



**Asia-Pacific
Economic Cooperation**

Advancing
Free Trade for Asia-Pacific
Prosperity

Services in Global Value Chains: Manufacturing-Related Services

5 Nov 2015 – ADBI-ESCAP Workshop

APEC Policy Support Unit

Background information



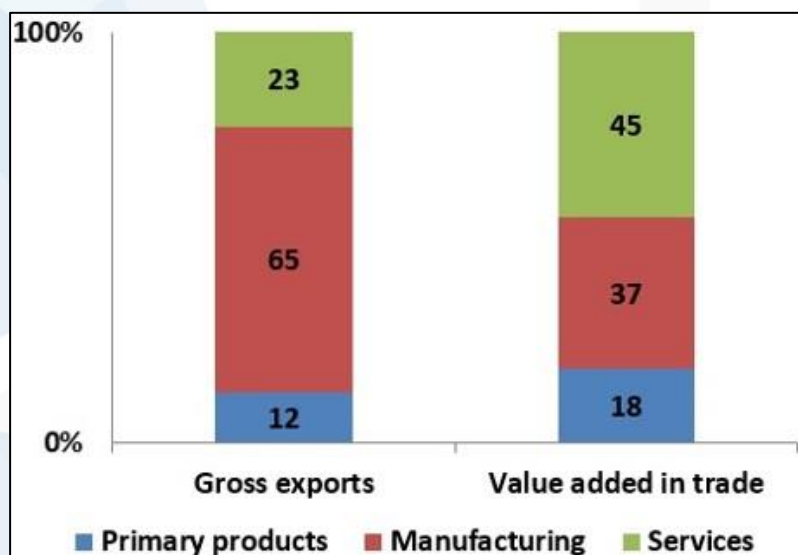
- An APEC Next Generation Trade and Investment (NGETI) project.
- To understand the **importance of services in global trade** using a **case-study approach** (22 studies were compiled in total).
- Presentation to focus on:
 1. Understanding **manufacturing-related services** from the lens of various case studies.
 2. **Implications of policies** on configuration, operation and location of value chains **with emphasis on contribution of services**.

'Servicification'



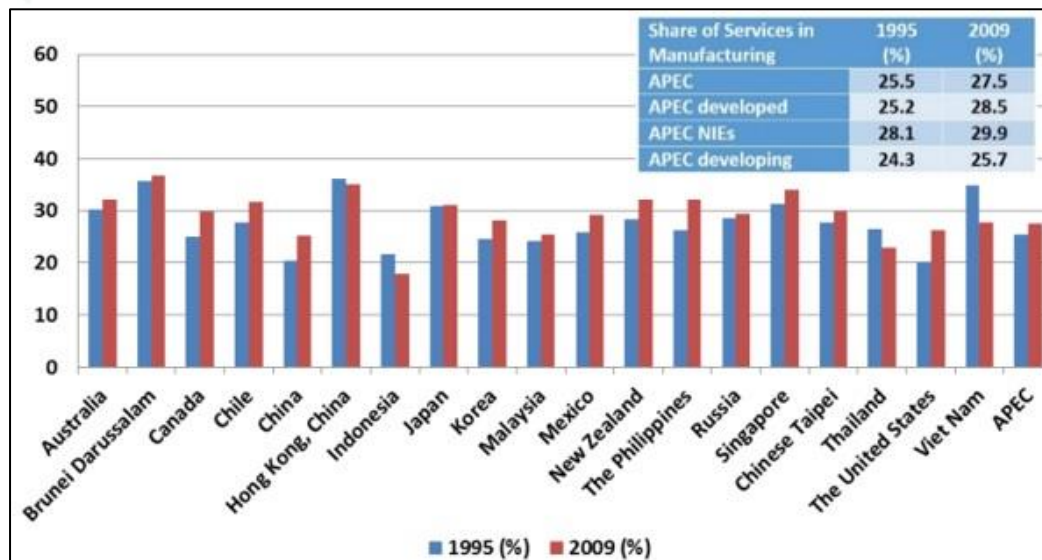
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Sector composition of global gross exports and value added trade, 2008



Source: OECD-WTO Trade in Value Added (TiVA) database

Share of services value added in manufacturing exports (1995 and 2009)



Source: APEC Policy Support Unit computation based on OECD-WTO Trade in Value Added (TiVA) database

Case study approach



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Advantages

Allow for fine level of detail considering:

- 1. intangibility of services**
- 2. consequent challenges with services data**

Complement firm surveys and secondary data sources

Provides insights on where to delve further

Disadvantages

Results are not readily generalized or extrapolated, particularly for small number of samples.

List of Case Studies



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<i>Sector</i>	<i>Economy where firm is located</i>
Aircraft control systems	Philippines
Automotive components	Japan
Brake hose end fittings	Mexico
Car antenna	Mexico
Car assembly	Philippines
Chassis parts	Mexico
Computer servers	Chinese Taipei
Construction machinery	United States
Consumer electronic appliances	Indonesia
Industrial welding	Thailand
Mining and construction equipment	Japan
Oil and gas equipment	Singapore
Power generation equipment	Japan
Precision die and machine parts	Thailand
Printed circuit boards	Canada
Refrigerators	Japan
Telecommunications equipment	China
Wastewater treatment	Thailand
Watch	Hong Kong, China
Wine	Chile
Fresh cherry	Chile
Integrated logistics	Mexico

Source: APEC Policy Support Unit compilations.

Case study approach

22 firms

**14 from Asian economies, 8 from North American and Chilean economies
9 MNCs, 10 medium-to-large, 1 SME, 2 non-manufacturing**

A

Define the parameters of the value chain:

- 1) Identification of product**
- 2) Determining the start and end-point of the chain**

B

Mapping services inputs:

- 1) Identification of services (UN Central Product Classification as guide)**
- 2) Separation of services into 6 stages (establishment; pre-manufacture; manufacture; post-manufacture; post-sales; back office)**

C

Additional information (if possible):

- | | |
|---|------------------------------|
| 1) In-house or outsourced services | 3) Share of employees |
| 2) Bundling | 4) Cost or price data |

Sample case study: Aircraft control systems (A)



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- **Designer and manufacturer of high performance precision motion control products and systems.**
- **Headquartered in United States** but has its **largest manufacturing site for aircraft controls in Philippines.**
- A **servo actuator** – a device that transforms an input signal (usually electrical) into motion.
- Comes in **various sizes** and the largest one can weigh **up to 200 pounds.**

Servo actuator and its locations in B787



Primary Flight Control System

- 1) Aileron servo actuator
- 2) Flaperon actuator and control module
- 3) Inboard spoiler servo actuator
- 4) Outboard spoiler servo actuator
- 5) Electromechanical spoiler actuator and motor control unit
- 6) Horizontal stabilizer trim actuator and motor control unit
- 7) Elevator servo actuator
- 8) Rudder servo actuator

A primary flight control actuator



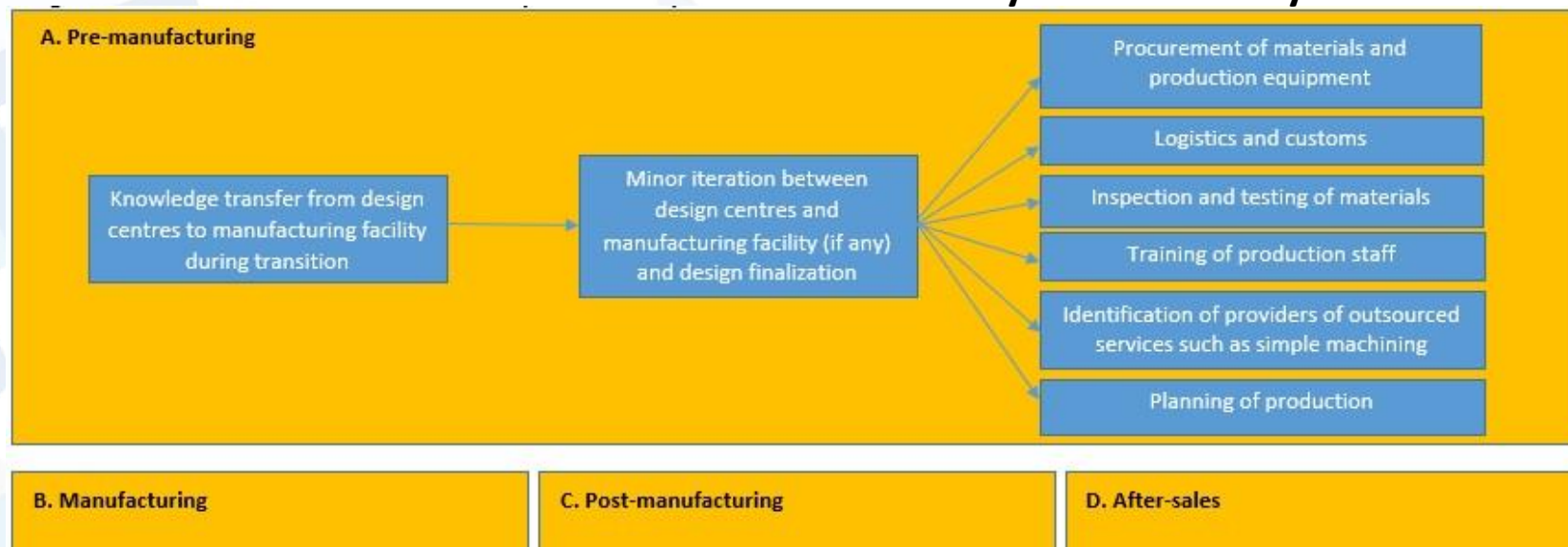
Source: Courtesy of the firm

Sample case study: Aircraft control systems (A)



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Dimension of the value chain covered by the case study



预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_3904

