

information paper

on

economic statistics

SINGAPORE SUPPLY, USE AND INPUT-OUTPUT TABLES 2012

Singapore Department of Statistics

Apr 2016

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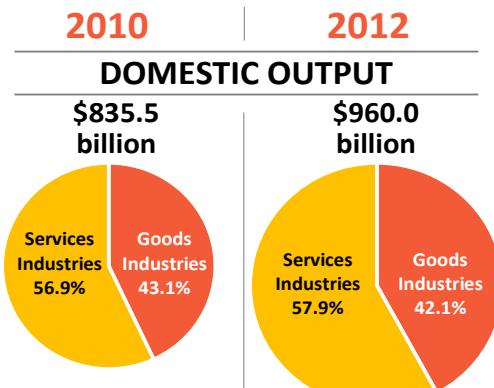
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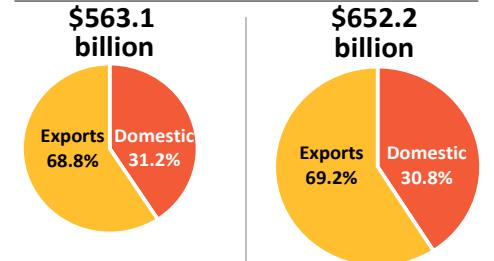
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The Singapore Economy: 2010-2012

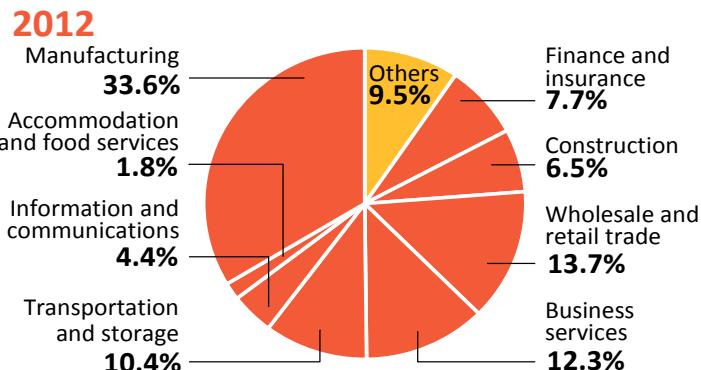
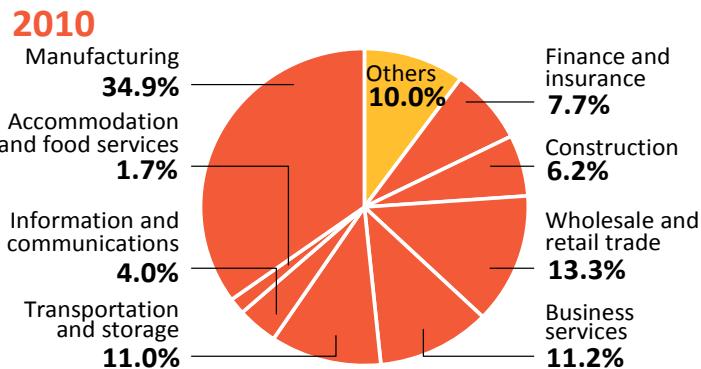
DOMESTIC OUTPUT AND FINAL DEMAND



FINAL DEMAND¹ SHARE OF DOMESTIC OUTPUT

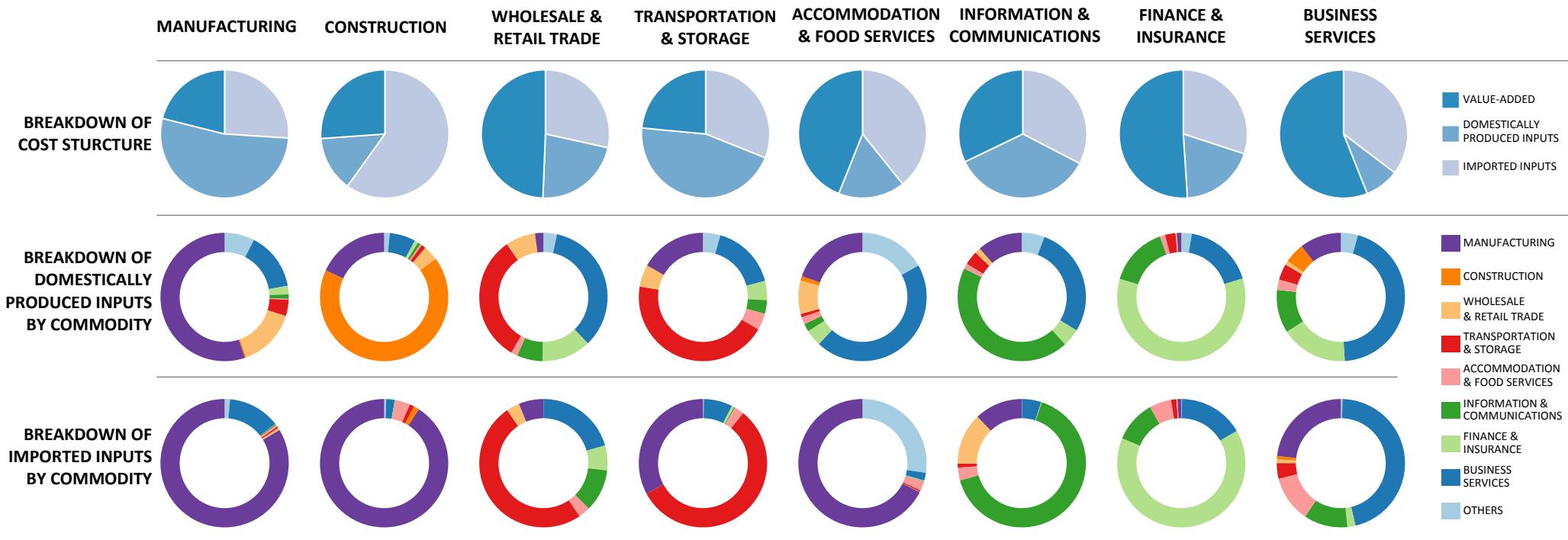


SECTORS' SHARE OF DOMESTIC OUTPUT IN THE ECONOMY



¹ Final demand consists of household and government consumption, gross capital formation and exports.

Major Sectors' Cost Structure in 2012



SINGAPORE SUPPLY, USE AND INPUT-OUTPUT TABLES 2012

Introduction

The Singapore Supply, Use and Input-Output Tables are made up of the supply and use tables (SUTs) and the input-output tables (IOTs). The SUTs are product-by-industry tables that provide detailed estimates of (1) the value-added generated by industries; (2) the cost of inputs and labour incurred; and (3) the flow of goods and services produced in the economy. The IOTs derived from the SUTs provide an integrated and comprehensive framework for economic modelling and impact studies.

The benchmark¹ SUTs have been produced approximately once every five years to reconcile the three approaches of measuring Gross Domestic Product (GDP) and for the rebasing² of Singapore's national accounts.

As part of the ongoing efforts to provide more timely statistics to users, the Singapore Department of Statistics (DOS) will release SUTs and IOTs annually starting from reference year 2012. This information paper highlights the development of the annual SUTs, explains the structure of an SUT and presents the main findings from the 2012 SUTs and IOTs.

Role of Supply and Use Tables

The GDP aggregate is measured via three approaches, namely, production, income and expenditure. Each approach measures the same GDP but as the three measures are derived separately, statistical discrepancies can be expected. Exhibit 1 shows how GDP by the three approaches is derived.

Exhibit 1: Derivation of GDP at Current Market Prices

| Production Approach (P) |
|---|
| Output – Intermediate consumption + Taxes on products |
| Expenditure Approach (E) |
| Final demand – Total imports |
| Income Approach (I) |
| Compensation of employees + Gross operating surplus + Taxes less subsidies on production + Taxes on products |

¹ To date, the Singapore Department of Statistics (DOS) has published nine sets of benchmark SUTs for reference years 1973, 1978, 1983, 1988, 1990, 1995, 2000, 2005, 2010 and one set of intermediate SUTs for reference year 2007.

² Rebasing is the process of updating the reference period and incorporating the latest international standards and guidelines.

The SUTs framework is used to bring together the many different data sources and reconcile the three different measures of GDP to achieve a single consistent measure of GDP during the benchmark years that end with “0” and “5”.

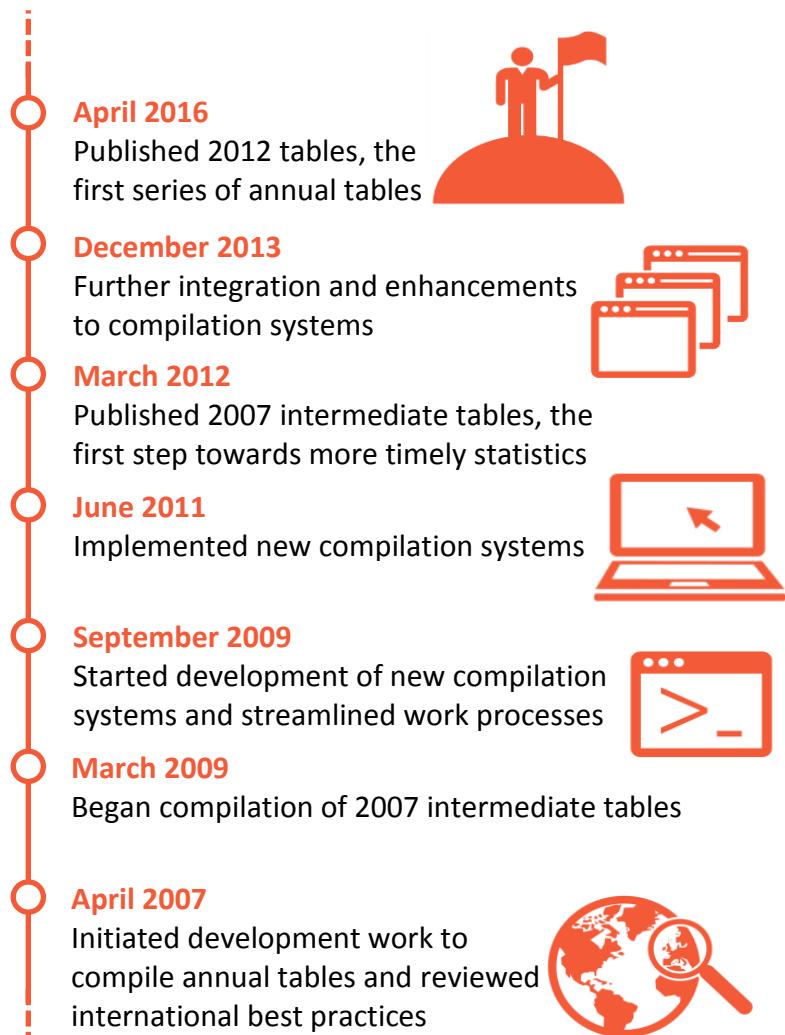
For the more timely annual SUTs, the annual tables are used to (1) narrow the statistical discrepancies between the three measures; and (2) provide timely data for economic modelling and impact studies. Moving forward, plans are already afoot to completely reconcile the statistical discrepancies.

Providing Timely Statistics to Our Users

To provide more timely statistics to our users, the SUTs and IOTs will be released annually from reference year 2012 onwards. The work towards more timely SUTs began in 2007 which led to the release of the intermediate SUTs for reference year 2007, a preliminary step towards annual tables.

By 2013, the various compilation systems and work processes were integrated and streamlined to shorten the compilation cycle to produce the annual SUTs. Exhibit 2 summarises the development of the annual SUTs.

Exhibit 2: Development of Annual Supply, Use and Input-Output Tables



Basic Structure of the Supply and Use Tables

The Singapore SUTs comprise three tables, namely the domestic supply table, domestic use table and import use table.

- (1) Domestic Supply Table – The domestic supply table records the domestic production of all industries by product. The total of each column gives the total output of an industry and the total of each row presents the total output of a particular product.
- (2) Domestic Use Table – The domestic use table records the domestically produced products purchased or used for intermediate consumption and final demand. Each industry column shows the inputs used by the industry and each product row shows the usage of the domestically produced product by industries. The final demand columns detail the purchases by households, government, industries (for capital formation) and the rest of the world. A schematic representation is given in Exhibit 3.
- (3) Import Use Table – The import use table records imported products entering industries (as intermediate inputs) and final demand (as consumption or capital formation).

These tables show the supply and demand of products in terms of 71 industries and 71 products at basic price³. The Input-Output (IO) industry codes are based on the *Singapore Standard Industrial Classification 2010* (SSIC 2010) while the IO product codes utilise the World Customs Organisation *Harmonised Product Description and Coding System Nomenclature 2012* (HS 2012) for goods and the United Nations *Central Product Classification, Version 2* (CPC Ver.2) for services. For the purpose of this paper, the SUTs are aggregated into 11 industrial sectors and products and the three tables are given in Appendix 1, 2 and 3⁴.

³ The correspondence between the annual IO industry/product codes, SSIC, HS and CPC is in Appendix 4. The correspondence between the annual and the 2010 benchmark IO industry/product codes is in Appendix 5.

⁴ The correspondence between the 11 industry/product codes and the annual IO industry/product codes is in Appendix 6.

Exhibit 3: Schematic Representation of Domestic Use Table

| Sales by Product | Purchases by Industry | | | | | | Total Intermediate Use | Final Demand | | | | | Total Use |
|------------------------------------|-----------------------|------------|-----|-----|-----|------------|------------------------|---------------------------------|------------------------------------|-------------------------------|------------------------|-----------------------------|-----------|
| | Industry 1 | Industry 2 | ... | ... | ... | Industry n | | Private Consumption Expenditure | Government Consumption Expenditure | Gross Fixed Capital Formation | Changes in Inventories | Exports of Goods & Services | |
| Product 1 | | | | | | | | | | | | | |
| Product 2 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Product n | | | | | | | | | | | | | |
| Imports of Goods and Services | | | | | | | | | | | | | |
| Taxes on Products | | | | | | | | | | | | | |
| Gross Value-Added at Basic Price | | | | | | | | | | | | | |
| Taxes less Subsidies on Production | | | | | | | | | | | | | |
| Compensation of Employees | | | | | | | | | | | | | |
| Gross Operating Surplus | | | | | | | | | | | | | |
| Total Inputs | Total Industry Inputs | | | | | | | Total Final Demand | | | | | |



Corresponds to aggregates shown as components of GDP, by production approach



Corresponds to aggregates shown as components of GDP, by expenditure approach



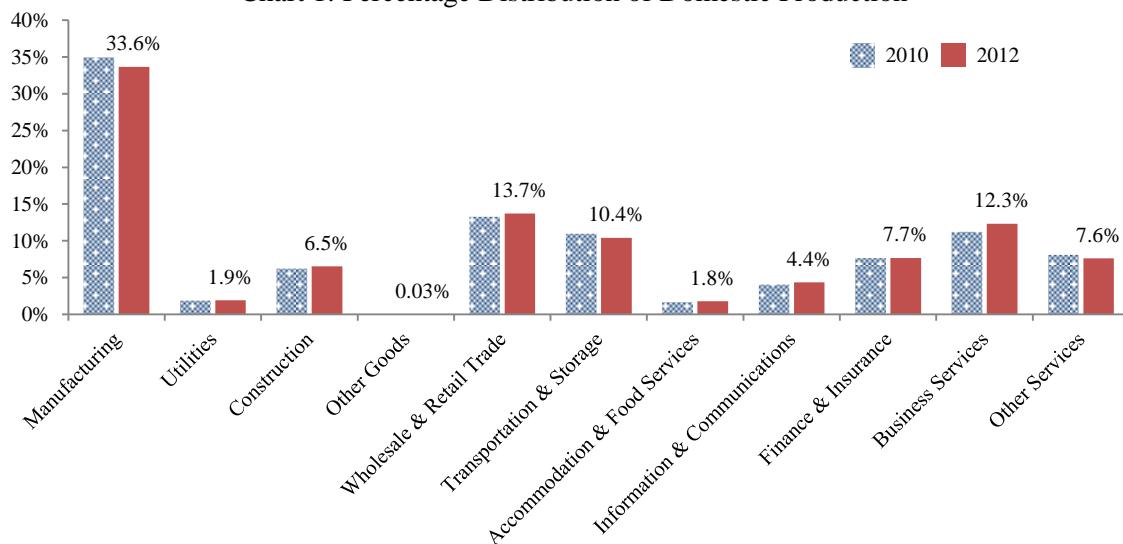
Corresponds to aggregates shown as components of GDP, by income approach

Quadrant 1 shows domestically produced products purchased by industries as intermediate inputs to current production while Quadrant 2 records the domestically produced products consumed by final demand. Quadrant 3 shows the rest of the inputs required by industries, namely retained imports, taxes on products and value-added while Quadrant 4 shows retained imports and taxes on products which are consumed by final demand. Collectively, Quadrants 1 and 2 show the total usage of each domestically produced product while Quadrants 1 and 3 show the inputs used to produce the total output of each industry. The four quadrants presented together allow for the computation of GDP by each of the three approaches, namely the production approach, expenditure approach and income approach.

Domestic Supply

The Singapore economy produced \$960.0 billion worth of goods and services in 2012, a 14.9 per cent increase from \$835.5 billion in 2010. The services industries⁵ accounted for 57.9 per cent of total domestic output while the goods industries contributed the remaining 42.1 per cent. Chart 1 below shows the comparison of domestic production shares by industrial sectors between 2010 and 2012.

Chart 1: Percentage Distribution of Domestic Production



The share of the goods industries as a proportion of total domestic production fell 1.0 percentage point from 43.1 per cent in 2010 to 42.1 per cent in 2012 while the share of the services industries inched upwards from 56.9 per cent in 2010 to 57.9 per cent in 2012.

Intermediate Use

The intermediate inputs used by all industries amounted to \$619.9 billion, a 16.7 per cent increase from \$531.1 billion in 2010. The use of intermediate inputs as a share of domestic production rose 1.0 percentage point from 63.6 per cent in 2010 to 64.6 per cent in 2012.

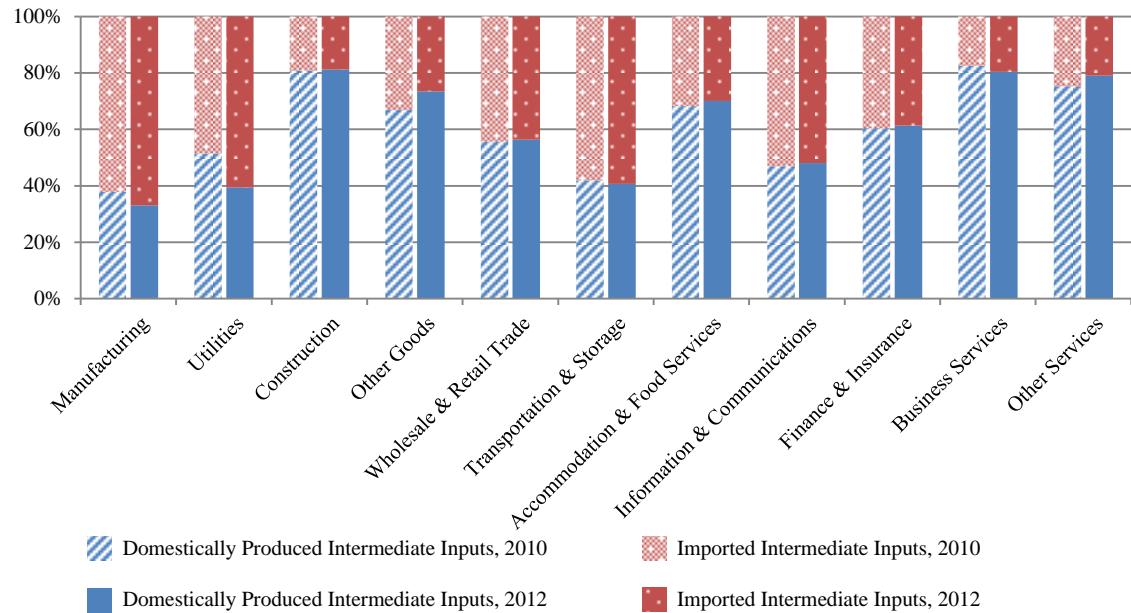
The intermediate inputs supplied by domestic industries rose 13.0 per cent from \$272.4 billion in 2010 to \$307.8 billion in 2012. The services industries consumed 58.8 per cent of domestic intermediate inputs, 3.5 percentage points higher than in 2010, while the goods industries accounted for the remaining 41.2 per cent.

On the other hand, total retained imports of goods and services purchased by industries as intermediate inputs rose sharply by 20.8 per cent from \$257.7 billion in 2010 to \$311.3 billion in 2012. The goods industries consumed 60.2 per cent of retained imports, 0.6 percentage points higher compared to 2010.

⁵ The services industries comprise wholesale and retail trade, accommodation and food services, transportation and storage, information and communications, finance and insurance, business services, and other services. The goods industries comprise manufacturing, utilities, other goods and construction.

Chart 2 shows the distribution between domestically produced and imported intermediate inputs used by industrial sectors between 2010 and 2012.

Chart 2: Percentage Distribution of Intermediate Inputs by Industrial Sector



The utilities sector saw an increase of 12.1 percentage points in imported intermediate inputs driven by increased use of energy inputs, while higher usage of materials saw the manufacturing sector's share of imported intermediate inputs rise by 4.8 percentage points.

Chart 3: Percentage Distribution of Intermediate Inputs by Type

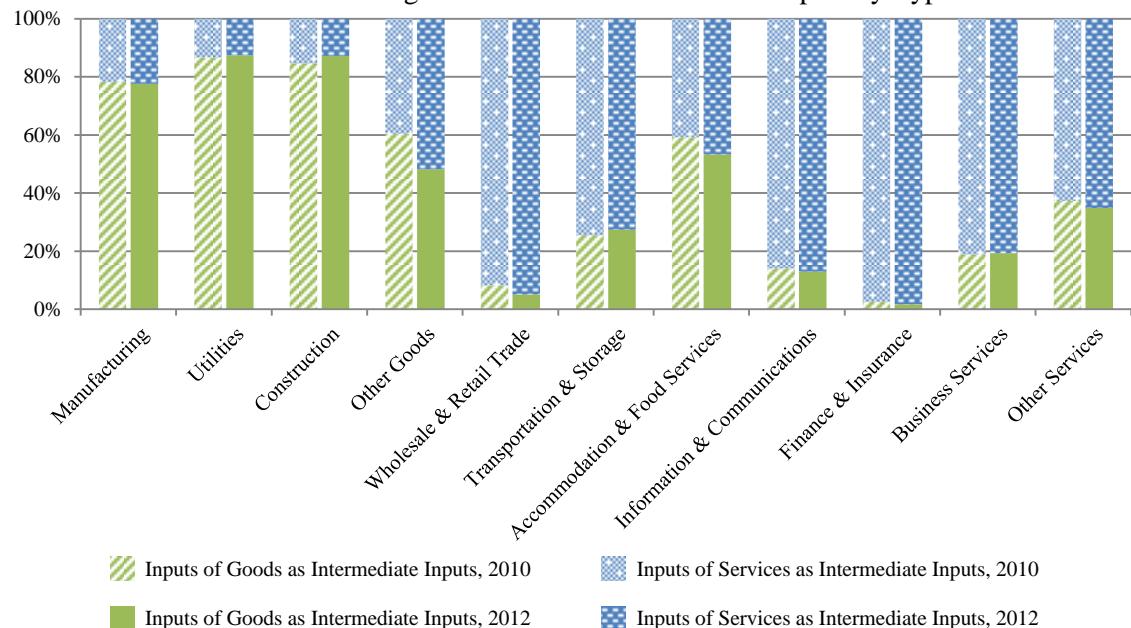


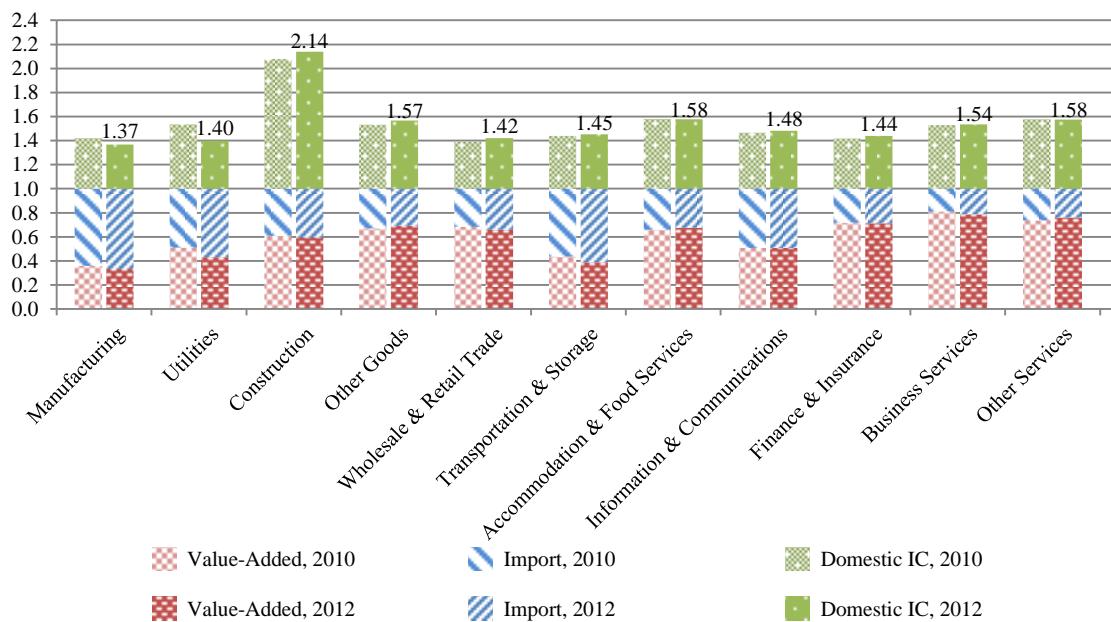
Chart 3 shows the distribution between inputs of goods and inputs of services used by industrial sectors between 2010 and 2012. The ratio of inputs of services to total intermediate inputs rose 1.3 percentage points from 49.3 per cent in 2010 to 50.6 per cent in 2012.

Multiplier Analysis

Multiplier analysis is one of the main applications of IOTs. A multiplier is a ratio that measures the impact on the total economy as a result of an initial exogenous change in any of the final demand components. The relationship between the initial autonomous change and the total effects on the entire economy generated by the change is known as the multiplier effect.

Different multipliers are generated for different analysis. The most commonly used multipliers are output, value-added, income, import and employment multipliers. Chart 4 shows the value-added (VA), import and domestic intermediate consumption (IC) multipliers of the 11 industrial sectors. For example, a \$1 increase in the final demand of the construction sector will lead to an additional \$2.14 of output generated for the whole economy (comprising \$0.40 of imports, \$1.14 of domestic IC and \$0.60 of VA of which \$0.31 goes to households as income).

Chart 4: Multipliers by Industrial Sector Per Dollar Change in Final Demand



Output Multiplier

The output multipliers increased in most sectors in 2012 from 2010, for example, construction ($2.08 \rightarrow 2.14$), wholesale & retail trade ($1.39 \rightarrow 1.42$) and other goods sectors ($1.53 \rightarrow 1.57$). On the other hand, the utilities sector posted the largest decline in the output multiplier ($1.54 \rightarrow 1.40$) arising from a lower share of domestic inputs used for production compared to 2010.

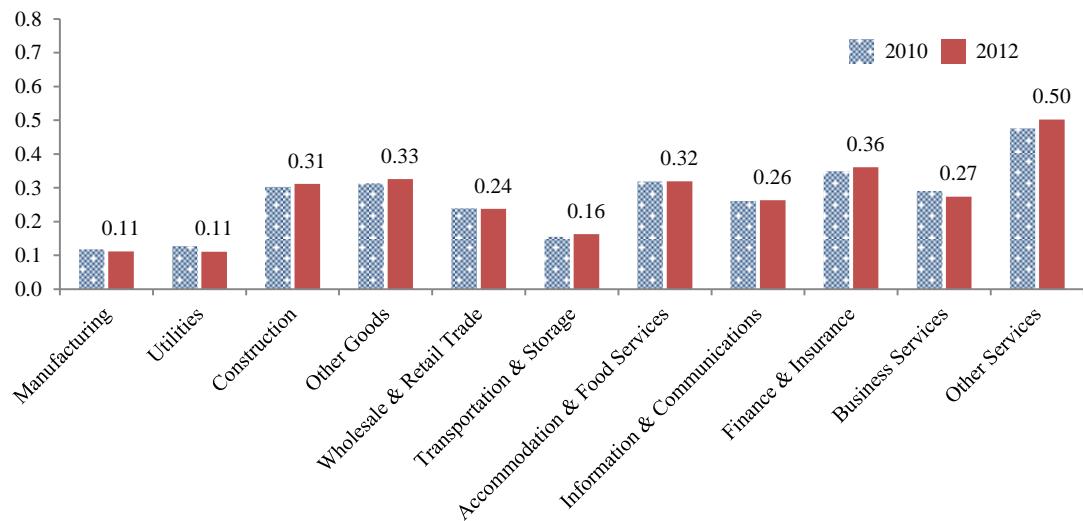
VA Multiplier

During the same period from 2010 to 2012, the VA multiplier rose in the other services ($0.73 \rightarrow 0.76$), other goods ($0.67 \rightarrow 0.69$) and accommodation & food services sectors ($0.66 \rightarrow 0.67$), due to a lower usage of imported intermediate inputs. However, the VA multipliers declined for the remaining sectors, with the utilities sector registering the largest drop ($0.51 \rightarrow 0.43$).

Income Multiplier

In 2012, the income multipliers (see Chart 5) were generally higher compared to 2010, led by the other services ($0.48 \rightarrow 0.50$), other goods ($0.31 \rightarrow 0.33$) and finance & insurance sectors ($0.35 \rightarrow 0.36$).

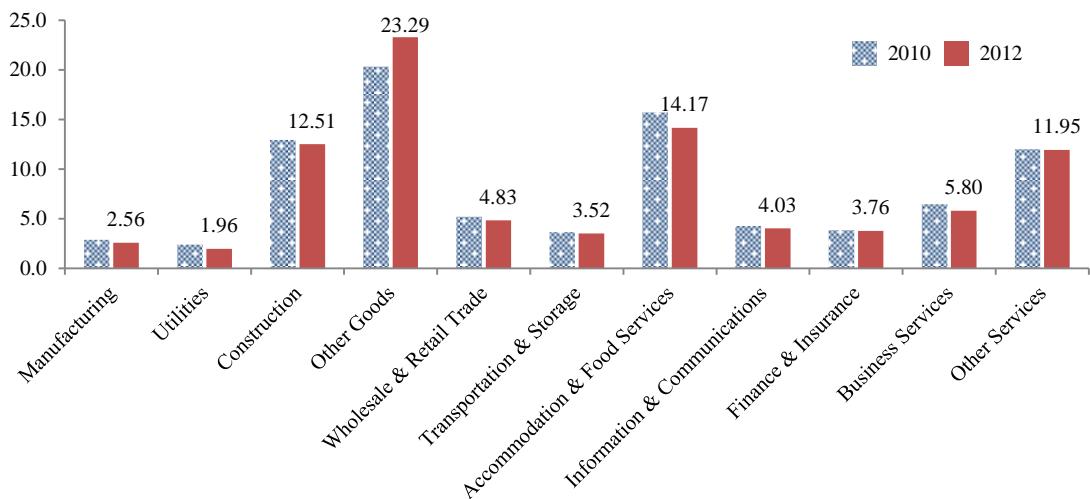
Chart 5: Income Multipliers by Industrial Sector Per Dollar Change in Final Demand



Employment Multiplier

The employment multipliers mostly declined from 2010 to 2012, with the accommodation & food services ($15.69 \rightarrow 14.17$) and business services sectors ($6.44 \rightarrow 5.80$) leading the decline (see Chart 6). The other goods sector bucked the trend ($20.33 \rightarrow 23.29$).

Chart 6: Employment Multipliers by Industrial Sector Per Million Dollar Change in Final Demand⁶



⁶ Administrative employment data compiled by the Ministry of Manpower was used to derive the employment multipliers in this publication.

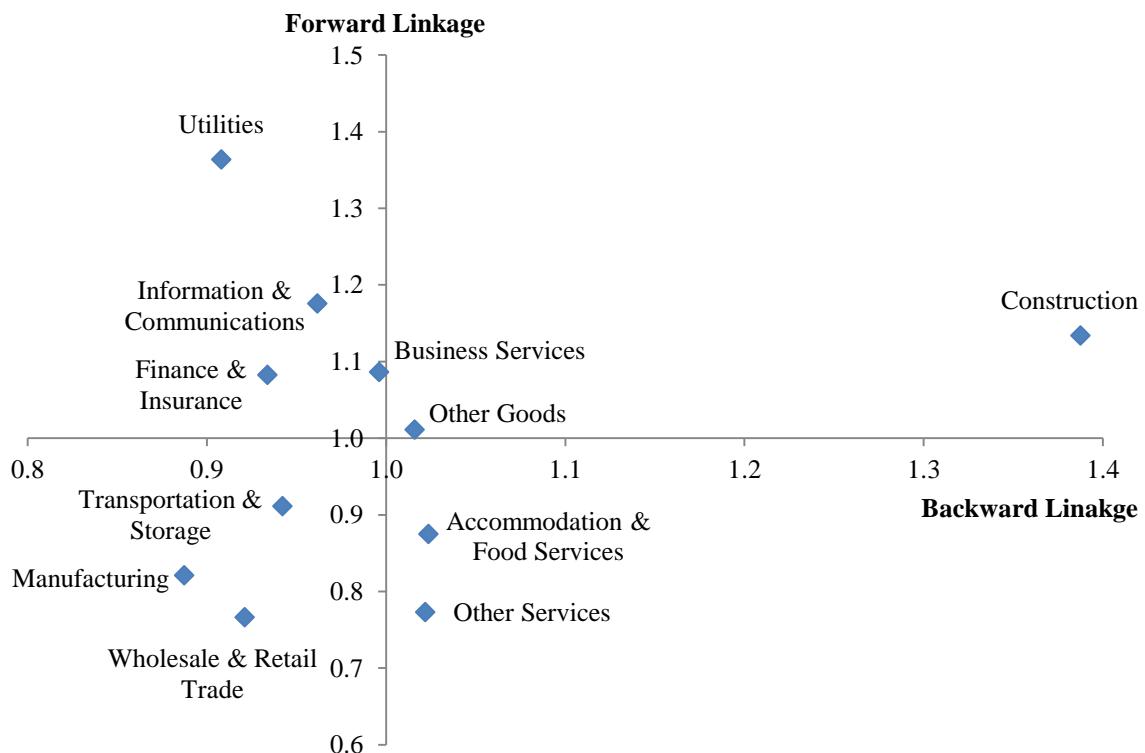
Linkage Analysis

Another application of the IOTs is linkage analysis, which analyses the backward and forward linkages of each industry. An industry's backward and forward linkages measure the industry's economic interdependence with other industries along the supply chain.

Backward linkages trace the changes in upstream production in response to a change in demand of a particular industry's output. Forward linkages trace the changes in downstream production in response to a change in supply of a particular industry's output.

Chart 7 below plots the linkages for the 11 industrial sectors. This is useful for grouping sectors into clusters to identify a sector's linkage to the rest of the economy. For example, the construction sector has above average forward and backward linkages and is in the north-east quadrant. This suggests that it is strongly connected to the rest of the economy because it is dependent on upstream sectors for inputs while downstream sectors are dependent on the output of the construction sector.

Chart 7: Backward and Forward Linkages, 2012



| Type of Linkages | Interpretation | | |
|------------------|---|-----|--------------------------|
| Backward | Industry's dependency on domestic industries | < 1 | Below average dependency |
| Forward | Domestic industries' dependency on the industry | > 1 | Above average dependency |

Table 1: Comparison of Backward and Forward Linkages

| Industrial Sector | Backward Linkage | | Forward Linkage | |
|-------------------------------|------------------|-------|-----------------|-------|
| | 2010 | 2012 | 2010 | 2012 |
| Manufacturing | 0.922 | 0.887 | 0.856 | 0.821 |
| Utilities | 0.994 | 0.908 | 1.400 | 1.364 |
| Construction | 1.347 | 1.388 | 1.062 | 1.134 |
| Other Goods | 0.994 | 1.016 | 1.126 | 1.011 |
| Wholesale & Retail Trade | 0.900 | 0.921 | 0.763 | 0.766 |
| Transportation & Storage | 0.933 | 0.942 | 0.915 | 0.911 |
| Accommodation & Food Services | 1.025 | 1.024 | 0.854 | 0.875 |
| Information & Communications | 0.951 | 0.962 | 1.102 | 1.176 |
| Finance & Insurance | 0.920 | 0.934 | 1.080 | 1.082 |
| Business Services | 0.991 | 0.996 | 1.093 | 1.086 |
| Other Services | 1.023 | 1.022 | 0.747 | 0.773 |

The construction sector had the highest backward linkage in both 2010 and 2012 (see Table 1) due to its high dependence on construction related inputs, for example prefabricated structures, which are produced in the construction sector.

In general, a high backward linkage suggests that a sector is highly dependent on other domestic industries for its inputs. Conversely, the manufacturing sector's low backward linkage is a reflection of its higher dependence on imported inputs.

The utilities sector had the highest forward linkage in both 2010 and 2012, a reflection that its services were essential to all other domestic industries. Conversely, the other services sector had low forward linkages for both 2010 and 2012, indicating that the sector supplied a smaller proportion of its output to the domestic economy.

Net Foreign Exchange Earnings

The IOTs can also be used to generate net foreign exchange earnings by industrial sector. Net foreign exchange earnings are defined as total foreign exchange earnings from domestic exports less the import requirements to produce these exports. The ratio of net foreign exchange earnings to total domestic exports gives an indication of the profit margins generated from domestic exports.

Chart 8 shows the net foreign exchange earnings of the 11 industrial sectors. Of the 11 sectors, the manufacturing sector contributed the most net foreign exchange earnings of \$76.9 billion but has the lowest share of net foreign exchange earnings to total domestic exports (see Table 2). The utilities and transportation & storage sectors showed the largest declines in the share of net foreign exchange earnings to total domestic exports, due to higher import requirements over the period.

Chart 8: Net Foreign Exchange Earnings from Exports, 2012

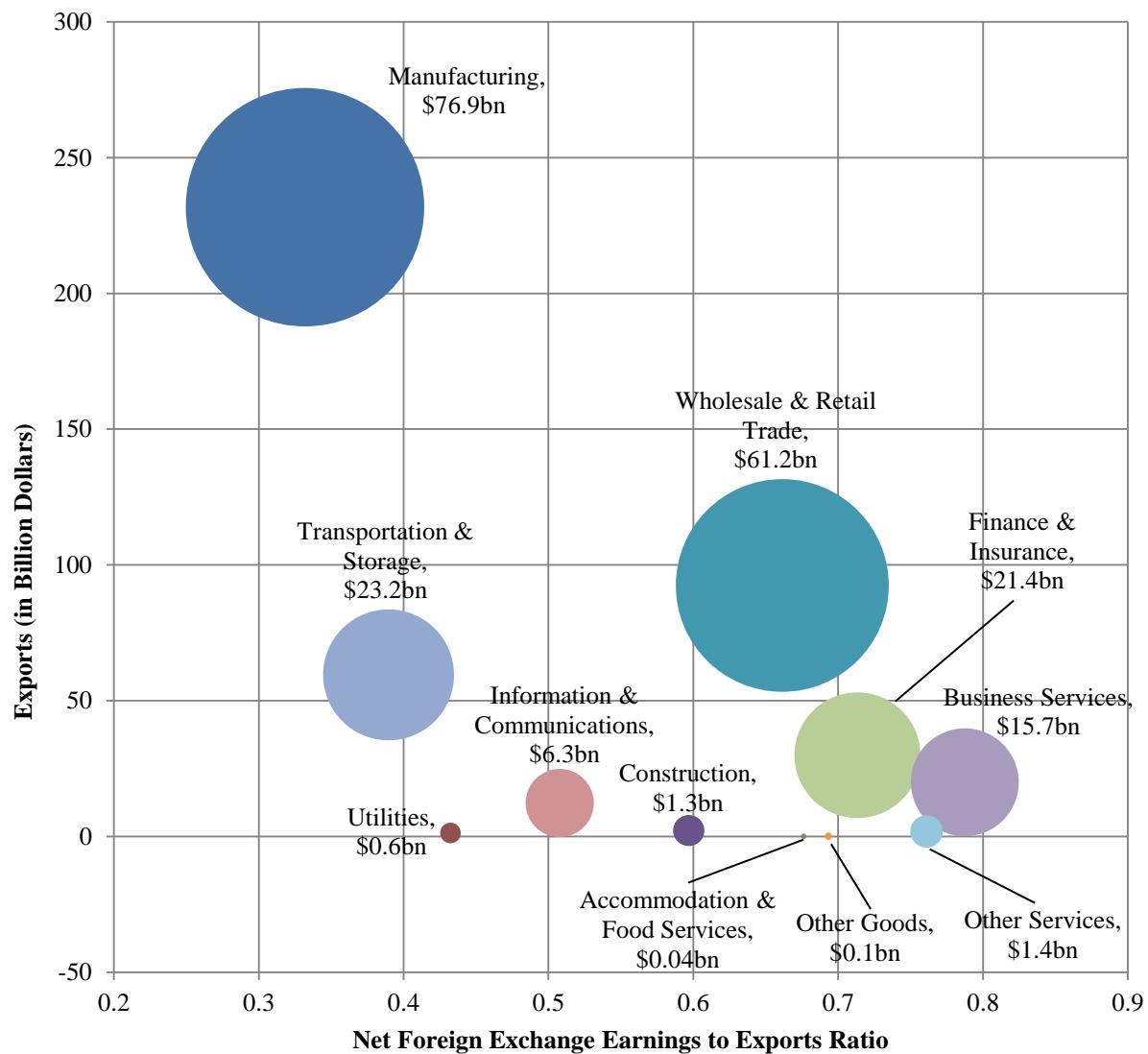


Table 2: Comparison of Net Foreign Exchange Earnings from Exports

| Industrial Sector | Exports (in Billion Dollars) | | | Import Requirements for Exports (in Billion Dollars) | | | Net Foreign Exchange Earnings (in Billion Dollars) | | | Percentage of Net Foreign Exchange Earnings to Exports | | |
|-------------------------------|---------------------------------|-------|--------|---|-------|--------|---|-------|--------|---|------|--------|
| | 2010 | 2012 | Change | 2010 | 2012 | Change | 2010 | 2012 | Change | 2010 | 2012 | Change |
| Manufacturing | 199.0 | 231.7 | 32.7 | 127.6 | 154.8 | 27.2 | 71.5 | 76.9 | 5.4 | 35.9 | 33.2 | -2.7 |
| Utilities | 1.2 | 1.3 | 0.1 | 0.6 | 0.8 | 0.2 | 0.6 | 0.6 | -0.1 | 51.2 | 43.2 | -8.0 |
| Construction | 1.2 | 2.2 | 1.0 | 0.5 | 0.9 | 0.4 | 0.7 | 1.3 | 0.6 | 61.0 | 59.7 | -1.4 |
| Other Goods | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 67.0 | 69.3 | 2.3 |
| Wholesale & Retail Trade | 79.1 | 92.4 | 13.4 | 25.0 | 31.3 | 6.3 | 54.1 | 61.2 | 7.0 | 68.4 | 66.1 | -2.3 |
| Transportation & Storage | 53.7 | 59.5 | 5.8 | 30.3 | 36.3 | 6.1 | 23.5 | 23.2 | -0.3 | 43.6 | 39.0 | -4.7 |
| Accommodation & Food Services | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 66.2 | 67.6 | 1.5 |
| Information & Communications | 10.8 | 12.4 | 1.6 | 5.3 | 6.1 | 0.8 | 5.5 | 6.3 | 0.8 | 51.0 | 50.8 | -0.2 |
| Finance & Insurance | 25.6 | 29.9 | 4.4 | 7.2 | 8.6 | 1.4 | 18.4 | 21.4 | 2.9 | 72.0 | 71.3 | -0.7 |
| Business Services | 15.3 | 20.0 | 4.6 | 2.9 | 4.2 | 1.4 | 12.5 | 15.7 | 3.3 | 81.1 | 78.8 | -2.4 |
| Other Services | 1.4 | 1.9 | 0.5 | 0.4 | 0.4 | 0.1 | 1.0 | 1.4 | 0.4 | 73.9 | 76.1 | 2.2 |
| Total | 387.5 | 451.6 | 64.0 | 199.7 | 243.5 | 43.9 | 187.9 | 208.1 | 20.2 | | | |

Note: Figures may not add up to total due to rounding.

Conclusion

The annual SUTs and IOTs will enable users to have access to more timely, accurate and relevant data for their analysis. The complete set of the 2012 annual tables at the detailed industry and product levels can be downloaded from the DOS website at www.singstat.gov.sg.

SINGAPORE DEPARTMENT OF STATISTICS
Apr 2016

APPENDICES

APPENDIX 1: DOMESTIC SUPPLY TABLE, 2012

Billion Dollars

| Supply by Product | Output by Industry | | | | | | | | | | | |
|-------------------------------|--------------------|-------------|--------------|-------------|--------------------------|--------------------------|-------------------------------|------------------------------|---------------------|-------------------|----------------|-----------------------|
| | Manufacturing | Utilities | Construction | Other Goods | Wholesale & Retail Trade | Transportation & Storage | Accommodation & Food Services | Information & Communications | Finance & Insurance | Business Services | Other Services | Total Domestic Supply |
| Manufacturing | 310.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.1 | 0.0 | 0.1 | 0.0 | 1.1 | 0.0 | 312.1 |
| Utilities | 0.4 | 18.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 18.8 |
| Construction | 0.0 | 0.0 | 61.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 63.0 |
| Other Goods | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| Wholesale & Retail Trade | 8.1 | 0.0 | 0.1 | 0.0 | 125.3 | 0.3 | 0.0 | 2.0 | 0.0 | 0.6 | 0.2 | 136.7 |
| Transportation & Storage | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 96.6 | 0.0 | 0.0 | 0.3 | 0.8 | 0.2 | 99.4 |
| Accommodation & Food Services | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.4 | 0.0 | 0.0 | 0.3 | 0.2 | 16.9 |
| Information & Communications | 0.4 | 0.0 | 0.0 | 0.0 | 0.5 | 0.1 | 0.1 | 35.0 | 0.9 | 0.5 | 0.4 | 38.0 |
| Finance & Insurance | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 70.8 | 0.0 | 0.0 | 70.8 |
| Business Services | 3.8 | 0.2 | 1.2 | 0.0 | 2.8 | 2.8 | 0.5 | 4.5 | 1.5 | 113.3 | 3.2 | 133.8 |
| Other Services | 0.1 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 68.5 | 70.1 |
| Total Output | 322.9 | 18.3 | 62.8 | 0.3 | 131.5 | 100.0 | 17.1 | 41.8 | 73.8 | 118.5 | 73.1 | 960.0 |

Note: Figures may not add up to the total due to rounding.

APPENDIX 2: DOMESTIC USE TABLE, 2012

Billion Dollars

| Sales by Product | Purchases by Industry | | | | | | | | | | Total Intermediate Use | |
|--|-----------------------|-----------|--------------|-------------|--------------------------|--------------------------|-------------------------------|------------------------------|---------------------|-------------------|------------------------|-------|
| | Manufacturing | Utilities | Construction | Other Goods | Wholesale & Retail Trade | Transportation & Storage | Accommodation & Food Services | Information & Communications | Finance & Insurance | Business Services | | |
| Total Intermediate Use at Purchasers' Prices | 254.9 | 13.0 | 46.4 | 0.1 | 66.6 | 76.6 | 9.6 | 28.4 | 36.3 | 52.3 | 35.8 | 619.9 |
| Domestic Production | 84.1 | 5.1 | 37.6 | 0.1 | 37.4 | 31.1 | 6.7 | 13.6 | 22.1 | 41.8 | 28.1 | 307.8 |
| Manufacturing | 46.3 | 0.7 | 6.8 | 0.0 | 0.8 | 5.2 | 1.3 | 1.5 | 0.2 | 4.4 | 3.6 | 71.1 |
| Utilities | 5.8 | 2.7 | 0.3 | 0.0 | 0.8 | 0.6 | 0.9 | 0.3 | 0.2 | 1.1 | 2.0 | 14.6 |
| Construction | 0.3 | 0.1 | 25.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 2.1 | 0.2 | 28.2 |
| Other Goods | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Wholesale & Retail Trade | 12.4 | 0.3 | 1.4 | 0.0 | 2.8 | 1.7 | 0.6 | 0.2 | 0.0 | 0.4 | 0.8 | 20.6 |
| Transportation & Storage | 3.4 | 0.1 | 0.4 | 0.0 | 12.0 | 13.7 | 0.1 | 0.5 | 0.6 | 1.7 | 0.4 | 32.9 |
| Accommodation & Food Services | 0.2 | 0.0 | 0.2 | 0.0 | 0.6 | 1.3 | 0.1 | 0.2 | 0.3 | 1.1 | 0.5 | 4.4 |
| Information & Communications | 1.0 | 0.1 | 0.3 | 0.0 | 2.4 | 1.1 | 0.1 | 6.0 | 3.3 | 4.6 | 2.2 | 21.0 |
| Finance & Insurance | 1.8 | 0.2 | 0.3 | 0.0 | 4.6 | 1.5 | 0.3 | 0.6 | 13.1 | 7.1 | 3.4 | 33.0 |
| Business Services | 12.3 | 0.8 | 2.5 | 0.0 | 12.9 | 5.1 | 3.0 | 3.8 | 3.9 | 18.7 | 6.4 | 69.5 |
| Other Services | 0.5 | 0.0 | 0.3 | 0.0 | 0.5 | 0.8 | 0.2 | 0.5 | 0.4 | 0.7 | 8.6 | 12.4 |
| Imports of Goods & Services | 170.8 | 7.8 | 8.8 | 0.0 | 29.1 | 45.4 | 2.9 | 14.7 | 14.0 | 10.3 | 7.5 | 311.3 |
| Taxes on Products | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.8 |
| Gross Value-Added at Basic Prices | 68.0 | 5.3 | 16.4 | 0.1 | 64.9 | 23.4 | 7.5 | 13.4 | 37.5 | 66.2 | 37.3 | 340.2 |
| Taxes less Subsidies on Production | 1.0 | 0.2 | 1.0 | 0.0 | 0.5 | 0.6 | 0.3 | 0.2 | 0.1 | 2.2 | 0.9 | 7.0 |
| Compensation of Employees | 22.0 | 1.2 | 9.5 | 0.1 | 22.1 | 10.0 | 3.9 | 7.6 | 19.5 | 21.3 | 27.7 | 144.8 |
| Gross Operating Surplus | 44.9 | 3.9 | 5.9 | 0.0 | 42.4 | 12.8 | 3.3 | 5.7 | 17.9 | 42.7 | 8.7 | 188.4 |
| Total Inputs | 322.9 | 18.3 | 62.8 | 0.3 | 131.5 | 100.0 | 17.1 | 41.8 | 73.8 | 118.5 | 73.1 | 960.0 |

Note: Figures may not add up to total due to rounding.

APPENDIX 2: DOMESTIC USE TABLE, 2012 (CONT'D)

| Sales by Product | Final Demand | | | | | | Total Use | Billion Dollars |
|---------------------------------------|---------------------------------|------------------------------------|-------------------------------|------------------------|-----------------------------|--------------------|-----------|-----------------|
| | Private Consumption Expenditure | Government Consumption Expenditure | Gross Fixed Capital Formation | Changes in Inventories | Exports of Goods & Services | Total Final Demand | | |
| Total Final Use at Purchasers' Prices | 132.9 | 32.7 | 96.0 | 10.6 | 451.6 | 723.7 | 1343.6 | |
| Domestic Production | 98.2 | 32.7 | 66.6 | 3.2 | 451.6 | 652.2 | 960.0 | |
| Manufacturing | 5.4 | 0.0 | 7.0 | 3.2 | 225.5 | 241.0 | 312.1 | |
| Utilities | 2.7 | 0.0 | 0.0 | 0.0 | 1.5 | 4.2 | 18.8 | |
| Construction | 0.0 | 0.0 | 33.0 | 0.0 | 1.9 | 34.9 | 63.0 | |
| Other Goods | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | |
| Wholesale & Retail Trade | 12.7 | 0.0 | 3.8 | 0.0 | 99.7 | 116.1 | 136.7 | |
| Transportation & Storage | 6.7 | 0.0 | 0.0 | 0.0 | 59.8 | 66.5 | 99.4 | |
| Accommodation & Food Services | 12.4 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 | 16.9 | |
| Information & Communications | 2.9 | 0.2 | 3.5 | 0.0 | 10.5 | 17.0 | 38.0 | |
| Finance & Insurance | 8.3 | 0.0 | 0.0 | 0.0 | 29.5 | 37.8 | 70.8 | |
| Business Services | 22.3 | 0.9 | 19.3 | 0.0 | 21.8 | 64.3 | 133.8 | |
| Other Services | 24.8 | 31.7 | 0.0 | 0.0 | 1.3 | 57.7 | 70.1 | |
| Imports of Goods & Services | 19.2 | 0.0 | 24.6 | 7.4 | 0.0 | 51.2 | 362.5 | |
| Taxes on Products | 15.5 | 0.0 | 4.8 | 0.0 | 0.0 | 20.3 | 21.0 | |
| Gross Value-Added at Basic Prices | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 340.2 | |
| Taxes less Subsidies on Production | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | |
| Compensation of Employees | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 144.8 | |
| Gross Operating Surplus | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 188.4 | |
| Total Inputs | 132.9 | 32.7 | 96.0 | 10.6 | 451.6 | 723.7 | 1683.8 | |

Note: Figures may not add up to total due to rounding.

APPENDIX 3: IMPORT USE TABLE, 2012

Billion Dollars

| Imports by Product | Purchases by Industry | | | | | | | | | | Total Intermediate Use | |
|-------------------------------|-----------------------|-----------|--------------|-------------|--------------------------|--------------------------|-------------------------------|------------------------------|---------------------|-------------------|------------------------|-------|
| | Manufacturing | Utilities | Construction | Other Goods | Wholesale & Retail Trade | Transportation & Storage | Accommodation & Food Services | Information & Communications | Finance & Insurance | Business Services | | |
| Manufacturing | 142.9 | 1.4 | 8.0 | 0.0 | 1.8 | 14.9 | 1.9 | 1.8 | 0.1 | 2.4 | 6.5 | 181.8 |
| Utilities | 1.7 | 6.4 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.1 |
| Construction | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.3 |
| Other Goods | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 |
| Wholesale & Retail Trade | 0.9 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.1 | 0.0 | 3.9 |
| Transportation & Storage | 0.7 | 0.0 | 0.1 | 0.0 | 14.6 | 25.6 | 0.0 | 0.2 | 0.2 | 0.4 | 0.1 | 41.8 |
| Accommodation & Food Services | 0.8 | 0.0 | 0.3 | 0.0 | 0.9 | 1.1 | 0.1 | 0.5 | 0.8 | 1.2 | 0.3 | 6.0 |
| Information & Communications | 0.5 | 0.0 | 0.0 | 0.0 | 3.1 | 0.1 | 0.0 | 9.7 | 1.5 | 1.1 | 0.1 | 16.1 |
| Finance & Insurance | 0.1 | 0.0 | 0.0 | 0.0 | 1.8 | 0.3 | 0.0 | 0.0 | 9.0 | 0.2 | 0.0 | 11.5 |
| Business Services | 22.5 | 0.0 | 0.2 | 0.0 | 6.0 | 3.3 | 0.1 | 0.7 | 2.3 | 4.7 | 0.3 | 40.0 |
| Other Services | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 |
| Imports of Goods & Services | 170.8 | 7.8 | 8.8 | 0.0 | 29.1 | 45.4 | 2.9 | 14.7 | 14.0 | 10.3 | 7.5 | 311.3 |

Note: Figures may not add up to total due to rounding.

APPENDIX 3: IMPORT USE TABLE, 2012 (CONT'D)

| Imports by Product | Final Demand | | | | | Total Imports | Billion Dollars |
|-------------------------------|---------------------------------|------------------------------------|-------------------------------|------------------------|--------------------|---------------|-----------------|
| | Private Consumption Expenditure | Government Consumption Expenditure | Gross Fixed Capital Formation | Changes in Inventories | Total Final Demand | | |
| Manufacturing | 16.6 | 0.0 | 19.4 | 7.4 | 43.3 | 225.1 | |
| Utilities | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.1 | |
| Construction | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | |
| Other Goods | 1.5 | 0.0 | 0.1 | 0.0 | 1.5 | 3.0 | |
| Wholesale & Retail Trade | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | |
| Transportation & Storage | 1.3 | 0.0 | 0.0 | 0.0 | 1.3 | 43.1 | |
| Accommodation & Food Services | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | |
| Information & Communications | 0.1 | 0.0 | 0.1 | 0.0 | 0.2 | 16.3 | |
| Finance & Insurance | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.5 | |
| Business Services | 0.0 | 0.0 | 5.0 | 0.0 | 5.0 | 45.1 | |
| Other Services | -0.2 | 0.0 | 0.0 | 0.0 | -0.2 | 0.1 | |
| Imports of Goods & Services | 19.2 | 0.0 | 24.6 | 7.4 | 51.2 | 362.5 | |

Note: Figures may not add up to total due to rounding.

APPENDIX 4: CORRESPONDENCE BETWEEN THE ANNUAL INPUT-OUTPUT CODES AND INDUSTRY / PRODUCT CLASSIFICATIONS

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|------------------------------------|---|---|--|
| 001 Agriculture and fishing | 0111x, 0112x, 0113x, 0114x, 0119x, 0141x, 0142x, 0149x, 01500, 0160x, 0200x, 0310x, 0320x, 0330x | 0101, 0102, 0103, 0104, 0105, 0106, 0301, 0302, 0303, 0306(part), 0307(part), 0308(part), 0407, 0408, 0409, 0410, 0508, 0511(part), 0601, 0602, 0603, 0604, 0701, 0702, 0703, 0704, 0705, 0706, 0707, 0708, 0709, 0711(part), 0713(part), 0714(part), 0801(part), 0802(part), 0803, 0804, 0805(part), 0806(part), 0807, 0808, 0809, 0810, 1001, 1002, 1003, 1004, 1005, 1006(part), 1007, 1008, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1209, 1210, 1211, 1212, 1301(part), 1401(part), 1404(part), 1521(part), 1801, 2401(part), 4101, 4102, 4103, 4301(part), 5001, 5101(part), 5102, 5201, 5301(part), 5302(part), 5303(part), 5305(part), 7101(part) | 01, 02(part), 03(part), 04, 34(part), 38(part), 81(part), 86(part) |
| 002 Food products | 1010x, 1020x, 1030x, 1040x, 1050x, 1061x, 1062x, 1071x, 1072x, 1073x, 1074x, 1075x, 1076x, 1079x, 1080x | 0201, 0202, 0203, 0204, 0205, 0206, 0207, 0208, 0209, 0210, 0304, 0305, 0306(part), 0307(part), 0308(part), 0401, 0402, 0403, 0404, 0405, 0406, 0504, 0511(part), 0710, 0711(part), 0712, 0713(part), 0714(part), 0801(part), 0802(part), 0805(part), 0806(part), 0811, 0812, 0813, 0814, 0901, 0902, 0903, 0904, 0905, 0906, 0907, 0908, 0909, 0910, 1006(part), 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1208, 1213, 1214, 1302, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515(part), 1516, 1517, 1518(part), 1521(part), 1522, 1601, 1602, 1603, 1604, 1605, 1701, 1702, 1703, 1704, 1802, 1803, 1804, 1805, 1806, 1901, 1902, 1903, 1904, 1905, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2101, 2102, 2103, 2104, 2105, 2106(part), 2201(part), 2202(part), 2209, 2301, 2302(part), 2304, 2305, | 02(part), 17(part), 21, 22, 23, 69(part), 86(part), 88(part) |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|---|--|--|--|
| | | 2306, 2309(part), 2501(part), 3501(part), 3502(part), 3505(part) | |
| 003 Beverages and tobacco products | 1101x, 1102x, 1103x, 1104x, 1200x | 2106(part), 2201(part), 2202(part), 2203, 2204, 2205, 2206, 2207(part), 2208, 2401(part), 2402, 2403 | 24(part), 25, 88(part) |
| 004 Textiles, Wearing apparel, footwear and leather products | 1310x, 1391x, 1392x, 1393x, 1394x, 1399x, 1410x, 1420x, 1430x, 1511x, 1512x, 1520x | 3926(part), 4104, 4105, 4106, 4107, 4112, 4113, 4114, 4115, 4201, 4202, 4203, 4205, 4301(part), 4302, 4303, 4304, 5002, 5004, 5005, 5006, 5007, 5101(part), 5103(part), 5105, 5106, 5107, 5108, 5109, 5110, 5111, 5112, 5113, 5203, 5204, 5205, 5206, 5207, 5208, 5209, 5210, 5211, 5212, 5301(part), 5302(part), 5303(part), 5305(part), 5306, 5307, 5308, 5309, 5310, 5311, 5401, 5402(part), 5403(part), 5406, 5407, 5408, 5504(part), 5506, 5507, 5508, 5509, 5510, 5511, 5512, 5513, 5514, 5515, 5516, 5601, 5602, 5603, 5604, 5605, 5606, 5607, 5608, 5609, 5701, 5702, 5703, 5704, 5705, 5801, 5802, 5803, 5804, 5805, 5806, 5807, 5808, 5809, 5810, 5811, 5901, 5902, 5903, 5904, 5905(part), 5907, 5908, 5909, 5910, 5911, 6001, 6002, 6003, 6004, 6005, 6006, 6101, 6102, 6103, 6104, 6105, 6106, 6107, 6108, 6109, 6110, 6111, 6112, 6113, 6114, 6115, 6116, 6117, 6201, 6202, 6203, 6204, 6205, 6206, 6207, 6208, 6209, 6210, 6211, 6212, 6213, 6214, 6215, 6216, 6217, 6301(part), 6302, 6303, 6304, 6305, 6306, 6307, 6308, 6401, 6402, 6403, 6404, 6405, 6406, 6501, 6502, 6504, 6505, 6506(part), 6507, 6702(part), 7019(part), 8804, 9113(part), 9404(part), 9605, 9619(part) | 26(part), 27(part), 28(part), 29(part), 38(part), 88(part) |
| 005 Wood and paper products | 1610x, 1621x, 1622x, 1623x, 1629x, 1701x, 1702x, 1709x | 1401(part), 1404(part), 1515(part), 3822(part), 4401(part), 4403, 4404, 4405, 4406, 4407, 4408, 4409, 4410, 4411, 4412, 4413, 4414, 4415, 4416, 4417, 4418, 4419, 4420, 4421, 4501, 4502, 4503, 4504, 4601, 4602, 4701, 4702, 4703, 4704, 4705, 4706, 4801, 4802, 4803, 4804, 4805, 4806, 4807, | 27(part), 29(part), 31, 32(part), 38(part), 88(part) |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|--------------------------------------|--|--|---|
| | | 4808, 4809, 4810, 4811, 4812, 4813, 4814, 4816, 4817, 4818, 4819, 4822, 4823, 4902(part), 5905(part), 6702(part), 6812(part), 9406(part), 9619(part), 9703(part) | |
| 006 | Printing and reproduction of recorded media | 1811x, 1812x, 1820x | 4820, 4821, 4901, 4902(part), 4903, 4904, 4905, 4906, 4907, 4908, 4909, 4910, 4911, 8523(part) |
| 007 | Petroleum products | 09001, 1910x, 1920x | 2701(part), 2704, 2706, 2707(part), 2709, 2710(part), 2711(part), 2712, 2713, 2714(part), 9893 |
| 008 | Petrochemicals and petrochemical products | 2013x | 2707(part), 2901(part), 2902, 2903(part), 2904, 2905(part), 2907(part), 2909, 2910(part), 2912(part), 2913, 2914(part), 2915(part), 2916(part), 2917(part), 2921(part), 2926(part), 2931(part), 2933(part), 3901, 3902, 3903, 3904, 3905, 3906, 3907(part), 3908, 3909(part), 3910, 3911, 3912, 3913, 3914, 4002(part), 4402(part) |
| 009 | Chemicals and chemical products | 2011x, 2012x, 2021x, 2022x, 2023x, 2024x, 2029x, 2030x | 1515(part), 1518(part), 1520, 2207(part), 2309(part), 2503, 2520(part), 2601(part), 2707(part), 2708, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818(part), 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2852, 2853, 2901(part), 2903(part), 2905(part), 2906, 2907(part), 2908, 2910(part), 2911, 2912(part), 2914(part), 2915(part), 2916(part), 2917(part), 2918(part), 2919, 2920, 2921(part), 2922(part), 2923(part), 2924(part), 2925(part), 2926(part), 2927, 2928, 2929, 2930(part), 2931(part), 2932(part), 2933(part), 2934(part), 2940, 3101, 3102, 3103, 3104, 3105, 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|------------------------------|--|--|---|
| | | 3211, 3212, 3213, 3214, 3215, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3401, 3402, 3403, 3404, 3405, 3406, 3407, 3501(part), 3502(part), 3503, 3504, 3505(part), 3506, 3507, 3601, 3602, 3603, 3604, 3802, 3803, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3817, 3818, 3819, 3820, 3821(part), 3822(part), 3823, 3824(part), 3826, 3907(part), 3909(part), 4402(part), 5402(part), 5403(part), 5404, 5405, 5501, 5502, 5503, 5504(part), 9602(part) | |
| 010 | Pharmaceuticals and biological products | 2101x, 2102x | 2903(part), 2905(part), 2915(part), 2916(part), 2918(part), 2921(part), 2922(part), 2923(part), 2924(part), 2925(part), 2926(part), 2930(part), 2932(part), 2933(part), 2934(part), 2935, 2936, 2937, 2938, 2939, 2941, 2942, 3001, 3002, 3003, 3004, 3005, 3006(part), 3821(part) |
| 011 | Rubber and plastic products | 2211x, 2212x, 2219x, 2221x, 2222x | 1301(part), 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926(part), 4001, 4002(part), 4003, 4005, 4006, 4007, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4015, 4016, 4017, 5906, 6506(part), 6809(part), 8547(part), 9405(part), 9406(part), 9703(part) |
| 012 | Other non-metallic mineral products | 0810x, 0890x, 09002, 2310x, 2391x, 2393x, 2394x, 2395x, 2396x, 2399x | 2501(part), 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520(part), 2521, 2522, 2523, 2524, 2525(part), 2526, 2528, 2529, 2530, 2701(part), 2702, 2703, 2714(part), 2715, 3801, 3816, 3824(part), 6801, 6802, 6803, 6804, 6805, 6806, 6807, 6808, 6809(part), 6810, 6811, 6812(part), 6813, 6814, 6815, 6901, 6902, 6903, 6904, 6905, 6906, 6907, 6908, 6909, 6910, 6911, 6912, 6913, 6914, 7001, 7002, 7003, 7004, 7005, 7006, 7007, 7008, 7009, 7010, 7011, 7013, 7014, 7015, 7016, 7017, 7018, 7019(part), 7020, |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|---|---|---|---|
| | | 7102(part), 7103(part), 7104(part), 8546(part), 8547(part), 9405(part), 9406(part), 9703(part), 2818(part) | |
| 013 Basic metals | 2410x, 2420x, 2431x, 2432x | 2502, 2601(part), 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2818(part), 7106, 7107, 7108, 7109, 7110, 7111, 7201, 7202, 7203, 7205, 7206, 7207, 7208, 7209, 7210, 7211, 7212, 7213, 7214, 7215, 7216, 7218, 7219, 7220, 7221, 7222, 7224, 7225, 7226, 7227, 7228, 7301, 7302, 7303, 7304(part), 7305(part), 7306(part), 7325(part), 7401, 7402, 7403, 7405, 7406, 7407, 7408, 7409, 7410, 7411, 7412(part), 7501, 7502, 7504, 7505, 7506, 7507, 7601, 7603, 7604, 7606, 7607, 7608(part), 7801, 7804, 7806(part), 7901, 7903, 7904, 7905, 8001, 8003, 8007(part), 8101(part), 8102(part), 8103(part), 8104(part), 8105(part), 8106, 8107(part), 8108(part), 8109(part), 8110(part), 8111, 8112(part), 8113, 8311(part) | 41(part), 88(part), 89(part) |
| 014 Fabricated metal products (except machinery and equipment) | 2511x, 2512x, 2513x, 2520x, 2591x, 2592x, 2593x, 2594x, 2595x, 2599x | 7217, 7223, 7229, 7304(part), 7305(part), 7306(part), 7307, 7308, 7309, 7310, 7311, 7312, 7313, 7314, 7315, 7316, 7317, 7318, 7319, 7320, 7322(part), 7323, 7324, 7325(part), 7326, 7412(part), 7413, 7415, 7418, 7419, 7508, 7605, 7608(part), 7609, 7610, 7611, 7612, 7613, 7614, 7615, 7616, 7806(part), 7907, 8007(part), 8112(part), 8201, 8202, 8203, 8204, 8205, 8206, 8207, 8208, 8209, 8210, 8211, 8212, 8213, 8214, 8215, 8301, 8302, 8303, 8304, 8305, 8306, 8307, 8308, 8309, 8311(part), 8401(part), 8402, 8404, 8484, 8487(part), 9301, 9302, 9303, 9304, 9305, 9306, 9307, 9406(part), 9703(part) | 38(part), 42, 44(part), 46(part), 49(part), 87(part), 88(part), 89(part) |
| 015 Semiconductors | 2611x, 28194 | 8541(part), 8542 | 43(part), 45(part), 46(part), 47(part), 48(part), 88(part) |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|--|---|---|--|
| 016 Other electronic components and boards | 2612x, 26205 | 8473(part), 8504(part), 8517(part), 8522(part), 8523(part), 8529(part), 8531(part), 8532, 8533, 8534, 8540, 8541(part), 8548(part), 9013(part) | 45(part), 46(part), 47(part), 48(part), 88(part) |
| 017 Computers and peripheral equipment | 26201, 26204, 26209 | 8443(part), 8470(part), 8471(part), 8472(part), 8473(part), 8528(part) | 45(part), 47(part), 88(part) |
| 018 Data storage | 26202, 26203, 2680x | 8471(part), 8523(part) | 45(part), 47(part), 88(part) |
| 019 Communications equipment and consumer electronics | 2630x, 2640x | 8443(part), 8517(part), 8518, 8519, 8521, 8522(part), 8523(part), 8525, 8527, 8528(part), 8529(part), 8531(part), 8543(part), 9504(part) | 38(part), 46(part), 47(part), 88(part) |
| 020 Scientific, photographic and optical products | 2651x, 2652x, 2660x, 2670x | 3701, 3702, 3703, 3704, 3705, 3706, 3707, 8526, 9001(part), 9002, 9005, 9006, 9007, 9008, 9010, 9011, 9012, 9013(part), 9014, 9015, 9016, 9017, 9018(part), 9021(part), 9022, 9024, 9025, 9026, 9027, 9028, 9029, 9030(part), 9031, 9032, 9033, 9101, 9102, 9103, 9104, 9105, 9106, 9107, 9108, 9109, 9110, 9111, 9112, 9114 | 47(part), 48(part), 87(part), 88(part) |
| 021 Electrical industrial apparatus, batteries and accumulators | 2710x, 2720x, 2733x, 2790x | 8501, 8502, 8503, 8504(part), 8505, 8506, 8507, 8511(part), 8512(part), 8516(part), 8530, 8531(part), 8535, 8536, 8537, 8538, 8543(part), 8545, 8546(part), 8547(part), 8548(part) | 44(part), 46(part), 47(part), 87(part), 88(part) |
| 022 Electric wiring, lighting equipment and domestic appliances | 2732x, 2740x, 2750x | 6301(part), 7321, 7322(part), 8414(part), 8418(part), 8419(part), 8420(part), 8421(part), 8422(part), 8450(part), 8451(part), 8452(part), 8508(part), 8509, 8510, 8512(part), 8513, 8516(part), 8539, 8544, 9001(part), 9405(part) | 44(part), 46(part), 88(part) |
| 023 General and special purpose machinery (except oil rigs) | 2811x, 2812x, 2814x, 2815x, 2816x, 2817x, 2819x, 2821x, 2822x, 28243, 28249, 2825x, 2826x, 2827x, 2829x, 2830x | 8401(part), 8403, 8405, 8406, 8407(part), 8408(part), 8409(part), 8410, 8411(part), 8412, 8413, 8414(part), 8415, 8416, 8417, 8418(part), 8419(part), 8420(part), 8421(part), 8422(part), 8423, 8424, 8425, 8426, 8427, 8428, 8429, 8430(part), 8431(part), 8432, 8433, 8434, 8435, 8436, 8437, 8438, 8439, 8440, 8441, 8442, 8443(part), 8444, 8445, 8446, 8447, 8448, 8449, | 38(part), 43(part), 44(part), 45(part), 48(part), 49(part), 54(part), 87(part), 88(part) |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) | |
|--------------------------------------|--|---|--|---|
| | | 8450(part), 8451(part), 8452(part), 8453, 8454, 8455, 8456, 8457, 8458, 8459, 8460, 8461, 8462, 8463, 8464, 8465, 8466, 8467, 8468, 8469, 8470(part), 8472(part), 8473(part), 8474, 8475, 8476, 8477, 8478, 8479, 8480, 8481, 8482, 8483(part), 8486, 8487(part), 8508(part), 8511(part), 8514, 8515, 8516(part), 8541(part), 8543(part), 8701(part), 8706(part), 8707(part), 8708(part), 8709, 8716(part), 9030(part) | | |
| 024 | Land transport equipment | 2910x, 2920x, 2930x, 3020x, 3040x, 3091x, 3092x, 3099x | 8407(part), 8408(part), 8409(part), 8421(part), 8483(part), 8511(part), 8512(part), 8601, 8602, 8603, 8604, 8605, 8606, 8607, 8608, 8609, 8701(part), 8702, 8703, 8704, 8705, 8706(part), 8707(part), 8708(part), 8710, 8711, 8712, 8713, 8714, 8715, 8716(part), 9401(part) | 38(part), 43(part), 44(part), 46(part), 49(part), 88(part) |
| 025 | Ships, boats and oil rigs | 28241, 28242, 3011x, 3012x | 7304(part), 8407(part), 8408(part), 8409(part), 8421(part), 8430(part), 8431(part), 8483(part), 8901, 8902, 8903, 8904, 8905, 8906, 8907 | 44(part), 49(part), 87(part), 88(part) |
| 026 | Aircraft and related machinery | 3030x | 8407(part), 8409(part), 8411(part), 8511(part), 8801, 8802, 8803, 8805, 9401(part) | 38(part), 43(part), 49(part), 88(part) |
| 027 | Medical and dental instruments and supplies | 3250x | 3006(part), 3926(part), 8419(part), 8421(part), 9001(part), 9003, 9004, 9018(part), 9019, 9020, 9021(part), 9402(part) | 35(part), 43(part), 48(part), 88(part) |
| 028 | Other manufacturing | 3100x, 3211x, 3212x, 3220x, 3230x, 3240x, 3290x | 0501, 3605, 3606, 4206, 6506(part), 6601, 6602, 6603, 6701, 6702(part), 6703, 6704, 7101(part), 7102(part), 7103(part), 7104(part), 7105, 7113, 7114, 7115, 7116, 7117, 7118, 8310, 9023, 9113(part), 9201, 9202, 9205, 9206, 9207, 9208, 9209, 9401(part), 9402(part), 9403, 9404(part), 9405(part), 9406(part), 9503, 9504(part), 9505, 9506, 9507, 9508, 9601, 9602(part), 9603, 9604, 9606, 9607, 9608, 9609, 9610, 9611, 9612, 9613, 9614, 9615, 9616, 9617, 9618, 9701, | 29(part), 32(part), 36(part), 38(part), 47(part), 48(part), 88(part) |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|--|---|--|--|
| | | 9702, 9703(part), 9704, 9705, 9706 | |
| 029 Electricity | 3510x, 3530x | 2716 | 17(part), 69(part), 86(part) |
| 030 Gas | 3520x | 2705, 2711(part) | 69(part), 86(part) |
| 031 Water and Sewerage | 3600x, 3700x | | 69(part), 86(part) |
| 032 Waste collection, treatment, disposal and material recovery services | 3810x, 3820x, 3830x | 0502, 0505, 0506, 0507, 0510, 2302(part), 2303, 2307, 2308, 2401(part), 2525(part), 2618, 2619, 2620, 2621, 2710(part), 3006(part), 3804, 3825, 3915, 4004, 4401(part), 4707, 5003, 5103(part), 5104, 5202, 5505, 6309, 6310, 7112, 7204, 7404, 7503, 7602, 7802, 7902, 8002, 8101(part), 8102(part), 8103(part), 8104(part), 8105(part), 8107(part), 8108(part), 8109(part), 8110(part), 8112(part), 8548(part), 8908, 9892 | 94 |
| 033 Construction of buildings and civil engineering | 4100x, 4210x, 4220x, 4290x | | 53(part), 54(part) |
| 034 Specialised construction activities | 4311x, 4312x, 4321x, 4322x, 4329x, 4330x, 4390x | | 54(part) |
| 035 Wholesale trade | 4610x, 4621x, 4622x, 4630x, 4641x, 4642x, 4643x, 4644x, 4645x, 4646x, 4647x, 4649x, 4651x, 4652x, 4653x, 4654x, 4655x, 4656x, 4659x, 4661x, 4662x, 4663x, 4664x, 4665x, 4666x, 4669x, 4690x | | 61 |
| 036 Retail trade | 4711x, 4719x, 4721x, 4722x, 4723x, 4731x, 4732x, 4741x, 4742x, 4751x, 4752x, 4753x, 4761x, 4762x, 4763x, 4764x, 4771x, 4772x, 4773x, 4774x, 4775x, 4776x, 4777x, 4780x, 4791x, 4799x | | 62 |
| 037 Land transport and supporting services | 4910x, 4921x, 4922x, 4923x, 4930x, 5221x | | 64(part), 65(part), 66(part), 67(part) |
| 038 Water transport and supporting services | 5001x, 5002x, 5222x, 5225x | | 64(part), 65(part), 66(part), 67(part) |
| 039 Air transport and supporting services | 5100x, 5223x | | 64(part), 65(part), 66(part), 67(part) |
| 040 Warehousing and other supporting services | 5210x, 5224x, 5229x | | 67(part) |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|---|---|---|--|
| 041 Postal and courier | 5310x, 5320x | | 68 |
| 042 Accommodation | 5510x, 5590x | | 63(part) |
| 043 Food and beverage services | 5611x, 5612x, 5613x, 5614x, 5619x, 5620x | | 63(part) |
| 044 Publishing | 5811x, 5812x, 5813x, 5819x, 5820x | | 32, 38, 47, 73(part), 84(part), 89(part) |
| 045 Media Entertainment | 5911x, 5912x, 5913x, 5914x, 5919x, 5920x, 6010x, 6020x | | 73(part), 84(part), 89(part), 96(part) |
| 046 Telecommunications | 6101x, 6109x | | 84(part) |
| 047 Computer programming, consultancy and Information services | 6201x, 6202x, 6209x, 6311x, 6312x, 6390x | | 83(part), 84(part), 85(part) |
| 048 Banking and finance | 6411x, 6412x, 6413x, 6414x, 6415x, 6416x, 6419x, 6420x, 6430x, 6491x, 6492x, 64991, 64995, 64996, 64999 | | 71(part) |
| 049 Insurance, reinsurance and pension funds | 6511x, 6512x, 6520x, 6530x | | 71(part) |
| 050 Fund management activities | 6630x | | 71(part) |
| 051 Other auxiliary financial and insurance services | 64992, 64993, 64994, 6611x, 6612x, 6619x, 6621x, 6622x, 6629x | | 71(part) |
| 052 Real estate | 6810x, 6820x | | 72 |
| 053 Ownership of Dwelling | | | |
| 054 Legal services | 6910x | | 82(part) |
| 055 Accounting, tax consultancy and auditing services | 6920x | | 82(part) |
| 056 Business representative offices and HQ | 7010x | | 83(part) |
| 057 Management consultancy, advertising and market research | 7020x, 7310x, 7320x, 74904, 74905 | | 82(part), 83(part) |
| 058 Architectural and engineering services | 7111x, 7112x, 7120x | | 83(part) |
| 059 Research and development | 7210x, 72200(part) | | 81 |
| 060 Other Professional, Scientific and technical services | 7411x, 7419x, 7420x, 74901, 74902, 74903, 74906, 74909, 7500x | | 82(part), 83(part), 85(part) |
| 061 Rental and leasing | 7710x, 7721x, 7722x, 7729x, 7731x, 7732x, 7733x, 7734x, 7739x, 7740x | | 73(part) |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|---|---|---|--|
| 062 Employment and labour contracting | 7810x, 7830x | | 85(part) |
| 063 Other administrative and business support services | 7910x, 7990x, 8000x, 8121x, 8129x, 8130x, 8211x, 8219x, 8220x, 8291x, 8292x, 8299x, 8230x | | 73(part), 85(part), 96(part) |
| 064 Producers of government services | 72200(part), 8411x, 8412x, 8421x, 8422x, 8423x, 85102(part), 85211(part), 85212, 85221(part), 85303, 85499(part), 85502(part), 85509(part), 87021(part), 87022(part), 87029(part), 88911(part), 88919(part), 88921, 88992(part), 88999(part), 91029(part), 91030(part), 91040(part) | | 91 |
| 065 Education | 85101, 85102(part), 85103, 85104, 85211(part), 85213, 85214, 85221(part), 85222, 85223, 85301, 85302, 85304, 8541x, 8542x, 85491, 85492, 85493, 85494, 85499(part), 85501, 85502(part), 85509(part) | | 92 |
| 066 Medical and health services | 8610x, 8620x, 8690x, 8701x | | 93(part) |
| 067 Social services | 87021(part), 87022(part), 87029(part), 8810x, 88911(part), 88912, 88913, 88919(part), 88922, 88929, 88991, 88992(part), 88999(part) | | 93(part) |
| 068 Arts, entertainment and recreation | 9000x, 9101x, 91021, 91022, 91029(part), 91030(part), 91040(part), 9200x, 9311x, 9312x, 9320x | | 73(part), 84(part), 96(part) |
| 069 Member organisations | 9411x, 9412x, 9420x, 9491x, 9492x, 9499x | | 95 |
| 070 Repair of computers, personal and | 9511x, 9512x, 9521x, 9522x, 9523x, 9524x, | | 83(part), 87(part) |

| Annual Input-Output Codes | Singapore Standard Industrial Classification 2010 (SSIC 2010) | Harmonised Product Description and Coding System Nomenclature 2012 (HS 2012) | Central Product Classification, Version 2 (CPC Ver.2) |
|---|--|---|--|
| household goods and vehicles | 9529x, 9530x | | |
| 071 Domestic and other personal services | 9601x, 9602x, 9603x, 9604x, 9609x, 9700x | | 86(part), 97, 98 |

APPENDIX 5: CORRESPONDENCE BETWEEN THE ANNUAL INPUT-OUTPUT CODES AND THE 2010 BENCHMARK INPUT-OUTPUT CODES

| Annual Input-Output Code | 2010 Benchmark Input-Output Code |
|--|---|
| 001 Agriculture and fishing | 001 Agriculture (except nursery products) 002 Nursery products 003 Livestock 004 Fisheries (excluding aquarium fish) 005 Aquarium fish |
| 002 Food products | 006 Food preparations 007 Oils and fats 008 Dairy products 009 Sugar, chocolate and related products 010 Bakery products 011 Coffee and tea 012 Other food products |
| 003 Beverages and tobacco products | 013 Beverages (except alcoholic drinks) 014 Alcoholic drinks and tobacco products |
| 004 Textiles, Wearing apparel, footwear and leather products | 015 Textiles 016 Wearing apparel and fur products 017 Footwear and leather products |
| 005 Wood and paper products | 018 Wood and wooden products (except furniture) 019 Paper and paper products |
| 006 Printing and reproduction of recorded media | 020 Printing and reproduction of recorded media |
| 007 Petroleum products | 021 Petroleum products |
| 008 Petrochemicals and petrochemical products | 023 Petrochemicals and petrochemical products |
| 009 Chemicals and chemical products | 022 Industrial chemicals and gases 024 Paints and related products 025 Perfumes, cosmetics and related preparations 026 Additives 027 Other chemical products |
| 010 Pharmaceuticals and biological products | 028 Pharmaceuticals and biological products |
| 011 Rubber and plastic products | 029 Rubber products 030 Plastic products |
| 012 Other non-metallic mineral products | 031 Glass and glass products 032 Clay, cement, concrete and stone products 033 Non-metallic mineral products |
| 013 Basic metals | 034 Basic metals |
| 014 Fabricated metal products (except machinery and equipment) | 035 Structural metal products 036 Metalworking (except treatment and coating of metals) 037 Treatment and coating of metals 038 Non-insulated cable products 039 Metal precision components 040 Other metal products |
| 015 Semiconductors | 041 Semiconductors |
| 016 Other electronic components and boards | 042 Printed circuit boards 043 Electron tubes and electronic display devices 048 Other electronic products |
| 017 Computers and peripheral equipment | 044 Computers and peripheral equipment |
| 018 Data storage | 045 Data storage |

| Annual Input-Output Code | | 2010 Benchmark Input-Output Code | |
|--------------------------|--|----------------------------------|--|
| 019 | Communications equipment and consumer electronics | 046 | Communications equipment |
| | | 047 | Consumer electronics |
| 020 | Scientific, photographic and optical products | 049 | Scientific, photographic and optical products |
| 021 | Electrical industrial apparatus, batteries and accumulators | 050 | Electrical industrial apparatus |
| | | 051 | Batteries and accumulators |
| 022 | Electric wiring, lighting equipment and domestic appliances | 052 | Electrical wires, cables and lighting equipment |
| | | 053 | Domestic appliances |
| 023 | General and special purpose machinery (except oil rigs) | 054 | Lifting and handling machinery |
| | | 055 | Other machinery and equipment (including installation and engineering works) |
| | | 056 | Refrigerators and air-conditioners |
| | | 058 | Semiconductor related equipment |
| 024 | Land transport equipment | 059 | Land transport equipment |
| 025 | Ships, boats and oil rigs | 057 | Oil rigs and oilfield machinery |
| | | 060 | Building and repairing of ships and boats |
| | | 061 | Marine engines and ship parts |
| 026 | Aircraft and related machinery | 062 | Aircraft and related machinery |
| 027 | Medical and dental instruments and supplies | 065 | Medical and dental instruments and supplies |
| 028 | Other manufacturing | 063 | Furniture (except of stone) |
| | | 064 | Jewellery and related articles |
| | | 066 | Other manufacturing |
| 029 | Electricity | 067 | Electricity |
| 030 | Gas | 068 | Gas |
| 031 | Water and Sewerage | 069 | Water and Sewerage |
| 032 | Waste collection, treatment, disposal and material recovery services | 070 | Waste collection, treatment, disposal and material recovery services |
| 033 | Construction of buildings and civil engineering | 071 | Building construction |
| | | 072 | Other construction |
| 034 | Specialised construction activities | 073 | Specialised Construction Services |
| 035 | Wholesale trade | 074 | Wholesale trade |
| 036 | Retail trade | 075 | Retail trade |
| 037 | Land transport and supporting services | 076 | Passenger land transport |
| | | 077 | Freight transport by land |
| | | 081 | Supporting services to land transport |
| 038 | Water transport and supporting services | 078 | Water transport |
| | | 082 | Supporting services to water transport |
| | | 083 | Port operation services |
| 039 | Air transport and supporting services | 079 | Air transport |
| | | 084 | Supporting services to air transport |
| 040 | Warehousing and other supporting services | 080 | Warehousing and Storage |
| | | 085 | Cargo handling and other support services |
| 041 | Postal and courier | 086 | Postal and courier activities |
| 042 | Accommodation | 087 | Accommodation services |
| 043 | Food and beverage services | 088 | Food and beverage services |
| 044 | Publishing | 089 | Publishing |
| 045 | Media Entertainment | 090 | Media Entertainment |
| 046 | Telecommunications | 091 | Communications |
| 047 | Computer programming, consultancy and Information services | 092 | Computer programming, consultancy and Information services |
| 048 | Banking and finance | 093 | Banking and finance |

| Annual Input-Output Code | | 2010 Benchmark Input-Output Code | |
|--------------------------|--|----------------------------------|---|
| 049 | Insurance, reinsurance and pension funds | 094 | Life insurance |
| | | 095 | Non-life insurance and pension funds |
| 050 | Fund management activities | 096 | Fund management activities |
| 051 | Other auxiliary financial and insurance services | 097 | Other auxiliary financial and insurance services |
| 052 | Real estate | 098 | Real estate |
| 053 | Ownership of Dwelling | 099 | Ownership of Dwelling |
| 054 | Legal services | 100 | Legal services |
| 055 | Accounting, tax consultancy and auditing services | 101 | Accounting, tax consultancy and auditing services |
| 056 | Business representative offices and HQ | 102 | Business representative offices and HQ |
| 057 | Management consultancy, advertising and market research | 103 | Management consultants |
| | | 106 | Advertising |
| 058 | Architectural and engineering services | 104 | Architectural and engineering services |
| 059 | Research and development | 105 | Research and development |
| 060 | Other Professional, Scientific and technical services | 107 | Industrial design services |
| | | 108 | Other Professional, Scientific and technical services |
| 061 | Rental and leasing | 109 | Rental and leasing activities |
| 062 | Employment and labour contracting | 110 | Employment and labour contracting |
| 063 | Other administrative and business support services | 111 | Travel agencies, Tour operators and reservation services activities |
| | | 112 | Security services |
| | | 113 | Waste management, remediation and Sanitation Services |
| | | 114 | Exhibitions, conventions and events |
| | | 115 | Office, admin and support activities |
| 064 | Producers of government services | 116 | Producers of government services |
| 065 | Education | 117 | Education |
| 066 | Medical and health services | 118 | Medical and health services |
| 067 | Social services | 119 | Social services |
| 068 | Arts, entertainment and recreation | 120 | Museums, parks and performing arts |
| | | 121 | Recreation Activities |
| | | 122 | Sports Activities |
| 069 | Member organisations | 123 | Religious, clans and other membership organisations |
| 070 | Repair of computers, personal and household goods and vehicles | 124 | Repairs of Computer, personal and household goods |
| | | 125 | Repairs of road transport equipment |
| 071 | Domestic and other personal services | 126 | Other personal services |
| | | 127 | Domestic services |

**APPENDIX 6: CORRESPONDENCE BETWEEN THE 11 INDUSTRIAL SECTORS
AND THE ANNUAL INPUT-OUTPUT CODES**

| Industrial Sector | Annual Input-Output Code |
|---------------------------------|--|
| 1 Manufacturing | 002 Food products 003 Beverages and tobacco products 004 Textiles, Wearing apparel, footwear and leather products 005 Wood and paper products 006 Printing and reproduction of recorded media 007 Petroleum products 008 Petrochemicals and petrochemical products 009 Chemicals and chemical products 010 Pharmaceuticals and biological products 011 Rubber and plastic products 012 Other non-metallic mineral products 013 Basic metals 014 Fabricated metal products (except machinery and equipment) 015 Semiconductors 016 Other electronic components and boards 017 Computers and peripheral equipment 018 Data storage 019 Communications equipment and consumer electronics 020 Scientific, photographic and optical products 021 Electrical industrial apparatus, batteries and accumulators 022 Electric wiring, lighting equipment and domestic appliances 023 General and special purpose machinery (except oil rigs) 024 Land transport equipment 025 Ships, boats and oil rigs 026 Aircraft and related machinery 027 Medical and dental instruments and supplies 028 Other manufacturing |
| 2 Utilities | 029 Electricity 030 Gas 031 Water and sewerage 032 Waste collection, treatment, disposal and material recovery services |
| 3 Construction | 033 Construction of buildings and civil engineering 034 Specialised construction activities |
| 4 Other Goods | 001 Agriculture and fishing |
| 5 Wholesale & Retail Trade | 035 Wholesale trade 036 Retail trade |
| 6 Transportation & Storage | 037 Land transport and supporting services 038 Water transport and supporting services 039 Air transport and supporting services 040 Warehousing and other supporting services 041 Postal and courier |
| 7 Accommodation & Food Services | 042 Accommodation 043 Food and beverage services |

| Industrial Sector | Annual Input-Output Code |
|--------------------------------|--|
| 8 Information & Communications | 044 Publishing 045 Media entertainment 046 Telecommunications 047 Computer programming, consultancy and information services |
| 9 Finance & Insurance | 048 Banking and finance 049 Insurance, reinsurance and pension funds 050 Fund management activities 051 Other auxiliary financial and insurance services |
| 10 Business Services | 052 Real estate 053 Ownership of Dwelling 054 Legal services 055 Accounting, tax consultancy and auditing services 056 Business representative offices and HQ 057 Management consultancy, advertising and market research 058 Architectural and engineering services 059 Research and development 060 Other Professional, Scientific and technical services 061 Rental and leasing 062 Employment and labour contracting 063 Other administrative and business support services |
| 11 Other Services | 064 Producers of government services 065 Education 066 Medical and health services 067 Social services 068 Arts, entertainment and recreation 069 Member organisations 070 Repair of computers, personal and household goods and vehicles 071 Domestic and other personal services |

SINGAPORE DEPARTMENT OF STATISTICS INFORMATION DISSEMINATION SERVICES

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which provides access to the latest statistical findings of DOS as well as statistics compiled by Research and Statistics Units (RSUs) in ministries and statutory boards.

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which provides a listing of the news released by DOS and RSUs.

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which presents the latest editions of DOS' publications, papers and articles.

Browse by Themes

which presents official statistics compiled by DOS and RSUs in the various ministries and statutory boards according to themes. Within each theme, relevant statistics and related press releases, publications and references are provided.

Statistical resources are available via:

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Guide to International Statistics

which provides hyperlinks to international databases and classifications, as well as websites of international bodies and other national statistical offices.

IMF Dissemination Standards Bulletin Board

which provides metadata about Singapore's key indicators in the real, fiscal, financial and external sectors, including dissemination practices and information about pre-release access of current indicators.

SingStat Express

SingStat Express is a personalised data delivery service which sends the latest press releases, notices of publication, newsletter, occasional and information papers to subscribers via email. SMS alert service is also available to local users. Subscription details are available from the *Statistics Singapore Website* (<http://www.singstat.gov.sg/express>).

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