



Singapore Standard Industrial Classification (SSIC)

Introduction

- 1) Introduction to SSIC
- 2) Structure and Principles
- 3) Concepts and Definitions
- 4) Features
- 5) Description of Sections
- 6) Applying the Principles



Introduction

What is SSIC?

- A classification of economic activities undertaken by economic units
- Adapted from ISIC Rev.4* developed by UN Statistics Division
- Modified to local context
- Incorporated comments & suggestions of ministries & statutory boards
- Latest version: SSIC 2015, released in April 2015



* *International Standard Industrial Classification of All Economic Activities Revision 4*

Introduction

Why use SSIC?

- Provides a common and consistent framework for classification of economic activities
- For data producers:
 - facilitates data-sharing/data comparability
- For data users:
 - ensures consistent and comparable data for analyses



Introduction

Main Uses of SSIC

- Statistical surveys
- Censuses of population
- Administrative databases



Structure and Principles

Structure of SSIC 2015

22 Sections (alpha letter)

82 two-digit Divisions

204 three-digit Groups

387 four-digit Classes

1,073 five-digit Items

Structure and Principles

Structure of SSIC 2015 – 22 Sections

- A Agriculture and Fishing
- B Mining and Quarrying
- C Manufacturing
- D Electricity, Gas, Steam and Air-Conditioning Supply
- E Water Supply; Sewerage, Waste Management and Remediation Activities
- F Construction
- G Wholesale and Retail Trade
- H Transportation and Storage
- I Accommodation and Food Service Activities
- J Information and Communications
- K Financial and Insurance Activities

Structure and Principles

Structure of SSIC 2015 – 22 Sections (Cont'd)

- L Real Estate Activities
- M Professional, Scientific and Technical Activities
- N Administrative and Support Service Activities
- O Public Administration and Defence
- P Education
- Q Health and Social Services
- R Arts, Entertainment and Recreation
- S Other Service Activities
- T Activities of Households as Employers of Domestic Personnel
- U Activities of Extra-Territorial Organisations and Bodies
- V Activities not Adequately Defined

Structure and Principles

Structure of SSIC 2015 – An example:

Formation of five-digit code for ‘Semiconductor Wafer Fabrication’

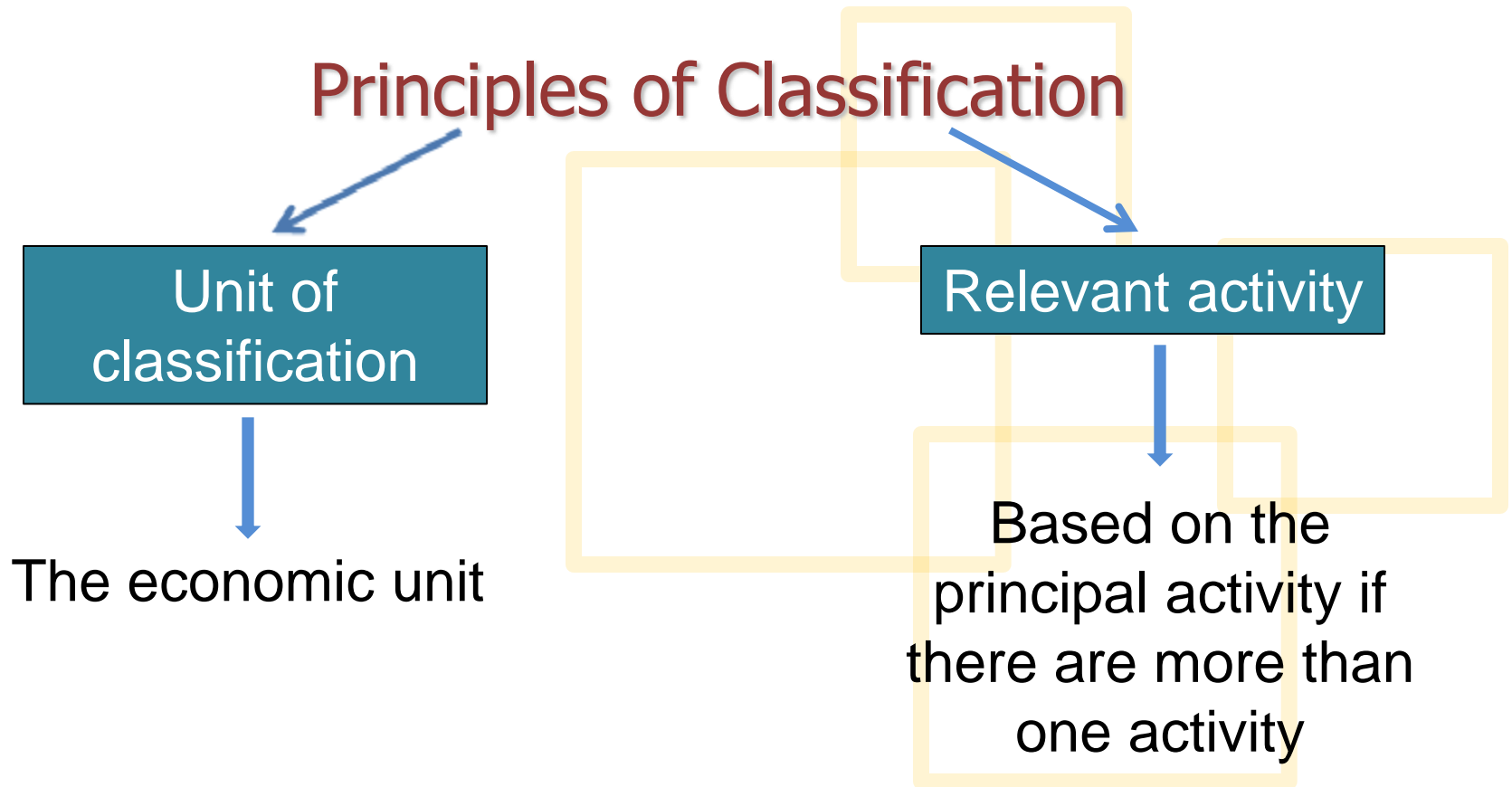
Classification	Title	Code
Section	Manufacturing	C
Division	Manufacture of Computer, Electronic and Optical Products	26
Group	Manufacture of Electronic Components and Boards	261
Class	Manufacture of Semiconductor Devices	2611
Item	Semiconductor Wafer Fabrication	26112

Structure and Principles

Significance of digit '0' and '9'

- Where a given level of classification is not divided into categories at the next more detailed level of classification
=> '0' is used in code position of next more detailed level
eg '510' (Air Transport)
- Digit '9' in 3rd, 4th or 5th digit position designates miscellaneous groups / classes / items covering activities 'not elsewhere classified' (n.e.c)

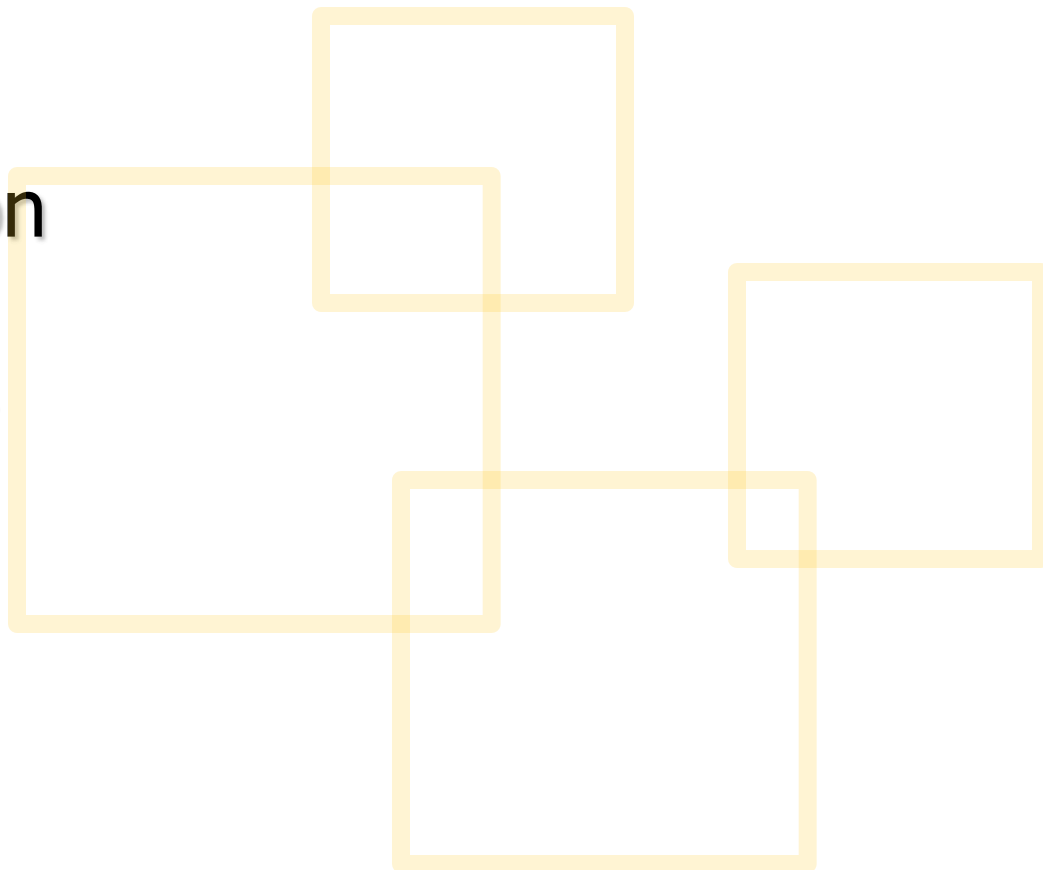
Structure and Principles



Concepts and Definitions

Unit of Classification

Defining 'Activities'



Concepts and Definitions

Unit of Classification

➤ Economic unit

- Does not take into account:
 - ✓ ownership
 - ✓ legal organisation
 - ✓ mode of operation
 - ✓ market or non-market activities
 - ✓ formal or informal sector



Concepts and Definitions

Unit of Classification

- Two types of economic units:

Establishment

Enterprise

Concepts and Definitions

Unit of Classification

➤ Establishment

- Defined as an unit which engages in one or predominantly one kind of economic activity at a single location
- Each branch or division within an enterprise is an establishment
- E.g. Supermarket (Toa Payoh Branch)



Concepts and Definitions

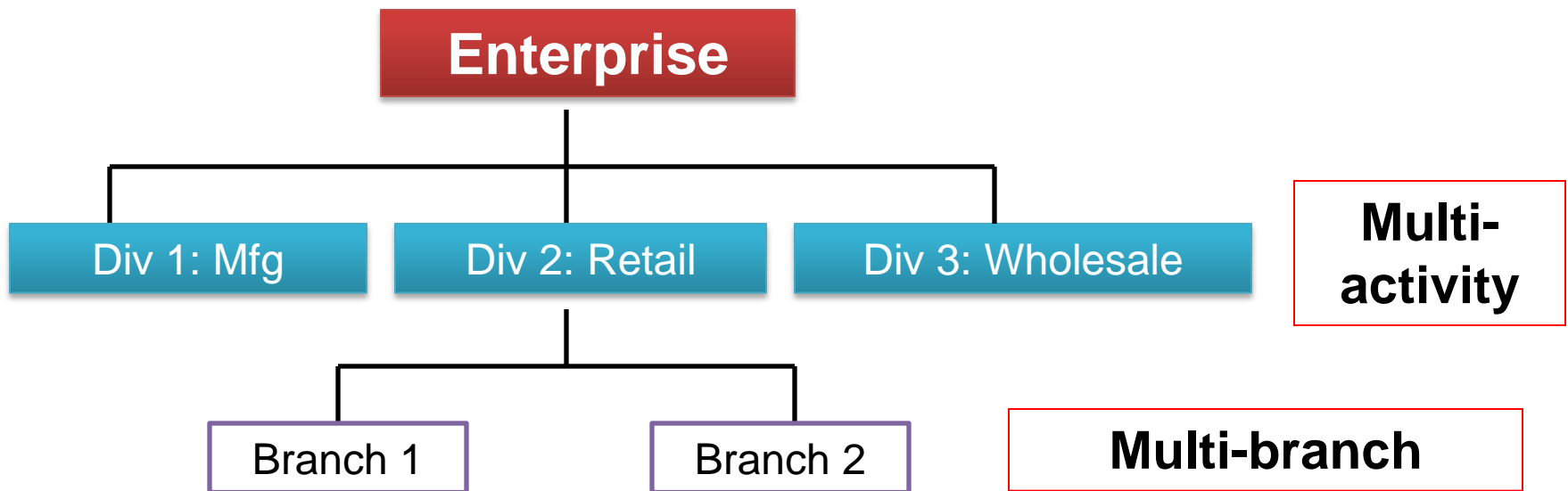
Unit of Classification

➤ Enterprise

- An institutional unit in its capacity as a producer of goods and services
- At the level where financial and balance sheet accounts are maintained
- E.g. Holding company of the supermarkets

Concepts and Definitions

Illustration: Linking the 'Establishment' & 'Enterprise'



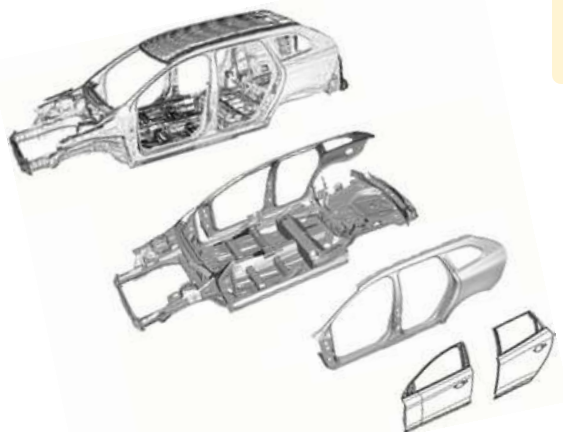
*3 divisions = 3 establishments;
2 branches = 2 establishments*

Concepts and Definitions

Defining 'Activities'

➤ Activity

- Defined as a process resulting in a homogeneous set of products (goods or services)
- May consist of one simple process (e.g. weaving), or a whole range of sub-processes (e.g. car manufacturing)



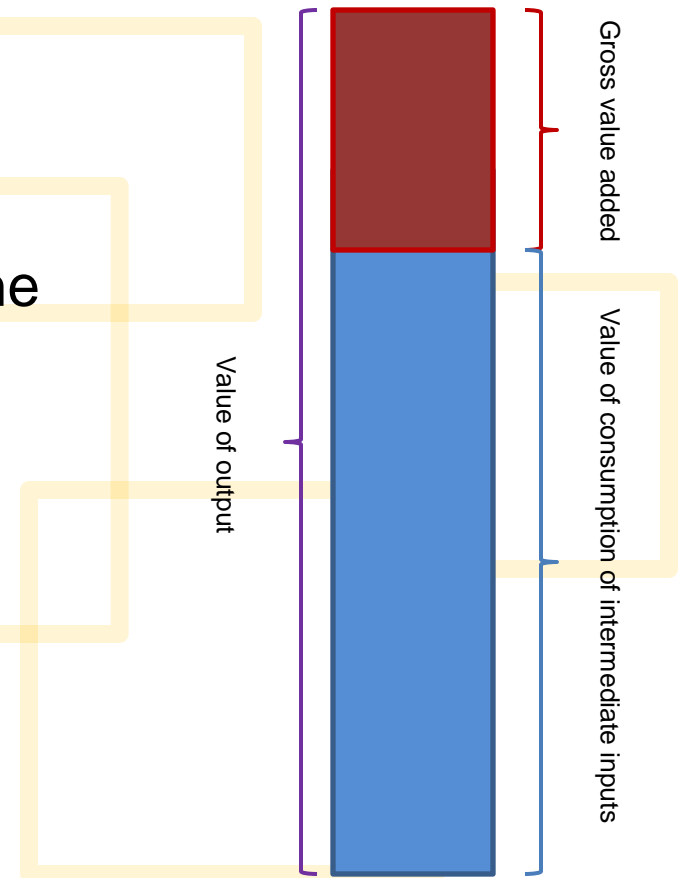
Concepts and Definitions

Defining 'Activities'

➤ Principal activity

- Activity that contributes the most to the unit in terms of:
 - value added of goods sold or services rendered; or
 - proportion of the gross output; or
 - proportion of employment

Gross value added is the value of output less the value of consumption of intermediate inputs; a measure of the contribution to GDP



Concepts and Definitions

Defining 'Activities'

➤ Secondary Activity

- Activity, in addition to the principal activity, that produces products/services for 3rd parties

➤ Ancillary Activity

- supports the main productive activities of a unit by providing non-durable goods or services entirely or primarily for the use of that unit

e.g. book-keeping, HR admin, sales promotion, purchasing

Features

Description of Classes

Alphabetical Index

Correspondence between SSIC 2015 and SSIC 2010

Features

Description of Classes (four-digit write-up)

Description of Classes: Section E

SSIC 2015

3600 **Water Collection, Treatment and Supply**

This class includes the collection, purification and distribution of water to household, industrial and commercial users, including desalination of water.

This class includes:

- collection of rain water
- purification of water for water supply purposes
- treatment of water for industrial and other purposes
- desalting of sea or ground water to produce water as the principal product of interest
- distribution of water through mains

This class excludes:

- treatment of wastewater in order to prevent pollution, see 3700
- (long-distance) transport of water via pipelines, see 4930

Features

Alphabetic Index

Alphabetical Index

SSIC 2015

A			
10101	Abattoir	82999	Administration of loyalty programme
23999	Abrasive paper manufacturing	70101	Administrative head office
74193	Accessories designing service	47711	Adults' knitted wear retailing
65124	Accident and health insurance	47711	Adults' ready-made clothing retailing
94120	Accountancy association	47711	Adults' wearing apparel retailing
28171	Accounting machine, electronic or non-electronic, manufacturing	46412	Adults' wearing apparel wholesaling
69201	Accounting service	73100	Advertising copy writer (own account)
27202	Accumulator manufacturing	32906	Advertising display manufacturing
20294	Acetylene black manufacturing	32906	Advertising poster, except lithographed, manufacturing
20111	Acetylene gas manufacturing	18129	Advertising poster, lithographed, manufacturing
25999	Acetylene lamp manufacturing	73100	Advertising service
28195	Acetylene welding and cutting machine manufacturing and repairing	69100	Advocate
		11041	Aerated water manufacturing
		49220	Aerial cableways

Features

Structure of Classification

SSIC 2015	Industry	SSIC 2010
478	RETAIL SALE VIA STALLS AND MARKETS	
4780	<u>Retail Sale via Stalls and Markets of Uncooked Food and Other Commodities</u>	
47801	Stalls (including pushcarts) selling uncooked foodstuffs	47801
47802	Stalls (including pushcarts) selling other commodities (other than uncooked food)	47802
479	RETAIL TRADE NOT IN STORES, STALLS OR MARKETS	
4791	<u>Retail Sale via Internet</u>	
47910	Retail sale via internet	47910 (part)
4799	<u>Other Retail Sale Not in Stores, Stalls or Markets</u>	
47991	Retail sale via vending machines	47990 (part)
47992	Other retail sale not in stores, stalls or markets (eg sale via door-to-door canvassing, mail order houses, TV)	47910 (part), 47990 (part)

Features

Correspondence Between SSIC 2015 and SSIC 2010 (in MS Excel)

SSIC 2015 Description	SSIC 2015	SSIC 2010	SSIC 2010 part	SSIC 2010 Description
Stalls (including pushcarts) selling uncooked foodstuffs	47801	47801		Hawkers and stall-holders dealing in uncooked foodstuffs
Stalls (including pushcarts) selling other commodities (other than uncooked food)	47802	47802		Hawkers and stall-holders dealing in other commodities (other than uncooked food)
Retail sale via internet	47910	47910	p	Retail sale via mail order houses or via internet
Retail sale via vending machines	47991	47990	p	Other retail sale not in stores, stalls or markets (eg sale via door-to-door canvassing and vending machines)

Description of Sections



Section A: Agriculture and Fishing

Section A: Agriculture and Fishing

Agriculture



Animal
Production



Forestry and
Logging



Fishing and Fish
Farms



Mixed Farming

Agricultural and Animal Husbandry
Service

Services Incidental
to Fishing



Section A: Agriculture and Fishing

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Preserving meat, manufacturing dairy products, sawmilling <i>Agricultural activities (i.e. Section A) exclude processing beyond that needed to prepare the products for primary markets.</i>	Section C: Manufacturing
E.g. Training of pet animals (i.e. not breeding of animals which should be in Section A)	Section S: Other Service Activities

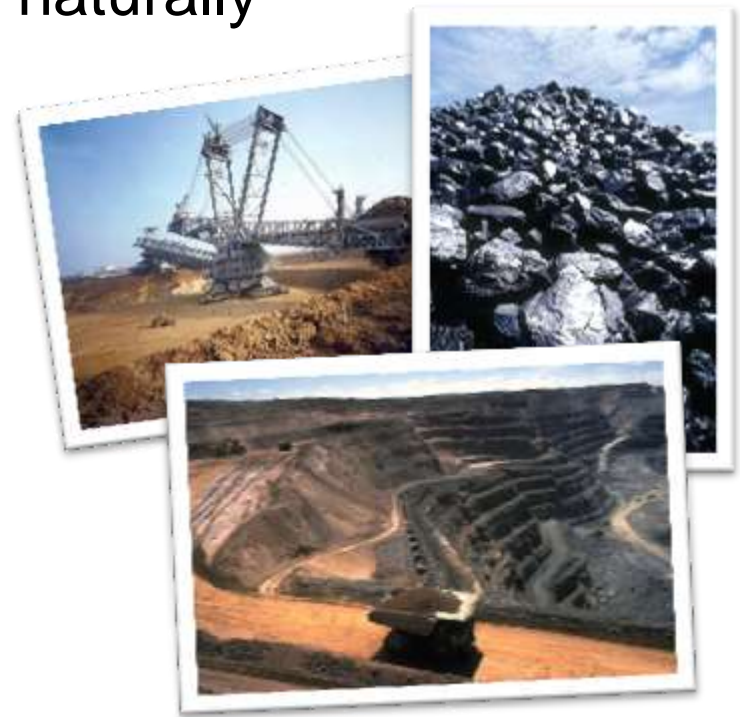


Section B: Mining and Quarrying

Section B: Mining and Quarrying

Key activities

- Extraction of minerals occurring naturally
 - e.g. Coal, petroleum, natural gas
- Supporting activities
 - Exploration activities
 - Directional drilling



Section B: Mining and Quarrying

Key Points to Note

- Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Manufacturing of refined petroleum, industrial gases <i>Processing of extracted materials are excluded from Section B.</i>	Section C: Manufacturing



Section C: Manufacturing

Section C: Manufacturing

What is Manufacturing?

Transformation of materials, substances, compounds into new products¹ (except for recycling of waste/metal/scrap).

Also includes:

- Assembly of component parts
- Industrial services e.g. electroplating, repair of industrial machinery², repair of ships, repair & servicing of aircraft, installation of machinery & equipment, printing and related services
- Substantial alteration, renovation or reconstruction of goods

1) New product can be a final product for consumption or a semi-finished product to be used as an input by other manufacturers.

2) Excludes (i) repair of computers and personal and household goods, (ii) repair of motor vehicles

Section C: Manufacturing

Key activities

- Manufacture of various products

Food products and beverages	Tobacco products	Textiles, apparels, footwear etc	Wood and products of wood and cork
Pharmaceutical and biological products	Chemical and chemical products	Paper and paper products	
Coke and refined petroleum	Rubber, plastic, non-metallic products	Basic metals and fabricated metal products	Furniture
Printing and reproduction of recorded media	Computer, electronic and optical products	Machinery and equipment	Other manufacturing (e.g. jewellery, musical instrument)



Section C: Manufacturing

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Production of gas for purpose of gas supply	Section D: Electricity, Gas, Steam and Air-conditioning Supply
E.g. Processing of waste into secondary raw materials, ship-breaking <i>Primary purpose of these activities are considered treatment or processing of waste and not classified in Section C</i>	Section E Water Supply; Sewerage, Waste Management and Remediation Activities
E.g. Publishing of books and software, which are different from printing itself	Section J: Info and Communications



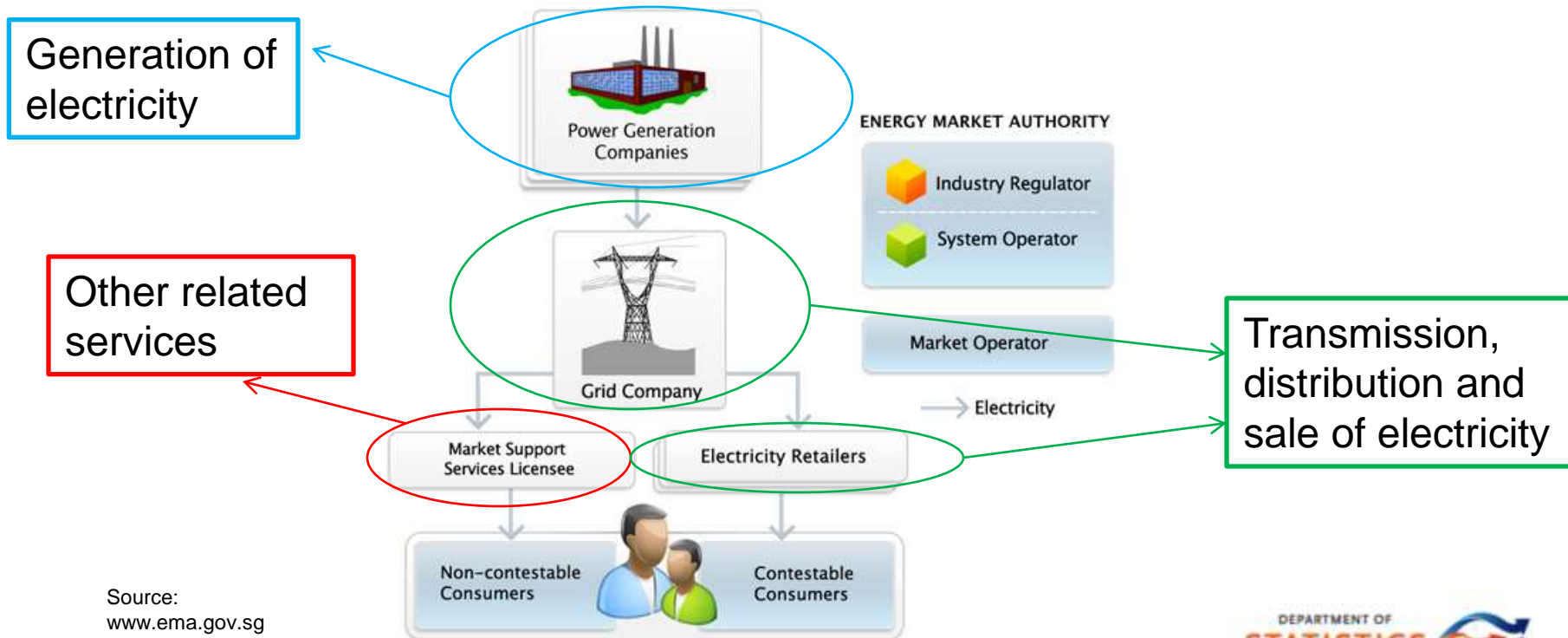
Section D: Electricity, Gas, Steam and Air-Conditioning Supply

Section D: Electricity, Gas, Steam and Air-conditioning Supply

Key activities

- Electric power generation, transmission and distribution

ELECTRICITY INDUSTRY STRUCTURE



Source:
www.ema.gov.sg

Section D: Electricity, Gas, Steam and Air-conditioning Supply

Key activities

- Manufacture of gas; distribution of gaseous fuels through mains; other related services
- Air-conditioning supply



Section D: Electricity, Gas, Steam and Air-conditioning Supply

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Produce electricity as by-product of waste incineration	Section E Water Supply; Sewerage, Waste Management and Remediation Activities
E.g. Long-distance transportation of gases by pipelines	Section H: Transportation and Storage

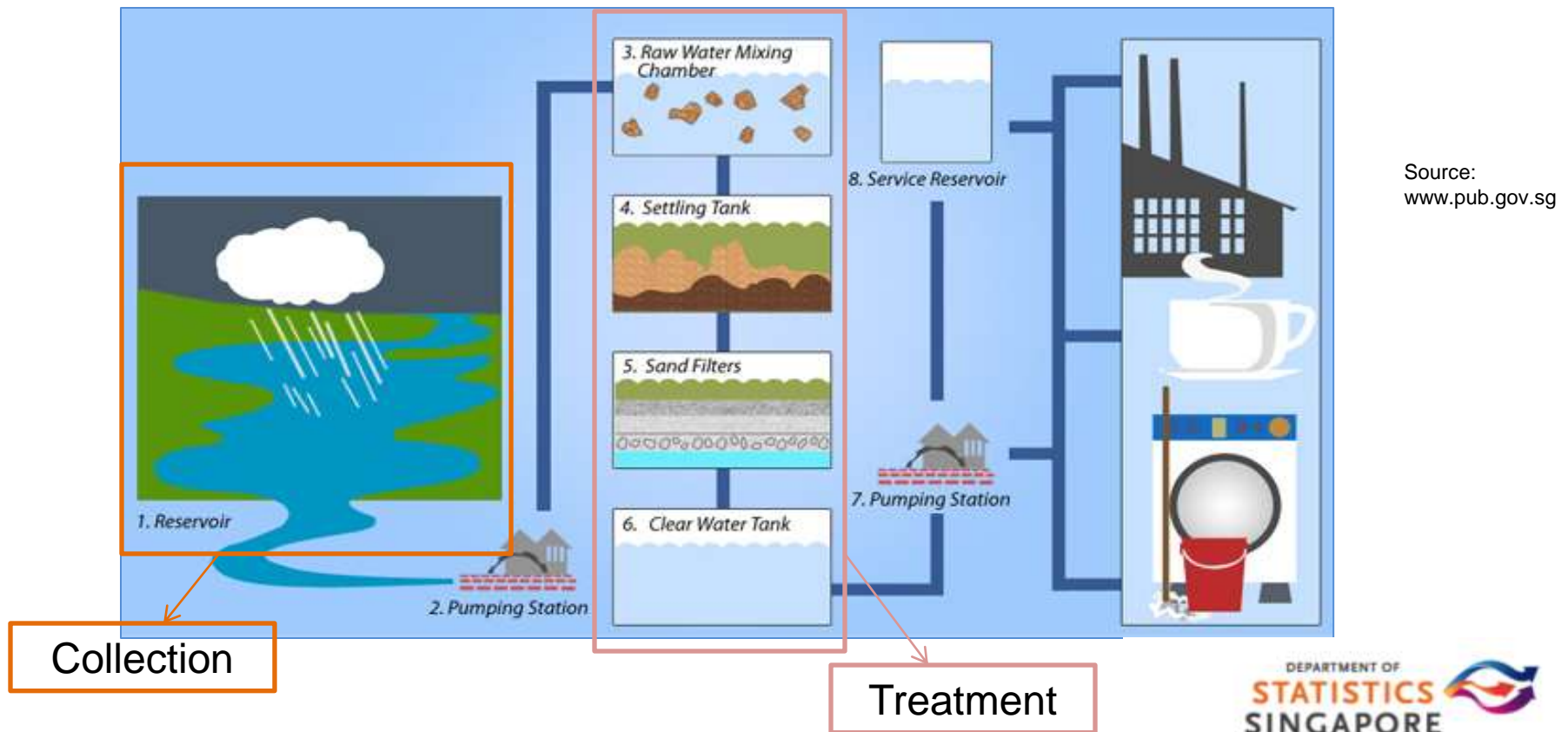
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Section E: Water Supply; Sewerage, Waste Management and Remediation Activities

Section E: Water Supply; Sewerage, Waste Management and Remediation Activities

Key activities

- Activities of water supply, including collection and treatment



Section E: Water Supply; Sewerage, Waste Management and Remediation Activities

Key activities

- Operation of sewer systems and sewer treatment facilities
- Waste collection, treatment and disposal; remediation activities
- Materials recovery, i.e. recycling



Section E: Water Supply; Sewerage, Waste Management and Remediation Activities

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Manufacture of new final product from secondary raw materials such as pulp from paper waste	Section C: Manufacturing
E.g. Dismantle computer to obtain and re-sell usable parts	Section G Wholesale and Retail Trade



Section F: Construction

Section F: Construction

Key activities

Construction of Building

- General contractors
- Structural repair contractors

Civil Engineering (mainly non-building construction)

- General contractors
- Construction of roads and railways, utilities project, etc

Specialised Construction Activities

- Usually without responsibility for entire project
- Demolition and site preparation, electrical installation, etc
- Building completion and finishing



Section F: Construction

Key Points to Note

- Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Architectural and engineering activities, interior design services	Section M: Professional, Scientific and Technical Activities
E.g. Renting of construction of equipment, general cleaning of buildings	Section N: Administrative and Support Service Activities

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Section G: Wholesale and Retail Trade

Section G: Wholesale and Retail Trade



Wholesale Trade

- Sale of goods purchased from importers to other wholesalers or institutions, retailers



Retail Trade

- Sale of goods to the general public for personal and household consumption or utilisation

Section G: Wholesale and Retail Trade



Note: Stall-holders selling cooked food for immediate consumption are classified in Section I 'Accommodation and Food Service Activities'

Section G: Wholesale and Retail Trade

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Dealing in commodity contracts, insurance agents <i>Not all commission agents are classified in Section G.</i>	Section K: Financial and Insurance Activities
E.g. Packaging activities	Section N: Administrative and Support Service Activities



Section H: Transportation and Storage

Section H: Transportation and Storage

Key activities



Land Transport

- Passenger, freight
- Include transport via pipelines



Water Transport

- Passenger, freight



Air Transport

- Passenger, freight



Postal and Courier Activities

Support Activities for Transportation

- Land, water, air
- Cargo handling, marine surveying, freight forwarding

Warehousing and Storage

Section H: Transportation and Storage

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Inspection and examination of fuel for marine vessels <i>This is different from marine surveying which includes inspection and examination of marine vessels</i>	Section M: Professional, Scientific and Technical Activities
E.g. Ambulance transport of patients in whichever mode	Section Q: Health and Social Services

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Section I: Accommodation and Food Service Activities

Section I: Accommodation and Food Service Activities

Accommodation

Note: Provision of long-term accommodation as primary residences is classified in Section L 'Real Estate Activities'.

Short Term Accommodation

Hotels

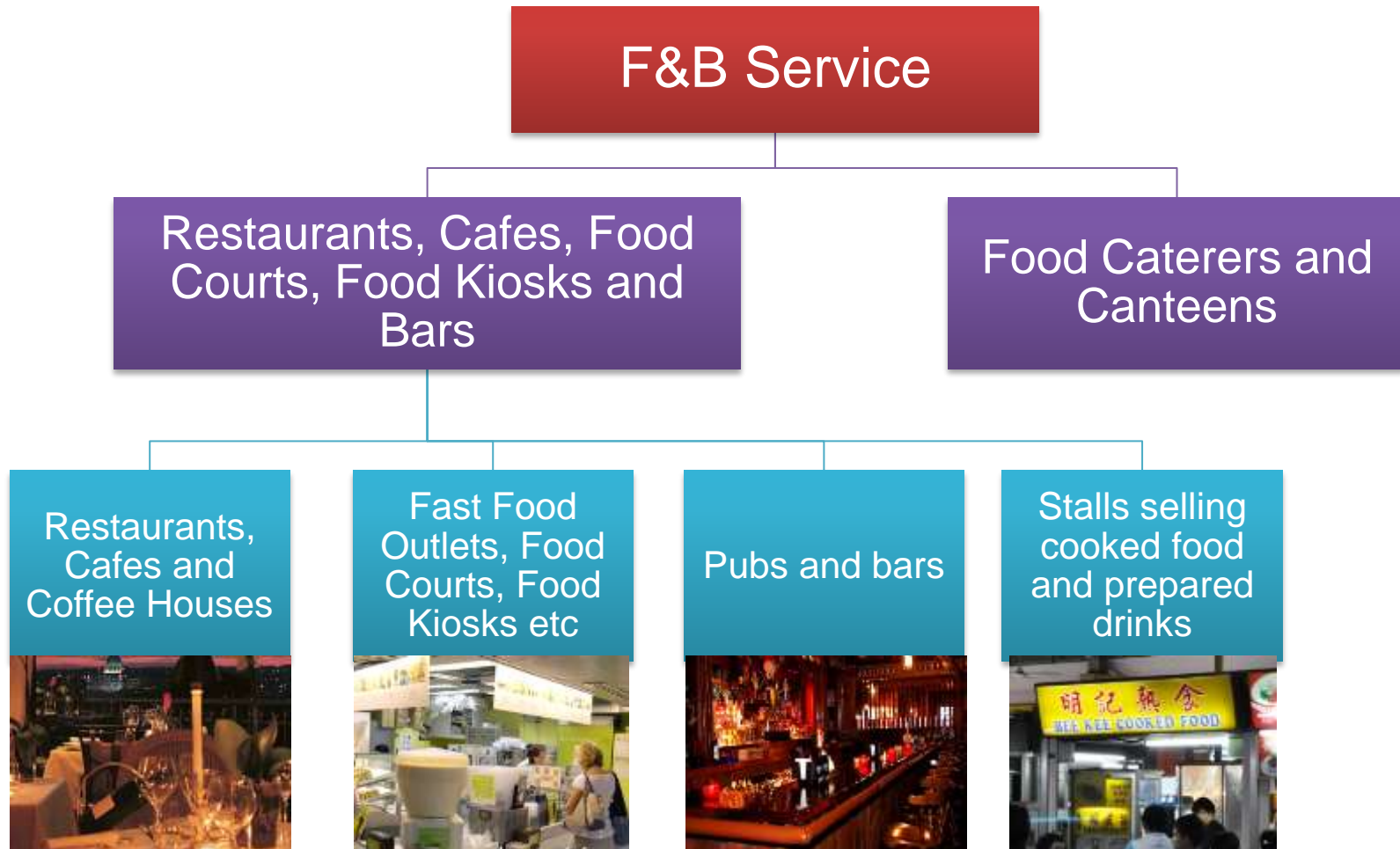
Chalets and other short term accommodation e.g. *backpackers' hostels, guesthouses etc*

Other Accommodation (except residential):

e.g. school dormitories, worker hostels



Section I: Accommodation and Food Service Activities



Note: Provision of food & beverages not intended for immediate consumption is classified in Section G 'Wholesale and Retail Trade'.

Section I: Accommodation and Food Service Activities

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Letting and operating of food courts with mainly rental income	Section L: Real Estate Activities
E.g. Karaoke lounges and pubs mainly providing entertainment	Section R: Arts, Entertainment and Recreation



Section J: Information and Communications

Section J: Information and Communications

Key activities

Publishing Activities



Motion Picture , Video, Sound Recording & Music Publishing; TV and Radio Programming; Telecommunications



IT and related Services



Information Service Activities



***Note:** *Reproduction of recorded media and printing activities are classified in Section C 'Manufacturing'.*

Section J: Information and Communications

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Renting of CDs and DVDs, activities of call centres	Section N: Administrative and Support Service Activities
E.g. Libraries, activities of own account actor/actresses	Section R: Arts, Entertainment and Recreation



Section K: Financial and Insurance Activities

Section K: Financial and Insurance Activities

Key activities

Monetary Intermediation ➤ Banks	Activities of Holding Companies ➤ Bank/Financial or other holding companies	Provident and Pension Funding
Financial Trusts, Funds and Similar Entities ➤ Collective portfolio investment funds ➤ Non-philanthropic trusts, funds	Insurance and Reinsurance Underwriting: ➤ Life and general insurance/reinsurance	
Other Financial Service Activities (not conducted by monetary institutions) e.g. Financial leasing, money-lending, money-changing services, etc		
Activities Auxiliary to Financial Service and Insurance Activities e.g. Fund management, stock, security and commodity contracts brokerage; Risk & damage evaluation		



Section K: Financial and Insurance Activities

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Collective portfolio investment funds with mainly rental income, real estate appraisal/ valuation	Section L: Real Estate Activities
E.g. Activities of head offices <i>Holding companies does not undertake management activities and hence classified in Section K.</i>	Section M: Professional, Scientific and Technical Activities
E.g. Philanthropic trusts and foundations	Section S: Other Service Activities



Section L: Real Estate Activities

Section L: Real Estate Activities

Key activities

Real Estate Activities with Own or Leased Property	Real Estate Activities on a Fee or Contract Basis
<ul style="list-style-type: none">• Buying, selling, renting and operating of real estate• Collective portfolio investment funds with mainly rental income• Letting and operation of food courts• Operation of serviced apartments	<ul style="list-style-type: none">• Real estate agencies• Real estate management activities 

***Note:** Operation of hotels, operation of food court with income mainly from sale of F&B is classified in Section I 'Accommodation and Food Service Activities'.

Section L: Real Estate Activities

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Collective portfolio investment funds with mainly dividend income, investment holding companies holding real estate properties	Section K: Financial and Insurance Activities
E.g. Maintenance of swimming pools and spas <i>Considered as cleaning activities.</i>	Section N: Administrative and Support Service Activities

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Section M: Professional, Scientific and Technical Activities

Section M: Professional, Scientific and Technical Activities

Requires a high degree of training and making specialised knowledge and skills available to users.

Key activities

**Legal,
Accounting
and
Management**



**Architecture
and
Engineering**



Scientific R&D



**Advertising
and Market
Research**



**Veterinary
Activities and
Others**



- Business and Mgmt Consultancy, Accountancy & Auditing Services

- Architectural services, engineering design & consultancy, technical testing

- Natural science & engineering, social science, humanities

- Advertising, Infocomm market research, public opinion polling

- Interior design, fashion design, photography, translation, veterinary activities etc

Section M: Professional, Scientific and Technical Activities

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Marine surveying, representative office of foreign shipping lines	Section H: Transportation and Storage
E.g. Investment holding company	Section K: Financial and Insurance Activities
E.g. Attorney-General 's Chambers (AGC) <i>AGC as a public prosecutor, falls under administration and operation of administrative and civil and criminal courts.</i>	Section O: Public Administration and Defence





Section N: Administrative and Support Service Activities

Section N: Administrative and Support Service Activities

Key activities

Rental and
leasing

Employment
activities

Travel
agencies,
tour operators

Security and
investigation

Cleaning and
landscape
maintenance

Office admin
and biz
support

Call centres

Event
organisers



Section N: Administrative and Support Service Activities

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Installation of burglar and fire alarm system, without monitoring	Section C: Construction
E.g. Packaging activities incidental to transport	Section H: Transportation and Storage
E.g. Producing, reproducing and distributing copyrighted works (i.e. publishing)	Section J: Information and Communications
E.g. Public order and safety activities such as administration and operation of auxiliary police force supported by public authorities	Section O: Public Administration and Defence

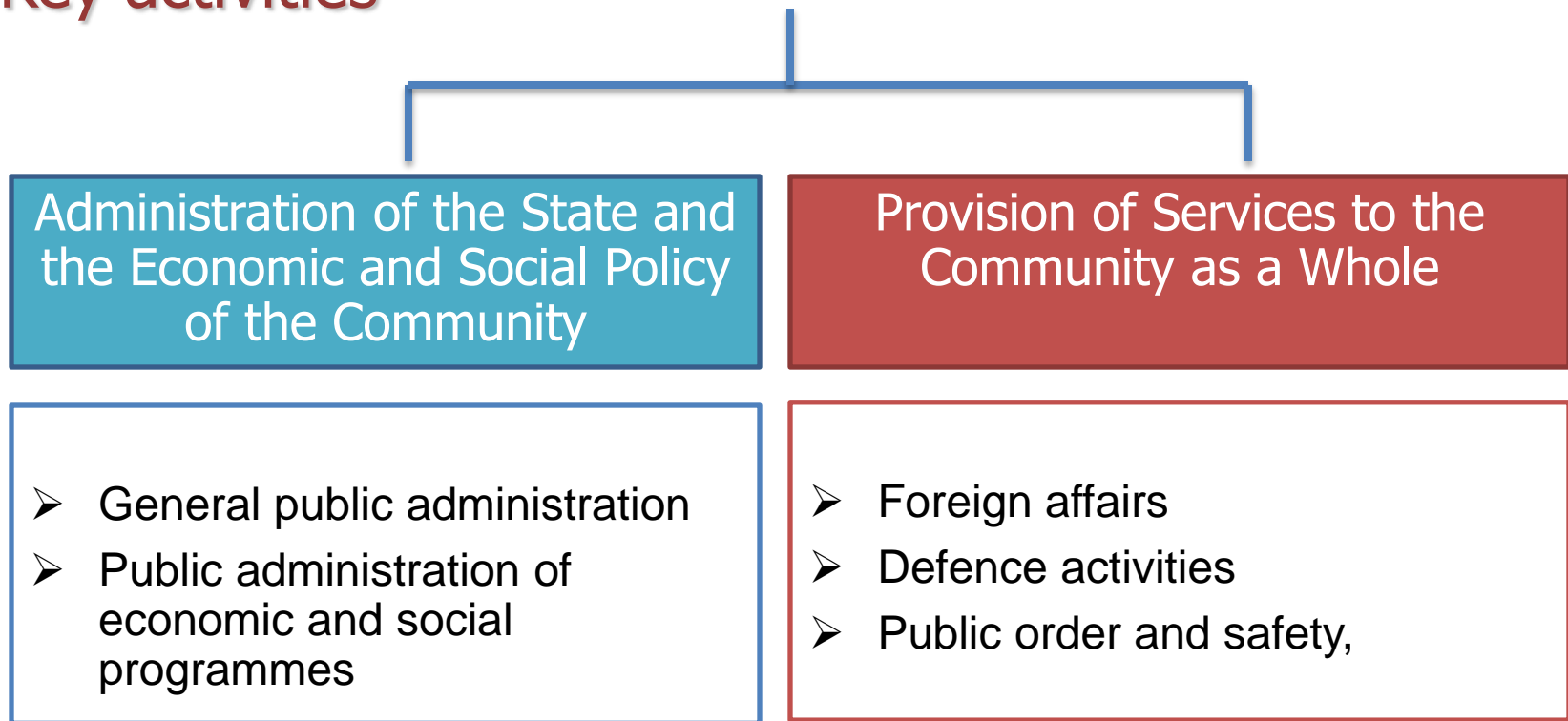




Section O: Public Administration and Defence

Section O: Public Administration and Defence

Key activities



***Note:**

- Not all government agencies/statutory boards etc are classified in this section;*
- Being a government or related entity is not a requirement for entities to be classified in Section O.*

Section O: Public Administration and Defence

Key Points to Note

➤ Activities that are classified in other Sections

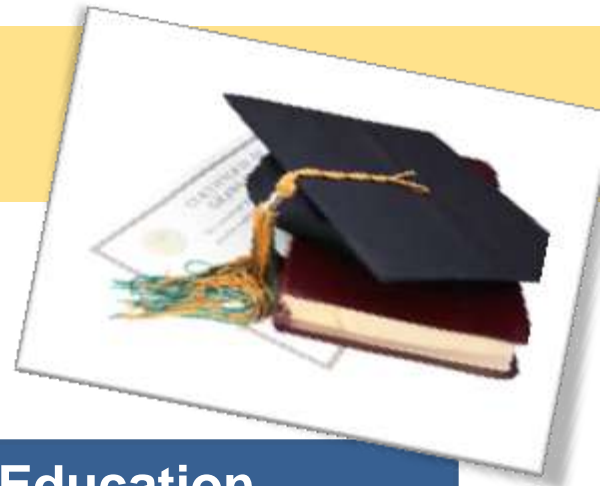
Examples/ Remarks	Section
E.g. Operation of government owned or occupied building (HDB, Town Councils)	Section L: Real Estate Activities
E.g. Schools under MOE	Section P: Education
E.g. Restructured hospitals	Section Q: Health and Social Services
E.g. Public libraries	Section R: Arts, Entertainment and Recreation

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Section P: Education

Section P: Education

Key activities



Academic Education

- Various level of education (e.g. pre-primary to tertiary)

Other Education

- Tutoring services
- Non-academic instruction (e.g. sports, cultural)
- Driving instruction

Education Support Services (typically non-instructional)

- Student recruitment services
- Examination and accreditation agencies
- Tuition matching services

Section P: Education

Key Points to Note

- Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Household that employs tutor directly, i.e. household pays the tutor	Section T: Activities of Households as Employers of Domestic Personnel

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Section Q: Health and Social Services

Section Q: Health and Social Services

Key activities

Health Services

- Hospital activities
- Medical and dental practices
- Other health services (e.g. medical and X-ray labs)



Social Services

- With accommodation (i.e. residential care services like home for the aged, orphanages etc)
- Without accommodation
 - For children, youth and families eg childcare, student care
 - Community activities
 - Charitable and other supporting activities aimed at humanitarian work



Section Q: Health and Social Services

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Transfer of patients without lifesaving equipment or medical personnel	Section H: Transportation and Storage
E.g. Veterinary activities, laboratory testing and inspection of products	Section M: Professional, Scientific and Technical Activities



Section R: Arts, Entertainment and Recreation

Section R: Arts, Entertainment and Recreation

Key activities



Creative, Arts & Entertainment

e.g. Production of live presentations, theatre, concert halls

Cultural

e.g. Museums, libraries

Gambling and Betting

e.g. Betting centres, casinos

Sports, Amusement and Recreation

e.g. Sports facilities, theme parks

Section R: Arts, Entertainment and Recreation

Key Points to Note

➤ Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Pubs with main income from sale of food and beverages	Section I: Accommodation and Food Service Activities
E.g. Operation of cinemas (considered motion picture projection activities), provision of web hosting service for virtual gambling activities	Section J: Information and Communications

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Section S: Other Service Activities

Section S: Other Service Activities

Key activities

Activities of Membership Organisations

- Businesses, employers and professionals
- Trade unions
- Religious organisations

Repair of Computer, Personal and Household Goods, Motor Vehicles

- Mobile phones
- Computers and peripheral equipment
- Consumer electronics, furniture
- Motor vehicles

Other Personal Service Activities

- Washing and cleaning of textiles
- Hairdressing, beauty treatment
- Funeral and wedding related activities

***Note:** Only repair of consumer goods is classified in Section S. Repair of capital goods and machineries are classified in Section C “Manufacturing”.

Section S: Other Service Activities

Key Points to Note

- Activities that are classified in other Sections

Examples/ Remarks	Section
E.g. Repair of hand held power tools and recreational guns <i>In general, only repair of consumer goods is classified in Section S</i>	Section C: Manufacturing
E.g. Sports club, professional artistic groups	Section R: Arts, Entertainment and Recreation



Section T: Activities of Households as Employers of Domestic Personnel

Section T: Activities of Households as Employers of Domestic Personnel

Key activities

Distinguishing characteristics

- Domestic personnel hired directly by household (i.e. an individual)
- Providing product or service consumed by employing household
- Common activities
 - Domestic helpers, babysitters and chauffeurs



Exclusion

- Services provided by employee of independent service provider
- Employee assigned to serve particular household or households
- Employee compensated by service provider, not by the household

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Section U: Activities of Extra-Territorial Organisations and Bodies

Section U: Activities of Extra-Territorial Organisations and Bodies

Key activities

Distinguishing characteristics

- Foreign and international organisations not under Singapore's jurisdiction
 - Foreign embassies and trade representative offices
 - Foreign armed forces
 - International organisations like the World Bank, IMF, OECD and EU



Application of Principles

Applying the Principles

Key Areas:

1. Vertical integration
2. Outsourcing
3. Firms not yet in operation
4. Retail trade of self-produced goods
5. Goods & services through electronic means
6. Repair and maintenance

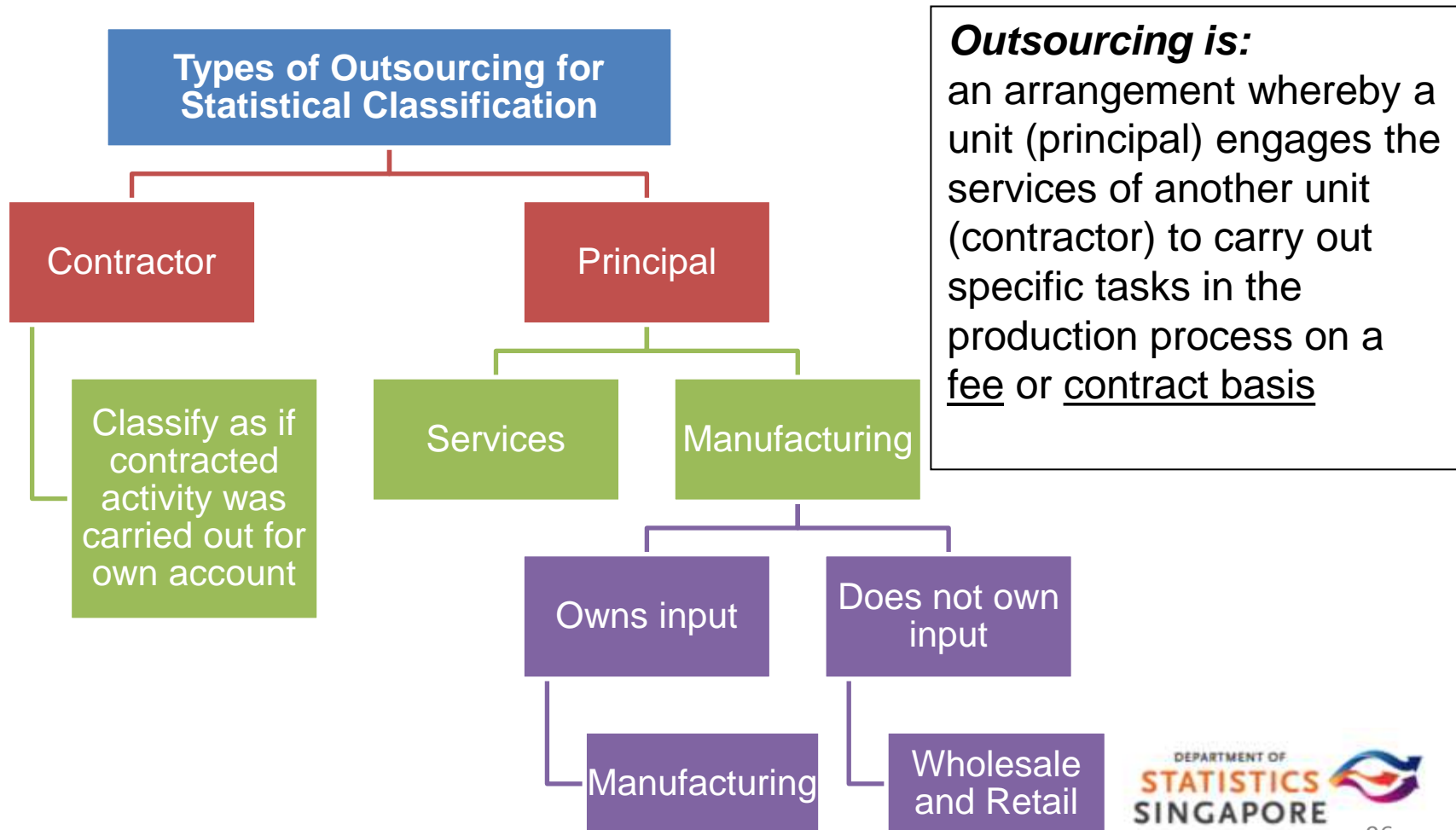
Applying the Principles

1. Treatment for Vertical Integration

- Activities of an economic unit extend over a number of stages during the production process
- Treated like any other form of multiple activities, i.e. unit to be classified based on principal activity
 - If data on individual activities are not available, to refer to comparable units to help determine principal activity
 - If principal activity still cannot be determined, the unit will be classified based on final activity

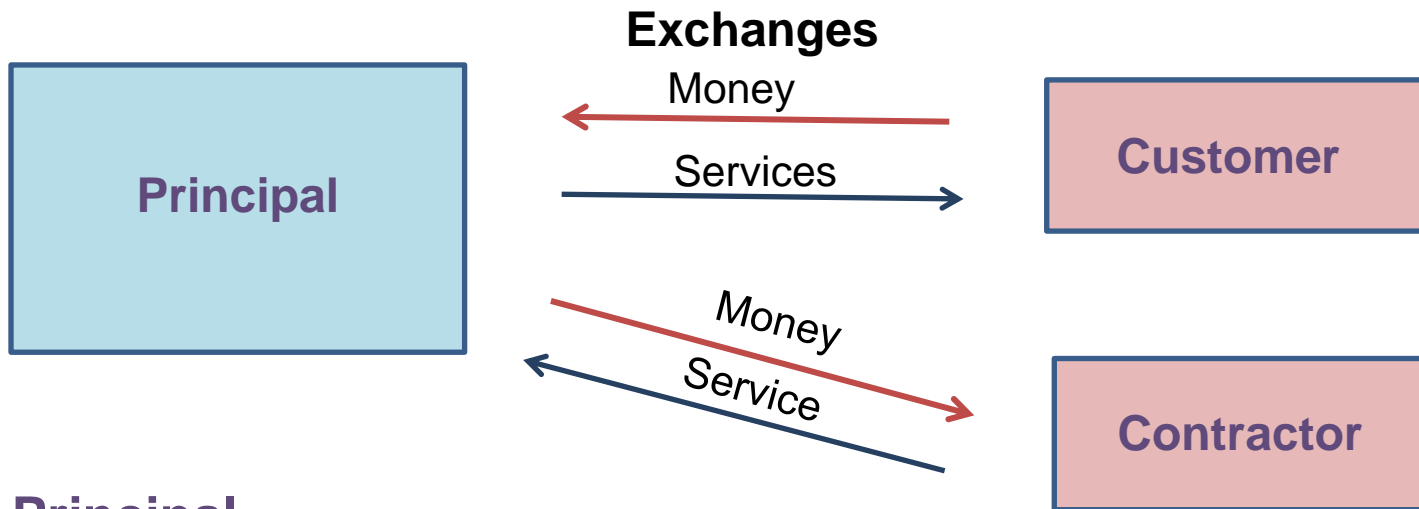
Applying the Principles

2. Treatment for Outsourcing – Types of Outsourcing



Applying the Principles

Treatment for Services



➤ **Principal**

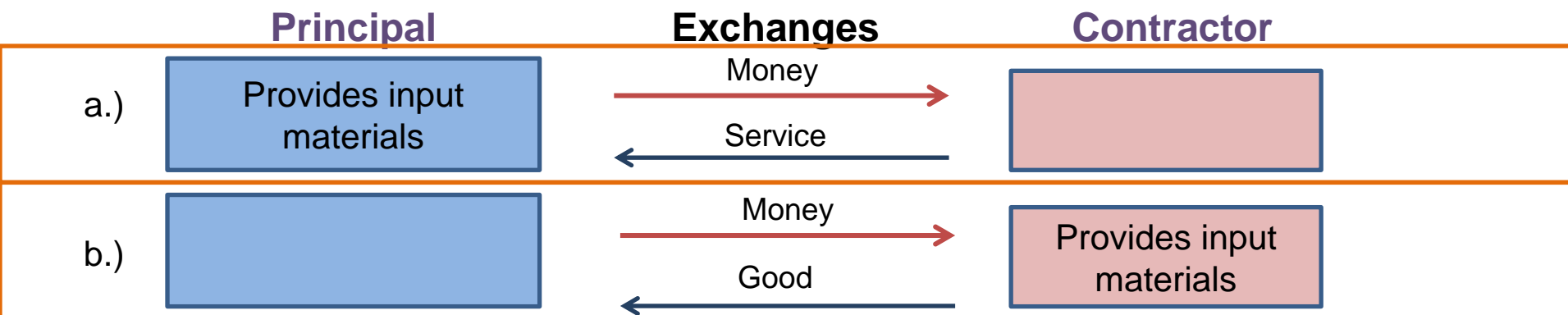
- Classify as if they produce the services completely by themselves

➤ **Contractor**

- Classify with units that produce for their own account

Applying the Principles

Treatment for Manufacturing



➤ Principal

- Classify as if they produce the goods and services completely by themselves (if it owns the input materials)
- Classify under 'Wholesale and Retail Section' based on type of trade (retail or wholesale) and type of goods (if it does not own the inputs)

➤ Contractor

- Classify with units that produce for their own account

Applying the Principles

3. Treatment for Firms not yet in Operation

- Construction stage (e.g. for hotels, hospitals, theme parks)
 - Principal activity of the firms should be the intended activity even though it has not commenced operations
- For big firms with separate establishments to undertake preparatory work
 - Establishment to be classified under appropriate preparatory work

Applying the Principles

4. Treatment for Retail of Self-Produced Goods

➤ Retail sale of self-produced goods

- Should not be considered as a separate activity
- If an establishment produces its own goods and sells them via retail trade, it is to be classified as 'manufacturing' rather than retail

➤ Retail sale of self-produced goods vs retail sale of purchased goods

- Classify based on principal activity

Applying the Principles

5. Treatment for Provision of Goods & Services through Electronic Means

- Mode of operation is not considered in classification
 - Classify units which produce the same goods and services in the same category i.e. based on principal activity
- Exception
 - Retail Sale via the Internet (Section G, 4791)



Applying the Principles

6. Treatment for Repair and Maintenance Activities

➤ Repair of capital goods

- Classify with units which manufacture the same goods, i.e. in Section C 'Manufacturing'

➤ Repair of consumer goods is classified in Section S 'Other Services Activities'

- 951 'Repair of computers and communications equipment'
- 952 'Repair of personal and household goods'
- 953 'Repair and maintenance (including inspection) of vehicles'