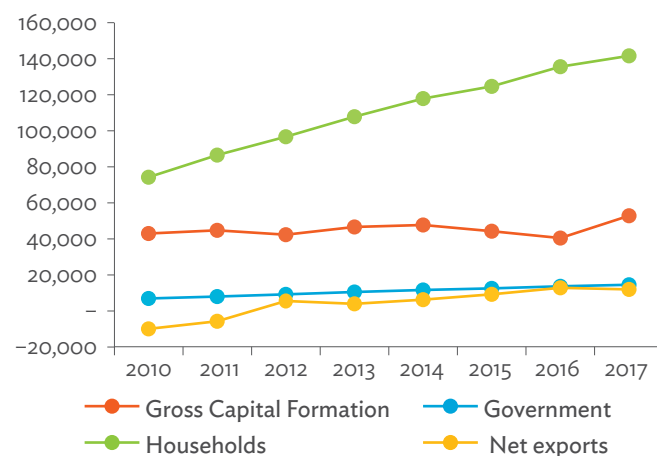
**Figure 10.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 10.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

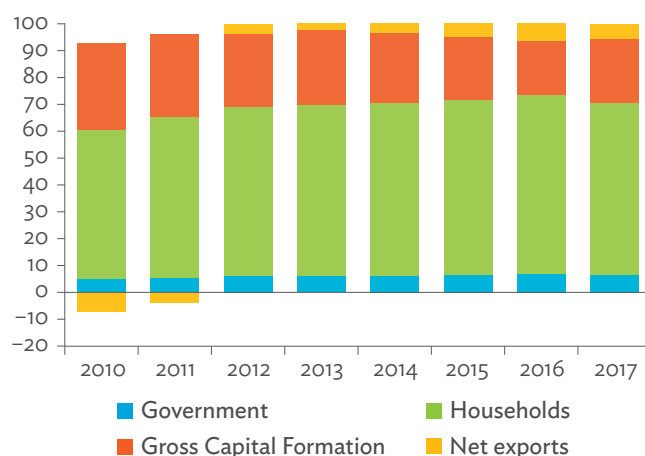


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

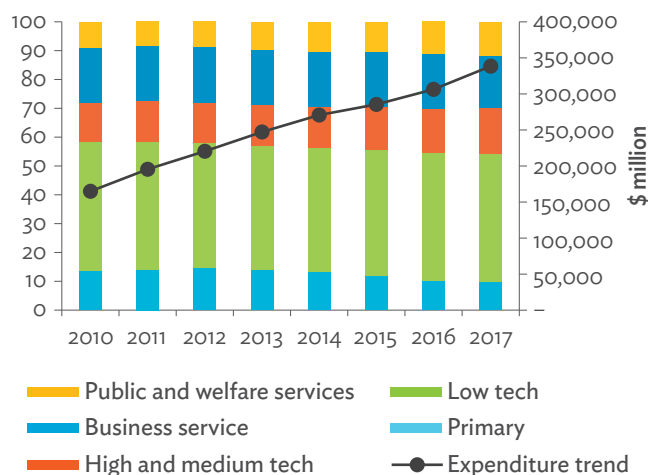
**Figure 10.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 10.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

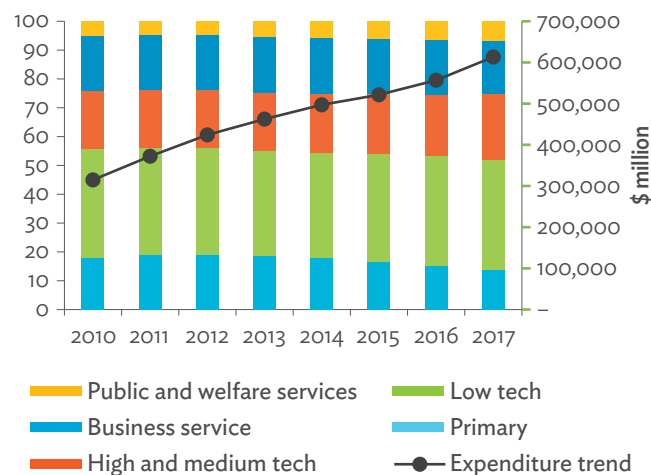


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 10.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

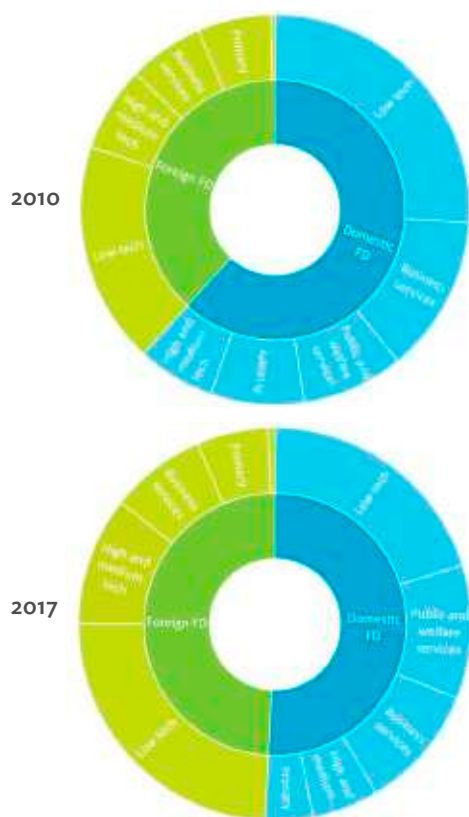


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 10.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

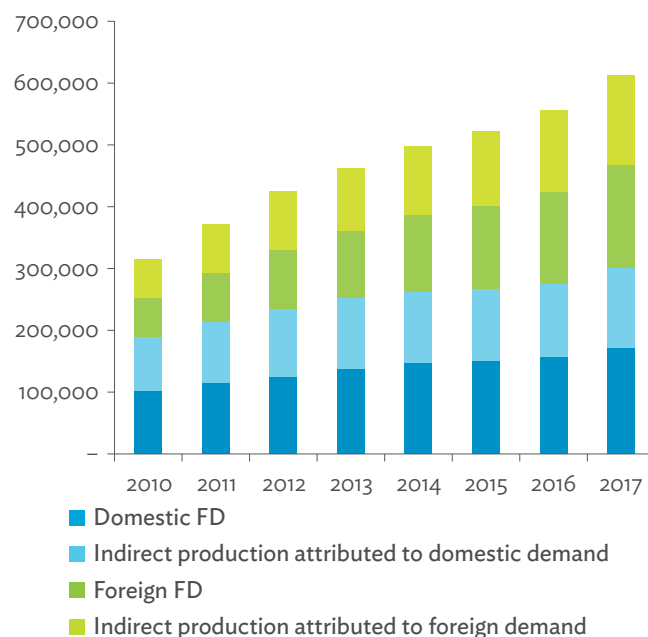


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

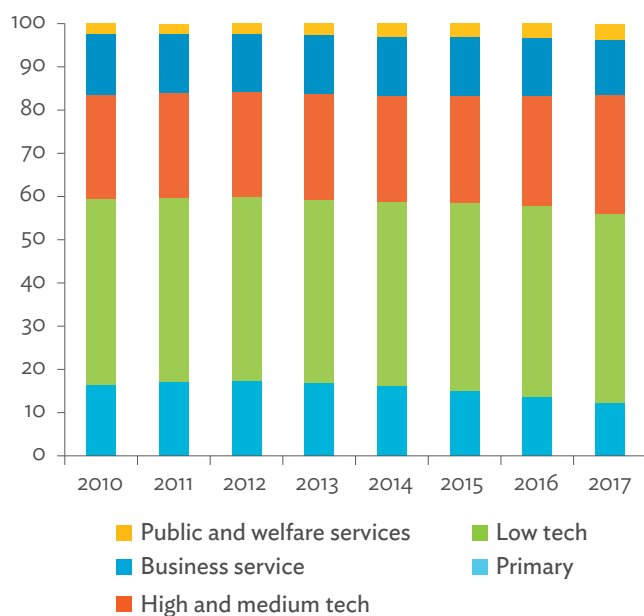
**Figure 10.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**



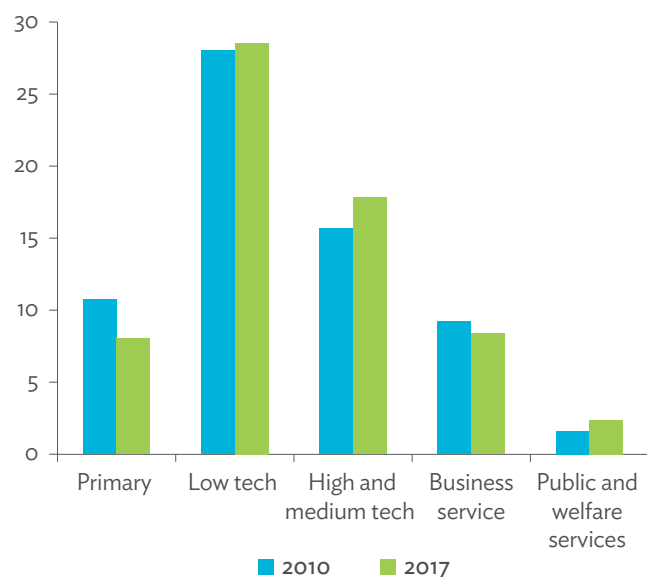
\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

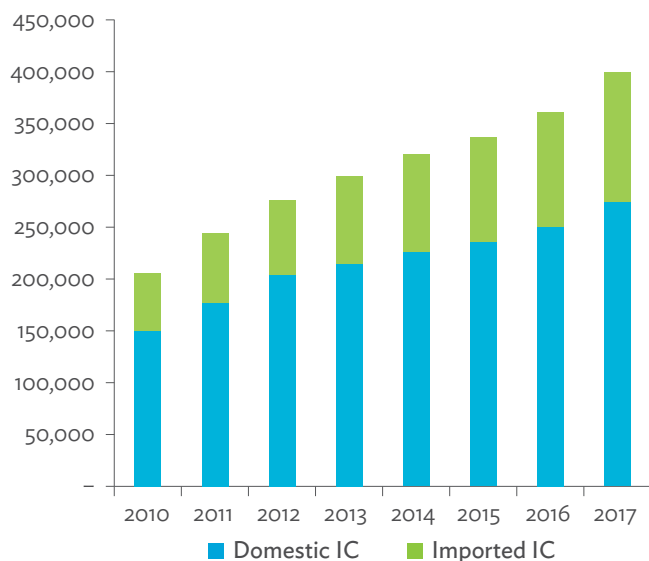
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**Figure 10.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

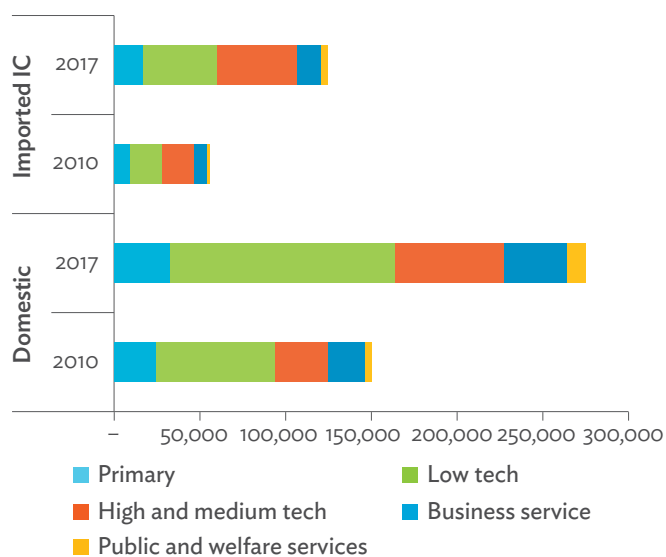
[Click here for figure data](#)**Figure 10.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 10.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 10.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

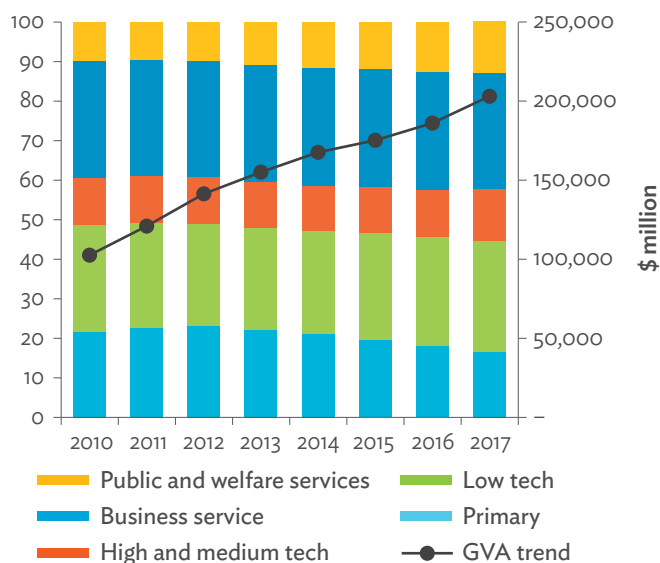
\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 10.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

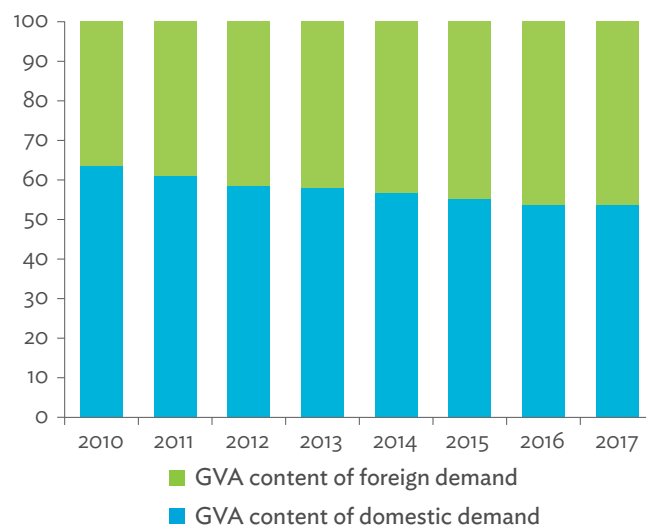


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 10.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

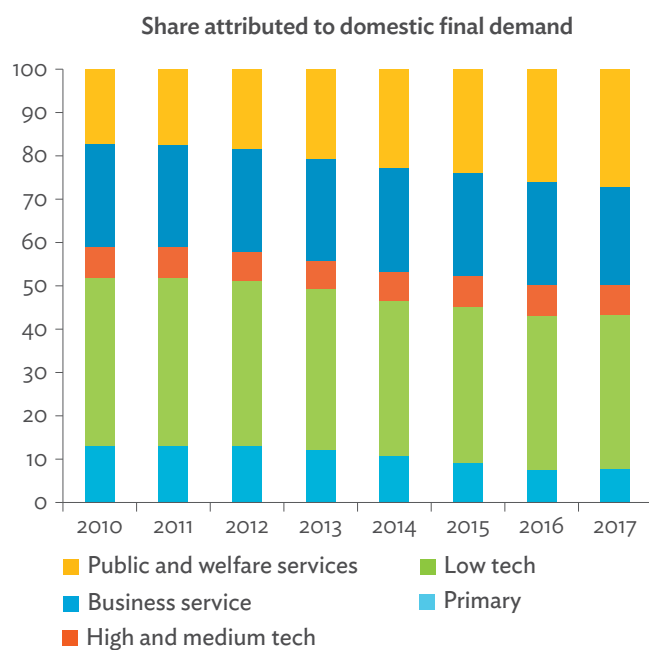


GVA = gross value added.

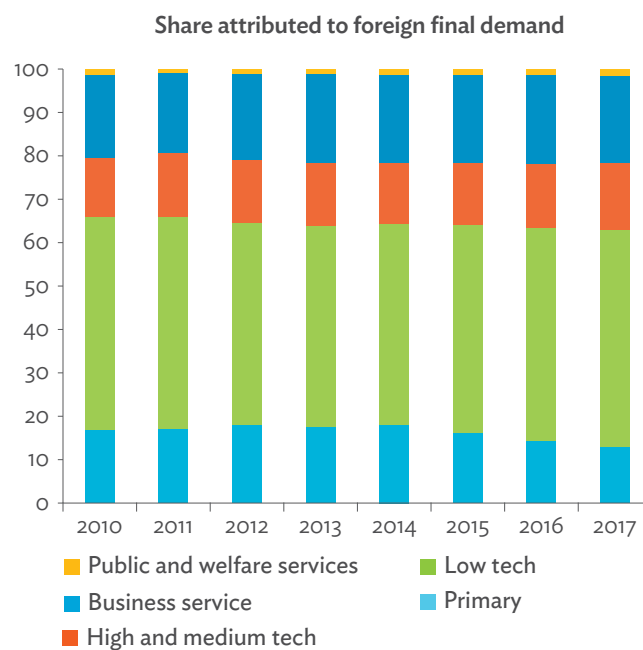
Source: Asian Development Bank Multi-Regional Input–Output Database.

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**Figure 10.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.



[Click here for figure data](#)

**Table 10.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.668	0.669	0.683	0.664	0.651	0.646	0.640	0.635
Mining and quarrying	0.608	0.601	0.644	0.626	0.613	0.606	0.598	0.592
Food, beverages, and tobacco	0.610	0.611	0.629	0.612	0.601	0.596	0.590	0.585
Textiles and textile products	0.600	0.573	0.591	0.576	0.568	0.563	0.559	0.557
Leather, leather products, and footwear	0.679	0.662	0.677	0.664	0.656	0.653	0.648	0.644
Wood and products of wood and cork	0.594	0.594	0.613	0.595	0.584	0.579	0.572	0.567
Pulp, paper, paper products, printing, and publishing	0.562	0.553	0.579	0.562	0.552	0.548	0.542	0.538
Coke, refined petroleum, and nuclear fuel	0.412	0.438	0.468	0.438	0.419	0.409	0.395	0.382
Chemicals and chemical products	0.497	0.489	0.512	0.492	0.481	0.473	0.466	0.461
Rubber and plastics	0.456	0.454	0.473	0.453	0.442	0.434	0.427	0.423
Other nonmetallic minerals	0.628	0.633	0.657	0.644	0.636	0.634	0.629	0.625
Basic metals and fabricated metal	0.428	0.427	0.444	0.423	0.412	0.405	0.397	0.391
Machinery, nec	0.449	0.443	0.460	0.440	0.429	0.422	0.414	0.410
Electrical and optical equipment	0.407	0.408	0.424	0.406	0.395	0.387	0.380	0.377
Transport equipment	0.441	0.445	0.463	0.443	0.431	0.421	0.410	0.408
Manufacturing, nec; recycling	0.579	0.576	0.594	0.577	0.566	0.560	0.553	0.547
Electricity, gas, and water supply	0.855	0.851	0.863	0.864	0.866	0.865	0.863	0.863
Construction	0.566	0.580	0.590	0.571	0.558	0.551	0.544	0.539
Sale, maintenance, and repair	0.701	0.686	0.723	0.716	0.712	0.708	0.704	0.699
Wholesale trade and commission trade	0.820	0.806	0.839	0.835	0.833	0.831	0.828	0.826
Retail trade	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hotels and restaurants	0.662	0.662	0.684	0.671	0.663	0.659	0.653	0.648
Inland transport	0.535	0.539	0.560	0.542	0.531	0.524	0.516	0.510
Water transport	0.486	0.487	0.512	0.486	0.470	0.462	0.451	0.443
Air transport	0.469	0.468	0.495	0.472	0.459	0.449	0.439	0.432
Other supporting and auxiliary transport activities	0.790	0.784	0.804	0.795	0.789	0.784	0.779	0.776
Post and telecommunications	0.620	0.607	0.629	0.615	0.605	0.600	0.594	0.590
Financial intermediation	0.827	0.782	0.839	0.832	0.827	0.826	0.823	0.821
Real estate activities	0.873	0.873	0.880	0.874	0.870	0.866	0.862	0.860
Renting of M&Eq and other business activities	0.773	0.761	0.789	0.782	0.777	0.775	0.771	0.769
Public administration and defense; compulsory social security	0.875	0.870	0.884	0.881	0.879	0.877	0.875	0.874
Education	0.906	0.902	0.917	0.916	0.916	0.915	0.914	0.913
Health and social work	0.589	0.580	0.608	0.634	0.648	0.644	0.639	0.637
Other community, social, and personal services	0.756	0.750	0.769	0.763	0.759	0.757	0.753	0.751
Private households with employed persons	0.948	0.947	0.951	0.949	0.949	0.948	0.947	0.947

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 10.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.300	0.302	0.292	0.311	0.323	0.329	0.334	0.338
Mining and quarrying	0.358	0.369	0.332	0.350	0.361	0.368	0.373	0.376
Food, beverages, and tobacco	0.346	0.349	0.336	0.354	0.363	0.370	0.377	0.380
Textiles and textile products	0.353	0.386	0.374	0.388	0.395	0.403	0.409	0.413
Leather, leather products, and footwear	0.281	0.303	0.292	0.305	0.311	0.318	0.324	0.330
Wood and products of wood and cork	0.361	0.367	0.352	0.370	0.379	0.387	0.394	0.398
Pulp, paper, paper products, printing, and publishing	0.387	0.402	0.381	0.397	0.405	0.414	0.421	0.424
Coke, refined petroleum, and nuclear fuel	0.529	0.508	0.485	0.515	0.533	0.545	0.559	0.574
Chemicals and chemical products	0.460	0.473	0.455	0.475	0.484	0.495	0.502	0.510
Rubber and plastics	0.501	0.507	0.493	0.513	0.522	0.533	0.541	0.549
Other nonmetallic minerals	0.326	0.325	0.307	0.320	0.326	0.331	0.336	0.339
Basic metals and fabricated metal	0.541	0.545	0.531	0.552	0.563	0.572	0.581	0.589
Machinery, nec	0.512	0.523	0.510	0.529	0.539	0.550	0.558	0.563
Electrical and optical equipment	0.538	0.542	0.531	0.550	0.559	0.571	0.580	0.587
Transport equipment	0.480	0.482	0.472	0.492	0.501	0.516	0.527	0.536
Manufacturing, nec; recycling	0.381	0.387	0.374	0.392	0.401	0.409	0.417	0.423
Electricity, gas, and water supply	0.127	0.132	0.122	0.122	0.120	0.123	0.125	0.125
Construction	0.397	0.384	0.377	0.397	0.408	0.418	0.425	0.431
Sale, maintenance, and repair	0.247	0.269	0.240	0.247	0.250	0.256	0.261	0.266
Wholesale trade and commission trade	0.136	0.155	0.129	0.133	0.134	0.139	0.142	0.144
Retail trade	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hotels and restaurants	0.293	0.297	0.280	0.293	0.299	0.306	0.311	0.317
Inland transport	0.428	0.427	0.409	0.428	0.438	0.446	0.454	0.460
Water transport	0.472	0.474	0.454	0.480	0.495	0.504	0.514	0.523
Air transport	0.492	0.496	0.473	0.496	0.508	0.520	0.529	0.536
Other supporting and auxiliary transport activities	0.176	0.186	0.170	0.178	0.182	0.188	0.193	0.196
Post and telecommunications	0.321	0.331	0.314	0.327	0.334	0.344	0.350	0.353
Financial intermediation	0.135	0.184	0.130	0.136	0.140	0.144	0.147	0.148
Real estate activities	0.097	0.098	0.094	0.099	0.101	0.106	0.110	0.111
Renting of M&Eq and other business activities	0.185	0.201	0.177	0.184	0.187	0.192	0.196	0.197
Public administration and defense; compulsory social security	0.107	0.113	0.101	0.104	0.106	0.109	0.111	0.112
Education	0.071	0.078	0.067	0.068	0.068	0.070	0.072	0.073
Health and social work	0.385	0.395	0.370	0.345	0.331	0.337	0.343	0.347
Other community, social, and personal services	0.200	0.208	0.194	0.201	0.203	0.208	0.212	0.214
Private households with employed persons	0.046	0.048	0.044	0.046	0.046	0.047	0.048	0.049

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 10.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.958	1.950	1.969	1.903	1.856	1.841	1.828	1.822
Mining and quarrying	1.570	1.536	1.576	1.524	1.490	1.476	1.461	1.462
Food, beverages, and tobacco	2.512	2.501	2.530	2.466	2.422	2.411	2.401	2.395
Textiles and textile products	2.008	1.924	1.949	1.893	1.859	1.841	1.823	1.822
Leather, leather products, and footwear	2.022	1.973	1.994	1.948	1.920	1.907	1.892	1.889
Wood and products of wood and cork	2.551	2.548	2.581	2.516	2.473	2.460	2.447	2.439
Pulp, paper, paper products, printing, and publishing	2.228	2.199	2.242	2.186	2.150	2.134	2.118	2.107
Coke, refined petroleum, and nuclear fuel	1.954	2.000	2.039	1.964	1.917	1.904	1.897	1.923
Chemicals and chemical products	1.859	1.841	1.872	1.810	1.772	1.754	1.738	1.738
Rubber and plastics	1.888	1.888	1.918	1.851	1.812	1.790	1.769	1.767
Other nonmetallic minerals	1.847	1.857	1.884	1.841	1.814	1.803	1.795	1.801
Basic metals and fabricated metal	1.737	1.739	1.763	1.698	1.660	1.637	1.616	1.614
Machinery, nec	1.728	1.707	1.732	1.666	1.628	1.606	1.584	1.580
Electrical and optical equipment	1.855	1.865	1.893	1.823	1.781	1.760	1.737	1.734
Transport equipment	2.044	2.052	2.109	2.042	1.999	1.995	1.985	1.983
Manufacturing, nec; recycling	2.243	2.234	2.264	2.204	2.166	2.151	2.135	2.122
Electricity, gas, and water supply	1.314	1.310	1.318	1.312	1.309	1.306	1.303	1.303
Construction	1.862	1.880	1.909	1.848	1.808	1.794	1.780	1.778
Sale, maintenance, and repair	1.566	1.531	1.562	1.541	1.530	1.523	1.514	1.513
Wholesale trade and commission trade	1.467	1.434	1.455	1.442	1.434	1.432	1.428	1.427
Retail trade	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Hotels and restaurants	1.915	1.914	1.943	1.901	1.875	1.864	1.853	1.850
Inland transport	1.683	1.694	1.722	1.665	1.632	1.613	1.597	1.600
Water transport	1.832	1.838	1.874	1.807	1.766	1.742	1.723	1.728
Air transport	1.716	1.714	1.750	1.686	1.648	1.624	1.604	1.609
Other supporting and auxiliary transport activities	1.702	1.690	1.709	1.685	1.669	1.663	1.656	1.653
Post and telecommunications	1.900	1.869	1.897	1.851	1.819	1.809	1.796	1.791
Financial intermediation	1.550	1.460	1.495	1.479	1.468	1.465	1.460	1.458
Real estate activities	1.389	1.376	1.394	1.376	1.362	1.363	1.361	1.359
Renting of M&Eq and other business activities	1.620	1.588	1.613	1.590	1.576	1.570	1.562	1.558
Public administration and defense; compulsory social security	1.332	1.321	1.330	1.319	1.313	1.309	1.305	1.303
Education	1.237	1.227	1.233	1.230	1.229	1.228	1.226	1.224
Health and social work	1.558	1.531	1.559	1.641	1.685	1.672	1.658	1.657
Other community, social, and personal services	1.603	1.587	1.605	1.585	1.573	1.567	1.558	1.556
Private households with employed persons	1.111	1.108	1.110	1.106	1.103	1.102	1.100	1.100

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

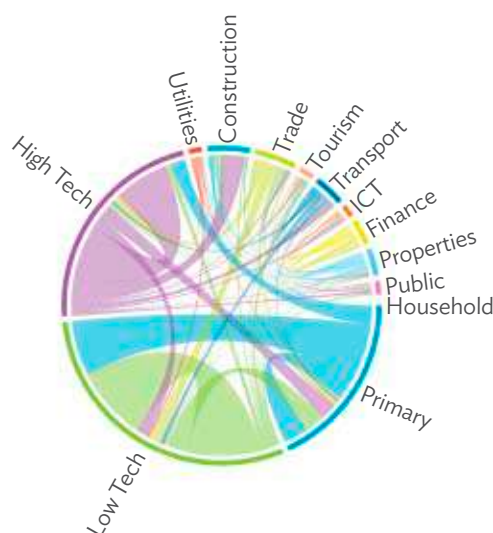
Source: Asian Development Bank Multi-Regional Input-Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

# 10.2

## Viet Nam

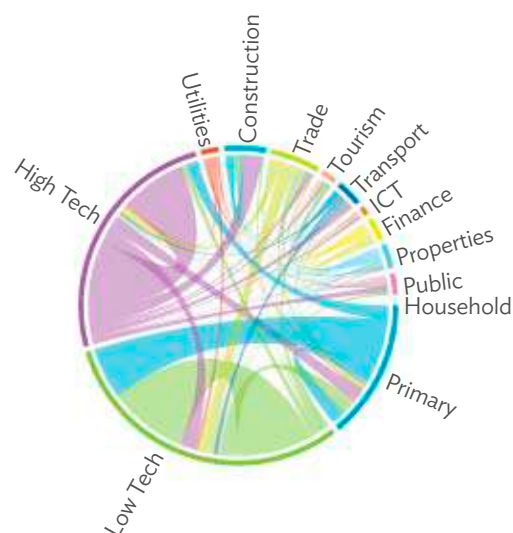
**Figure 10.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

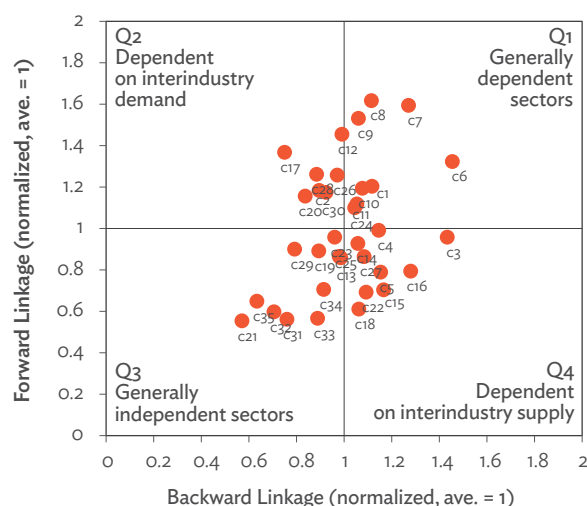
**Figure 10.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

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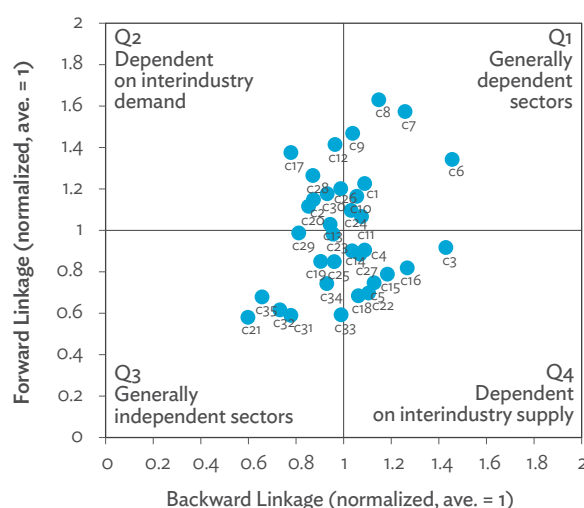
**Figure 10.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

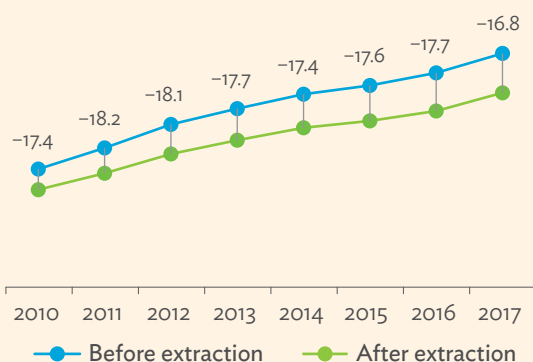
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**Figure 10.2.2b: Backward and Forward Linkages by Industry, 2017**

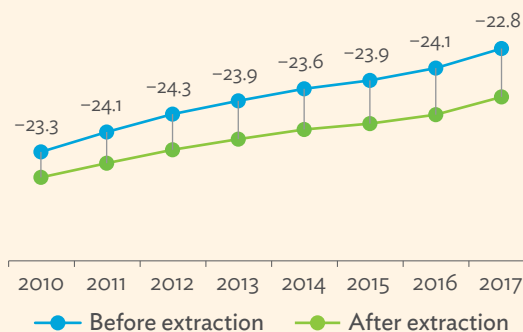


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

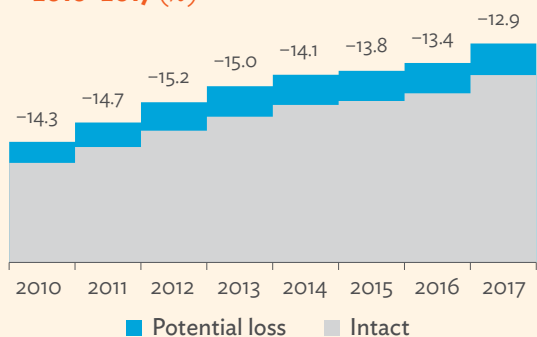
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**Box 10: Hypothetical Extraction of Food, Beverages, and Tobacco Industry in Viet Nam****Figure 10.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**

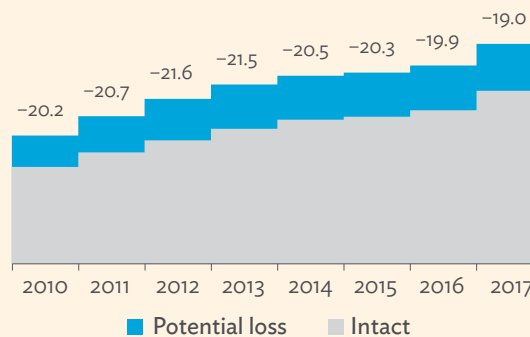
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 10.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**

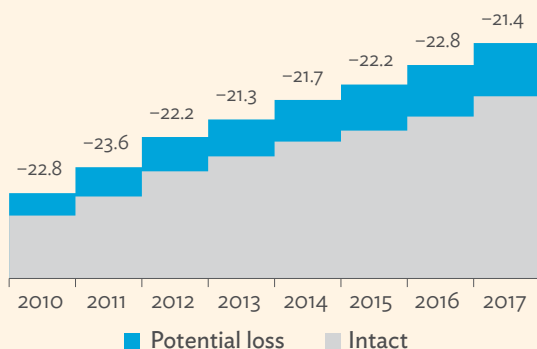
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 10.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**

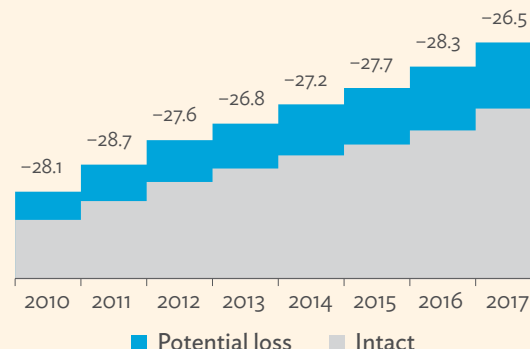
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 10.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 10.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 10.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

Table 10.2.1: Input-Output Backward Linkage

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.117	1.121	1.115	1.103	1.091	1.090	1.090	1.087
Mining and quarrying	0.895	0.883	0.893	0.883	0.876	0.874	0.871	0.872
Food, beverages, and tobacco	1.433	1.438	1.433	1.429	1.425	1.427	1.431	1.429
Textiles and textile products	1.145	1.106	1.104	1.097	1.093	1.090	1.087	1.087
Leather, leather products, and footwear	1.153	1.134	1.129	1.129	1.129	1.129	1.128	1.127
Wood and products of wood and cork	1.455	1.465	1.462	1.458	1.454	1.457	1.459	1.455
Pulp, paper, paper products, printing, and publishing	1.271	1.264	1.270	1.266	1.264	1.263	1.262	1.257
Coke, refined petroleum, and nuclear fuel	1.114	1.150	1.155	1.138	1.127	1.127	1.131	1.147
Chemicals and chemical products	1.060	1.058	1.060	1.049	1.042	1.039	1.036	1.037
Rubber and plastics	1.077	1.086	1.086	1.073	1.065	1.060	1.055	1.055
Other nonmetallic minerals	1.054	1.067	1.067	1.067	1.067	1.067	1.070	1.074
Basic metals and fabricated metal	0.991	0.999	0.999	0.984	0.976	0.969	0.963	0.963
Machinery, nec	0.986	0.981	0.981	0.966	0.958	0.951	0.944	0.942
Electrical and optical equipment	1.058	1.072	1.072	1.056	1.047	1.042	1.036	1.035
Transport equipment	1.166	1.179	1.194	1.183	1.175	1.181	1.183	1.183
Manufacturing, nec; recycling	1.279	1.285	1.283	1.277	1.274	1.273	1.273	1.266
Electricity, gas, and water supply	0.750	0.753	0.747	0.760	0.770	0.773	0.777	0.777
Construction	1.062	1.081	1.082	1.071	1.063	1.062	1.061	1.061
Sale, maintenance, and repair	0.893	0.880	0.885	0.893	0.900	0.902	0.903	0.903
Wholesale trade and commission trade	0.837	0.824	0.824	0.836	0.843	0.848	0.851	0.851
Retail trade	0.570	0.575	0.566	0.579	0.588	0.592	0.596	0.597
Hotels and restaurants	1.093	1.101	1.101	1.102	1.103	1.103	1.105	1.104
Inland transport	0.960	0.974	0.975	0.965	0.959	0.955	0.952	0.954
Water transport	1.045	1.057	1.062	1.047	1.038	1.031	1.027	1.031
Air transport	0.979	0.985	0.991	0.977	0.969	0.962	0.956	0.960
Other supporting and auxiliary transport activities	0.971	0.971	0.968	0.976	0.981	0.985	0.987	0.986
Post and telecommunications	1.084	1.074	1.075	1.073	1.070	1.071	1.070	1.068
Financial intermediation	0.884	0.839	0.847	0.857	0.863	0.867	0.870	0.870
Real estate activities	0.792	0.791	0.789	0.797	0.801	0.807	0.812	0.811
Renting of M&Eq and other business activities	0.924	0.913	0.913	0.921	0.927	0.930	0.931	0.929
Public administration and defense; compulsory social security	0.760	0.759	0.753	0.764	0.772	0.775	0.778	0.778
Education	0.705	0.705	0.698	0.713	0.723	0.727	0.731	0.731
Health and social work	0.889	0.880	0.883	0.951	0.991	0.990	0.989	0.989
Other community, social, and personal services	0.914	0.912	0.909	0.919	0.925	0.928	0.929	0.928
Private households with employed persons	0.634	0.637	0.629	0.641	0.649	0.652	0.656	0.656
	lowest linkage							highest linkage



M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 10.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.210	1.211	1.211	1.218	1.222	1.240	1.256	1.230
Mining and quarrying	1.190	1.256	1.202	1.172	1.151	1.149	1.159	1.150
Food, beverages, and tobacco	0.957	0.940	0.932	0.928	0.921	0.920	0.919	0.911
Textiles and textile products	0.992	0.965	0.962	0.950	0.938	0.920	0.901	0.899
Leather, leather products, and footwear	0.784	0.769	0.762	0.764	0.762	0.762	0.756	0.736
Wood and products of wood and cork	1.333	1.325	1.324	1.336	1.345	1.361	1.371	1.349
Pulp, paper, paper products, printing, and publishing	1.612	1.583	1.603	1.603	1.605	1.600	1.594	1.588
Coke, refined petroleum, and nuclear fuel	1.636	1.594	1.623	1.603	1.593	1.576	1.576	1.646
Chemicals and chemical products	1.548	1.540	1.558	1.528	1.509	1.490	1.466	1.479
Rubber and plastics	1.200	1.196	1.207	1.198	1.193	1.194	1.189	1.166
Other nonmetallic minerals	1.122	1.088	1.081	1.078	1.073	1.042	1.024	1.066
Basic metals and fabricated metal	1.469	1.448	1.471	1.452	1.447	1.409	1.382	1.424
Machinery, nec	0.855	0.971	0.994	0.993	0.995	1.060	1.095	1.026
Electrical and optical equipment	0.926	0.923	0.922	0.915	0.909	0.920	0.920	0.895
Transport equipment	0.696	0.705	0.715	0.726	0.732	0.768	0.792	0.779
Manufacturing, nec; recycling	0.789	0.791	0.789	0.796	0.801	0.812	0.819	0.810
Electricity, gas, and water supply	1.379	1.394	1.383	1.372	1.368	1.368	1.371	1.384
Construction	0.600	0.607	0.620	0.630	0.636	0.662	0.682	0.671
Sale, maintenance, and repair	0.889	0.870	0.852	0.851	0.851	0.843	0.841	0.843
Wholesale trade and commission trade	1.161	1.165	1.109	1.113	1.117	1.117	1.115	1.116
Retail trade	0.542	0.547	0.540	0.553	0.562	0.565	0.566	0.565
Hotels and restaurants	0.684	0.680	0.677	0.685	0.689	0.685	0.683	0.685
Inland transport	0.957	0.976	0.973	0.970	0.966	0.967	0.970	0.978
Water transport	1.104	1.120	1.120	1.107	1.097	1.095	1.092	1.096
Air transport	0.862	0.861	0.869	0.863	0.858	0.846	0.838	0.841
Other supporting and auxiliary transport activities	1.266	1.260	1.265	1.253	1.245	1.226	1.206	1.204
Post and telecommunications	0.861	0.841	0.858	0.870	0.878	0.873	0.873	0.878
Financial intermediation	1.269	1.230	1.260	1.262	1.263	1.261	1.261	1.269
Real estate activities	0.898	0.917	0.926	0.954	0.977	0.974	0.976	0.984
Renting of M&Eq and other business activities	1.180	1.170	1.168	1.173	1.176	1.169	1.169	1.179
Public administration and defense; compulsory social security	0.550	0.555	0.547	0.561	0.570	0.572	0.574	0.574
Education	0.587	0.590	0.582	0.593	0.599	0.600	0.600	0.601
Health and social work	0.554	0.560	0.552	0.564	0.572	0.575	0.577	0.577
Other community, social, and personal services	0.698	0.703	0.700	0.713	0.721	0.721	0.725	0.732
Private households with employed persons	0.639	0.648	0.641	0.652	0.659	0.660	0.663	0.666
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input-Output Database.

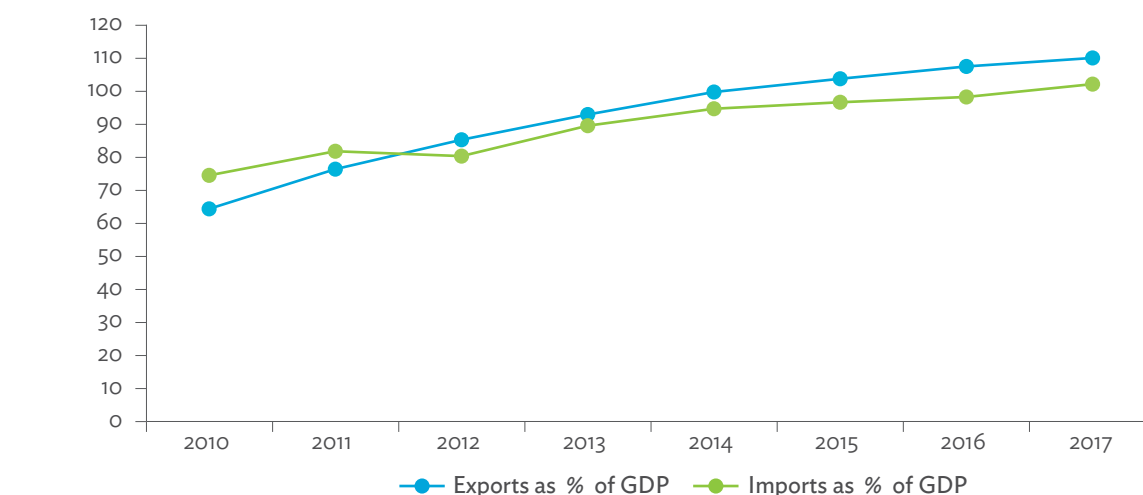


# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

# 10.3

## Viet Nam

**Figure 10.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

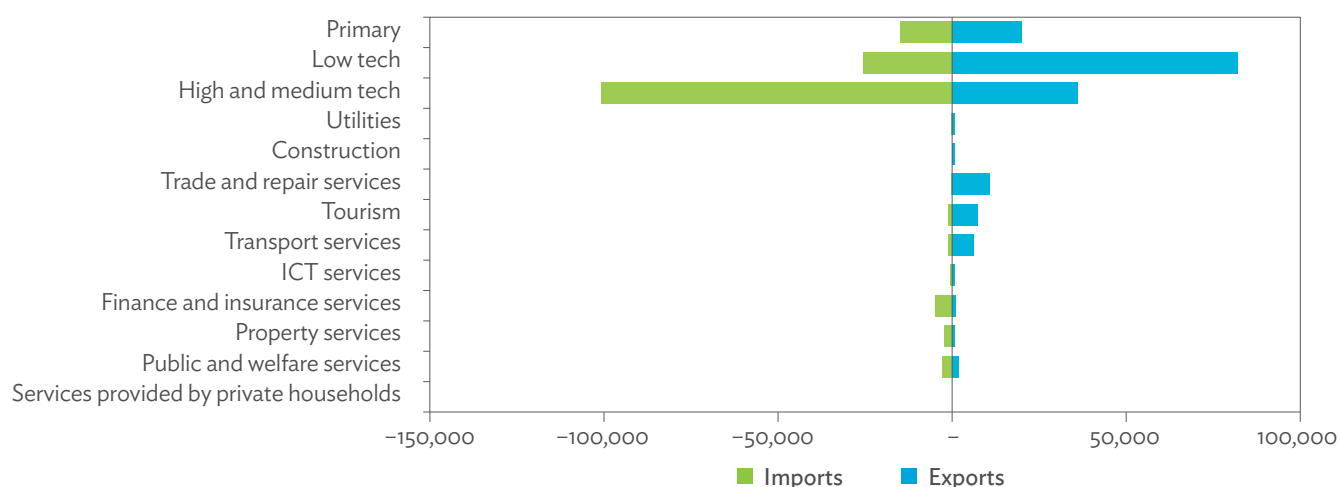


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

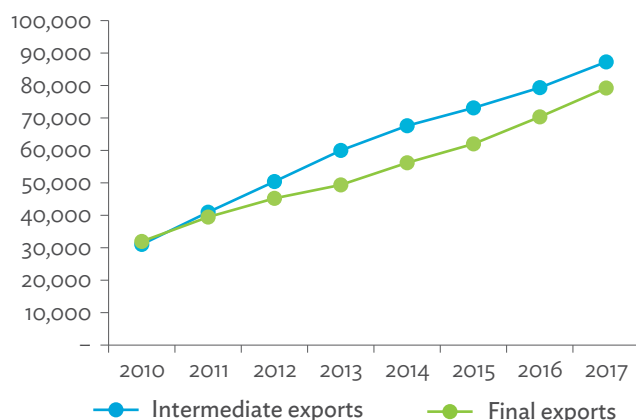


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

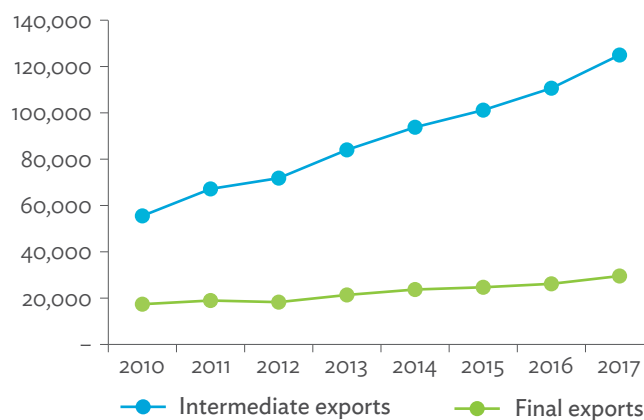


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

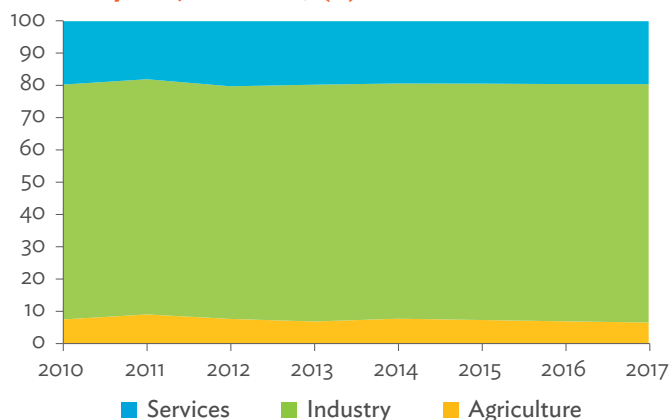


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

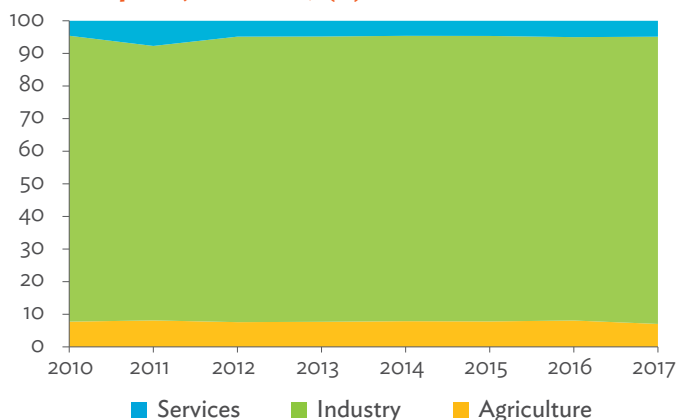
**Figure 10.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

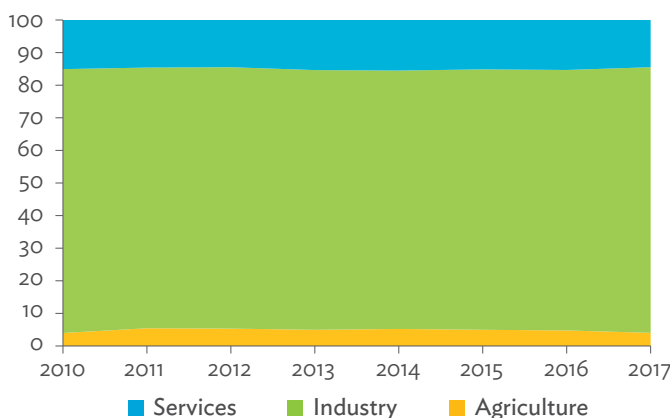
**Figure 10.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

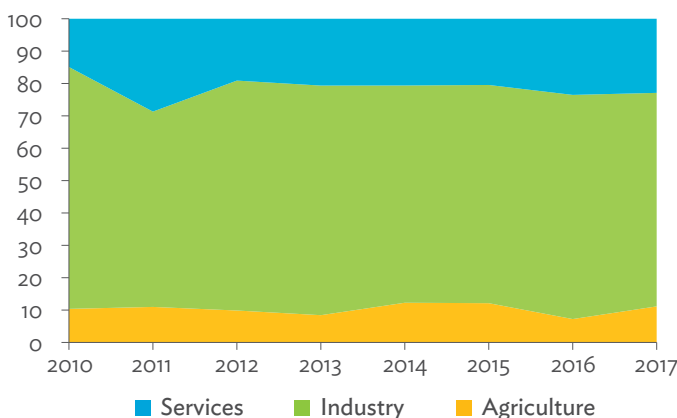
**Figure 10.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

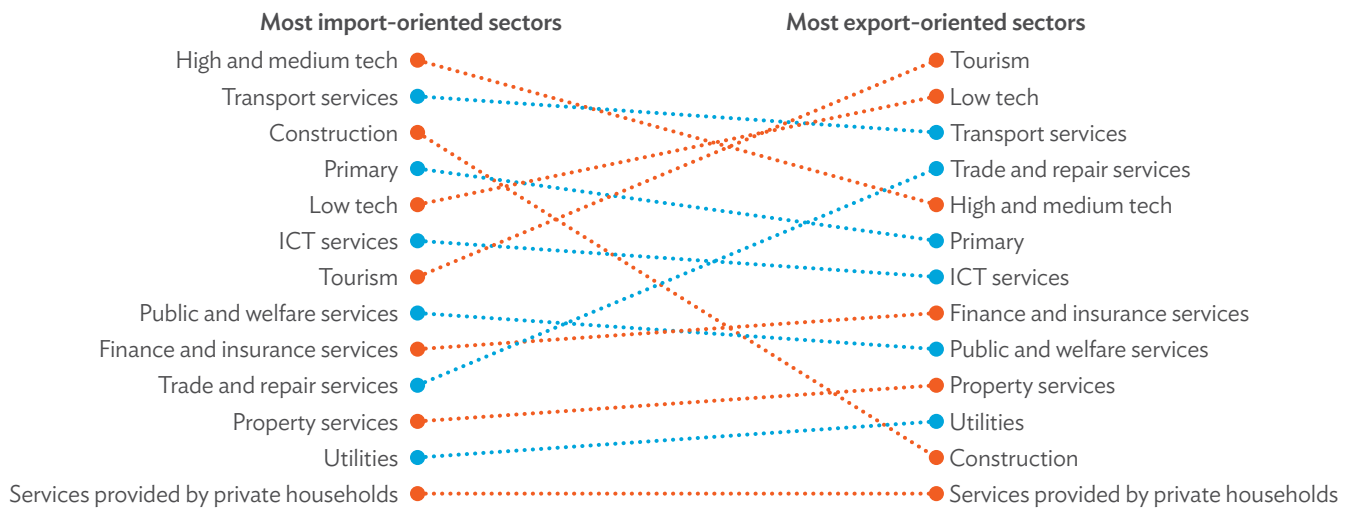
**Figure 10.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

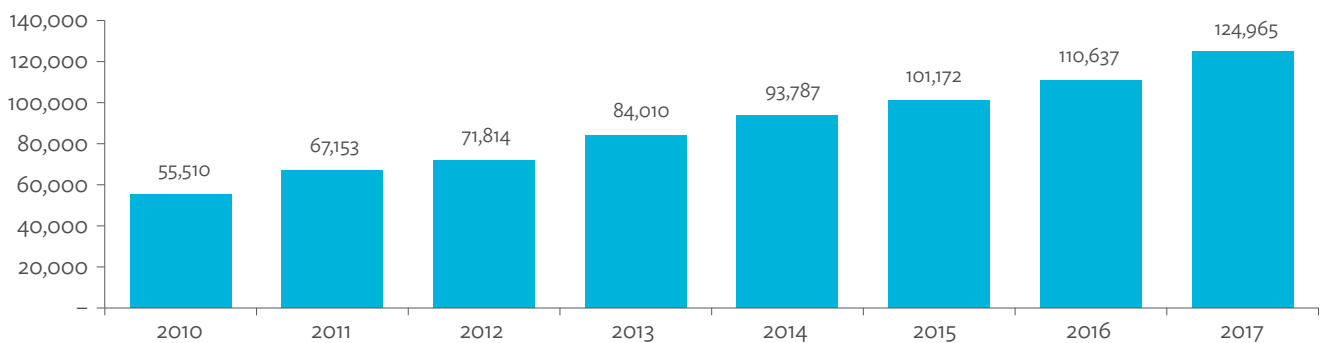


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

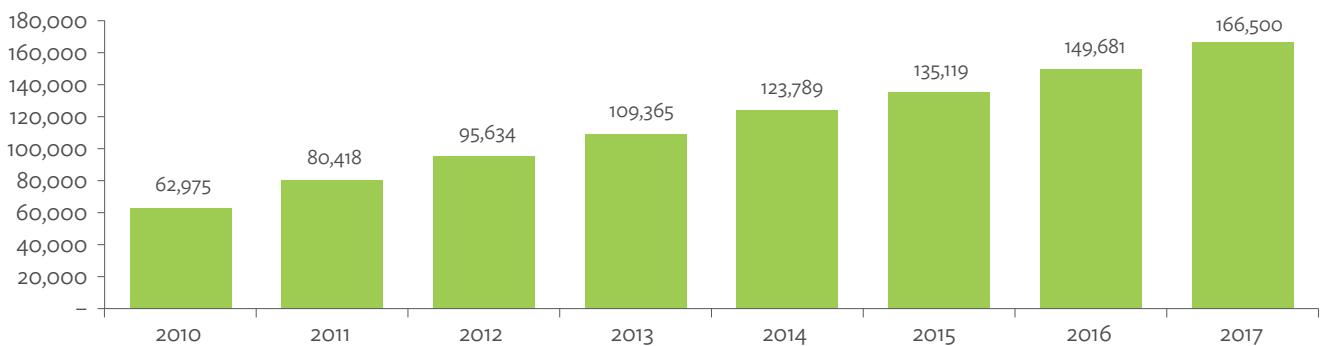


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

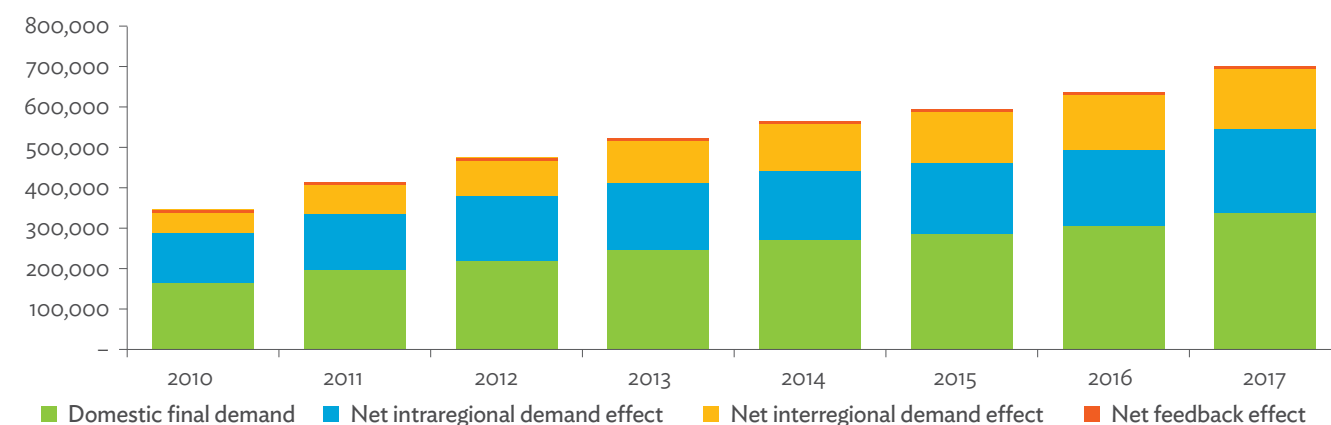
**Figure 10.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**



\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

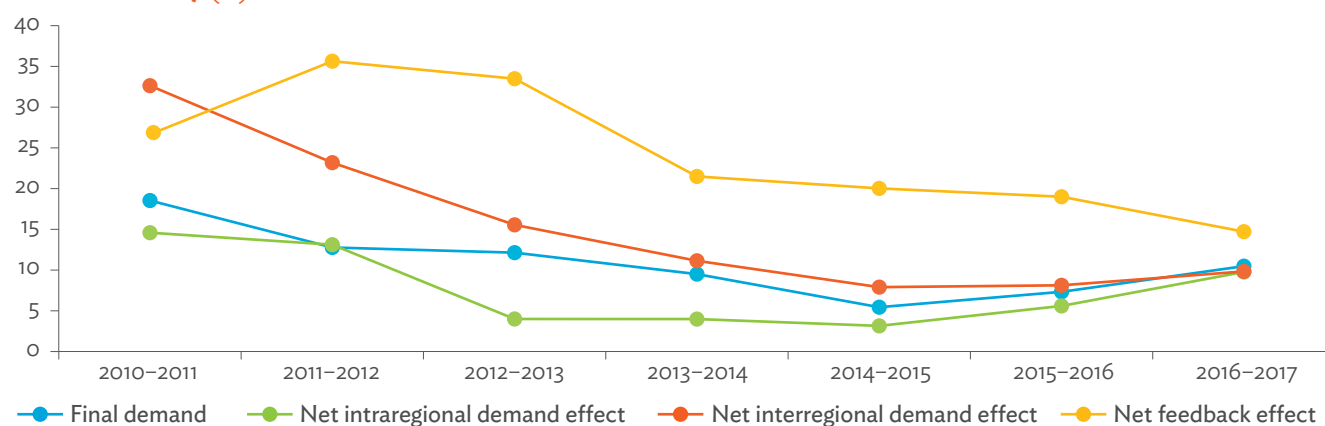
[Click here for figure data](#)

**Figure 10.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

\$ = United States dollar.

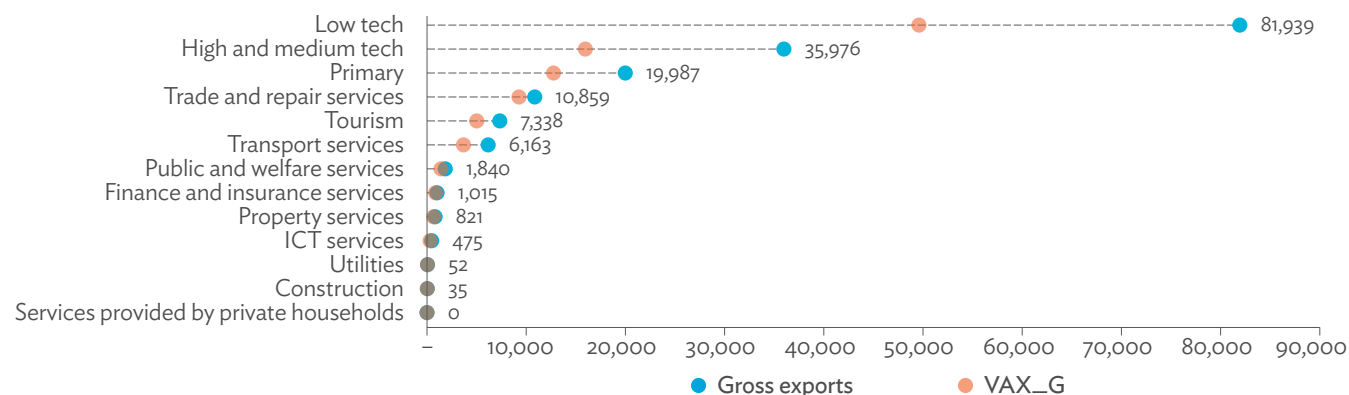
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

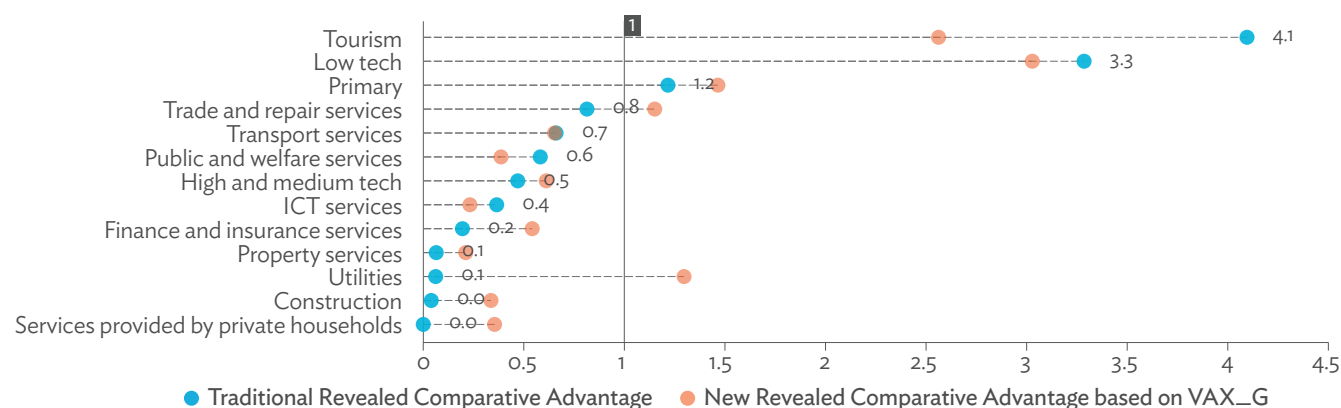
**Figure 10.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 10.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	22,873	27,199	32,011	34,576	36,623	34,256	31,775	33,288
Low tech	73,370	86,647	96,146	106,455	115,610	124,554	135,241	150,077
High and medium tech	22,256	28,213	30,475	34,983	38,681	42,471	47,235	54,665
Business service	31,871	36,998	42,485	47,530	51,986	54,447	58,043	61,245
Personal service	14,530	16,409	19,318	23,650	27,793	29,701	34,058	39,179
Intraregional effects (M1)								
Primary	27,665	34,012	38,599	39,214	39,719	38,952	39,050	38,008
Low tech	37,704	42,235	48,779	50,815	52,390	56,199	61,097	66,519
High and medium tech	32,914	36,792	41,506	43,008	45,274	46,950	50,108	60,804
Business service	23,801	26,893	29,390	31,464	33,583	34,245	35,872	38,886
Personal service	803	880	1,007	1,146	1,287	1,334	1,500	1,739

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 10.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	15,048	19,411	24,409	27,183	30,541	30,370	29,611	29,396
Low tech	16,051	21,312	25,029	29,187	33,603	37,981	42,685	46,709
High and medium tech	15,273	21,889	26,336	31,279	33,385	37,009	41,549	49,037
Business service	11,301	13,951	18,514	21,266	23,472	25,201	27,280	29,846
Personal service	263	278	370	464	560	612	712	799
Feedback effects (M3)								
Primary	33.19	36.65	53.53	70.41	86.67	95.88	102.53	102.75
Low tech	18.28	25.40	32.05	43.50	54.76	70.00	88.63	102.92
High and medium tech	27.00	37.71	48.96	66.02	76.99	96.10	119.90	151.53
Business service	13.41	16.66	23.35	30.80	37.56	45.23	54.43	62.10
Personal service	0.31	0.33	0.48	0.67	0.88	1.07	1.38	1.57

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 10.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.9582	0.9502	0.9686	0.9028	0.8559	0.8407	0.8280	0.8220
Mining and quarrying	0.5697	0.5360	0.5757	0.5241	0.4902	0.4757	0.4612	0.4622
Food, beverages, and tobacco	1.5123	1.5012	1.5303	1.4658	1.4223	1.4110	1.4005	1.3947
Textiles and textile products	1.0080	0.9243	0.9491	0.8933	0.8586	0.8411	0.8232	0.8222
Leather, leather products, and footwear	1.0216	0.9726	0.9936	0.9484	0.9196	0.9067	0.8924	0.8885
Wood and products of wood and cork	1.5510	1.5479	1.5806	1.5159	1.4733	1.4603	1.4474	1.4391
Pulp, paper, paper products, printing, and publishing	1.2277	1.1988	1.2425	1.1856	1.1500	1.1340	1.1177	1.1069
Coke, refined petroleum, and nuclear fuel	0.9537	0.9998	1.0388	0.9645	0.9172	0.9037	0.8975	0.9227
Chemicals and chemical products	0.8589	0.8412	0.8722	0.8098	0.7719	0.7544	0.7377	0.7382
Rubber and plastics	0.8876	0.8884	0.9178	0.8513	0.8117	0.7901	0.7690	0.7675
Other nonmetallic minerals	0.8472	0.8567	0.8836	0.8408	0.8136	0.8028	0.7951	0.8005
Basic metals and fabricated metal	0.7375	0.7387	0.7634	0.6978	0.6604	0.6370	0.6156	0.6139
Machinery, nec	0.7280	0.7066	0.7315	0.6663	0.6283	0.6058	0.5843	0.5797
Electrical and optical equipment	0.8550	0.8649	0.8934	0.8231	0.7810	0.7595	0.7375	0.7345
Transport equipment	1.0438	1.0516	1.1085	1.0418	0.9988	0.9949	0.9849	0.9832
Manufacturing, nec; recycling	1.2430	1.2345	1.2643	1.2041	1.1661	1.1506	1.1350	1.1224
Electricity, gas, and water supply	0.3142	0.3101	0.3179	0.3115	0.3093	0.3063	0.3030	0.3027
Construction	0.8618	0.8797	0.9094	0.8484	0.8081	0.7940	0.7797	0.7780
Sale, maintenance, and repair	0.5661	0.5310	0.5617	0.5414	0.5301	0.5228	0.5140	0.5132
Wholesale trade and commission trade	0.4666	0.4339	0.4549	0.4424	0.4341	0.4318	0.4276	0.4270
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.9155	0.9145	0.9433	0.9014	0.8748	0.8636	0.8535	0.8504
Inland transport	0.6833	0.6944	0.7217	0.6652	0.6315	0.6130	0.5966	0.5998
Water transport	0.8319	0.8382	0.8743	0.8069	0.7657	0.7418	0.7234	0.7277
Air transport	0.7164	0.7137	0.7496	0.6858	0.6480	0.6245	0.6040	0.6088
Other supporting and auxiliary transport activities	0.7024	0.6896	0.7089	0.6847	0.6686	0.6630	0.6561	0.6535
Post and telecommunications	0.9003	0.8687	0.8974	0.8510	0.8190	0.8093	0.7956	0.7908
Financial intermediation	0.5503	0.4599	0.4950	0.4790	0.4675	0.4650	0.4596	0.4578
Real estate activities	0.3889	0.3762	0.3935	0.3761	0.3625	0.3634	0.3613	0.3585
Renting of M&Eq and other business activities	0.6205	0.5878	0.6127	0.5902	0.5756	0.5700	0.5623	0.5579
Public administration and defense; compulsory social security	0.3320	0.3208	0.3296	0.3189	0.3127	0.3089	0.3049	0.3032
Education	0.2366	0.2265	0.2328	0.2301	0.2287	0.2277	0.2257	0.2244
Health and social work	0.5578	0.5308	0.5593	0.6410	0.6846	0.6715	0.6582	0.6573
Other community, social, and personal services	0.6032	0.5873	0.6051	0.5853	0.5733	0.5670	0.5583	0.5556
Private households with employed persons	0.1107	0.1078	0.1098	0.1056	0.1034	0.1018	0.1001	0.0997

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 10.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.7418	0.7606	0.7474	0.8046	0.8343	0.8570	0.8671	0.8833
Mining and quarrying	0.9331	0.9736	0.8875	0.9505	0.9814	1.0165	1.0342	1.0418
Food, beverages, and tobacco	0.8180	0.8337	0.8215	0.8694	0.8922	0.9150	0.9261	0.9406
Textiles and textile products	0.9420	1.0444	1.0232	1.0826	1.0993	1.1269	1.1422	1.1592
Leather, leather products, and footwear	0.7497	0.8214	0.8023	0.8520	0.8698	0.8938	0.9095	0.9293
Wood and products of wood and cork	0.8799	0.9080	0.8888	0.9390	0.9520	0.9759	0.9870	1.0054
Pulp, paper, paper products, printing, and publishing	0.9627	1.0099	0.9749	1.0301	1.0497	1.0735	1.0867	1.0998
Coke, refined petroleum, and nuclear fuel	1.3288	1.2939	1.2458	1.3470	1.3937	1.4609	1.5029	1.5431
Chemicals and chemical products	1.1743	1.2354	1.2088	1.2772	1.3030	1.3371	1.3569	1.3790
Rubber and plastics	1.3070	1.3566	1.3373	1.4100	1.4365	1.4708	1.4926	1.5171
Other nonmetallic minerals	0.8217	0.8309	0.7943	0.8422	0.8597	0.8864	0.9012	0.9093
Basic metals and fabricated metal	1.4885	1.5167	1.5013	1.5841	1.6191	1.6624	1.6938	1.7163
Machinery, nec	1.4020	1.4454	1.4304	1.5074	1.5364	1.5811	1.6071	1.6213
Electrical and optical equipment	1.4849	1.5240	1.5137	1.5928	1.6176	1.6656	1.6940	1.7211
Transport equipment	1.3078	1.3198	1.3193	1.3918	1.4201	1.4763	1.5121	1.5347
Manufacturing, nec; recycling	0.9658	0.9989	0.9814	1.0388	1.0626	1.0925	1.1059	1.1298
Electricity, gas, and water supply	0.3329	0.3490	0.3293	0.3324	0.3273	0.3390	0.3458	0.3474
Construction	1.0545	1.0278	1.0290	1.0995	1.1323	1.1746	1.1994	1.2149
Sale, maintenance, and repair	0.6502	0.7020	0.6448	0.6745	0.6847	0.7088	0.7148	0.7373
Wholesale trade and commission trade	0.3368	0.3755	0.3245	0.3393	0.3420	0.3572	0.3609	0.3704
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.7254	0.7379	0.7087	0.7511	0.7669	0.7955	0.8089	0.8284
Inland transport	1.1072	1.1210	1.0831	1.1541	1.1805	1.2325	1.2604	1.2758
Water transport	1.2196	1.2399	1.1981	1.2902	1.3302	1.3869	1.4222	1.4422
Air transport	1.2693	1.2928	1.2490	1.3318	1.3638	1.4254	1.4590	1.4735
Other supporting and auxiliary transport activities	0.4472	0.4702	0.4397	0.4684	0.4795	0.5026	0.5149	0.5239
Post and telecommunications	0.8480	0.8697	0.8512	0.9003	0.9168	0.9523	0.9686	0.9790
Financial intermediation	0.2866	0.3721	0.2737	0.2910	0.2972	0.3063	0.3085	0.3119
Real estate activities	0.2451	0.2448	0.2441	0.2595	0.2655	0.2839	0.2902	0.2942
Renting of M&Eq and other business activities	0.4599	0.4930	0.4506	0.4745	0.4822	0.4992	0.5041	0.5091
Public administration and defense; compulsory social security	0.2709	0.2849	0.2616	0.2741	0.2773	0.2882	0.2934	0.2961
Education	0.1773	0.1923	0.1708	0.1765	0.1767	0.1851	0.1868	0.1910
Health and social work	1.0022	1.0579	1.0054	0.9458	0.9027	0.9236	0.9393	0.9535
Other community, social, and personal services	0.5088	0.5325	0.5082	0.5325	0.5379	0.5565	0.5652	0.5698
Private households with employed persons	0.1184	0.1239	0.1167	0.1223	0.1237	0.1283	0.1309	0.1330

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 10.3.5: Net Feedback Multipliers (M3), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0007	0.0008	0.0009	0.0011	0.0013	0.0015	0.0016	0.0016
Mining and quarrying	0.0009	0.0009	0.0010	0.0013	0.0015	0.0017	0.0019	0.0019
Food, beverages, and tobacco	0.0008	0.0008	0.0010	0.0012	0.0014	0.0016	0.0017	0.0017
Textiles and textile products	0.0010	0.0012	0.0014	0.0017	0.0019	0.0022	0.0025	0.0026
Leather, leather products, and footwear	0.0009	0.0010	0.0012	0.0014	0.0017	0.0019	0.0022	0.0023
Wood and products of wood and cork	0.0008	0.0008	0.0010	0.0013	0.0014	0.0016	0.0017	0.0017
Pulp, paper, paper products, printing, and publishing	0.0008	0.0009	0.0010	0.0013	0.0014	0.0016	0.0018	0.0018
Coke, refined petroleum, and nuclear fuel	0.0016	0.0014	0.0017	0.0022	0.0026	0.0029	0.0034	0.0031
Chemicals and chemical products	0.0010	0.0010	0.0012	0.0015	0.0017	0.0019	0.0021	0.0021
Rubber and plastics	0.0011	0.0012	0.0014	0.0017	0.0019	0.0021	0.0023	0.0024
Other nonmetallic minerals	0.0008	0.0008	0.0009	0.0012	0.0013	0.0015	0.0017	0.0016
Basic metals and fabricated metal	0.0010	0.0011	0.0013	0.0017	0.0019	0.0022	0.0025	0.0025
Machinery, nec	0.0013	0.0015	0.0017	0.0021	0.0023	0.0027	0.0031	0.0033
Electrical and optical equipment	0.0018	0.0023	0.0027	0.0033	0.0036	0.0042	0.0048	0.0054
Transport equipment	0.0011	0.0013	0.0015	0.0019	0.0021	0.0025	0.0028	0.0030
Manufacturing, nec; recycling	0.0008	0.0009	0.0011	0.0013	0.0015	0.0017	0.0019	0.0019
Electricity, gas, and water supply	0.0003	0.0004	0.0004	0.0005	0.0006	0.0007	0.0008	0.0008
Construction	0.0010	0.0011	0.0013	0.0016	0.0018	0.0021	0.0024	0.0025
Sale, maintenance, and repair	0.0006	0.0007	0.0008	0.0009	0.0010	0.0012	0.0013	0.0014
Wholesale trade and commission trade	0.0003	0.0004	0.0004	0.0005	0.0006	0.0007	0.0007	0.0007
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0008	0.0008	0.0010	0.0012	0.0014	0.0016	0.0018	0.0017
Inland transport	0.0015	0.0013	0.0017	0.0021	0.0024	0.0027	0.0031	0.0028
Water transport	0.0015	0.0014	0.0018	0.0023	0.0026	0.0029	0.0033	0.0031
Air transport	0.0016	0.0014	0.0018	0.0022	0.0025	0.0029	0.0032	0.0031
Other supporting and auxiliary transport activities	0.0005	0.0005	0.0006	0.0008	0.0009	0.0010	0.0012	0.0011
Post and telecommunications	0.0011	0.0013	0.0015	0.0019	0.0020	0.0024	0.0028	0.0030
Financial intermediation	0.0002	0.0002	0.0002	0.0003	0.0003	0.0004	0.0004	0.0004
Real estate activities	0.0002	0.0002	0.0003	0.0004	0.0004	0.0005	0.0006	0.0006
Renting of M&Eq and other business activities	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	0.0010	0.0010
Public administration and defense; compulsory social security	0.0003	0.0003	0.0004	0.0004	0.0005	0.0006	0.0006	0.0006
Education	0.0002	0.0002	0.0002	0.0003	0.0003	0.0004	0.0004	0.0004
Health and social work	0.0008	0.0009	0.0011	0.0012	0.0013	0.0014	0.0015	0.0016
Other community, social, and personal services	0.0005	0.0006	0.0007	0.0008	0.0009	0.0010	0.0012	0.0012
Private households with employed persons	0.0001	0.0001	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 10.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	10,056	6,641	12,736	8,401	16,128	10,990	17,947	11,876	20,880	13,604	20,619	13,306	20,064	12,838	19,987	12,753
Low tech	30,375	19,714	38,829	24,656	44,490	28,859	50,020	31,624	57,318	35,791	64,265	39,630	73,065	44,592	81,939	49,592
High and medium tech	11,609	5,695	15,696	7,719	18,255	9,160	21,506	10,435	23,762	11,257	26,627	12,321	30,214	13,722	35,976	15,957
Utilities	18	15	20	18	26	23	48	42	35	31	41	36	47	41	52	45
Construction	6	3	4	2	9	6	445	268	25	15	28	16	32	18	35	20
Trade and repair services	2,811	2,424	3,530	2,977	6,141	5,339	7,111	6,153	7,908	6,834	8,796	7,562	9,930	8,501	10,859	9,272
Tourism	3,416	2,415	4,118	2,894	4,416	3,179	5,077	3,590	5,693	3,991	6,078	4,221	6,792	4,678	7,338	5,014
Transport services	3,091	1,946	3,728	2,331	4,044	2,611	4,696	2,947	5,253	3,245	5,416	3,302	5,797	3,491	6,163	3,676
ICT services	218	148	268	179	292	200	336	225	376	250	415	272	457	297	475	307
Finance and insurance services	476	411	543	442	599	521	705	608	773	664	871	744	955	813	1,015	862
Property services	320	261	510	408	505	416	596	487	658	534	720	581	790	635	821	659
Public and welfare services	580	453	435	336	729	583	879	694	1,109	879	1,244	982	1,537	1,193	1,840	1,405
Services provided by private households	0	0	–	–	–	–	0	0	0	0	0	0	0	0	0	0

\$ = United States dollar, ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 10.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	1.468	1.649	1.303	1.521	1.386	1.570	1.423	1.581	1.555	1.689	1.576	1.721	1.419	1.645	1.217	1.465
Low tech	3.344	3.121	3.408	3.176	3.300	2.934	3.136	2.845	3.112	2.781	3.178	2.862	3.270	2.936	3.286	3.028
High and medium tech	0.394	0.511	0.418	0.547	0.412	0.537	0.427	0.548	0.417	0.531	0.425	0.550	0.441	0.565	0.470	0.611
Utilities	0.062	1.038	0.057	0.955	0.060	0.974	0.095	1.058	0.060	1.139	0.063	1.226	0.052	1.276	0.062	1.297
Construction	0.023	0.222	0.012	0.225	0.024	0.251	0.075	0.433	0.039	0.220	0.039	0.303	0.035	0.352	0.040	0.337
Trade and repair services	0.570	0.915	0.568	0.926	0.806	1.072	0.830	1.104	0.813	1.116	0.812	1.112	0.822	1.144	0.814	1.151
Tourism	5.142	3.152	4.849	3.040	4.459	2.700	4.380	2.744	4.240	2.685	4.171	2.581	3.686	2.454	4.096	2.562
Transport services	0.823	0.791	0.831	0.800	0.747	0.749	0.776	0.752	0.762	0.738	0.709	0.686	0.694	0.675	0.662	0.652
ICT services	0.515	0.340	0.530	0.308	0.441	0.300	0.447	0.301	0.438	0.301	0.437	0.293	0.414	0.275	0.365	0.232
Finance and insurance services	0.246	0.598	0.232	0.569	0.216	0.583	0.215	0.570	0.205	0.546	0.206	0.537	0.196	0.536	0.195	0.542
Property services	0.078	0.232	0.099	0.237	0.083	0.238	0.080	0.233	0.075	0.227	0.072	0.217	0.070	0.214	0.065	0.211
Public and welfare services	0.493	0.342	0.310	0.239	0.423	0.311	0.419	0.310	0.471	0.331	0.462	0.328	0.485	0.344	0.582	0.387
Services provided by private households	0.000	0.190	0.000	0.170	0.000	0.147	0.000	0.202	0.000	0.254	0.000	0.288	0.000	0.329	0.000	0.355

ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

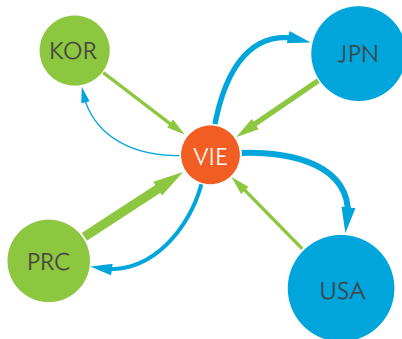
Source: Asian Development Bank Multi-Regional Input-Output Database.

# 10.4

## GLOBAL VALUE CHAIN INDICATORS

### Viet Nam

**Figure 10.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

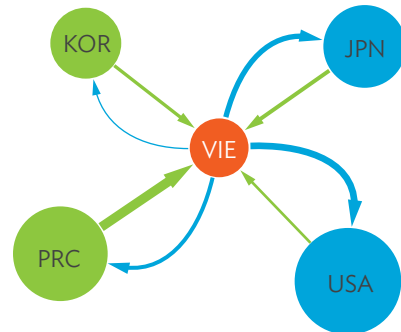
JPN = Japan, KOR = Republic of Korea, PRC = People's Republic of China, USA = United States, VIE = Viet Nam.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

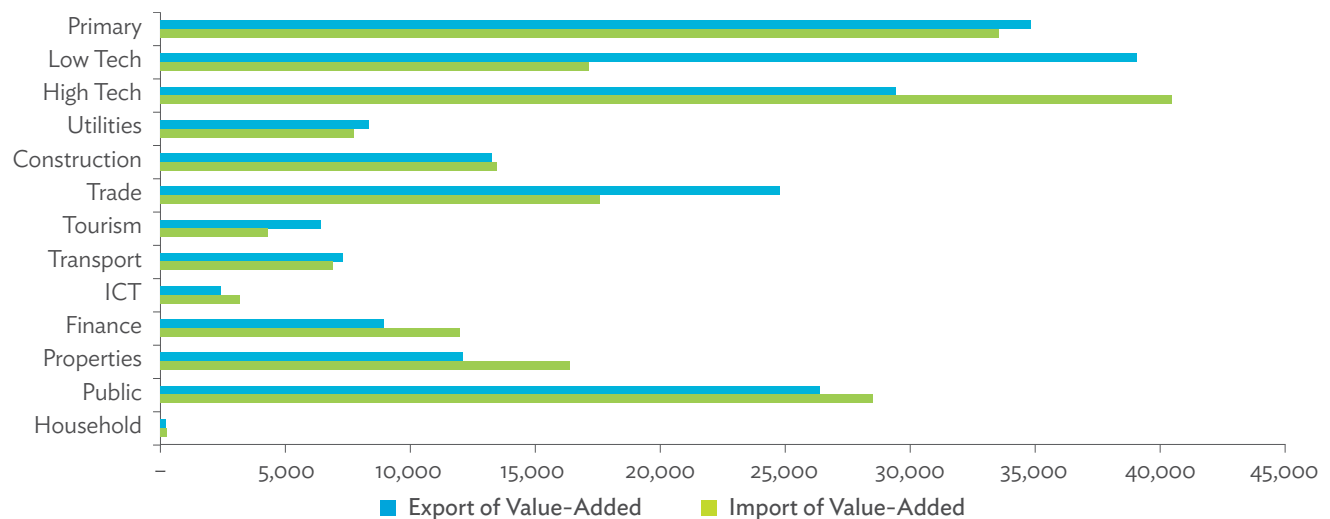
JPN = Japan, KOR = Republic of Korea, PRC = People's Republic of China, USA = United States, VIE = Viet Nam.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

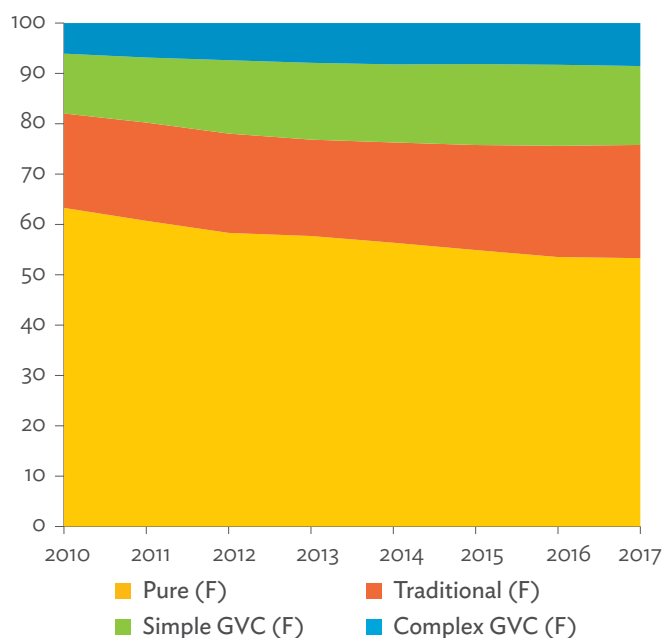
[Click here for figure data](#)

**Figure 10.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

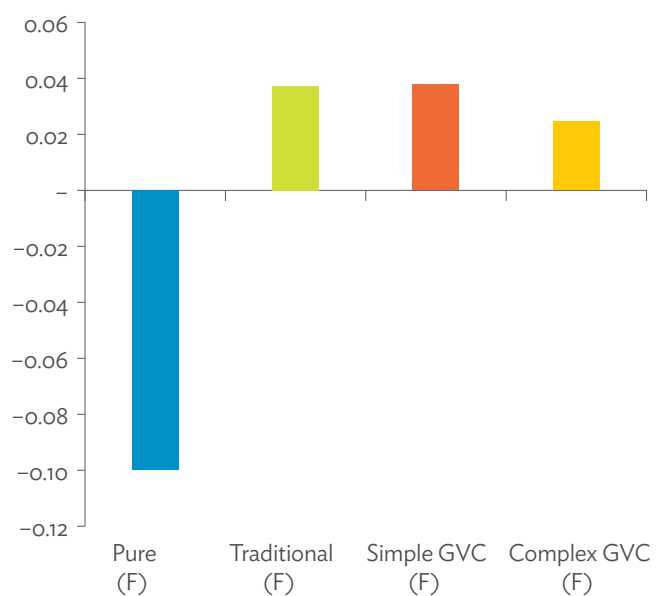
[Click here for figure data](#)

**Figure 10.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 10.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

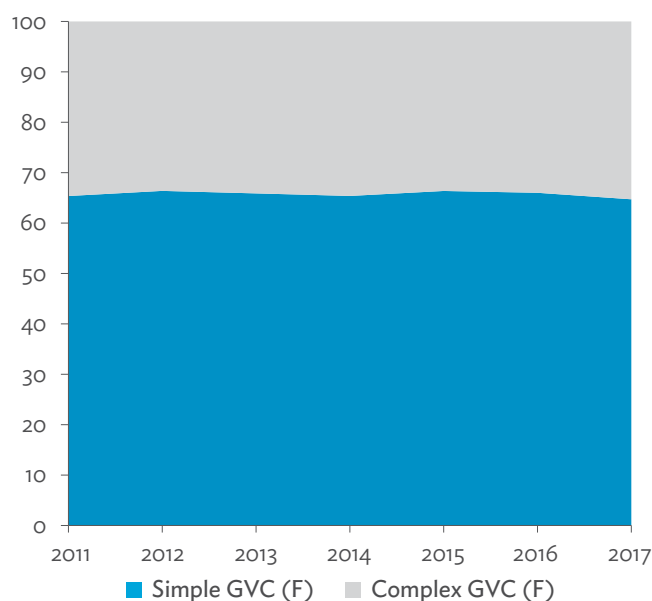
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 10.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

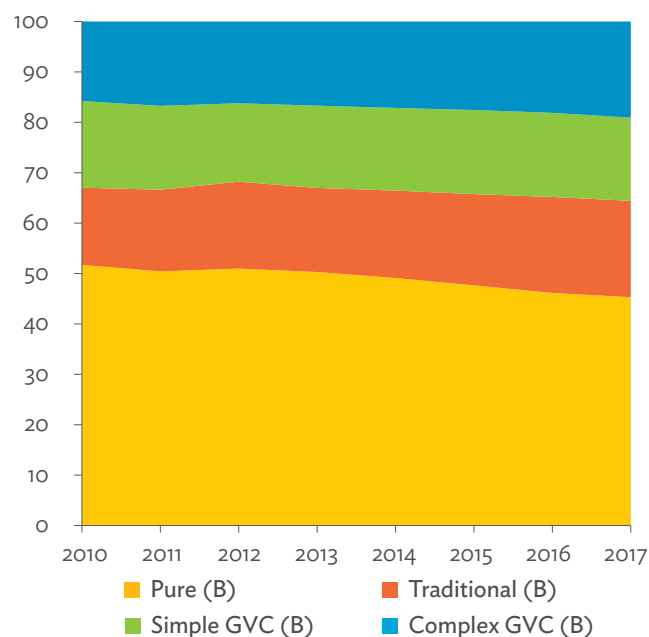


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

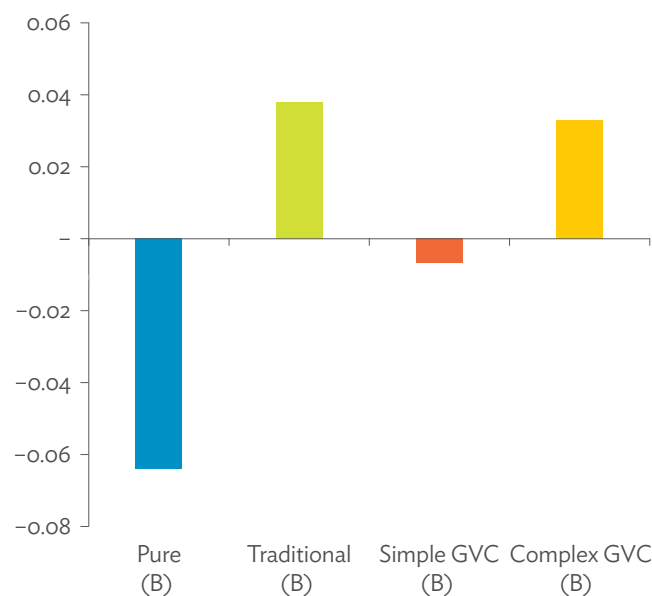


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



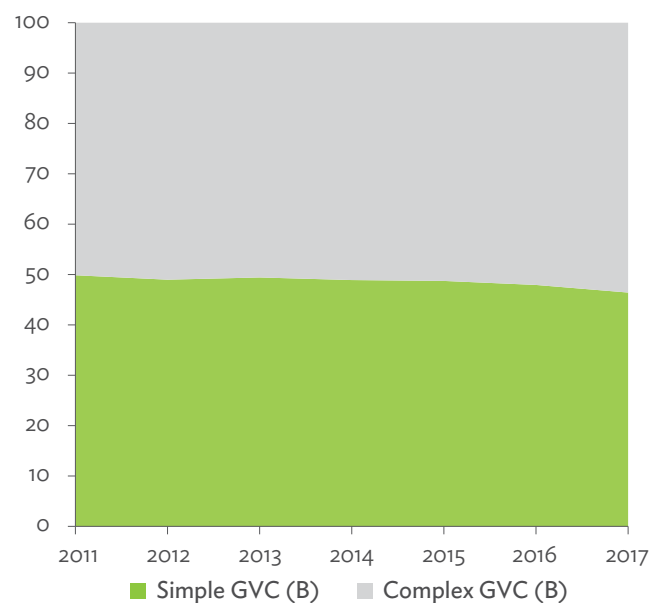
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

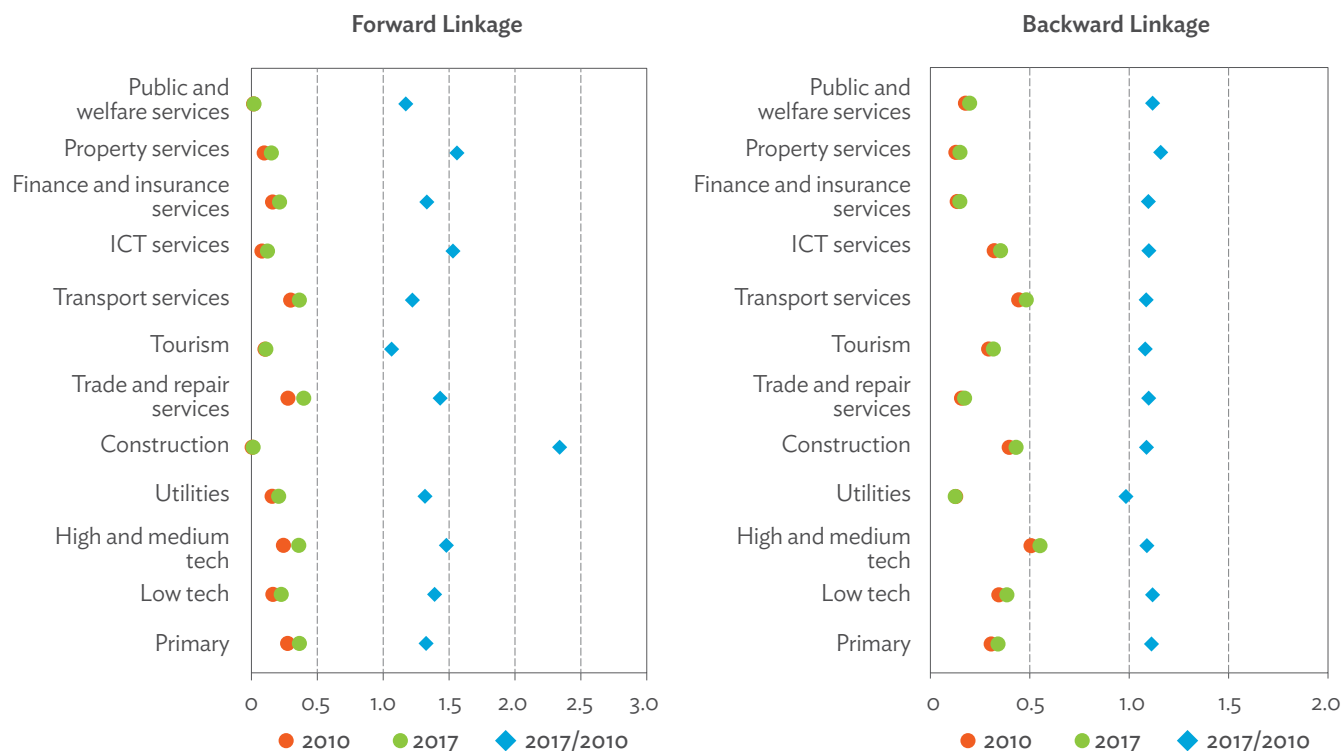


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

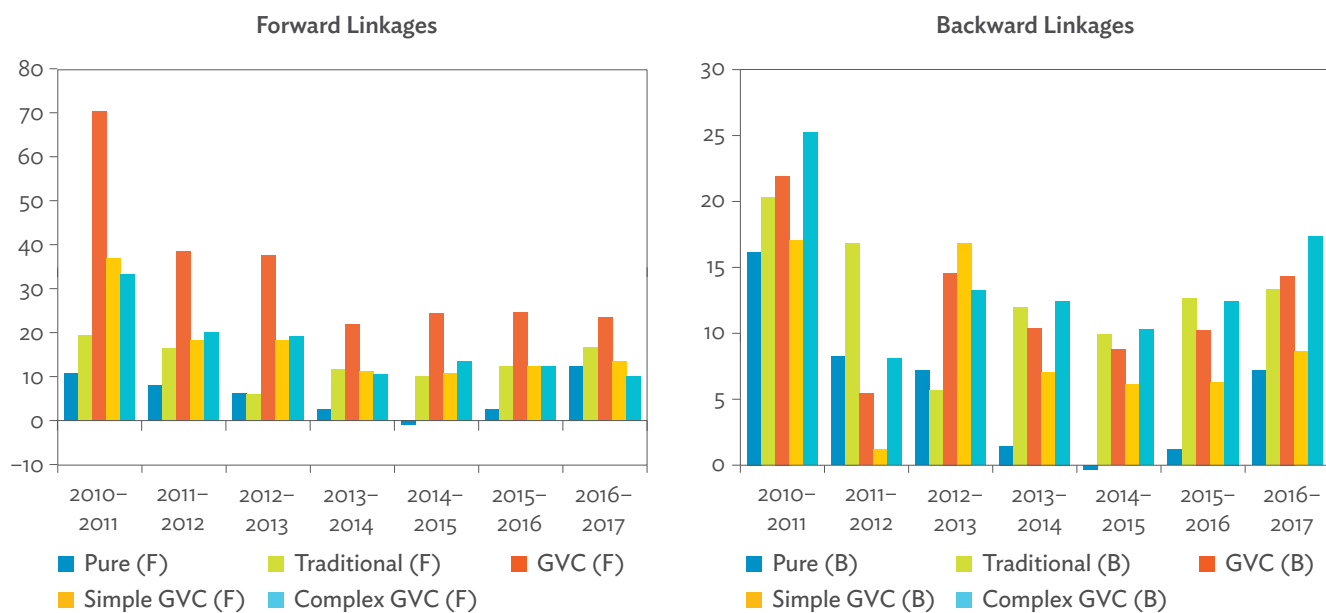


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 10.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



# APPENDIXES

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## Southeastern Asia and the Pacific



# APPENDIX 1: INPUT-OUTPUT TABLES FOR 2010 AND 2017— BRUNEI DARUSSALAM

A1



**Table A1.1: Brunei Darussalam Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	3	2	1	0	0	0	0
Mining and quarrying	c2	1	958	0	0	0	0	0
Food, beverages, and tobacco	c3	2	3	1	0	0	0	0
Textiles and textile products	c4	0	1	0	0	0	0	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0	0
Wood and products of wood and cork	c6	0	1	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	3	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	5	244	1	0	0	0	1
Chemicals and chemical products	c9	0	5	0	0	0	0	0
Rubber and plastics	c10	0	2	0	0	0	0	0
Other nonmetallic minerals	c11	0	4	0	0	0	0	0
Basic metals and fabricated metal	c12	0	8	0	0	0	0	0
Machinery, nec	c13	0	3	0	0	0	0	0
Electrical and optical equipment	c14	0	6	0	0	0	0	0
Transport equipment	c15	0	6	0	0	0	0	0
Manufacturing, nec; recycling	c16	0	3	0	0	0	0	0
Electricity, gas, and water supply	c17	1	17	1	0	0	0	0
Construction	c18	1	23	1	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	2	26	1	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	6	61	3	1	0	0	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1	9	0	0	0	0	0
Hotels and restaurants	c22	0	24	1	0	0	0	0
Inland transport	c23	0	3	0	0	0	0	0
Water transport	c24	2	21	1	0	0	0	0
Air transport	c25	1	12	1	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	1	8	0	0	0	0	0
Post and telecommunications	c27	1	68	1	0	0	0	1
Financial intermediation	c28	3	71	1	1	0	0	0
Real estate activities	c29	0	1	0	0	0	0	0
Renting of M&Eq and other business activities	c30	0	92	0	0	0	0	0
Public administration and defense; compulsory social security	c31	0	5	0	0	0	0	0
Education	c32	0	4	0	0	0	0	0
Health and social work	c33	0	6	0	0	0	0	0
Other community, social, and personal services	c34	0	3	0	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A1.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
0	0	0	0	2	1	1	1	1	0	7	0	0
2,199	42	3	5	9	3	7	7	3	38	55	3	5
2	0	0	0	0	0	0	0	0	0	5	1	1
0	0	0	0	0	0	0	0	0	0	8	1	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0	0	3	0	1
29	1	1	2	2	1	2	2	1	30	74	7	23
1	0	0	0	0	0	0	0	0	1	1	0	0
0	0	1	2	0	0	0	0	0	0	5	1	1
0	0	2	5	1	0	0	0	0	0	10	2	2
0	0	0	0	0	0	0	0	0	0	7	1	1
0	0	0	0	0	0	0	0	0	0	3	0	1
0	0	0	0	0	0	0	0	0	0	6	1	1
0	0	0	0	0	0	0	0	0	0	6	1	1
0	0	0	0	0	0	0	0	0	0	3	0	1
27	1	0	1	1	0	0	0	0	1	4	4	11
2	0	0	0	0	0	0	0	0	1	78	5	3
4	0	1	1	1	0	1	1	0	5	28	17	8
8	0	2	3	3	1	2	2	1	4	67	9	12
1	0	0	0	0	0	0	0	0	1	9	1	2
20	0	0	0	1	0	1	1	0	1	34	4	8
0	0	0	0	0	0	0	0	0	0	3	1	1
2	0	1	1	1	0	1	1	0	1	21	3	4
1	0	0	0	0	0	0	0	0	0	9	9	9
1	0	0	0	0	0	0	0	0	0	7	6	1
8	0	0	1	2	1	1	1	1	4	48	8	21
29	1	0	1	1	1	1	1	1	8	50	16	44
1	0	0	0	0	0	0	0	0	0	14	0	0
7	0	0	0	0	0	0	0	0	5	105	17	10
6	0	0	0	0	0	0	0	0	0	3	1	1
4	0	0	0	0	0	0	0	0	0	2	1	1
6	0	0	0	0	0	0	0	0	0	4	1	1
2	0	0	0	0	0	0	0	0	0	4	1	1
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A1.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	0	5	0	0	0	0
Mining and quarrying	c2	1	1	0	9	14	1
Food, beverages, and tobacco	c3	0	3	0	1	1	0
Textiles and textile products	c4	0	0	0	1	1	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	3	4	5	88	135	5
Chemicals and chemical products	c9	0	0	0	2	3	0
Rubber and plastics	c10	0	0	0	0	0	0
Other nonmetallic minerals	c11	0	0	0	0	1	0
Basic metals and fabricated metal	c12	0	0	0	0	1	0
Machinery, nec	c13	0	0	0	0	0	0
Electrical and optical equipment	c14	0	0	0	0	0	0
Transport equipment	c15	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	0	0	0	0	0	0
Electricity, gas, and water supply	c17	1	4	0	0	1	1
Construction	c18	0	2	0	1	2	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	3	3	2	3	2
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	2	8	0	4	9	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	1	0	1	1	0
Hotels and restaurants	c22	1	1	0	2	14	2
Inland transport	c23	0	0	0	0	0	0
Water transport	c24	1	3	0	14	3	2
Air transport	c25	1	1	0	1	2	9
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	1	0	1	2	14
Post and telecommunications	c27	3	3	1	7	7	3
Financial intermediation	c28	6	8	3	9	28	9
Real estate activities	c29	0	0	0	0	1	0
Renting of M&Eq and other business activities	c30	1	1	0	6	4	5
Public administration and defense; compulsory social security	c31	0	0	1	2	2	14
Education	c32	0	0	0	0	0	0
Health and social work	c33	0	0	0	1	1	0
Other community, social, and personal services	c34	0	0	0	1	1	0
Private households with employed persons	c35	-	-	-	-	-	-

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Table A1.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
0	0	0	0	66	7	5	0	–	59	–
2	2	3	3	21	3	2	0	–	25	–
1	1	0	1	6	1	1	0	–	10	–
1	0	0	0	1	1	0	0	–	9	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	1	–
1	1	0	1	2	1	0	0	–	3	–
3	9	1	11	97	7	4	1	–	63	–
0	0	0	0	2	0	0	0	–	1	–
3	1	0	0	4	0	0	0	–	2	–
5	2	0	0	7	1	1	0	–	5	–
1	0	0	0	3	1	0	0	–	7	–
0	0	0	0	1	0	0	0	–	3	–
1	0	0	0	2	0	0	0	–	5	–
1	0	0	0	2	0	0	0	–	5	–
0	0	0	0	1	0	0	0	–	3	–
4	4	1	4	42	4	3	1	–	80	–
3	6	17	9	37	7	6	0	–	45	–
4	3	0	5	31	4	3	1	–	57	–
11	5	1	7	56	11	6	1	–	105	0
2	1	0	1	8	1	1	0	–	15	0
4	7	0	12	15	2	2	1	–	50	–
1	0	0	1	3	1	0	0	–	2	–
3	2	0	4	20	3	2	0	–	11	–
3	3	0	13	27	1	1	1	–	11	–
1	1	0	2	6	1	1	0	–	6	–
79	18	1	20	44	11	8	2	–	64	–
5	23	7	19	3	2	2	1	–	328	–
0	0	2	2	10	0	1	1	–	454	–
9	10	2	55	53	32	18	1	–	19	0
2	1	0	1	60	1	0	0	–	9	2,295
1	1	0	1	30	11	2	0	–	47	468
1	1	0	1	26	1	5	0	–	12	208
1	1	0	2	15	1	1	1	–	71	–
–	–	–	–	–	–	–	–	–	–	–

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Table A1.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Domestic</b>						
Agriculture, hunting, forestry, and fishing	c1	–	5	(0)	2	172
Mining and quarrying	c2	–	856	31	4,843	9,157
Food, beverages, and tobacco	c3	–	6	0	3	51
Textiles and textile products	c4	–	1	(0)	4	31
Leather, leather products, and footwear	c5	–	0	(0)	1	1
Wood and products of wood and cork	c6	–	1	0	0	5
Pulp, paper, paper products, printing, and publishing	c7	–	6	0	2	25
Coke, refined petroleum, and nuclear fuel	c8	–	–	(5)	3,396	4,252
Chemicals and chemical products	c9	–	–	(0)	65	81
Rubber and plastics	c10	–	4	0	2	31
Other nonmetallic minerals	c11	–	8	0	3	62
Basic metals and fabricated metal	c12	–	26	(0)	6	66
Machinery, nec	c13	–	10	(0)	2	25
Electrical and optical equipment	c14	–	20	(0)	5	51
Transport equipment	c15	–	20	(0)	5	51
Manufacturing, nec; recycling	c16	–	10	(0)	2	25
Electricity, gas, and water supply	c17	–	2	–	0	224
Construction	c18	–	1,162	0	14	1,429
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	60	–	22	302
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	179	(0)	64	654
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	25	(0)	9	92
Hotels and restaurants	c22	–	2	(0)	12	221
Inland transport	c23	–	0	(0)	12	30
Water transport	c24	–	–	–	141	269
Air transport	c25	–	–	–	224	341
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	0	–	59	122
Post and telecommunications	c27	–	7	0	7	449
Financial intermediation	c28	–	3	–	14	700
Real estate activities	c29	–	8	(0)	1	497
Renting of M&Eq and other business activities	c30	–	23	0	48	529
Public administration and defense; compulsory social security	c31	–	–	–	24	2,430
Education	c32	–	0	(0)	2	578
Health and social work	c33	–	3	–	3	282
Other community, social, and personal services	c34	–	2	0	2	111
Private households with employed persons	c35	–	–	–	–	–

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Table A1.1 Import Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Imports						
Agriculture, hunting, forestry, and fishing	m1	2	0	1	0	0	0	0
Mining and quarrying	m2	0	55	0	0	0	0	1
Food, beverages, and tobacco	m3	32	5	14	0	0	0	0
Textiles and textile products	m4	0	2	0	1	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	3	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	19	0	0	0	0	1
Coke, refined petroleum, and nuclear fuel	m8	0	7	0	0	0	0	0
Chemicals and chemical products	m9	0	2	0	0	0	0	0
Rubber and plastics	m10	0	1	0	0	0	0	0
Other nonmetallic minerals	m11	0	2	0	0	0	0	0
Basic metals and fabricated metal	m12	0	53	0	0	0	0	1
Machinery, nec	m13	0	22	0	0	0	0	0
Electrical and optical equipment	m14	0	44	0	0	0	0	1
Transport equipment	m15	0	43	0	0	0	0	1
Manufacturing, nec; recycling	m16	0	23	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	11	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	1	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	8	0	2	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	1	0	0	0	0	0
Hotels and restaurants	m22	0	30	1	0	0	0	0
Inland transport	m23	0	2	0	0	0	0	0
Water transport	m24	0	3	0	0	0	0	0
Air transport	m25	0	3	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	1	0	0	0	0	0
Post and telecommunications	m27	0	9	0	0	0	0	0
Financial intermediation	m28	0	2	0	0	0	0	0
Real estate activities	m29	0	1	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	84	0	1	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	1	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	3	0	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	70	2,143	33	9	1	3	14
Taxes less subsidies on products	r99	1	(8)	0	(0)	(0)	(0)	(0)
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	101	7,022	18	22	0	2	11
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	172	9,157	51	31	1	5	25

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Table A1.1 Import Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	1	1	1
Mining and quarrying	m2	7	0	0	1	1	0	1
Food, beverages, and tobacco	m3	5	0	0	1	2	1	1
Textiles and textile products	m4	2	0	0	0	2	1	1
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	1	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	1	0	0	0	0	0	0
Chemicals and chemical products	m9	0	0	0	0	0	0	0
Rubber and plastics	m10	0	0	2	3	0	0	0
Other nonmetallic minerals	m11	0	0	3	6	1	0	0
Basic metals and fabricated metal	m12	1	0	0	0	1	0	1
Machinery, nec	m13	1	0	0	0	0	0	0
Electrical and optical equipment	m14	1	0	0	0	1	0	1
Transport equipment	m15	1	0	0	0	1	0	1
Manufacturing, nec; recycling	m16	1	0	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	1	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	3	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	25	0	0	0	1	0	1
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	1	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	1	0	0	0	0	0	0
Financial intermediation	m28	1	0	0	0	0	0	0
Real estate activities	m29	1	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	7	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	2	0	0	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	2,423	46	20	40	40	15	31
Taxes less subsidies on products	r99	(8)	(0)	(0)	(0)	(0)	(0)	(0)
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	1,837	35	11	22	26	10	20
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	4,252	81	31	62	66	25	51

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Table A1.1 Import Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
1	0	0	5	0	0	0	4	0	0	0	0
1	0	2	51	8	11	2	0	0	1	4	1
1	1	6	18	2	9	1	46	0	5	5	1
1	1	0	36	3	0	0	0	0	3	3	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	4	0	1	0	0	0	0	0	0
0	0	1	17	3	5	1	0	0	0	1	1
0	0	1	2	0	1	0	0	0	3	4	0
0	0	0	2	0	0	0	0	0	0	0	0
0	0	0	9	1	1	0	0	0	0	0	0
0	0	0	14	3	2	0	0	0	0	0	0
1	0	2	44	7	10	1	0	0	0	3	1
0	0	1	19	3	4	1	0	0	0	1	0
1	0	2	38	5	8	1	0	0	0	3	1
1	0	2	37	6	8	1	0	0	0	3	1
0	0	1	14	2	3	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	11	2	1	0	0	0	1	1	1
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	16	1	1	0	1	0	1	2	0
0	0	0	1	0	0	0	0	0	0	0	0
1	0	1	41	5	10	1	1	0	3	18	2
0	0	0	3	0	1	0	0	0	0	0	0
0	0	0	3	0	1	0	0	0	1	0	0
0	0	0	2	2	2	0	0	0	0	0	2
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	6	1	3	0	0	0	1	1	0
0	0	0	2	1	1	0	0	0	0	1	0
0	0	0	2	0	0	0	0	0	0	1	0
0	0	4	92	16	9	1	1	0	5	3	4
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	3	0	1	0	0	0	0	1	0
-	-	-	-	-	-	-	-	-	-	-	-
<b>31</b>	<b>15</b>	<b>128</b>	<b>1,177</b>	<b>197</b>	<b>269</b>	<b>38</b>	<b>111</b>	<b>16</b>	<b>179</b>	<b>295</b>	<b>90</b>
(0)	(0)	(1)	3	(3)	(5)	(1)	1	(0)	(4)	(6)	(4)
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
20	10	97	248	108	391	55	109	15	94	51	35
-	-	-	-	-	-	-	-	-	-	-	-
<b>51</b>	<b>25</b>	<b>224</b>	<b>1,429</b>	<b>302</b>	<b>654</b>	<b>92</b>	<b>221</b>	<b>30</b>	<b>269</b>	<b>341</b>	<b>122</b>

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Table A1.1 Import Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	47
Mining and quarrying	m2	7	2	0	2	11
Food, beverages, and tobacco	m3	1	2	2	3	54
Textiles and textile products	m4	2	2	0	1	2
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	1	1	0	1	1
Pulp, paper, paper products, printing, and publishing	m7	3	3	0	3	6
Coke, refined petroleum, and nuclear fuel	m8	0	0	0	0	2
Chemicals and chemical products	m9	0	0	0	0	2
Rubber and plastics	m10	3	1	0	0	3
Other nonmetallic minerals	m11	7	2	0	0	7
Basic metals and fabricated metal	m12	6	1	0	1	10
Machinery, nec	m13	3	1	0	0	4
Electrical and optical equipment	m14	5	1	0	1	13
Transport equipment	m15	5	1	0	1	9
Manufacturing, nec; recycling	m16	2	0	0	0	3
Electricity, gas, and water supply	m17	0	0	0	0	0
Construction	m18	1	1	0	6	4
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1	2	0	4	13
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	1	0
Hotels and restaurants	m22	5	9	0	14	14
Inland transport	m23	0	0	0	1	1
Water transport	m24	0	0	0	1	2
Air transport	m25	1	1	0	3	6
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0
Post and telecommunications	m27	9	2	0	3	5
Financial intermediation	m28	0	1	0	1	1
Real estate activities	m29	0	0	0	1	1
Renting of M&Eq and other business activities	m30	8	9	2	49	62
Public administration and defense; compulsory social security	m31	0	0	0	0	1
Education	m32	0	0	0	0	1
Health and social work	m33	0	0	0	0	2
Other community, social, and personal services	m34	0	1	0	1	1
Private households with employed persons	m35	–	–	–	–	–
Total intermediate consumption	r60	224	147	43	274	991
Taxes less subsidies on products	r99	(7)	(4)	(0)	(8)	(23)
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	232	557	455	262	1,462
International transport margins		–	–	–	–	–
Output at basic prices	r69	449	700	497	529	2,430

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Table A1.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
6	3	0	–	43	–	–	0	(0)	–	<b>115</b>
3	2	0	–	38	–	–	177	(1)	–	<b>388</b>
14	7	1	–	69	–	–	0	0	–	<b>309</b>
3	1	0	–	35	–	–	0	(0)	–	<b>101</b>
0	0	0	–	0	–	–	0	(0)	–	<b>0</b>
1	0	0	–	3	–	–	9	(0)	–	<b>27</b>
5	1	0	–	15	–	–	49	(0)	–	<b>139</b>
0	0	0	–	2	–	–	0	(0)	–	<b>24</b>
0	7	0	–	6	–	–	0	(0)	–	<b>20</b>
0	0	0	–	2	–	–	2	0	–	<b>32</b>
1	1	0	–	2	–	–	4	0	–	<b>58</b>
2	2	0	–	31	–	–	142	(1)	–	<b>324</b>
1	1	0	–	14	–	–	60	(0)	–	<b>137</b>
2	2	0	–	47	–	–	120	(1)	–	<b>301</b>
2	2	0	–	33	–	–	120	(1)	–	<b>279</b>
1	1	0	–	9	–	–	43	(0)	–	<b>106</b>
0	0	0	–	0	0	–	0	0	–	<b>0</b>
3	1	0	–	1	0	–	6	0	–	<b>54</b>
0	0	0	–	0	0	–	0	0	–	<b>3</b>
2	1	0	–	6	0	–	6	0	–	<b>72</b>
0	0	0	–	1	0	–	0	0	–	<b>7</b>
3	2	1	–	54	0	–	0	0	–	<b>245</b>
1	0	0	–	1	0	–	0	0	–	<b>12</b>
1	0	0	–	2	–	–	0	0	–	<b>17</b>
0	0	0	–	3	–	–	0	0	–	<b>28</b>
0	0	0	–	0	0	–	0	0	–	<b>3</b>
2	1	0	–	6	0	–	0	0	–	<b>52</b>
0	0	0	–	10	–	–	0	0	–	<b>22</b>
0	0	0	–	3	0	–	0	0	–	<b>12</b>
28	13	1	–	10	0	–	1	0	–	<b>412</b>
0	0	0	–	0	31	–	0	–	–	<b>32</b>
1	0	0	–	2	18	–	0	(0)	–	<b>23</b>
0	0	0	–	0	18	–	0	0	–	<b>23</b>
0	0	0	–	5	0	–	0	0	–	<b>21</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
<b>200</b>	<b>127</b>	<b>18</b>	<b>–</b>	<b>2,037</b>	<b>3,036</b>	<b>–</b>	<b>3,187</b>	<b>23</b>	<b>9,000</b>	<b>26,743</b>
(2)	(1)	(1)	–	(21)	–	–	39	0	–	<b>(64)</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
380	156	93	–	–	–	–	–	–	–	<b>13,966</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
<b>578</b>	<b>282</b>	<b>111</b>	<b>–</b>	<b>2,017</b>	<b>3,036</b>	<b>–</b>	<b>3,226</b>	<b>23</b>	<b>9,000</b>	<b>40,645</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table A1.2: Brunei Darussalam Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	4	1	1	0	0	0	0
Mining and quarrying	c2	1	627	0	0	0	0	1
Food, beverages, and tobacco	c3	5	1	1	0	0	0	0
Textiles and textile products	c4	0	0	0	0	0	0	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	2	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	5	174	1	0	0	0	1
Chemicals and chemical products	c9	0	3	0	0	0	0	0
Rubber and plastics	c10	0	1	0	0	0	0	0
Other nonmetallic minerals	c11	1	3	0	0	0	0	0
Basic metals and fabricated metal	c12	0	6	0	0	0	0	0
Machinery, nec	c13	0	1	0	0	0	0	0
Electrical and optical equipment	c14	0	4	0	0	0	0	0
Transport equipment	c15	0	3	0	0	0	0	0
Manufacturing, nec; recycling	c16	0	2	0	0	0	0	0
Electricity, gas, and water supply	c17	1	11	0	0	0	0	0
Construction	c18	1	22	1	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	2	19	1	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	6	47	2	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1	6	0	0	0	0	0
Hotels and restaurants	c22	0	15	0	0	0	0	0
Inland transport	c23	0	2	0	0	0	0	0
Water transport	c24	4	27	1	0	0	0	0
Air transport	c25	3	27	1	1	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	1	6	0	0	0	0	0
Post and telecommunications	c27	1	40	1	0	0	0	0
Financial intermediation	c28	3	52	1	0	0	0	0
Real estate activities	c29	0	2	0	0	0	0	0
Renting of M&Eq and other business activities	c30	1	95	0	0	0	0	0
Public administration and defense; compulsory social security	c31	0	4	0	0	0	0	0
Education	c32	0	3	0	0	0	0	0
Health and social work	c33	0	5	0	0	0	0	0
Other community, social, and personal services	c34	0	3	0	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A1.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
0	0	0	0	1	0	1	1	0	0	7	0	0
1,646	23	1	2	4	2	3	3	2	39	88	7	12
1	0	0	0	0	0	0	0	0	1	3	0	1
0	0	0	0	0	0	0	0	0	0	5	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0	0	3	0	1
25	0	0	1	1	0	1	1	0	34	68	5	20
0	0	0	0	0	0	0	0	0	1	1	0	0
0	0	1	1	0	0	0	0	0	0	5	1	1
0	0	1	3	0	0	0	0	0	0	12	2	2
0	0	0	0	0	0	0	0	0	0	7	1	1
0	0	0	0	0	0	0	0	0	0	2	0	0
0	0	0	0	0	0	0	0	0	0	5	1	1
0	0	0	0	0	0	0	0	0	0	3	0	1
0	0	0	0	0	0	0	0	0	0	3	0	1
20	0	0	0	0	0	0	0	0	1	4	3	8
2	0	0	0	0	0	0	0	0	2	75	5	3
4	0	0	1	1	0	0	0	0	6	26	13	6
9	0	1	1	1	0	1	1	0	4	68	8	11
1	0	0	0	0	0	0	0	0	1	9	1	1
16	0	0	0	0	0	0	0	0	1	28	3	6
0	0	0	0	0	0	0	0	0	0	4	0	1
4	0	0	1	1	0	1	1	0	2	35	4	6
2	0	0	0	1	0	1	1	0	1	27	23	25
1	0	0	0	0	0	0	0	0	0	7	4	1
5	0	0	0	1	0	0	0	0	3	37	5	15
26	0	0	0	1	0	1	1	0	9	48	13	38
2	0	0	0	0	0	0	0	0	0	13	0	1
9	0	0	0	0	0	0	0	0	7	140	19	12
5	0	0	0	0	0	0	0	0	0	3	1	1
3	0	0	0	0	0	0	0	0	0	3	0	0
6	0	0	0	0	0	0	0	0	0	4	1	1
3	0	0	0	0	0	0	0	0	0	6	1	1
–	–	–	–	–	–	–	–	–	–	–	–	–

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Table A1.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	0	6	0	0	0	0
Mining and quarrying	c2	2	1	0	10	10	2
Food, beverages, and tobacco	c3	0	6	0	1	0	0
Textiles and textile products	c4	0	0	0	0	0	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	3	4	3	101	87	6
Chemicals and chemical products	c9	0	0	0	2	2	0
Rubber and plastics	c10	0	0	0	0	0	0
Other nonmetallic minerals	c11	0	0	0	0	0	0
Basic metals and fabricated metal	c12	0	0	0	0	0	0
Machinery, nec	c13	0	0	0	0	0	0
Electrical and optical equipment	c14	0	0	0	0	0	0
Transport equipment	c15	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	0	0	0	0	0	0
Electricity, gas, and water supply	c17	1	3	0	0	1	1
Construction	c18	0	2	0	2	2	2
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	3	2	3	2	2
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1	8	0	6	7	3
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	1	0	1	1	0
Hotels and restaurants	c22	1	0	0	2	8	2
Inland transport	c23	0	0	0	0	0	0
Water transport	c24	1	4	0	29	3	5
Air transport	c25	3	3	0	2	4	39
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	1	0	1	1	17
Post and telecommunications	c27	2	3	0	6	4	3
Financial intermediation	c28	5	8	2	10	19	11
Real estate activities	c29	0	0	0	0	1	0
Renting of M&Eq and other business activities	c30	2	2	0	10	3	9
Public administration and defense; compulsory social security	c31	0	0	0	2	1	17
Education	c32	0	0	0	1	0	0
Health and social work	c33	0	0	0	1	1	1
Other community, social, and personal services	c34	0	0	0	1	2	0
Private households with employed persons	c35	–	–	–	–	–	–

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Table A1.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
0	0	0	0	62	6	5	0	–	89	–
5	4	3	3	24	4	4	1	–	52	–
0	0	0	0	7	1	1	0	–	14	–
0	0	0	0	0	0	0	0	–	8	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	1	–
0	1	0	0	1	1	0	0	–	3	–
2	9	1	8	76	5	4	1	–	84	–
0	0	0	0	1	0	0	0	–	2	–
2	1	0	0	3	0	0	0	–	2	–
4	2	0	0	7	1	1	0	–	4	–
1	0	0	0	2	0	0	0	–	6	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	1	0	0	0	–	5	–
0	0	0	0	1	0	0	0	–	3	–
0	0	0	0	1	0	0	0	–	2	–
2	3	1	2	29	2	2	1	–	89	–
2	7	16	10	31	7	7	0	–	40	–
2	3	0	4	24	3	3	1	–	62	–
7	7	1	7	46	9	7	1	–	115	–
1	1	0	1	6	1	1	0	–	15	–
2	7	0	8	11	2	2	1	–	59	–
0	0	0	1	2	1	0	0	–	2	–
4	3	0	5	29	4	3	1	–	23	–
5	12	1	32	72	3	2	2	–	58	–
1	1	0	2	5	1	1	0	–	9	–
39	15	1	12	28	7	6	2	–	68	–
3	25	7	14	3	2	2	1	–	432	–
0	1	2	2	7	0	1	1	–	495	–
8	16	3	59	59	34	24	2	–	27	–
1	1	0	1	48	1	0	0	–	13	–
0	1	0	1	23	8	2	0	–	67	–
1	1	0	1	22	1	6	0	–	18	–
1	2	0	2	11	1	1	1	–	83	–
–	–	–	–	–	–	–	–	–	–	–

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Table A1.2 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	–	5	13	22	225
Mining and quarrying	c2	–	1,086	230	2,990	6,893
Food, beverages, and tobacco	c3	–	1	2	9	57
Textiles and textile products	c4	–	0	2	14	33
Leather, leather products, and footwear	c5	–	0	(0)	0	0
Wood and products of wood and cork	c6	–	2	(3)	0	3
Pulp, paper, paper products, printing, and publishing	c7	–	11	(12)	1	14
Coke, refined petroleum, and nuclear fuel	c8	–	–	180	2,331	3,241
Chemicals and chemical products	c9	–	–	(1)	32	44
Rubber and plastics	c10	–	5	(11)	2	17
Other nonmetallic minerals	c11	–	10	(25)	2	34
Basic metals and fabricated metal	c12	–	35	(30)	4	36
Machinery, nec	c13	–	9	(8)	6	14
Electrical and optical equipment	c14	–	26	(24)	7	28
Transport equipment	c15	–	19	(16)	12	28
Manufacturing, nec; recycling	c16	–	13	(11)	2	14
Electricity, gas, and water supply	c17	–	2	54	25	270
Construction	c18	–	1,367	99	51	1,756
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	87	23	36	341
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	249	50	50	738
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	32	7	15	103
Hotels and restaurants	c22	–	1	45	48	270
Inland transport	c23	–	0	(8)	8	17
Water transport	c24	–	–	50	91	343
Air transport	c25	–	–	(144)	22	230
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	1	39	115	214
Post and telecommunications	c27	–	9	43	26	383
Financial intermediation	c28	–	5	161	25	929
Real estate activities	c29	–	12	(12)	2	528
Renting of M&Eq and other business activities	c30	0	32	(23)	7	559
Public administration and defense; compulsory social security	c31	2,493	–	(89)	10	2,516
Education	c32	479	0	64	7	666
Health and social work	c33	239	5	14	13	340
Other community, social, and personal services	c34	–	2	6	26	155
Private households with employed persons	c35	–	–	–	–	–

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Table A1.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	4	1	1	0	0	0	0
Mining and quarrying	m2	0	104	0	0	0	0	0
Food, beverages, and tobacco	m3	43	7	17	0	0	0	0
Textiles and textile products	m4	0	2	0	1	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	4	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	17	0	0	0	0	1
Coke, refined petroleum, and nuclear fuel	m8	0	3	0	0	0	0	0
Chemicals and chemical products	m9	0	1	0	0	0	0	0
Rubber and plastics	m10	0	2	0	0	0	0	0
Other nonmetallic minerals	m11	0	3	0	0	0	0	0
Basic metals and fabricated metal	m12	0	41	0	0	0	0	1
Machinery, nec	m13	0	14	0	0	0	0	0
Electrical and optical equipment	m14	0	32	0	0	0	0	0
Transport equipment	m15	0	33	0	0	0	0	1
Manufacturing, nec; recycling	m16	0	13	0	0	0	0	0
Electricity, gas, and water supply	m17	0	1	0	0	0	0	0
Construction	m18	0	2	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	1	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1	4	0	1	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	1	0	0	0	0	0
Hotels and restaurants	m22	0	28	1	0	0	0	0
Inland transport	m23	0	2	0	0	0	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	1	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	19	0	0	0	0	0
Financial intermediation	m28	0	5	0	0	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	59	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	1	0	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	93	1,614	37	8	0	2	8
Taxes less subsidies on products	r99	1	(7)	0	(0)	(0)	(0)	(0)
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	132	5,286	20	25	0	1	6
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	225	6,893	57	33	0	3	14

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Table A1.2 Imports Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Industry								
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	1	0	1
Mining and quarrying	m2	43	1	0	0	1	0	1
Food, beverages, and tobacco	m3	1	0	0	0	1	0	1
Textiles and textile products	m4	0	0	0	0	1	0	1
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	0	0	0	0	0	0	0
Chemicals and chemical products	m9	0	0	0	0	0	0	0
Rubber and plastics	m10	0	0	1	2	0	0	0
Other nonmetallic minerals	m11	0	0	2	3	0	0	0
Basic metals and fabricated metal	m12	0	0	0	0	1	0	1
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0	0
Transport equipment	m15	0	0	0	0	1	0	0
Manufacturing, nec; recycling	m16	0	0	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	6	0	0	0	1	0	1
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	1	0	0	0	0	0	0
Financial intermediation	m28	1	0	0	0	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	1	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	1,848	25	11	22	22	8	17
Taxes less subsidies on products	r99	(7)	(0)	(0)	(0)	(0)	(0)	(0)
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	1,400	19	6	12	14	5	11
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	3,241	44	17	34	36	14	28

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Table A1.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
1	0	0	8	0	0	0	6	0	0	0	0
0	0	5	18	2	2	0	0	0	1	1	0
1	0	9	34	3	14	2	62	0	7	4	3
1	0	0	58	5	0	0	1	0	4	2	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	6	1	2	0	0	0	0	0	0
0	0	1	29	5	7	1	1	0	0	1	1
0	0	1	1	0	0	0	0	0	1	1	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	10	2	1	0	0	0	0	0	0
0	0	1	19	4	2	0	0	0	0	0	1
1	0	3	69	11	14	2	1	0	1	2	2
0	0	1	24	4	5	1	0	0	0	1	1
0	0	2	49	7	10	1	1	0	1	2	1
0	0	2	51	8	10	1	1	0	1	2	1
0	0	2	30	4	6	1	0	0	0	1	1
0	0	0	0	0	1	0	0	0	0	0	0
0	0	0	13	1	1	0	0	0	0	0	0
0	0	0	2	1	1	0	0	0	0	0	0
0	0	1	13	1	2	0	1	0	1	1	0
0	0	0	2	0	0	0	0	0	0	0	0
1	0	2	76	9	15	2	1	0	4	14	5
0	0	0	4	1	1	0	0	0	0	0	0
0	0	0	2	0	0	0	0	0	1	0	0
0	0	0	2	2	2	0	0	0	0	0	2
0	0	0	1	0	0	0	0	0	0	0	1
0	0	2	30	5	12	2	2	0	4	2	2
0	0	1	7	2	5	1	1	0	1	2	1
0	0	0	4	0	0	0	0	0	0	0	0
0	0	6	136	20	11	1	1	0	6	2	7
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	2	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
<b>17</b>	<b>8</b>	<b>154</b>	<b>1,448</b>	<b>221</b>	<b>302</b>	<b>39</b>	<b>136</b>	<b>9</b>	<b>227</b>	<b>200</b>	<b>155</b>
(0)	(0)	(1)	3	(3)	(5)	(1)	1	(0)	(3)	(5)	(3)
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
11	5	117	305	122	440	65	133	8	120	35	62
-	-	-	-	-	-	-	-	-	-	-	-
<b>28</b>	<b>14</b>	<b>270</b>	<b>1,756</b>	<b>341</b>	<b>738</b>	<b>103</b>	<b>270</b>	<b>17</b>	<b>343</b>	<b>230</b>	<b>214</b>

*continued on next page*

Table A1.2 Imports Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	64
Mining and quarrying	m2	1	1	0	1	4
Food, beverages, and tobacco	m3	1	4	2	5	75
Textiles and textile products	m4	2	3	0	1	3
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	1	1	0	1	2
Pulp, paper, paper products, printing, and publishing	m7	4	5	0	5	10
Coke, refined petroleum, and nuclear fuel	m8	0	0	0	0	1
Chemicals and chemical products	m9	0	0	0	0	1
Rubber and plastics	m10	4	1	0	0	5
Other nonmetallic minerals	m11	6	2	0	0	8
Basic metals and fabricated metal	m12	6	2	0	1	14
Machinery, nec	m13	2	1	0	0	5
Electrical and optical equipment	m14	5	2	0	1	14
Transport equipment	m15	5	2	0	1	12
Manufacturing, nec; recycling	m16	3	1	0	1	7
Electricity, gas, and water supply	m17	0	0	0	0	2
Construction	m18	0	1	1	2	4
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1	1	0	2	10
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	1
Hotels and restaurants	m22	7	15	0	22	23
Inland transport	m23	0	0	0	1	2
Water transport	m24	0	0	0	0	1
Air transport	m25	0	1	0	2	4
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0
Post and telecommunications	m27	35	10	0	10	22
Financial intermediation	m28	1	3	1	2	1
Real estate activities	m29	0	0	0	0	1
Renting of M&Eq and other business activities	m30	8	12	2	52	74
Public administration and defense; compulsory social security	m31	0	0	0	0	1
Education	m32	0	0	0	0	2
Health and social work	m33	0	0	0	0	2
Other community, social, and personal services	m34	0	0	0	1	3
Private households with employed persons	m35	–	–	–	–	–
Total intermediate consumption	r60	191	193	46	288	1,022
Taxes less subsidies on products	r99	(6)	(3)	(0)	(7)	(20)
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	198	739	483	277	1,513
International transport margins		–	–	–	–	–
Output at basic prices	r69	383	929	528	559	2,516

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Table A1.2 Imports Industry *continued*

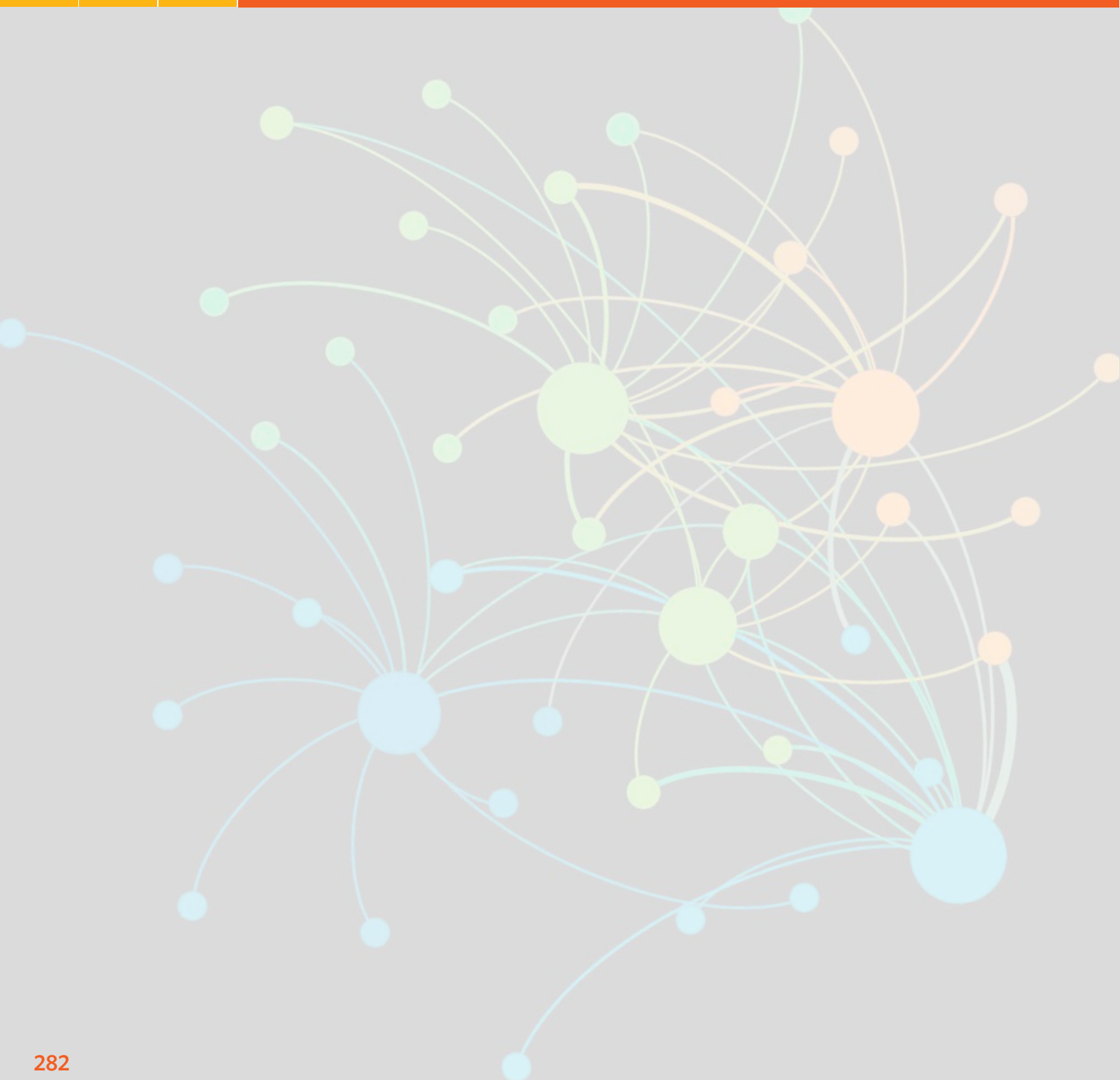
Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
10	5	0	–	60	–	–	3	(0)	–	165
1	1	0	–	10	–	–	136	(0)	–	337
22	10	1	–	91	–	–	7	0	–	430
4	1	0	–	49	–	–	1	(0)	–	142
0	0	0	–	0	–	–	0	0	–	0
2	0	0	–	5	–	–	15	(0)	–	42
9	1	1	–	21	–	–	70	(0)	–	192
0	0	0	–	1	–	–	0	(0)	–	12
0	7	0	–	3	–	–	0	(0)	–	15
1	1	0	–	2	–	–	4	0	–	39
1	1	0	–	4	–	–	7	0	–	67
4	2	0	–	40	–	–	177	(0)	–	398
1	1	0	–	14	–	–	67	(1)	–	142
3	2	0	–	41	–	–	140	(2)	–	314
3	2	0	–	31	–	–	137	(2)	–	303
2	1	0	–	18	–	–	82	(0)	–	173
0	0	0	–	5	–	0	0	(0)	–	12
2	1	0	–	5	–	0	130	0	–	165
0	0	0	–	3	–	0	3	0	–	13
2	1	0	–	11	–	0	18	(0)	–	72
0	0	0	–	3	–	0	3	0	–	13
6	4	1	–	94	–	0	1	0	–	340
1	0	0	–	1	–	0	0	0	–	14
0	0	0	–	0	–	–	0	(0)	–	7
0	0	0	–	2	–	0	0	(0)	–	21
0	0	0	–	0	–	0	0	0	–	4
7	4	1	–	30	–	0	3	(0)	–	204
0	0	0	–	34	–	–	0	0	–	70
0	0	0	–	86	–	0	1	0	–	95
39	16	1	–	15	–	0	12	0	–	481
0	0	0	–	0	–	–	0	(0)	–	2
1	0	0	–	4	–	0	0	0	–	9
0	0	0	–	1	–	0	0	0	–	5
0	0	0	–	13	–	0	0	0	–	21
–	–	–	–	–	–	–	–	–	–	–
229	153	25	–	2,647	–	3,211	4,049	658	6,012	25,356
(2)	(1)	(1)	–	(164)	–	–	33	0	–	(201)
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
438	188	130	–	–	–	–	–	–	–	12,329
–	–	–	–	–	–	–	–	–	–	–
666	340	155	–	2,483	–	3,211	4,082	658	6,012	37,484

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

# A2

## APPENDIX 2: INPUT-OUTPUT TABLES FOR 2010 AND 2017—CAMBODIA



**Table A2.1: Cambodia Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	600	0	336	5	–	8	10
Mining and quarrying	c2	4	1	1	1	–	0	1
Food, beverages, and tobacco	c3	14	0	105	2	–	0	1
Textiles and textile products	c4	5	0	2	1,057	–	0	0
Leather, leather products, and footwear	c5	–	–	–	–	–	–	–
Wood and products of wood and cork	c6	9	–	0	3	–	2	0
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	0	–	0	12
Coke, refined petroleum, and nuclear fuel	c8	0	0	0	0	–	0	0
Chemicals and chemical products	c9	42	0	0	0	–	–	–
Rubber and plastics	c10	4	–	18	19	–	0	5
Other nonmetallic minerals	c11	0	0	9	0	–	0	0
Basic metals and fabricated metal	c12	0	–	0	2	–	0	1
Machinery, nec	c13	0	0	0	0	–	0	0
Electrical and optical equipment	c14	0	–	0	0	–	0	0
Transport equipment	c15	–	–	0	0	–	0	0
Manufacturing, nec; recycling	c16	0	0	0	0	–	0	0
Electricity, gas, and water supply	c17	8	0	10	10	–	0	7
Construction	c18	1	3	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	–	–	–	–	–	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	110	2	61	185	–	2	5
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	2	0	1	3	–	0	0
Hotels and restaurants	c22	8	0	11	15	–	0	1
Inland transport	c23	35	1	27	46	–	1	2
Water transport	c24	–	–	–	–	–	–	–
Air transport	c25	–	–	–	–	–	–	–
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	–	–	–	–	–
Post and telecommunications	c27	0	1	8	6	–	1	1
Financial intermediation	c28	0	1	3	1	–	0	0
Real estate activities	c29	0	6	11	4	–	4	1
Renting of M&Eq and other business activities	c30	16	1	8	25	–	0	1
Public administration and defense; compulsory social security	c31	1	0	0	0	–	0	0
Education	c32	–	–	–	–	–	–	–
Health and social work	c33	–	–	–	–	–	–	–
Other community, social, and personal services	c34	21	0	4	1	–	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A2.1 Domestic Industry *continued*

Industry		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	–	12	5	0	0	–	–
Mining and quarrying	c2	–	0	0	4	7	0	0
Food, beverages, and tobacco	c3	0	0	0	0	1	0	0
Textiles and textile products	c4	0	0	17	0	0	0	0
Leather, leather products, and footwear	c5	–	–	–	–	–	–	–
Wood and products of wood and cork	c6	–	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	–	0	0	0	1	0	0
Coke, refined petroleum, and nuclear fuel	c8	0	0	0	0	0	0	0
Chemicals and chemical products	c9	–	3	8	0	0	–	–
Rubber and plastics	c10	–	1	26	1	3	0	0
Other nonmetallic minerals	c11	–	2	3	1	0	0	0
Basic metals and fabricated metal	c12	–	0	1	0	8	0	0
Machinery, nec	c13	–	0	0	0	0	0	0
Electrical and optical equipment	c14	–	0	0	0	0	0	0
Transport equipment	c15	–	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	–	0	0	0	1	0	0
Electricity, gas, and water supply	c17	–	1	4	0	1	0	0
Construction	c18	–	–	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	–	–	–	–	–	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	4	15	1	7	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	0	0	0	0	0	0
Hotels and restaurants	c22	0	1	3	0	1	0	0
Inland transport	c23	0	2	7	1	5	0	0
Water transport	c24	–	–	–	–	–	–	–
Air transport	c25	–	–	–	–	–	–	–
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	–	–	–	–	–
Post and telecommunications	c27	–	2	3	1	1	0	0
Financial intermediation	c28	–	2	0	0	0	0	0
Real estate activities	c29	–	0	3	0	0	–	–
Renting of M&Eq and other business activities	c30	0	0	2	0	0	0	0
Public administration and defense; compulsory social security	c31	–	0	0	0	0	–	–
Education	c32	–	0	–	–	–	–	–
Health and social work	c33	–	–	–	–	–	–	–
Other community, social, and personal services	c34	0	0	1	0	0	1	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A2.1 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
0	0	50	27	–	97	0	352	13	–	–	–
0	0	26	6	–	0	0	1	0	–	–	–
0	0	2	6	–	11	0	95	2	–	–	–
0	0	0	3	–	3	0	3	1	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
0	0	1	2	–	3	–	2	0	–	–	–
0	0	0	0	–	1	0	2	0	–	–	–
0	0	0	0	–	0	0	0	0	–	–	–
0	0	0	0	–	1	0	0	0	–	–	–
1	1	0	9	–	28	1	3	6	–	–	–
0	0	1	7	–	5	0	0	1	–	–	–
1	2	1	72	–	3	0	1	7	–	–	–
0	0	0	1	–	1	0	0	1	–	–	–
0	0	0	0	–	0	–	0	0	–	–	–
1	0	1	0	–	0	–	1	1	–	–	–
0	0	0	4	–	3	0	1	2	–	–	–
0	0	42	2	–	2	1	4	4	–	–	–
–	–	60	68	–	–	–	1	17	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
2	2	31	56	–	46	1	55	27	–	–	–
0	0	1	1	–	1	0	1	0	–	–	–
0	0	4	10	–	45	1	28	27	–	–	–
0	0	10	40	–	129	3	63	65	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
0	0	2	11	–	37	1	14	24	–	–	–
0	0	2	3	–	15	0	2	4	–	–	–
0	0	2	1	–	11	0	16	24	–	–	–
0	0	1	5	–	34	1	11	9	–	–	–
0	0	1	–	–	1	0	1	1	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
1	0	1	0	–	2	0	20	33	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–

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Table A2.1 Domestic Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	3	0	2	1	18
Mining and quarrying	c2	2	0	6	3	2
Food, beverages, and tobacco	c3	3	0	5	2	1
Textiles and textile products	c4	0	0	0	0	1
Leather, leather products, and footwear	c5	-	-	-	-	-
Wood and products of wood and cork	c6	0	-	-	-	0
Pulp, paper, paper products, printing, and publishing	c7	1	0	0	0	3
Coke, refined petroleum, and nuclear fuel	c8	0	0	-	0	0
Chemicals and chemical products	c9	0	0	1	0	0
Rubber and plastics	c10	0	-	-	1	2
Other nonmetallic minerals	c11	0	0	-	0	0
Basic metals and fabricated metal	c12	0	-	-	0	1
Machinery, nec	c13	0	0	0	0	0
Electrical and optical equipment	c14	0	0	-	0	0
Transport equipment	c15	1	-	-	0	0
Manufacturing, nec; recycling	c16	2	0	0	0	0
Electricity, gas, and water supply	c17	19	2	69	37	22
Construction	c18	-	-	-	0	-
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	-	-	-	-	-
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	8	1	10	8	9
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	0	0	0	0
Hotels and restaurants	c22	3	2	10	21	11
Inland transport	c23	33	6	41	62	34
Water transport	c24	-	-	-	-	-
Air transport	c25	-	-	-	-	-
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	-	-	-	-
Post and telecommunications	c27	69	6	29	18	10
Financial intermediation	c28	1	5	17	1	1
Real estate activities	c29	7	2	29	4	14
Renting of M&Eq and other business activities	c30	8	3	22	29	22
Public administration and defense; compulsory social security	c31	0	0	0	23	0
Education	c32	-	-	-	0	-
Health and social work	c33	-	-	-	-	-
Other community, social, and personal services	c34	15	1	3	7	2
Private households with employed persons	c35	-	-	-	-	-

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Table A2.1 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
6	52	30	–	3,089	4	–	50	52	221	<b>5,043</b>
0	1	1	–	31	0	–	–	–	0	<b>97</b>
0	1	2	–	698	2	0	4	11	39	<b>1,007</b>
0	0	0	–	157	0	0	1	47	1,950	<b>3,247</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	0	0	–	13	–	–	0	1	2	<b>39</b>
1	0	0	–	24	0	–	1	0	73	<b>120</b>
0	0	0	–	0	–	–	0	0	0	<b>0</b>
0	15	0	–	36	–	–	–	1	1	<b>108</b>
–	0	1	–	68	–	–	8	12	14	<b>233</b>
0	0	0	–	13	–	–	0	1	0	<b>44</b>
0	0	0	–	41	0	–	14	6	6	<b>167</b>
0	0	0	–	2	–	–	3	0	0	<b>8</b>
0	0	0	–	0	–	–	0	0	0	<b>0</b>
–	0	0	–	9	–	–	11	0	19	<b>43</b>
0	0	1	–	16	0	0	10	0	3	<b>45</b>
4	7	13	–	187	0	0	–	–	0	<b>459</b>
–	1	4	–	169	0	–	972	–	44	<b>1,339</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
2	15	7	–	661	–	0	90	0	401	<b>1,825</b>
0	0	0	–	11	–	–	3	–	7	<b>32</b>
2	12	4	–	175	0	0	1	–	880	<b>1,276</b>
7	3	12	–	245	2	0	11	0	194	<b>1,089</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
5	2	9	–	194	0	0	0	0	45	<b>501</b>
2	2	1	–	103	0	–	–	–	25	<b>193</b>
14	3	1	–	471	–	38	–	–	(0)	<b>666</b>
4	2	12	–	203	3	23	0	0	46	<b>491</b>
1	1	0	–	1	23	275	–	–	68	<b>397</b>
0	2	1	–	130	31	83	–	–	0	<b>248</b>
1	1	1	–	261	100	197	–	–	–	<b>562</b>
8	2	23	–	262	55	54	3	–	4	<b>524</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>

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Table A2.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	34	0	17	1	-	0	0
Mining and quarrying	m2	1	0	0	0	-	0	0
Food, beverages, and tobacco	m3	2	0	22	1	-	0	0
Textiles and textile products	m4	3	0	1	651	-	0	0
Leather, leather products, and footwear	m5	0	-	0	0	-	-	0
Wood and products of wood and cork	m6	3	-	0	1	-	1	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	1	0	-	0	15
Coke, refined petroleum, and nuclear fuel	m8	192	10	28	3	-	2	0
Chemicals and chemical products	m9	115	0	1	0	-	0	1
Rubber and plastics	m10	4	0	15	15	-	0	4
Other nonmetallic minerals	m11	0	1	32	0	-	0	0
Basic metals and fabricated metal	m12	0	0	0	3	-	0	1
Machinery, nec	m13	0	0	0	0	-	0	0
Electrical and optical equipment	m14	0	0	0	0	-	0	0
Transport equipment	m15	-	-	0	0	-	0	0
Manufacturing, nec; recycling	m16	2	0	0	0	-	0	0
Electricity, gas, and water supply	m17	0	0	0	0	-	0	0
Construction	m18	0	0	0	0	-	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	-	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	1	14	-	0	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	1	-	0	0
Hotels and restaurants	m22	3	0	3	4	-	0	0
Inland transport	m23	15	0	11	18	-	0	1
Water transport	m24	0	0	0	5	-	0	0
Air transport	m25	0	0	0	2	-	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	-	0	0
Post and telecommunications	m27	0	0	0	0	-	0	0
Financial intermediation	m28	0	0	0	0	-	0	0
Real estate activities	m29	0	0	0	0	-	0	0
Renting of M&Eq and other business activities	m30	2	0	1	1	-	0	1
Public administration and defense; compulsory social security	m31	0	0	0	0	-	0	0
Education	m32	0	0	0	0	-	0	0
Health and social work	m33	0	0	0	0	-	0	0
Other community, social, and personal services	m34	0	0	0	0	-	0	0
Private households with employed persons	m35	-	-	-	-	-	-	-
Total intermediate consumption	r60	1,255	30	749	2,107	-	23	73
Taxes less subsidies on products	r99	24	1	19	77	-	1	2
Cif/fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	3,763	66	238	1,064	-	15	45
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	5,043	97	1,007	3,247	-	39	120

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Table A2.1 Import Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
-	1	4	0	0	-	-	0	0	0	1	-	2
-	0	0	2	4	0	0	0	0	10	4	-	0
0	0	0	0	2	0	0	0	0	0	6	-	2
0	0	11	0	0	0	0	0	0	0	3	-	2
0	0	0	-	0	-	-	0	0	0	0	-	0
-	0	0	0	0	0	0	0	0	0	1	-	1
-	1	0	0	1	0	0	0	1	0	1	-	3
0	0	5	3	3	0	0	1	2	74	5	-	73
0	8	19	0	1	0	0	0	0	1	0	-	3
-	1	22	1	5	0	0	2	1	1	15	-	24
-	6	12	2	1	0	0	1	1	4	24	-	18
-	0	1	0	22	0	0	3	4	2	199	-	5
-	0	0	0	0	2	0	0	0	34	4	-	72
-	0	0	0	0	0	0	0	0	1	1	-	1
-	0	0	0	0	0	0	6	0	9	4	-	0
-	0	0	0	1	0	0	0	4	2	18	-	26
0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	4	4	-	0
0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	1	-	1
0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	1	0	0	0	0	0	0	1	3	-	15
0	0	2	0	2	0	0	0	0	4	15	-	49
0	0	0	0	0	0	0	0	0	0	0	-	2
0	0	0	0	0	0	0	0	0	0	0	-	1
0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	-	2
0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	-	1
-	0	0	0	0	-	-	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	-	0
0	0	0	0	0	0	0	0	0	0	0	-	0
-	-	-	-	-	-	-	-	-	-	-	-	-
0	51	176	21	82	5	0	21	22	388	645	-	782
0	2	7	1	3	0	0	1	1	11	22	-	27
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
0	56	50	23	82	2	0	21	23	59	672	-	1,016
-	-	-	-	-	-	-	-	-	-	-	-	-
0	108	233	44	167	8	0	43	45	459	1,339	-	1,825

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Table A2.1 Import Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	8	0	–	–	–
Mining and quarrying	m2	0	1	0	–	–	–
Food, beverages, and tobacco	m3	0	10	3	–	–	–
Textiles and textile products	m4	0	2	1	–	–	–
Leather, leather products, and footwear	m5	0	0	0	–	–	–
Wood and products of wood and cork	m6	0	0	0	–	–	–
Pulp, paper, paper products, printing, and publishing	m7	0	3	1	–	–	–
Coke, refined petroleum, and nuclear fuel	m8	2	7	100	–	–	–
Chemicals and chemical products	m9	0	0	1	–	–	–
Rubber and plastics	m10	1	3	10	–	–	–
Other nonmetallic minerals	m11	0	1	2	–	–	–
Basic metals and fabricated metal	m12	0	1	13	–	–	–
Machinery, nec	m13	1	0	32	–	–	–
Electrical and optical equipment	m14	0	0	0	–	–	–
Transport equipment	m15	0	5	13	–	–	–
Manufacturing, nec; recycling	m16	0	11	7	–	–	–
Electricity, gas, and water supply	m17	0	0	0	–	–	–
Construction	m18	0	0	1	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	–	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	1	1	–	–	–
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	–	–
Hotels and restaurants	m22	0	9	9	–	–	–
Inland transport	m23	1	23	23	–	–	–
Water transport	m24	0	0	4	–	–	–
Air transport	m25	0	0	2	–	–	–
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	–	–
Post and telecommunications	m27	0	0	0	–	–	–
Financial intermediation	m28	0	0	1	–	–	–
Real estate activities	m29	0	0	0	–	–	–
Renting of M&Eq and other business activities	m30	0	1	1	–	–	–
Public administration and defense; compulsory social security	m31	0	0	0	–	–	–
Education	m32	0	0	0	–	–	–
Health and social work	m33	0	0	0	–	–	–
Other community, social, and personal services	m34	0	0	0	–	–	–
Private households with employed persons	m35	–	–	–	–	–	–
Total intermediate consumption	r60	14	763	495	–	–	–
Taxes less subsidies on products	r99	1	16	19	–	–	–
Cif/fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	17	496	575	–	–	–
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	32	1,276	1,089	–	–	–

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Table A2.1 Import Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
1	0	1	0	0	0	7	0	–	110	–
0	0	0	0	0	0	0	0	–	16	–
1	0	0	0	0	0	0	0	–	207	–
0	0	0	0	1	0	0	0	–	164	0
0	0	0	0	0	0	0	0	–	0	–
0	0	0	–	0	0	0	0	–	4	–
1	0	0	2	4	1	0	1	–	42	–
3	2	0	8	15	1	2	3	–	135	–
0	0	2	0	0	0	35	0	–	93	–
0	0	0	1	2	0	0	1	–	83	–
0	0	–	1	0	0	0	0	–	52	–
0	0	0	0	1	0	1	1	–	107	–
0	0	0	1	0	0	0	7	–	18	–
1	0	0	0	0	0	1	0	–	5	0
6	0	–	2	0	0	0	0	–	91	–
29	0	0	0	3	2	1	9	–	143	0
0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	–	6	0
0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	–	4	0
0	0	0	0	0	0	0	0	–	0	0
1	1	2	4	3	1	3	1	–	38	0
3	1	10	17	12	2	1	3	–	80	0
0	0	0	0	0	0	0	0	–	1	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	0	0
1	0	0	0	0	0	0	0	–	2	0
0	1	2	0	0	0	0	0	–	17	–
0	0	0	0	0	0	0	0	–	0	0
3	1	10	2	2	1	2	1	–	3	1
0	0	0	1	0	0	0	0	–	0	2
0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	–	0	0
0	0	1	0	0	0	0	0	–	0	0
–	–	–	–	–	–	–	–	–	–	–
<b>225</b>	<b>33</b>	<b>272</b>	<b>258</b>	<b>199</b>	<b>68</b>	<b>176</b>	<b>152</b>	<b>–</b>	<b>8,693</b>	<b>224</b>
9	1	9	9	7	3	5	4	–	213	8
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
267	158	385	224	190	177	381	368	–	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>501</b>	<b>193</b>	<b>666</b>	<b>491</b>	<b>397</b>	<b>248</b>	<b>562</b>	<b>524</b>	<b>–</b>	<b>8,907</b>	<b>232</b>

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Table A2.1 Import Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	–	1	1	–	191
Mining and quarrying	m2	–	–	–	–	38
Food, beverages, and tobacco	m3	–	8	1	–	269
Textiles and textile products	m4	0	2	17	–	858
Leather, leather products, and footwear	m5	–	–	0	–	0
Wood and products of wood and cork	m6	–	0	0	–	10
Pulp, paper, paper products, printing, and publishing	m7	–	1	1	–	82
Coke, refined petroleum, and nuclear fuel	m8	–	0	8	–	688
Chemicals and chemical products	m9	0	0	1	–	284
Rubber and plastics	m10	–	16	6	–	231
Other nonmetallic minerals	m11	–	0	1	–	160
Basic metals and fabricated metal	m12	0	28	9	–	402
Machinery, nec	m13	0	231	0	–	402
Electrical and optical equipment	m14	1	11	0	–	24
Transport equipment	m15	0	100	0	–	237
Manufacturing, nec; recycling	m16	0	103	0	–	362
Electricity, gas, and water supply	m17	0	0	0	–	0
Construction	m18	0	64	0	–	80
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	3	1	–	30
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	2
Hotels and restaurants	m22	0	1	0	–	102
Inland transport	m23	0	3	0	–	299
Water transport	m24	0	0	(0)	–	13
Air transport	m25	0	0	0	–	8
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	1
Post and telecommunications	m27	0	0	0	–	5
Financial intermediation	m28	0	0	0	–	25
Real estate activities	m29	0	0	0	–	0
Renting of M&Eq and other business activities	m30	1	0	0	–	36
Public administration and defense; compulsory social security	m31	14	0	–	–	17
Education	m32	0	0	0	–	0
Health and social work	m33	0	0	0	–	0
Other community, social, and personal services	m34	0	0	0	–	3
Private households with employed persons	m35	–	–	–	–	–
Total intermediate consumption	r60	688	1,751	177	4,041	24,661
Taxes less subsidies on products	r99	26	69	3	–	600
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	10,434
International transport margins		–	–	–	–	–
Output at basic prices	r69	713	1,821	181	4,041	35,696

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

**Table A2.2: Cambodia Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	808	1	500	12	–	15	12
Mining and quarrying	c2	11	1	5	8	–	0	1
Food, beverages, and tobacco	c3	31	0	324	12	–	0	7
Textiles and textile products	c4	2	0	3	1,945	–	0	8
Leather, leather products, and footwear	c5	–	–	–	–	–	–	–
Wood and products of wood and cork	c6	12	–	0	6	–	4	0
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	12	–	0	20
Coke, refined petroleum, and nuclear fuel	c8	0	0	0	0	–	0	0
Chemicals and chemical products	c9	55	1	1	7	–	–	–
Rubber and plastics	c10	5	–	51	59	–	0	11
Other nonmetallic minerals	c11	0	1	14	0	–	0	0
Basic metals and fabricated metal	c12	0	–	3	8	–	0	1
Machinery, nec	c13	0	0	0	0	–	0	0
Electrical and optical equipment	c14	0	–	0	0	–	0	0
Transport equipment	c15	–	–	0	0	–	0	0
Manufacturing, nec; recycling	c16	0	0	1	2	–	0	0
Electricity, gas, and water supply	c17	16	0	25	42	–	0	8
Construction	c18	5	38	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	–	–	–	–	–	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	196	7	160	528	–	6	9
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	3	0	3	9	–	0	0
Hotels and restaurants	c22	14	2	58	88	–	0	2
Inland transport	c23	57	1	97	186	–	1	6
Water transport	c24	–	–	–	–	–	–	–
Air transport	c25	–	–	–	–	–	–	–
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	–	–	–	–	–
Post and telecommunications	c27	39	7	22	20	–	1	4
Financial intermediation	c28	0	3	16	3	–	0	0
Real estate activities	c29	6	16	33	35	–	9	2
Renting of M&Eq and other business activities	c30	29	4	24	52	–	0	4
Public administration and defense; compulsory social security	c31	2	1	2	1	–	0	0
Education	c32	–	–	–	–	–	–	–
Health and social work	c33	–	–	–	–	–	–	–
Other community, social, and personal services	c34	33	3	21	9	–	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A2.2 Domestic Industry *continued*

Industry		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	–	17	13	0	0	–	–
Mining and quarrying	c2	–	0	2	18	46	0	0
Food, beverages, and tobacco	c3	0	0	1	0	3	0	0
Textiles and textile products	c4	0	0	17	0	1	0	0
Leather, leather products, and footwear	c5	–	–	–	–	–	–	–
Wood and products of wood and cork	c6	–	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	–	0	0	0	1	0	0
Coke, refined petroleum, and nuclear fuel	c8	0	0	0	0	0	0	0
Chemicals and chemical products	c9	–	8	32	0	0	–	–
Rubber and plastics	c10	–	2	49	1	6	0	0
Other nonmetallic minerals	c11	–	3	7	1	0	0	0
Basic metals and fabricated metal	c12	–	0	1	0	17	0	0
Machinery, nec	c13	–	0	0	0	0	0	0
Electrical and optical equipment	c14	–	0	0	0	0	0	0
Transport equipment	c15	–	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	–	0	0	0	2	0	0
Electricity, gas, and water supply	c17	–	2	8	1	2	0	0
Construction	c18	–	–	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	–	–	–	–	–	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	9	39	2	13	1	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	0	1	0	0	0	0
Hotels and restaurants	c22	0	3	15	0	4	0	0
Inland transport	c23	0	3	18	2	11	0	0
Water transport	c24	–	–	–	–	–	–	–
Air transport	c25	–	–	–	–	–	–	–
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	–	–	–	–	–
Post and telecommunications	c27	–	4	6	0	1	0	–
Financial intermediation	c28	–	9	0	0	1	1	0
Real estate activities	c29	–	1	7	0	1	0	0
Renting of M&Eq and other business activities	c30	0	1	6	1	1	0	0
Public administration and defense; compulsory social security	c31	–	0	0	0	0	–	–
Education	c32	–	0	–	–	–	–	–
Health and social work	c33	–	0	–	–	–	–	–
Other community, social, and personal services	c34	0	0	1	2	1	1	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A2.2 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
0	1	43	56	–	128	0	498	13	–	–	–
0	0	90	21	–	1	0	6	1	–	–	–
0	1	3	18	–	50	0	206	4	–	–	–
0	0	0	5	–	3	0	5	1	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
0	0	1	2	–	3	–	2	0	–	–	–
0	1	0	2	–	2	0	4	1	–	–	–
0	0	0	0	–	0	0	0	0	–	–	–
0	0	0	0	–	3	0	0	0	–	–	–
3	1	1	29	–	59	2	9	11	–	–	–
1	0	2	23	–	4	0	0	1	–	–	–
4	4	2	193	–	5	0	1	12	–	–	–
0	0	1	3	–	2	0	0	1	–	–	–
0	0	0	0	–	0	–	0	0	–	–	–
1	0	1	1	–	0	–	0	2	–	–	–
0	1	1	14	–	5	0	4	4	–	–	–
0	0	53	14	–	5	1	12	6	–	–	–
–	–	262	718	–	–	–	9	111	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
4	5	39	155	–	91	1	120	53	–	–	–
0	0	1	3	–	1	0	2	1	–	–	–
1	0	8	51	–	166	2	133	99	–	–	–
1	1	17	150	–	312	7	189	138	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
1	0	3	22	–	63	3	30	40	–	–	–
0	0	4	12	–	43	0	11	15	–	–	–
1	1	3	6	–	92	0	56	49	–	–	–
1	0	3	29	–	83	2	48	26	–	–	–
0	0	3	0	–	2	0	4	2	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
1	0	3	16	–	8	0	40	40	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–

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Table A2.2 Domestic Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	3	0	2	1	11
Mining and quarrying	c2	5	1	19	9	7
Food, beverages, and tobacco	c3	6	0	6	3	3
Textiles and textile products	c4	0	0	0	11	2
Leather, leather products, and footwear	c5	–	–	–	–	–
Wood and products of wood and cork	c6	0	–	–	–	0
Pulp, paper, paper products, printing, and publishing	c7	1	0	0	0	3
Coke, refined petroleum, and nuclear fuel	c8	0	0	0	0	0
Chemicals and chemical products	c9	0	0	2	0	0
Rubber and plastics	c10	0	–	–	1	3
Other nonmetallic minerals	c11	0	0	–	1	0
Basic metals and fabricated metal	c12	0	–	–	0	1
Machinery, nec	c13	0	0	0	0	0
Electrical and optical equipment	c14	0	0	–	0	0
Transport equipment	c15	1	–	–	3	0
Manufacturing, nec; recycling	c16	5	0	0	0	1
Electricity, gas, and water supply	c17	26	3	98	45	36
Construction	c18	–	–	–	0	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	–	–	–	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	13	1	12	16	11
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	0	0	0	0
Hotels and restaurants	c22	16	10	30	65	22
Inland transport	c23	37	11	75	116	52
Water transport	c24	–	–	–	–	–
Air transport	c25	–	–	–	–	–
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	–	–	–
Post and telecommunications	c27	77	11	64	25	13
Financial intermediation	c28	3	20	73	6	2
Real estate activities	c29	16	14	139	82	46
Renting of M&Eq and other business activities	c30	92	12	85	111	38
Public administration and defense; compulsory social security	c31	0	0	4	9	0
Education	c32	–	–	–	1	–
Health and social work	c33	–	–	–	4	–
Other community, social, and personal services	c34	57	2	8	11	5
Private households with employed persons	c35	–	–	–	–	–

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Table A2.2 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
5	40	30	–	3,695	4	–	26	59	990	<b>6,983</b>
1	2	4	–	232	1	–	–	–	12	<b>505</b>
1	2	6	–	1,313	5	0	4	23	252	<b>2,283</b>
1	0	0	–	218	0	0	0	68	4,777	<b>7,068</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	0	0	–	17	–	–	0	0	26	<b>74</b>
1	0	0	–	56	0	–	1	0	132	<b>239</b>
0	0	0	–	0	–	–	0	0	0	<b>0</b>
0	31	1	–	63	–	–	–	2	7	<b>214</b>
–	0	2	–	130	–	–	6	30	53	<b>525</b>
0	0	0	–	36	–	–	0	1	1	<b>96</b>
0	1	1	–	98	1	–	12	13	28	<b>407</b>
0	0	0	–	5	–	–	4	0	1	<b>20</b>
0	0	0	–	0	–	–	0	0	0	<b>1</b>
–	0	0	–	11	–	–	11	0	57	<b>89</b>
0	0	2	–	32	0	0	10	1	7	<b>93</b>
7	11	20	–	540	1	1	–	–	1	<b>986</b>
–	3	17	–	630	0	–	3,341	–	37	<b>5,172</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
3	23	15	–	1,110	1	1	92	0	988	<b>3,725</b>
0	0	0	–	19	–	–	3	–	17	<b>66</b>
7	41	10	–	523	0	0	1	–	1,260	<b>2,634</b>
13	8	19	–	401	2	0	12	0	395	<b>2,338</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
8	7	11	–	357	0	0	–	0	157	<b>995</b>
4	3	3	–	266	0	–	–	–	23	<b>520</b>
26	11	4	–	735	69	74	–	–	36	<b>1,570</b>
13	10	48	–	356	2	1	0	0	52	<b>1,133</b>
3	6	1	–	82	–	439	–	–	78	<b>641</b>
0	2	1	–	264	31	133	–	–	10	<b>444</b>
3	3	2	–	569	117	272	–	–	7	<b>976</b>
10	3	53	–	492	93	95	4	–	13	<b>1,024</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>

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Table A2.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Industry								
Imports								
Agriculture, hunting, forestry, and fishing	m1	74	2	55	4	–	1	0
Mining and quarrying	m2	0	0	0	0	–	0	0
Food, beverages, and tobacco	m3	6	0	68	4	–	0	5
Textiles and textile products	m4	2	0	3	1,445	–	0	9
Leather, leather products, and footwear	m5	0	–	0	0	–	0	–
Wood and products of wood and cork	m6	2	–	0	1	–	1	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	7	–	0	17
Coke, refined petroleum, and nuclear fuel	m8	330	42	66	9	–	4	0
Chemicals and chemical products	m9	112	3	1	9	–	0	0
Rubber and plastics	m10	4	0	40	32	–	0	8
Other nonmetallic minerals	m11	0	3	48	0	–	0	0
Basic metals and fabricated metal	m12	0	0	4	7	–	0	1
Machinery, nec	m13	0	0	0	0	–	0	0
Electrical and optical equipment	m14	0	0	0	0	–	0	0
Transport equipment	m15	–	–	0	0	–	0	0
Manufacturing, nec; recycling	m16	4	0	1	1	–	0	0
Electricity, gas, and water supply	m17	0	0	0	0	–	0	0
Construction	m18	0	1	0	0	–	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	–	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	1	10	–	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	1	–	0	0
Hotels and restaurants	m22	4	1	42	21	–	0	1
Inland transport	m23	14	0	26	23	–	0	1
Water transport	m24	0	0	0	4	–	0	0
Air transport	m25	0	0	0	2	–	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	–	0	0
Post and telecommunications	m27	1	1	4	2	–	0	3
Financial intermediation	m28	0	0	1	0	–	0	0
Real estate activities	m29	1	0	1	0	–	0	0
Renting of M&Eq and other business activities	m30	1	0	1	2	–	0	2
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	0
Education	m32	0	0	0	0	–	0	0
Health and social work	m33	0	0	0	0	–	0	0
Other community, social, and personal services	m34	0	0	1	0	–	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	1,882	142	1,727	4,627	–	44	147
Taxes less subsidies on products	r99	46	2	47	173	–	2	4
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	5,055	360	508	2,267	–	29	89
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	6,983	505	2,283	7,068	–	74	239

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Table A2.2 Imports Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
–	7	24	1	0	–	–	0	0	1	3	–	7
–	0	0	1	1	0	0	0	0	2	0	–	0
0	0	1	0	5	0	0	0	1	2	22	–	7
0	0	17	0	1	0	0	0	0	0	7	–	4
0	0	0	–	0	0	0	0	0	0	0	–	–
–	0	0	0	0	0	0	0	0	0	0	–	0
–	0	0	0	3	0	0	0	1	1	5	–	2
0	1	9	5	8	0	0	3	4	155	16	–	120
–	14	53	1	1	0	0	0	0	0	1	–	5
–	2	34	2	11	0	0	3	2	3	44	–	45
–	11	24	5	1	0	0	2	1	10	86	–	13
–	0	2	0	49	0	0	10	7	6	493	–	7
–	0	0	0	1	8	0	0	0	61	32	–	115
–	0	0	0	0	0	0	0	0	0	1	–	1
–	0	0	0	0	0	0	4	0	19	6	–	0
–	0	0	0	4	0	0	0	8	10	86	–	41
0	0	0	0	0	0	0	0	0	0	0	–	0
0	0	0	0	0	0	0	0	0	11	16	–	0
0	0	0	0	0	0	0	0	0	0	0	–	0
0	0	0	0	0	0	0	0	0	0	1	–	3
0	0	0	0	0	0	0	0	0	0	0	–	0
0	2	9	0	3	0	0	0	0	2	26	–	84
0	1	4	1	3	0	0	0	0	7	39	–	77
0	0	0	0	0	0	0	0	0	0	0	–	1
0	0	0	0	0	0	0	0	0	0	0	–	0
0	0	0	0	0	0	0	0	0	0	0	–	0
0	1	1	0	0	0	0	0	0	1	4	–	8
0	0	0	0	0	0	0	0	0	0	1	–	2
0	0	0	0	0	0	0	0	0	0	1	–	1
0	0	0	0	0	0	0	0	0	0	1	–	1
–	0	0	0	0	–	–	0	0	1	0	–	0
0	0	0	0	0	0	0	0	0	0	0	–	0
0	0	0	0	0	0	0	0	0	0	0	–	0
0	0	0	0	0	0	0	0	0	0	1	–	0
–	–	–	–	–	–	–	–	–	–	–	–	–
<b>0</b>	<b>104</b>	<b>401</b>	<b>45</b>	<b>204</b>	<b>14</b>	<b>0</b>	<b>43</b>	<b>44</b>	<b>839</b>	<b>2,434</b>	<b>–</b>	<b>1,677</b>
0	4	15	2	6	0	0	2	2	26	50	–	62
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
0	106	110	49	196	5	0	44	47	122	2,689	–	1,985
–	–	–	–	–	–	–	–	–	–	–	–	–
<b>0</b>	<b>214</b>	<b>525</b>	<b>96</b>	<b>407</b>	<b>20</b>	<b>1</b>	<b>89</b>	<b>93</b>	<b>986</b>	<b>5,172</b>	<b>–</b>	<b>3,725</b>

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Table A2.2 Imports Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	15	0	–	–	–
Mining and quarrying	m2	0	0	0	–	–	–
Food, beverages, and tobacco	m3	0	19	7	–	–	–
Textiles and textile products	m4	0	5	2	–	–	–
Leather, leather products, and footwear	m5	0	0	0	–	–	–
Wood and products of wood and cork	m6	0	0	0	–	–	–
Pulp, paper, paper products, printing, and publishing	m7	0	3	2	–	–	–
Coke, refined petroleum, and nuclear fuel	m8	3	12	220	–	–	–
Chemicals and chemical products	m9	0	0	0	–	–	–
Rubber and plastics	m10	1	6	15	–	–	–
Other nonmetallic minerals	m11	0	1	4	–	–	–
Basic metals and fabricated metal	m12	0	2	19	–	–	–
Machinery, nec	m13	1	0	53	–	–	–
Electrical and optical equipment	m14	0	0	0	–	–	–
Transport equipment	m15	0	0	16	–	–	–
Manufacturing, nec; recycling	m16	0	38	20	–	–	–
Electricity, gas, and water supply	m17	0	0	0	–	–	–
Construction	m18	0	0	3	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	–	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	1	2	–	–	–
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	–	–
Hotels and restaurants	m22	1	54	65	–	–	–
Inland transport	m23	2	40	34	–	–	–
Water transport	m24	0	0	1	–	–	–
Air transport	m25	0	0	1	–	–	–
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	–	–
Post and telecommunications	m27	0	4	5	–	–	–
Financial intermediation	m28	0	0	1	–	–	–
Real estate activities	m29	0	1	1	–	–	–
Renting of M&Eq and other business activities	m30	0	1	1	–	–	–
Public administration and defense; compulsory social security	m31	0	0	0	–	–	–
Education	m32	0	0	0	–	–	–
Health and social work	m33	0	0	0	–	–	–
Other community, social, and personal services	m34	0	1	1	–	–	–
Private households with employed persons	m35	–	–	–	–	–	–
Total intermediate consumption	r60	30	1,597	1,104	–	–	–
Taxes less subsidies on products	r99	1	38	42	–	–	–
Cif/fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	34	999	1,192	–	–	–
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	66	2,634	2,338	–	–	–

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Table A2.2 Imports Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
1	0	2	0	0	0	24	2	–	193	–
0	0	0	0	0	0	0	0	–	2	–
1	0	0	0	1	0	0	1	–	398	–
0	0	0	9	3	1	0	0	–	300	0
0	0	0	–	0	0	0	0	–	0	–
0	0	0	–	0	0	0	0	–	3	–
1	0	0	1	4	2	0	0	–	57	–
4	1	3	9	26	3	4	12	–	552	–
0	0	2	1	0	0	53	1	–	125	–
0	0	0	1	4	0	1	2	–	150	–
0	0	–	2	0	0	0	0	–	134	–
0	0	0	0	1	0	2	1	–	196	–
0	0	0	1	0	0	0	25	–	26	–
1	0	0	0	0	0	0	0	–	4	0
6	0	–	18	0	0	0	0	–	84	–
66	1	0	0	8	8	1	32	–	312	0
0	0	0	0	0	0	0	0	–	1	0
0	0	0	0	0	0	0	0	–	7	0
0	0	0	0	0	0	0	0	–	0	0
0	0	1	1	1	0	0	0	–	4	0
0	0	0	0	0	0	0	0	–	0	0
4	5	7	26	11	7	28	5	–	408	0
7	2	15	19	16	4	2	5	–	85	0
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	0	0
10	1	11	3	3	2	1	2	–	42	0
0	1	3	0	0	0	0	0	–	11	–
2	1	9	1	1	1	1	1	–	0	0
2	1	9	2	2	2	1	1	–	6	0
0	0	0	0	0	0	0	0	–	3	–
0	0	0	0	0	0	0	0	–	3	1
0	0	0	0	0	1	0	0	–	52	18
1	0	1	0	0	1	0	1	–	14	5
–	–	–	–	–	–	–	–	–	–	–
<b>467</b>	<b>98</b>	<b>679</b>	<b>613</b>	<b>341</b>	<b>139</b>	<b>330</b>	<b>341</b>	<b>–</b>	<b>15,426</b>	<b>351</b>
19	3	18	20	16	5	12	12	–	480	20
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
508	419	873	500	285	300	635	671	–	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>995</b>	<b>520</b>	<b>1,570</b>	<b>1,133</b>	<b>641</b>	<b>444</b>	<b>976</b>	<b>1,024</b>	<b>–</b>	<b>15,906</b>	<b>370</b>

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Table A2.2 Imports Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	-	2	13	-	431
Mining and quarrying	m2	-	0	0	-	7
Food, beverages, and tobacco	m3	-	16	6	-	571
Textiles and textile products	m4	0	2	36	-	1,848
Leather, leather products, and footwear	m5	-	0	0	-	0
Wood and products of wood and cork	m6	-	0	0	-	8
Pulp, paper, paper products, printing, and publishing	m7	-	4	0	-	109
Coke, refined petroleum, and nuclear fuel	m8	-	0	36	-	1,657
Chemicals and chemical products	m9	0	0	4	-	388
Rubber and plastics	m10	-	25	27	-	463
Other nonmetallic minerals	m11	-	0	6	-	353
Basic metals and fabricated metal	m12	0	41	49	-	900
Machinery, nec	m13	0	499	0	-	824
Electrical and optical equipment	m14	1	9	0	-	20
Transport equipment	m15	0	156	1	-	311
Manufacturing, nec; recycling	m16	0	264	2	-	910
Electricity, gas, and water supply	m17	0	0	0	-	1
Construction	m18	0	142	0	-	180
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	-	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	4	0	-	33
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	-	2
Hotels and restaurants	m22	0	1	0	-	818
Inland transport	m23	0	5	9	-	442
Water transport	m24	0	0	2	-	10
Air transport	m25	0	0	0	-	7
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	-	1
Post and telecommunications	m27	0	0	0	-	112
Financial intermediation	m28	0	0	0	-	21
Real estate activities	m29	0	0	0	-	24
Renting of M&Eq and other business activities	m30	0	0	0	-	37
Public administration and defense; compulsory social security	m31	34	0	-	-	40
Education	m32	2	0	0	-	7
Health and social work	m33	18	0	0	-	89
Other community, social, and personal services	m34	4	0	0	-	33
Private households with employed persons	m35	-	-	-	-	-
Total intermediate consumption	r60	1,075	4,699	388	9,419	51,474
Taxes less subsidies on products	r99	61	157	8	-	1,352
Cif/fob adjustments on exports	r61	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-
Value added at basic prices	r64	-	-	-	-	20,079
International transport margins		-	-	-	-	-
Output at basic prices	r69	1,136	4,856	396	9,419	72,905

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.



# APPENDIX 3: INPUT-OUTPUT TABLES FOR 2010 AND 2017—FIJI

# A3



**Table A3.1: Fiji Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	3	0	156	0	–	16	0
Mining and quarrying	c2	3	4	0	0	–	0	0
Food, beverages, and tobacco	c3	8	0	19	0	0	0	0
Textiles and textile products	c4	1	0	1	15	0	0	1
Leather, leather products, and footwear	c5	0	0	0	–	3	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	4	0
Pulp, paper, paper products, printing, and publishing	c7	1	0	1	2	0	0	3
Coke, refined petroleum, and nuclear fuel	c8	0	0	0	0	–	0	0
Chemicals and chemical products	c9	4	7	1	0	0	1	3
Rubber and plastics	c10	0	0	4	0	0	0	1
Other nonmetallic minerals	c11	0	0	19	0	–	0	1
Basic metals and fabricated metal	c12	4	0	0	0	0	0	0
Machinery, nec	c13	0	0	0	0	0	0	0
Electrical and optical equipment	c14	–	–	–	–	–	–	–
Transport equipment	c15	–	–	–	–	–	–	–
Manufacturing, nec; recycling	c16	2	0	1	2	0	0	0
Electricity, gas, and water supply	c17	15	3	13	1	–	1	1
Construction	c18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	1	0	–	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	11	3	48	9	2	7	3
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1	0	1	0	–	0	–
Hotels and restaurants	c22	1	0	1	0	0	0	0
Inland transport	c23	0	0	3	0	–	0	0
Water transport	c24	0	0	2	0	–	0	0
Air transport	c25	3	0	3	0	–	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	3	1	23	1	–	0	0
Post and telecommunications	c27	19	0	2	0	–	0	1
Financial intermediation	c28	10	1	16	4	–	2	2
Real estate activities	c29	24	0	1	0	–	0	0
Renting of M&Eq and other business activities	c30	4	0	4	0	0	0	1
Public administration and defense; compulsory social security	c31	0	–	–	–	–	–	–
Education	c32	0	0	0	0	0	0	0
Health and social work	c33	0	0	0	0	0	0	0
Other community, social, and personal services	c34	0	0	0	0	0	0	0
Private households with employed persons	c35	1	0	0	1	0	0	0

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Table A3.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
-	0	0	0	0	0	-	0	0	0	1	0	0
-	0	0	10	0	0	-	0	0	0	14	0	0
-	0	0	0	0	0	-	0	0	0	1	0	0
-	2	0	0	0	0	-	0	3	1	1	0	0
-	0	0	0	0	0	-	0	1	0	0	-	-
-	0	0	0	0	0	-	0	14	0	5	0	0
-	0	0	0	0	0	-	0	0	1	0	0	2
-	-	0	0	0	0	-	0	0	0	0	0	0
-	3	0	1	0	0	-	0	0	1	1	0	7
-	0	1	0	0	0	-	0	0	0	2	0	4
-	0	1	2	-	0	-	0	0	0	4	0	3
-	0	0	0	24	1	-	0	2	0	13	0	0
-	0	0	0	0	0	-	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	0	-	-	-	0	0
-	0	0	0	0	0	-	0	1	1	0	0	1
-	8	0	1	1	0	-	0	1	8	0	1	6
-	0	0	0	0	0	-	0	0	0	3	0	0
-	0	0	0	0	0	-	0	0	0	0	0	0
-	2	1	1	5	0	-	1	7	8	4	0	2
-	-	-	-	0	0	-	0	1	0	2	0	0
-	0	0	0	0	0	-	0	0	0	0	0	1
-	2	0	0	0	0	-	0	0	0	0	0	1
-	0	0	0	0	0	-	0	0	0	0	0	1
-	2	0	0	1	0	-	0	0	1	1	0	23
-	1	0	0	0	0	-	0	0	0	0	0	16
-	1	0	0	0	0	-	0	0	1	3	1	21
-	2	0	1	3	0	-	0	2	6	12	1	16
-	1	-	0	-	0	-	0	0	1	1	0	5
-	3	0	1	0	0	-	0	0	1	11	0	9
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	0	0	0	0	-	0	0	0	0	0	0
-	0	0	0	0	0	-	0	0	0	0	0	0
-	0	0	0	0	0	-	0	0	0	0	0	0
-	0	0	0	0	0	-	0	0	1	0	0	0

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Table A3.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	0	20	0	0	1	0
Mining and quarrying	c2	0	0	0	0	1	0
Food, beverages, and tobacco	c3	1	41	0	0	3	1
Textiles and textile products	c4	0	2	0	1	2	2
Leather, leather products, and footwear	c5	–	–	0	0	0	0
Wood and products of wood and cork	c6	0	1	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	–	1	2	1	3	1
Coke, refined petroleum, and nuclear fuel	c8	0	0	0	0	0	0
Chemicals and chemical products	c9	–	2	0	0	0	0
Rubber and plastics	c10	–	0	1	0	0	0
Other nonmetallic minerals	c11	–	0	1	0	0	0
Basic metals and fabricated metal	c12	0	0	0	0	0	0
Machinery, nec	c13	0	0	0	0	1	0
Electrical and optical equipment	c14	–	–	–	–	–	–
Transport equipment	c15	0	–	0	0	–	0
Manufacturing, nec; recycling	c16	1	1	2	1	5	1
Electricity, gas, and water supply	c17	16	17	1	0	2	4
Construction	c18	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1	13	3	4	25	6
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	4	2	–	–	–
Hotels and restaurants	c22	1	1	0	0	1	1
Inland transport	c23	1	0	0	0	0	2
Water transport	c24	–	0	0	0	0	0
Air transport	c25	–	4	1	0	0	6
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	1	0	1	1	4
Post and telecommunications	c27	18	10	1	1	8	12
Financial intermediation	c28	18	23	2	1	9	5
Real estate activities	c29	1	6	1	0	10	8
Renting of M&Eq and other business activities	c30	–	7	3	2	23	7
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–
Education	c32	0	0	0	0	0	0
Health and social work	c33	–	1	0	0	0	0
Other community, social, and personal services	c34	–	4	0	0	0	0
Private households with employed persons	c35	0	7	1	1	2	1

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Table A3.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
0	0	0	0	1	1	1	0	1	239	-
0	0	0	0	0	0	0	0	0	1	-
0	1	0	0	2	1	1	0	1	308	-
1	1	1	1	3	0	1	1	0	48	-
0	-	-	0	1	-	0	-	-	7	-
0	0	1	0	0	0	0	0	0	19	-
1	8	3	1	4	4	0	0	0	19	-
0	0	0	0	0	0	0	0	0	0	-
1	0	1	0	0	0	2	0	1	9	-
0	0	0	0	0	0	0	0	0	1	-
0	0	0	0	0	0	0	0	0	1	-
0	0	0	3	0	0	0	0	0	23	-
0	0	1	0	0	0	0	0	0	4	-
-	-	-	-	-	-	-	-	-	-	-
0	-	-	0	-	-	-	-	-	2	-
0	0	5	1	0	0	0	0	0	26	-
4	7	2	3	3	3	2	1	1	16	1
0	0	0	0	0	0	0	0	0	62	-
0	0	0	0	0	0	0	0	0	5	-
4	5	2	5	6	2	2	1	1	101	-
1	2	0	-	0	0	-	-	0	145	-
1	1	0	2	0	0	0	1	1	36	2
0	7	0	5	0	0	0	2	6	45	-
0	0	0	0	0	0	0	0	0	25	-
2	7	0	4	6	2	0	1	3	25	-
2	1	0	1	0	0	0	1	0	18	-
26	22	1	6	5	2	0	1	2	58	2
8	10	35	8	8	7	1	1	2	195	-
2	10	1	6	5	1	0	2	7	124	-
6	11	2	5	0	3	0	1	2	42	-
-	-	-	-	-	-	-	-	-	1	-
0	0	0	0	0	0	0	0	0	27	28
0	0	0	0	0	0	0	0	0	7	2
0	0	0	0	0	0	0	0	0	6	8
0	0	3	1	0	0	0	1	0	31	15

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Table A3.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Domestic</b>						
Agriculture, hunting, forestry, and fishing	c1	0	0	4	34	<b>481</b>
Mining and quarrying	c2	1	0	(13)	52	<b>75</b>
Food, beverages, and tobacco	c3	1	1	34	153	<b>578</b>
Textiles and textile products	c4	1	0	8	21	<b>119</b>
Leather, leather products, and footwear	c5	–	–	0	0	<b>13</b>
Wood and products of wood and cork	c6	0	0	(3)	18	<b>59</b>
Pulp, paper, paper products, printing, and publishing	c7	0	4	(1)	5	<b>70</b>
Coke, refined petroleum, and nuclear fuel	c8	–	–	2	0	<b>2</b>
Chemicals and chemical products	c9	2	0	(1)	8	<b>58</b>
Rubber and plastics	c10	0	0	0	1	<b>18</b>
Other nonmetallic minerals	c11	–	–	0	2	<b>35</b>
Basic metals and fabricated metal	c12	0	0	1	13	<b>84</b>
Machinery, nec	c13	0	1	0	1	<b>11</b>
Electrical and optical equipment	c14	–	–	0	–	<b>0</b>
Transport equipment	c15	–	2	1	0	<b>5</b>
Manufacturing, nec; recycling	c16	0	8	1	8	<b>71</b>
Electricity, gas, and water supply	c17	2	0	0	0	<b>146</b>
Construction	c18	0	128	0	1	<b>194</b>
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	1	–	1	<b>10</b>
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1	33	–	57	<b>388</b>
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	6	–	18	<b>184</b>
Hotels and restaurants	c22	1	1	0	345	<b>398</b>
Inland transport	c23	–	–	(0)	17	<b>94</b>
Water transport	c24	3	–	(0)	11	<b>44</b>
Air transport	c25	–	–	–	217	<b>315</b>
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	(0)	101	<b>176</b>
Post and telecommunications	c27	3	2	(0)	16	<b>248</b>
Financial intermediation	c28	13	0	0	9	<b>435</b>
Real estate activities	c29	–	0	–	0	<b>216</b>
Renting of M&Eq and other business activities	c30	14	1	(0)	30	<b>194</b>
Public administration and defense; compulsory social security	c31	234	–	–	0	<b>234</b>
Education	c32	105	0	–	6	<b>168</b>
Health and social work	c33	54	0	–	6	<b>69</b>
Other community, social, and personal services	c34	8	0	–	1	<b>29</b>
Private households with employed persons	c35	16	4	0	5	<b>92</b>

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Table A3.1 Import Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	1	0	24	0	0	1	0
Mining and quarrying	m2	0	0	0	0	–	0	0
Food, beverages, and tobacco	m3	4	0	9	0	0	0	0
Textiles and textile products	m4	0	0	0	4	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	2	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	1	1	0	0	3
Coke, refined petroleum, and nuclear fuel	m8	37	4	7	2	0	2	0
Chemicals and chemical products	m9	7	14	2	0	0	1	5
Rubber and plastics	m10	0	0	9	0	0	0	3
Other nonmetallic minerals	m11	0	0	17	0	0	0	2
Basic metals and fabricated metal	m12	3	0	0	0	0	0	0
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0	0
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	1	0	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	3	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	0	0	1	0	0	1	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	3	0	0	0	0	0	0
Financial intermediation	m28	1	0	1	0	0	1	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	1	0	1	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	0
Total intermediate consumption	r60	179	40	395	49	8	39	33
Taxes less subsidies on products	r99	11	2	11	4	1	1	2
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	290	33	171	65	4	19	35
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	481	75	578	119	13	59	70

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Table A3.1 Import Industry *continued*

Industry		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0	0	-
Mining and quarrying	m2	-	0	0	1	0	0	-
Food, beverages, and tobacco	m3	0	0	0	0	0	0	-
Textiles and textile products	m4	0	1	0	0	0	0	-
Leather, leather products, and footwear	m5	-	0	0	0	0	0	-
Wood and products of wood and cork	m6	0	0	0	0	0	0	-
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0	0	-
Coke, refined petroleum, and nuclear fuel	m8	0	0	1	0	1	0	-
Chemicals and chemical products	m9	1	6	0	2	0	0	-
Rubber and plastics	m10	0	0	3	0	0	0	-
Other nonmetallic minerals	m11	0	0	3	1	0	0	-
Basic metals and fabricated metal	m12	0	0	0	0	20	2	-
Machinery, nec	m13	0	0	0	0	0	0	-
Electrical and optical equipment	m14	0	0	0	0	0	0	-
Transport equipment	m15	0	0	0	0	0	0	-
Manufacturing, nec; recycling	m16	0	0	0	0	0	0	-
Electricity, gas, and water supply	m17	0	0	0	0	0	0	-
Construction	m18	0	0	0	0	0	0	-
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	-
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	-
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	-
Hotels and restaurants	m22	0	0	0	0	0	0	-
Inland transport	m23	0	0	0	0	0	0	-
Water transport	m24	0	0	0	0	0	0	-
Air transport	m25	0	0	0	0	0	0	-
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	-
Post and telecommunications	m27	0	0	0	0	0	0	-
Financial intermediation	m28	0	0	0	0	0	0	-
Real estate activities	m29	0	0	0	0	0	0	-
Renting of M&Eq and other business activities	m30	0	1	0	0	0	0	-
Public administration and defense; compulsory social security	m31	-	0	0	0	0	0	-
Education	m32	0	0	0	0	0	0	-
Health and social work	m33	0	0	0	0	0	0	-
Other community, social, and personal services	m34	0	0	0	0	0	0	-
Private households with employed persons	m35	0	0	0	0	0	0	-
Total intermediate consumption	r60	1	38	12	23	59	5	-
Taxes less subsidies on products	r99	0	2	1	1	3	0	0
Cif/fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	-	17	4	11	22	6	-
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	2	58	18	35	84	11	0

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Table A3.1 Import Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	0	0	0	0	0	0	3	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	21	0	0	1	0
0	1	0	0	0	0	0	1	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	2	0	1	1	0	2	1
0	0	53	4	0	4	5	11	16	6	125	13
0	0	1	1	0	4	0	3	0	0	0	0
0	1	0	5	0	7	0	0	2	0	0	0
0	0	0	5	0	6	0	0	2	0	0	0
0	1	0	9	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	2	5	0	4
0	0	1	0	0	0	0	0	1	0	2	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	11	2	0	1	0	4	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	3	0	5
0	0	0	0	0	2	0	1	0	0	2	1
0	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	2	6	2	0	0	2	2
0	0	0	1	0	1	0	2	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2	0	1	0	1	1	0	4	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0
<b>3</b>	<b>40</b>	<b>90</b>	<b>109</b>	<b>4</b>	<b>160</b>	<b>73</b>	<b>215</b>	<b>51</b>	<b>30</b>	<b>243</b>	<b>93</b>
0	2	8	4	0	8	4	15	4	3	21	7
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
3	29	48	81	6	221	108	168	39	11	51	77
-	-	-	-	-	-	-	-	-	-	-	-
<b>5</b>	<b>71</b>	<b>146</b>	<b>194</b>	<b>10</b>	<b>388</b>	<b>184</b>	<b>398</b>	<b>94</b>	<b>44</b>	<b>315</b>	<b>176</b>

*continued on next page*

Table A3.1 Import Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0
Mining and quarrying	m2	0	0	0	0	0
Food, beverages, and tobacco	m3	0	0	0	0	1
Textiles and textile products	m4	1	0	0	0	1
Leather, leather products, and footwear	m5	0	0	0	0	1
Wood and products of wood and cork	m6	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	2	7	1	1	5
Coke, refined petroleum, and nuclear fuel	m8	3	13	0	11	10
Chemicals and chemical products	m9	1	0	1	1	0
Rubber and plastics	m10	0	0	0	1	0
Other nonmetallic minerals	m11	0	0	0	1	0
Basic metals and fabricated metal	m12	0	0	0	2	0
Machinery, nec	m13	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0
Transport equipment	m15	3	0	0	4	0
Manufacturing, nec; recycling	m16	0	0	1	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	2	1	0	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	0	0	0	0	0
Water transport	m24	1	0	0	0	3
Air transport	m25	0	1	0	0	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	1
Post and telecommunications	m27	6	3	0	1	1
Financial intermediation	m28	1	5	0	0	0
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	1	1	1	1	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	0
Total intermediate consumption	r60	84	128	67	78	73
Taxes less subsidies on products	r99	6	7	2	5	5
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	158	299	148	112	157
International transport margins		–	–	–	–	–
Output at basic prices	r69	248	435	216	194	234

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Table A3.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
0	0	0	0	28	0	0	0	1	–	59
0	0	0	0	0	–	0	0	(1)	–	2
0	1	0	0	98	0	0	0	18	–	155
0	0	0	0	12	0	0	0	2	–	26
0	0	0	–	4	–	0	0	0	–	8
0	0	0	0	1	0	0	0	0	–	3
6	0	0	0	5	0	0	6	(1)	–	46
2	0	1	1	64	0	0	0	4	–	403
1	5	1	2	5	0	1	0	2	–	67
0	0	0	–	3	0	0	0	1	–	37
0	0	0	–	2	0	0	0	0	–	42
0	0	0	0	16	0	0	0	1	–	57
0	0	0	0	10	0	1	6	0	–	20
0	0	0	–	4	0	0	4	0	–	10
0	0	0	0	37	0	0	243	16	–	317
0	0	0	0	5	0	0	10	0	–	23
0	0	0	0	2	0	0	0	0	–	3
0	0	0	0	0	0	0	1	0	–	2
0	0	0	0	0	0	0	0	0	–	0
0	0	0	0	21	0	0	1	0	–	55
0	0	0	0	3	0	0	0	0	–	4
0	0	0	0	4	0	0	0	0	–	5
0	0	0	0	3	0	0	0	0	–	4
0	0	0	0	2	–	0	0	(0)	–	19
0	0	0	0	36	–	0	0	0	–	46
0	0	0	0	4	0	0	0	0	–	8
1	0	0	0	10	0	0	1	(0)	–	42
1	0	0	0	13	0	0	1	0	–	30
0	0	0	0	0	0	0	0	0	–	1
1	0	0	0	6	0	1	1	0	–	26
0	0	0	0	0	0	0	0	0	–	0
0	0	0	0	2	1	1	0	0	–	4
0	0	0	–	1	0	0	0	0	–	1
0	0	0	0	1	0	0	0	0	–	1
0	0	0	0	1	0	0	3	0	–	7
<b>43</b>	<b>20</b>	<b>17</b>	<b>34</b>	<b>2,079</b>	<b>59</b>	<b>464</b>	<b>470</b>	<b>78</b>	<b>1,160</b>	<b>6,845</b>
3	1	1	2	134	–	6	29	11	–	326
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
122	48	11	57	–	–	–	–	–	–	2,633
–	–	–	–	–	–	–	–	–	–	–
<b>168</b>	<b>69</b>	<b>29</b>	<b>92</b>	<b>2,213</b>	<b>59</b>	<b>470</b>	<b>499</b>	<b>90</b>	<b>1,160</b>	<b>9,804</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table A3.2: Fiji Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	5	0	170	0	–	17	0
Mining and quarrying	c2	7	10	0	0	–	0	0
Food, beverages, and tobacco	c3	11	0	19	0	0	0	0
Textiles and textile products	c4	1	0	1	14	0	0	1
Leather, leather products, and footwear	c5	0	0	0	–	3	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	4	0
Pulp, paper, paper products, printing, and publishing	c7	1	0	1	2	0	0	2
Coke, refined petroleum, and nuclear fuel	c8	–	–	–	–	–	–	–
Chemicals and chemical products	c9	6	11	1	0	0	1	3
Rubber and plastics	c10	0	0	4	0	0	0	1
Other nonmetallic minerals	c11	0	0	20	0	–	0	1
Basic metals and fabricated metal	c12	5	0	0	0	0	0	0
Machinery, nec	c13	0	0	0	0	0	0	0
Electrical and optical equipment	c14	–	–	–	–	–	–	–
Transport equipment	c15	–	–	–	–	–	–	–
Manufacturing, nec; recycling	c16	3	0	1	2	0	0	0
Electricity, gas, and water supply	c17	19	5	12	1	–	1	1
Construction	c18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	0	1	0	–	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	18	5	55	10	2	8	3
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	2	1	1	0	–	0	–
Hotels and restaurants	c22	2	0	2	0	0	0	0
Inland transport	c23	1	0	4	0	–	0	0
Water transport	c24	0	0	2	0	–	0	0
Air transport	c25	4	0	4	0	–	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	4	1	25	1	–	0	0
Post and telecommunications	c27	28	0	2	0	–	0	1
Financial intermediation	c28	15	2	17	4	–	2	2
Real estate activities	c29	33	0	1	0	–	0	0
Renting of M&Eq and other business activities	c30	5	0	4	0	0	0	1
Public administration and defense; compulsory social security	c31	0	–	–	–	–	–	–
Education	c32	0	0	0	0	0	0	0
Health and social work	c33	0	0	0	0	0	0	0
Other community, social, and personal services	c34	2	0	0	1	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A3.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
-	0	0	0	0	0	-	0	0	0	1	0	0
-	0	0	13	0	0	-	0	0	0	32	0	0
-	0	0	0	0	0	0	0	0	0	1	0	0
-	2	0	0	0	0	0	0	3	1	1	0	0
-	0	0	0	0	0	-	0	1	0	0	-	-
-	0	0	0	0	0	0	0	14	0	7	0	0
-	0	0	0	0	0	0	0	0	1	0	0	2
-	-	-	-	-	-	-	-	-	-	-	-	-
-	3	0	1	0	0	0	0	0	1	1	0	8
-	0	1	0	0	0	0	0	0	0	3	0	5
-	0	1	2	-	0	-	0	0	0	6	0	4
-	0	0	0	24	1	0	0	2	0	18	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	0	-	-	-	0	0
-	0	0	0	0	0	0	0	1	3	0	0	1
-	7	0	1	1	0	-	0	1	14	1	1	6
-	0	0	0	0	0	0	0	0	0	4	0	0
-	0	0	0	0	0	-	0	0	0	0	0	0
-	3	1	1	6	0	0	0	8	17	6	0	2
-	-	-	-	0	0	-	0	1	1	4	0	0
-	0	0	0	0	0	0	0	0	0	0	0	1
-	2	0	0	0	0	-	0	0	0	0	0	1
-	0	0	0	0	0	-	0	0	0	0	0	1
-	2	0	0	1	0	-	0	0	1	1	0	26
-	1	0	0	0	0	-	0	0	1	0	0	19
-	1	0	0	0	0	-	0	0	2	4	1	24
-	2	0	1	3	0	-	0	2	12	17	1	19
-	1	-	0	-	0	-	0	0	2	2	0	6
-	3	0	0	0	0	0	0	0	2	14	0	10
-	-	-	-	-	-	-	-	-	-	-	-	-
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	1	0	0	1
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A3.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	0	26	0	0	0	0
Mining and quarrying	c2	0	1	0	0	1	0
Food, beverages, and tobacco	c3	0	49	0	0	1	0
Textiles and textile products	c4	0	3	0	0	1	0
Leather, leather products, and footwear	c5	–	–	0	0	0	0
Wood and products of wood and cork	c6	0	1	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	–	2	0	0	2	0
Coke, refined petroleum, and nuclear fuel	c8	–	–	–	–	–	–
Chemicals and chemical products	c9	–	2	0	0	0	0
Rubber and plastics	c10	–	0	0	0	0	0
Other nonmetallic minerals	c11	–	0	0	0	0	0
Basic metals and fabricated metal	c12	0	0	0	0	0	0
Machinery, nec	c13	0	0	0	0	0	0
Electrical and optical equipment	c14	–	–	–	–	–	–
Transport equipment	c15	0	–	0	0	–	0
Manufacturing, nec; recycling	c16	1	1	0	1	3	0
Electricity, gas, and water supply	c17	16	19	0	0	1	1
Construction	c18	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1	18	1	2	14	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	5	0	–	–	–
Hotels and restaurants	c22	1	2	0	0	1	0
Inland transport	c23	1	0	0	0	0	1
Water transport	c24	–	0	0	0	0	0
Air transport	c25	–	6	0	0	0	2
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	1	0	0	1	1
Post and telecommunications	c27	19	13	0	0	4	3
Financial intermediation	c28	19	29	0	1	5	1
Real estate activities	c29	1	8	0	0	5	2
Renting of M&Eq and other business activities	c30	–	8	0	1	11	2
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–
Education	c32	0	0	0	0	0	0
Health and social work	c33	–	1	0	0	0	0
Other community, social, and personal services	c34	0	16	0	0	1	0
Private households with employed persons	c35	–	–	–	–	–	–

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Table A3.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
0	0	0	0	3	5	3	0	–	408	–
0	1	0	1	0	1	0	0	–	2	–
0	1	0	1	3	3	2	0	–	389	–
2	1	1	2	5	1	1	0	–	61	–
0	–	–	0	1	–	0	–	–	10	–
0	0	1	0	0	0	0	0	–	23	–
1	9	3	3	6	15	0	0	–	11	–
–	–	–	–	–	–	–	–	–	–	–
1	0	1	1	0	2	5	0	–	5	–
0	0	0	1	0	0	0	0	–	4	–
0	0	0	1	0	0	0	0	–	4	–
0	0	0	8	0	0	0	0	–	26	–
0	0	1	1	0	0	0	0	–	5	–
–	–	–	–	–	–	–	–	–	–	–
0	–	–	0	–	–	–	–	–	2	–
0	0	5	4	0	1	0	0	–	29	–
4	8	2	10	5	12	4	0	–	41	4
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	7	–
5	7	2	19	12	8	5	0	–	138	–
1	2	0	–	1	1	–	–	–	193	–
1	1	0	6	1	0	0	1	–	62	7
0	10	0	17	0	0	0	1	–	70	–
0	0	0	0	0	0	0	0	–	29	–
3	8	0	11	11	6	0	0	–	34	–
2	1	0	4	0	1	0	0	–	25	–
28	26	1	18	8	8	0	0	–	74	5
8	12	38	24	13	27	2	0	–	191	–
2	11	1	19	8	2	0	0	–	120	–
6	12	2	13	0	12	0	0	–	90	–
–	–	–	–	–	–	–	–	–	1	–
0	0	0	0	0	0	0	0	–	77	124
0	0	0	0	0	0	0	0	–	12	27
0	0	3	2	0	1	0	0	–	3	0
–	–	–	–	–	–	–	–	–	–	–

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Table A3.2 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Domestic</b>						
Agriculture, hunting, forestry, and fishing	c1	28	0	(8)	104	<b>764</b>
Mining and quarrying	c2	2	0	(36)	64	<b>101</b>
Food, beverages, and tobacco	c3	9	1	(26)	242	<b>708</b>
Textiles and textile products	c4	2	0	9	34	<b>148</b>
Leather, leather products, and footwear	c5	–	–	1	1	<b>17</b>
Wood and products of wood and cork	c6	0	0	(6)	25	<b>70</b>
Pulp, paper, paper products, printing, and publishing	c7	0	8	2	13	<b>87</b>
Coke, refined petroleum, and nuclear fuel	c8	–	–	–	–	<b>–</b>
Chemicals and chemical products	c9	5	0	(0)	13	<b>72</b>
Rubber and plastics	c10	0	0	(0)	2	<b>22</b>
Other nonmetallic minerals	c11	–	–	(0)	4	<b>43</b>
Basic metals and fabricated metal	c12	0	0	(2)	24	<b>106</b>
Machinery, nec	c13	0	2	(0)	2	<b>14</b>
Electrical and optical equipment	c14	–	–	0	0	<b>0</b>
Transport equipment	c15	–	4	(0)	0	<b>7</b>
Manufacturing, nec; recycling	c16	1	15	3	14	<b>88</b>
Electricity, gas, and water supply	c17	5	0	(0)	2	<b>205</b>
Construction	c18	0	272	(0)	13	<b>293</b>
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	1	–	3	<b>15</b>
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	2	68	–	117	<b>567</b>
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	11	–	38	<b>263</b>
Hotels and restaurants	c22	2	2	(0)	485	<b>579</b>
Inland transport	c23	–	–	0	34	<b>144</b>
Water transport	c24	6	–	0	17	<b>57</b>
Air transport	c25	–	–	–	265	<b>388</b>
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	0	139	<b>228</b>
Post and telecommunications	c27	8	4	0	41	<b>329</b>
Financial intermediation	c28	23	0	(0)	21	<b>516</b>
Real estate activities	c29	–	0	–	1	<b>224</b>
Renting of M&Eq and other business activities	c30	144	3	0	108	<b>452</b>
Public administration and defense; compulsory social security	c31	489	–	–	6	<b>496</b>
Education	c32	178	0	–	17	<b>398</b>
Health and social work	c33	95	0	–	15	<b>150</b>
Other community, social, and personal services	c34	1	0	(0)	0	<b>37</b>
Private households with employed persons	c35	–	–	–	–	<b>–</b>

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Table A3.2 Imports Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Imports						
Agriculture, hunting, forestry, and fishing	m1	1	0	31	0	0	2	0
Mining and quarrying	m2	0	0	0	0	0	0	0
Food, beverages, and tobacco	m3	6	0	13	0	0	0	0
Textiles and textile products	m4	0	0	0	6	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	3	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	1	0	1	2	0	0	5
Coke, refined petroleum, and nuclear fuel	m8	53	5	10	1	0	2	0
Chemicals and chemical products	m9	9	22	2	0	0	1	7
Rubber and plastics	m10	0	0	13	1	0	0	4
Other nonmetallic minerals	m11	0	0	23	0	0	0	3
Basic metals and fabricated metal	m12	5	0	0	0	0	0	0
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0	0
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	1	0	0	1	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	4	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	0	0	1	0	0	1	0
Air transport	m25	1	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	4	0	1	0	0	0	1
Financial intermediation	m28	1	0	1	0	0	1	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	1	0	1	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	0
Total intermediate consumption	r60	256	67	450	50	8	43	36
Taxes less subsidies on products	r99	35	6	35	13	3	2	6
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	473	27	223	85	6	25	45
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	764	101	708	148	17	70	87

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Table A3.2 Imports Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	–	0	0	0	0	0	0
Mining and quarrying	m2	–	0	0	1	0	0	0
Food, beverages, and tobacco	m3	–	0	0	0	0	0	0
Textiles and textile products	m4	–	1	0	0	0	0	0
Leather, leather products, and footwear	m5	–	0	0	0	0	0	0
Wood and products of wood and cork	m6	–	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	–	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	–	0	1	0	2	0	0
Chemicals and chemical products	m9	–	8	1	3	0	0	0
Rubber and plastics	m10	–	0	4	0	0	0	0
Other nonmetallic minerals	m11	–	0	3	2	0	0	0
Basic metals and fabricated metal	m12	–	0	0	0	26	2	0
Machinery, nec	m13	–	0	0	0	0	0	0
Electrical and optical equipment	m14	–	0	0	0	1	0	0
Transport equipment	m15	–	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	–	0	0	0	0	0	0
Electricity, gas, and water supply	m17	–	0	0	0	0	0	0
Construction	m18	–	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	–	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	–	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	–	0	0	0	0	0	0
Hotels and restaurants	m22	–	0	0	0	0	0	0
Inland transport	m23	–	0	0	0	0	0	0
Water transport	m24	–	0	0	0	0	0	0
Air transport	m25	–	1	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	–	0	0	0	0	0	0
Post and telecommunications	m27	–	0	0	0	0	0	0
Financial intermediation	m28	–	0	0	0	0	0	0
Real estate activities	m29	–	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	–	1	0	0	0	0	0
Public administration and defense; compulsory social security	m31	–	0	0	0	0	0	–
Education	m32	–	0	0	0	0	0	0
Health and social work	m33	–	0	0	0	0	0	0
Other community, social, and personal services	m34	–	0	0	0	0	0	0
Private households with employed persons	m35	–	0	0	0	0	0	–
Total intermediate consumption	r60	–	43	14	26	68	5	0
Taxes less subsidies on products	r99	–	7	2	2	8	1	0
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	–	23	6	15	29	8	–
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	–	72	22	43	106	14	0

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Table A3.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	0	0	0	0	0	0	4	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	29	0	0	1	0
0	1	0	0	0	0	0	1	0	0	1	0
0	1	0	0	0	0	0	0	0	0	0	0
0	1	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	2	0	2	2	0	2	1
0	1	60	6	0	6	7	16	24	6	138	13
0	0	1	1	0	6	0	3	0	0	0	0
0	1	0	6	0	11	0	0	4	0	0	0
0	1	0	7	0	8	0	0	3	0	0	0
0	2	0	13	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	4	6	0	4
0	0	1	0	0	0	0	0	1	0	2	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	11	2	0	2	0	5	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	1	3	0	1
0	0	0	0	0	5	0	1	0	0	2	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	1	0	4	9	2	1	0	3	2
0	0	1	3	0	1	0	3	1	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2	0	2	0	2	1	0	5	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	0	0
<b>3</b>	<b>43</b>	<b>126</b>	<b>168</b>	<b>5</b>	<b>191</b>	<b>79</b>	<b>277</b>	<b>49</b>	<b>25</b>	<b>214</b>	<b>43</b>
1	7	24	13	1	24	12	47	12	9	64	21
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
3	38	55	112	10	352	172	255	83	24	110	165
–	–	–	–	–	–	–	–	–	–	–	–
<b>7</b>	<b>88</b>	<b>205</b>	<b>293</b>	<b>15</b>	<b>567</b>	<b>263</b>	<b>579</b>	<b>144</b>	<b>57</b>	<b>388</b>	<b>228</b>

*continued on next page*

Table A3.2 Imports Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0
Mining and quarrying	m2	0	0	0	0	0
Food, beverages, and tobacco	m3	0	0	0	0	1
Textiles and textile products	m4	1	0	0	0	1
Leather, leather products, and footwear	m5	0	0	0	0	1
Wood and products of wood and cork	m6	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	3	11	1	1	6
Coke, refined petroleum, and nuclear fuel	m8	4	19	0	15	11
Chemicals and chemical products	m9	2	0	2	1	0
Rubber and plastics	m10	0	0	0	2	0
Other nonmetallic minerals	m11	0	0	0	1	0
Basic metals and fabricated metal	m12	0	0	0	3	0
Machinery, nec	m13	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0
Transport equipment	m15	4	0	0	5	0
Manufacturing, nec; recycling	m16	0	0	2	1	0
Electricity, gas, and water supply	m17	0	0	0	0	0
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	2	1	0	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	0	0	0	0	0
Water transport	m24	1	2	0	0	4
Air transport	m25	1	2	0	1	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0
Post and telecommunications	m27	9	6	0	1	1
Financial intermediation	m28	1	6	0	0	1
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	2	2	1	1	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	0
Total intermediate consumption	r60	99	160	73	203	110
Taxes less subsidies on products	r99	18	22	7	15	16
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	211	333	144	234	369
International transport margins		–	–	–	–	–
Output at basic prices	r69	329	516	224	452	496

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Table A3.2 Imports Industry *continued*

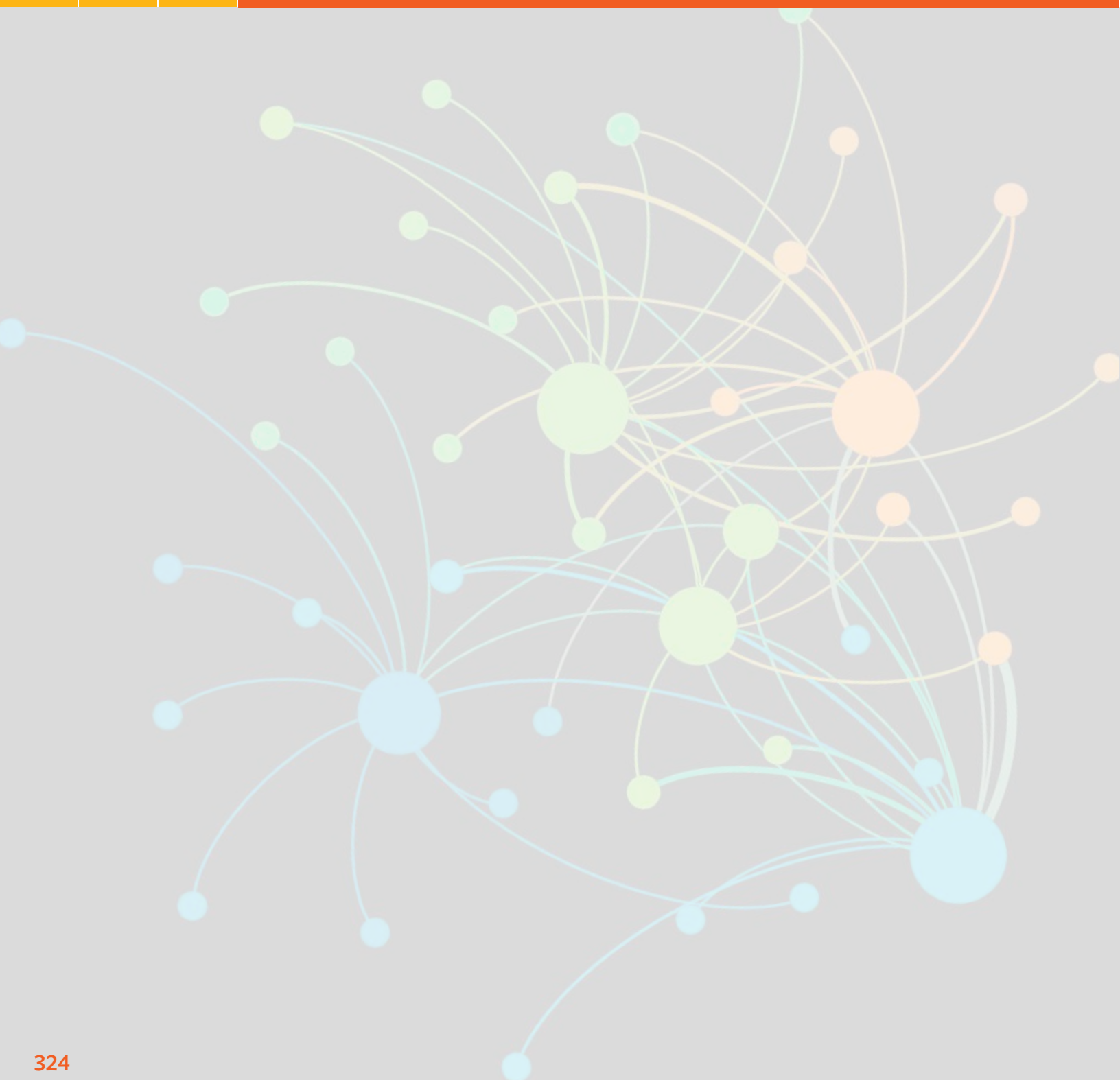
Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
0	0	0	–	56	0	0	0	2	–	98
0	0	0	–	0	–	0	0	(1)	–	2
1	1	1	–	191	0	0	0	36	–	281
0	0	0	–	22	0	0	0	3	–	42
0	0	0	–	8	–	–	0	0	–	13
0	0	0	–	2	0	0	0	0	–	4
11	0	1	–	10	0	0	8	(2)	–	67
3	0	2	–	74	0	0	0	7	–	488
1	8	3	–	9	0	2	0	3	–	99
0	0	0	–	6	0	0	0	1	–	54
0	0	0	–	5	0	0	0	1	–	59
0	0	0	–	30	0	0	0	2	–	84
0	0	0	–	8	0	1	4	0	–	16
0	0	0	–	3	0	0	1	0	–	6
0	0	0	–	70	0	1	386	31	–	515
0	0	0	–	10	0	0	17	1	–	38
0	0	0	–	2	0	0	0	0	–	3
0	0	0	–	0	0	0	1	0	–	2
0	0	0	–	0	0	0	0	0	–	0
0	0	0	–	29	0	0	1	0	–	65
0	0	0	–	2	0	0	0	0	–	4
0	0	0	–	6	0	0	0	0	–	8
0	0	1	–	5	0	0	0	2	–	9
0	0	0	–	3	–	0	0	4	–	23
1	0	1	–	29	–	0	0	0	–	50
0	0	0	–	1	0	0	0	0	–	2
3	0	1	–	17	0	0	1	(0)	–	68
2	0	0	–	18	0	0	1	0	–	43
0	0	0	–	0	0	0	0	0	–	1
1	0	1	–	8	0	1	1	0	–	37
0	0	0	–	0	0	0	0	0	–	0
0	0	0	–	4	2	1	0	0	–	7
0	0	0	–	1	0	1	0	0	–	2
0	0	0	–	0	0	0	0	0	–	1
0	0	0	–	3	0	0	7	0	–	13
132	37	15	–	2,779	170	1,010	825	25	1,866	9,793
9	4	9	–	418	–	19	92	36	–	1,021
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
257	109	13	–	–	–	–	–	–	–	4,013
–	–	–	–	–	–	–	–	–	–	–
398	150	37	–	3,197	170	1,029	917	61	1,866	14,826

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

# A4

## APPENDIX 4: INPUT-OUTPUT TABLES FOR 2010 AND 2017—INDONESIA



**Table A4.1: Indonesia Input–Output Table, 2010** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	5,102	6	48,315	1,168	13	2,794	515
Mining and quarrying	c2	0	9,874	117	7	0	3	0
Food, beverages, and tobacco	c3	4,530	113	21,667	89	341	57	38
Textiles and textile products	c4	49	7	15	3,056	59	13	14
Leather, leather products, and footwear	c5	1	20	0	118	268	1	1
Wood and products of wood and cork	c6	20	3	5	1	0	1,618	1
Pulp, paper, paper products, printing, and publishing	c7	33	159	702	105	54	45	7,248
Coke, refined petroleum, and nuclear fuel	c8	623	1,164	271	264	14	140	344
Chemicals and chemical products	c9	859	609	371	1,127	82	380	735
Rubber and plastics	c10	107	13	20	36	146	58	56
Other nonmetallic minerals	c11	1	–	0	1	4	20	–
Basic metals and fabricated metal	c12	93	22	51	59	23	72	72
Machinery, nec	c13	92	601	43	72	6	55	108
Electrical and optical equipment	c14	1	55	0	16	0	0	13
Transport equipment	c15	154	261	195	86	–	37	92
Manufacturing, nec; recycling	c16	23	76	65	23	9	5	39
Electricity, gas, and water supply	c17	50	165	432	436	35	128	432
Construction	c18	2,484	2,588	169	20	6	4	71
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	596	581	1,533	297	–	171	257
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1,703	923	7,382	1,244	305	924	1,520
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,000	542	4,334	731	179	542	893
Hotels and restaurants	c22	22	207	152	113	15	61	141
Inland transport	c23	297	713	1,560	280	53	178	622
Water transport	c24	108	465	563	101	16	67	86
Air transport	c25	18	230	142	29	5	18	26
Other supporting and auxiliary transport activities; activities of travel agencies	c26	55	83	225	32	11	24	35
Post and telecommunications	c27	36	252	292	155	26	63	271
Financial intermediation	c28	1,230	1,586	929	447	70	173	665
Real estate activities	c29	0	42	5	8	1	1	24
Renting of M&Eq and other business activities	c30	277	1,724	450	256	–	104	263
Public administration and defense; compulsory social security	c31	177	351	110	35	6	0	72
Education	c32	–	12	6	5	1	0	24
Health and social work	c33	1	70	17	21	1	0	87
Other community, social, and personal services	c34	169	32	411	83	57	25	146
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A4.1 Domestic Industry *continued*

Industry		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	8	1,194	5,450	55	40	1	0
Mining and quarrying	c2	21,431	5,389	582	3,725	6,995	4	102
Food, beverages, and tobacco	c3	50	487	11	16	35	7	32
Textiles and textile products	c4	0	26	29	3	29	1	3
Leather, leather products, and footwear	c5	0	2	3	1	9	0	3
Wood and products of wood and cork	c6	2	20	16	100	261	0	9
Pulp, paper, paper products, printing, and publishing	c7	43	254	83	68	58	5	299
Coke, refined petroleum, and nuclear fuel	c8	580	479	112	313	436	13	85
Chemicals and chemical products	c9	30	5,678	3,221	462	1,160	59	761
Rubber and plastics	c10	4	101	2,280	21	49	37	568
Other nonmetallic minerals	c11	0	4	21	471	68	1	23
Basic metals and fabricated metal	c12	44	32	62	332	2,058	46	158
Machinery, nec	c13	65	45	45	51	119	1,870	637
Electrical and optical equipment	c14	5	20	9	33	317	213	4,164
Transport equipment	c15	157	95	92	59	145	26	149
Manufacturing, nec; recycling	c16	26	43	8	4	15	2	37
Electricity, gas, and water supply	c17	147	346	320	445	846	103	589
Construction	c18	167	7	1	402	161	1	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	163	257	264	104	349	121	421
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	946	1,527	1,433	602	1,813	734	2,358
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	555	897	841	353	1,064	431	1,384
Hotels and restaurants	c22	24	94	54	158	186	14	104
Inland transport	c23	197	301	291	218	474	138	481
Water transport	c24	295	94	97	40	125	45	155
Air transport	c25	33	24	24	13	42	10	43
Other supporting and auxiliary transport activities; activities of travel agencies	c26	29	46	40	43	67	18	64
Post and telecommunications	c27	49	177	56	92	173	27	147
Financial intermediation	c28	143	446	319	134	295	101	187
Real estate activities	c29	7	9	22	8	35	1	17
Renting of M&Eq and other business activities	c30	485	186	124	192	214	66	287
Public administration and defense; compulsory social security	c31	89	68	68	11	17	–	0
Education	c32	4	13	2	10	9	1	2
Health and social work	c33	5	39	5	11	60	2	4
Other community, social, and personal services	c34	93	389	117	20	28	3	80
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A4.1 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
3	129	0	3,569	6	6	4	6,934	1	10	42	0
13	93	3,653	10,153	1	7	4	1	0	–	–	9
28	23	19	85	24	77	45	11,300	2	428	204	25
8	83	5	153	51	94	55	13	1	2	0	2
5	19	2	4	1	2	1	0	0	0	0	3
28	768	0	7,882	6	151	88	5	–	–	0	1
76	187	5	692	360	1,560	909	106	7	11	9	30
145	89	2,485	6,602	611	2,849	1,661	122	5,386	1,794	2,186	74
156	317	27	2,194	90	152	89	41	23	26	1	2
470	303	2	5,108	317	944	550	39	459	25	135	34
16	29	0	12,225	2	4	3	–	56	8	0	0
248	302	13	18,303	178	347	202	22	44	15	0	0
124	74	59	490	73	4	2	–	0	–	0	3
409	89	82	1,217	392	66	39	–	95	–	0	5
4,971	53	41	1,021	421	368	215	140	1,158	39	128	20
3	117	13	216	28	129	75	18	15	98	47	1
170	224	15,700	480	320	653	381	185	145	35	6	106
1	10	51	1,195	372	1,832	1,068	77	201	235	3	586
391	116	104	2,642	429	768	448	476	1,474	108	67	61
2,053	619	527	11,163	623	909	593	2,291	938	386	432	180
1,205	363	309	6,553	366	534	348	1,345	550	227	254	106
68	55	21	1,758	110	674	393	27	16	35	339	19
426	179	168	3,413	422	1,266	738	473	273	68	59	22
140	43	28	892	41	114	66	172	149	17	21	449
27	12	10	249	23	200	116	30	28	20	128	129
86	15	11	533	70	171	100	68	240	1,020	965	394
92	113	146	1,125	359	1,359	792	73	71	121	220	206
322	194	249	1,910	844	3,205	1,868	233	234	414	197	165
7	1	5	153	408	1,163	678	28	34	4	1	15
265	165	261	2,130	497	1,124	655	142	541	303	500	120
114	0	5	887	3	7	4	120	175	41	26	1
2	0	6	118	3	71	41	7	11	1	8	6
17	1	15	163	48	71	41	2	3	22	4	18
98	114	10	336	148	151	88	95	47	2	23	34
–	–	–	–	–	–	–	–	–	–	–	–

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Table A4.1 Domestic Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	-	3	0	0	6
Mining and quarrying	c2	-	-	2	118	-
Food, beverages, and tobacco	c3	10	107	12	45	45
Textiles and textile products	c4	2	2	5	9	60
Leather, leather products, and footwear	c5	0	1	0	5	23
Wood and products of wood and cork	c6	0	-	3	3	8
Pulp, paper, paper products, printing, and publishing	c7	246	702	97	449	1,801
Coke, refined petroleum, and nuclear fuel	c8	23	16	56	392	460
Chemicals and chemical products	c9	2	45	20	84	335
Rubber and plastics	c10	5	188	59	73	145
Other nonmetallic minerals	c11	0	0	63	9	79
Basic metals and fabricated metal	c12	15	184	37	42	40
Machinery, nec	c13	13	0	0	128	-
Electrical and optical equipment	c14	188	12	16	154	82
Transport equipment	c15	37	152	38	192	18
Manufacturing, nec; recycling	c16	46	71	18	90	52
Electricity, gas, and water supply	c17	173	193	52	162	279
Construction	c18	671	423	2,079	454	1,205
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	132	211	27	446	654
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	394	505	206	671	541
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	231	296	121	394	317
Hotels and restaurants	c22	103	49	17	120	3,530
Inland transport	c23	89	117	23	222	732
Water transport	c24	192	19	6	135	108
Air transport	c25	30	57	17	127	625
Other supporting and auxiliary transport activities; activities of travel agencies	c26	19	7	3	27	142
Post and telecommunications	c27	3,911	865	78	530	554
Financial intermediation	c28	443	2,774	644	945	1,714
Real estate activities	c29	181	82	17	114	15
Renting of M&Eq and other business activities	c30	1,046	1,176	233	1,074	487
Public administration and defense; compulsory social security	c31	1,016	264	180	118	13
Education	c32	26	179	0	16	84
Health and social work	c33	6	77	4	24	59
Other community, social, and personal services	c34	289	385	73	548	104
Private households with employed persons	c35	-	-	-	-	-

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Table A4.1 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
77	1,013	16	–	33,017	–	–	10,919	3,032	4,320	<b>127,768</b>
–	–	0	–	–	–	–	710	480	44,315	<b>107,788</b>
50	1,623	76	–	79,416	–	1,075	–	689	21,957	<b>144,837</b>
42	16	59	–	9,351	–	–	161	920	11,809	<b>26,206</b>
1	0	19	–	1,130	–	–	3	228	3,180	<b>5,057</b>
15	0	31	–	464	–	–	–	85	3,192	<b>14,786</b>
3,479	61	109	–	882	–	–	26	105	6,088	<b>27,154</b>
203	68	65	–	9,802	–	–	–	238	15,422	<b>55,588</b>
568	1,334	397	–	5,316	–	–	–	951	9,231	<b>36,938</b>
100	40	87	–	3,608	–	–	131	493	10,999	<b>27,810</b>
117	37	65	–	1,554	–	–	5	63	1,016	<b>15,966</b>
59	18	112	–	301	–	–	308	110	11,350	<b>35,375</b>
23	6	22	–	0	–	–	3,793	117	1,986	<b>10,728</b>
219	102	193	–	5,258	–	–	2,078	387	14,883	<b>30,812</b>
33	19	30	–	11,375	–	–	3,879	60	4,499	<b>30,457</b>
293	222	226	–	2,393	–	–	1,356	266	3,776	<b>9,941</b>
102	181	161	–	10,605	–	5	–	3	65	<b>34,860</b>
495	38	66	–	–	–	–	180,398	2,362	517	<b>200,420</b>
287	151	65	–	14,238	–	25	901	191	0	<b>29,525</b>
844	820	772	–	21,367	–	258	4,596	943	52	<b>76,099</b>
495	482	453	–	12,543	–	152	2,698	554	0	<b>44,643</b>
114	15	35	–	35,428	–	–	–	–	4,385	<b>48,655</b>
444	177	71	–	14,499	–	26	941	200	243	<b>31,092</b>
55	48	28	–	3,981	–	10	346	73	725	<b>10,114</b>
50	15	21	–	8,389	–	2	76	16	1,701	<b>12,755</b>
31	22	29	–	2,093	–	4	149	32	449	<b>7,451</b>
209	119	309	–	17,099	–	–	–	–	1,398	<b>31,565</b>
289	192	213	–	11,912	–	643	–	–	113	<b>36,443</b>
66	11	19	–	22,924	–	–	–	–	271	<b>26,377</b>
253	54	168	–	1,055	–	–	2,026	–	3,570	<b>22,474</b>
28	13	7	–	1,190	–	40,209	31	–	589	<b>46,046</b>
976	17	4	–	14,553	–	17,904	–	–	118	<b>34,241</b>
49	1,041	4	–	9,566	–	4,611	–	–	314	<b>16,483</b>
106	60	7,687	–	13,306	–	8	654	57	989	<b>27,064</b>
–	–	–	–	–	–	–	–	–	–	–

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Table A4.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Industry								
Imports								
Agriculture, hunting, forestry, and fishing	m1	341	1	2,974	115	4	20	3
Mining and quarrying	m2	6	1,275	17	4	0	1	4
Food, beverages, and tobacco	m3	479	19	2,195	21	38	7	11
Textiles and textile products	m4	55	16	18	2,428	253	12	18
Leather, leather products, and footwear	m5	1	16	1	164	809	1	2
Wood and products of wood and cork	m6	1	1	1	2	1	111	13
Pulp, paper, paper products, printing, and publishing	m7	6	27	83	13	8	11	1,001
Coke, refined petroleum, and nuclear fuel	m8	303	555	111	121	8	48	166
Chemicals and chemical products	m9	594	488	219	760	120	221	556
Rubber and plastics	m10	29	10	22	55	43	19	44
Other nonmetallic minerals	m11	4	8	6	21	1	6	5
Basic metals and fabricated metal	m12	40	54	35	48	10	31	79
Machinery, nec	m13	146	949	63	101	10	69	166
Electrical and optical equipment	m14	11	108	12	19	2	5	28
Transport equipment	m15	83	125	58	29	6	12	34
Manufacturing, nec; recycling	m16	5	14	8	7	3	2	7
Electricity, gas, and water supply	m17	3	21	13	7	1	1	10
Construction	m18	84	93	8	1	0	0	3
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	4	2	11	14	1	4	4
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	90	68	259	157	27	31	62
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	21	8	85	65	7	12	20
Hotels and restaurants	m22	11	74	58	22	14	12	46
Inland transport	m23	31	51	147	25	5	10	24
Water transport	m24	11	13	38	14	3	13	12
Air transport	m25	18	143	93	22	4	16	21
Other supporting and auxiliary transport activities; activities of travel agencies	m26	6	8	33	10	2	12	8
Post and telecommunications	m27	4	13	14	7	1	3	13
Financial intermediation	m28	34	79	23	12	2	4	16
Real estate activities	m29	0	5	1	1	0	0	2
Renting of M&Eq and other business activities	m30	13	563	38	18	3	5	43
Public administration and defense; compulsory social security	m31	20	44	20	5	2	1	10
Education	m32	1	4	2	1	0	0	4
Health and social work	m33	1	15	3	3	0	0	16
Other community, social, and personal services	m34	17	7	56	12	5	3	19
Private households with employed persons	m35	0	0	0	0	0	0	0
Total intermediate consumption	r60	22,389	28,427	97,273	14,821	3,198	8,486	17,384
Taxes less subsidies on products	r99	–	–	–	–	–	–	–
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	105,202	79,016	47,059	10,952	1,812	6,247	9,571
International transport margins		177	346	506	432	47	53	198
Output at basic prices	r69	127,768	107,788	144,837	26,206	5,057	14,786	27,154

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Table A4.1 Import Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
0	80	376	2	2	0	1	0	8	0	25	0	1
2,735	684	80	435	848	9	24	4	12	474	1,310	6	20
7	78	24	5	12	3	10	4	5	2	31	4	10
1	41	40	6	39	2	8	10	79	4	179	57	91
0	3	8	1	8	0	4	4	25	3	10	0	15
1	3	2	3	8	1	3	1	18	0	204	1	5
5	30	15	9	9	2	43	7	18	2	105	49	214
273	336	139	141	227	8	58	116	43	1,127	2,982	282	1,290
32	3,226	2,431	334	883	53	576	107	225	40	1,758	42	117
3	42	455	7	47	66	127	120	58	2	1,008	63	185
12	17	8	119	27	7	22	11	4	7	674	1	2
53	49	48	225	1,906	164	207	246	231	14	9,849	54	98
104	77	76	79	198	2,756	1,028	188	112	94	865	122	12
10	50	21	35	436	314	5,540	418	104	109	1,596	543	64
54	36	36	22	133	101	138	1,718	23	17	449	140	119
4	12	8	2	8	8	21	7	14	2	59	6	18
13	13	6	11	88	2	9	5	2	10	30	15	24
9	1	1	14	7	4	2	1	1	3	50	14	64
3	6	8	2	7	6	20	9	2	1	26	1	2
84	112	98	36	105	107	200	86	19	41	498	14	41
15	31	29	13	30	35	74	40	7	4	119	4	10
9	33	18	49	62	5	34	19	16	7	596	39	236
80	34	25	17	39	17	29	19	7	16	127	8	22
10	12	8	6	14	8	22	10	3	2	45	1	51
20	18	16	9	27	10	41	20	8	6	156	15	143
3	8	6	6	10	4	12	9	3	1	44	5	17
3	8	2	4	7	2	10	4	5	7	51	16	59
8	15	8	3	8	3	5	10	4	7	74	40	109
1	1	2	1	3	0	2	1	0	0	15	34	97
43	19	11	47	39	9	30	40	14	31	777	122	252
11	10	8	3	33	1	3	12	1	2	107	4	9
1	2	1	2	2	2	1	1	0	1	24	1	12
1	8	1	2	12	1	4	3	0	3	35	10	15
7	27	5	3	5	4	13	13	13	3	34	24	42
0	0	0	0	0	0	0	0	0	0	0	0	0
<b>29,487</b>	<b>23,912</b>	<b>20,125</b>	<b>10,219</b>	<b>23,040</b>	<b>7,815</b>	<b>21,677</b>	<b>15,448</b>	<b>5,985</b>	<b>26,071</b>	<b>129,527</b>	<b>9,380</b>	<b>24,497</b>
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
25,727	12,580	7,346	5,606	11,868	2,615	8,512	14,773	3,872	8,626	68,978	20,041	51,428
374	446	339	141	467	298	623	236	84	163	1,914	105	175
<b>55,588</b>	<b>36,938</b>	<b>27,810</b>	<b>15,966</b>	<b>35,375</b>	<b>10,728</b>	<b>30,812</b>	<b>30,457</b>	<b>9,941</b>	<b>34,860</b>	<b>200,420</b>	<b>29,525</b>	<b>76,099</b>

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Table A4.1 Import Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	1	330	0	1	3	0
Mining and quarrying	m2	11	2	32	10	13	0
Food, beverages, and tobacco	m3	6	1,122	1	43	21	2
Textiles and textile products	m4	53	12	1	2	0	2
Leather, leather products, and footwear	m5	9	2	0	1	0	1
Wood and products of wood and cork	m6	3	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	123	9	3	2	2	1
Coke, refined petroleum, and nuclear fuel	m8	741	51	2,452	750	976	17
Chemicals and chemical products	m9	68	21	47	18	18	4
Rubber and plastics	m10	108	8	90	5	27	11
Other nonmetallic minerals	m11	2	1	7	1	3	1
Basic metals and fabricated metal	m12	57	7	21	7	9	1
Machinery, nec	m13	7	1	5	2	10	3
Electrical and optical equipment	m14	37	4	108	8	7	10
Transport equipment	m15	69	41	357	105	851	15
Manufacturing, nec; recycling	m16	10	2	3	12	14	0
Electricity, gas, and water supply	m17	14	5	2	4	1	1
Construction	m18	37	3	7	8	1	11
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	2	2	1	1	2	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	17	66	19	42	29	11
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	8	22	10	3	6	2
Hotels and restaurants	m22	137	17	6	12	117	8
Inland transport	m23	21	29	10	5	9	2
Water transport	m24	6	8	5	37	12	17
Air transport	m25	77	20	18	27	100	81
Other supporting and auxiliary transport activities; activities of travel agencies	m26	13	6	19	69	66	41
Post and telecommunications	m27	34	4	4	6	11	7
Financial intermediation	m28	63	8	7	17	12	3
Real estate activities	m29	57	2	3	0	0	1
Renting of M&Eq and other business activities	m30	147	28	52	31	32	17
Public administration and defense; compulsory social security	m31	5	14	19	6	6	0
Education	m32	7	1	2	0	2	1
Health and social work	m33	9	0	1	4	1	0
Other community, social, and personal services	m34	34	45	4	1	5	13
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	14,351	26,479	15,696	6,755	8,379	3,111
Taxes less subsidies on products	r99	–	–	–	–	–	–
Cif/fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	30,191	22,037	15,169	3,282	4,215	4,333
International transport margins		102	140	227	77	161	6
Output at basic prices	r69	44,643	48,655	31,092	10,114	12,755	7,451

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Table A4.1 Import Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	1	0	0	2	6	67	1	–	1,040	–
1	1	1	19	4	3	2	2	–	67	–
2	12	1	6	8	9	170	9	–	3,636	–
2	2	5	8	65	47	17	55	–	524	–
0	3	0	7	25	2	2	25	–	269	–
0	0	0	1	1	2	1	1	–	12	–
24	73	5	49	254	361	7	12	–	430	–
11	12	15	175	216	105	39	31	–	3,936	–
2	34	11	50	166	372	219	134	–	1,428	–
2	37	13	22	31	24	9	43	–	496	–
0	1	7	7	6	8	3	4	–	38	–
7	51	21	20	17	44	9	35	–	141	–
24	3	1	202	5	41	12	37	–	96	–
357	27	13	278	84	300	170	291	–	7,928	–
15	48	16	69	171	17	9	15	–	1,124	–
7	9	1	12	9	38	28	26	–	356	–
2	2	1	6	4	4	18	6	–	295	–
24	15	46	16	42	17	1	2	–	5	–
1	1	1	1	2	1	1	1	–	44	–
9	11	7	21	24	29	26	37	–	446	–
3	4	4	6	25	4	5	4	–	222	–
37	17	47	41	1,241	40	6	12	–	1,656	–
3	3	10	10	16	10	7	5	–	467	–
6	2	2	7	15	3	2	3	–	147	–
20	38	21	80	388	31	9	15	–	785	–
3	3	3	5	12	3	2	3	–	171	–
190	42	4	26	27	11	6	15	–	292	–
17	88	9	33	44	9	12	7	–	356	–
15	7	1	10	2	6	1	2	–	123	–
197	212	58	230	84	75	9	27	–	208	–
109	31	15	16	16	7	11	3	–	55	–
5	25	0	3	22	133	3	1	–	69	–
2	15	0	5	16	10	206	1	–	136	–
34	46	12	93	28	13	5	232	–	714	–
0	0	0	0	0	0	0	0	–	0	–
<b>10,670</b>	<b>10,041</b>	<b>4,557</b>	<b>9,452</b>	<b>17,387</b>	<b>11,956</b>	<b>9,109</b>	<b>12,716</b>	–	<b>406,328</b>	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
20,863	26,377	21,809	12,951	28,569	22,178	7,311	14,290	–	–	–
32	25	10	71	90	108	63	59	–	1,624	–
<b>31,565</b>	<b>36,443</b>	<b>26,377</b>	<b>22,474</b>	<b>46,046</b>	<b>34,241</b>	<b>16,483</b>	<b>27,064</b>	–	<b>407,952</b>	–

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Table A4.1 Import Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	3	3	–	5,414
Mining and quarrying	m2	0	26	2	–	8,144
Food, beverages, and tobacco	m3	45	8	13	–	8,078
Textiles and textile products	m4	0	19	(0)	–	4,170
Leather, leather products, and footwear	m5	0	1	4	–	1,428
Wood and products of wood and cork	m6	0	7	3	–	411
Pulp, paper, paper products, printing, and publishing	m7	0	10	1	–	3,024
Coke, refined petroleum, and nuclear fuel	m8	2	3	11	–	17,878
Chemicals and chemical products	m9	0	38	16	–	15,428
Rubber and plastics	m10	0	23	1	–	3,354
Other nonmetallic minerals	m11	0	18	39	–	1,104
Basic metals and fabricated metal	m12	0	297	17	–	14,202
Machinery, nec	m13	0	5,868	176	–	13,708
Electrical and optical equipment	m14	0	3,309	526	–	22,882
Transport equipment	m15	0	5,305	51	–	11,610
Manufacturing, nec; recycling	m16	1	185	24	–	952
Electricity, gas, and water supply	m17	4	9	3	–	661
Construction	m18	0	14	0	–	608
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	28	1	–	224
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1	387	19	–	3,336
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	97	2	–	1,055
Hotels and restaurants	m22	0	1	1	–	4,757
Inland transport	m23	3	50	1	–	1,392
Water transport	m24	0	4	(1)	–	572
Air transport	m25	0	2	0	–	2,521
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	6	0	–	633
Post and telecommunications	m27	5	4	0	–	921
Financial intermediation	m28	11	7	0	–	1,169
Real estate activities	m29	0	1	0	–	399
Renting of M&Eq and other business activities	m30	4	916	1	–	4,446
Public administration and defense; compulsory social security	m31	188	10	1	–	816
Education	m32	58	6	0	–	403
Health and social work	m33	77	3	0	–	620
Other community, social, and personal services	m34	14	5	0	–	1,610
Private households with employed persons	m35	1	0	0	–	2
Total intermediate consumption	r60	65,350	232,856	13,574	183,521	1,601,451
Taxes less subsidies on products	r99	–	–	–	–	–
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	735,405
International transport margins		4	1,270	73	–	11,263
Output at basic prices	r69	65,353	234,126	13,648	183,521	2,348,120

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.



**Table A4.2: Indonesia Input–Output Table, 2017** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	6,521	6	66,407	1,231	13	2,863	498
Mining and quarrying	c2	0	8,538	125	5	0	3	0
Food, beverages, and tobacco	c3	5,445	117	27,669	65	420	64	42
Textiles and textile products	c4	35	6	12	1,883	41	9	9
Leather, leather products, and footwear	c5	35	58	12	2,127	691	9	11
Wood and products of wood and cork	c6	16	2	5	0	0	1,267	1
Pulp, paper, paper products, printing, and publishing	c7	34	147	811	92	65	47	6,999
Coke, refined petroleum, and nuclear fuel	c8	770	1,178	338	271	-	152	355
Chemicals and chemical products	c9	1,042	653	495	1,195	63	436	816
Rubber and plastics	c10	81	9	16	8	125	41	39
Other nonmetallic minerals	c11	1	-	0	4	0	21	-
Basic metals and fabricated metal	c12	99	23	66	79	6	77	88
Machinery, nec	c13	99	588	52	73	-	58	109
Electrical and optical equipment	c14	1	64	0	16	0	0	18
Transport equipment	c15	170	244	224	77	-	37	89
Manufacturing, nec; recycling	c16	17	49	51	19	-	3	28
Electricity, gas, and water supply	c17	68	185	616	506	29	162	527
Construction	c18	3,473	3,259	262	24	8	6	101
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	757	650	2,119	332	-	219	327
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	2,169	991	10,020	1,340	416	1,161	1,881
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,271	580	5,871	785	244	681	1,102
Hotels and restaurants	c22	30	257	232	136	19	81	181
Inland transport	c23	410	860	2,308	319	92	245	803
Water transport	c24	136	539	758	102	30	84	108
Air transport	c25	66	724	560	91	19	63	95
Other supporting and auxiliary transport activities; activities of travel agencies	c26	108	130	496	65	14	49	71
Post and telecommunications	c27	43	287	409	170	34	76	332
Financial intermediation	c28	1,803	2,031	1,479	534	124	238	891
Real estate activities	c29	1	44	6	6	4	1	26
Renting of M&Eq and other business activities	c30	429	2,583	716	253	75	147	388
Public administration and defense; compulsory social security	c31	209	367	142	42	-	0	77
Education	c32	-	14	8	7	0	0	31
Health and social work	c33	1	83	25	23	2	0	106
Other community, social, and personal services	c34	241	39	591	125	36	31	186
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A4.2 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Industry								
Domestic								
Agriculture, hunting, forestry, and fishing	c1	13	1,838	6,762	75	56	2	0
Mining and quarrying	c2	32,726	6,376	568	4,296	8,343	4	115
Food, beverages, and tobacco	c3	92	704	13	22	50	9	43
Textiles and textile products	c4	0	24	22	4	29	1	2
Leather, leather products, and footwear	c5	0	26	25	4	51	2	16
Wood and products of wood and cork	c6	2	20	13	98	261	0	9
Pulp, paper, paper products, printing, and publishing	c7	75	345	90	86	77	6	371
Coke, refined petroleum, and nuclear fuel	c8	1,037	671	128	423	608	16	113
Chemicals and chemical products	c9	57	8,623	3,900	660	1,726	79	1,075
Rubber and plastics	c10	5	94	1,713	18	46	31	498
Other nonmetallic minerals	c11	0	6	23	594	88	1	29
Basic metals and fabricated metal	c12	82	49	72	482	3,348	65	224
Machinery, nec	c13	112	61	49	67	162	2,253	819
Electrical and optical equipment	c14	9	36	11	47	512	295	6,319
Transport equipment	c15	259	123	97	73	197	30	184
Manufacturing, nec; recycling	c16	29	39	6	3	14	2	31
Electricity, gas, and water supply	c17	309	557	424	693	1,281	151	916
Construction	c18	372	13	1	674	277	1	2
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	308	389	344	150	516	163	614
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1,774	2,290	1,831	859	2,645	979	3,383
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,040	1,342	1,073	504	1,550	574	1,983
Hotels and restaurants	c22	53	163	75	261	317	21	169
Inland transport	c23	403	490	405	345	762	200	753
Water transport	c24	596	138	123	56	181	59	220
Air transport	c25	182	106	89	54	180	38	181
Other supporting and auxiliary transport activities; activities of travel agencies	c26	85	109	83	90	150	40	147
Post and telecommunications	c27	99	282	73	139	275	38	221
Financial intermediation	c28	322	795	465	230	529	162	319
Real estate activities	c29	12	14	26	11	51	1	23
Renting of M&Eq and other business activities	c30	1,139	341	185	365	421	106	504
Public administration and defense; compulsory social security	c31	166	97	80	15	25	-	0
Education	c32	9	21	3	15	15	2	4
Health and social work	c33	10	65	6	18	98	2	6
Other community, social, and personal services	c34	197	665	162	31	47	4	122
Private households with employed persons	c35	-	-	-	-	-	-	

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Table A4.2 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
5	157	0	5,079	7	8	5	10,614	1	14	107	0
16	94	4,416	13,065	1	8	4	1	0	-	-	12
40	28	27	131	32	99	58	15,440	3	556	487	43
10	70	4	144	42	68	39	11	0	1	0	5
12	89	13	143	42	103	60	11	1	3	0	6
28	658	0	8,590	6	139	80	5	-	-	0	1
100	211	7	973	446	1,821	1,056	137	8	13	20	48
200	105	3,516	9,944	819	3,616	2,097	162	6,722	2,276	5,091	125
227	397	38	3,501	131	206	120	60	32	37	3	4
437	235	2	5,061	280	788	457	35	377	21	207	38
20	32	0	17,216	2	5	3	-	66	9	0	0
366	370	17	28,400	225	414	240	28	51	17	0	1
165	85	80	713	94	4	3	-	0	-	0	5
635	117	130	2,040	598	88	51	-	129	-	1	10
6,288	58	53	1,415	520	430	249	172	1,330	57	442	32
2	88	11	206	24	104	60	15	12	79	70	1
269	309	26,123	835	487	947	549	284	212	47	15	204
2	14	90	2,239	620	2,893	1,678	129	313	371	9	1,220
602	158	156	4,369	643	1,097	636	699	2,046	151	187	115
3,137	828	773	18,084	920	1,303	843	3,308	1,241	531	1,164	333
1,838	485	453	10,597	539	763	494	1,938	727	311	682	195
116	80	36	3,242	181	1,048	608	44	25	55	968	39
703	259	275	6,078	681	1,942	1,127	744	399	101	177	44
211	58	40	1,440	60	165	96	247	207	23	59	871
120	47	42	1,177	99	791	458	126	110	78	930	670
198	32	26	1,325	146	332	192	159	451	1,917	3,336	977
144	151	231	1,908	542	1,942	1,126	109	100	172	574	386
563	293	449	3,656	1,435	5,178	3,003	395	374	665	578	348
10	1	7	238	563	1,518	880	38	44	5	3	25
499	252	515	4,633	945	2,025	1,175	262	932	522	1,582	268
162	0	7	1,383	4	9	5	166	226	54	63	1
3	0	10	208	4	105	61	11	17	1	21	12
27	2	24	287	75	105	61	2	4	33	10	34
155	154	16	616	254	248	144	173	73	3	64	67
-	-	-	-	-	-	-	-	-	-	-	-

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Table A4.2 Domestic Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	-	3	0	0	7
Mining and quarrying	c2	-	-	1	133	-
Food, beverages, and tobacco	c3	12	102	9	60	52
Textiles and textile products	c4	1	2	1	11	31
Leather, leather products, and footwear	c5	4	2	7	11	159
Wood and products of wood and cork	c6	0	-	2	3	6
Pulp, paper, paper products, printing, and publishing	c7	277	598	71	550	1,846
Coke, refined petroleum, and nuclear fuel	c8	26	15	44	521	517
Chemicals and chemical products	c9	2	45	16	118	406
Rubber and plastics	c10	3	115	30	63	107
Other nonmetallic minerals	c11	0	0	45	12	83
Basic metals and fabricated metal	c12	16	161	31	51	42
Machinery, nec	c13	15	0	0	163	-
Electrical and optical equipment	c14	270	14	13	234	99
Transport equipment	c15	38	130	27	234	35
Manufacturing, nec; recycling	c16	34	42	9	75	37
Electricity, gas, and water supply	c17	237	211	47	238	366
Construction	c18	974	490	1,995	740	1,683
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	166	222	24	661	828
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	497	530	176	951	702
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	291	310	103	557	412
Hotels and restaurants	c22	147	56	16	190	4,855
Inland transport	c23	124	133	22	350	997
Water transport	c24	244	20	5	204	141
Air transport	c25	109	166	41	519	2,184
Other supporting and auxiliary transport activities; activities of travel agencies	c26	34	13	4	55	243
Post and telecommunications	c27	5,140	904	68	760	699
Financial intermediation	c28	656	3,288	632	1,572	2,459
Real estate activities	c29	218	79	14	151	17
Renting of M&Eq and other business activities	c30	1,631	1,501	251	1,800	761
Public administration and defense; compulsory social security	c31	1,233	254	144	160	15
Education	c32	35	195	0	24	110
Health and social work	c33	8	83	3	36	78
Other community, social, and personal services	c34	387	409	65	836	132
Private households with employed persons	c35	-	-	-	-	-

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Table A4.2 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
105	1,473	23	-	52,038	-	-	21,112	(89)	5,695	<b>182,650</b>
-	-	0	-	-	-	-	827	(3,652)	42,794	<b>118,820</b>
64	2,195	100	-	121,141	-	1,703	-	89	39,531	<b>216,756</b>
28	13	59	-	10,777	-	-	247	4,149	13,599	<b>31,390</b>
53	13	59	-	4,761	-	-	245	(10,231)	8,656	<b>7,287</b>
13	0	28	-	541	-	-	-	(171)	4,670	<b>16,295</b>
4,011	77	124	-	1,504	-	-	33	431	6,859	<b>30,466</b>
254	90	80	-	14,120	-	-	-	1,178	16,670	<b>74,247</b>
759	1,934	537	-	8,127	-	-	-	1,522	16,420	<b>55,463</b>
82	35	72	-	3,433	-	-	133	1,245	15,992	<b>31,975</b>
137	45	76	-	2,296	-	-	10	(427)	1,137	<b>21,536</b>
78	22	131	-	459	-	-	376	(505)	13,427	<b>49,179</b>
27	7	27	-	0	-	-	4,770	36	2,375	<b>13,071</b>
311	160	273	-	8,868	-	-	3,114	(3)	17,919	<b>42,398</b>
38	23	35	-	17,175	-	-	4,560	(0)	7,773	<b>42,917</b>
233	187	183	-	1,859	-	-	1,079	247	7,262	<b>12,210</b>
146	258	226	-	17,673	-	13	-	(112)	96	<b>56,105</b>
770	63	102	-	-	-	-	284,478	7,005	324	<b>316,676</b>
413	222	92	-	23,168	-	41	743	(1)	6	<b>44,331</b>
1,213	1,188	1,067	-	32,752	-	418	6,743	580	10	<b>111,029</b>
711	696	625	-	19,229	-	245	3,951	303	126	<b>65,180</b>
174	24	54	-	54,315	-	-	-	-	3,998	<b>72,266</b>
681	280	107	-	24,692	-	46	1,391	30	209	<b>49,989</b>
79	69	39	-	6,486	-	15	316	11	601	<b>14,839</b>
196	61	82	-	27,860	-	7	235	4	1,769	<b>40,327</b>
68	50	54	-	4,709	-	10	341	6	463	<b>16,778</b>
293	176	418	-	26,955	-	-	-	-	1,289	<b>46,562</b>
461	320	332	-	20,739	-	2,122	-	-	333	<b>59,771</b>
85	15	24	-	32,238	-	-	-	-	233	<b>36,631</b>
444	88	273	-	1,922	-	-	4,134	-	3,537	<b>37,604</b>
37	18	9	-	1,868	-	58,280	41	-	479	<b>65,838</b>
1,427	27	5	-	22,162	-	29,519	-	-	154	<b>54,241</b>
61	1,606	5	-	13,775	-	8,475	-	-	264	<b>25,505</b>
153	94	12,014	-	23,877	-	15	910	8	1,151	<b>44,497</b>
-	-	-	-	-	-	-	-	-	-	-

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Table A4.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Industry								
Imports								
Agriculture, hunting, forestry, and fishing	m1	536	1	4,801	196	10	30	6
Mining and quarrying	m2	11	1,317	32	5	0	2	5
Food, beverages, and tobacco	m3	868	23	3,606	30	70	10	19
Textiles and textile products	m4	77	20	26	3,653	198	17	21
Leather, leather products, and footwear	m5	6	15	3	314	843	1	3
Wood and products of wood and cork	m6	2	2	2	4	1	130	8
Pulp, paper, paper products, printing, and publishing	m7	10	27	132	18	12	11	1,182
Coke, refined petroleum, and nuclear fuel	m8	643	560	204	167	11	58	196
Chemicals and chemical products	m9	1,081	561	380	1,045	84	297	697
Rubber and plastics	m10	42	13	29	59	73	17	62
Other nonmetallic minerals	m11	8	11	8	29	1	7	7
Basic metals and fabricated metal	m12	62	63	45	59	10	35	76
Machinery, nec	m13	191	966	92	121	18	88	178
Electrical and optical equipment	m14	13	101	13	26	3	6	32
Transport equipment	m15	102	129	94	30	13	15	41
Manufacturing, nec; recycling	m16	8	15	12	11	2	2	9
Electricity, gas, and water supply	m17	6	17	23	8	1	1	10
Construction	m18	72	53	8	1	0	0	2
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	5	3	11	13	2	2	5
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	138	73	344	262	49	41	96
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	47	14	135	114	14	13	37
Hotels and restaurants	m22	19	38	68	12	20	7	32
Inland transport	m23	50	44	210	32	8	10	29
Water transport	m24	17	10	47	15	3	16	14
Air transport	m25	16	86	71	17	4	12	17
Other supporting and auxiliary transport activities; activities of travel agencies	m26	10	6	39	9	3	8	11
Post and telecommunications	m27	5	7	11	4	1	2	7
Financial intermediation	m28	33	39	20	7	3	3	10
Real estate activities	m29	1	2	1	1	0	0	1
Renting of M&Eq and other business activities	m30	32	327	39	13	4	4	30
Public administration and defense; compulsory social security	m31	18	32	19	4	1	0	8
Education	m32	2	3	2	1	0	0	3
Health and social work	m33	2	8	4	2	0	0	11
Other community, social, and personal services	m34	54	12	36	10	2	2	11
Private households with employed persons	m35	0	0	0	0	0	0	0
Total intermediate consumption	r60	29,768	29,902	133,468	18,296	4,036	9,181	19,211
Taxes less subsidies on products	r99	2,182	1,815	2,584	439	85	230	402
Cif/fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	150,701	87,103	80,704	12,656	3,167	6,884	10,852
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	182,650	118,820	216,756	31,390	7,287	16,295	30,466

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Table A4.2 Imports Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
1	121	477	3	3	0	1	0	15	0	35	0	1
4,615	1,129	130	627	1,503	11	36	6	20	884	2,542	8	25
15	146	50	10	26	4	18	7	8	4	70	6	16
2	61	54	8	54	2	10	19	118	7	276	83	111
0	5	4	1	13	1	5	3	21	4	34	1	35
2	6	5	4	11	2	6	2	22	0	290	1	7
7	39	20	11	13	2	56	9	22	1	162	69	293
509	552	206	216	365	8	81	110	65	1,921	5,349	468	1,987
106	5,007	3,406	504	1,388	74	859	177	335	75	3,147	69	182
11	56	526	10	80	96	177	172	76	3	1,607	95	260
25	31	11	175	30	11	27	15	6	12	1,245	2	3
109	69	54	247	2,130	205	272	302	267	24	12,987	74	125
139	101	86	98	252	2,961	1,289	277	138	123	1,296	168	16
13	68	25	40	511	324	6,106	553	116	131	2,113	663	74
89	54	48	30	113	131	169	2,196	31	25	714	211	166
6	20	12	3	12	15	29	12	16	3	96	8	20
30	20	9	16	128	4	12	8	3	15	47	22	32
47	8	1	13	14	4	3	1	1	7	57	11	46
4	8	7	3	8	7	21	8	2	1	31	1	2
166	181	126	57	169	138	326	142	30	49	735	19	53
31	63	46	24	59	55	125	61	12	9	229	6	13
9	28	14	36	50	3	25	22	13	6	524	34	212
162	42	25	20	48	18	34	18	8	23	146	6	19
7	17	8	8	15	7	25	9	3	3	55	1	45
13	14	10	7	20	7	30	15	6	5	127	10	103
3	9	7	5	10	3	11	9	3	1	38	3	16
2	6	1	2	5	2	7	3	3	5	40	9	42
10	12	6	2	6	3	4	9	3	5	66	33	85
0	1	1	1	2	0	1	1	0	0	11	23	62
126	32	10	38	44	12	34	33	11	31	622	86	170
25	11	7	4	16	1	1	11	1	4	107	4	8
1	2	0	1	2	2	1	1	0	1	23	1	10
1	9	1	2	11	1	5	3	0	3	35	10	13
19	18	3	4	8	6	17	12	7	4	53	17	37
0	0	0	0	0	0	0	0	0	0	0	0	0
<b>47,883</b>	<b>34,858</b>	<b>24,341</b>	<b>13,695</b>	<b>32,003</b>	<b>9,458</b>	<b>29,238</b>	<b>21,536</b>	<b>7,301</b>	<b>40,977</b>	<b>193,845</b>	<b>13,690</b>	<b>34,604</b>
907	674	388	279	620	173	541	546	153	637	3,862	551	1,340
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
25,457	19,930	7,246	7,561	16,556	3,441	12,619	20,836	4,756	14,491	118,968	30,091	75,085
-	-	-	-	-	-	-	-	-	-	-	-	-
<b>74,247</b>	<b>55,463</b>	<b>31,975</b>	<b>21,536</b>	<b>49,179</b>	<b>13,071</b>	<b>42,398</b>	<b>42,917</b>	<b>12,210</b>	<b>56,105</b>	<b>316,676</b>	<b>44,331</b>	<b>111,029</b>

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Table A4.2 Imports Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	1	548	0	2	9	0
Mining and quarrying	m2	14	2	38	14	32	3
Food, beverages, and tobacco	m3	9	2,006	1	71	63	5
Textiles and textile products	m4	69	20	2	2	1	6
Leather, leather products, and footwear	m5	20	3	0	1	0	3
Wood and products of wood and cork	m6	4	1	1	0	1	0
Pulp, paper, paper products, printing, and publishing	m7	169	12	3	1	3	3
Coke, refined petroleum, and nuclear fuel	m8	1,138	94	3,522	1,236	2,887	61
Chemicals and chemical products	m9	105	33	76	30	56	3
Rubber and plastics	m10	155	13	131	8	71	11
Other nonmetallic minerals	m11	3	1	10	2	5	0
Basic metals and fabricated metal	m12	73	10	30	11	15	1
Machinery, nec	m13	9	2	9	2	11	8
Electrical and optical equipment	m14	42	3	128	9	9	10
Transport equipment	m15	96	68	502	56	688	14
Manufacturing, nec; recycling	m16	11	3	5	14	17	0
Electricity, gas, and water supply	m17	19	8	3	6	3	4
Construction	m18	26	3	5	6	1	17
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	2	3	3	1	2	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	29	86	49	52	43	9
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	15	37	24	7	14	2
Hotels and restaurants	m22	211	20	16	11	162	26
Inland transport	m23	27	48	13	5	10	4
Water transport	m24	6	7	4	40	7	11
Air transport	m25	63	17	13	21	128	65
Other supporting and auxiliary transport activities; activities of travel agencies	m26	10	8	17	45	76	36
Post and telecommunications	m27	23	3	3	5	14	8
Financial intermediation	m28	48	8	5	15	18	10
Real estate activities	m29	36	2	2	0	0	1
Renting of M&Eq and other business activities	m30	99	22	39	24	45	16
Public administration and defense; compulsory social security	m31	5	14	17	5	8	1
Education	m32	7	1	2	0	3	1
Health and social work	m33	8	1	1	4	3	4
Other community, social, and personal services	m34	44	35	8	2	7	16
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	20,315	38,665	20,909	9,830	21,260	6,503
Taxes less subsidies on products	r99	786	905	602	193	420	173
Cif/fob adjustments on exports	r61	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-
Value added at basic prices	r64	44,078	32,696	28,478	4,815	18,646	10,103
International transport margins		-	-	-	-	-	-
Output at basic prices	r69	65,180	72,266	49,989	14,839	40,327	16,778

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Table A4.2 Imports Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	1	0	0	1	9	108	2	-	1,198	-
1	1	0	29	4	5	3	3	-	104	-
2	14	1	9	11	17	279	17	-	4,080	-
2	6	2	21	59	58	27	120	-	639	-
2	0	3	1	59	15	2	6	-	627	-
0	1	0	1	2	3	1	2	-	19	-
25	66	5	62	325	458	9	17	-	341	-
15	34	13	277	289	146	59	59	-	7,179	-
3	37	9	80	230	568	324	230	-	2,254	-
2	46	9	31	40	35	14	47	-	803	-
0	1	4	9	8	13	5	7	-	40	-
8	68	15	30	19	58	13	49	-	178	-
29	4	1	273	5	56	16	54	-	128	-
381	24	9	313	92	348	203	365	-	10,158	-
19	49	7	101	67	24	14	23	-	1,139	-
8	8	1	15	8	42	32	35	-	427	-
3	1	0	8	4	5	25	11	-	16	-
16	6	17	12	27	12	1	2	-	4	-
1	1	0	2	1	2	1	1	-	43	-
10	21	5	29	27	41	36	40	-	691	-
3	6	3	12	18	7	10	5	-	309	-
28	21	51	50	762	31	7	12	-	2,195	-
3	6	5	13	11	13	11	5	-	483	-
5	4	1	7	16	3	2	3	-	100	-
14	34	9	61	266	26	8	12	-	587	-
3	4	1	7	8	3	2	2	-	135	-
123	25	1	18	17	8	4	11	-	200	-
12	44	4	26	28	6	10	6	-	301	-
9	4	1	6	1	4	1	1	-	81	-
132	147	22	168	55	61	8	24	-	165	-
89	22	8	14	10	7	10	3	-	32	-
4	22	0	3	16	122	2	1	-	52	-
2	8	0	5	11	18	180	3	-	131	-
19	27	5	87	16	9	3	181	-	655	-
0	0	0	0	0	0	0	0	-	0	-
<b>13,801</b>	<b>10,856</b>	<b>4,129</b>	<b>13,823</b>	<b>22,624</b>	<b>15,838</b>	<b>12,958</b>	<b>18,692</b>	-	<b>637,010</b>	-
528	720	454	425	832	674	314	498	-	7,384	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
32,233	48,194	32,048	23,356	42,381	37,729	12,233	25,307	-	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>46,562</b>	<b>59,771</b>	<b>36,631</b>	<b>37,604</b>	<b>65,838</b>	<b>54,241</b>	<b>25,505</b>	<b>44,497</b>	-	<b>644,394</b>	-

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Table A4.2 Imports Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	1	5	2	-	8,125
Mining and quarrying	m2	0	37	2	-	13,199
Food, beverages, and tobacco	m3	55	14	(2)	-	11,658
Textiles and textile products	m4	0	28	1	-	5,879
Leather, leather products, and footwear	m5	0	2	2	-	2,061
Wood and products of wood and cork	m6	0	11	(0)	-	551
Pulp, paper, paper products, printing, and publishing	m7	0	11	2	-	3,608
Coke, refined petroleum, and nuclear fuel	m8	1	5	11	-	30,700
Chemicals and chemical products	m9	0	73	34	-	23,623
Rubber and plastics	m10	0	40	(5)	-	4,914
Other nonmetallic minerals	m11	0	19	27	-	1,819
Basic metals and fabricated metal	m12	0	435	19	-	18,248
Machinery, nec	m13	0	8,054	234	-	17,490
Electrical and optical equipment	m14	0	3,719	454	-	27,202
Transport equipment	m15	0	3,823	44	-	11,137
Manufacturing, nec; recycling	m16	1	280	38	-	1,256
Electricity, gas, and water supply	m17	0	11	1	-	540
Construction	m18	0	14	1	-	519
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	30	2	-	240
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	3	552	55	-	4,972
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	159	3	-	1,740
Hotels and restaurants	m22	1	1	2	-	4,779
Inland transport	m23	2	52	(22)	-	1,643
Water transport	m24	0	7	217	-	766
Air transport	m25	1	5	0	-	1,921
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	7	0	-	572
Post and telecommunications	m27	3	6	1	-	634
Financial intermediation	m28	6	4	0	-	911
Real estate activities	m29	0	1	0	-	259
Renting of M&Eq and other business activities	m30	22	625	3	-	3,375
Public administration and defense; compulsory social security	m31	156	4	1	-	687
Education	m32	61	5	0	-	359
Health and social work	m33	54	4	0	-	555
Other community, social, and personal services	m34	15	6	2	-	1,467
Private households with employed persons	m35	1	0	0	-	2
Total intermediate consumption	r60	101,293	357,837	2,783	235,820	2,312,238
Taxes less subsidies on products	r99	1,218	4,391	257	-	39,182
Cif/fob adjustments on exports	r61	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-
Value added at basic prices	r64	-	-	-	-	1,101,402
International transport margins		-	-	-	-	-
Output at basic prices	r69	102,511	362,228	3,041	235,820	3,452,823

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

# APPENDIX 5: INPUT-OUTPUT TABLES FOR 2010 AND 2017—LAO PEOPLE'S DEMOCRATIC REPUBLIC

## A5



**Table A5.1: Lao People's Democratic Republic Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	101	1	364	1	0	60	2
Mining and quarrying	c2	0	43	1	0	0	0	0
Food, beverages, and tobacco	c3	18	1	59	–	–	0	0
Textiles and textile products	c4	2	0	0	29	6	0	0
Leather, leather products, and footwear	c5	0	0	0	6	1	0	0
Wood and products of wood and cork	c6	1	0	3	1	0	15	1
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	0	0	1	0
Coke, refined petroleum, and nuclear fuel	c8	4	8	1	0	0	0	0
Chemicals and chemical products	c9	2	5	1	0	0	0	0
Rubber and plastics	c10	1	2	0	0	0	0	0
Other nonmetallic minerals	c11	0	1	1	–	–	–	–
Basic metals and fabricated metal	c12	0	1	1	0	0	0	0
Machinery, nec	c13	0	0	0	0	0	0	0
Electrical and optical equipment	c14	0	0	0	0	0	0	0
Transport equipment	c15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	0	1	0	0	0	0	0
Electricity, gas, and water supply	c17	2	36	4	1	0	1	0
Construction	c18	0	1	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	4	6	11	3	1	1	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	6	9	15	4	1	2	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	18	29	49	12	2	5	0
Hotels and restaurants	c22	0	0	0	0	0	0	0
Inland transport	c23	2	8	8	1	0	1	0
Water transport	c24	0	2	2	0	0	0	0
Air transport	c25	0	1	1	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	1	1	0	0	0	0
Post and telecommunications	c27	1	0	0	0	0	0	0
Financial intermediation	c28	3	14	2	2	0	2	0
Real estate activities	c29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	c30	0	1	1	0	0	0	0
Public administration and defense; compulsory social security	c31	–	0	–	–	–	–	–
Education	c32	0	0	0	–	–	–	–
Health and social work	c33	–	–	–	–	–	–	–
Other community, social, and personal services	c34	–	–	–	–	–	–	–
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A5.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
2	1	1	0	0	0	0	0	14	0	4	0	0
1	1	0	17	0	0	0	0	0	9	22	–	–
0	0	0	0	–	–	–	–	0	–	–	0	0
0	0	0	0	0	0	0	0	1	0	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0	1	0	0	0	0	6	0	10	2	1
0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0	1	0	0	0	0	0	1	7	1	1
1	0	0	0	0	0	0	0	0	1	4	1	1
0	0	0	0	0	0	0	0	0	0	2	0	0
0	0	0	11	0	0	0	0	0	0	110	0	0
0	0	0	0	1	0	0	0	0	0	4	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	1	0	0	0
0	0	0	3	0	0	0	0	0	14	2	4	3
–	–	–	–	0	0	0	0	0	0	11	1	1
1	0	0	1	1	0	0	0	1	1	14	1	1
1	0	0	1	1	0	0	0	1	2	20	2	2
2	1	1	4	4	0	0	0	3	6	64	7	6
0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	1	2	1	0	0	0	1	2	39	15	12
0	0	0	0	0	0	0	0	0	0	8	3	2
0	0	0	0	0	0	0	0	0	0	4	2	1
0	0	0	0	0	0	0	0	0	0	4	1	1
0	0	0	0	0	0	0	0	0	1	1	3	3
2	1	1	2	0	0	0	0	1	3	18	25	21
0	0	0	0	0	0	0	0	0	0	0	4	3
1	0	0	0	0	0	0	0	0	0	3	2	2
–	–	–	–	–	–	–	–	–	–	–	–	–
0	0	0	–	0	0	0	0	0	–	–	0	0
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	0	0
–	–	–	–	–	–	–	–	–	–	–	–	–

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Table A5.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	1	8	–	–	–	–
Mining and quarrying	c2	–	–	–	–	–	–
Food, beverages, and tobacco	c3	0	17	0	0	0	0
Textiles and textile products	c4	1	0	0	0	0	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0
Wood and products of wood and cork	c6	5	1	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	4	0	7	0	0	0
Chemicals and chemical products	c9	2	0	4	0	0	0
Rubber and plastics	c10	1	0	2	0	0	0
Other nonmetallic minerals	c11	0	0	0	0	0	0
Basic metals and fabricated metal	c12	1	0	1	0	0	0
Machinery, nec	c13	0	0	0	0	0	0
Electrical and optical equipment	c14	0	0	0	0	0	0
Transport equipment	c15	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	1	0	1	0	0	0
Electricity, gas, and water supply	c17	13	2	0	0	0	0
Construction	c18	3	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	5	2	5	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	7	2	6	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	23	7	21	1	1	0
Hotels and restaurants	c22	1	0	0	0	0	0
Inland transport	c23	50	2	10	1	0	0
Water transport	c24	10	0	2	0	0	0
Air transport	c25	5	0	1	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	5	0	1	0	0	0
Post and telecommunications	c27	11	0	1	0	0	0
Financial intermediation	c28	86	7	10	1	0	0
Real estate activities	c29	13	1	0	0	0	0
Renting of M&Eq and other business activities	c30	7	0	1	0	0	0
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–
Education	c32	0	0	0	0	0	0
Health and social work	c33	–	–	–	–	–	–
Other community, social, and personal services	c34	0	0	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–

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Table A5.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
0	-	-	0	-	1	-	0	-	1,452	-
-	-	-	0	-	-	-	1	-	3	-
-	-	-	0	-	0	0	0	-	701	-
0	-	-	0	1	0	0	0	-	63	-
0	-	-	0	0	0	0	0	-	12	-
7	2	-	0	11	0	0	1	-	16	-
0	0	-	0	0	0	0	0	-	1	-
0	1	0	0	3	0	0	0	-	22	-
0	0	0	0	2	0	0	0	-	13	-
0	0	0	0	1	0	0	0	-	5	-
1	-	1	0	1	-	-	1	-	3	-
0	0	0	0	0	0	0	0	-	12	-
0	0	0	0	0	0	0	0	-	0	-
0	0	0	0	0	0	0	0	-	1	-
0	0	0	0	0	0	0	0	-	1	-
0	0	0	0	1	0	0	0	-	23	-
1	2	1	0	11	0	0	1	-	39	-
0	0	4	0	7	0	0	0	-	10	-
1	0	0	0	5	0	0	0	-	113	-
1	1	0	0	7	0	0	0	-	157	-
4	2	1	0	24	1	1	1	-	511	-
0	0	0	0	2	0	0	0	-	97	-
3	9	1	3	35	1	0	1	-	11	-
1	2	0	1	7	0	0	0	-	2	-
0	1	0	0	4	0	0	0	-	1	-
0	1	0	0	3	0	0	0	-	1	-
21	4	-	1	21	1	0	1	-	122	-
2	240	2	1	37	1	0	2	-	176	-
0	4	1	0	3	1	0	0	-	144	-
1	3	0	1	6	0	0	0	-	11	-
-	-	-	0	2	0	-	0	-	1	-
0	0	-	0	0	0	-	0	-	3	-
-	-	-	-	-	-	-	-	-	2	-
0	0	-	0	1	0	-	0	-	66	-
-	-	-	-	-	-	-	-	-	43	-

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Table A5.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Domestic</b>						
Agriculture, hunting, forestry, and fishing	c1	–	–	–	102	<b>2,115</b>
Mining and quarrying	c2	–	–	–	807	<b>906</b>
Food, beverages, and tobacco	c3	–	–	–	66	<b>864</b>
Textiles and textile products	c4	–	–	–	64	<b>168</b>
Leather, leather products, and footwear	c5	–	–	–	13	<b>33</b>
Wood and products of wood and cork	c6	–	–	–	94	<b>182</b>
Pulp, paper, paper products, printing, and publishing	c7	–	–	–	3	<b>7</b>
Coke, refined petroleum, and nuclear fuel	c8	–	–	–	3	<b>67</b>
Chemicals and chemical products	c9	–	–	–	1	<b>40</b>
Rubber and plastics	c10	–	–	–	1	<b>16</b>
Other nonmetallic minerals	c11	–	–	–	1	<b>132</b>
Basic metals and fabricated metal	c12	–	40	–	0	<b>63</b>
Machinery, nec	c13	–	0	–	0	<b>0</b>
Electrical and optical equipment	c14	–	5	–	9	<b>16</b>
Transport equipment	c15	–	2	–	0	<b>3</b>
Manufacturing, nec; recycling	c16	–	49	–	3	<b>81</b>
Electricity, gas, and water supply	c17	–	–	–	175	<b>317</b>
Construction	c18	–	987	–	3	<b>1,029</b>
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	63	–	17	<b>260</b>
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	88	–	23	<b>361</b>
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	286	–	76	<b>1,172</b>
Hotels and restaurants	c22	–	–	–	1	<b>103</b>
Inland transport	c23	–	–	–	34	<b>258</b>
Water transport	c24	–	–	–	7	<b>51</b>
Air transport	c25	–	–	–	4	<b>27</b>
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	–	3	<b>25</b>
Post and telecommunications	c27	–	–	–	22	<b>214</b>
Financial intermediation	c28	44	–	–	3	<b>711</b>
Real estate activities	c29	–	–	–	1	<b>176</b>
Renting of M&Eq and other business activities	c30	–	–	–	0	<b>39</b>
Public administration and defense; compulsory social security	c31	732	–	–	13	<b>748</b>
Education	c32	49	–	–	0	<b>52</b>
Health and social work	c33	15	–	–	0	<b>18</b>
Other community, social, and personal services	c34	–	–	–	0	<b>68</b>
Private households with employed persons	c35	–	–	–	–	<b>43</b>

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Table A5.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Industry								
Imports								
Agriculture, hunting, forestry, and fishing	m1	1	0	8	0	0	0	0
Mining and quarrying	m2	0	0	0	0	0	0	0
Food, beverages, and tobacco	m3	5	0	15	0	0	0	0
Textiles and textile products	m4	1	0	0	9	2	0	0
Leather, leather products, and footwear	m5	0	0	0	2	0	0	0
Wood and products of wood and cork	m6	0	0	1	0	0	4	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	55	78	15	6	1	5	0
Chemicals and chemical products	m9	0	0	0	0	0	0	0
Rubber and plastics	m10	0	0	0	0	0	0	0
Other nonmetallic minerals	m11	0	1	0	0	0	0	0
Basic metals and fabricated metal	m12	6	37	22	1	0	2	0
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	1	4	3	0	0	0	0
Transport equipment	m15	0	2	1	0	0	0	0
Manufacturing, nec; recycling	m16	0	0	0	0	0	0	0
Electricity, gas, and water supply	m17	0	5	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	1	0	0	1	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	1	0	0	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	0	0	0
Financial intermediation	m28	0	0	0	0	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	238	298	592	80	16	105	4
Taxes less subsidies on products	r99	45	19	18	4	1	4	0
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	1,832	589	253	84	16	73	3
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	2,115	906	864	168	33	182	7

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Table A5.1 Import Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0	0	0
Mining and quarrying	m2	0	0	0	0	0	0	0
Food, beverages, and tobacco	m3	0	0	0	0	0	0	0
Textiles and textile products	m4	0	0	0	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	14	7	4	9	3	0	1
Chemicals and chemical products	m9	0	0	0	0	0	0	0
Rubber and plastics	m10	0	0	0	0	0	0	0
Other nonmetallic minerals	m11	0	0	0	6	0	0	0
Basic metals and fabricated metal	m12	1	0	0	3	20	0	4
Machinery, nec	m13	0	0	0	0	0	0	2
Electrical and optical equipment	m14	0	0	0	0	2	0	0
Transport equipment	m15	0	0	0	0	1	0	1
Manufacturing, nec; recycling	m16	0	0	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	0	0	0
Financial intermediation	m28	0	0	0	0	0	0	1
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	–	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	–	–	–	0	0	–
Total intermediate consumption	r60	34	17	11	65	37	0	12
Taxes less subsidies on products	r99	1	1	0	3	1	0	0
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	32	22	5	63	25	0	4
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	67	40	16	132	63	0	16

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Table A5.1 Import Industry *continued*

				Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	c19	c20	c21	c22	c23	c24	c25	c26
c15	c16	c17	c18								
Imports											
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	3	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	3	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	3	9	83	12	8	42	4	21	31	17	15
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	72	0	0	0	0	0	0	0	0
1	5	9	139	13	7	43	0	19	1	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	1	1	16	2	1	5	0	2	0	0	0
0	0	0	7	1	0	2	0	1	0	0	0
0	0	1	0	0	0	0	0	0	0	0	0
0	0	1	0	0	0	2	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	5	2	1	4	3	3	0
0	0	0	0	0	0	0	0	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2	1	1	3	0	1	0	0	0
0	0	0	0	0	1	0	0	0	3	0	1
0	0	0	0	0	0	0	0	0	1	1	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0	0	0	0
0	0	0	1	1	1	2	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
3	39	66	678	105	87	362	60	122	44	24	19
0	2	7	22	6	8	25	2	5	1	1	1
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	41	244	329	150	267	786	41	130	6	3	6
-	-	-	-	-	-	-	-	-	-	-	-
3	81	317	1,029	260	361	1,172	103	258	51	27	25

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Table A5.1 Import Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0
Mining and quarrying	m2	–	–	–	0	–
Food, beverages, and tobacco	m3	0	0	0	0	0
Textiles and textile products	m4	0	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	1	1	0	0	2
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	2	10	0	1	29
Chemicals and chemical products	m9	0	0	0	0	0
Rubber and plastics	m10	0	0	0	0	0
Other nonmetallic minerals	m11	1	0	0	0	0
Basic metals and fabricated metal	m12	5	3	1	1	12
Machinery, nec	m13	0	0	0	0	0
Electrical and optical equipment	m14	1	0	0	0	1
Transport equipment	m15	0	0	0	0	1
Manufacturing, nec; recycling	m16	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	1
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	1	0	0	11
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	2
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	0	1	0	0	2
Water transport	m24	0	0	0	0	2
Air transport	m25	0	0	0	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0
Post and telecommunications	m27	1	0	0	0	1
Financial intermediation	m28	0	11	0	0	1
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	0	0	0	–	0
Total intermediate consumption	r60	59	302	15	10	263
Taxes less subsidies on products	r99	5	15	4	1	16
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	150	394	157	28	470
International transport margins		–	–	–	–	–
Output at basic prices	r69	214	711	176	39	748

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Table A5.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
0	0	0	–	6	–	0	0	0	–	16
–	–	0	–	0	–	–	–	–	–	1
0	0	0	–	26	–	0	0	0	–	50
0	0	0	–	5	–	0	0	0	–	18
0	0	0	–	1	–	–	0	–	–	4
0	0	0	–	1	–	0	0	0	–	18
0	0	0	–	0	–	0	0	0	–	1
1	3	3	–	66	–	0	0	0	–	558
0	0	0	–	0	–	0	0	0	–	2
0	0	0	–	0	–	0	0	0	–	0
0	0	0	–	0	–	0	0	0	–	82
0	0	1	–	106	–	0	158	0	–	621
0	0	0	–	2	–	0	4	0	–	9
0	0	0	–	11	–	0	17	0	–	69
0	0	0	–	8	–	0	12	0	–	39
0	0	0	–	4	–	0	3	0	–	10
0	0	0	0	1	–	0	0	0	–	13
0	0	0	0	0	–	0	4	0	–	6
0	0	0	0	0	–	0	0	0	–	0
0	0	0	0	8	–	0	1	0	–	47
0	0	0	0	1	–	0	0	0	–	7
0	0	0	0	0	–	0	0	0	–	0
0	0	0	0	0	–	0	0	0	–	12
0	0	0	–	0	–	–	0	(0)	–	9
0	0	0	–	3	–	–	0	0	–	8
0	0	0	–	0	–	0	0	0	–	2
0	0	0	0	2	–	0	0	0	–	6
0	0	0	0	3	–	0	1	0	–	26
0	0	0	0	0	–	0	0	0	–	0
0	0	0	–	0	–	0	0	0	–	1
0	0	0	–	0	–	–	0	–	–	0
0	0	0	0	0	–	0	0	0	–	0
0	0	0	–	0	–	0	0	0	–	0
0	0	0	–	3	–	0	0	0	–	3
0	–	–	–	0	–	0	0	0	–	0
10	6	17	0	4,096	–	840	1,721	0	1,548	12,003
1	0	2	–	89	–	18	37	–	–	363
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
41	12	49	43	–	–	–	–	–	–	6,347
–	–	–	–	–	–	–	–	–	–	–
52	18	68	43	4,185	–	858	1,758	0	1,548	18,713

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

**Table A5.2: Lao People's Democratic Republic Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	110	1	471	2	0	78	2
Mining and quarrying	c2	0	407	9	1	0	1	0
Food, beverages, and tobacco	c3	22	1	85	–	–	0	0
Textiles and textile products	c4	1	0	0	19	4	0	0
Leather, leather products, and footwear	c5	0	0	0	4	1	0	0
Wood and products of wood and cork	c6	1	0	3	1	0	14	0
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	8	14	2	1	0	1	0
Chemicals and chemical products	c9	4	7	1	1	0	1	0
Rubber and plastics	c10	2	3	1	0	0	0	0
Other nonmetallic minerals	c11	0	2	2	–	–	–	–
Basic metals and fabricated metal	c12	1	11	6	0	0	1	0
Machinery, nec	c13	0	0	0	0	0	0	0
Electrical and optical equipment	c14	0	1	1	0	0	0	0
Transport equipment	c15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	2	5	2	2	0	0	0
Electricity, gas, and water supply	c17	2	36	6	1	0	1	0
Construction	c18	9	58	0	2	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	9	14	30	7	1	3	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	13	19	42	9	2	5	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	43	62	137	30	6	15	0
Hotels and restaurants	c22	0	0	0	0	0	0	0
Inland transport	c23	2	9	10	2	0	2	0
Water transport	c24	1	2	3	0	0	0	0
Air transport	c25	0	1	1	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	1	1	0	0	0	0
Post and telecommunications	c27	1	0	0	0	0	0	0
Financial intermediation	c28	2	12	2	2	0	3	0
Real estate activities	c29	1	0	1	0	0	0	0
Renting of M&Eq and other business activities	c30	2	3	8	1	0	1	0
Public administration and defense; compulsory social security	c31	–	0	–	–	–	–	–
Education	c32	0	0	0	–	–	–	–
Health and social work	c33	–	–	–	–	–	–	–
Other community, social, and personal services	c34	–	–	–	–	–	–	–
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A5.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
1	1	0	0	0	0	0	0	18	0	4	0	0
9	3	2	58	3	0	0	0	1	118	228	–	–
0	0	0	0	–	–	–	–	0	–	–	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	5	0	8	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	0	1	0	0	0	0	0	2	13	1	1
1	0	0	0	0	0	0	0	0	1	7	1	1
0	0	0	0	0	0	0	0	0	1	3	0	0
0	0	0	8	1	0	0	0	1	0	167	0	0
0	0	0	0	4	0	0	0	1	4	36	2	2
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	3	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0	14	4	1	1
0	0	0	1	0	0	0	0	0	18	2	3	2
–	–	–	–	0	0	0	0	0	25	819	22	19
1	0	0	1	2	0	0	0	2	4	33	2	2
1	0	0	1	2	0	0	0	2	5	45	3	3
4	2	1	3	7	0	0	0	8	16	147	10	9
0	0	0	0	0	0	0	0	0	1	1	1	1
2	1	1	1	1	0	0	0	1	3	43	10	9
1	0	0	0	0	0	0	0	0	1	11	3	2
0	0	0	0	0	0	0	0	0	0	6	1	1
0	0	0	0	0	0	0	0	0	0	5	1	1
0	0	0	0	0	0	0	0	0	1	1	2	2
1	0	0	1	0	0	0	0	1	3	16	14	12
0	0	0	0	0	0	0	0	0	0	2	13	11
3	1	1	0	1	0	0	0	0	1	19	9	8
–	–	–	–	–	–	–	–	–	–	–	–	–
0	0	0	–	0	0	0	0	0	–	–	0	0
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	0	0
–	–	–	–	–	–	–	–	–	–	–	–	–

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Table A5.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	1	50	–	–	–	–
Mining and quarrying	c2	–	–	–	–	–	–
Food, beverages, and tobacco	c3	0	115	0	–	0	0
Textiles and textile products	c4	0	1	0	–	0	0
Leather, leather products, and footwear	c5	0	0	0	–	0	0
Wood and products of wood and cork	c6	3	3	0	–	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	–	0	0
Coke, refined petroleum, and nuclear fuel	c8	5	5	8	–	0	0
Chemicals and chemical products	c9	3	2	5	–	0	0
Rubber and plastics	c10	1	1	2	–	0	0
Other nonmetallic minerals	c11	0	1	0	–	0	0
Basic metals and fabricated metal	c12	8	1	3	–	0	0
Machinery, nec	c13	0	0	0	–	0	0
Electrical and optical equipment	c14	1	0	0	–	0	0
Transport equipment	c15	0	0	0	–	0	0
Manufacturing, nec; recycling	c16	5	3	4	–	0	0
Electricity, gas, and water supply	c17	10	13	0	–	0	0
Construction	c18	81	34	1	–	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	8	21	7	–	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	11	29	9	–	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	36	95	30	–	0	0
Hotels and restaurants	c22	4	3	0	–	0	0
Inland transport	c23	38	10	7	–	0	0
Water transport	c24	10	3	2	–	0	0
Air transport	c25	5	1	1	–	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	4	1	1	–	0	0
Post and telecommunications	c27	8	3	0	–	0	0
Financial intermediation	c28	51	34	5	–	0	0
Real estate activities	c29	46	16	1	–	0	0
Renting of M&Eq and other business activities	c30	32	11	4	–	0	0
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–
Education	c32	0	0	0	–	0	0
Health and social work	c33	–	–	–	–	–	–
Other community, social, and personal services	c34	0	2	0	–	0	0
Private households with employed persons	c35	–	–	–	–	–	–

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Table A5.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
0	–	–	0	–	2	–	0	–	1,714	–
–	–	–	0	–	–	–	14	–	124	–
–	–	–	0	–	0	0	0	–	906	–
0	–	–	0	0	0	0	0	–	38	–
0	–	–	0	0	0	0	0	–	8	–
5	1	–	1	9	1	0	2	–	18	–
0	0	–	0	0	0	0	0	–	1	–
0	1	0	0	6	1	3	1	–	27	–
0	0	0	0	4	0	1	1	–	14	–
0	0	0	0	1	0	1	0	–	6	–
2	–	1	1	2	–	–	3	–	40	–
2	0	0	1	5	0	0	1	–	25	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	1	–
0	2	0	1	6	1	3	1	–	41	–
1	1	0	0	13	2	1	4	–	44	–
6	1	81	5	320	43	9	13	–	151	–
2	1	0	1	13	1	1	2	–	122	–
2	1	0	1	18	1	2	2	–	169	–
7	2	1	4	59	5	6	7	–	555	–
0	2	0	9	18	2	0	1	–	942	–
3	6	1	13	42	5	1	3	–	54	–
1	1	0	4	11	1	0	1	–	12	–
0	1	0	2	6	1	0	0	–	7	–
0	1	0	1	5	1	0	0	–	5	–
20	3	–	3	24	3	0	3	–	145	–
2	112	1	5	35	4	0	3	–	281	–
1	12	4	3	14	15	0	5	–	1,077	–
4	10	2	17	44	6	1	3	–	131	–
–	–	–	0	45	1	–	0	–	386	–
0	0	–	0	3	2	–	0	–	255	–
–	–	–	–	–	–	–	–	–	98	–
0	0	–	0	5	0	–	1	–	341	–
–	–	–	–	–	–	–	–	–	1	–

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Table A5.2 Domestic Industry *continued*

			Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry			c38	c39	c40	c41	
Domestic							
Agriculture, hunting, forestry, and fishing	c1		–	–	0	581	3,038
Mining and quarrying	c2		–	–	0	1,890	2,869
Food, beverages, and tobacco	c3		–	–	0	314	1,445
Textiles and textile products	c4		–	–	0	203	269
Leather, leather products, and footwear	c5		–	–	0	38	53
Wood and products of wood and cork	c6		–	–	0	200	277
Pulp, paper, paper products, printing, and publishing	c7		–	–	0	7	10
Coke, refined petroleum, and nuclear fuel	c8		–	–	(0)	8	112
Chemicals and chemical products	c9		–	–	0	8	66
Rubber and plastics	c10		–	–	0	4	26
Other nonmetallic minerals	c11		–	–	0	5	237
Basic metals and fabricated metal	c12		–	10	(0)	7	134
Machinery, nec	c13		–	0	(0)	0	1
Electrical and optical equipment	c14		–	1	(0)	0	12
Transport equipment	c15		–	0	(0)	0	5
Manufacturing, nec; recycling	c16		–	11	(0)	25	135
Electricity, gas, and water supply	c17		–	–	0	1,663	1,826
Construction	c18		–	1,863	(2)	265	3,828
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19		–	9	(0)	70	367
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20		–	12	(0)	96	507
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21		–	39	(0)	296	1,643
Hotels and restaurants	c22		–	–	0	33	1,020
Inland transport	c23		–	–	0	113	390
Water transport	c24		–	–	(1)	12	83
Air transport	c25		–	–	(0)	7	45
Other supporting and auxiliary transport activities; activities of travel agencies	c26		–	–	(0)	12	41
Post and telecommunications	c27		–	–	0	93	312
Financial intermediation	c28		3	–	0	23	631
Real estate activities	c29		–	–	0	1	1,225
Renting of M&Eq and other business activities	c30		–	–	0	4	324
Public administration and defense; compulsory social security	c31		1,896	–	0	94	2,423
Education	c32		186	–	0	28	475
Health and social work	c33		37	–	0	13	148
Other community, social, and personal services	c34		–	–	0	20	370
Private households with employed persons	c35		–	–	0	13	14

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Table A5.2 Imports Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Imports						
Agriculture, hunting, forestry, and fishing	m1	2	0	21	0	0	0	0
Mining and quarrying	m2	0	1	0	0	0	0	0
Food, beverages, and tobacco	m3	5	0	36	0	0	0	0
Textiles and textile products	m4	1	0	0	19	3	0	0
Leather, leather products, and footwear	m5	0	0	0	3	0	0	0
Wood and products of wood and cork	m6	0	0	2	0	0	6	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	53	114	28	9	1	7	0
Chemicals and chemical products	m9	1	0	0	0	0	0	0
Rubber and plastics	m10	0	0	0	0	0	0	0
Other nonmetallic minerals	m11	0	1	1	0	0	0	0
Basic metals and fabricated metal	m12	6	55	47	1	0	2	0
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	1	6	5	0	0	0	0
Transport equipment	m15	0	3	2	0	0	0	0
Manufacturing, nec; recycling	m16	0	0	0	0	0	0	0
Electricity, gas, and water supply	m17	0	5	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1	0	3	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	1	1	0	0	0	0
Water transport	m24	1	0	1	0	0	1	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	1	0	1	0	0	0	0
Financial intermediation	m28	2	4	2	1	0	1	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	312	860	978	120	23	145	5
Taxes less subsidies on products	r99	36	105	35	13	3	18	1
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	2,690	1,904	432	136	27	113	4
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	3,038	2,869	1,445	269	53	277	10

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Table A5.2 Imports Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0	0	0
Mining and quarrying	m2	0	0	0	0	0	0	0
Food, beverages, and tobacco	m3	0	0	0	0	0	0	0
Textiles and textile products	m4	0	0	0	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	22	7	5	13	5	0	0
Chemicals and chemical products	m9	0	0	0	0	0	0	0
Rubber and plastics	m10	0	0	0	0	0	0	0
Other nonmetallic minerals	m11	0	0	0	11	0	0	0
Basic metals and fabricated metal	m12	1	0	0	5	36	0	1
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	3	0	0
Transport equipment	m15	0	0	0	0	2	0	0
Manufacturing, nec; recycling	m16	0	0	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	0	0	0
Financial intermediation	m28	0	1	0	1	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	–	–	–	0	0	–
Total intermediate consumption	r60	54	20	15	107	70	0	2
Taxes less subsidies on products	r99	4	8	3	13	9	0	4
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	54	37	8	116	54	0	6
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	112	66	26	237	134	1	12

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Table A5.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
Imports											
0	0	0	0	0	0	0	1	0	0	0	0
0	0	1	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	17	0	0	0	0
0	0	0	1	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	2	0	8	1	0	1	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	4	39	172	14	6	37	27	20	58	32	26
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	184	0	0	0	0	0	0	0	0
1	7	40	318	15	6	39	3	18	2	1	1
0	0	0	1	0	0	0	0	0	0	0	0
0	1	4	30	2	1	4	0	2	0	0	0
0	0	2	18	1	0	3	0	1	0	0	0
0	0	2	1	0	0	0	0	0	0	0	0
0	0	4	0	0	0	1	1	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	3	8	3	0	3	1	3	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	5	1	1	3	1	1	0	0	0
0	0	1	2	0	1	1	0	1	8	0	1
0	0	0	0	0	0	0	0	0	1	1	0
0	0	0	0	0	0	0	0	0	0	0	1
0	0	2	1	0	0	2	1	1	0	0	1
0	1	3	6	4	2	9	6	2	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2	60	321	2,379	144	114	479	521	139	71	39	31
2	8	29	198	10	13	47	94	46	2	1	1
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
1	66	1,476	1,251	213	380	1,118	404	205	10	4	9
-	-	-	-	-	-	-	-	-	-	-	-
5	135	1,826	3,828	367	507	1,643	1,020	390	83	45	41

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Table A5.2 Imports Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0
Mining and quarrying	m2	0	0	0	0	0
Food, beverages, and tobacco	m3	0	0	0	0	0
Textiles and textile products	m4	0	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	2	0	0	0	4
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	2	3	1	2	48
Chemicals and chemical products	m9	0	0	0	0	0
Rubber and plastics	m10	0	0	0	0	0
Other nonmetallic minerals	m11	1	0	1	0	1
Basic metals and fabricated metal	m12	6	1	2	3	19
Machinery, nec	m13	0	0	0	0	0
Electrical and optical equipment	m14	1	0	0	0	2
Transport equipment	m15	0	0	0	0	1
Manufacturing, nec; recycling	m16	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	1
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	0	1	0	10
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	0	0	0	1	3
Water transport	m24	1	0	0	0	4
Air transport	m25	0	0	0	0	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	1
Post and telecommunications	m27	2	0	0	0	2
Financial intermediation	m28	1	10	1	1	5
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	0	0	0	–	0
Total intermediate consumption	r60	79	173	100	83	814
Taxes less subsidies on products	r99	13	6	3	6	46
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	220	453	1,122	236	1,563
International transport margins		–	–	–	–	–
Output at basic prices	r69	312	631	1,225	324	2,423

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Table A5.2 Imports Industry *continued*

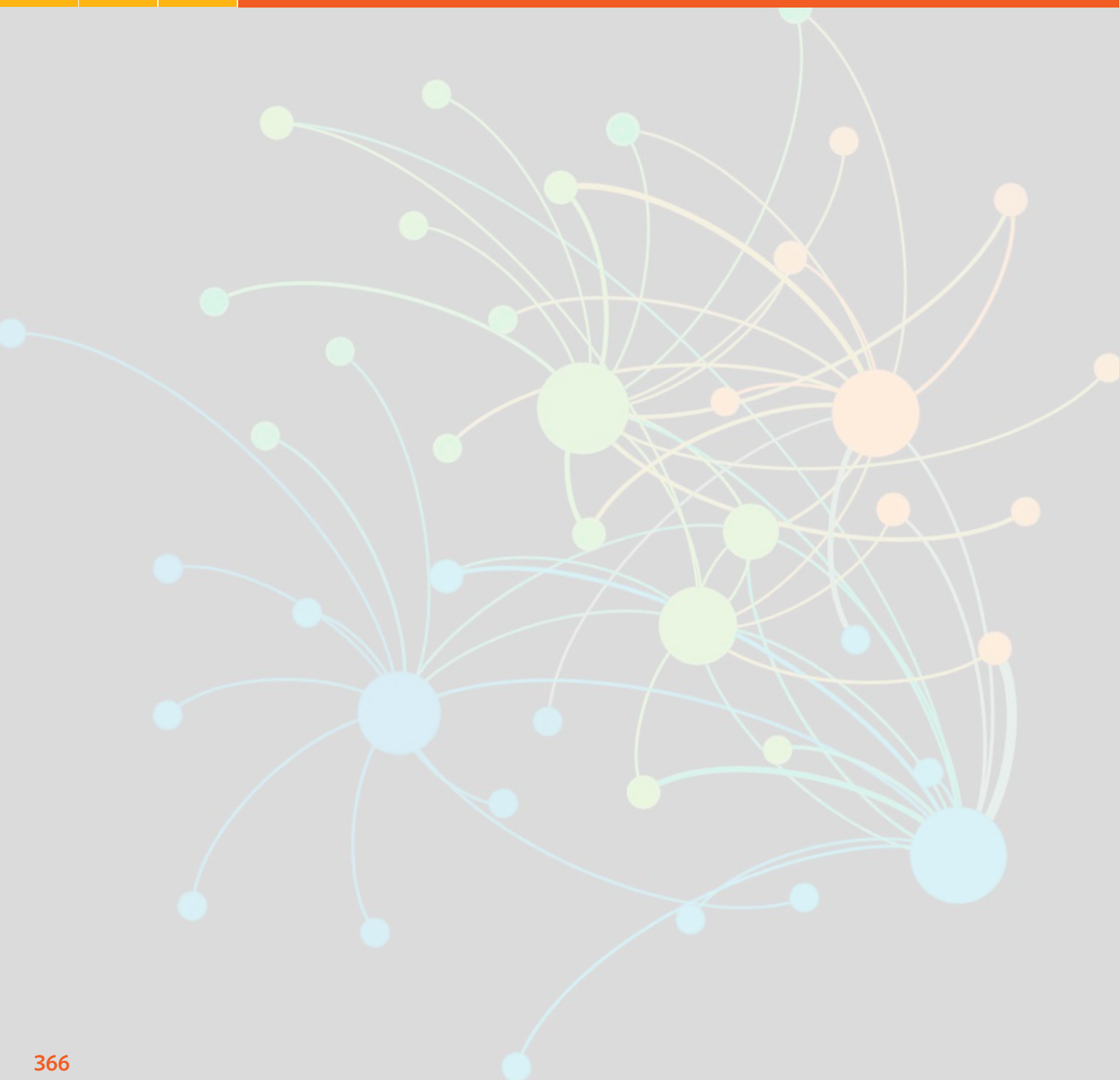
Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
0	0	0	–	69	–	–	0	(0)	–	93
0	0	0	–	0	–	–	–	(0)	–	3
0	0	0	–	267	–	–	0	0	–	326
0	0	1	–	62	–	–	0	2	–	91
0	0	0	–	10	–	–	0	0	–	14
0	0	1	–	9	–	–	0	0	–	41
0	0	0	–	0	–	–	0	0	–	2
4	12	15	–	595	–	–	0	0	–	1,383
0	0	0	–	0	–	–	0	0	–	3
0	0	0	–	0	–	–	0	0	–	0
0	0	2	–	4	–	–	0	0	–	208
1	1	4	–	881	–	–	3	0	–	1,526
0	0	0	–	4	–	–	39	0	–	48
0	0	1	–	79	–	–	1,004	0	–	1,148
0	0	0	–	51	–	–	588	0	–	675
0	0	0	–	25	–	–	263	0	–	295
0	0	0	–	7	–	0	0	0	–	22
0	0	0	–	1	–	0	82	0	–	85
0	0	0	–	0	–	0	0	0	–	0
0	0	0	–	31	–	0	1	0	–	73
0	0	0	–	6	–	0	0	0	–	8
0	0	0	–	0	–	0	0	0	–	0
1	0	0	–	2	–	0	0	0	–	21
0	0	0	–	2	–	–	0	0	–	26
0	0	0	–	4	–	0	0	0	–	11
0	0	0	–	0	–	0	0	0	–	3
1	0	0	–	12	–	0	1	0	–	30
1	0	1	–	34	–	–	3	0	–	103
0	0	0	–	0	–	0	0	0	–	1
0	0	0	–	0	–	0	0	0	–	3
0	0	0	–	0	–	–	0	0	–	1
0	0	0	–	0	–	0	0	0	–	0
0	0	0	–	0	–	0	0	0	–	0
0	0	0	–	35	–	0	0	0	–	35
0	–	–	–	0	–	–	0	0	–	0
108	44	98	–	9,932	–	2,123	3,929	(0)	6,146	30,638
4	5	10	–	1,008	–	–	343	0	–	2,152
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
363	99	263	14	–	–	–	–	–	–	15,049
–	–	–	–	–	–	–	–	–	–	–
475	148	370	14	10,940	–	2,123	4,272	(0)	6,146	47,839

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

# A6

## APPENDIX 6: INPUT-OUTPUT TABLES FOR 2010 AND 2017—MALAYSIA





**Table A6.1: Malaysia Input–Output Table, 2010** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	2,493	1	20,088	69	11	3,054	436
Mining and quarrying	c2	13	277	287	1	0	1	7
Food, beverages, and tobacco	c3	1,598	17	17,478	9	6	11	6
Textiles and textile products	c4	1	2	12	424	9	3	63
Leather, leather products, and footwear	c5	1	0	1	0	8	6	3
Wood and products of wood and cork	c6	78	2	2	1	0	1,117	369
Pulp, paper, paper products, printing, and publishing	c7	1	2	113	6	0	32	652
Coke, refined petroleum, and nuclear fuel	c8	1,685	965	331	12	0	80	38
Chemicals and chemical products	c9	2,262	431	383	248	8	289	249
Rubber and plastics	c10	468	145	1,933	56	9	204	168
Other nonmetallic minerals	c11	93	22	170	2	1	35	31
Basic metals and fabricated metal	c12	106	348	687	28	2	83	157
Machinery, nec	c13	19	68	1	10	0	41	1
Electrical and optical equipment	c14	14	34	15	4	0	4	6
Transport equipment	c15	260	180	8	23	1	93	5
Manufacturing, nec; recycling	c16	15	15	90	53	1	9	13
Electricity, gas, and water supply	c17	241	31	486	85	4	165	91
Construction	c18	284	250	217	6	1	41	23
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	150	45	643	16	1	78	39
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	486	145	2,085	51	4	254	126
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	452	135	1,939	47	3	236	117
Hotels and restaurants	c22	77	3	15	2	0	7	6
Inland transport	c23	403	58	334	10	4	85	33
Water transport	c24	1	46	0	0	0	1	0
Air transport	c25	53	117	18	1	1	22	4
Other supporting and auxiliary transport activities; activities of travel agencies	c26	1	256	465	66	3	360	89
Post and telecommunications	c27	39	46	90	9	1	18	24
Financial intermediation	c28	1,670	357	1,156	59	7	228	108
Real estate activities	c29	16	–	37	7	2	18	11
Renting of M&Eq and other business activities	c30	244	179	216	27	2	126	54
Public administration and defense; compulsory social security	c31	253	50	204	16	3	51	27
Education	c32	0	–	0	0	0	0	0
Health and social work	c33	0	0	0	0	0	0	0
Other community, social, and personal services	c34	2	2	2	0	0	1	1
Private households with employed persons	c35	29	0	27	0	0	0	8

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Table A6.1 Domestic Industry *continued*

Industry		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	3	86	3,698	10	19	10	46
Mining and quarrying	c2	18,639	787	32	1,168	317	22	9
Food, beverages, and tobacco	c3	32	1,674	239	15	24	4	22
Textiles and textile products	c4	1	13	196	7	11	4	28
Leather, leather products, and footwear	c5	0	0	17	1	1	0	1
Wood and products of wood and cork	c6	0	137	18	17	20	58	70
Pulp, paper, paper products, printing, and publishing	c7	2	67	91	59	33	7	59
Coke, refined petroleum, and nuclear fuel	c8	6,950	2,144	222	1,311	364	19	66
Chemicals and chemical products	c9	280	7,621	5,506	395	512	74	510
Rubber and plastics	c10	353	770	11,177	43	140	122	1,019
Other nonmetallic minerals	c11	1	228	120	2,094	1,168	49	939
Basic metals and fabricated metal	c12	28	382	567	736	9,433	604	1,685
Machinery, nec	c13	0	1	23	13	103	139	147
Electrical and optical equipment	c14	2	139	92	11	159	762	7,912
Transport equipment	c15	1	10	39	36	275	521	2,317
Manufacturing, nec; recycling	c16	5	39	36	18	22	6	73
Electricity, gas, and water supply	c17	85	661	1,548	735	791	54	316
Construction	c18	35	81	120	90	70	32	432
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	131	229	370	84	176	36	214
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	424	742	1,200	274	572	115	695
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	395	690	1,116	255	532	107	647
Hotels and restaurants	c22	1	15	29	11	37	4	16
Inland transport	c23	75	161	275	101	171	34	162
Water transport	c24	50	1	0	0	0	0	2
Air transport	c25	7	21	39	17	18	8	28
Other supporting and auxiliary transport activities; activities of travel agencies	c26	78	368	86	397	314	36	253
Post and telecommunications	c27	19	101	97	41	148	95	356
Financial intermediation	c28	306	518	333	226	591	99	714
Real estate activities	c29	2	35	40	25	38	6	42
Renting of M&Eq and other business activities	c30	54	190	289	140	219	68	436
Public administration and defense; compulsory social security	c31	46	111	90	59	124	20	146
Education	c32	0	0	0	0	0	0	0
Health and social work	c33	0	0	0	0	0	0	0
Other community, social, and personal services	c34	0	2	4	2	3	1	4
Private households with employed persons	c35	0	156	74	49	66	19	75

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Table A6.1 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
963	21	2	15	133	262	257	1,182	5	5	4	10
107	102	868	487	0	1	1	1	1	0	1	1
20	3	5	7	241	475	466	3,045	2	1	4	2
171	3	0	3	21	41	40	34	1	0	3	2
4	1	0	0	1	2	2	0	0	0	0	0
100	5	0	1,213	16	31	30	0	0	0	0	1
59	9	0	6	168	331	325	4	7	3	2	27
113	40	1,231	985	409	807	792	203	1,017	504	2,012	327
556	103	100	163	104	206	202	4	8	4	15	154
1,978	91	181	202	204	402	394	189	212	48	132	258
386	3	1	3,846	21	41	40	1	0	3	1	31
3,732	143	481	3,031	36	70	69	139	9	261	6	29
914	14	100	95	21	41	41	67	21	1	1	14
1,397	25	11	478	23	45	44	3	13	5	15	30
7,499	39	239	325	237	467	458	149	100	45	298	78
77	168	0	13	48	94	93	7	52	41	113	84
283	14	1,597	97	37	73	72	651	40	7	23	132
89	4	7	2,181	2	4	4	96	1	1	2	70
287	11	34	182	32	64	63	73	25	19	48	18
930	35	109	590	105	207	203	236	83	61	155	58
865	32	102	549	97	192	189	220	77	56	144	54
24	1	4	33	76	150	147	1,041	38	73	141	77
218	11	63	148	60	118	115	68	129	6	1	27
2	0	1	1	0	1	1	26	71	479	0	370
41	1	9	12	10	20	19	8	233	22	223	1,204
65	5	0	4	70	138	135	2	342	207	350	1,543
92	6	93	75	60	119	116	484	192	18	81	155
353	18	375	324	262	518	508	183	70	244	246	212
45	2	–	142	41	82	80	22	51	54	30	123
420	13	603	204	132	261	256	187	46	49	393	177
98	5	53	199	82	161	158	50	65	93	67	162
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
4	0	7	4	2	4	3	2	1	1	5	4
210	7	0	9	0	0	0	21	0	0	0	0

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Table A6.1 Domestic Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	8	16	25	6	231
Mining and quarrying	c2	0	0	0	0	3
Food, beverages, and tobacco	c3	3	5	3	3	397
Textiles and textile products	c4	7	3	1	1	71
Leather, leather products, and footwear	c5	0	0	0	0	0
Wood and products of wood and cork	c6	1	2	1	1	17
Pulp, paper, paper products, printing, and publishing	c7	355	428	10	126	260
Coke, refined petroleum, and nuclear fuel	c8	140	61	10	83	243
Chemicals and chemical products	c9	50	6	11	9	110
Rubber and plastics	c10	88	63	15	98	136
Other nonmetallic minerals	c11	1	2	5	1	38
Basic metals and fabricated metal	c12	35	122	6	20	468
Machinery, nec	c13	169	3	0	4	23
Electrical and optical equipment	c14	168	9	2	15	231
Transport equipment	c15	432	8	5	65	515
Manufacturing, nec; recycling	c16	24	37	3	90	164
Electricity, gas, and water supply	c17	160	570	24	86	1,265
Construction	c18	548	133	154	98	2,315
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	32	21	2	13	43
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	103	70	8	43	141
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	96	65	7	40	131
Hotels and restaurants	c22	16	969	11	23	654
Inland transport	c23	30	14	14	77	335
Water transport	c24	5	19	1	11	52
Air transport	c25	119	161	18	199	741
Other supporting and auxiliary transport activities; activities of travel agencies	c26	18	201	12	23	735
Post and telecommunications	c27	11,890	1,699	65	480	1,348
Financial intermediation	c28	2,862	9,921	607	308	1,064
Real estate activities	c29	51	188	324	67	1,171
Renting of M&Eq and other business activities	c30	417	415	94	773	1,305
Public administration and defense; compulsory social security	c31	459	1,724	435	116	1,508
Education	c32	0	0	1	0	4
Health and social work	c33	0	180	1	0	141
Other community, social, and personal services	c34	5	7	5	7	68
Private households with employed persons	c35	25	0	7	2	101

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Table A6.1 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
4	4	13	0	6,398	4	0	962	(925)	2,671	<b>42,302</b>
0	0	0	0	29	0	–	3	(43)	10,485	<b>33,607</b>
1	7	136	0	18,384	13	–	19	765	19,583	<b>64,725</b>
2	2	4	0	1,290	1	–	4	(189)	474	<b>2,765</b>
0	0	0	0	134	0	–	0	(14)	46	<b>215</b>
1	1	4	0	1,434	0	–	20	(93)	4,609	<b>9,283</b>
7	7	24	0	769	1	–	314	81	1,110	<b>5,556</b>
6	9	118	6	5,432	1	–	2	(32)	14,158	<b>42,865</b>
4	742	43	11	1,132	5	–	10	135	8,129	<b>30,783</b>
1	52	75	3	3,671	4	–	1,264	392	10,044	<b>36,806</b>
1	1	4	0	360	1	–	46	27	3,006	<b>12,816</b>
9	7	68	4	621	0	–	584	81	4,290	<b>29,168</b>
4	1	51	7	298	0	–	1,368	(7)	2,894	<b>6,713</b>
18	44	115	2	875	–	–	4,421	348	26,071	<b>43,561</b>
18	17	171	21	2,857	3	–	9,259	26	12,812	<b>39,910</b>
7	54	304	1	410	1	–	246	(80)	62	<b>2,506</b>
43	21	250	20	2,412	2	–	78	2	1,745	<b>14,999</b>
53	15	73	0	2,049	2	–	17,074	1	1,923	<b>28,583</b>
0	0	22	1	2,052	0	–	276	40	2,697	<b>8,265</b>
1	0	70	3	5,363	1	–	895	336	6,272	<b>23,249</b>
1	0	65	3	4,988	1	–	833	131	5,770	<b>21,376</b>
11	15	107	0	9,089	12	0	1,454	(0)	2,092	<b>16,481</b>
6	6	75	13	753	0	–	191	18	1,071	<b>5,471</b>
0	0	3	0	817	0	–	0	0	2,658	<b>4,621</b>
10	12	45	3	1,357	1	–	0	(0)	2,430	<b>7,250</b>
4	6	14	0	934	1	–	9	0	2,714	<b>10,305</b>
26	22	560	22	6,780	2	–	7	965	6,323	<b>32,766</b>
36	22	693	20	9,299	5	–	169	(0)	2,994	<b>37,683</b>
16	9	46	–	2,689	2	–	–	226	–	<b>5,740</b>
40	36	914	69	366	0	187	486	(52)	327	<b>10,364</b>
22	13	151	3	7,019	4	23,496	24	0	2,071	<b>39,441</b>
13	0	0	0	1,012	25	1,317	–	0	0	<b>2,377</b>
0	1	4	0	1,406	3	1,547	0	0	0	<b>3,287</b>
54	1	1,896	0	6,353	2	4,739	1,293	0	141	<b>14,633</b>
1	2	2	2	244	0	0	0	(16)	255	<b>1,377</b>

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Table A6.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	391	0	3,126	11	2	494	70
Mining and quarrying	m2	2	45	26	0	0	0	1
Food, beverages, and tobacco	m3	217	2	2,379	1	1	2	1
Textiles and textile products	m4	1	1	6	209	4	2	31
Leather, leather products, and footwear	m5	1	0	2	0	15	11	6
Wood and products of wood and cork	m6	3	0	0	0	0	49	16
Pulp, paper, paper products, printing, and publishing	m7	1	2	97	5	0	28	552
Coke, refined petroleum, and nuclear fuel	m8	410	245	81	3	0	20	9
Chemicals and chemical products	m9	1,071	212	184	120	3	139	118
Rubber and plastics	m10	24	8	99	3	0	10	9
Other nonmetallic minerals	m11	15	4	29	0	0	6	5
Basic metals and fabricated metal	m12	64	211	413	16	1	50	94
Machinery, nec	m13	21	75	2	11	0	45	1
Electrical and optical equipment	m14	15	38	20	5	0	4	7
Transport equipment	m15	220	150	7	19	0	77	4
Manufacturing, nec; recycling	m16	3	9	51	16	0	4	5
Electricity, gas, and water supply	m17	11	2	23	4	0	8	4
Construction	m18	4	4	3	0	0	1	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	1	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	40	0	118	11	2	5	9
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	0	5	0	0	1	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	1	1	1	0	0	0	0
Water transport	m24	16	2	53	9	1	9	8
Air transport	m25	22	17	26	3	1	6	4
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	41	73	10	0	57	14
Post and telecommunications	m27	1	2	3	0	0	1	1
Financial intermediation	m28	34	7	24	1	0	5	2
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	212	159	190	23	2	111	47
Public administration and defense; compulsory social security	m31	5	1	4	0	0	1	1
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	1	0	1	0	0	0	0
Private households with employed persons	m35	17	0	16	0	0	0	5
Total intermediate consumption	r60	16,328	5,467	56,597	1,829	128	7,899	3,989
Taxes less subsidies on products	r99	243	263	76	9	1	13	15
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	25,731	27,877	8,052	928	87	1,371	1,552
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	42,302	33,607	64,725	2,765	215	9,283	5,556

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Table A6.1 Import Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
1	14	594	2	3	2	7	171	3	0	2	21	40
3,078	119	5	179	56	3	1	15	13	55	79	0	0
5	226	32	2	3	1	3	3	0	1	1	34	62
0	7	98	4	6	2	13	88	2	0	1	11	20
0	0	35	3	3	1	1	8	2	0	0	2	4
0	6	1	1	1	3	3	5	0	0	57	1	1
2	57	78	51	28	6	46	53	8	0	5	149	269
1,913	523	55	325	90	5	15	30	9	340	243	108	178
153	3,619	2,625	191	247	36	223	284	65	53	78	54	90
20	39	569	2	8	7	54	108	7	10	13	11	20
0	38	20	357	198	8	144	70	0	0	653	4	7
18	229	342	447	5,713	368	938	2,332	81	299	1,832	22	41
0	1	25	14	113	156	139	1,048	12	119	104	24	42
4	135	89	11	157	749	7,888	1,477	36	12	463	23	83
1	8	33	30	232	448	1,944	6,334	32	200	273	197	386
3	20	18	9	12	3	33	38	77	0	4	19	34
5	31	73	35	38	3	12	15	1	81	4	2	3
1	1	2	1	1	0	5	1	0	0	32	0	0
0	0	1	0	0	0	0	1	0	0	0	0	0
53	83	49	16	32	9	208	44	15	25	53	0	26
1	2	3	1	1	0	1	3	0	0	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
28	26	15	21	31	4	31	11	3	5	8	0	45
3	14	9	6	8	3	25	11	2	4	7	1	21
13	57	13	63	49	6	36	11	1	1	2	11	21
1	4	3	1	5	3	11	4	0	4	3	2	4
7	11	7	5	12	2	13	8	0	8	7	6	10
0	0	0	0	0	0	0	0	0	0	0	0	0
54	165	253	124	193	61	351	397	11	556	179	121	216
1	2	2	1	3	0	2	3	0	1	4	2	3
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0	0	0	0	0
0	6	3	2	3	1	3	8	0	0	0	0	0
0	90	44	30	40	12	32	156	2	0	5	0	0
<b>33,370</b>	<b>23,710</b>	<b>32,878</b>	<b>10,372</b>	<b>23,760</b>	<b>5,038</b>	<b>31,624</b>	<b>34,836</b>	<b>1,319</b>	<b>8,051</b>	<b>19,742</b>	<b>3,575</b>	<b>7,056</b>
89	66	37	23	51	16	111	47	11	65	83	44	151
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
9,406	7,007	3,892	2,421	5,358	1,659	11,826	5,026	1,176	6,884	8,759	4,646	16,042
-	-	-	-	-	-	-	-	-	-	-	-	-
<b>42,865</b>	<b>30,783</b>	<b>36,806</b>	<b>12,816</b>	<b>29,168</b>	<b>6,713</b>	<b>43,561</b>	<b>39,910</b>	<b>2,506</b>	<b>14,999</b>	<b>28,583</b>	<b>8,265</b>	<b>23,249</b>

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Table A6.1 Import Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	41	184	1	1	1	2
Mining and quarrying	m2	0	0	0	0	0	0
Food, beverages, and tobacco	m3	65	414	0	0	1	0
Textiles and textile products	m4	20	17	0	0	2	1
Leather, leather products, and footwear	m5	4	0	0	0	0	0
Wood and products of wood and cork	m6	1	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	288	4	6	2	1	23
Coke, refined petroleum, and nuclear fuel	m8	207	48	256	83	458	82
Chemicals and chemical products	m9	103	2	4	1	7	75
Rubber and plastics	m10	21	10	11	2	6	13
Other nonmetallic minerals	m11	7	0	0	0	0	5
Basic metals and fabricated metal	m12	42	83	6	150	3	18
Machinery, nec	m13	46	73	23	1	1	15
Electrical and optical equipment	m14	44	5	12	5	14	29
Transport equipment	m15	382	129	87	37	254	68
Manufacturing, nec; recycling	m16	36	4	28	20	60	46
Electricity, gas, and water supply	m17	3	30	2	0	1	6
Construction	m18	0	1	0	0	0	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	18	3	8	9	4
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	1	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0
Inland transport	m23	0	0	1	0	0	0
Water transport	m24	3	3	4	72	36	29
Air transport	m25	3	3	33	22	70	169
Other supporting and auxiliary transport activities; activities of travel agencies	m26	22	1	54	28	53	244
Post and telecommunications	m27	4	17	7	1	3	6
Financial intermediation	m28	11	4	1	4	5	4
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	234	164	41	37	333	157
Public administration and defense; compulsory social security	m31	4	1	1	1	1	4
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	0	1	0	0	0	0
Private households with employed persons	m35	0	12	0	0	0	0
Total intermediate consumption	r60	6,919	9,630	3,497	2,788	5,835	6,438
Taxes less subsidies on products	r99	135	64	18	17	13	36
Cif/fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	14,322	6,787	1,955	1,815	1,401	3,831
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	21,376	16,481	5,471	4,621	7,250	10,305

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Table A6.1 Import Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
1	2	4	1	36	1	1	2	0	997	1
0	0	0	0	1	0	0	0	0	2	0
0	1	0	0	54	0	1	19	0	2,562	2
3	2	1	0	36	1	1	2	0	656	0
0	0	0	0	0	0	0	0	0	295	0
0	0	0	0	1	0	0	0	0	64	0
303	369	8	105	226	4	4	21	0	677	1
34	15	2	20	61	1	2	28	1	1,408	0
24	3	5	4	54	2	343	22	6	568	2
4	3	1	5	7	0	4	4	0	196	0
0	0	1	0	7	0	0	1	0	64	0
21	74	4	12	284	5	4	41	3	382	0
184	3	0	4	25	4	1	57	8	337	0
164	9	2	25	226	35	56	114	2	867	0
362	6	4	55	457	14	14	145	18	2,500	2
13	20	1	46	86	3	25	168	0	213	0
8	27	1	4	61	1	1	12	1	114	0
8	2	3	1	34	0	0	1	0	31	0
0	0	0	0	0	0	0	0	0	4	0
7	4	3	9	9	1	16	10	0	26	0
0	0	0	0	0	0	0	0	0	12	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	4	0
21	3	1	16	24	1	1	2	0	43	0
29	23	2	33	106	2	3	8	0	191	0
5	32	2	5	116	1	1	2	0	149	0
424	61	2	17	49	1	1	20	1	247	0
58	203	12	6	22	1	0	14	0	192	0
0	0	0	0	0	0	0	0	0	0	0
366	367	82	659	1,159	27	28	815	61	326	0
10	38	9	2	34	0	0	3	0	166	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	–	1	0
1	0	0	0	6	1	0	35	0	125	0
13	0	4	1	61	0	1	1	1	102	0
<b>20,383</b>	<b>18,386</b>	<b>2,043</b>	<b>3,920</b>	<b>19,272</b>	<b>526</b>	<b>1,637</b>	<b>7,670</b>	<b>319</b>	<b>122,596</b>	<b>109</b>
116	180	35	60	188	17	15	65	10	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
12,267	19,117	3,662	6,384	19,981	1,834	1,634	6,898	1,049	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>32,766</b>	<b>37,683</b>	<b>5,740</b>	<b>10,364</b>	<b>39,441</b>	<b>2,377</b>	<b>3,287</b>	<b>14,633</b>	<b>1,377</b>	<b>122,596</b>	<b>109</b>

*continued on next page*

Table A6.1 Import Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	152	(37)	–	6,343
Mining and quarrying	m2	0	0	(2)	–	3,680
Food, beverages, and tobacco	m3	0	3	54	–	6,154
Textiles and textile products	m4	0	2	(54)	–	1,196
Leather, leather products, and footwear	m5	0	0	(15)	–	381
Wood and products of wood and cork	m6	0	1	(2)	–	211
Pulp, paper, paper products, printing, and publishing	m7	0	269	41	–	3,788
Coke, refined petroleum, and nuclear fuel	m8	–	1	(5)	–	7,303
Chemicals and chemical products	m9	0	6	43	–	10,835
Rubber and plastics	m10	0	64	13	–	1,387
Other nonmetallic minerals	m11	0	8	3	–	1,657
Basic metals and fabricated metal	m12	0	353	30	–	15,025
Machinery, nec	m13	0	1,502	(6)	–	4,231
Electrical and optical equipment	m14	0	4,378	251	–	17,452
Transport equipment	m15	0	8,160	17	–	23,308
Manufacturing, nec; recycling	m16	0	148	(19)	–	1,253
Electricity, gas, and water supply	m17	0	4	0	–	629
Construction	m18	0	292	0	–	433
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	11
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	103	3	–	1,030
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	2	0	–	38
Hotels and restaurants	m22	0	0	0	–	0
Inland transport	m23	0	0	0	–	14
Water transport	m24	0	2	0	–	587
Air transport	m25	0	1	(0)	–	890
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	3	0	–	1,199
Post and telecommunications	m27	0	0	14	–	928
Financial intermediation	m28	0	3	0	–	710
Real estate activities	m29	0	0	0	–	0
Renting of M&Eq and other business activities	m30	165	422	(25)	–	8,845
Public administration and defense; compulsory social security	m31	545	1	0	–	861
Education	m32	0	0	0	–	0
Health and social work	m33	0	0	0	–	8
Other community, social, and personal services	m34	86	23	(0)	–	306
Private households with employed persons	m35	0	0	(0)	–	646
Total intermediate consumption	r60	32,084	57,214	2,425	161,928	813,186
Taxes less subsidies on products	r99	–	–	–	–	2,382
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	252,636
International transport margins		–	–	–	–	–
Output at basic prices	r69	32,084	57,214	2,425	161,928	1,068,204

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

**Table A6.2: Malaysia Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	2,527	6	22,580	70	11	3,043	335
Mining and quarrying	c2	8	163	190	0	0	0	0
Food, beverages, and tobacco	c3	1,508	28	18,549	15	6	17	25
Textiles and textile products	c4	2	2	11	364	8	3	66
Leather, leather products, and footwear	c5	0	0	1	0	5	3	0
Wood and products of wood and cork	c6	100	3	5	2	0	1,327	73
Pulp, paper, paper products, printing, and publishing	c7	1	3	193	17	1	46	2,149
Coke, refined petroleum, and nuclear fuel	c8	2,001	1,028	314	22	1	98	100
Chemicals and chemical products	c9	2,398	486	483	296	9	299	459
Rubber and plastics	c10	135	44	440	20	8	18	92
Other nonmetallic minerals	c11	49	12	99	1	0	18	3
Basic metals and fabricated metal	c12	77	315	565	12	1	50	54
Machinery, nec	c13	40	130	2	22	0	83	2
Electrical and optical equipment	c14	28	81	26	10	0	23	38
Transport equipment	c15	249	36	13	4	0	8	6
Manufacturing, nec; recycling	c16	40	31	197	93	8	23	38
Electricity, gas, and water supply	c17	313	42	557	100	4	205	206
Construction	c18	338	333	300	8	1	44	55
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	179	53	771	20	2	84	58
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	901	267	3,881	100	8	424	293
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	457	124	2,264	55	3	237	158
Hotels and restaurants	c22	82	3	18	2	0	7	13
Inland transport	c23	198	144	314	21	3	120	62
Water transport	c24	113	79	176	12	2	66	32
Air transport	c25	177	128	280	19	3	107	56
Other supporting and auxiliary transport activities; activities of travel agencies	c26	128	197	416	41	3	215	109
Post and telecommunications	c27	168	134	261	33	3	89	396
Financial intermediation	c28	1,716	346	1,324	66	7	231	250
Real estate activities	c29	47	-	124	24	5	51	57
Renting of M&Eq and other business activities	c30	180	163	201	27	2	100	175
Public administration and defense; compulsory social security	c31	0	0	0	0	0	0	0
Education	c32	0	0	0	0	0	0	0
Health and social work	c33	0	0	0	0	0	0	0
Other community, social, and personal services	c34	23	26	260	3	3	13	49
Private households with employed persons	c35	-	-	23	0	-	-	2

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Table A6.2 Domestic Industry *continued*

Industry		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	10	82	2,103	7	16	15	59
Mining and quarrying	c2	22,536	476	11	458	139	27	18
Food, beverages, and tobacco	c3	77	1,816	210	17	32	8	56
Textiles and textile products	c4	1	13	91	4	7	5	35
Leather, leather products, and footwear	c5	0	0	6	1	1	0	2
Wood and products of wood and cork	c6	2	187	19	10	21	9	307
Pulp, paper, paper products, printing, and publishing	c7	5	112	91	64	69	13	141
Coke, refined petroleum, and nuclear fuel	c8	781	2,468	248	704	233	14	147
Chemicals and chemical products	c9	633	8,715	3,477	294	425	119	902
Rubber and plastics	c10	44	315	6,871	32	110	125	1,278
Other nonmetallic minerals	c11	2	131	42	1,010	471	25	706
Basic metals and fabricated metal	c12	25	224	133	336	5,882	960	2,344
Machinery, nec	c13	0	2	24	15	168	253	342
Electrical and optical equipment	c14	5	185	126	18	244	185	16,705
Transport equipment	c15	3	6	13	7	47	67	143
Manufacturing, nec; recycling	c16	10	120	67	33	357	65	271
Electricity, gas, and water supply	c17	230	587	595	393	550	72	694
Construction	c18	89	101	88	73	67	30	772
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	292	260	267	64	170	36	415
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1,472	1,309	1,343	323	858	183	2,092
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	881	747	663	174	500	112	1,274
Hotels and restaurants	c22	3	17	19	7	30	8	28
Inland transport	c23	168	173	104	93	119	24	224
Water transport	c24	95	96	58	51	64	12	117
Air transport	c25	150	154	93	83	103	21	201
Other supporting and auxiliary transport activities; activities of travel agencies	c26	202	260	87	167	172	29	295
Post and telecommunications	c27	74	223	189	96	218	66	783
Financial intermediation	c28	656	545	186	149	434	100	1,288
Real estate activities	c29	14	108	70	49	85	29	186
Renting of M&Eq and other business activities	c30	93	170	147	78	135	68	731
Public administration and defense; compulsory social security	c31	0	0	0	0	0	0	0
Education	c32	0	0	0	0	0	0	1
Health and social work	c33	0	0	0	0	0	0	0
Other community, social, and personal services	c34	11	452	838	357	467	32	143
Private households with employed persons	c35	0	127	30	24	39	16	99

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Table A6.2 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
458	720	19	26	7	1,338	103	1,643	8	4	14	10
29	133	600	466	0	2	1	1	1	0	1	1
18	21	11	27	2	627	1,613	4,110	4	2	5	9
62	56	0	4	0	177	9	41	1	0	3	2
1	5	0	0	0	17	0	0	0	0	0	0
58	932	1	2,479	1	217	8	1	1	0	1	1
19	72	129	9	171	1,466	135	16	8	5	3	14
47	30	1,317	1,548	75	3,935	1,053	343	1,824	601	2,389	341
286	391	136	305	3	680	538	11	18	6	23	156
711	271	131	374	4	1,041	473	7	252	2	11	220
91	37	1	4,503	0	86	34	1	1	0	1	15
1,490	463	184	4,164	32	252	30	34	85	280	112	72
313	62	244	321	19	3	60	205	64	2	1	14
1,691	66	63	1,071	10	767	138	50	40	5	10	49
3,675	22	23	54	965	22	1,065	20	61	65	409	55
129	167	10	334	24	625	814	72	17	17	10	32
172	107	2,330	208	32	148	163	1,257	84	10	33	153
46	845	18	4,304	3	16	11	171	4	2	8	77
157	59	57	326	33	198	136	131	46	19	57	18
792	297	288	1,640	167	997	686	658	233	97	285	89
449	170	154	937	59	569	319	368	121	53	153	54
13	5	4	55	50	572	204	1,633	63	81	155	73
57	33	57	125	47	321	101	71	433	259	184	918
30	18	24	67	26	174	54	38	248	149	100	525
51	29	53	111	43	288	91	64	387	231	166	819
47	36	28	84	36	492	75	45	301	121	206	769
150	74	542	324	149	860	548	494	231	48	291	218
178	70	347	428	192	1,428	849	274	110	233	203	149
61	34	-	691	100	233	781	97	235	164	91	324
161	56	578	291	113	598	345	202	100	43	351	135
0	0	-	-	-	0	0	0	-	-	-	-
0	0	0	1	0	1	1	0	0	0	0	0
0	0	0	1	0	0	1	0	0	0	0	0
56	18	313	141	14	75	41	416	14	12	44	18
74	23	-	-	-	-	-	-	-	-	-	-

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Table A6.2 Domestic Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	88	21	21	18	60
Mining and quarrying	c2	1	0	0	0	1
Food, beverages, and tobacco	c3	17	8	3	5	199
Textiles and textile products	c4	8	3	1	1	31
Leather, leather products, and footwear	c5	0	0	0	0	1
Wood and products of wood and cork	c6	7	5	1	4	11
Pulp, paper, paper products, printing, and publishing	c7	807	488	19	777	243
Coke, refined petroleum, and nuclear fuel	c8	210	71	15	103	154
Chemicals and chemical products	c9	62	19	14	21	84
Rubber and plastics	c10	50	13	13	79	30
Other nonmetallic minerals	c11	4	1	3	1	9
Basic metals and fabricated metal	c12	49	7	7	66	117
Machinery, nec	c13	14	1	0	8	34
Electrical and optical equipment	c14	995	29	2	48	183
Transport equipment	c15	23	8	1	66	216
Manufacturing, nec; recycling	c16	54	299	9	98	155
Electricity, gas, and water supply	c17	390	735	37	150	538
Construction	c18	886	164	221	138	1,497
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	47	22	2	23	27
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	240	113	10	118	134
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	189	57	11	70	101
Hotels and restaurants	c22	38	1,115	11	26	386
Inland transport	c23	148	118	19	131	282
Water transport	c24	49	69	10	70	150
Air transport	c25	141	103	18	118	254
Other supporting and auxiliary transport activities; activities of travel agencies	c26	61	149	18	91	336
Post and telecommunications	c27	10,626	1,845	128	686	1,858
Financial intermediation	c28	4,645	9,899	792	316	636
Real estate activities	c29	194	553	904	211	808
Renting of M&Eq and other business activities	c30	2,648	372	97	386	716
Public administration and defense; compulsory social security	c31	-	-	-	0	0
Education	c32	1	1	2	0	3
Health and social work	c33	1	182	1	2	77
Other community, social, and personal services	c34	317	45	14	111	706
Private households with employed persons	c35	-	-	-	-	-

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Table A6.2 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
20	4	50	-	2,521	0	5	1,157	(13)	5,397	<b>44,561</b>
0	0	1	-	11	0	0	5	11	8,598	<b>33,888</b>
6	80	281	-	21,842	0	1	50	(252)	21,630	<b>72,680</b>
6	3	2	-	1,062	0	0	6	33	895	<b>3,017</b>
1	0	29	-	114	0	0	12	2	39	<b>240</b>
3	3	7	-	37	0	0	29	(12)	4,220	<b>10,079</b>
51	14	28	-	914	0	0	25	0	1,420	<b>9,740</b>
32	24	267	-	7,196	0	0	6	0	17,338	<b>47,079</b>
35	1,398	111	-	2,443	0	0	363	(50)	8,853	<b>34,901</b>
5	90	36	-	2,059	0	3	57	(112)	9,651	<b>25,004</b>
2	1	3	-	133	0	0	28	(4)	600	<b>8,120</b>
12	8	27	-	176	0	0	892	(22)	3,693	<b>23,204</b>
3	1	71	-	123	0	0	2,155	7	1,583	<b>6,388</b>
165	81	401	-	2,507	0	3	8,739	(137)	37,007	<b>71,656</b>
13	5	28	-	2,426	0	0	9,398	7	2,670	<b>21,899</b>
26	23	758	-	818	0	0	1,413	3	3,761	<b>11,023</b>
193	52	977	-	4,635	5	43	85	(0)	340	<b>17,423</b>
331	31	108	-	6,227	0	3	26,628	(0)	4,480	<b>48,519</b>
6	28	39	-	2,360	0	0	381	(0)	2,052	<b>8,898</b>
33	140	200	-	10,464	0	2	1,919	(0)	11,707	<b>44,761</b>
24	86	152	-	15,611	0	5	1,185	(0)	6,704	<b>35,247</b>
62	30	181	-	18,599	0	1	11	0	182	<b>23,786</b>
41	17	140	-	1,708	0	4	110	(0)	2,148	<b>9,238</b>
21	9	59	-	1,115	0	0	50	0	1,072	<b>5,098</b>
37	16	130	-	1,762	0	4	102	(0)	1,686	<b>8,279</b>
32	14	68	-	2,227	0	0	67	(0)	2,245	<b>9,872</b>
265	81	2,167	-	16,825	2	152	721	(1)	2,914	<b>44,930</b>
147	52	1,195	-	6,685	0	68	425	(1)	844	<b>37,459</b>
243	47	33	-	598	-	-	-	-	1	<b>7,252</b>
177	54	1,475	-	539	0	151	946	(1)	1,121	<b>13,923</b>
0	0	0	-	359	-	23,682	-	(0)	83	<b>24,124</b>
185	0	1	-	3,733	17	8,119	0	(0)	88	<b>12,158</b>
0	1	1	-	2,575	33	3,929	0	(0)	58	<b>6,865</b>
164	17	4,212	-	15,941	55	515	221	0	1,741	<b>27,895</b>
-	-	-	-	274	-	-	-	4	467	<b>1,201</b>

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Table A6.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Industry								
Imports								
Agriculture, hunting, forestry, and fishing	m1	651	2	5,235	17	3	777	90
Mining and quarrying	m2	4	96	66	0	0	0	0
Food, beverages, and tobacco	m3	102	2	1,101	1	0	1	1
Textiles and textile products	m4	1	1	6	192	4	1	36
Leather, leather products, and footwear	m5	1	0	2	0	11	7	0
Wood and products of wood and cork	m6	7	0	0	0	0	92	5
Pulp, paper, paper products, printing, and publishing	m7	1	1	64	5	0	17	807
Coke, refined petroleum, and nuclear fuel	m8	417	203	60	4	0	25	27
Chemicals and chemical products	m9	1,196	241	222	133	5	181	287
Rubber and plastics	m10	12	4	35	2	1	2	9
Other nonmetallic minerals	m11	18	4	33	0	0	8	1
Basic metals and fabricated metal	m12	66	275	438	8	1	41	46
Machinery, nec	m13	58	196	3	27	0	123	2
Electrical and optical equipment	m14	28	87	29	9	0	21	37
Transport equipment	m15	145	23	7	2	0	4	3
Manufacturing, nec; recycling	m16	6	12	66	19	2	7	11
Electricity, gas, and water supply	m17	5	1	8	1	0	4	4
Construction	m18	3	3	2	0	0	0	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	2	0	0	1	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	49	1	132	13	2	5	9
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	0	4	0	0	1	1
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	21	15	31	2	0	13	7
Water transport	m24	25	8	61	6	0	13	8
Air transport	m25	31	15	44	3	0	11	6
Other supporting and auxiliary transport activities; activities of travel agencies	m26	19	29	57	5	0	32	17
Post and telecommunications	m27	16	13	24	3	0	10	45
Financial intermediation	m28	172	36	123	6	1	25	28
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	130	121	135	17	1	75	136
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	1	0	0	0	0
Other community, social, and personal services	m34	1	1	9	0	0	0	2
Private households with employed persons	m35	-	-	26	0	-	-	5
Total intermediate consumption	r60	17,369	5,800	62,864	1,960	140	8,549	7,044
Taxes less subsidies on products	r99	87	(21)	774	45	3	41	31
Cif/fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	27,105	28,110	9,042	1,012	97	1,489	2,665
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	44,561	33,888	72,680	3,017	240	10,079	9,740

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Table A6.2 Imports Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
1	23	570	2	3	5	15	130	194	5	7	2	314
7,688	288	7	246	60	12	8	15	86	155	265	0	1
3	112	14	1	2	0	3	1	1	1	2	0	38
0	7	53	2	5	3	21	37	32	0	2	0	94
0	0	16	1	1	1	5	3	12	0	0	0	37
0	13	1	1	1	1	19	4	65	0	159	0	15
1	40	33	21	23	5	45	7	25	45	3	60	526
88	558	58	134	45	3	29	11	7	288	365	15	984
160	4,572	1,886	136	218	61	420	151	201	71	155	3	403
2	28	629	3	11	11	104	66	25	12	33	1	105
0	51	17	333	156	9	235	35	15	0	1,712	0	38
11	182	114	257	4,851	792	1,753	1,224	368	151	3,225	28	191
0	3	37	20	221	344	431	469	107	359	508	28	4
6	161	117	17	261	185	15,588	1,786	66	63	1,148	13	743
1	3	7	4	30	41	77	2,189	12	14	29	622	11
2	44	25	9	110	22	81	42	60	3	78	6	151
2	11	11	5	7	1	9	3	2	37	4	0	3
0	1	1	1	1	0	6	0	8	0	40	0	0
2	2	3	0	0	0	2	1	1	0	1	0	2
78	97	55	22	51	10	327	60	21	23	64	1	32
2	3	2	0	0	0	1	2	1	0	4	0	2
0	0	0	0	0	0	0	0	0	0	0	0	1
7	17	11	9	12	3	21	6	4	6	14	5	36
34	34	16	29	30	3	38	11	3	7	15	2	47
10	20	12	12	16	4	40	9	4	7	15	4	47
14	38	13	22	24	4	38	7	5	4	12	5	72
4	24	21	8	19	6	68	15	8	53	35	15	89
38	57	20	13	39	10	114	19	8	35	46	19	148
0	0	0	0	0	0	0	0	0	0	0	0	0
36	125	112	51	94	48	477	121	43	417	220	80	437
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	1	0	0	1	0	0	0
0	18	32	12	16	1	6	3	1	13	5	1	3
0	278	67	22	23	18	112	127	52	-	-	-	-
<b>36,757</b>	<b>26,993</b>	<b>22,271</b>	<b>6,587</b>	<b>18,562</b>	<b>4,329</b>	<b>52,894</b>	<b>18,127</b>	<b>6,758</b>	<b>9,436</b>	<b>33,584</b>	<b>3,289</b>	<b>22,798</b>
(10)	(36)	90	(1)	95	53	232	1,013	31	(9)	67	419	(38)
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
10,331	7,944	2,644	1,534	4,548	2,006	18,530	2,758	4,235	7,996	14,868	5,190	22,001
-	-	-	-	-	-	-	-	-	-	-	-	-
<b>47,079</b>	<b>34,901</b>	<b>25,004</b>	<b>8,120</b>	<b>23,204</b>	<b>6,388</b>	<b>71,656</b>	<b>21,899</b>	<b>11,023</b>	<b>17,423</b>	<b>48,519</b>	<b>8,898</b>	<b>44,761</b>

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Table A6.2 Imports Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	27	350	2	1	4	2
Mining and quarrying	m2	0	0	0	0	0	0
Food, beverages, and tobacco	m3	110	236	0	0	0	1
Textiles and textile products	m4	6	28	1	0	2	1
Leather, leather products, and footwear	m5	0	0	0	0	0	0
Wood and products of wood and cork	m6	1	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	49	5	3	1	1	5
Coke, refined petroleum, and nuclear fuel	m8	229	72	404	78	505	69
Chemicals and chemical products	m9	280	5	10	2	12	76
Rubber and plastics	m10	42	1	23	1	1	18
Other nonmetallic minerals	m11	12	0	0	0	0	5
Basic metals and fabricated metal	m12	26	26	77	203	101	62
Machinery, nec	m13	91	284	98	2	1	20
Electrical and optical equipment	m14	137	45	41	6	11	47
Transport equipment	m15	669	10	37	31	247	32
Manufacturing, nec; recycling	m16	212	24	6	5	4	11
Electricity, gas, and water supply	m17	3	19	1	0	1	2
Construction	m18	0	1	0	0	0	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	1	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	3	18	7	15	8	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	1	0	0	0	0
Hotels and restaurants	m22	0	2	0	0	0	0
Inland transport	m23	11	7	49	22	21	100
Water transport	m24	6	4	25	112	29	50
Air transport	m25	11	7	46	39	50	91
Other supporting and auxiliary transport activities; activities of travel agencies	m26	11	6	45	16	32	110
Post and telecommunications	m27	56	45	24	3	30	21
Financial intermediation	m28	88	25	12	17	21	15
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	255	131	76	25	260	95
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	2	14	1	0	2	1
Private households with employed persons	m35	-	-	-	-	-	-
Total intermediate consumption	r60	12,816	13,841	5,982	3,094	6,660	6,169
Taxes less subsidies on products	r99	321	150	(46)	1	19	33
Cif/fob adjustments on exports	r61	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-
Value added at basic prices	r64	22,109	9,796	3,302	2,003	1,600	3,670
International transport margins		-	-	-	-	-	-
Output at basic prices	r69	35,247	23,786	9,238	5,098	8,279	9,872

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Table A6.2 Imports Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
20	5	5	4	14	4	1	11	-	604	0
1	0	0	0	0	0	0	1	-	4	0
1	0	0	0	12	0	4	20	-	1,302	0
4	2	1	1	18	3	1	2	-	661	0
0	0	0	0	2	3	0	76	-	297	0
0	0	0	0	1	0	0	1	-	2	0
265	148	6	277	79	16	4	12	-	307	0
41	13	3	26	29	6	5	58	-	1,460	0
30	8	7	12	39	15	721	47	-	1,180	0
4	1	1	8	2	0	9	3	-	169	0
2	0	1	0	3	1	0	1	-	47	0
38	5	5	48	100	9	7	22	-	139	0
19	1	0	11	47	4	1	102	-	169	0
903	25	2	47	194	147	128	328	-	2,353	0
13	5	1	35	124	7	3	13	-	1,331	0
18	89	3	33	50	8	7	283	-	263	0
6	9	1	3	8	3	1	21	-	74	0
7	1	2	1	12	3	0	1	-	49	0
0	0	0	0	0	0	0	0	-	10	0
7	4	3	7	9	4	35	14	-	40	0
0	0	0	0	0	0	0	1	-	37	0
0	1	0	0	0	0	0	0	-	17	0
15	11	2	14	29	4	2	15	-	169	0
23	11	2	15	30	5	3	6	-	108	0
28	12	3	17	35	6	4	14	-	196	0
10	19	2	13	47	4	2	10	-	301	0
990	158	10	70	176	24	7	243	-	1,584	0
440	873	74	32	62	13	5	131	-	634	0
0	0	0	0	0	0	0	0	-	0	0
1,787	237	66	285	494	116	36	1,139	-	370	0
0	0	0	0	0	0	0	0	-	19	-
0	0	0	0	0	0	0	0	-	1	0
0	0	0	1	0	0	0	1	-	2	0
10	2	0	5	25	6	1	163	-	510	1
-	-	-	-	-	-	-	-	-	244	-
<b>27,694</b>	<b>18,157</b>	<b>2,603</b>	<b>4,907</b>	<b>11,677</b>	<b>2,755</b>	<b>3,398</b>	<b>15,977</b>	-	<b>171,270</b>	<b>114</b>
415	298	22	80	157	23	12	48	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
16,821	19,003	4,627	8,935	12,289	9,380	3,455	11,870	1,201	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>44,930</b>	<b>37,459</b>	<b>7,252</b>	<b>13,923</b>	<b>24,124</b>	<b>12,158</b>	<b>6,865</b>	<b>27,895</b>	<b>1,201</b>	<b>171,270</b>	<b>114</b>

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Table A6.2 Imports Industry *continued*

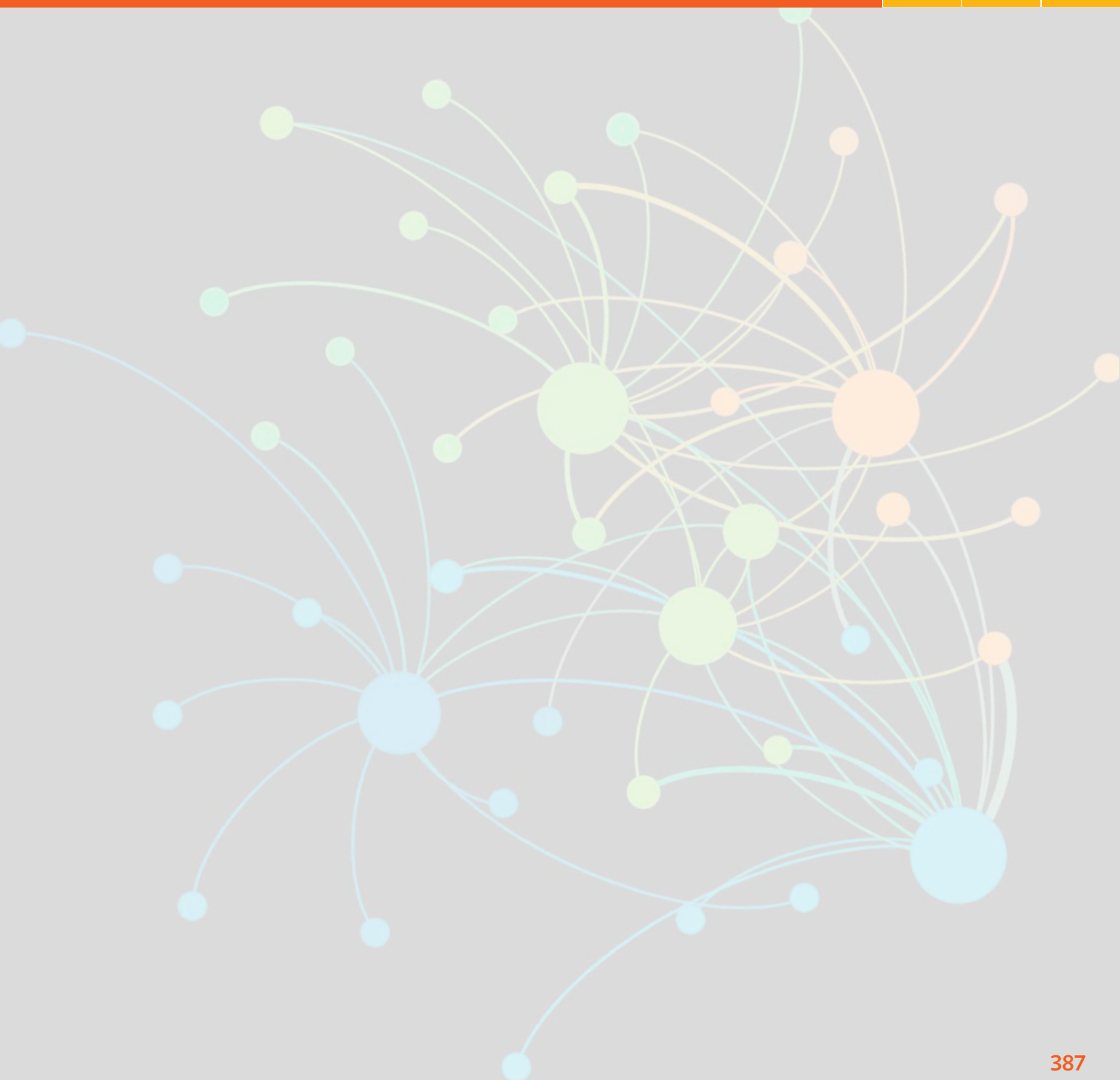
		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	1	428	(8)	-	9,519
Mining and quarrying	m2	0	3	39	-	9,049
Food, beverages, and tobacco	m3	0	4	(41)	-	3,038
Textiles and textile products	m4	0	5	109	-	1,345
Leather, leather products, and footwear	m5	0	31	24	-	532
Wood and products of wood and cork	m6	0	2	(3)	-	387
Pulp, paper, paper products, printing, and publishing	m7	0	13	1	-	2,920
Coke, refined petroleum, and nuclear fuel	m8	0	1	5	-	6,325
Chemicals and chemical products	m9	0	201	(87)	-	13,261
Rubber and plastics	m10	0	6	(33)	-	1,351
Other nonmetallic minerals	m11	0	11	(6)	-	2,747
Basic metals and fabricated metal	m12	0	799	(57)	-	15,633
Machinery, nec	m13	0	3,282	45	-	7,121
Electrical and optical equipment	m14	1	9,259	(445)	-	33,594
Transport equipment	m15	0	5,800	25	-	11,605
Manufacturing, nec; recycling	m16	0	580	14	-	2,366
Electricity, gas, and water supply	m17	0	1	0	-	270
Construction	m18	0	237	0	-	383
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	1	0	-	30
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	123	8	-	1,358
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	3	0	-	71
Hotels and restaurants	m22	0	0	0	-	23
Inland transport	m23	0	12	95	-	819
Water transport	m24	0	6	85	-	912
Air transport	m25	0	13	(0)	-	882
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	10	0	-	1,059
Post and telecommunications	m27	6	67	(0)	-	3,990
Financial intermediation	m28	3	44	(0)	-	3,447
Real estate activities	m29	0	0	0	-	2
Renting of M&Eq and other business activities	m30	50	693	(0)	-	8,997
Public administration and defense; compulsory social security	m31	562	0	0	-	582
Education	m32	1	0	0	-	2
Health and social work	m33	1	0	0	-	13
Other community, social, and personal services	m34	8	7	0	-	881
Private households with employed persons	m35	-	-	74	-	1,050
Total intermediate consumption	r60	37,327	78,828	(696)	167,285	955,970
Taxes less subsidies on products	r99	-	-	-	-	4,398
Cif/fob adjustments on exports	r61	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-
Value added at basic prices	r64	-	-	-	-	304,165
International transport margins		-	-	-	-	-
Output at basic prices	r69	37,327	78,828	(696)	167,285	1,264,533

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

# APPENDIX 7: INPUT-OUTPUT TABLES FOR 2010 AND 2017—PHILIPPINES

## A7



**Table A7.1: Philippines Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	3,497	1	19,240	33	8	143	20
Mining and quarrying	c2	0	0	87	-	0	-	-
Food, beverages, and tobacco	c3	2,347	-	10,472	-	-	-	-
Textiles and textile products	c4	75	0	109	829	116	10	24
Leather, leather products, and footwear	c5	0	0	2	136	7	4	2
Wood and products of wood and cork	c6	14	6	12	3	0	33	9
Pulp, paper, paper products, printing, and publishing	c7	17	19	291	27	1	8	290
Coke, refined petroleum, and nuclear fuel	c8	307	233	409	259	2	68	42
Chemicals and chemical products	c9	1,067	88	825	163	3	85	168
Rubber and plastics	c10	6	12	75	115	40	0	8
Other nonmetallic minerals	c11	4	24	280	0	-	1	1
Basic metals and fabricated metal	c12	85	89	65	9	2	7	25
Machinery, nec	c13	0	-	-	-	-	-	-
Electrical and optical equipment	c14	119	42	49	19	4	4	11
Transport equipment	c15	-	0	-	-	-	-	-
Manufacturing, nec; recycling	c16	7	20	58	11	3	7	18
Electricity, gas, and water supply	c17	198	139	636	83	13	21	90
Construction	c18	-	-	-	-	-	-	-
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	7	1	186	19	1	6	21
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	215	19	1,090	146	8	133	149
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	645	58	3,667	486	39	335	488
Hotels and restaurants	c22	1	0	50	1	-	-	-
Inland transport	c23	299	41	114	11	0	2	7
Water transport	c24	37	1	0	1	-	0	0
Air transport	c25	10	0	24	3	0	1	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	64	52	62	7	1	11	4
Post and telecommunications	c27	110	44	291	35	2	14	23
Financial intermediation	c28	598	31	288	33	2	7	7
Real estate activities	c29	64	3	72	33	1	1	28
Renting of M&Eq and other business activities	c30	281	117	159	29	1	7	30
Public administration and defense; compulsory social security	c31	-	-	-	-	-	-	-
Education	c32	-	-	-	-	-	-	-
Health and social work	c33	61	1	0	-	-	-	-
Other community, social, and personal services	c34	22	1	4	0	0	0	2
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A7.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
0	228	158	4	0	-	-	0	306	0	46	-	193
2,411	0	-	228	651	-	21	-	29	135	96	-	56
-	-	-	-	-	-	-	-	-	-	-	-	185
0	16	21	13	5	2	54	1	126	2	13	4	15
-	2	1	-	0	0	6	0	60	1	16	0	1
0	14	1	16	5	3	8	1	388	0	498	0	1
14	119	8	24	17	20	72	3	65	18	24	2	11
1,059	768	282	396	740	172	586	37	72	372	469	20	71
54	1,607	239	125	131	24	461	43	141	30	48	4	27
-	1	125	24	8	27	22	51	12	4	37	2	19
-	36	1	399	4	3	66	6	9	3	1,334	0	1
30	25	9	44	1,080	360	728	342	104	33	2,928	4	31
-	-	-	-	-	38	-	45	-	1	-	-	2
9	28	6	22	36	7	12,155	287	48	138	103	75	17
-	-	-	-	-	-	-	43	-	0	2	0	1
1	16	2	20	26	1	28	3	188	12	20	16	14
2	153	87	287	379	70	1,092	35	68	1,747	91	58	26
-	-	-	-	-	-	-	-	-	-	-	-	-
10	24	9	10	32	10	148	28	8	16	19	354	18
94	181	67	88	198	80	1,072	399	58	4	131	1	2,297
283	543	200	317	623	220	2,337	1,003	175	13	392	4	-
-	-	-	-	-	-	1	-	-	0	19	-	0
22	40	5	26	36	56	842	12	4	21	145	8	97
-	0	0	-	0	6	1	-	0	1	30	0	3
0	6	0	0	-	-	7	0	2	0	8	-	36
11	8	2	13	22	7	40	5	9	11	15	23	105
15	30	6	35	40	11	890	53	34	75	33	59	172
39	42	10	23	29	6	82	13	18	50	54	29	100
0	8	4	6	16	11	82	1	90	56	67	0	27
31	57	24	61	86	14	45	46	11	114	196	19	6
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
0	1	0	0	5	-	1	0	0	0	16	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A7.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	616	525	-	0	-	-
Mining and quarrying	c2	179	0	0	-	-	-
Food, beverages, and tobacco	c3	591	3,438	-	7	89	0
Textiles and textile products	c4	47	24	8	0	8	22
Leather, leather products, and footwear	c5	3	0	1	-	3	2
Wood and products of wood and cork	c6	2	1	11	0	-	1
Pulp, paper, paper products, printing, and publishing	c7	36	15	8	0	9	11
Coke, refined petroleum, and nuclear fuel	c8	226	12	1,016	184	956	44
Chemicals and chemical products	c9	85	15	29	0	5	14
Rubber and plastics	c10	59	7	89	0	29	1
Other nonmetallic minerals	c11	2	21	-	-	-	0
Basic metals and fabricated metal	c12	100	2	164	1	5	41
Machinery, nec	c13	7	0	0	0	-	2
Electrical and optical equipment	c14	54	21	322	10	4	41
Transport equipment	c15	4	-	-	0	44	3
Manufacturing, nec; recycling	c16	46	27	17	2	33	59
Electricity, gas, and water supply	c17	82	381	44	1	37	31
Construction	c18	-	-	-	-	-	-
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	59	6	166	34	77	5
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	-	8	125	13	9	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	7,147	24	395	40	26	4
Hotels and restaurants	c22	1	201	-	-	8	-
Inland transport	c23	312	3	185	0	-	57
Water transport	c24	8	-	1	-	6	2
Air transport	c25	115	5	1	0	45	20
Other supporting and auxiliary transport activities; activities of travel agencies	c26	338	2	35	0	24	78
Post and telecommunications	c27	550	5	25	10	24	20
Financial intermediation	c28	320	52	208	26	85	51
Real estate activities	c29	86	53	2	40	567	153
Renting of M&Eq and other business activities	c30	20	47	16	20	322	83
Public administration and defense; compulsory social security	c31	-	-	-	-	-	-
Education	c32	-	-	-	-	-	-
Health and social work	c33	-	-	4	0	-	-
Other community, social, and personal services	c34	0	40	1	0	5	78
Private households with employed persons	c35	-	-	-	-	-	-

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Table A7.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
-	-	-	-	2	17	79	-	-	5,742	-
-	-	1	1	-	0	-	-	-	8	-
0	1	-	188	76	49	384	-	-	33,257	-
14	3	-	16	1	26	33	206	0	2,807	-
1	-	-	4	0	1	0	37	-	203	-
2	-	6	1	3	0	0	12	0	114	-
10	198	7	246	18	160	19	79	0	277	-
51	119	54	208	49	84	11	145	0	1,166	-
33	79	15	56	8	41	257	128	0	845	-
11	7	0	20	24	3	6	10	0	795	-
3	-	63	92	11	12	9	0	-	97	-
74	-	2	36	40	5	7	6	0	8	-
-	-	-	6	-	-	-	7	-	-	-
553	5	3	129	1	68	50	121	0	611	-
0	-	-	-	-	3	-	1	-	1,149	-
14	24	4	76	0	27	10	113	0	2,310	-
120	213	20	1,085	72	212	337	428	1	2,064	-
-	-	-	-	-	-	-	-	-	523	-
54	4	8	2	8	1	1	100	-	195	-
59	3	0	118	47	11	92	17	0	15,386	-
178	10	1	355	140	33	277	52	0	6,411	-
55	148	17	250	123	74	9	151	2	3,759	-
27	-	24	352	21	26	11	65	0	5,026	-
6	3	1	-	0	0	-	-	-	600	-
53	180	3	119	5	56	35	24	-	2,911	-
6	3	0	21	9	0	9	1	-	805	-
397	212	14	556	577	53	18	90	0	4,858	-
163	1,412	330	1,715	946	376	241	186	0	10,205	-
507	1,531	53	2,056	144	40	34	120	0	10,787	-
423	1,414	166	1,145	285	18	125	284	0	4,056	-
-	-	-	-	1,007	-	-	-	-	-	-
-	-	0	16	-	48	100	1	-	4,631	-
-	-	-	-	74	0	212	-	-	2,976	-
0	67	3	1,161	29	33	11	779	-	5,169	-
-	-	-	-	-	-	-	-	1	38	-

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Table A7.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Domestic</b>						
Agriculture, hunting, forestry, and fishing	c1	-	3,522	666	1,061	<b>36,107</b>
Mining and quarrying	c2	-	-	41	204	<b>4,149</b>
Food, beverages, and tobacco	c3	-	-	2,127	7,957	<b>61,168</b>
Textiles and textile products	c4	-	-	154	830	<b>5,635</b>
Leather, leather products, and footwear	c5	-	-	(334)	370	<b>528</b>
Wood and products of wood and cork	c6	-	-	1	357	<b>1,524</b>
Pulp, paper, paper products, printing, and publishing	c7	-	9	179	181	<b>2,516</b>
Coke, refined petroleum, and nuclear fuel	c8	-	-	418	462	<b>11,570</b>
Chemicals and chemical products	c9	-	-	396	733	<b>8,071</b>
Rubber and plastics	c10	-	-	241	344	<b>2,232</b>
Other nonmetallic minerals	c11	-	-	110	1,466	<b>4,059</b>
Basic metals and fabricated metal	c12	-	74	(286)	1,402	<b>7,679</b>
Machinery, nec	c13	-	823	(54)	1,177	<b>2,056</b>
Electrical and optical equipment	c14	-	3,553	2,085	15,773	<b>36,583</b>
Transport equipment	c15	-	2,060	(58)	584	<b>3,836</b>
Manufacturing, nec; recycling	c16	-	371	216	517	<b>4,336</b>
Electricity, gas, and water supply	c17	-	-	84	0	<b>10,485</b>
Construction	c18	-	21,716	(488)	55	<b>21,806</b>
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	-	-	131	0	<b>1,780</b>
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	-	-	(11,850)	348	<b>10,819</b>
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	-	-	10,549	1,045	<b>38,515</b>
Hotels and restaurants	c22	-	-	297	3,412	<b>8,579</b>
Inland transport	c23	-	-	(461)	211	<b>7,648</b>
Water transport	c24	-	-	75	100	<b>884</b>
Air transport	c25	-	-	(62)	298	<b>3,907</b>
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	-	(21)	422	<b>2,202</b>
Post and telecommunications	c27	-	-	(540)	710	<b>9,551</b>
Financial intermediation	c28	-	-	1,192	941	<b>19,913</b>
Real estate activities	c29	-	-	(11,978)	71	<b>4,839</b>
Renting of M&Eq and other business activities	c30	-	2,858	5,088	10,815	<b>28,520</b>
Public administration and defense; compulsory social security	c31	11,798	-	(886)	262	<b>12,181</b>
Education	c32	4,611	-	247	24	<b>9,680</b>
Health and social work	c33	1,942	-	214	22	<b>5,506</b>
Other community, social, and personal services	c34	-	145	440	388	<b>8,403</b>
Private households with employed persons	c35	-	0	1	-	<b>39</b>

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Table A7.1 Import Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	73	0	408	1	0	3	0
Mining and quarrying	m2	0	0	63	0	0	0	0
Food, beverages, and tobacco	m3	195	0	893	0	0	0	0
Textiles and textile products	m4	39	0	59	452	63	6	13
Leather, leather products, and footwear	m5	0	0	1	70	4	2	1
Wood and products of wood and cork	m6	16	8	14	3	0	40	11
Pulp, paper, paper products, printing, and publishing	m7	14	16	245	23	1	7	236
Coke, refined petroleum, and nuclear fuel	m8	105	81	148	89	1	25	14
Chemicals and chemical products	m9	717	60	586	108	2	60	112
Rubber and plastics	m10	3	5	35	50	17	0	4
Other nonmetallic minerals	m11	0	2	19	0	0	0	0
Basic metals and fabricated metal	m12	41	43	33	4	1	3	12
Machinery, nec	m13	1	0	0	0	0	0	0
Electrical and optical equipment	m14	66	23	28	11	2	2	6
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	1	3	5	0	0	1	2
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	7	0	8	2	1	1	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	2	0	10	1	0	1	1
Hotels and restaurants	m22	0	0	16	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	39	1	6	2	0	1	1
Air transport	m25	6	0	12	2	0	1	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	5	4	5	1	0	1	0
Post and telecommunications	m27	3	1	8	1	0	0	1
Financial intermediation	m28	24	1	12	1	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	9	3	3	1	0	0	1
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	5	0	0	0	0	0	0
Other community, social, and personal services	m34	1	0	0	0	0	0	0
Private households with employed persons	m35	-	-	-	-	-	-	-
Total intermediate consumption	r60	11,529	1,295	41,234	3,309	345	1,063	1,889
Taxes less subsidies on products	r99	-	-	-	-	-	-	-
Cif/fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	24,578	2,854	19,934	2,325	183	461	627
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	36,107	4,149	61,168	5,635	528	1,524	2,516

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Table A7.1 Import Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	5	3	0	0	0	0
Mining and quarrying	m2	4,039	1	0	386	910	0	21
Food, beverages, and tobacco	m3	0	0	0	0	0	0	0
Textiles and textile products	m4	0	9	11	7	4	1	27
Leather, leather products, and footwear	m5	0	1	1	0	0	0	3
Wood and products of wood and cork	m6	1	17	1	19	6	4	9
Pulp, paper, paper products, printing, and publishing	m7	12	97	6	20	16	16	56
Coke, refined petroleum, and nuclear fuel	m8	363	262	94	136	345	57	186
Chemicals and chemical products	m9	44	1,075	161	84	119	16	288
Rubber and plastics	m10	0	2	54	11	5	12	11
Other nonmetallic minerals	m11	0	3	0	25	0	0	4
Basic metals and fabricated metal	m12	14	12	4	21	582	171	332
Machinery, nec	m13	0	0	0	0	0	53	0
Electrical and optical equipment	m14	5	16	3	12	23	15	6,938
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	0	2	0	3	2	0	4
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	11	9	4	2	6	2	81
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	1	0	1	2	1	5
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	1
Water transport	m24	4	2	1	1	5	6	7
Air transport	m25	1	4	1	0	2	1	14
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	1	0	1	2	0	3
Post and telecommunications	m27	0	1	0	1	2	0	20
Financial intermediation	m28	2	2	0	1	2	0	4
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	1	1	1	1	2	0	6
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	-	-	-	-	-	-	-
Total intermediate consumption	r60	8,586	5,476	1,616	2,913	6,205	1,504	28,868
Taxes less subsidies on products	r99	-	-	-	-	-	-	-
Cif/fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	2,984	2,595	616	1,146	1,474	552	7,715
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	11,570	8,071	2,232	4,059	7,679	2,056	36,583

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Table A7.1 Import Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	7	0	1	0	6	22	11	0	0	0	0
0	48	58	143	0	28	93	0	0	0	0	0
0	0	0	0	0	18	58	286	0	1	7	0
0	74	2	8	2	11	37	12	4	0	4	11
0	33	1	7	0	1	2	0	0	0	1	1
1	506	0	650	0	1	3	1	13	0	0	1
2	57	19	20	1	11	36	12	7	0	7	8
13	27	241	172	7	37	127	4	359	40	326	13
29	102	37	34	3	27	93	10	20	1	3	9
29	6	3	18	1	13	43	3	41	1	13	2
0	1	0	89	0	0	0	1	0	0	0	0
159	54	20	1,469	2	18	61	1	80	0	2	19
62	0	1	0	0	4	13	0	0	0	0	3
162	29	99	58	42	11	37	12	177	19	8	30
47	0	0	2	0	1	5	0	0	0	49	3
0	28	2	2	3	3	9	3	2	0	4	7
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
7	1	5	6	0	9	0	3	1	4	2	1
2	1	0	1	0	0	30	0	1	0	0	0
0	0	0	6	0	0	0	55	0	0	2	0
0	0	0	0	0	0	0	0	0	0	0	0
3	1	2	33	0	9	12	1	1	2	6	2
3	1	1	4	0	19	60	2	0	2	17	7
0	1	1	1	2	10	36	0	3	0	2	6
1	1	3	1	2	6	20	0	1	0	1	0
1	1	3	4	1	10	16	2	8	1	3	2
0	0	0	0	0	0	0	0	0	0	0	0
2	0	3	5	0	2	1	1	0	2	7	2
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	2	0	0	0	3
-	-	-	-	-	-	-	-	-	-	-	-
<b>2,981</b>	<b>3,000</b>	<b>3,357</b>	<b>9,586</b>	<b>749</b>	<b>3,787</b>	<b>11,913</b>	<b>5,359</b>	<b>3,592</b>	<b>464</b>	<b>2,883</b>	<b>954</b>
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
855	1,336	7,128	12,220	1,031	7,032	26,603	3,220	4,056	420	1,024	1,249
-	-	-	-	-	-	-	-	-	-	-	-
<b>3,836</b>	<b>4,336</b>	<b>10,485</b>	<b>21,806</b>	<b>1,780</b>	<b>10,819</b>	<b>38,515</b>	<b>8,579</b>	<b>7,648</b>	<b>884</b>	<b>3,907</b>	<b>2,202</b>

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Table A7.1 Import Industry *continued*

			Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31	
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0	
Mining and quarrying	m2	0	0	0	1	0	
Food, beverages, and tobacco	m3	0	0	0	16	6	
Textiles and textile products	m4	8	2	0	9	1	
Leather, leather products, and footwear	m5	0	0	0	2	0	
Wood and products of wood and cork	m6	3	0	8	1	4	
Pulp, paper, paper products, printing, and publishing	m7	8	163	6	203	14	
Coke, refined petroleum, and nuclear fuel	m8	18	41	20	72	15	
Chemicals and chemical products	m9	22	53	10	42	5	
Rubber and plastics	m10	5	3	0	9	10	
Other nonmetallic minerals	m11	0	0	4	6	1	
Basic metals and fabricated metal	m12	36	0	1	17	18	
Machinery, nec	m13	0	0	0	9	0	
Electrical and optical equipment	m14	315	4	2	72	16	
Transport equipment	m15	0	0	0	0	0	
Manufacturing, nec; recycling	m16	2	3	1	11	0	
Electricity, gas, and water supply	m17	0	0	0	0	0	
Construction	m18	0	0	0	0	0	
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	2	0	4	2	
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	1	0	
Hotels and restaurants	m22	16	42	5	70	30	
Inland transport	m23	0	0	0	0	0	
Water transport	m24	6	3	1	1	1	
Air transport	m25	20	68	1	45	2	
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	2	1	
Post and telecommunications	m27	11	6	0	15	14	
Financial intermediation	m28	7	56	13	68	36	
Real estate activities	m29	0	0	0	0	0	
Renting of M&Eq and other business activities	m30	9	29	3	24	7	
Public administration and defense; compulsory social security	m31	0	0	0	0	19	
Education	m32	0	0	0	2	0	
Health and social work	m33	0	0	0	0	6	
Other community, social, and personal services	m34	0	3	0	47	1	
Private households with employed persons	m35	-	-	-	-	-	
Total intermediate consumption	r60	3,305	6,115	873	10,781	3,927	
Taxes less subsidies on products	r99	-	-	-	-	-	
Cif/fob adjustments on exports	r61	-	-	-	-	-	
Direct purchases abroad by residents	r62	-	-	-	-	-	
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	
Value added at basic prices	r64	6,246	13,798	3,966	17,739	8,253	
International transport margins		-	-	-	-	-	
Output at basic prices	r69	9,551	19,913	4,839	28,520	12,181	

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Table A7.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
0	2	0	0	122	-	0	73	12	-	749
0	0	0	0	9	-	0	0	56	-	5,856
4	31	0	0	2,814	-	0	0	169	-	4,498
14	17	110	0	1,610	-	0	0	77	-	2,704
0	0	18	-	113	-	0	0	(99)	-	162
0	1	14	0	127	-	0	0	1	-	1,484
131	15	64	0	232	-	0	8	142	-	1,932
28	4	48	0	407	-	-	0	136	-	4,057
27	177	86	0	589	-	0	1	259	-	5,071
2	3	4	0	372	-	0	1	105	-	894
1	1	0	0	7	-	0	0	7	-	171
2	4	3	0	4	-	0	36	(120)	-	3,163
0	0	11	0	0	-	0	1,197	(69)	-	1,283
38	28	81	0	332	-	0	2,042	1,117	-	11,885
4	0	1	0	1,307	-	-	2,321	(42)	-	3,699
4	1	17	0	313	-	0	42	29	-	511
0	0	0	0	0	-	0	0	0	-	0
0	0	0	0	0	-	0	15	(0)	-	16
0	0	0	0	0	-	0	0	0	-	0
2	5	3	0	52	-	0	45	(10)	-	280
0	1	0	0	16	-	0	0	24	-	104
21	2	41	0	1,083	-	0	0	70	-	1,461
0	0	0	0	12	-	0	0	(0)	-	16
1	1	1	-	640	-	-	2	62	-	863
21	13	9	-	1,119	-	-	2	(12)	-	1,449
0	1	0	-	63	-	0	0	(1)	-	151
1	0	2	0	134	-	0	0	(6)	-	254
15	9	7	0	413	-	-	0	44	-	772
0	0	0	0	0	-	0	0	0	-	0
3	3	7	0	85	-	0	36	99	-	361
0	0	0	-	0	-	275	0	(6)	-	288
6	12	0	0	567	-	598	0	27	-	1,212
0	17	0	-	256	-	180	0	17	-	481
1	0	30	0	220	-	0	6	16	-	331
-	-	-	0	1	-	-	0	0	-	1
1,805	2,724	3,722	4	142,808	-	19,404	40,961	36	52,542	453,467
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
7,874	2,782	4,681	34	-	-	-	-	-	-	199,591
-	-	-	-	-	-	-	-	-	-	-
9,680	5,506	8,403	39	142,808	-	19,404	40,961	36	52,542	653,058

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table A7.2: Philippines Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	3,717	1	25,994	27	10	113	29
Mining and quarrying	c2	0	0	113	–	0	–	–
Food, beverages, and tobacco	c3	3,092	3	18,128	206	42	36	248
Textiles and textile products	c4	68	0	131	559	113	9	29
Leather, leather products, and footwear	c5	0	0	3	112	9	4	2
Wood and products of wood and cork	c6	15	4	17	2	0	20	13
Pulp, paper, paper products, printing, and publishing	c7	26	17	581	32	2	12	699
Coke, refined petroleum, and nuclear fuel	c8	277	124	487	155	2	38	52
Chemicals and chemical products	c9	2,478	122	2,527	239	9	147	449
Rubber and plastics	c10	6	7	103	93	35	0	12
Other nonmetallic minerals	c11	5	18	457	0	–	1	2
Basic metals and fabricated metal	c12	107	69	111	8	2	9	45
Machinery, nec	c13	0	–	–	–	–	–	–
Electrical and optical equipment	c14	130	27	71	16	5	4	17
Transport equipment	c15	–	0	–	–	–	–	–
Manufacturing, nec; recycling	c16	7	11	182	8	4	6	24
Electricity, gas, and water supply	c17	251	105	1,066	81	20	26	154
Construction	c18	–	–	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	10	1	336	20	2	8	38
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	139	7	932	73	6	63	130
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,018	55	6,813	536	42	457	776
Hotels and restaurants	c22	2	0	96	1	–	–	–
Inland transport	c23	339	28	170	9	1	2	11
Water transport	c24	26	1	0	1	–	0	0
Air transport	c25	14	0	42	3	0	2	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	89	43	112	8	1	14	8
Post and telecommunications	c27	113	27	396	28	2	14	33
Financial intermediation	c28	912	28	579	39	4	11	15
Real estate activities	c29	27	1	41	11	0	1	16
Renting of M&Eq and other business activities	c30	575	121	506	67	3	15	108
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–	–
Education	c32	–	–	–	–	–	–	–
Health and social work	c33	93	0	1	–	–	–	–
Other community, social, and personal services	c34	29	1	7	0	0	0	4
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A7.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
0	451	138	4	0	–	–	0	239	0	67	–	245
1,494	1	–	282	737	–	30	–	36	190	224	–	116
–	81	–	19	–	2	46	1	530	–	1,125	1	297
0	28	15	12	4	1	40	1	82	2	17	4	16
–	4	1	–	0	0	5	0	46	1	24	0	1
0	30	1	17	4	3	7	1	309	0	746	0	1
8	335	10	35	19	21	90	4	70	29	49	3	20
372	1,292	216	309	491	141	191	34	47	298	576	23	77
15	7,593	458	278	230	40	378	102	244	74	153	12	74
–	2	107	24	6	20	19	55	9	4	52	2	23
–	83	1	527	3	4	67	7	8	4	2,035	0	1
14	60	10	54	1,199	448	474	363	97	39	3,690	2	49
–	–	–	–	–	27	–	39	–	1	–	–	2
4	57	6	23	30	7	10,205	249	37	160	152	101	22
–	–	–	–	–	–	–	25	–	0	1	0	1
1	29	3	19	1	1	22	3	135	4	26	20	17
1	362	91	286	338	72	680	45	61	2,262	158	91	39
–	–	–	–	–	–	–	–	–	–	–	–	–
5	60	10	13	33	13	167	39	8	24	36	582	30
22	219	35	55	97	43	337	200	27	3	115	1	1,527
163	1,638	258	401	710	315	2,461	1,502	198	22	843	8	2,020
–	–	–	–	–	–	1	–	–	0	37	–	0
9	84	4	28	31	50	375	14	4	25	224	11	133
–	0	0	–	0	4	1	–	0	1	28	0	2
0	15	0	0	–	–	8	1	2	0	15	–	57
6	19	3	18	22	9	45	7	9	16	29	39	174
6	57	5	34	31	11	390	56	25	83	46	76	212
21	120	13	34	34	9	102	21	19	82	112	55	183
0	7	2	3	5	5	29	0	27	26	39	0	14
19	201	35	106	122	54	292	87	83	268	624	54	135
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
0	2	0	0	5	–	1	0	0	0	29	0	0
–	–	–	–	–	–	–	–	–	–	–	–	–

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Table A7.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	826	767	–	0	–	–
Mining and quarrying	c2	228	0	1	–	–	–
Food, beverages, and tobacco	c3	1,000	6,150	–	9	67	17
Textiles and textile products	c4	54	30	8	0	9	32
Leather, leather products, and footwear	c5	5	0	1	–	4	4
Wood and products of wood and cork	c6	3	1	13	0	–	1
Pulp, paper, paper products, printing, and publishing	c7	69	32	14	0	17	23
Coke, refined petroleum, and nuclear fuel	c8	258	15	1,002	161	1,092	60
Chemicals and chemical products	c9	249	48	75	1	14	56
Rubber and plastics	c10	78	10	103	0	40	1
Other nonmetallic minerals	c11	3	35	–	–	–	0
Basic metals and fabricated metal	c12	164	2	205	1	8	80
Machinery, nec	c13	7	0	0	0	–	3
Electrical and optical equipment	c14	74	32	372	10	6	67
Transport equipment	c15	3	–	–	0	33	2
Manufacturing, nec; recycling	c16	263	36	32	2	41	85
Electricity, gas, and water supply	c17	132	666	62	2	61	64
Construction	c18	–	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	102	11	251	45	137	10
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	7	90	8	7	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	11,559	52	572	46	111	13
Hotels and restaurants	c22	2	405	–	–	15	–
Inland transport	c23	447	4	232	0	–	100
Water transport	c24	7	–	0	–	5	2
Air transport	c25	193	9	2	0	77	44
Other supporting and auxiliary transport activities; activities of travel agencies	c26	586	4	53	1	43	160
Post and telecommunications	c27	714	7	29	10	32	28
Financial intermediation	c28	616	109	351	38	168	120
Real estate activities	c29	46	31	1	17	296	95
Renting of M&Eq and other business activities	c30	454	165	48	68	1,305	449
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–
Education	c32	–	–	–	–	–	–
Health and social work	c33	–	–	7	0	–	–
Other community, social, and personal services	c34	0	72	1	0	8	154
Private households with employed persons	c35	–	–	–	–	–	–

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Table A7.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
-	-	-	-	2	21	113	-	-	6,661	-
-	-	2	3	-	0	-	-	-	16	-
10	142	18	529	116	181	705	142	0	52,120	-
11	3	-	20	1	28	40	197	0	2,892	-
1	-	-	5	0	1	1	50	-	259	-
2	-	11	1	3	0	1	16	0	148	-
14	373	18	510	29	258	39	147	0	497	-
41	133	77	258	46	87	13	159	0	2,123	-
69	227	54	179	18	109	807	362	0	3,865	-
10	8	0	29	25	4	8	13	0	1,268	-
3	-	123	157	14	18	15	0	-	141	-
64	-	3	56	54	3	10	1	0	12	-
-	-	-	7	-	-	-	8	-	-	-
504	7	6	192	1	85	74	161	0	627	-
0	-	-	-	-	2	-	1	-	589	-
12	28	6	100	0	30	12	132	0	2,128	-
139	337	40	1,891	94	311	580	596	1	2,934	-
-	-	-	-	-	-	-	-	-	159	-
67	8	18	3	11	2	3	167	-	320	-
35	3	0	105	31	8	81	14	0	12,664	-
255	19	2	768	229	64	590	102	0	21,525	-
73	269	38	500	187	126	18	270	3	7,152	-
28	-	43	548	25	34	17	90	0	7,980	-
4	3	1	-	0	0	-	-	-	1,063	-
65	299	6	217	7	87	63	40	-	5,335	-
7	5	0	39	13	0	16	1	-	1,630	-
312	271	22	785	589	63	25	114	0	6,237	-
226	2,621	976	3,555	1,454	622	497	345	0	19,483	-
171	796	35	1,192	63	20	20	62	0	7,462	-
992	4,397	397	5,190	694	63	299	617	0	14,727	-
-	-	-	-	1,844	-	-	-	-	-	-
-	-	1	35	-	86	208	3	-	8,396	-
-	-	-	-	117	1	436	-	-	6,446	-
0	109	7	2,073	39	50	20	1,185	-	8,242	-
-	-	-	-	-	-	-	-	1	59	-

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Table A7.2 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Domestic</b>						
Agriculture, hunting, forestry, and fishing	c1	–	4,431	(61)	1,336	<b>45,129</b>
Mining and quarrying	c2	–	–	50	282	<b>3,804</b>
Food, beverages, and tobacco	c3	–	11	(2)	11,467	<b>96,538</b>
Textiles and textile products	c4	–	–	(1)	1,063	<b>5,517</b>
Leather, leather products, and footwear	c5	–	–	14	153	<b>712</b>
Wood and products of wood and cork	c6	–	–	(15)	227	<b>1,607</b>
Pulp, paper, paper products, printing, and publishing	c7	–	27	(1)	337	<b>4,466</b>
Coke, refined petroleum, and nuclear fuel	c8	–	–	25	364	<b>11,115</b>
Chemicals and chemical products	c9	–	–	(1)	1,035	<b>22,788</b>
Rubber and plastics	c10	–	–	(0)	435	<b>2,613</b>
Other nonmetallic minerals	c11	–	–	31	1,434	<b>5,197</b>
Basic metals and fabricated metal	c12	–	83	(16)	2,581	<b>10,161</b>
Machinery, nec	c13	–	1,024	(58)	1,706	<b>2,768</b>
Electrical and optical equipment	c14	–	7,074	(6)	16,417	<b>37,024</b>
Transport equipment	c15	–	2,581	3	1,663	<b>4,905</b>
Manufacturing, nec; recycling	c16	–	660	(191)	439	<b>4,332</b>
Electricity, gas, and water supply	c17	–	–	71	11	<b>14,181</b>
Construction	c18	–	38,759	(237)	288	<b>38,968</b>
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	–	366	2	<b>2,959</b>
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	–	8	256	<b>17,351</b>
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	5,816	105	2,614	<b>64,680</b>
Hotels and restaurants	c22	–	–	63	6,012	<b>15,270</b>
Inland transport	c23	–	401	1	275	<b>11,777</b>
Water transport	c24	–	–	(0)	80	<b>1,228</b>
Air transport	c25	–	–	(0)	489	<b>7,092</b>
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	45	1,412	<b>4,683</b>
Post and telecommunications	c27	–	–	(2)	704	<b>11,585</b>
Financial intermediation	c28	–	–	2,385	637	<b>36,594</b>
Real estate activities	c29	–	–	588	42	<b>11,190</b>
Renting of M&Eq and other business activities	c30	1,504	810	22	19,120	<b>54,794</b>
Public administration and defense; compulsory social security	c31	20,964	–	(4,295)	375	<b>18,888</b>
Education	c32	6,818	–	(496)	61	<b>15,112</b>
Health and social work	c33	3,262	–	(3)	54	<b>10,415</b>
Other community, social, and personal services	c34	–	355	(0)	925	<b>13,321</b>
Private households with employed persons	c35	–	–	–	3	<b>63</b>

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Table A7.2 Imports Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	300	0	1,896	2	1	9	2
Mining and quarrying	m2	0	0	89	0	0	0	0
Food, beverages, and tobacco	m3	313	0	1,776	23	4	4	30
Textiles and textile products	m4	60	0	94	440	84	8	27
Leather, leather products, and footwear	m5	0	0	3	113	8	4	3
Wood and products of wood and cork	m6	5	2	5	1	0	7	5
Pulp, paper, paper products, printing, and publishing	m7	6	5	119	7	0	3	156
Coke, refined petroleum, and nuclear fuel	m8	301	192	523	163	2	43	61
Chemicals and chemical products	m9	126	7	102	12	1	6	20
Rubber and plastics	m10	6	10	98	87	32	0	13
Other nonmetallic minerals	m11	0	2	40	0	0	0	0
Basic metals and fabricated metal	m12	82	61	80	6	2	7	35
Machinery, nec	m13	1	0	0	0	0	0	0
Electrical and optical equipment	m14	133	33	70	16	5	4	18
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	2	4	41	1	0	2	7
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	10	0	13	4	0	1	3
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	39	3	247	21	2	18	32
Hotels and restaurants	m22	1	0	30	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	14	0	6	1	0	1	1
Air transport	m25	7	0	16	2	0	1	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	6	4	7	1	0	1	1
Post and telecommunications	m27	4	1	14	1	0	1	1
Financial intermediation	m28	41	1	24	2	0	0	1
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	25	5	17	2	0	1	5
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	9	0	0	0	0	0	0
Other community, social, and personal services	m34	2	0	0	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	15,058	1,154	65,313	3,240	456	1,132	3,338
Taxes less subsidies on products	r99	–	–	–	–	–	–	–
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	30,072	2,650	31,225	2,278	256	475	1,128
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	45,129	3,804	96,538	5,517	712	1,607	4,466

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Table A7.2 Imports Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	42	12	0	0	0	0
Mining and quarrying	m2	5,272	2	0	657	1,785	0	50
Food, beverages, and tobacco	m3	0	9	0	2	0	0	6
Textiles and textile products	m4	0	23	12	8	6	2	39
Leather, leather products, and footwear	m5	0	4	1	0	0	0	5
Wood and products of wood and cork	m6	0	11	0	5	2	1	3
Pulp, paper, paper products, printing, and publishing	m7	3	83	2	7	5	6	22
Coke, refined petroleum, and nuclear fuel	m8	760	1,586	249	309	1,084	189	232
Chemicals and chemical products	m9	13	384	56	10	15	4	22
Rubber and plastics	m10	0	3	111	22	11	24	20
Other nonmetallic minerals	m11	0	9	0	45	1	1	7
Basic metals and fabricated metal	m12	21	53	8	39	1,017	395	377
Machinery, nec	m13	0	0	0	0	0	97	0
Electrical and optical equipment	m14	7	63	6	21	41	16	11,976
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	0	11	1	7	0	0	8
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	7	16	6	1	5	2	67
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	12	74	10	16	52	15	108
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	3	2	1	1	2	3	6
Air transport	m25	1	7	1	0	1	1	17
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	2	0	1	3	1	4
Post and telecommunications	m27	0	2	0	1	2	0	16
Financial intermediation	m28	2	6	1	1	2	1	6
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	1	8	2	4	6	2	16
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	1	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	8,264	15,232	1,900	3,738	8,195	2,063	29,472
Taxes less subsidies on products	r99	–	–	–	–	–	–	–
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	2,852	7,556	713	1,460	1,966	705	7,552
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	11,115	22,788	2,613	5,197	10,161	2,768	37,024

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Table A7.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	21	0	8	0	38	104	56	0	0	0	0
0	53	80	357	0	60	111	0	0	0	0	0
0	69	0	168	0	36	107	551	0	1	5	2
1	69	3	18	4	18	53	22	6	0	6	28
0	48	1	32	0	2	5	0	1	0	3	4
1	123	0	352	0	0	1	0	4	0	0	0
1	17	7	14	1	4	14	6	3	0	3	5
44	57	604	864	27	138	388	16	1,307	183	1,415	83
9	11	4	10	1	3	14	3	3	1	0	3
66	10	7	67	3	36	101	10	115	1	44	2
1	1	1	246	0	0	0	3	0	0	0	0
294	73	32	3,227	1	38	118	2	139	0	5	63
133	0	2	0	0	7	21	0	0	0	0	9
280	40	184	192	111	22	74	30	369	14	7	71
65	0	0	3	0	2	6	0	0	0	58	6
1	43	1	8	7	6	81	11	8	0	9	26
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
13	1	2	6	0	12	0	5	2	3	1	0
69	8	1	44	0	119	571	2	23	2	4	1
0	0	0	18	0	0	1	129	0	0	5	0
0	0	0	0	0	0	0	0	0	0	0	0
3	0	1	19	0	5	4	1	0	1	2	1
3	1	1	7	0	31	74	3	1	1	25	17
1	1	1	3	3	15	45	0	4	0	3	12
2	1	4	2	2	13	28	0	1	0	1	1
2	1	4	7	2	14	26	4	14	2	6	6
0	0	0	0	0	0	0	0	0	0	0	0
5	3	11	28	2	6	16	5	2	3	40	17
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	0	0
0	0	0	2	0	0	0	4	0	0	0	10
–	–	–	–	–	–	–	–	–	–	–	–
<b>3,850</b>	<b>3,004</b>	<b>4,568</b>	<b>16,974</b>	<b>1,250</b>	<b>6,116</b>	<b>20,102</b>	<b>9,564</b>	<b>5,528</b>	<b>631</b>	<b>5,242</b>	<b>2,036</b>
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
1,054	1,328	9,613	21,994	1,709	11,235	44,578	5,706	6,249	597	1,849	2,648
–	–	–	–	–	–	–	–	–	–	–	–
<b>4,905</b>	<b>4,332</b>	<b>14,181</b>	<b>38,968</b>	<b>2,959</b>	<b>17,351</b>	<b>64,680</b>	<b>15,270</b>	<b>11,777</b>	<b>1,228</b>	<b>7,092</b>	<b>4,683</b>

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Table A7.2 Imports Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0
Mining and quarrying	m2	0	0	1	3	0
Food, beverages, and tobacco	m3	1	19	2	56	13
Textiles and textile products	m4	12	4	0	19	1
Leather, leather products, and footwear	m5	1	0	0	6	0
Wood and products of wood and cork	m6	1	0	3	0	1
Pulp, paper, paper products, printing, and publishing	m7	3	88	3	108	6
Coke, refined petroleum, and nuclear fuel	m8	52	187	101	278	53
Chemicals and chemical products	m9	3	11	2	30	2
Rubber and plastics	m10	11	10	0	28	26
Other nonmetallic minerals	m11	0	0	13	14	1
Basic metals and fabricated metal	m12	53	0	2	41	45
Machinery, nec	m13	0	0	0	21	0
Electrical and optical equipment	m14	578	7	6	199	9
Transport equipment	m15	0	0	0	0	0
Manufacturing, nec; recycling	m16	4	10	2	31	0
Electricity, gas, and water supply	m17	0	0	0	0	0
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1	1	0	7	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	11	1	0	30	11
Hotels and restaurants	m22	29	138	14	182	73
Inland transport	m23	0	0	0	0	0
Water transport	m24	2	2	0	1	0
Air transport	m25	25	147	2	76	3
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	0	0	3	1
Post and telecommunications	m27	12	12	1	28	25
Financial intermediation	m28	11	140	39	156	64
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	38	188	12	179	22
Public administration and defense; compulsory social security	m31	0	0	0	0	40
Education	m32	0	0	0	7	0
Health and social work	m33	0	0	0	0	11
Other community, social, and personal services	m34	0	9	0	125	2
Private households with employed persons	m35	–	–	–	–	–
Total intermediate consumption	r60	3,964	11,032	2,108	20,578	6,122
Taxes less subsidies on products	r99	–	–	–	–	–
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	7,621	25,562	9,081	34,217	12,766
International transport margins		–	–	–	–	–
Output at basic prices	r69	11,585	36,594	11,190	54,794	18,888

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Table A7.2 Imports Industry *continued*

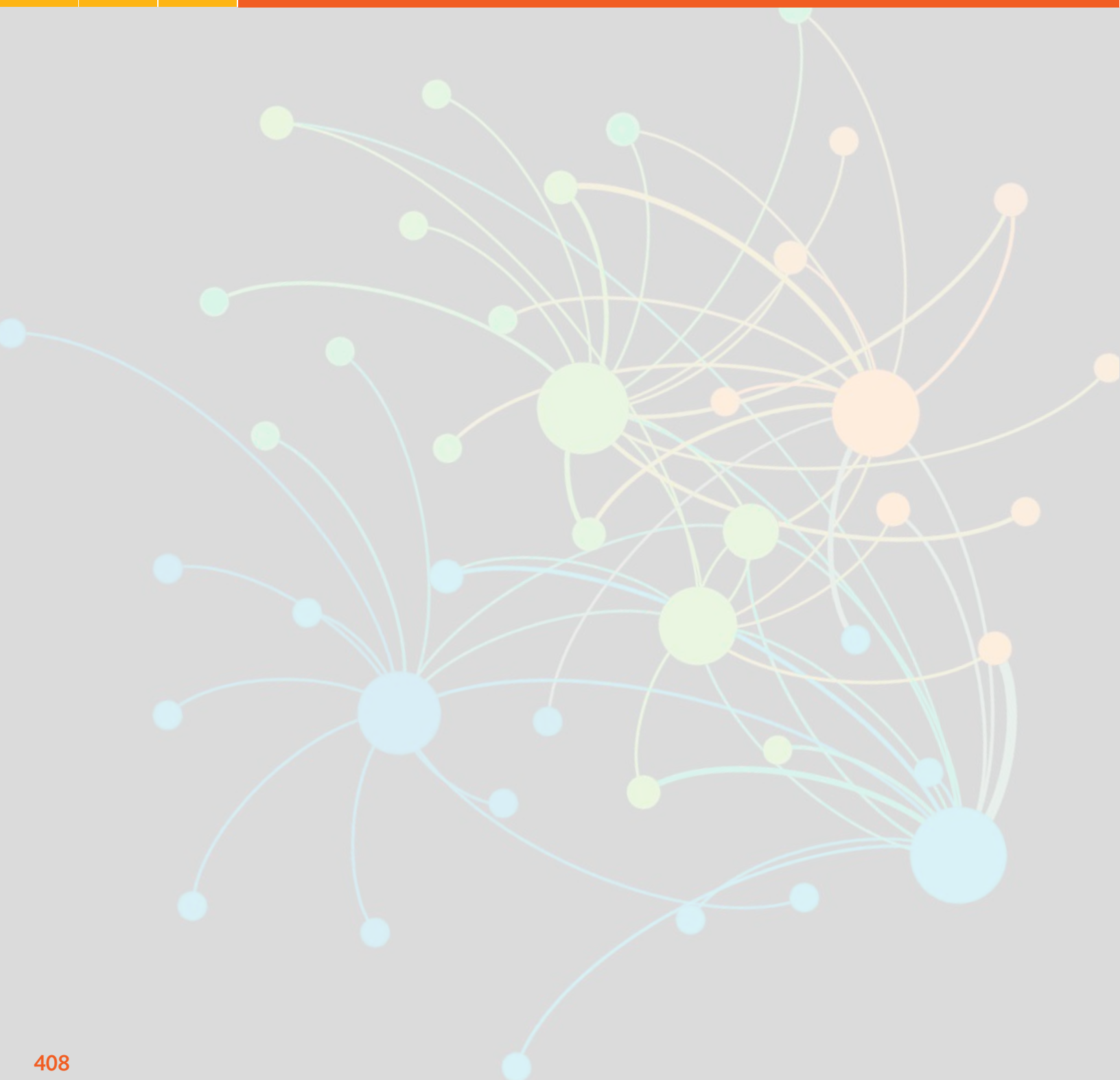
Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
2	8	0	0	526	–	0	308	(1)	–	3,334
0	0	0	0	19	–	0	0	(3)	–	8,537
20	73	16	0	5,063	–	0	1	(1)	–	8,370
28	36	204	0	2,091	–	0	0	(4)	–	3,420
1	1	57	–	219	–	0	0	0	–	525
0	0	6	0	47	–	0	0	(3)	–	586
56	8	33	0	104	–	0	5	(0)	–	914
90	12	165	0	2,014	–	–	0	5	–	13,777
10	84	19	0	217	–	0	1	1	–	1,220
4	8	12	0	1,108	–	0	1	(6)	–	2,102
2	1	1	–	15	–	0	0	0	–	405
2	7	1	0	8	–	0	57	(12)	–	6,381
0	0	24	0	0	–	0	2,871	(61)	–	3,127
92	69	168	0	690	–	0	7,087	27	–	22,737
5	0	1	0	1,258	–	0	5,496	3	–	6,904
10	4	44	0	558	–	0	221	(16)	–	1,154
0	0	0	0	0	–	0	0	0	–	0
0	0	0	0	0	–	0	64	(0)	–	65
0	0	0	0	0	–	0	0	0	–	0
3	8	3	0	120	–	0	54	4	–	386
3	19	4	0	665	–	0	235	(2)	–	2,469
49	6	107	1	2,408	–	0	0	(8)	–	3,184
0	0	0	0	12	–	0	1	(256)	–	(239)
1	1	1	–	458	–	–	2	143	–	690
32	19	15	–	1,598	–	0	3	(0)	–	2,138
0	1	0	–	99	–	0	0	0	–	223
2	1	4	0	207	–	0	0	(0)	–	395
28	20	16	0	783	–	–	0	(27)	–	1,405
0	0	0	0	0	–	0	0	0	–	2
7	10	22	0	462	–	65	30	0	–	1,267
0	0	0	–	0	–	562	0	(9)	–	593
19	36	1	0	1,472	–	1,959	0	(15)	–	3,479
0	34	0	–	543	–	374	0	(0)	–	973
3	1	77	0	441	–	0	23	(1)	–	702
–	–	–	0	5	–	–	–	–	–	5
<b>2,835</b>	<b>5,175</b>	<b>5,992</b>	<b>7</b>	<b>228,370</b>	<b>–</b>	<b>35,508</b>	<b>78,493</b>	<b>(1,849)</b>	<b>74,301</b>	<b>710,055</b>
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
12,277	5,240	7,329	55	–	–	–	–	–	–	313,595
–	–	–	–	–	–	–	–	–	–	–
<b>15,112</b>	<b>10,415</b>	<b>13,321</b>	<b>63</b>	<b>228,370</b>	<b>–</b>	<b>35,508</b>	<b>78,493</b>	<b>(1,849)</b>	<b>74,301</b>	<b>1,023,650</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

# A8

## APPENDIX 8: INPUT-OUTPUT TABLES FOR 2010 AND 2017—SINGAPORE



**Table A8.1: Singapore Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	2	–	56	0	1	0	0
Mining and quarrying	c2	–	–	–	–	–	–	–
Food, beverages, and tobacco	c3	3	–	1,528	2	0	0	3
Textiles and textile products	c4	0	–	0	134	0	0	2
Leather, leather products, and footwear	c5	0	–	0	0	22	0	0
Wood and products of wood and cork	c6	0	–	3	0	0	48	0
Pulp, paper, paper products, printing, and publishing	c7	0	–	45	2	0	1	416
Coke, refined petroleum, and nuclear fuel	c8	3	–	17	1	0	1	109
Chemicals and chemical products	c9	1	–	112	4	0	4	36
Rubber and plastics	c10	2	–	38	2	0	1	26
Other nonmetallic minerals	c11	0	–	0	0	0	0	0
Basic metals and fabricated metal	c12	0	–	24	0	0	0	8
Machinery, nec	c13	0	–	10	0	0	0	8
Electrical and optical equipment	c14	0	–	16	1	0	1	14
Transport equipment	c15	0	–	2	0	0	0	1
Manufacturing, nec; recycling	c16	0	–	0	0	0	0	6
Electricity, gas, and water supply	c17	13	–	74	3	1	2	47
Construction	c18	2	–	11	1	0	1	6
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	–	5	0	0	1	2
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	6	–	256	11	2	9	97
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	–	51	2	0	2	18
Hotels and restaurants	c22	3	–	17	2	0	1	7
Inland transport	c23	3	–	25	1	0	0	6
Water transport	c24	1	–	40	7	0	2	29
Air transport	c25	4	–	15	3	0	1	9
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	–	33	3	0	2	18
Post and telecommunications	c27	2	–	113	2	0	1	12
Financial intermediation	c28	5	–	28	5	0	2	19
Real estate activities	c29	2	–	85	11	1	3	54
Renting of M&Eq and other business activities	c30	9	–	205	5	1	2	50
Public administration and defense; compulsory social security	c31	1	–	9	1	0	0	3
Education	c32	0	–	1	0	0	0	0
Health and social work	c33	0	–	0	0	0	0	0
Other community, social, and personal services	c34	0	–	6	0	0	0	2
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A8.1 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Industry								
Domestic								
Agriculture, hunting, forestry, and fishing	c1	0	0	0	0	0	0	1
Mining and quarrying	c2	-	-	-	-	-	-	-
Food, beverages, and tobacco	c3	12	148	0	0	2	2	19
Textiles and textile products	c4	1	0	0	0	1	0	9
Leather, leather products, and footwear	c5	0	0	0	0	0	0	5
Wood and products of wood and cork	c6	0	0	0	2	0	0	13
Pulp, paper, paper products, printing, and publishing	c7	7	8	10	4	55	20	105
Coke, refined petroleum, and nuclear fuel	c8	9,126	465	224	39	44	54	253
Chemicals and chemical products	c9	314	1,056	18	20	41	19	164
Rubber and plastics	c10	29	30	479	1	23	55	294
Other nonmetallic minerals	c11	4	4	0	437	5	3	51
Basic metals and fabricated metal	c12	34	16	26	6	809	256	578
Machinery, nec	c13	23	7	30	3	29	2,154	541
Electrical and optical equipment	c14	191	27	11	9	66	266	15,696
Transport equipment	c15	32	2	1	1	4	135	28
Manufacturing, nec; recycling	c16	1	0	1	1	32	0	5
Electricity, gas, and water supply	c17	1,149	286	62	69	152	116	940
Construction	c18	37	23	6	3	39	26	167
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	15	2	1	3	8	4	24
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	3,128	298	47	75	242	312	2,665
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	58	58	8	12	41	44	239
Hotels and restaurants	c22	24	16	5	7	20	17	80
Inland transport	c23	65	15	5	7	25	33	152
Water transport	c24	267	51	17	27	53	85	420
Air transport	c25	55	31	5	9	17	23	173
Other supporting and auxiliary transport activities; activities of travel agencies	c26	250	49	15	15	37	54	335
Post and telecommunications	c27	73	20	6	3	19	36	116
Financial intermediation	c28	181	111	16	12	61	95	536
Real estate activities	c29	103	37	37	27	66	101	225
Renting of M&Eq and other business activities	c30	780	221	48	64	162	356	2,419
Public administration and defense; compulsory social security	c31	40	18	3	4	7	9	37
Education	c32	3	3	0	0	1	3	8
Health and social work	c33	1	0	0	0	0	1	2
Other community, social, and personal services	c34	6	6	1	1	4	6	78
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A8.1 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
0	0	0	5	0	2	0	25	0	1	0	0
-	-	-	-	-	-	-	-	-	-	-	-
1	1	1	11	0	14	4	974	2	195	1	35
1	1	1	14	0	3	3	10	3	2	1	2
0	1	0	8	0	0	0	0	0	0	0	0
3	47	0	71	0	0	1	1	0	2	0	0
8	4	5	18	1	126	16	26	3	3	5	21
16	13	234	219	48	176	23	90	239	611	587	105
14	8	48	143	18	50	9	7	2	57	3	39
6	19	10	135	10	48	9	22	5	11	1	36
5	0	4	1,090	0	9	1	2	0	1	0	1
100	20	23	1,382	4	187	4	3	1	17	2	15
223	3	8	696	3	25	31	14	2	24	2	39
26	9	39	371	14	205	22	25	7	75	31	65
2,453	1	7	44	12	55	6	5	32	207	476	75
4	300	2	214	1	14	5	22	0	3	0	2
118	13	2,466	102	4	276	190	464	73	34	8	229
55	59	81	13,978	1	60	27	70	15	37	2	38
40	2	3	57	13	87	15	3	183	17	0	22
192	87	162	977	16	864	72	265	66	461	206	100
39	17	5	94	5	328	129	52	38	59	38	24
13	5	9	113	3	199	39	76	7	563	448	329
21	6	5	78	1	426	41	30	755	138	107	113
25	5	12	46	0	3,743	128	3	51	3,592	6	620
21	7	9	25	1	806	16	4	8	7	810	186
43	7	25	291	2	2,125	162	55	186	1,896	684	1,951
52	10	24	239	6	799	77	47	225	157	135	309
118	17	165	297	13	2,253	424	181	97	299	119	228
131	24	127	302	28	1,048	1,891	776	47	64	109	339
485	43	453	1,278	12	3,510	530	636	164	1,085	182	679
19	8	76	88	1	155	79	35	5	20	31	29
4	0	3	4	0	7	8	9	2	3	5	5
0	0	1	5	0	6	10	4	1	4	1	2
13	2	2	24	2	109	28	43	5	60	12	28
-	-	-	-	-	-	-	-	-	-	-	-

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Table A8.1 Domestic Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	1	1	1	7	1
Mining and quarrying	c2	-	-	-	-	-
Food, beverages, and tobacco	c3	7	43	4	21	23
Textiles and textile products	c4	1	1	0	9	3
Leather, leather products, and footwear	c5	0	0	0	0	1
Wood and products of wood and cork	c6	0	0	1	2	0
Pulp, paper, paper products, printing, and publishing	c7	29	76	9	425	46
Coke, refined petroleum, and nuclear fuel	c8	37	76	24	504	97
Chemicals and chemical products	c9	12	19	3	211	25
Rubber and plastics	c10	8	27	2	91	16
Other nonmetallic minerals	c11	1	1	0	54	3
Basic metals and fabricated metal	c12	3	4	3	271	299
Machinery, nec	c13	11	8	181	419	110
Electrical and optical equipment	c14	287	82	13	1,488	135
Transport equipment	c15	4	9	3	43	185
Manufacturing, nec; recycling	c16	6	5	4	47	2
Electricity, gas, and water supply	c17	109	112	394	240	560
Construction	c18	27	33	908	303	104
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	2	3	3	19	4
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	107	107	88	553	480
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	24	24	55	166	117
Hotels and restaurants	c22	31	135	19	180	39
Inland transport	c23	20	90	14	304	23
Water transport	c24	17	5	5	113	22
Air transport	c25	11	92	21	143	28
Other supporting and auxiliary transport activities; activities of travel agencies	c26	107	257	256	294	46
Post and telecommunications	c27	1,774	786	61	1,033	81
Financial intermediation	c28	192	8,418	4,422	701	2,843
Real estate activities	c29	173	864	1,023	1,175	375
Renting of M&Eq and other business activities	c30	1,239	2,144	2,617	6,894	1,681
Public administration and defense; compulsory social security	c31	36	96	43	162	377
Education	c32	2	12	4	87	1,413
Health and social work	c33	2	13	3	41	2,077
Other community, social, and personal services	c34	13	52	9	144	27
Private households with employed persons	c35	-	-	-	-	-

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Table A8.1 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
0	1	2	–	20	–	0	0	(0)	60	<b>188</b>
–	–	–	–	–	–	–	–	–	–	–
1	18	30	–	1,180	–	0	31	220	2,779	<b>7,316</b>
2	2	3	–	6	–	0	2	8	430	<b>654</b>
0	0	0	–	5	–	0	0	6	47	<b>99</b>
1	0	0	–	1	–	0	2	0	36	<b>236</b>
50	18	29	–	246	–	0	6	1	1,513	<b>3,360</b>
19	131	61	–	818	–	1	47	178	38,338	<b>53,027</b>
8	465	42	–	27	–	1	127	(399)	17,057	<b>19,787</b>
17	8	12	–	12	–	0	23	11	950	<b>2,469</b>
2	1	3	–	2	–	0	10	4	299	<b>1,998</b>
2	2	4	–	19	–	0	73	(179)	4,112	<b>8,126</b>
2	3	10	–	7	–	0	1,372	(706)	8,018	<b>13,311</b>
75	300	104	–	376	–	4	3,391	1,560	62,507	<b>87,509</b>
2	2	3	–	28	–	0	1,097	33	8,903	<b>13,893</b>
17	11	32	–	335	–	0	199	25	955	<b>2,254</b>
154	143	199	–	1,708	–	2	19	(6)	899	<b>11,420</b>
40	20	45	–	259	–	10	20,864	–	876	<b>38,235</b>
3	2	5	–	171	–	0	4	–	1	<b>727</b>
43	96	54	–	580	–	10	2,705	3	57,602	<b>73,043</b>
16	16	13	–	6,497	–	0	87	–	421	<b>8,799</b>
59	36	110	–	7,409	–	0	120	–	43	<b>10,185</b>
17	42	41	3	2,503	–	1	26	(0)	175	<b>5,317</b>
5	3	2	–	3	–	0	14	0	26,594	<b>36,010</b>
34	21	28	–	1,582	–	0	8	–	7,985	<b>12,198</b>
29	22	53	0	449	–	2	289	(1)	4,358	<b>14,400</b>
65	54	84	–	1,553	–	2	43	(0)	1,822	<b>9,846</b>
83	162	173	0	5,583	–	9	303	–	18,754	<b>46,928</b>
222	332	453	0	12,087	–	5	6,839	(0)	176	<b>29,361</b>
456	408	847	0	1,749	–	530	4,263	(8)	17,463	<b>53,660</b>
26	28	32	–	467	–	19,035	277	(0)	158	<b>21,416</b>
224	6	17	0	3,116	–	3,738	531	0	162	<b>9,383</b>
28	539	34	0	4,339	–	220	91	–	624	<b>8,049</b>
120	83	162	0	6,324	–	513	55	–	57	<b>7,995</b>
–	–	–	–	1,554	–	–	–	–	2	<b>1,556</b>

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Table A8.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	7	–	278	23	18	0	0
Mining and quarrying	m2	0	–	0	0	0	0	0
Food, beverages, and tobacco	m3	20	–	1,830	0	9	0	1
Textiles and textile products	m4	0	–	9	275	1	1	34
Leather, leather products, and footwear	m5	0	–	0	0	3	0	0
Wood and products of wood and cork	m6	0	–	8	0	0	50	28
Pulp, paper, paper products, printing, and publishing	m7	0	–	16	0	0	0	368
Coke, refined petroleum, and nuclear fuel	m8	3	–	12	1	0	0	31
Chemicals and chemical products	m9	1	–	129	2	1	2	112
Rubber and plastics	m10	0	–	85	2	0	15	106
Other nonmetallic minerals	m11	0	–	18	0	0	0	1
Basic metals and fabricated metal	m12	0	–	84	0	0	4	92
Machinery, nec	m13	0	–	50	1	0	3	87
Electrical and optical equipment	m14	0	–	68	0	0	0	14
Transport equipment	m15	–	–	1	0	0	0	0
Manufacturing, nec; recycling	m16	0	–	0	0	0	0	0
Electricity, gas, and water supply	m17	0	–	3	0	0	0	8
Construction	m18	0	–	0	0	0	0	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	–	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	–	4	5	0	0	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	–	0	0	0	0	0
Hotels and restaurants	m22	0	–	37	2	0	0	35
Inland transport	m23	0	–	3	0	0	0	2
Water transport	m24	0	–	1	2	0	0	2
Air transport	m25	0	–	2	2	0	0	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	–	4	0	0	0	2
Post and telecommunications	m27	0	–	0	1	0	0	0
Financial intermediation	m28	0	–	2	0	0	0	0
Real estate activities	m29	0	–	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	–	133	0	0	0	19
Public administration and defense; compulsory social security	m31	–	–	0	–	–	–	–
Education	m32	0	–	0	0	0	0	0
Health and social work	m33	0	–	0	0	0	0	0
Other community, social, and personal services	m34	0	–	0	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	100	–	5,602	517	64	158	1,957
Taxes less subsidies on products	r99	1	–	4	0	0	0	4
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	87	–	1,710	138	35	77	1,399
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	188	–	7,316	654	99	236	3,360

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Table A8.1 Import Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
0	4	0	0	0	0	0	0	0	0	16	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	237	0	0	0	0	2	0	0	0	9	0	0
9	3	4	0	0	1	6	4	12	3	56	0	42
0	0	0	0	0	1	3	7	2	0	4	0	24
0	2	0	4	0	1	10	5	118	1	157	0	2
15	14	2	2	4	4	34	3	2	3	4	1	94
31,968	280	214	12	11	24	110	24	49	1,360	77	1	389
620	3,478	18	38	144	9	2,219	26	11	55	72	26	66
48	93	175	3	26	25	403	28	48	19	109	53	120
0	5	0	460	8	9	407	21	3	13	1,050	0	20
23	84	14	10	3,370	1,571	805	616	271	10	1,485	14	13
142	60	14	11	104	2,260	2,294	608	9	55	1,340	28	106
40	18	7	3	40	341	21,923	291	19	17	309	56	707
4	2	1	1	5	79	677	2,536	1	2	80	66	33
0	0	2	0	18	0	33	15	381	8	89	1	18
1,545	35	0	17	8	1	13	1	0	2,156	0	0	0
104	0	0	0	1	25	0	0	0	36	219	0	0
0	1	0	0	0	0	2	0	0	0	0	0	1
47	33	1	8	12	36	171	20	0	0	32	0	638
0	0	0	0	0	0	0	0	0	0	0	0	30
23	49	13	6	44	86	131	59	6	35	81	5	265
2	5	1	1	4	9	14	5	1	0	14	0	36
11	15	1	1	5	10	189	5	0	0	57	0	6,773
7	10	1	1	3	6	132	4	1	4	7	0	552
3	15	2	2	4	14	127	8	1	6	9	0	1,529
5	5	1	0	0	6	122	0	0	0	0	0	225
33	11	0	0	1	8	33	21	0	2	13	0	979
0	0	0	0	0	15	0	0	0	0	0	0	0
205	4,010	4	16	43	383	10,716	243	4	5	94	0	4,365
–	0	0	0	0	0	0	0	0	–	0	–	0
0	0	0	0	0	0	0	0	0	3	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	1	0	0	0	0	0	1
–	–	–	–	–	–	–	–	–	–	–	–	–
50,866	11,480	1,560	1,458	5,920	9,211	66,957	8,799	1,680	7,807	27,799	477	34,745
33	10	2	2	6	9	33	8	1	20	5	1	15
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
2,127	8,297	907	539	2,200	4,091	20,519	5,087	574	3,593	10,430	249	38,283
–	–	–	–	–	–	–	–	–	–	–	–	–
53,027	19,787	2,469	1,998	8,126	13,311	87,509	13,893	2,254	11,420	38,235	727	73,043

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Table A8.1 Import Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	347	0	0	0	0
Mining and quarrying	m2	0	0	0	0	0	0
Food, beverages, and tobacco	m3	0	1,159	0	81	0	2
Textiles and textile products	m4	32	34	11	20	7	37
Leather, leather products, and footwear	m5	1	0	0	0	0	2
Wood and products of wood and cork	m6	1	1	0	8	0	6
Pulp, paper, paper products, printing, and publishing	m7	11	22	2	1	2	12
Coke, refined petroleum, and nuclear fuel	m8	18	38	182	4,412	2,492	148
Chemicals and chemical products	m9	15	33	8	37	0	50
Rubber and plastics	m10	15	68	16	33	1	75
Other nonmetallic minerals	m11	2	3	0	0	0	0
Basic metals and fabricated metal	m12	2	11	5	0	1	6
Machinery, nec	m13	16	3	6	76	1	12
Electrical and optical equipment	m14	51	23	14	4	2	33
Transport equipment	m15	4	2	21	613	83	27
Manufacturing, nec; recycling	m16	4	11	0	5	0	3
Electricity, gas, and water supply	m17	0	0	0	22	0	0
Construction	m18	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	1	0	1	0	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	1
Hotels and restaurants	m22	71	55	19	167	78	135
Inland transport	m23	6	4	4	49	3	14
Water transport	m24	20	1	6	7,110	1	280
Air transport	m25	4	3	1	44	742	34
Other supporting and auxiliary transport activities; activities of travel agencies	m26	5	3	11	6,188	848	553
Post and telecommunications	m27	0	0	0	33	19	10
Financial intermediation	m28	3	3	0	155	94	19
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	47	29	0	1,839	514	151
Public administration and defense; compulsory social security	m31	–	0	–	–	–	–
Education	m32	0	0	0	3	2	3
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–
Total intermediate consumption	r60	4,328	5,832	2,530	30,607	8,902	7,281
Taxes less subsidies on products	r99	6	11	5	46	26	20
Cif/fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	4,465	4,343	2,783	5,357	3,271	7,100
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	8,799	10,185	5,317	36,010	12,198	14,400

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Table A8.1 Import Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	0	0	8	1	0	1	6	0	930	-
0	0	0	0	0	0	0	0	0	0	-
0	13	4	5	72	0	7	19	0	2,394	-
5	0	1	68	17	9	24	42	0	1,014	-
0	1	1	4	6	0	1	2	-	555	-
0	0	1	8	1	4	0	0	0	40	-
5	15	2	56	12	6	5	6	-	212	-
6	18	8	66	148	4	19	6	0	14	-
6	13	2	168	117	34	258	59	-	612	-
11	48	2	108	15	29	10	20	-	206	-
3	0	0	20	3	9	1	7	-	80	-
1	0	1	199	1,378	3	2	10	0	111	-
4	20	22	188	623	3	1	6	0	96	-
275	20	6	768	916	71	23	38	-	2,832	-
6	0	1	51	1,189	2	0	1	-	928	-
3	12	11	42	4	21	8	60	0	1,708	-
0	0	0	0	1	0	0	0	0	0	-
0	0	0	29	1	0	0	0	0	0	-
0	0	0	11	0	0	0	0	0	0	-
193	4	0	63	0	1	1	0	0	0	-
0	0	0	1	0	0	0	0	0	0	-
98	342	18	952	85	76	23	62	0	0	-
8	34	2	79	7	7	2	6	0	0	-
10	88	1	151	5	2	2	2	-	0	-
15	12	1	252	2	5	1	4	-	843	-
17	32	2	206	2	6	2	8	-	0	-
1,080	150	0	499	3	0	0	3	0	3	-
11	6,424	24	79	2	4	1	2	0	0	-
0	0	3	24	19	0	0	0	0	0	-
139	1,679	5	8,102	46	31	7	110	-	66	-
-	-	0	0	0	0	0	0	-	-	-
1	7	0	17	3	36	5	1	0	0	-
0	7	0	4	0	0	0	0	-	0	-
0	0	0	119	1	0	0	5	-	387	-
-	-	-	-	-	-	-	-	-	-	-
<b>6,191</b>	<b>22,536</b>	<b>10,313</b>	<b>28,489</b>	<b>15,923</b>	<b>2,184</b>	<b>3,380</b>	<b>3,172</b>	<b>3</b>	<b>74,047</b>	-
4	106	82	38	52	27	51	34	-	9,010	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
3,651	24,286	18,965	25,133	5,442	7,171	4,618	4,789	1,553	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>9,846</b>	<b>46,928</b>	<b>29,361</b>	<b>53,660</b>	<b>21,416</b>	<b>9,383</b>	<b>8,049</b>	<b>7,995</b>	<b>1,556</b>	<b>83,057</b>	-

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Table A8.1 Import Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	13	3	–	1,658
Mining and quarrying	m2	0	0	0	–	1
Food, beverages, and tobacco	m3	0	0	4	–	5,868
Textiles and textile products	m4	0	4	52	–	1,837
Leather, leather products, and footwear	m5	0	0	35	–	655
Wood and products of wood and cork	m6	0	1	5	–	460
Pulp, paper, paper products, printing, and publishing	m7	0	30	19	–	984
Coke, refined petroleum, and nuclear fuel	m8	–	–	1,026	–	43,171
Chemicals and chemical products	m9	0	0	417	–	8,857
Rubber and plastics	m10	0	27	78	–	2,121
Other nonmetallic minerals	m11	0	88	8	–	2,240
Basic metals and fabricated metal	m12	0	209	576	–	10,981
Machinery, nec	m13	0	2,675	373	–	11,298
Electrical and optical equipment	m14	0	5,670	607	–	35,206
Transport equipment	m15	–	3,221	137	–	9,776
Manufacturing, nec; recycling	m16	0	364	18	–	2,839
Electricity, gas, and water supply	m17	0	1	8	–	3,820
Construction	m18	0	19	0	–	436
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	16
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	–	1,277
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	32
Hotels and restaurants	m22	0	0	0	–	3,057
Inland transport	m23	0	0	0	–	325
Water transport	m24	–	0	0	–	14,753
Air transport	m25	–	0	0	–	2,697
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	9,609
Post and telecommunications	m27	0	164	0	–	2,328
Financial intermediation	m28	–	–	0	–	7,925
Real estate activities	m29	0	0	0	–	61
Renting of M&Eq and other business activities	m30	0	3,815	0	–	36,817
Public administration and defense; compulsory social security	m31	–	–	–	–	1
Education	m32	0	0	0	–	86
Health and social work	m33	0	0	0	–	12
Other community, social, and personal services	m34	0	0	0	–	516
Private households with employed persons	m35	–	–	–	–	–
Total intermediate consumption	r60	24,083	59,221	4,119	284,178	834,478
Taxes less subsidies on products	r99	–	2,513	–	–	12,183
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	223,268
International transport margins		–	–	–	–	–
Output at basic prices	r69	24,083	61,734	4,119	284,178	1,069,930

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

**Table A8.2: Singapore Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	0	–	36	2	–	0	0
Mining and quarrying	c2	–	–	–	–	–	–	–
Food, beverages, and tobacco	c3	3	–	1,912	4	–	1	1
Textiles and textile products	c4	0	–	0	49	–	0	1
Leather, leather products, and footwear	c5	–	–	–	–	–	–	–
Wood and products of wood and cork	c6	0	–	14	0	–	51	31
Pulp, paper, paper products, printing, and publishing	c7	1	–	10	0	–	3	72
Coke, refined petroleum, and nuclear fuel	c8	4	–	80	0	–	11	69
Chemicals and chemical products	c9	4	–	98	1	–	28	70
Rubber and plastics	c10	2	–	56	1	–	9	42
Other nonmetallic minerals	c11	0	–	1	0	–	0	0
Basic metals and fabricated metal	c12	2	–	64	1	–	13	12
Machinery, nec	c13	1	–	24	1	–	4	23
Electrical and optical equipment	c14	1	–	47	2	–	6	19
Transport equipment	c15	0	–	10	0	–	1	2
Manufacturing, nec; recycling	c16	0	–	2	0	–	0	2
Electricity, gas, and water supply	c17	6	–	150	3	–	18	57
Construction	c18	1	–	14	0	–	1	5
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	–	5	0	–	1	3
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	10	–	1,216	54	–	128	211
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	–	6	0	–	1	2
Hotels and restaurants	c22	2	–	29	1	–	7	16
Inland transport	c23	2	–	38	4	–	2	6
Water transport	c24	2	–	137	14	–	26	60
Air transport	c25	4	–	27	5	–	6	14
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	–	60	1	–	2	12
Post and telecommunications	c27	3	–	111	2	–	7	26
Financial intermediation	c28	6	–	190	8	–	11	29
Real estate activities	c29	1	–	39	2	–	6	25
Renting of M&Eq and other business activities	c30	8	–	327	7	–	25	77
Public administration and defense; compulsory social security	c31	0	–	6	0	–	1	4
Education	c32	0	–	9	0	–	0	1
Health and social work	c33	0	–	1	0	–	0	0
Other community, social, and personal services	c34	0	–	14	0	–	1	6
Private households with employed persons	c35	0	–	0	0	–	0	0

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Table A8.2 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Industry								
Domestic								
Agriculture, hunting, forestry, and fishing	c1	0	0	1	0	0	0	1
Mining and quarrying	c2	–	–	–	–	–	–	–
Food, beverages, and tobacco	c3	9	58	0	0	2	12	35
Textiles and textile products	c4	1	0	0	0	0	0	1
Leather, leather products, and footwear	c5	–	–	–	–	–	–	–
Wood and products of wood and cork	c6	3	5	2	1	15	5	53
Pulp, paper, paper products, printing, and publishing	c7	5	39	0	1	5	9	51
Coke, refined petroleum, and nuclear fuel	c8	21,000	688	404	35	56	82	293
Chemicals and chemical products	c9	458	1,072	5	35	67	40	283
Rubber and plastics	c10	24	27	124	2	8	33	199
Other nonmetallic minerals	c11	4	4	0	318	8	2	139
Basic metals and fabricated metal	c12	18	40	35	11	944	316	445
Machinery, nec	c13	115	24	4	6	45	1,670	464
Electrical and optical equipment	c14	139	58	11	12	66	372	9,514
Transport equipment	c15	14	8	1	2	18	25	47
Manufacturing, nec; recycling	c16	5	2	1	5	5	2	22
Electricity, gas, and water supply	c17	1,087	336	51	30	196	136	1,053
Construction	c18	132	29	3	2	13	51	155
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	4	4	1	4	9	5	31
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	3,775	1,085	85	186	743	968	4,296
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	10	4	1	1	4	4	20
Hotels and restaurants	c22	51	29	10	4	25	41	99
Inland transport	c23	213	50	10	6	59	122	243
Water transport	c24	195	183	17	85	96	104	461
Air transport	c25	37	34	5	15	23	24	189
Other supporting and auxiliary transport activities; activities of travel agencies	c26	196	51	4	2	33	54	112
Post and telecommunications	c27	129	166	9	8	65	243	555
Financial intermediation	c28	355	168	25	13	94	112	928
Real estate activities	c29	27	24	10	2	30	27	74
Renting of M&Eq and other business activities	c30	719	1,415	49	33	264	2,313	5,596
Public administration and defense; compulsory social security	c31	19	9	2	2	8	6	28
Education	c32	4	4	1	0	3	4	14
Health and social work	c33	3	4	0	0	1	2	10
Other community, social, and personal services	c34	6	9	3	1	8	12	25
Private households with employed persons	c35	1	0	0	0	0	0	1

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Table A8.2 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
0	0	0	3	0	1	0	14	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
6	2	1	15	0	31	7	839	7	103	2	3
5	2	1	41	1	12	5	11	3	8	1	1
-	-	-	-	-	-	-	-	-	-	-	-
6	55	1	57	0	3	2	4	0	3	0	2
15	4	5	19	4	161	25	43	4	9	4	5
66	15	181	491	43	218	28	256	486	1,487	1,400	80
41	28	22	119	30	81	13	16	7	48	10	16
28	22	75	118	28	31	6	28	10	35	2	24
15	1	6	776	1	8	2	4	1	2	1	0
822	51	41	2,552	13	146	9	11	11	14	3	36
522	4	31	1,080	25	115	17	28	11	44	11	19
145	11	69	617	53	318	24	53	21	71	29	43
5,411	2	17	179	26	122	25	18	33	627	710	14
12	70	2	162	2	16	4	18	1	3	1	0
301	31	2,076	159	14	300	292	660	88	112	118	79
77	17	55	19,373	3	59	38	85	35	23	7	20
54	4	14	67	16	104	28	17	180	43	2	28
2,109	219	198	1,774	60	2,244	177	722	335	1,163	462	97
17	6	4	124	9	590	304	20	43	123	57	12
76	6	4	98	4	328	43	151	9	618	532	19
125	11	10	168	2	731	63	68	453	440	105	97
130	8	36	182	2	6,142	391	14	103	7,221	28	269
25	3	16	42	10	1,896	147	70	23	67	1,836	77
144	4	22	108	6	1,285	144	18	122	985	24	580
227	33	107	143	25	1,983	265	173	231	345	292	218
326	24	250	332	33	4,462	797	352	113	518	146	162
85	10	24	136	30	548	1,307	699	50	90	82	68
2,923	46	782	1,627	47	7,324	1,063	1,172	1,006	1,508	430	240
51	3	66	105	5	234	135	83	9	55	43	13
23	1	4	11	1	16	18	25	2	6	7	2
13	0	4	9	1	20	32	11	3	14	2	5
26	3	3	30	7	63	52	41	9	74	13	18
1	0	1	1	18	5	3	54	0	3	4	1

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Table A8.2 Domestic Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	0	0	0	1	0
Mining and quarrying	c2	–	–	–	–	–
Food, beverages, and tobacco	c3	15	21	4	40	30
Textiles and textile products	c4	3	0	0	14	4
Leather, leather products, and footwear	c5	–	–	–	–	–
Wood and products of wood and cork	c6	3	4	0	26	2
Pulp, paper, paper products, printing, and publishing	c7	97	52	4	425	69
Coke, refined petroleum, and nuclear fuel	c8	167	105	24	1,061	144
Chemicals and chemical products	c9	72	34	10	392	34
Rubber and plastics	c10	43	28	1	139	17
Other nonmetallic minerals	c11	9	1	1	161	4
Basic metals and fabricated metal	c12	29	12	6	1,380	638
Machinery, nec	c13	43	17	33	406	89
Electrical and optical equipment	c14	1,368	118	30	1,746	285
Transport equipment	c15	51	29	19	310	567
Manufacturing, nec; recycling	c16	7	4	2	47	3
Electricity, gas, and water supply	c17	301	176	177	351	1,027
Construction	c18	37	35	617	277	117
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	133	52	32	83	113
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	655	302	112	1,299	725
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	58	31	15	137	58
Hotels and restaurants	c22	92	232	13	814	100
Inland transport	c23	38	181	6	524	30
Water transport	c24	145	425	7	561	49
Air transport	c25	81	231	35	726	39
Other supporting and auxiliary transport activities; activities of travel agencies	c26	241	38	4	254	17
Post and telecommunications	c27	7,983	2,765	53	2,539	842
Financial intermediation	c28	767	14,322	2,725	873	3,572
Real estate activities	c29	282	463	151	605	123
Renting of M&Eq and other business activities	c30	2,335	2,879	2,311	12,935	2,063
Public administration and defense; compulsory social security	c31	101	155	26	216	389
Education	c32	23	21	3	134	2,083
Health and social work	c33	13	21	5	96	3,902
Other community, social, and personal services	c34	70	144	8	144	39
Private households with employed persons	c35	9	2	1	51	10

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Table A8.2 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
0	0	0	0	14	–	0	0	62	46	<b>183</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
2	14	6	17	1,714	–	0	48	1,401	3,860	<b>10,224</b>
1	6	3	6	70	–	0	1	95	309	<b>657</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
6	3	1	0	17	–	0	3	42	471	<b>890</b>
139	44	43	4	384	–	0	8	67	1,013	<b>2,843</b>
53	241	20	46	1,488	–	3	38	(3,792)	47,736	<b>74,805</b>
47	751	24	45	94	–	2	264	2,320	18,906	<b>25,590</b>
37	11	10	1	40	–	0	36	(128)	666	<b>1,832</b>
16	2	3	3	5	–	1	16	152	198	<b>1,866</b>
14	12	7	11	348	–	4	500	(3,742)	4,652	<b>9,478</b>
10	14	21	3	64	–	26	2,502	297	7,861	<b>15,672</b>
275	402	46	11	649	–	23	5,010	3,051	62,848	<b>87,560</b>
9	9	12	2	42	–	6	1,257	4,414	21,646	<b>35,685</b>
20	13	13	2	584	–	0	245	79	1,444	<b>2,802</b>
198	248	248	43	1,988	–	3	48	(237)	1,011	<b>12,938</b>
52	28	58	4	140	–	0	26,729	–	1,077	<b>49,368</b>
28	4	29	2	321	–	0	6	–	3	<b>1,430</b>
155	343	155	41	1,753	–	24	3,854	4	73,653	<b>105,391</b>
17	54	17	6	9,272	–	0	95	–	356	<b>11,478</b>
93	57	117	11	10,338	–	5	127	–	74	<b>14,277</b>
28	26	26	7	3,802	–	0	29	8	399	<b>8,131</b>
28	16	15	3	25	–	1	90	1	40,737	<b>58,010</b>
73	67	37	20	2,713	–	0	363	0	8,136	<b>17,114</b>
10	6	9	12	68	–	0	58	1	2,762	<b>7,448</b>
307	414	229	44	2,998	–	254	2,531	33	14,823	<b>41,185</b>
145	819	181	72	12,376	–	1	420	–	32,803	<b>78,530</b>
105	195	125	91	8,669	–	4	4,089	0	180	<b>18,481</b>
744	876	1,175	133	1,519	–	1,310	6,433	84	26,997	<b>90,795</b>
53	52	64	11	620	–	26,971	407	(4)	310	<b>30,261</b>
354	37	14	2	5,593	–	5,290	769	0	357	<b>14,836</b>
58	467	75	7	7,709	–	424	164	0	842	<b>13,921</b>
134	77	222	9	7,142	–	770	111	–	104	<b>9,396</b>
40	37	79	17	3,621	–	12	9	–	21	<b>4,002</b>

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Table A8.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	9	–	481	8	–	0	0
Mining and quarrying	m2	0	–	2	0	–	0	0
Food, beverages, and tobacco	m3	16	–	1,052	0	–	1	0
Textiles and textile products	m4	0	–	0	227	–	16	11
Leather, leather products, and footwear	m5	0	–	0	0	–	0	0
Wood and products of wood and cork	m6	0	–	9	0	–	272	81
Pulp, paper, paper products, printing, and publishing	m7	0	–	4	0	–	0	16
Coke, refined petroleum, and nuclear fuel	m8	2	–	7	0	–	7	13
Chemicals and chemical products	m9	2	–	104	2	–	14	102
Rubber and plastics	m10	3	–	13	1	–	65	91
Other nonmetallic minerals	m11	0	–	0	0	–	0	0
Basic metals and fabricated metal	m12	0	–	11	0	–	29	35
Machinery, nec	m13	0	–	7	0	–	18	35
Electrical and optical equipment	m14	0	–	7	0	–	5	17
Transport equipment	m15	0	–	0	0	–	0	0
Manufacturing, nec; recycling	m16	0	–	0	0	–	0	0
Electricity, gas, and water supply	m17	0	–	26	0	–	7	19
Construction	m18	0	–	0	0	–	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	–	0	0	–	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	–	7	0	–	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	–	0	0	–	0	0
Hotels and restaurants	m22	0	–	42	1	–	2	20
Inland transport	m23	0	–	3	0	–	0	2
Water transport	m24	0	–	1	0	–	0	0
Air transport	m25	0	–	5	0	–	0	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	–	2	0	–	0	0
Post and telecommunications	m27	0	–	2	0	–	0	4
Financial intermediation	m28	0	–	1	0	–	0	0
Real estate activities	m29	0	–	0	0	–	0	0
Renting of M&Eq and other business activities	m30	0	–	396	0	–	0	12
Public administration and defense; compulsory social security	m31	–	–	–	–	–	–	–
Education	m32	0	–	1	0	–	0	0
Health and social work	m33	0	–	0	0	–	0	0
Other community, social, and personal services	m34	0	–	0	0	–	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	97	–	6,914	405	–	808	1,358
Taxes less subsidies on products	r99	0	–	4	0	–	0	1
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	86	–	3,307	252	–	82	1,484
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	183	–	10,224	657	–	890	2,843

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Table A8.2 Imports Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
0	2	0	0	0	0	0	0	0	9	16	0	0
0	0	0	0	1	0	1	0	0	0	0	0	0
0	946	0	0	0	0	23	0	0	0	0	0	0
2	1	4	0	0	4	15	34	37	3	51	3	33
0	0	0	0	0	0	0	3	0	0	0	0	14
2	9	2	8	12	3	54	10	90	1	200	1	28
6	23	1	1	2	3	53	8	0	2	3	1	128
39,854	411	115	47	15	41	207	57	43	15	150	3	362
502	3,074	21	101	156	85	2,256	27	33	18	62	23	64
13	82	115	3	38	87	597	145	105	70	157	45	93
0	0	0	365	3	59	378	21	8	45	1,240	1	16
6	8	12	4	3,529	619	725	2,398	358	28	1,694	11	37
17	22	6	8	103	2,034	2,109	1,872	9	48	1,230	39	26
553	16	9	5	42	715	25,349	947	36	41	365	91	941
0	0	0	0	6	11	3	5,288	0	0	16	48	12
0	0	2	0	7	1	8	14	492	24	118	7	12
1,466	151	1	56	18	4	30	12	1	4,352	1	0	0
54	0	0	0	0	27	0	0	2	0	73	0	0
0	0	0	0	7	0	1	0	0	0	0	0	0
23	64	1	4	7	142	192	48	0	0	0	0	1,072
0	0	0	0	0	0	0	0	0	0	0	0	0
44	59	9	6	43	69	99	104	7	23	204	11	370
4	7	1	1	4	6	11	9	1	2	22	1	34
11	19	0	0	0	3	79	6	1	0	4	0	12,870
17	26	1	1	5	9	79	14	2	2	19	1	1,541
1	49	0	2	1	4	54	13	1	2	0	0	2,254
18	28	0	0	5	2	384	12	1	0	2	1	708
26	8	0	0	2	2	27	15	0	4	6	0	2,005
0	0	0	0	0	0	0	0	0	0	0	0	0
551	3,276	2	32	40	534	9,246	1,150	39	8	112	14	6,055
–	–	–	–	–	–	–	–	–	–	–	–	–
3	0	0	0	0	0	2	3	0	0	0	0	2
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
–	–	–	–	–	–	–	–	–	–	–	–	–
<b>71,934</b>	<b>13,907</b>	<b>1,177</b>	<b>1,467</b>	<b>6,961</b>	<b>11,263</b>	<b>67,418</b>	<b>26,037</b>	<b>1,963</b>	<b>8,826</b>	<b>36,460</b>	<b>822</b>	<b>58,277</b>
45	6	1	1	6	2	15	6	0	29	11	0	13
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
2,826	11,677	654	398	2,511	4,407	20,127	9,642	839	4,083	12,896	608	47,102
–	–	–	–	–	–	–	–	–	–	–	–	–
<b>74,805</b>	<b>25,590</b>	<b>1,832</b>	<b>1,866</b>	<b>9,478</b>	<b>15,672</b>	<b>87,560</b>	<b>35,685</b>	<b>2,802</b>	<b>12,938</b>	<b>49,368</b>	<b>1,430</b>	<b>105,391</b>

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Table A8.2 Imports Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	497	0	0	0	0
Mining and quarrying	m2	0	0	0	1	0	0
Food, beverages, and tobacco	m3	0	1,217	0	187	0	1
Textiles and textile products	m4	43	31	19	35	4	4
Leather, leather products, and footwear	m5	1	4	4	0	0	0
Wood and products of wood and cork	m6	6	18	2	10	1	9
Pulp, paper, paper products, printing, and publishing	m7	10	11	1	0	2	0
Coke, refined petroleum, and nuclear fuel	m8	14	36	240	6,510	2,868	49
Chemicals and chemical products	m9	6	23	3	20	2	9
Rubber and plastics	m10	11	68	17	36	1	36
Other nonmetallic minerals	m11	1	4	0	0	0	0
Basic metals and fabricated metal	m12	1	9	3	20	1	13
Machinery, nec	m13	3	3	14	31	1	37
Electrical and optical equipment	m14	18	31	21	26	12	26
Transport equipment	m15	4	3	27	331	11	2
Manufacturing, nec; recycling	m16	1	12	0	5	0	0
Electricity, gas, and water supply	m17	0	0	0	59	0	0
Construction	m18	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	3	5
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	2	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0
Hotels and restaurants	m22	100	46	21	317	151	168
Inland transport	m23	9	4	2	47	14	19
Water transport	m24	0	0	1	17,822	0	60
Air transport	m25	9	4	2	24	1,571	35
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	11	2,329	332	869
Post and telecommunications	m27	1	1	1	33	13	7
Financial intermediation	m28	6	5	1	133	83	10
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	35	41	3	5,130	834	37
Public administration and defense; compulsory social security	m31	–	–	–	–	–	–
Education	m32	0	0	0	6	2	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–
Total intermediate consumption	r60	5,748	7,847	3,803	48,975	12,268	3,645
Taxes less subsidies on products	r99	7	17	7	25	50	6
Cif/fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	5,723	6,413	4,322	9,009	4,796	3,797
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	11,478	14,277	8,131	58,010	17,114	7,448

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Table A8.2 Imports Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	1	0	6	2	0	1	4	4	777	-
0	0	0	0	0	0	0	0	0	0	-
3	19	1	10	78	0	15	5	19	2,259	-
20	1	1	35	27	3	35	15	33	2,146	-
0	0	0	0	0	0	0	0	-	28	-
15	19	2	29	9	23	6	5	1	210	-
38	8	0	51	3	1	1	1	1	150	-
60	39	7	127	139	7	24	3	4	18	-
63	23	1	231	101	42	206	10	26	333	-
76	43	1	136	17	61	17	17	1	307	-
10	0	0	23	3	18	1	3	4	103	-
3	0	0	168	1,295	4	2	3	3	165	-
47	2	36	441	524	2	2	20	1	145	-
1,226	72	7	527	911	111	104	80	10	3,011	-
0	2	0	83	1,169	0	0	1	0	814	-
17	11	3	103	5	61	19	45	4	2,345	-
0	0	0	0	3	0	0	0	0	0	-
0	0	0	75	1	0	0	0	0	0	-
2	0	0	6	1	0	0	1	0	0	-
2,202	35	0	223	0	1	4	0	0	0	-
0	0	0	0	0	0	0	0	0	0	-
577	1,067	14	1,808	74	92	31	50	0	0	-
50	66	1	104	7	9	3	5	0	0	-
15	0	0	182	3	0	0	0	-	0	-
112	64	1	130	4	9	4	5	2	687	-
35	3	0	131	0	0	0	0	-	0	-
7,576	1,152	0	3,408	6	4	6	27	0	24	-
22	8,850	18	135	2	5	3	5	0	0	-
2	2	4	4	20	0	0	0	0	0	-
975	3,596	10	8,698	39	29	12	199	0	8	-
-	-	-	-	0	-	-	-	-	-	-
7	13	0	19	4	93	7	1	0	0	-
0	10	0	10	0	0	0	0	0	0	-
2	0	0	69	1	1	0	27	0	1,013	-
-	-	-	-	0	-	1	-	-	-	-
<b>28,422</b>	<b>37,999</b>	<b>6,545</b>	<b>45,739</b>	<b>21,630</b>	<b>3,823</b>	<b>5,850</b>	<b>3,614</b>	<b>802</b>	<b>100,724</b>	-
30	180	129	40	51	30	104	47	1	14,379	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
12,733	40,351	11,807	45,016	8,581	10,983	7,966	5,735	3,198	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>41,185</b>	<b>78,530</b>	<b>18,481</b>	<b>90,795</b>	<b>30,261</b>	<b>14,836</b>	<b>13,921</b>	<b>9,396</b>	<b>4,002</b>	<b>115,103</b>	-

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Table A8.2 Imports Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	63	605	-	2,487
Mining and quarrying	m2	0	0	(1)	-	5
Food, beverages, and tobacco	m3	0	0	699	-	6,553
Textiles and textile products	m4	0	6	77	-	2,976
Leather, leather products, and footwear	m5	0	0	(0)	-	54
Wood and products of wood and cork	m6	0	0	161	-	1,308
Pulp, paper, paper products, printing, and publishing	m7	0	6	34	-	571
Coke, refined petroleum, and nuclear fuel	m8	-	-	(651)	-	50,843
Chemicals and chemical products	m9	0	0	(247)	-	7,495
Rubber and plastics	m10	0	53	(47)	-	2,574
Other nonmetallic minerals	m11	0	83	(260)	-	2,129
Basic metals and fabricated metal	m12	0	211	6,379	-	17,783
Machinery, nec	m13	0	3,634	(155)	-	12,372
Electrical and optical equipment	m14	0	4,052	1,678	-	41,061
Transport equipment	m15	0	3,194	669	-	11,694
Manufacturing, nec; recycling	m16	0	367	461	-	4,146
Electricity, gas, and water supply	m17	0	0	(5)	-	6,199
Construction	m18	0	22	(1)	-	253
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	-	28
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	-	4,031
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	-	1
Hotels and restaurants	m22	0	0	0	-	5,627
Inland transport	m23	0	0	0	-	449
Water transport	m24	-	0	0	-	31,080
Air transport	m25	0	0	0	-	4,386
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	-	6,092
Post and telecommunications	m27	0	2,230	0	-	15,657
Financial intermediation	m28	-	-	0	-	11,380
Real estate activities	m29	0	0	0	-	32
Renting of M&Eq and other business activities	m30	0	6,044	0	-	47,154
Public administration and defense; compulsory social security	m31	-	-	-	-	0
Education	m32	0	0	0	-	163
Health and social work	m33	0	0	0	-	21
Other community, social, and personal services	m34	0	0	0	-	1,112
Private households with employed persons	m35	-	-	-	-	1
Total intermediate consumption	r60	35,134	76,227	13,606	376,303	1,154,796
Taxes less subsidies on products	r99	-	3,748	-	-	18,993
Cif/fob adjustments on exports	r61	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-
Value added at basic prices	r64	-	-	-	-	303,411
International transport margins		-	-	-	-	-
Output at basic prices	r69	35,134	79,975	13,606	376,303	1,477,200

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

# APPENDIX 9: INPUT-OUTPUT TABLES FOR 2010 AND 2017—THAILAND

A9





**Table A9.1: Thailand Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	2,264	93	20,102	72	4	191	45
Mining and quarrying	c2	1	93	27	1	0	1	3
Food, beverages, and tobacco	c3	3,447	0	14,146	77	8	10	110
Textiles and textile products	c4	105	52	55	3,228	11	1	23
Leather, leather products, and footwear	c5	0	-	3	5	21	1	1
Wood and products of wood and cork	c6	18	2	8	18	2	1,245	10
Pulp, paper, paper products, printing, and publishing	c7	35	6	236	35	5	206	436
Coke, refined petroleum, and nuclear fuel	c8	549	185	52	271	8	10	14
Chemicals and chemical products	c9	1,506	139	329	1,025	80	56	215
Rubber and plastics	c10	305	54	823	437	286	19	195
Other nonmetallic minerals	c11	82	44	191	181	0	20	12
Basic metals and fabricated metal	c12	266	536	1,375	146	137	155	143
Machinery, nec	c13	567	560	141	479	23	12	36
Electrical and optical equipment	c14	145	66	67	205	9	5	25
Transport equipment	c15	41	18	2	0	0	0	0
Manufacturing, nec; recycling	c16	88	27	70	603	100	9	17
Electricity, gas, and water supply	c17	123	136	1,552	866	18	72	220
Construction	c18	7	4	24	5	1	1	4
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	14	10	49	10	2	1	4
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	367	836	6,471	1,260	295	81	380
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,574	761	2,564	533	125	68	318
Hotels and restaurants	c22	27	17	34	5	10	1	18
Inland transport	c23	217	39	967	187	49	21	53
Water transport	c24	153	110	576	113	30	18	47
Air transport	c25	31	39	128	29	7	7	18
Other supporting and auxiliary transport activities; activities of travel agencies	c26	19	14	190	73	19	14	36
Post and telecommunications	c27	18	179	133	39	4	5	44
Financial intermediation	c28	529	110	575	235	24	18	138
Real estate activities	c29	6	15	44	13	2	2	6
Renting of M&Eq and other business activities	c30	530	3,909	1,900	488	47	64	642
Public administration and defense; compulsory social security	c31	6	4	28	8	1	0	6
Education	c32	5	0	15	0	0	0	0
Health and social work	c33	0	0	6	0	0	0	0
Other community, social, and personal services	c34	11	6	106	54	3	1	23
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A9.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
1	113	1,887	4	98	2	3	31	184	33	81	2	41
5,632	952	1	2,904	109	62	97	9	118	1,662	452	-	-
14	635	47	46	1	21	37	1	32	120	0	4	119
9	193	262	160	255	53	114	151	412	82	267	8	221
-	0	3	13	15	0	2	24	106	1	8	9	250
1	0	4	1	128	1	1	152	789	3	333	3	22
1	7	48	10	260	5	5	154	50	14	62	7	265
10,819	715	124	125	313	5	9	24	33	208	447	6	123
1,631	8,143	3,732	449	449	31	141	175	500	623	1,198	1	126
8	210	3,603	34	4,323	529	166	1,558	424	51	451	18	2,874
223	502	108	4,435	842	30	49	186	177	408	5,645	1	110
23	236	392	494	49,089	1,392	1,344	10,212	1,068	861	4,558	52	1,511
628	279	187	181	345	318	97	306	46	316	434	13	294
428	143	338	43	254	189	539	201	76	690	746	2	156
0	0	-	0	54	0	0	11,357	0	0	0	22	671
361	169	134	90	981	10	19	85	401	91	447	9	192
74	841	996	860	1,878	229	353	897	134	4,527	393	68	3,287
4	9	9	7	32	4	7	12	3	20	10	1	27
7	10	10	10	63	7	8	18	8	8	15	0	5
894	1,256	1,235	1,564	1,579	568	687	1,872	803	569	1,719	31	1,099
433	609	599	569	7,310	561	679	1,267	614	749	990	30	33
6	38	20	28	96	10	19	42	16	45	32	23	470
37	258	195	352	931	91	101	329	126	169	295	7	143
56	387	185	396	1,008	117	129	373	118	240	320	8	168
12	84	41	81	223	24	26	84	56	51	28	43	897
8	56	136	168	319	21	23	148	51	23	8	17	350
4	42	67	77	230	65	52	125	39	50	81	18	448
20	287	262	316	671	124	244	536	175	1,237	406	117	2,884
4	10	18	23	103	18	21	28	15	7	22	9	257
70	803	535	603	4,096	414	918	1,270	329	666	1,604	12	1,902
1	25	7	11	211	6	8	37	6	36	19	1	31
0	1	4	2	17	1	1	6	1	0	0	0	3
0	0	0	0	1	0	0	1	0	1	2	0	2
2	20	8	22	48	8	15	100	14	33	25	2	335
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A9.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	40	1,901	74	9	46	21
Mining and quarrying	c2	-	17	43	-	-	-
Food, beverages, and tobacco	c3	68	7,577	12	1	178	18
Textiles and textile products	c4	187	320	143	52	40	13
Leather, leather products, and footwear	c5	196	1	-	-	5	2
Wood and products of wood and cork	c6	13	3	2	0	0	5
Pulp, paper, paper products, printing, and publishing	c7	183	43	11	2	2	35
Coke, refined petroleum, and nuclear fuel	c8	63	122	2,637	583	521	65
Chemicals and chemical products	c9	91	77	697	154	138	17
Rubber and plastics	c10	2,314	174	148	10	5	32
Other nonmetallic minerals	c11	80	43	208	10	6	19
Basic metals and fabricated metal	c12	1,111	210	278	77	75	131
Machinery, nec	c13	109	67	182	142	89	6
Electrical and optical equipment	c14	113	51	305	238	148	10
Transport equipment	c15	467	-	176	191	103	14
Manufacturing, nec; recycling	c16	113	140	2	0	-	290
Electricity, gas, and water supply	c17	661	2,035	86	13	81	123
Construction	c18	29	31	4	1	2	3
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	13	14	9	2	2	2
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	174	1,573	1,383	278	327	288
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,600	944	398	80	94	83
Hotels and restaurants	c22	613	25	35	5	2	99
Inland transport	c23	185	250	92	27	25	19
Water transport	c24	217	11	4	187	1	4
Air transport	c25	1,160	61	19	59	1,317	351
Other supporting and auxiliary transport activities; activities of travel agencies	c26	453	55	152	198	858	730
Post and telecommunications	c27	427	182	48	56	176	169
Financial intermediation	c28	2,853	442	246	122	197	111
Real estate activities	c29	198	97	23	11	18	46
Renting of M&Eq and other business activities	c30	1,531	1,154	3,113	370	598	790
Public administration and defense; compulsory social security	c31	33	19	8	3	15	15
Education	c32	2	1	1	0	2	1
Health and social work	c33	1	0	0	0	0	0
Other community, social, and personal services	c34	270	160	31	3	5	103
Private households with employed persons	c35	-	-	-	-	-	-

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Table A9.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
33	51	51	274	126	346	438	84	-	12,406	-
-	-	-	-	-	0	0	1	-	3	-
1	49	2	29	224	505	265	104	-	32,351	-
11	82	20	232	69	51	143	54	-	6,155	-
-	1	-	-	11	0	2	29	-	1,619	-
2	5	1	70	11	140	3	2	-	46	-
45	230	4	1,922	445	1,598	56	60	-	1,045	-
8	165	16	165	118	17	52	28	-	2,911	-
13	7	30	412	142	108	499	149	-	3,100	-
15	40	19	442	20	18	118	43	-	408	-
1	9	10	162	59	35	49	36	-	260	-
368	239	105	2,080	953	393	475	284	-	2,003	-
6	8	4	285	172	89	102	25	-	230	-
52	18	8	522	200	424	1,380	135	-	1,703	-
1	-	3	31	9	0	-	0	-	9,868	-
19	16	6	961	214	561	163	295	-	3,095	-
418	291	896	707	783	1,048	579	405	-	3,956	-
7	21	30	86	480	356	67	39	-	377	-
3	4	3	20	6	7	6	3	-	97	-
300	566	123	857	517	369	304	182	-	6,168	-
219	227	315	2,188	470	665	548	328	-	10,769	-
56	99	9	620	606	221	49	51	-	24,378	-
13	39	10	192	293	299	115	36	-	9,955	-
0	1	0	7	13	4	4	1	-	439	-
235	185	17	226	122	19	50	74	-	1,098	-
363	90	6	493	32	12	7	53	-	969	-
900	263	61	1,557	346	148	40	156	-	2,998	-
502	981	948	1,212	76	228	102	113	-	4,666	-
32	326	34	491	143	38	8	63	-	9,750	-
1,295	1,866	1,222	5,193	1,469	542	303	841	-	1,170	-
38	158	20	141	-	10	6	87	-	309	-
0	27	0	30	0	0	0	5	-	2,450	0
0	74	0	2	0	1	1	6	-	6,623	2
67	46	15	1,616	540	210	51	349	-	3,538	1
-	-	-	-	-	-	-	-	-	-	-

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Table A9.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Domestic</b>						
Agriculture, hunting, forestry, and fishing	c1	-	-	128	4,726	<b>46,001</b>
Mining and quarrying	c2	-	-	(26)	188	<b>12,349</b>
Food, beverages, and tobacco	c3	-	-	387	15,291	<b>75,935</b>
Textiles and textile products	c4	-	-	40	5,725	<b>18,998</b>
Leather, leather products, and footwear	c5	-	-	(59)	528	<b>2,797</b>
Wood and products of wood and cork	c6	-	5	(17)	1,040	<b>4,072</b>
Pulp, paper, paper products, printing, and publishing	c7	-	25	(79)	1,149	<b>8,621</b>
Coke, refined petroleum, and nuclear fuel	c8	-	1	5,914	5,461	<b>32,887</b>
Chemicals and chemical products	c9	-	0	(3,958)	3,669	<b>25,894</b>
Rubber and plastics	c10	-	-	83	6,400	<b>26,658</b>
Other nonmetallic minerals	c11	-	0	(26)	7,577	<b>21,785</b>
Basic metals and fabricated metal	c12	-	11,805	853	41,816	<b>137,243</b>
Machinery, nec	c13	-	4	(22)	2,498	<b>9,256</b>
Electrical and optical equipment	c14	-	3	(26)	1,701	<b>11,312</b>
Transport equipment	c15	-	17,892	(48)	16,465	<b>57,337</b>
Manufacturing, nec; recycling	c16	-	1	47	2,012	<b>11,837</b>
Electricity, gas, and water supply	c17	-	-	249	121	<b>29,974</b>
Construction	c18	-	33,336	-	1	<b>35,057</b>
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	-	0	(0)	422	<b>872</b>
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	-	2,922	102	12,569	<b>52,568</b>
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	-	1,424	105	2,295	<b>43,137</b>
Hotels and restaurants	c22	-	-	-	4,532	<b>32,360</b>
Inland transport	c23	-	488	24	4,419	<b>21,049</b>
Water transport	c24	-	22	1	320	<b>5,790</b>
Air transport	c25	-	49	2	1,759	<b>8,713</b>
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	0	0	798	<b>6,961</b>
Post and telecommunications	c27	-	-	-	1,368	<b>10,615</b>
Financial intermediation	c28	-	-	-	312	<b>22,017</b>
Real estate activities	c29	-	376	-	-	<b>12,276</b>
Renting of M&Eq and other business activities	c30	-	-	-	3,056	<b>45,313</b>
Public administration and defense; compulsory social security	c31	28,324	-	-	0	<b>29,639</b>
Education	c32	18,255	-	-	70	<b>20,903</b>
Health and social work	c33	8,473	-	-	672	<b>15,873</b>
Other community, social, and personal services	c34	805	-	-	3,275	<b>11,925</b>
Private households with employed persons	c35	-	-	-	-	-

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Table A9.1 Import Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Imports						
Agriculture, hunting, forestry, and fishing	m1	447	22	3,782	14	1	31	6
Mining and quarrying	m2	0	71	24	0	0	0	1
Food, beverages, and tobacco	m3	386	0	1,644	8	1	1	11
Textiles and textile products	m4	19	9	10	543	2	0	4
Leather, leather products, and footwear	m5	0	0	1	1	4	0	0
Wood and products of wood and cork	m6	1	0	1	1	0	94	1
Pulp, paper, paper products, printing, and publishing	m7	9	1	65	9	1	53	161
Coke, refined petroleum, and nuclear fuel	m8	70	22	7	33	1	1	2
Chemicals and chemical products	m9	163	13	35	101	36	9	29
Rubber and plastics	m10	38	7	111	56	35	3	23
Other nonmetallic minerals	m11	2	1	5	4	0	0	0
Basic metals and fabricated metal	m12	155	321	847	84	76	92	76
Machinery, nec	m13	273	279	72	228	11	6	16
Electrical and optical equipment	m14	119	56	59	166	7	4	20
Transport equipment	m15	9	4	1	0	0	0	0
Manufacturing, nec; recycling	m16	11	4	9	89	14	1	3
Electricity, gas, and water supply	m17	1	1	18	8	0	1	2
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	55	39	246	40	8	4	12
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	17	6	54	20	6	2	16
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	25	12	50	9	2	1	4
Hotels and restaurants	m22	2	1	3	0	1	0	1
Inland transport	m23	6	2	31	5	1	1	1
Water transport	m24	543	395	2,415	402	94	70	136
Air transport	m25	19	24	91	18	4	5	10
Other supporting and auxiliary transport activities; activities of travel agencies	m26	6	5	76	25	6	5	10
Post and telecommunications	m27	3	34	30	7	1	1	6
Financial intermediation	m28	54	9	58	23	2	3	11
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	46	338	182	42	4	6	52
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	2	1	26	12	1	0	4
Private households with employed persons	m35	-	-	-	-	-	-	-
Total intermediate consumption	r60	15,534	9,740	62,941	12,650	1,651	2,707	3,862
Taxes less subsidies on products	r99	681	362	1,785	380	72	50	86
Cif/fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	29,786	2,248	11,208	5,968	1,075	1,316	4,674
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	46,001	12,349	75,935	18,998	2,797	4,072	8,621

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Table A9.1 Import Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Industry								
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	22	367	1	25	0	0
Mining and quarrying	m2	4,623	850	1	2,497	84	46	63
Food, beverages, and tobacco	m3	1	68	5	5	0	2	3
Textiles and textile products	m4	2	33	45	27	47	9	17
Leather, leather products, and footwear	m5	0	0	1	3	3	0	0
Wood and products of wood and cork	m6	0	0	0	0	10	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	8	12	5	69	3	3
Coke, refined petroleum, and nuclear fuel	m8	1,267	85	15	15	39	1	1
Chemicals and chemical products	m9	149	761	356	53	46	25	21
Rubber and plastics	m10	1	26	464	4	571	67	23
Other nonmetallic minerals	m11	5	11	2	98	19	2	4
Basic metals and fabricated metal	m12	13	138	233	286	29,463	794	721
Machinery, nec	m13	294	132	89	85	171	150	43
Electrical and optical equipment	m14	340	115	275	34	214	203	710
Transport equipment	m15	0	0	0	0	13	0	0
Manufacturing, nec; recycling	m16	48	23	18	12	144	1	2
Electricity, gas, and water supply	m17	0	5	6	5	20	2	3
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	27	41	44	37	286	26	21
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	21	31	17	10	14	26	24
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	6	9	10	9	128	8	7
Hotels and restaurants	m22	0	3	2	2	8	1	1
Inland transport	m23	1	8	6	10	30	3	3
Water transport	m24	188	1,363	690	1,363	3,896	396	330
Air transport	m25	7	51	26	48	148	15	16
Other supporting and auxiliary transport activities; activities of travel agencies	m26	3	19	49	56	118	7	6
Post and telecommunications	m27	1	8	13	14	47	12	7
Financial intermediation	m28	2	28	24	28	62	13	18
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	6	69	48	51	373	35	65
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	4	2	5	11	2	2
Private households with employed persons	m35	-	-	-	-	-	-	-
Total intermediate consumption	r60	28,418	20,943	18,018	18,842	112,389	6,766	8,031
Taxes less subsidies on products	r99	1,969	852	510	675	1,350	152	239
Cif/fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	2,500	4,099	8,130	2,267	23,504	2,338	3,042
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	32,887	25,894	26,658	21,785	137,243	9,256	11,312

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Table A9.1 Import Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	22	367	1	25	0	0	11	0	0	0	0
4,623	850	1	2,497	84	46	63	0	0	0	0	0
1	68	5	5	0	2	3	286	0	1	7	0
2	33	45	27	47	9	17	12	4	0	4	11
0	0	1	3	3	0	0	0	0	0	1	1
0	0	0	0	10	0	0	1	13	0	0	1
0	8	12	5	69	3	3	12	7	0	7	8
1,267	85	15	15	39	1	1	4	359	40	326	13
149	761	356	53	46	25	21	10	20	1	3	9
1	26	464	4	571	67	23	3	41	1	13	2
5	11	2	98	19	2	4	1	0	0	0	0
13	138	233	286	29,463	794	721	1	80	0	2	19
294	132	89	85	171	150	43	0	0	0	0	3
340	115	275	34	214	203	710	12	177	19	8	30
0	0	0	0	13	0	0	0	0	0	49	3
48	23	18	12	144	1	2	3	2	0	4	7
0	5	6	5	20	2	3	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
27	41	44	37	286	26	21	0	0	0	0	0
21	31	17	10	14	26	24	3	1	4	2	1
6	9	10	9	128	8	7	0	1	0	0	0
0	3	2	2	8	1	1	55	0	0	2	0
1	8	6	10	30	3	3	0	0	0	0	0
188	1,363	690	1,363	3,896	396	330	1	1	2	6	2
7	51	26	48	148	15	16	2	0	2	17	7
3	19	49	56	118	7	6	0	3	0	2	6
1	8	13	14	47	12	7	0	1	0	1	0
2	28	24	28	62	13	18	2	8	1	3	2
0	0	0	0	0	0	0	0	0	0	0	0
6	69	48	51	373	35	65	1	0	2	7	2
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	4	2	5	11	2	2	2	0	0	0	3
-	-	-	-	-	-	-	-	-	-	-	-
<b>28,418</b>	<b>20,943</b>	<b>18,018</b>	<b>18,842</b>	<b>112,389</b>	<b>6,766</b>	<b>8,031</b>	<b>5,359</b>	<b>3,592</b>	<b>464</b>	<b>2,883</b>	<b>954</b>
1,969	852	510	675	1,350	152	239	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
2,500	4,099	8,130	2,267	23,504	2,338	3,042	3,220	4,056	420	1,024	1,249
-	-	-	-	-	-	-	-	-	-	-	-
<b>32,887</b>	<b>25,894</b>	<b>26,658</b>	<b>21,785</b>	<b>137,243</b>	<b>9,256</b>	<b>11,312</b>	<b>8,579</b>	<b>7,648</b>	<b>884</b>	<b>3,907</b>	<b>2,202</b>

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Table A9.1 Import Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	7	11	10	62	28
Mining and quarrying	m2	0	0	0	0	0
Food, beverages, and tobacco	m3	0	5	0	3	24
Textiles and textile products	m4	2	14	3	39	12
Leather, leather products, and footwear	m5	0	0	0	0	2
Wood and products of wood and cork	m6	0	0	0	5	1
Pulp, paper, paper products, printing, and publishing	m7	12	58	1	490	112
Coke, refined petroleum, and nuclear fuel	m8	1	20	2	20	15
Chemicals and chemical products	m9	1	2	3	38	13
Rubber and plastics	m10	2	5	2	56	3
Other nonmetallic minerals	m11	0	0	0	4	1
Basic metals and fabricated metal	m12	211	138	61	1,217	583
Machinery, nec	m13	3	4	2	136	82
Electrical and optical equipment	m14	42	15	7	421	162
Transport equipment	m15	0	0	1	5	2
Manufacturing, nec; recycling	m16	3	2	1	140	33
Electricity, gas, and water supply	m17	4	3	9	7	7
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	12	16	12	81	22
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	4	1	8	3
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	3	3	5	34	7
Hotels and restaurants	m22	4	7	1	44	41
Inland transport	m23	1	1	0	5	7
Water transport	m24	3	3	1	24	43
Air transport	m25	139	109	10	136	71
Other supporting and auxiliary transport activities; activities of travel agencies	m26	122	30	2	168	11
Post and telecommunications	m27	163	47	11	287	61
Financial intermediation	m28	43	89	82	101	6
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	110	155	98	437	123
Public administration and defense; compulsory social security	m31	0	0	0	0	-
Education	m32	0	0	0	0	0
Health and social work	m33	0	5	0	0	0
Other community, social, and personal services	m34	14	10	3	341	111
Private households with employed persons	m35	-	-	-	-	-
Total intermediate consumption	r60	5,927	6,944	4,316	27,535	10,255
Taxes less subsidies on products	r99	205	241	170	830	323
Cif/fob adjustments on exports	r61	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-
Value added at basic prices	r64	4,483	14,831	7,790	16,948	19,061
International transport margins		-	-	-	-	-
Output at basic prices	r69	10,615	22,017	12,276	45,313	29,639

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Table A9.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
72	87	18	-	2,477	0	0	0	23	-	7,995
0	0	1	-	2	0	0	0	(10)	-	9,894
53	27	11	-	3,532	0	0	0	38	-	6,710
9	23	9	-	1,067	0	0	0	6	-	2,282
0	0	5	-	377	0	0	0	(9)	-	513
10	0	0	-	3	0	0	0	(1)	-	230
406	14	15	-	280	0	17	5	(11)	-	2,009
2	5	3	-	373	-	0	0	717	-	3,326
10	86	17	-	296	0	4	0	(342)	-	2,311
2	15	6	-	53	0	0	1	11	-	2,632
1	1	1	-	6	0	0	1	0	-	334
225	265	164	-	1,187	0	0	6,974	487	-	56,958
42	47	12	-	112	0	0	2	(11)	-	3,266
340	1,087	109	-	1,415	0	4	164	(8)	-	8,420
0	0	0	-	1,838	-	0	3,595	(8)	-	7,765
81	23	43	-	485	0	0	0	6	-	1,457
10	5	4	-	29	0	0	0	2	-	264
0	0	0	-	0	0	0	5	0	-	6
26	20	13	-	465	0	0	0	0	-	2,001
4	9	4	-	48	0	6	33	9	-	493
10	8	5	-	198	0	0	27	1	-	702
15	3	4	-	1,670	0	0	0	0	-	1,921
7	3	1	-	247	0	1	14	1	-	448
15	13	5	-	1,698	-	3	88	2	-	20,577
11	28	45	-	680	-	0	33	1	-	4,353
4	2	18	-	335	0	1	1	1	-	2,161
27	7	29	-	539	0	0	0	0	-	1,713
19	8	11	-	401	-	1	0	0	-	1,916
0	0	0	-	0	0	0	0	0	-	0
45	24	70	-	96	0	3	2	1	-	3,474
0	0	0	-	0	-	0	0	0	-	0
0	0	0	-	0	0	3	0	0	-	4
0	0	0	-	419	0	589	0	0	-	1,016
44	10	74	-	697	0	173	0	0	-	1,790
-	-	-	-	-	-	-	-	-	-	-
9,954	7,804	4,820	-	187,940	3	56,662	79,296	4,577	152,231	1,066,967
270	299	170	-	8,219	0	(1,049)	2,296	75	-	27,584
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	4,753	-	-	-	-	-	4,753
-	-	-	-	(18,310)	-	-	-	-	-	(18,310)
10,679	7,770	6,934	-	-	-	-	-	-	-	303,725
-	-	-	-	-	-	-	-	-	-	-
20,903	15,873	11,925	-	182,602	3	55,613	81,592	4,653	152,231	1,384,719

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table A9.2: Thailand Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	2,090	72	22,517	70	4	178	37
Mining and quarrying	c2	1	70	29	0	0	0	3
Food, beverages, and tobacco	c3	2,945	0	14,664	70	7	9	83
Textiles and textile products	c4	109	46	69	3,538	13	1	21
Leather, leather products, and footwear	c5	0	–	4	6	26	1	1
Wood and products of wood and cork	c6	17	1	9	18	2	1,185	8
Pulp, paper, paper products, printing, and publishing	c7	36	5	293	38	5	213	396
Coke, refined petroleum, and nuclear fuel	c8	693	197	80	362	11	13	16
Chemicals and chemical products	c9	1,389	108	368	1,003	80	52	176
Rubber and plastics	c10	276	41	904	419	280	18	157
Other nonmetallic minerals	c11	78	35	219	181	0	19	10
Basic metals and fabricated metal	c12	216	368	1,356	126	120	127	103
Machinery, nec	c13	519	434	157	465	23	11	29
Electrical and optical equipment	c14	144	55	81	215	10	5	22
Transport equipment	c15	39	15	3	0	0	0	0
Manufacturing, nec; recycling	c16	91	24	88	665	113	9	16
Electricity, gas, and water supply	c17	128	119	1,961	957	21	76	203
Construction	c18	6	2	23	4	1	1	3
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	13	8	58	10	2	1	4
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	366	706	7,836	1,334	318	81	336
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,994	815	3,939	717	171	87	357
Hotels and restaurants	c22	96	50	148	19	38	5	57
Inland transport	c23	176	27	951	161	43	17	38
Water transport	c24	124	75	563	97	26	15	34
Air transport	c25	23	25	116	23	6	5	12
Other supporting and auxiliary transport activities; activities of travel agencies	c26	15	10	190	64	17	12	26
Post and telecommunications	c27	19	163	173	45	5	6	42
Financial intermediation	c28	912	160	1,203	431	45	31	211
Real estate activities	c29	10	21	86	23	3	3	8
Renting of M&Eq and other business activities	c30	572	3,573	2,492	560	55	70	615
Public administration and defense; compulsory social security	c31	4	3	23	6	1	0	4
Education	c32	4	0	14	0	0	0	0
Health and social work	c33	0	0	6	0	0	0	0
Other community, social, and personal services	c34	15	6	171	76	5	1	27
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A9.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
1	105	1,853	3	105	2	2	29	171	29	65	2	42
5,688	940	1	2,271	113	57	89	8	105	1,434	350	–	–
12	547	43	34	1	19	33	0	28	89	0	3	115
10	201	287	143	307	57	122	161	426	74	242	9	257
–	0	3	14	20	0	3	29	124	1	8	11	329
1	0	4	1	141	1	1	147	745	3	275	3	24
1	7	53	9	311	6	6	162	51	14	56	8	306
9,251	909	167	137	461	7	12	31	41	252	496	8	175
1,548	7,175	3,660	360	484	30	135	166	462	443	970	1	131
7	191	3,468	27	4,567	501	157	1,452	384	44	358	18	2,933
217	478	109	3,643	930	30	49	182	168	370	4,689	1	117
19	193	339	349	46,600	1,185	1,138	8,551	870	670	3,254	46	1,386
591	257	181	144	368	304	93	289	42	277	348	12	303
436	142	356	37	294	196	556	205	75	654	649	2	175
0	0	–	0	61	0	0	11,171	0	0	0	23	723
386	177	148	82	1,190	11	20	91	417	91	408	10	225
80	882	1,103	777	2,283	250	383	962	140	4,513	359	78	3,861
3	7	7	5	29	3	5	9	2	15	7	1	24
7	10	11	8	72	7	9	18	8	8	13	0	6
918	1,262	1,311	1,016	1,840	594	714	1,924	803	544	1,506	34	1,238
565	776	806	625	10,809	744	895	1,652	779	909	1,101	41	47
23	136	76	87	396	37	71	153	57	151	100	88	1,876
31	211	168	248	882	77	85	275	102	131	210	6	131
47	314	158	277	948	99	108	309	95	185	226	7	153
9	63	33	52	194	19	20	65	42	37	18	35	756
7	47	119	120	306	18	20	125	42	18	6	15	325
5	45	77	72	290	74	59	139	42	52	77	21	545
35	498	481	473	1,351	224	439	952	302	2,044	616	220	5,613
6	15	31	32	193	30	35	46	23	10	31	16	467
78	873	616	565	5,168	468	1,033	1,414	357	689	1,522	14	2,319
1	17	5	7	169	5	5	26	4	23	11	1	24
0	1	3	1	15	1	1	5	0	0	0	0	3
0	0	0	0	1	0	0	1	0	1	2	0	2
3	27	12	25	75	11	21	136	19	42	29	3	500
–	–	–	–	–	–	–	–	–	–	–	–	–

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Table A9.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	38	5,593	49	7	43	14
Mining and quarrying	c2	–	48	28	–	–	–
Food, beverages, and tobacco	c3	60	20,629	7	1	152	11
Textiles and textile products	c4	201	1,053	107	47	41	10
Leather, leather products, and footwear	c5	239	5	–	–	6	2
Wood and products of wood and cork	c6	13	10	1	0	0	4
Pulp, paper, paper products, printing, and publishing	c7	196	141	8	2	2	26
Coke, refined petroleum, and nuclear fuel	c8	83	491	2,409	643	660	59
Chemicals and chemical products	c9	88	226	465	124	127	11
Rubber and plastics	c10	2,189	502	97	8	5	21
Other nonmetallic minerals	c11	79	130	143	8	6	13
Basic metals and fabricated metal	c12	944	544	164	55	61	76
Machinery, nec	c13	104	195	121	114	81	4
Electrical and optical equipment	c14	118	162	219	206	147	7
Transport equipment	c15	466	–	121	159	99	9
Manufacturing, nec; recycling	c16	122	464	2	0	–	217
Electricity, gas, and water supply	c17	720	6,752	65	12	84	92
Construction	c18	23	78	2	0	2	2
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	13	45	7	2	2	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	181	5,004	999	243	328	206
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	2,118	3,811	365	89	120	75
Hotels and restaurants	c22	2,267	280	89	17	7	252
Inland transport	c23	157	647	54	19	21	11
Water transport	c24	183	28	2	132	1	2
Air transport	c25	905	144	10	38	986	189
Other supporting and auxiliary transport activities; activities of travel agencies	c26	389	144	90	142	707	431
Post and telecommunications	c27	481	626	37	52	190	131
Financial intermediation	c28	5,146	2,428	307	183	340	138
Real estate activities	c29	332	497	27	15	29	54
Renting of M&Eq and other business activities	c30	1,730	3,974	2,435	350	649	613
Public administration and defense; compulsory social security	c31	23	42	4	2	10	8
Education	c32	2	2	0	0	1	0
Health and social work	c33	1	1	0	0	0	0
Other community, social, and personal services	c34	373	673	30	3	7	98
Private households with employed persons	c35	–	–	–	–	–	–

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Table A9.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
33	71	48	232	116	346	524	99	–	5,857	–
–	–	–	–	–	0	0	2	–	2	–
1	64	2	22	191	467	293	113	–	18,397	–
13	128	21	219	71	57	191	72	–	4,232	–
–	3	–	–	13	1	3	42	–	1,372	–
2	8	1	60	11	143	3	3	–	44	–
50	357	4	1,801	455	1,773	74	78	–	854	–
11	317	21	191	149	24	84	44	–	8,215	–
13	10	28	348	131	108	596	175	–	1,827	–
15	55	17	366	19	17	139	50	–	295	–
1	13	10	141	56	36	60	43	–	258	–
328	294	87	1,547	774	346	500	294	–	1,734	–
6	12	4	238	157	88	121	29	–	224	–
57	27	8	473	198	455	1,771	170	–	1,347	–
1	–	2	27	8	0	–	0	–	7,528	–
22	26	6	914	223	632	219	390	–	2,568	–
477	459	947	673	814	1,183	780	537	–	4,085	–
6	24	24	62	376	302	68	39	–	237	–
3	6	3	19	6	7	7	4	–	98	–
328	857	125	782	516	399	393	231	–	4,917	–
304	436	404	2,535	595	913	899	529	–	11,629	–
219	534	31	2,009	2,144	848	225	230	–	68,008	–
12	48	8	142	238	263	120	38	–	5,372	–
0	1	0	5	10	4	4	1	–	372	–
192	210	13	155	91	15	49	71	–	626	–
327	113	5	371	26	11	7	56	–	617	–
1,063	430	66	1,537	372	173	56	214	–	2,680	–
949	2,567	1,659	1,913	131	427	228	249	–	9,593	–
56	797	55	724	229	66	16	130	–	11,114	–
1,533	3,059	1,340	5,136	1,587	635	424	1,157	–	1,105	–
28	164	14	89	–	8	5	76	–	239	–
0	30	0	20	0	0	0	5	–	1,492	0
0	102	0	2	0	1	2	7	–	4,899	2
98	93	20	1,957	714	302	87	589	–	4,959	2
–	–	–	–	–	–	–	–	–	–	–

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Table A9.2 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Domestic</b>						
Agriculture, hunting, forestry, and fishing	c1	–	–	(8)	10,294	<b>50,735</b>
Mining and quarrying	c2	–	–	(258)	593	<b>11,574</b>
Food, beverages, and tobacco	c3	–	–	(184)	24,479	<b>83,409</b>
Textiles and textile products	c4	–	–	(44)	7,294	<b>19,806</b>
Leather, leather products, and footwear	c5	–	–	(29)	672	<b>2,908</b>
Wood and products of wood and cork	c6	–	9	(0)	1,603	<b>4,499</b>
Pulp, paper, paper products, printing, and publishing	c7	–	40	51	1,472	<b>9,359</b>
Coke, refined petroleum, and nuclear fuel	c8	–	2	(2,138)	17,889	<b>42,472</b>
Chemicals and chemical products	c9	–	0	63	5,295	<b>28,378</b>
Rubber and plastics	c10	–	–	(58)	10,147	<b>30,085</b>
Other nonmetallic minerals	c11	–	0	29	10,389	<b>22,940</b>
Basic metals and fabricated metal	c12	–	21,809	(85)	50,566	<b>147,056</b>
Machinery, nec	c13	–	5	18	3,813	<b>10,181</b>
Electrical and optical equipment	c14	–	4	17	1,835	<b>11,530</b>
Transport equipment	c15	–	24,261	27	20,684	<b>65,428</b>
Manufacturing, nec; recycling	c16	–	2	(67)	2,734	<b>12,734</b>
Electricity, gas, and water supply	c17	–	–	(32)	222	<b>37,005</b>
Construction	c18	–	32,443	–	69	<b>33,914</b>
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	0	0	718	<b>1,217</b>
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	4,634	(70)	32,444	<b>77,200</b>
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	2,865	(123)	6,430	<b>61,822</b>
Hotels and restaurants	c22	–	–	–	25,630	<b>106,453</b>
Inland transport	c23	–	629	(35)	6,942	<b>18,655</b>
Water transport	c24	–	28	(1)	629	<b>5,261</b>
Air transport	c25	–	55	(1)	2,902	<b>8,203</b>
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	0	(0)	1,415	<b>6,353</b>
Post and telecommunications	c27	–	–	–	3,280	<b>13,341</b>
Financial intermediation	c28	–	–	–	1,101	<b>43,598</b>
Real estate activities	c29	–	951	–	1	<b>16,185</b>
Renting of M&Eq and other business activities	c30	–	–	–	7,504	<b>56,282</b>
Public administration and defense; compulsory social security	c31	39,113	–	–	3	<b>40,168</b>
Education	c32	26,503	–	–	236	<b>28,339</b>
Health and social work	c33	14,783	–	–	1,735	<b>21,551</b>
Other community, social, and personal services	c34	2,005	–	–	6,302	<b>19,515</b>
Private households with employed persons	c35	–	–	–	–	–

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Table A9.2 Imports Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Imports						
Agriculture, hunting, forestry, and fishing	m1	146	5	1,113	3	0	11	3
Mining and quarrying	m2	2	263	108	2	0	1	5
Food, beverages, and tobacco	m3	355	0	1,402	6	1	1	7
Textiles and textile products	m4	23	9	10	483	2	0	3
Leather, leather products, and footwear	m5	0	0	1	1	4	0	0
Wood and products of wood and cork	m6	2	0	1	2	0	91	1
Pulp, paper, paper products, printing, and publishing	m7	9	1	62	9	1	42	102
Coke, refined petroleum, and nuclear fuel	m8	75	23	7	34	1	1	1
Chemicals and chemical products	m9	412	34	89	247	26	15	50
Rubber and plastics	m10	50	8	137	65	42	3	23
Other nonmetallic minerals	m11	3	1	7	5	0	1	0
Basic metals and fabricated metal	m12	160	273	840	80	74	76	59
Machinery, nec	m13	326	316	97	262	13	6	15
Electrical and optical equipment	m14	101	44	55	140	7	3	13
Transport equipment	m15	10	3	1	0	0	0	0
Manufacturing, nec; recycling	m16	14	4	14	123	20	1	2
Electricity, gas, and water supply	m17	2	2	29	17	0	1	3
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	40	18	170	35	8	3	10
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	19	5	59	19	6	2	19
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	28	9	51	12	2	1	4
Hotels and restaurants	m22	2	1	3	0	1	0	1
Inland transport	m23	5	1	24	5	1	0	1
Water transport	m24	560	277	2,393	481	113	61	128
Air transport	m25	20	16	84	20	5	4	9
Other supporting and auxiliary transport activities; activities of travel agencies	m26	7	4	75	29	7	5	10
Post and telecommunications	m27	4	24	30	9	1	1	7
Financial intermediation	m28	71	11	71	29	3	6	12
Real estate activities	m29	1	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	57	330	221	53	5	6	56
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	2	1	21	11	1	0	3
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	15,625	8,916	67,969	13,886	1,794	2,592	3,601
Taxes less subsidies on products	r99	968	442	2,564	513	97	70	121
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	34,143	2,216	12,875	5,406	1,017	1,837	5,637
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	50,735	11,574	83,409	19,806	2,908	4,499	9,359

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Table A9.2 Imports Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	5	107	0	9	0	0
Mining and quarrying	m2	17,187	3,398	4	6,841	391	185	272
Food, beverages, and tobacco	m3	1	37	4	2	0	2	3
Textiles and textile products	m4	1	20	37	15	56	8	17
Leather, leather products, and footwear	m5	0	0	0	2	4	0	0
Wood and products of wood and cork	m6	0	0	0	0	12	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	4	10	2	67	2	2
Coke, refined petroleum, and nuclear fuel	m8	509	58	14	9	44	1	1
Chemicals and chemical products	m9	234	1,254	791	76	118	29	43
Rubber and plastics	m10	1	21	484	3	722	75	27
Other nonmetallic minerals	m11	4	9	3	74	26	2	4
Basic metals and fabricated metal	m12	8	85	192	160	28,721	681	706
Machinery, nec	m13	186	91	83	54	237	165	53
Electrical and optical equipment	m14	155	57	182	16	199	174	682
Transport equipment	m15	0	0	0	0	14	0	0
Manufacturing, nec; recycling	m16	36	19	20	9	185	2	3
Electricity, gas, and water supply	m17	1	8	13	7	36	4	4
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	13	21	31	15	237	25	13
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	10	34	20	8	16	23	22
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	4	7	10	5	152	11	7
Hotels and restaurants	m22	0	2	1	1	8	1	1
Inland transport	m23	0	3	4	4	24	2	1
Water transport	m24	119	926	646	755	4,403	467	296
Air transport	m25	4	33	22	25	147	17	15
Other supporting and auxiliary transport activities; activities of travel agencies	m26	2	13	45	31	131	8	6
Post and telecommunications	m27	0	5	13	8	54	15	6
Financial intermediation	m28	2	27	25	24	81	15	24
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	4	55	51	35	488	44	75
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	2	1	2	10	2	2
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	38,468	22,702	18,503	19,825	117,566	7,026	8,601
Taxes less subsidies on products	r99	3,292	1,179	736	895	1,832	217	314
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	713	4,497	10,845	2,219	27,659	2,938	2,614
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	42,472	28,378	30,085	22,940	147,056	10,181	11,530

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Table A9.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
3	8	2	6	0	4	4	240	3	0	2	1
27	351	4,092	1,155	0	0	0	181	43	0	0	0
0	3	10	0	0	15	8	1,753	1	0	11	1
24	62	14	38	2	37	36	141	18	7	6	2
5	21	0	1	3	51	50	1	0	0	1	0
13	75	0	28	0	2	1	1	0	0	0	0
37	8	3	8	2	69	49	28	2	1	0	5
3	4	22	50	1	17	9	37	249	61	56	6
58	114	103	244	2	31	24	45	137	33	31	3
229	60	6	57	6	470	373	66	18	2	1	4
5	5	9	144	0	3	2	3	4	0	0	0
5,441	544	379	2,064	43	899	664	307	124	36	39	56
169	28	171	220	12	187	69	99	83	69	47	3
166	59	446	473	3	118	83	92	165	137	94	6
2,189	0	0	0	6	174	103	0	31	35	23	2
14	82	12	66	2	31	16	66	0	0	0	33
16	2	50	6	1	66	13	107	1	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0
68	25	25	49	1	22	51	161	8	2	2	2
24	16	4	14	0	9	2	32	5	4	4	1
25	10	13	18	0	1	34	58	2	0	1	0
3	1	3	2	2	40	49	6	1	0	0	2
8	2	3	3	0	4	5	17	2	1	0	0
1,569	414	794	1,211	27	802	963	134	9	523	18	10
55	32	25	33	22	645	767	110	7	50	583	125
58	17	7	4	7	154	187	62	35	51	232	163
29	7	10	17	4	115	102	124	4	6	17	14
58	18	114	36	15	360	325	128	22	17	18	9
0	0	0	0	0	0	0	0	0	0	0	0
140	33	62	153	2	224	170	359	250	34	51	56
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
19	2	5	4	0	73	55	89	3	0	1	10
–	–	–	–	–	–	–	–	–	–	–	–
<b>41,342</b>	<b>8,933</b>	<b>20,202</b>	<b>24,109</b>	<b>901</b>	<b>29,754</b>	<b>24,201</b>	<b>59,820</b>	<b>9,690</b>	<b>3,746</b>	<b>6,154</b>	<b>3,303</b>
1,591	533	1,129	1,147	9	1,280	1,015	4,550	579	190	270	133
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
22,495	3,268	15,675	8,659	307	46,166	36,607	42,083	8,386	1,325	1,780	2,916
–	–	–	–	–	–	–	–	–	–	–	–
<b>65,428</b>	<b>12,734</b>	<b>37,005</b>	<b>33,914</b>	<b>1,217</b>	<b>77,200</b>	<b>61,822</b>	<b>106,453</b>	<b>18,655</b>	<b>5,261</b>	<b>8,203</b>	<b>6,353</b>

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Table A9.2 Imports Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	2	5	3	19	9
Mining and quarrying	m2	0	0	0	0	0
Food, beverages, and tobacco	m3	0	6	0	3	22
Textiles and textile products	m4	2	16	3	39	14
Leather, leather products, and footwear	m5	0	0	0	0	3
Wood and products of wood and cork	m6	0	1	0	6	1
Pulp, paper, paper products, printing, and publishing	m7	10	66	1	456	114
Coke, refined petroleum, and nuclear fuel	m8	1	26	2	21	16
Chemicals and chemical products	m9	3	3	8	102	37
Rubber and plastics	m10	2	7	3	67	3
Other nonmetallic minerals	m11	0	0	0	4	2
Basic metals and fabricated metal	m12	207	149	61	1,133	595
Machinery, nec	m13	4	6	3	172	117
Electrical and optical equipment	m14	39	16	6	383	161
Transport equipment	m15	0	0	1	6	2
Manufacturing, nec; recycling	m16	3	3	1	172	46
Electricity, gas, and water supply	m17	5	6	16	11	13
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	6	19	11	60	17
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	6	1	9	4
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	3	6	6	36	8
Hotels and restaurants	m22	3	9	1	38	38
Inland transport	m23	0	1	0	4	7
Water transport	m24	3	4	1	25	46
Air transport	m25	112	141	10	123	67
Other supporting and auxiliary transport activities; activities of travel agencies	m26	106	43	2	165	11
Post and telecommunications	m27	129	73	13	291	66
Financial intermediation	m28	52	120	98	125	8
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	120	232	134	520	156
Public administration and defense; compulsory social security	m31	0	0	0	0	–
Education	m32	0	0	0	0	0
Health and social work	m33	0	6	0	0	0
Other community, social, and personal services	m34	10	11	3	275	95
Private households with employed persons	m35	–	–	–	–	–
Total intermediate consumption	r60	6,970	12,295	5,366	28,977	12,100
Taxes less subsidies on products	r99	333	626	294	1,373	547
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	6,037	30,677	10,526	25,932	27,521
International transport margins		–	–	–	–	–
Output at basic prices	r69	13,341	43,598	16,185	56,282	40,168

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Table A9.2 Imports Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
25	28	7	–	801	0	0	0	2	–	2,579
0	0	5	–	8	0	0	0	107	–	34,628
46	24	11	–	2,562	0	0	0	(9)	–	6,287
9	27	11	–	1,006	0	0	0	(11)	–	2,189
0	0	7	–	324	0	0	0	18	–	499
13	0	0	–	4	0	0	1	2	–	256
407	14	16	–	241	0	11	11	28	–	1,901
2	7	4	–	545	–	0	0	(1,463)	–	453
24	183	41	–	718	0	5	1	1,781	–	7,151
2	18	7	–	70	0	0	1	(26)	–	3,110
1	1	2	–	11	0	0	2	(0)	–	339
222	275	178	–	1,640	0	0	16,164	(835)	–	62,500
53	65	17	–	189	0	0	4	40	–	3,729
313	1,083	109	–	1,376	0	5	265	22	–	7,444
0	0	0	–	2,384	0	0	5,423	14	–	10,421
106	33	61	–	662	0	0	1	(3)	–	1,862
19	8	9	–	84	0	0	0	0	–	563
0	0	0	–	0	0	0	7	(0)	–	8
25	14	14	–	191	0	0	0	0	–	1,410
4	10	4	–	34	0	8	63	(12)	–	512
14	8	8	–	96	0	0	41	2	–	691
17	3	5	–	1,508	0	0	0	0	–	1,751
7	2	1	–	180	0	1	18	489	–	828
19	13	6	–	2,206	–	11	132	(29)	–	20,540
12	26	55	–	671	–	0	46	(1)	–	4,137
5	2	24	–	352	0	0	0	(0)	–	2,057
34	7	42	–	652	0	0	0	(0)	–	1,932
26	11	16	–	738	–	2	0	(1)	–	2,714
0	0	0	–	0	0	0	0	0	–	4
59	31	102	–	179	0	5	5	(1)	–	4,557
0	0	0	–	0	–	0	0	(0)	–	0
0	0	0	–	0	0	3	0	0	–	4
0	0	0	–	389	0	604	0	(0)	–	1,002
41	8	79	–	843	0	164	0	(0)	–	1,851
–	–	–	–	–	–	–	–	–	–	–
<b>11,554</b>	<b>9,851</b>	<b>6,603</b>	–	<b>207,463</b>	<b>5</b>	<b>83,225</b>	<b>109,923</b>	<b>(2,815)</b>	<b>267,321</b>	<b>1,338,067</b>
486	529	356	–	13,223	0	(1,783)	3,358	13	–	45,023
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	(7,298)	–	–	–	–	–	(7,298)
–	–	–	–	35,695	–	–	–	–	–	35,695
16,299	11,171	12,556	–	–	–	–	–	–	–	445,001
–	–	–	–	–	–	–	–	–	–	–
<b>28,339</b>	<b>21,551</b>	<b>19,515</b>	–	<b>249,083</b>	<b>5</b>	<b>81,442</b>	<b>113,282</b>	<b>(2,802)</b>	<b>267,321</b>	<b>1,856,488</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

# A10

## APPENDIX 10: INPUT-OUTPUT TABLES FOR 2010 AND 2017—VIET NAM



**Table A10.1: Viet Nam Input–Output Table, 2010** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	7,022	3	15,826	170	7	1,311	36
Mining and quarrying	c2	38	1,307	93	25	10	1	28
Food, beverages, and tobacco	c3	6,145	3	8,823	1	0	0	20
Textiles and textile products	c4	193	18	13	5,838	787	10	55
Leather, leather products, and footwear	c5	4	1	1	116	2,568	3	11
Wood and products of wood and cork	c6	66	1	23	28	2	857	155
Pulp, paper, paper products, printing, and publishing	c7	98	6	437	94	160	25	1,242
Coke, refined petroleum, and nuclear fuel	c8	1,125	1,019	130	37	15	28	22
Chemicals and chemical products	c9	1,531	180	169	513	157	44	147
Rubber and plastics	c10	145	176	310	116	363	31	139
Other nonmetallic minerals	c11	26	3	14	1	0	1	2
Basic metals and fabricated metal	c12	204	704	205	39	138	54	41
Machinery, nec	c13	49	322	17	13	8	4	6
Electrical and optical equipment	c14	46	38	20	15	12	3	5
Transport equipment	c15	5	6	1	0	4	0	1
Manufacturing, nec; recycling	c16	148	24	149	124	37	11	13
Electricity, gas, and water supply	c17	363	172	389	153	64	39	67
Construction	c18	73	36	9	11	15	2	3
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	14	18	6	2	1	2	2
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1,066	221	2,157	493	297	210	175
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	-	-	-	-	-	-	-
Hotels and restaurants	c22	109	40	41	23	9	6	13
Inland transport	c23	237	76	418	104	62	47	37
Water transport	c24	126	23	190	49	29	23	17
Air transport	c25	38	112	44	13	9	4	5
Other supporting and auxiliary transport activities; activities of travel agencies	c26	53	13	57	33	35	23	22
Post and telecommunications	c27	85	34	30	18	11	5	11
Financial intermediation	c28	189	226	127	135	52	37	123
Real estate activities	c29	70	12	28	15	7	4	16
Renting of M&Eq and other business activities	c30	115	134	195	50	9	8	49
Public administration and defense; compulsory social security	c31	1	0	1	2	0	0	0
Education	c32	3	42	2	2	0	0	1
Health and social work	c33	2	0	1	1	1	0	0
Other community, social, and personal services	c34	12	4	11	6	6	2	6
Private households with employed persons	c35	2	0	0	2	-	0	-

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Table A10.1 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Industry								
Domestic								
Agriculture, hunting, forestry, and fishing	c1	0	449	180	5	4	9	1
Mining and quarrying	c2	2,721	696	21	917	348	2	15
Food, beverages, and tobacco	c3	18	31	3	7	3	1	1
Textiles and textile products	c4	3	8	15	10	5	2	6
Leather, leather products, and footwear	c5	0	1	6	2	1	1	0
Wood and products of wood and cork	c6	0	35	2	11	10	14	6
Pulp, paper, paper products, printing, and publishing	c7	0	75	63	66	25	5	187
Coke, refined petroleum, and nuclear fuel	c8	1,581	51	46	193	88	37	17
Chemicals and chemical products	c9	44	1,307	1,076	138	168	26	171
Rubber and plastics	c10	16	160	931	23	48	64	375
Other nonmetallic minerals	c11	0	24	16	579	37	16	63
Basic metals and fabricated metal	c12	1	56	109	102	3,505	532	1,412
Machinery, nec	c13	5	7	10	7	29	201	20
Electrical and optical equipment	c14	14	9	9	11	90	322	4,551
Transport equipment	c15	0	0	0	0	0	1	3
Manufacturing, nec; recycling	c16	2	41	23	17	28	12	153
Electricity, gas, and water supply	c17	32	109	98	267	234	27	59
Construction	c18	0	9	4	2	6	30	10
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	3	4	9	4	1	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	185	258	289	185	299	103	813
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	-	-	-	-	-	-	-
Hotels and restaurants	c22	3	20	11	14	23	13	20
Inland transport	c23	37	63	60	43	65	24	168
Water transport	c24	18	65	29	20	30	10	80
Air transport	c25	3	13	8	6	12	5	17
Other supporting and auxiliary transport activities; activities of travel agencies	c26	2	42	12	10	28	7	24
Post and telecommunications	c27	1	18	8	8	18	9	15
Financial intermediation	c28	34	129	49	62	94	54	48
Real estate activities	c29	1	17	8	8	12	14	9
Renting of M&Eq and other business activities	c30	1	121	26	23	63	26	67
Public administration and defense; compulsory social security	c31	0	0	0	0	0	0	1
Education	c32	0	2	2	1	3	1	3
Health and social work	c33	0	1	1	0	1	0	0
Other community, social, and personal services	c34	16	6	5	3	11	3	7
Private households with employed persons	c35	-	0	-	0	0	-	2

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Table A10.1 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
0	1,217	0	46	0	30	–	547	0	0	0	1
9	19	305	460	1	18	–	53	1	0	0	1
2	22	0	8	1	55	–	1,229	3	0	1	2
58	108	2	20	2	28	–	61	4	1	1	3
12	61	0	4	0	7	–	1	1	0	0	1
1	1,439	0	233	0	20	–	2	0	2	0	1
14	190	4	31	6	221	–	83	9	1	1	6
45	33	34	759	19	267	–	609	998	348	384	81
79	261	8	138	5	24	–	19	6	2	0	1
450	146	5	206	23	74	–	12	209	16	0	8
50	44	0	3,344	1	10	–	8	4	2	–	3
700	453	25	2,154	71	46	–	7	32	19	0	11
40	8	33	160	3	43	–	10	5	31	73	9
334	18	73	1,030	22	88	–	17	58	11	1	9
1,588	0	0	8	1	14	–	1	10	12	0	7
40	214	41	285	9	128	–	64	9	2	0	128
71	85	229	79	14	307	–	163	8	2	1	33
2	3	12	918	2	122	–	20	33	0	0	10
10	2	3	49	9	35	–	6	96	1	0	63
295	361	56	819	15	103	–	172	49	10	8	18
–	–	–	–	–	–	–	–	–	–	–	–
15	14	8	109	12	163	–	42	21	6	3	12
63	76	12	186	5	70	–	39	17	3	5	7
30	36	6	84	1	11	–	17	5	28	1	2
13	11	2	43	3	59	–	19	5	2	13	10
69	42	2	32	8	226	–	2	184	248	136	568
17	12	5	60	12	179	–	29	16	4	6	17
249	58	13	377	47	660	–	273	69	50	68	20
11	18	1	55	50	584	–	194	15	5	6	28
107	19	7	327	26	406	–	74	31	17	53	99
0	0	0	1	0	7	–	0	0	0	0	0
0	2	2	5	1	21	–	1	2	0	3	1
0	0	1	3	0	3	–	0	1	0	–	0
2	6	1	19	1	29	–	21	1	0	0	2
0	0	–	2	0	3	–	1	0	0	–	–

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Table A10.1 Domestic Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	0	2	5	42	1
Mining and quarrying	c2	0	0	7	4	0
Food, beverages, and tobacco	c3	12	4	5	20	2
Textiles and textile products	c4	4	3	5	8	6
Leather, leather products, and footwear	c5	0	0	0	2	0
Wood and products of wood and cork	c6	4	1	7	5	3
Pulp, paper, paper products, printing, and publishing	c7	39	44	15	228	59
Coke, refined petroleum, and nuclear fuel	c8	56	46	18	42	43
Chemicals and chemical products	c9	4	4	11	32	6
Rubber and plastics	c10	2	6	2	21	9
Other nonmetallic minerals	c11	63	4	89	21	3
Basic metals and fabricated metal	c12	59	13	33	42	13
Machinery, nec	c13	6	9	8	20	11
Electrical and optical equipment	c14	611	13	16	81	18
Transport equipment	c15	0	0	0	6	4
Manufacturing, nec; recycling	c16	14	46	25	120	50
Electricity, gas, and water supply	c17	80	58	70	42	34
Construction	c18	24	14	361	21	42
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	3	2	7	7	17
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	107	19	29	63	20
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	–	–	–	–
Hotels and restaurants	c22	16	83	26	132	117
Inland transport	c23	29	12	12	53	31
Water transport	c24	11	2	3	10	3
Air transport	c25	6	21	13	46	22
Other supporting and auxiliary transport activities; activities of travel agencies	c26	8	0	0	5	0
Post and telecommunications	c27	742	79	29	119	45
Financial intermediation	c28	21	2,020	86	67	25
Real estate activities	c29	30	202	217	105	22
Renting of M&Eq and other business activities	c30	620	169	139	599	83
Public administration and defense; compulsory social security	c31	0	0	1	1	13
Education	c32	14	10	6	15	15
Health and social work	c33	0	3	1	1	5
Other community, social, and personal services	c34	7	7	10	113	18
Private households with employed persons	c35	–	0	–	0	0

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Table A10.1 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
12	3	3	0	9,216	–	0	715	1,515	3,599	<b>41,979</b>
1	1	16	0	843	–	–	0	528	6,457	<b>14,947</b>
11	8	5	0	10,985	–	6	2	1,090	12,422	<b>40,955</b>
5	8	35	0	1,107	–	0	–	116	7,283	<b>15,831</b>
0	0	3	0	889	–	–	0	528	5,049	<b>9,273</b>
1	0	8	0	161	–	–	0	125	513	<b>3,738</b>
28	17	191	0	164	–	1	4	(15)	256	<b>4,079</b>
26	8	50	1	548	–	–	–	(364)	26	<b>8,467</b>
12	547	53	0	492	–	0	0	(264)	785	<b>7,895</b>
5	10	17	0	176	–	0	0	121	1,966	<b>6,382</b>
2	2	18	0	215	–	–	–	(371)	1,174	<b>5,466</b>
6	5	22	0	96	–	0	0	(539)	1,868	<b>12,240</b>
7	14	10	0	576	–	0	1,254	413	349	<b>3,791</b>
17	21	54	0	1,272	–	–	926	719	6,994	<b>17,547</b>
0	0	2	0	1,222	–	–	4,100	350	414	<b>7,762</b>
68	112	45	1	2,034	–	0	909	244	2,886	<b>8,259</b>
28	30	64	0	1,051	–	4	–	(3)	18	<b>4,543</b>
37	24	15	0	651	–	1	22,487	132	6	<b>25,150</b>
3	2	6	0	705	–	–	–	–	15	<b>1,111</b>
18	71	50	0	2,341	–	–	599	0	2,796	<b>14,768</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
33	9	34	1	3,743	–	0	0	0	3,416	<b>8,362</b>
16	18	17	0	1,924	–	–	131	0	991	<b>5,159</b>
2	7	5	0	264	–	0	57	0	508	<b>1,801</b>
9	4	7	0	695	–	–	8	–	631	<b>1,933</b>
1	0	3	–	47	–	–	–	–	961	<b>2,907</b>
21	7	22	1	2,715	–	488	–	(0)	218	<b>5,111</b>
18	7	34	0	2,400	–	–	–	–	476	<b>8,397</b>
105	3	51	0	3,493	–	0	46	1	5	<b>5,469</b>
65	16	78	0	1,629	–	249	4	0	315	<b>6,015</b>
3	1	1	–	111	–	3,876	–	–	–	<b>4,023</b>
54	3	3	0	3,123	–	970	–	(0)	233	<b>4,547</b>
3	16	2	–	2,407	–	585	–	–	224	<b>3,265</b>
8	9	252	0	2,489	–	280	0	0	123	<b>3,495</b>
0	0	1	–	109	–	–	–	–	0	<b>121</b>

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Table A10.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	1,073	1	2,565	29	1	166	4
Mining and quarrying	m2	4	226	17	5	2	0	4
Food, beverages, and tobacco	m3	786	0	1,233	0	0	0	3
Textiles and textile products	m4	61	5	4	1,768	239	4	17
Leather, leather products, and footwear	m5	0	0	0	11	252	0	1
Wood and products of wood and cork	m6	2	0	1	1	0	29	4
Pulp, paper, paper products, printing, and publishing	m7	25	2	115	24	40	7	312
Coke, refined petroleum, and nuclear fuel	m8	1,400	1,277	183	45	19	52	26
Chemicals and chemical products	m9	2,159	223	261	693	226	90	198
Rubber and plastics	m10	30	37	72	24	74	9	28
Other nonmetallic minerals	m11	3	1	2	0	0	0	0
Basic metals and fabricated metal	m12	207	697	214	39	138	61	40
Machinery, nec	m13	112	702	42	29	17	10	13
Electrical and optical equipment	m14	37	31	17	12	9	3	4
Transport equipment	m15	1	2	0	0	1	0	0
Manufacturing, nec; recycling	m16	52	8	61	31	9	5	5
Electricity, gas, and water supply	m17	9	4	11	3	1	2	1
Construction	m18	0	1	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	1	1	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	10	0	12	7	2	1	4
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	9	3	4	2	1	1	1
Inland transport	m23	3	1	5	1	1	1	0
Water transport	m24	8	0	19	11	1	2	3
Air transport	m25	13	24	14	5	2	2	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	1	0	0	0	0
Post and telecommunications	m27	4	1	2	1	0	0	1
Financial intermediation	m28	51	52	38	32	12	16	27
Real estate activities	m29	2	0	1	0	0	0	0
Renting of M&Eq and other business activities	m30	20	20	38	8	1	2	7
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	1	7	1	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	1	0	1	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	25,488	8,300	34,869	11,023	5,924	3,258	3,178
Taxes less subsidies on products	r99	587	302	692	373	170	59	95
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	15,904	6,345	5,393	4,434	3,179	421	806
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	41,979	14,947	40,955	15,831	9,273	3,738	4,079

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Table A10.1 Import Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
0	78	31	1	1	1	1	0	228	0	6	0	3
500	128	4	169	62	0	3	1	5	26	81	0	2
2	4	0	1	0	0	0	0	3	0	1	0	7
2	2	4	3	1	1	1	18	34	1	6	1	8
0	0	1	0	0	0	0	1	6	0	0	0	1
0	1	0	0	0	0	0	0	42	0	8	0	1
0	19	16	17	6	1	47	4	49	1	8	2	63
1,931	62	56	235	116	45	20	58	42	57	951	24	320
71	1,752	1,439	187	242	35	229	111	361	14	188	7	32
3	32	187	5	12	13	76	96	31	1	43	5	15
0	3	2	73	5	2	8	7	6	0	430	0	1
0	56	108	102	3,527	531	1,408	701	461	26	2,157	71	46
12	16	21	16	69	315	45	88	19	81	361	6	91
13	9	7	9	76	253	3,559	260	15	63	813	17	75
0	0	0	0	0	0	3	410	0	0	2	0	4
0	10	6	4	7	3	42	11	72	13	59	2	33
1	2	2	6	5	1	1	2	2	6	2	0	6
0	0	0	0	1	0	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	0	2	0	1
9	13	6	5	4	1	12	3	2	0	7	0	7
0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	1	1	2	1	1	1	1	1	9	1	10
0	1	1	0	1	0	2	1	1	0	2	0	1
3	4	3	5	4	1	8	2	2	0	4	0	19
1	3	2	2	3	1	7	3	3	1	10	1	15
0	0	0	0	0	0	0	0	0	0	1	0	1
0	1	0	0	1	0	1	1	0	0	2	0	6
8	29	11	14	24	12	11	60	15	4	93	11	141
0	0	0	0	0	0	0	0	0	0	1	1	10
0	18	4	3	10	4	10	17	3	1	52	4	56
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	1	1	0	3
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	1	0	0	0	0	0	1	0	1
-	-	-	-	-	-	-	-	-	-	-	-	-
7,299	6,069	5,038	3,612	9,472	2,795	13,824	6,236	6,383	1,190	17,352	526	5,041
297	186	149	144	207	84	571	378	138	51	437	42	489
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
871	1,639	1,196	1,710	2,561	913	3,152	1,148	1,738	3,301	7,360	543	9,238
-	-	-	-	-	-	-	-	-	-	-	-	-
8,467	7,895	6,382	5,466	12,240	3,791	17,547	7,762	8,259	4,543	25,150	1,111	14,768

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Table A10.1 Import Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	–	93	0	0	0	0
Mining and quarrying	m2	–	4	0	0	0	0
Food, beverages, and tobacco	m3	–	154	0	0	0	0
Textiles and textile products	m4	–	18	1	0	0	1
Leather, leather products, and footwear	m5	–	0	0	0	0	0
Wood and products of wood and cork	m6	–	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	–	21	2	0	0	2
Coke, refined petroleum, and nuclear fuel	m8	–	755	1,212	411	462	109
Chemicals and chemical products	m9	–	26	7	2	0	1
Rubber and plastics	m10	–	2	42	3	0	2
Other nonmetallic minerals	m11	–	1	0	0	0	0
Basic metals and fabricated metal	m12	–	6	31	19	0	11
Machinery, nec	m13	–	22	12	66	157	19
Electrical and optical equipment	m14	–	13	44	9	1	7
Transport equipment	m15	–	0	2	3	0	2
Manufacturing, nec; recycling	m16	–	18	3	1	0	38
Electricity, gas, and water supply	m17	–	3	0	0	0	1
Construction	m18	–	1	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	–	0	3	0	0	2
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	–	2	0	1	1	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	–	0	0	0	0	0
Hotels and restaurants	m22	–	3	1	0	0	1
Inland transport	m23	–	0	0	0	0	0
Water transport	m24	–	1	0	8	2	1
Air transport	m25	–	4	1	3	4	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	–	0	0	0	0	0
Post and telecommunications	m27	–	1	1	0	0	1
Financial intermediation	m28	–	61	15	11	15	5
Real estate activities	m29	–	4	0	0	0	1
Renting of M&Eq and other business activities	m30	–	11	4	2	7	16
Public administration and defense; compulsory social security	m31	–	0	0	0	0	0
Education	m32	–	0	0	0	0	0
Health and social work	m33	–	0	0	0	0	0
Other community, social, and personal services	m34	–	1	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–
Total intermediate consumption	r60	–	5,019	3,288	1,366	1,416	1,385
Taxes less subsidies on products	r99	–	213	95	37	39	52
Cif/fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	–	3,130	1,775	398	478	1,470
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	–	8,362	5,159	1,801	1,933	2,907

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Table A10.1 Import Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	0	1	7	0	2	2	1	0	1,543	-
0	0	1	1	0	0	0	2	0	144	-
1	1	1	3	0	1	1	1	0	1,470	-
2	1	1	4	3	2	3	11	0	347	-
0	0	0	0	0	0	0	0	0	93	-
0	0	0	0	0	0	0	0	0	4	-
10	12	4	58	15	7	5	48	0	58	-
68	56	21	54	53	33	9	60	2	722	-
5	6	15	45	9	18	745	74	0	719	-
0	1	1	4	2	1	2	3	0	38	-
7	1	11	3	0	0	0	2	0	29	-
59	13	33	42	13	6	5	22	0	100	-
14	19	17	44	25	15	28	21	0	1,181	-
476	13	13	63	18	13	17	42	0	1,078	-
0	0	0	1	1	0	0	1	0	318	-
4	14	7	39	19	23	34	14	0	458	-
2	1	1	1	1	1	1	1	0	21	-
0	3	0	0	0	0	0	0	0	7	-
0	0	0	0	1	0	0	0	0	25	-
0	1	0	1	1	0	1	1	0	6	-
0	0	0	0	0	0	0	0	0	1	-
1	6	2	9	7	2	1	2	0	250	-
0	0	0	1	0	0	0	0	0	19	-
0	0	1	0	1	0	0	0	0	7	-
1	4	3	10	5	2	1	2	0	150	-
0	0	1	0	0	0	0	0	-	2	-
26	3	2	5	2	1	0	1	0	103	-
5	451	20	16	6	5	2	8	0	577	-
1	4	4	2	0	3	0	1	0	72	-
89	24	21	94	12	11	2	12	0	255	-
0	0	0	0	0	0	0	0	-	0	-
2	2	1	3	2	10	1	0	0	530	-
0	0	0	0	0	0	1	0	-	198	-
0	0	0	5	1	0	0	11	0	108	-
-	-	-	-	-	-	-	-	-	-	-
<b>3,367</b>	<b>3,535</b>	<b>1,434</b>	<b>2,607</b>	<b>940</b>	<b>783</b>	<b>1,848</b>	<b>1,519</b>	<b>10</b>	<b>70,528</b>	-
172	206	117	160	42	78	46	102	0	3,709	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,572	4,656	3,917	3,248	3,041	3,685	1,371	1,874	111	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>5,111</b>	<b>8,397</b>	<b>5,469</b>	<b>6,015</b>	<b>4,023</b>	<b>4,547</b>	<b>3,265</b>	<b>3,495</b>	<b>121</b>	<b>74,237</b>	-

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Table A10.1 Import Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Imports</b>						
Agriculture, hunting, forestry, and fishing	m1	0	109	152	–	6,100
Mining and quarrying	m2	0	0	72	–	1,462
Food, beverages, and tobacco	m3	1	0	103	–	3,778
Textiles and textile products	m4	0	0	32	–	2,608
Leather, leather products, and footwear	m5	0	0	44	–	412
Wood and products of wood and cork	m6	0	0	4	–	99
Pulp, paper, paper products, printing, and publishing	m7	0	1	(3)	–	997
Coke, refined petroleum, and nuclear fuel	m8	0	0	(416)	–	10,528
Chemicals and chemical products	m9	0	0	(315)	–	9,873
Rubber and plastics	m10	0	0	24	–	920
Other nonmetallic minerals	m11	0	0	(44)	–	556
Basic metals and fabricated metal	m12	0	0	(414)	–	10,538
Machinery, nec	m13	0	3,602	644	–	7,949
Electrical and optical equipment	m14	22	765	618	–	8,496
Transport equipment	m15	0	1,085	90	–	1,928
Manufacturing, nec; recycling	m16	0	218	67	–	1,391
Electricity, gas, and water supply	m17	0	0	(0)	–	101
Construction	m18	0	1	0	–	19
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	38
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1	15	6	–	141
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	2
Hotels and restaurants	m22	0	0	0	–	335
Inland transport	m23	0	2	0	–	43
Water transport	m24	0	1	(2)	–	119
Air transport	m25	0	2	0	–	304
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	1	0	–	11
Post and telecommunications	m27	14	0	0	–	180
Financial intermediation	m28	0	0	0	–	1,857
Real estate activities	m29	0	0	0	–	110
Renting of M&Eq and other business activities	m30	46	1	0	–	888
Public administration and defense; compulsory social security	m31	0	0	0	–	0
Education	m32	153	0	0	–	722
Health and social work	m33	40	0	0	–	243
Other community, social, and personal services	m34	12	0	0	–	147
Private households with employed persons	m35	–	–	–	–	–
<b>Total intermediate consumption</b>	<b>r60</b>	<b>6,749</b>	<b>37,045</b>	<b>4,989</b>	<b>62,975</b>	<b>387,681</b>
Taxes less subsidies on products	r99	197	801	160	–	11,678
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	102,579
International transport margins		–	–	–	–	–
<b>Output at basic prices</b>	<b>r69</b>	<b>6,947</b>	<b>37,846</b>	<b>5,149</b>	<b>62,975</b>	<b>501,938</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

**Table A10.2: Viet Nam Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	8,102	3	27,717	358	13	2,181	53
Mining and quarrying	c2	26	907	96	31	14	1	27
Food, beverages, and tobacco	c3	8,099	4	17,166	3	1	1	36
Textiles and textile products	c4	210	14	24	10,698	1,703	18	91
Leather, leather products, and footwear	c5	4	0	1	188	4,429	4	14
Wood and products of wood and cork	c6	95	1	48	66	6	1,749	277
Pulp, paper, paper products, printing, and publishing	c7	140	7	926	223	401	52	2,258
Coke, refined petroleum, and nuclear fuel	c8	2,323	1,212	363	115	50	76	51
Chemicals and chemical products	c9	2,274	160	383	1,204	478	97	283
Rubber and plastics	c10	247	215	727	269	989	72	262
Other nonmetallic minerals	c11	43	4	33	2	1	1	4
Basic metals and fabricated metal	c12	377	911	611	131	446	129	87
Machinery, nec	c13	157	892	67	56	35	14	20
Electrical and optical equipment	c14	85	45	42	41	31	8	10
Transport equipment	c15	13	11	3	1	16	1	2
Manufacturing, nec; recycling	c16	227	28	338	318	99	23	25
Electricity, gas, and water supply	c17	838	222	1,174	438	191	83	147
Construction	c18	182	70	32	47	65	6	11
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	25	25	15	7	4	4	4
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	2,107	267	5,178	1,423	882	533	339
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	–	–	–	–	–	–
Hotels and restaurants	c22	155	40	81	53	21	12	24
Inland transport	c23	334	70	861	219	137	78	60
Water transport	c24	155	21	384	98	62	37	27
Air transport	c25	49	104	83	28	21	8	9
Other supporting and auxiliary transport activities; activities of travel agencies	c26	72	14	113	74	81	39	38
Post and telecommunications	c27	100	31	51	37	22	8	16
Financial intermediation	c28	294	265	248	300	134	68	243
Real estate activities	c29	110	14	50	35	17	8	29
Renting of M&Eq and other business activities	c30	174	159	434	125	25	17	93
Public administration and defense; compulsory social security	c31	1	0	2	6	1	0	0
Education	c32	5	62	7	6	1	1	2
Health and social work	c33	5	0	5	4	2	1	0
Other community, social, and personal services	c34	19	5	25	16	16	4	11
Private households with employed persons	c35	3	0	0	5	–	0	–

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Table A10.2 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Domestic								
Agriculture, hunting, forestry, and fishing	c1	1	788	274	8	5	10	2
Mining and quarrying	c2	4,335	809	22	1,082	290	2	14
Food, beverages, and tobacco	c3	46	66	5	14	4	1	2
Textiles and textile products	c4	10	16	26	19	7	3	8
Leather, leather products, and footwear	c5	0	2	9	4	1	1	0
Wood and products of wood and cork	c6	0	76	3	24	16	19	10
Pulp, paper, paper products, printing, and publishing	c7	1	163	122	138	42	7	334
Coke, refined petroleum, and nuclear fuel	c8	4,831	146	116	487	192	67	39
Chemicals and chemical products	c9	125	3,015	2,101	273	294	38	323
Rubber and plastics	c10	47	392	2,137	53	89	88	744
Other nonmetallic minerals	c11	0	54	32	1,205	66	24	126
Basic metals and fabricated metal	c12	3	162	275	251	7,578	957	3,100
Machinery, nec	c13	25	29	33	28	86	399	73
Electrical and optical equipment	c14	41	20	19	22	156	450	9,581
Transport equipment	c15	0	1	1	2	1	3	11
Manufacturing, nec; recycling	c16	4	75	35	34	44	17	274
Electricity, gas, and water supply	c17	101	247	226	796	507	45	127
Construction	c18	1	33	12	8	18	71	32
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	3	8	9	23	7	2	2
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	526	666	590	413	529	151	1,548
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	–	–	–	–	–	–
Hotels and restaurants	c22	9	33	19	26	36	18	34
Inland transport	c23	88	115	101	71	95	29	264
Water transport	c24	41	104	46	32	41	12	121
Air transport	c25	7	22	13	10	18	6	28
Other supporting and auxiliary transport activities; activities of travel agencies	c26	5	77	22	18	43	8	41
Post and telecommunications	c27	3	27	13	13	24	10	22
Financial intermediation	c28	93	265	104	101	161	77	88
Real estate activities	c29	1	31	15	16	20	19	16
Renting of M&Eq and other business activities	c30	3	279	52	50	109	37	126
Public administration and defense; compulsory social security	c31	0	1	1	1	1	0	1
Education	c32	0	5	4	3	7	1	7
Health and social work	c33	0	3	2	1	3	1	1
Other community, social, and personal services	c34	46	14	10	6	20	4	13
Private households with employed persons	c35	–	0	–	0	0	–	5

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Table A10.2 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
1	1,862	0	50	0	52	-	860	0	0	0	1
8	19	338	327	1	19	-	51	1	0	0	0
3	41	1	10	2	115	-	2,135	4	1	1	3
81	176	5	24	3	45	-	94	5	1	1	3
14	85	1	4	1	10	-	2	1	0	0	1
2	2,692	1	312	0	42	-	4	0	3	0	2
24	361	10	42	13	469	-	150	12	1	1	9
95	83	113	1,278	49	705	-	1,495	1,613	584	572	166
134	523	20	199	10	54	-	36	7	2	0	1
788	300	14	310	53	196	-	24	290	23	0	14
92	95	1	4,663	3	23	-	14	5	2	-	4
1,440	1,102	82	3,612	191	143	-	15	51	33	0	25
118	29	152	353	8	142	-	28	11	62	164	21
601	40	214	1,477	52	213	-	32	83	17	1	17
4,442	0	1	18	2	50	-	2	19	24	0	17
65	408	106	390	19	275	-	117	11	3	0	202
120	194	821	129	33	841	-	347	12	3	2	57
5	9	50	3,095	9	369	-	62	71	1	1	27
19	4	10	79	21	88	-	13	141	1	0	118
509	729	151	1,188	31	233	-	333	64	14	10	31
-	-	-	-	-	-	-	-	-	-	-	-
22	26	20	135	23	322	-	63	24	7	3	18
86	127	28	220	8	131	-	62	18	3	5	10
40	57	12	94	3	20	-	26	5	31	1	2
16	19	5	50	6	110	-	30	6	2	14	13
91	75	6	41	15	451	-	4	213	297	153	837
21	18	11	64	19	321	-	50	16	5	6	21
390	115	33	507	98	1,523	-	511	88	66	84	33
17	34	3	70	97	1,205	-	340	18	7	7	42
182	37	18	466	54	904	-	140	40	22	66	162
0	0	1	1	0	18	-	1	0	0	0	0
1	5	8	8	2	57	-	2	3	0	5	3
1	2	5	7	0	10	-	1	1	0	-	1
4	12	3	29	2	68	-	41	2	1	0	4
0	0	-	3	0	8	-	1	0	0	-	-

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Table A10.2 Domestic Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	0	2	4	54	2
Mining and quarrying	c2	0	0	4	3	0
Food, beverages, and tobacco	c3	14	6	5	31	4
Textiles and textile products	c4	5	5	5	12	9
Leather, leather products, and footwear	c5	0	0	0	2	0
Wood and products of wood and cork	c6	4	1	8	8	5
Pulp, paper, paper products, printing, and publishing	c7	44	65	16	366	100
Coke, refined petroleum, and nuclear fuel	c8	90	89	25	88	95
Chemicals and chemical products	c9	5	7	13	54	11
Rubber and plastics	c10	3	10	3	38	17
Other nonmetallic minerals	c11	72	6	101	39	6
Basic metals and fabricated metal	c12	93	26	48	94	31
Machinery, nec	c13	12	21	14	50	30
Electrical and optical equipment	c14	808	23	19	149	36
Transport equipment	c15	1	0	1	15	10
Manufacturing, nec; recycling	c16	16	71	27	201	90
Electricity, gas, and water supply	c17	109	103	94	80	70
Construction	c18	45	37	730	59	122
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	4	4	9	13	35
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	130	29	34	108	36
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	–	–	–	–
Hotels and restaurants	c22	17	118	27	201	188
Inland transport	c23	29	16	11	75	47
Water transport	c24	10	2	3	13	4
Air transport	c25	6	27	12	65	33
Other supporting and auxiliary transport activities; activities of travel agencies	c26	9	1	0	8	0
Post and telecommunications	c27	846	94	25	152	61
Financial intermediation	c28	25	3,119	94	111	44
Real estate activities	c29	33	290	215	163	36
Renting of M&Eq and other business activities	c30	745	263	142	1,030	153
Public administration and defense; compulsory social security	c31	0	1	1	2	25
Education	c32	21	20	9	32	33
Health and social work	c33	1	8	2	4	15
Other community, social, and personal services	c34	9	11	12	201	33
Private households with employed persons	c35	–	0	–	0	0

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Table A10.2 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
24	15	5	0	11,478	–	0	427	471	8,901	<b>63,721</b>
1	2	15	0	806	–	–	0	119	11,087	<b>20,458</b>
27	41	9	0	20,099	–	10	2	300	31,432	<b>79,745</b>
10	35	50	0	1,477	–	0	–	36	20,710	<b>35,639</b>
1	1	4	0	862	–	–	0	140	15,160	<b>20,946</b>
2	2	13	0	257	–	–	0	31	1,491	<b>7,272</b>
69	88	324	1	296	–	1	4	(6)	591	<b>7,864</b>
84	54	110	3	1,161	–	–	–	(170)	557	<b>19,009</b>
32	2,870	95	0	797	–	0	0	(107)	1,834	<b>17,649</b>
13	54	31	1	322	–	0	0	56	5,424	<b>14,316</b>
5	9	35	0	440	–	–	–	(189)	3,580	<b>10,600</b>
22	33	43	1	226	–	0	0	(309)	5,414	<b>27,433</b>
26	110	26	0	1,295	–	0	1,459	206	1,049	<b>7,297</b>
48	120	107	0	2,176	–	–	783	286	21,571	<b>39,423</b>
1	2	6	0	4,665	–	–	5,539	430	1,972	<b>17,281</b>
174	584	77	2	3,656	–	0	761	111	7,131	<b>16,038</b>
84	181	130	1	2,659	–	8	–	(2)	52	<b>11,271</b>
159	179	44	0	3,460	–	3	33,343	165	35	<b>42,665</b>
10	13	13	0	1,841	–	–	–	–	41	<b>2,615</b>
47	380	90	1	4,442	–	–	529	0	10,818	<b>35,089</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
78	45	54	1	6,696	–	0	0	0	7,338	<b>15,986</b>
35	77	26	0	2,885	–	–	99	0	2,026	<b>8,549</b>
4	30	7	0	413	–	0	41	0	972	<b>2,972</b>
20	17	11	0	1,054	–	–	6	–	1,241	<b>3,168</b>
2	1	5	–	70	–	–	–	–	1,925	<b>4,852</b>
42	29	29	1	3,704	–	448	–	(0)	475	<b>6,834</b>
46	35	60	1	4,330	–	–	–	–	1,015	<b>14,769</b>
254	16	83	0	4,567	–	0	38	0	13	<b>7,930</b>
170	86	139	0	2,840	–	567	4	0	808	<b>10,719</b>
8	5	2	–	233	–	7,507	–	–	4	<b>7,828</b>
175	21	6	0	9,076	–	2,321	–	–	602	<b>12,518</b>
11	139	4	–	10,779	–	2,138	–	–	948	<b>14,105</b>
23	50	472	0	4,514	–	537	0	0	285	<b>6,526</b>
0	0	1	–	234	–	–	–	–	0	<b>261</b>

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Table A10.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	1,865	1	5,373	78	4	464	10
Mining and quarrying	m2	6	345	29	9	4	0	8
Food, beverages, and tobacco	m3	1,584	1	2,764	1	0	0	5
Textiles and textile products	m4	140	11	15	5,807	890	10	53
Leather, leather products, and footwear	m5	1	0	0	25	578	0	2
Wood and products of wood and cork	m6	6	0	3	4	0	87	15
Pulp, paper, paper products, printing, and publishing	m7	48	3	302	65	113	15	696
Coke, refined petroleum, and nuclear fuel	m8	2,701	1,430	404	112	49	89	56
Chemicals and chemical products	m9	3,949	266	609	1,684	686	160	438
Rubber and plastics	m10	62	51	166	60	202	17	58
Other nonmetallic minerals	m11	7	1	5	0	0	0	1
Basic metals and fabricated metal	m12	352	1,018	534	103	341	100	72
Machinery, nec	m13	278	1,688	108	81	51	20	30
Electrical and optical equipment	m14	75	49	35	30	23	6	8
Transport equipment	m15	2	2	0	0	2	0	0
Manufacturing, nec; recycling	m16	104	15	147	89	29	10	12
Electricity, gas, and water supply	m17	22	6	26	11	5	2	4
Construction	m18	1	1	1	1	0	0	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	1	1	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	19	0	30	22	3	2	6
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	27	6	11	6	3	2	3
Inland transport	m23	5	1	11	2	2	1	1
Water transport	m24	7	0	27	15	1	2	3
Air transport	m25	18	31	29	9	7	3	3
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	2	0	0	0	0
Post and telecommunications	m27	9	3	6	3	2	1	2
Financial intermediation	m28	122	87	82	86	44	25	78
Real estate activities	m29	5	0	2	1	1	0	1
Renting of M&Eq and other business activities	m30	41	30	82	21	5	4	17
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	0
Education	m32	1	9	1	1	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	1	1	2	1	1	0	1
Private households with employed persons	m35	–	–	–	–	–	–	–
Total intermediate consumption	r60	38,506	10,840	68,092	24,951	13,442	6,355	6,136
Taxes less subsidies on products	r99	902	464	1,065	574	261	91	146
Cif/fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	24,312	9,155	10,588	10,113	7,243	826	1,582
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	63,721	20,458	79,745	35,639	20,946	7,272	7,864

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Table A10.2 Imports Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
0	205	85	3	3	3	2	1	471	0	15	0	10
1,117	240	8	327	145	1	6	3	8	53	122	0	4
6	10	1	2	1	0	1	1	6	0	2	0	17
6	9	16	10	6	3	6	69	104	2	18	2	24
0	0	1	1	0	0	0	3	12	0	1	0	1
0	4	0	1	1	1	1	0	148	0	23	0	2
0	49	41	40	17	3	122	9	113	2	16	4	137
4,738	151	141	495	319	98	48	162	91	131	1,862	58	731
164	4,674	3,635	395	680	80	587	315	817	32	396	17	78
9	87	531	11	31	26	195	264	68	3	89	12	42
0	7	5	146	21	5	22	20	13	0	790	1	3
1	134	257	198	8,925	1,095	3,093	1,677	947	54	3,912	172	111
34	44	58	41	211	895	121	256	45	203	739	14	206
28	18	17	16	199	520	9,749	643	33	144	1,577	44	163
0	0	0	0	0	1	6	907	0	0	4	0	7
2	46	29	14	25	9	128	36	187	35	147	7	93
3	7	7	16	18	2	4	5	5	14	4	1	19
0	1	0	0	2	1	1	2	0	0	2	0	3
0	0	0	1	0	0	0	1	0	0	3	1	3
17	28	13	11	10	2	28	7	4	1	16	0	13
0	0	0	0	0	0	0	0	0	0	0	0	0
1	5	3	3	8	3	6	5	4	3	25	3	42
1	1	1	1	2	1	4	2	2	0	4	0	2
3	6	3	8	5	1	9	3	2	1	8	0	19
2	7	5	3	8	3	12	8	6	1	22	1	37
0	0	0	0	0	0	0	0	0	0	1	0	1
0	4	1	1	3	1	3	4	1	1	9	1	27
31	89	40	32	83	35	36	195	39	10	227	33	455
0	1	1	1	1	1	1	1	1	0	3	3	33
1	54	11	9	32	10	29	52	7	3	120	11	156
0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	1	0	2	0	1	0	1	1	2	0	8
0	0	0	0	0	0	0	0	0	0	1	0	1
3	1	1	0	2	0	1	0	1	0	3	0	4
–	–	–	–	–	–	–	–	–	–	–	–	–
<b>16,567</b>	<b>13,626</b>	<b>11,359</b>	<b>7,021</b>	<b>21,271</b>	<b>5,377</b>	<b>31,340</b>	<b>14,083</b>	<b>12,414</b>	<b>2,938</b>	<b>29,416</b>	<b>1,219</b>	<b>11,685</b>
456	287	229	221	319	129	878	582	212	78	673	65	753
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
1,986	3,737	2,729	3,357	5,843	1,791	7,205	2,616	3,412	8,254	12,577	1,330	22,651
–	–	–	–	–	–	–	–	–	–	–	–	–
<b>19,009</b>	<b>17,649</b>	<b>14,316</b>	<b>10,600</b>	<b>27,433</b>	<b>7,297</b>	<b>39,423</b>	<b>17,281</b>	<b>16,038</b>	<b>11,271</b>	<b>42,665</b>	<b>2,615</b>	<b>35,089</b>

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Table A10.2 Imports Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	–	174	0	0	0	0
Mining and quarrying	m2	–	7	0	0	0	0
Food, beverages, and tobacco	m3	–	286	1	0	0	1
Textiles and textile products	m4	–	47	4	1	1	2
Leather, leather products, and footwear	m5	–	0	0	0	0	0
Wood and products of wood and cork	m6	–	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	–	38	4	1	0	3
Coke, refined petroleum, and nuclear fuel	m8	–	1,523	2,251	803	828	203
Chemicals and chemical products	m9	–	56	14	4	0	2
Rubber and plastics	m10	–	5	78	6	0	3
Other nonmetallic minerals	m11	–	2	1	0	0	1
Basic metals and fabricated metal	m12	–	11	49	31	0	19
Machinery, nec	m13	–	39	20	111	312	32
Electrical and optical equipment	m14	–	23	77	15	2	13
Transport equipment	m15	–	0	4	4	0	2
Manufacturing, nec; recycling	m16	–	38	5	1	0	77
Electricity, gas, and water supply	m17	–	8	0	0	0	2
Construction	m18	–	1	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	–	0	6	0	0	4
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	–	3	1	2	1	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	–	0	0	0	0	0
Hotels and restaurants	m22	–	8	4	1	0	2
Inland transport	m23	–	1	0	0	0	0
Water transport	m24	–	1	0	8	1	0
Air transport	m25	–	8	2	3	5	4
Other supporting and auxiliary transport activities; activities of travel agencies	m26	–	0	0	0	0	0
Post and telecommunications	m27	–	3	1	1	1	2
Financial intermediation	m28	–	161	34	25	33	11
Real estate activities	m29	–	11	1	0	0	1
Renting of M&Eq and other business activities	m30	–	26	9	5	15	31
Public administration and defense; compulsory social security	m31	–	0	0	0	0	0
Education	m32	–	0	0	0	1	0
Health and social work	m33	–	0	0	0	0	0
Other community, social, and personal services	m34	–	2	0	0	0	0
Private households with employed persons	m35	–	–	–	–	–	–
Total intermediate consumption	r60	–	9,570	5,399	2,240	2,301	2,284
Taxes less subsidies on products	r99	–	327	147	57	60	80
Cif/fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	–	6,088	3,004	674	808	2,488
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	–	15,986	8,549	2,972	3,168	4,852

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Table A10.2 Imports Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	0	1	12	0	5	6	1	0	2,647	-
0	0	1	1	0	0	0	4	0	272	-
3	1	1	5	1	3	3	1	0	3,200	-
3	3	3	6	5	5	9	26	0	858	-
0	0	0	0	0	0	0	0	0	133	-
0	0	1	0	0	0	0	1	0	13	-
13	17	6	101	26	18	12	86	0	76	-
111	94	37	100	114	84	30	129	4	1,450	-
8	10	26	86	18	44	2,205	153	1	1,171	-
1	2	1	9	4	3	7	7	0	75	-
10	1	18	5	1	1	1	5	0	61	-
75	19	48	70	22	16	12	31	1	176	-
20	29	28	74	41	34	80	37	0	2,297	-
729	19	19	112	28	31	40	71	0	1,823	-
0	0	0	2	1	0	0	1	0	578	-
7	25	12	74	34	64	124	30	1	1,314	-
3	3	3	2	2	2	2	4	0	53	-
0	7	0	1	0	0	0	0	0	12	-
0	0	0	0	1	0	0	0	0	53	-
0	1	0	1	1	1	1	1	0	11	-
0	0	0	0	0	0	0	0	0	1	-
3	15	5	28	25	10	3	7	0	918	-
0	0	0	1	1	0	0	0	0	29	-
0	0	1	0	1	0	0	0	0	7	-
2	8	5	21	10	5	3	3	0	304	-
0	0	0	0	0	0	0	0	-	1	-
61	6	3	17	4	3	1	3	0	234	-
9	1,016	41	40	15	14	6	23	0	1,438	-
1	10	10	6	1	8	0	4	0	140	-
157	50	36	214	30	29	8	30	0	541	-
0	0	0	0	0	0	0	0	-	0	-
4	3	2	5	5	25	2	1	0	1,306	-
0	1	0	0	1	1	6	0	-	602	-
1	1	1	13	2	1	2	32	0	286	-
-	-	-	-	-	-	-	-	-	-	-
<b>4,431</b>	<b>5,817</b>	<b>2,024</b>	<b>4,532</b>	<b>1,779</b>	<b>2,115</b>	<b>7,890</b>	<b>2,817</b>	<b>21</b>	<b>135,889</b>	-
265	317	180	247	65	121	71	158	1	5,706	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
2,139	8,635	5,727	5,940	5,984	10,283	6,144	3,551	239	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>6,834</b>	<b>14,769</b>	<b>7,930</b>	<b>10,719</b>	<b>7,828</b>	<b>12,518</b>	<b>14,105</b>	<b>6,526</b>	<b>261</b>	<b>141,596</b>	-

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Table A10.2 Imports Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	110	536	–	12,086
Mining and quarrying	m2	0	–	152	–	2,873
Food, beverages, and tobacco	m3	2	0	280	–	8,190
Textiles and textile products	m4	0	0	92	–	8,265
Leather, leather products, and footwear	m5	0	0	87	–	847
Wood and products of wood and cork	m6	0	0	11	–	325
Pulp, paper, paper products, printing, and publishing	m7	0	0	(15)	–	2,182
Coke, refined petroleum, and nuclear fuel	m8	0	0	(1,246)	–	20,380
Chemicals and chemical products	m9	0	0	(1,350)	–	22,108
Rubber and plastics	m10	0	0	76	–	2,265
Other nonmetallic minerals	m11	0	0	(142)	–	1,012
Basic metals and fabricated metal	m12	0	0	(1,264)	–	22,411
Machinery, nec	m13	0	3,509	1,362	–	13,151
Electrical and optical equipment	m14	35	944	1,132	–	18,489
Transport equipment	m15	0	1,297	378	–	3,203
Manufacturing, nec; recycling	m16	0	420	165	–	3,557
Electricity, gas, and water supply	m17	0	0	(0)	–	267
Construction	m18	0	3	0	–	43
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	79
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	17	15	–	293
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	2
Hotels and restaurants	m22	0	0	0	–	1,197
Inland transport	m23	0	2	1	–	79
Water transport	m24	1	1	184	–	327
Air transport	m25	0	3	0	–	602
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	9
Post and telecommunications	m27	46	0	0	–	468
Financial intermediation	m28	0	0	0	–	4,692
Real estate activities	m29	0	0	0	–	251
Renting of M&Eq and other business activities	m30	103	2	1	–	1,981
Public administration and defense; compulsory social security	m31	0	0	0	–	0
Education	m32	349	0	0	–	1,735
Health and social work	m33	136	0	0	–	754
Other community, social, and personal services	m34	31	1	0	–	396
Private households with employed persons	m35	–	–	–	–	–
Total intermediate consumption	r60	14,248	49,346	2,025	166,500	767,867
Taxes less subsidies on products	r99	304	1,232	245	–	17,965
Cif/fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	203,013
International transport margins		–	–	–	–	–
Output at basic prices	r69	14,552	50,578	2,270	166,500	988,844

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.



## **Economic Indicators for Southeastern Asia and the Pacific**

### *Input-Output Tables*

This publication presents data visualization of economic statistics from Southeastern Asia and the Pacific relevant for the analysis of cross-border production arrangements at the local, regional, and global levels. Two companion publications focus on South and Central Asia, and Eastern Asia. The statistics were computed from the Asian Development Bank's multi-regional input-output database, which serves the increasing demand for structured, relevant, timely, and accurate data, especially with the onset of various economic research projects on global value chains. Supply and use tables and input-output tables in these publications address the emerging need for more systematic and comprehensive approaches in data management, economic analysis, and policy research for national economies around the world.

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