



**Asia-Pacific
Economic Cooperation**

2014/SOM2/CTI/DIA3/014

Services and GVCs


Submitted by: ICTSD



**Public-Private Dialogue on Building
Asia Pacific Partnership Through Global
Value Chains Collaboration
Qingdao, China
12 May 2014**



Services Network



International Centre for Trade and Sustainable Development

APEC Public Private Dialogue on building Asia Pacific partnership through Global Value Chains Collaboration

Qingdao, 12 May 2014
Dr. Sherry Stephenson
PECC Services Expert;
ICTSD Senior Fellow
sstephenson@ictsd.ch



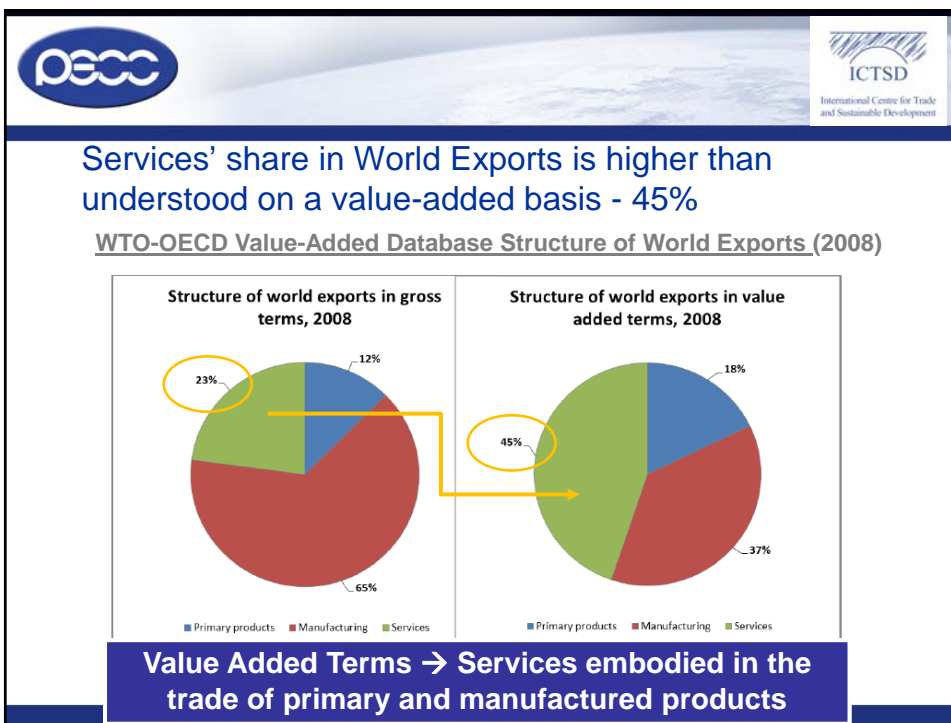
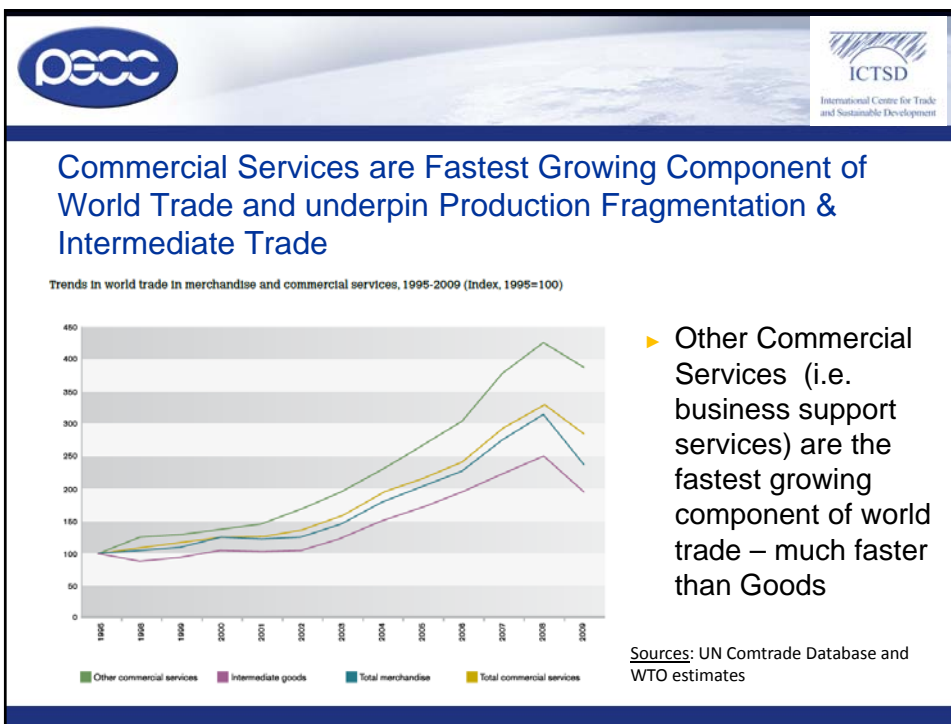
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New Structure of World Trade

The new structure of World Trade :

- ▶ **Moving toward more trade in intermediates than final products**
- ▶ **Comparative advantage determined by “tasks” rather than by final products**
- ▶ **Services allow for this production fragmentation to take place**

Services play a key role in comparative advantage and explaining trade patterns






Drivers of Global Value Chains

- ▶ The reduction of transportation costs,
- ▶ IT and telecommunications improvements,
- ▶ Technological innovation,
- ▶ Human capital availability,
- ▶ Competitive labor costs,
- ▶ Proximity to supply sources or to final markets because short lead times or customization required by costumers

Many of these factors have to do with SERVICES



Domestic value-added content has fallen as production continues to fragment on a global basis

1995

➔

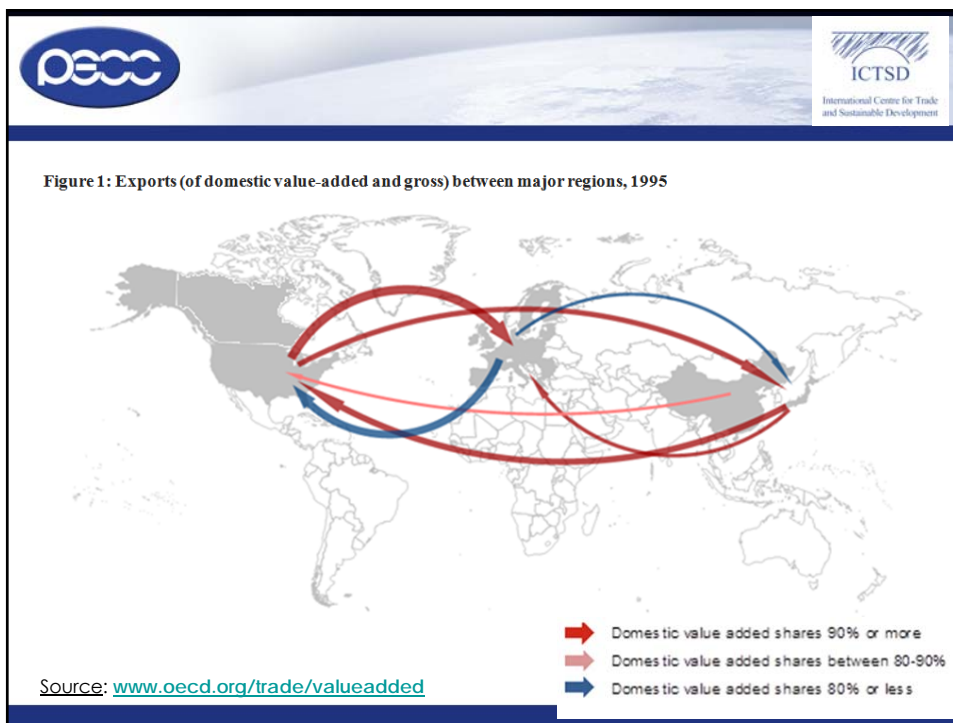
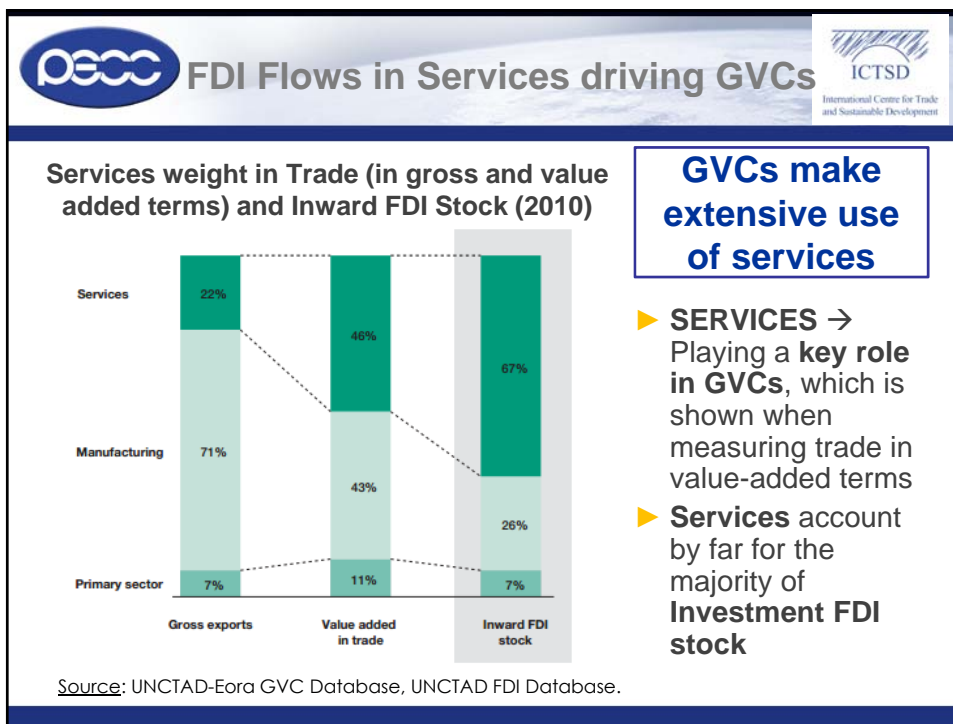
Major trade flows were between the EU(27), North America and Japan.
Trade showed a **high domestic content in exports, over 90% for North America and Japan, and over 85% for China.**

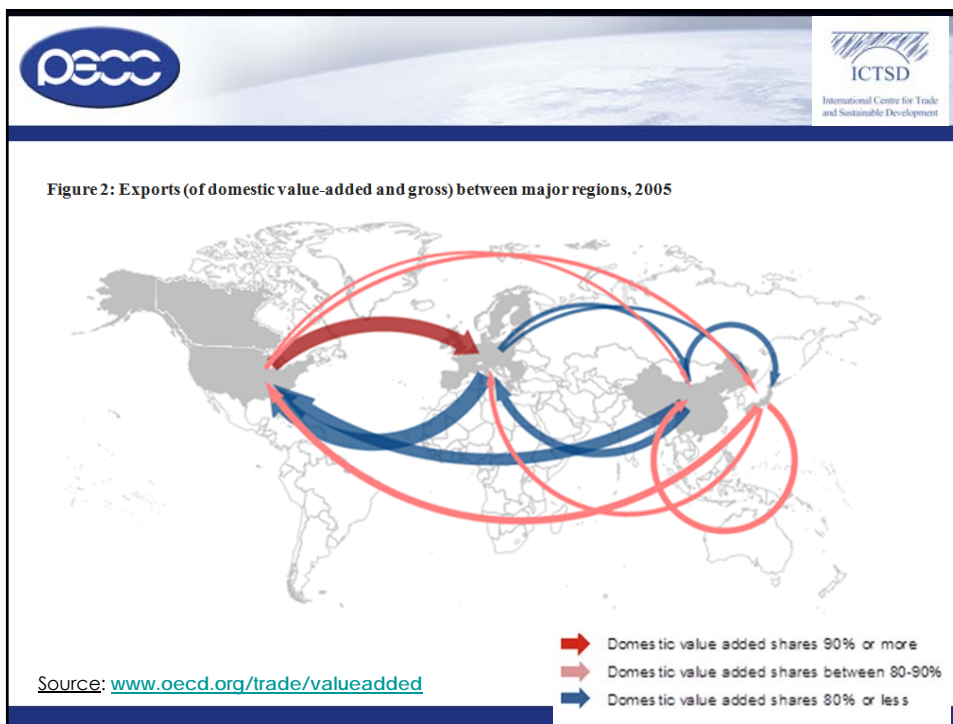
2005

➔

A much higher degree of fragmentation in world production, with significant flows between China and all other major regions, and the emergence of a production hub in Asia.
The domestic value-added content of Chinese exports has fallen to around 70% (so 30% is constituted by imported components / services)

Production and Trade patterns have followed FDI flows to create supply chains





Taking part in Supply Chains is not just for developed economies

Evolution of the developing economy share in Global Value Added Trade

20%
(1990)



➔

30%
(2000)

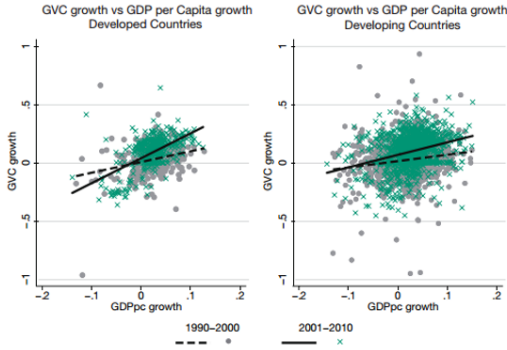
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40%
(Today)

Source: UNCTAD (2013). "Global Value Chains and Development. Investment and Value Added Trade in the Global Economy". Available at: http://unctad.org/en/publicationslibrary/diae2013d1_en.pdf






Positive Correlation between Growth in GVC participation and GDP per capita



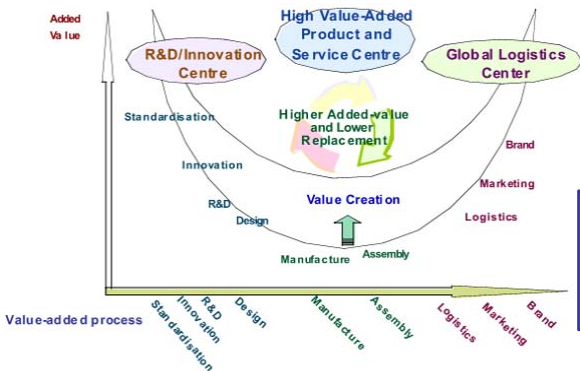
- ▶ Economies with the fastest growing GVC participation have GDP per capita growth rates some 2% above the average
- ▶ economies that increased their participation in GVCs and their domestic value added in exports experienced GDP per capita growth of 3.4%, compared to 2.2% for economies that only increased their participation in GVCs without “upgrading”


Source: UNCTAD-Eora GVC Database, UNCTAD analysis.
 Note: the regression between the annual GDP per capita (in PPS) growth and annual GVC participation index growth, in logs, shows a positive and significant correlation, at the 5% level. This relation also holds, at the 5% level, dividing the sample in developed and developing countries, and in two time periods (1990-2000 and 2001-2010). To avoid picking-up a compositional effect resulting from the correlation between a country's total value added (used as a component to calculate the GVC participation index) and its per capita GDP, all regressions use lagged (one year) GVC growth rates.

SERVICES are what adds most Value to Output



"Smiley Face": conceptual model of the shift to a high value added, globally integrated, services economy





A particularity of SERVICES →
 They are not as visible as intermediate goods but they are also embodied along production adding high value

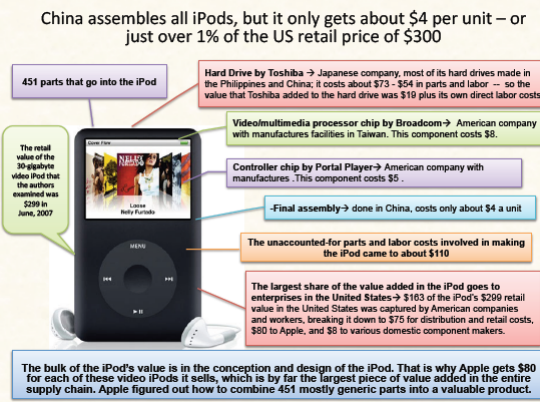
Source: Business Week Online Extra, May16, 2005





Embodied Services in the iPod


More than 50% of the iPod's value has nothing to do with merchandise components and all to do with services activities involved in conception, design, software development

China assembles all iPods, but it only gets about \$4 per unit – or just over 1% of the US retail price of \$300





2. Many off-shored services go into Value Chains



Firms have many options now for Outsourcing & Off-shoring Services

► Possibilities are vast and will depend on each particular business strategy, cost structure and attractiveness of outsourcing options


		Location Decision	
		Domestic	Overseas
Corporate Boundary Decision	Insource	Domestic Divisions/Affiliates 1	Establishing Foreign Affiliates (FDI and trade) 4
	Outsource	Source from Domestic Suppliers 1	Source from Foreign Suppliers (International trade) 2

➔ Offshoring

⬇ Outsourcing

Offshoring Services

Source: Sako, Mari. (2005). Outsourcing and Offshoring: Key Trends and Issues. Paper presented at the Emerging Markets Forum.



Case Study: Services used by Sandvik Tooling


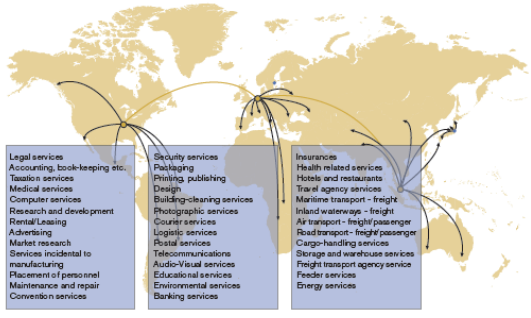


Figure 1: Services needed for effective supply chain and delivery of goods, Sandvik Tooling

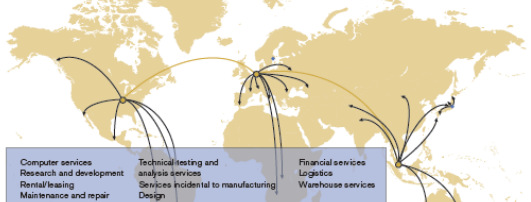


Legal services
Accounting, book-keeping etc.
Taxation services
Medical services
Computer services
Research and development
Rental/Leasing
Advertising
Market research
Services incidental to manufacturing
Placement of personnel
Maintenance and repair
Convention services

Security services
Packaging
Printing, publishing
Design
Building-cleaning services
Photographic services
Courier services
Logistic services
Postal services
Telecommunications
Audio-Visual services
Educational services
Environmental services
Banking services

Insurances
Health related services
Hotels and restaurants
Travel agency services
Maritime transport - freight
Inland waterways - freight
Air transport - freight/passenger
Road transport - freight/passenger
Cargo-handling services
Storage and warehouse services
Freight transport agency service
Fender services
Energy services

Services delivered to the customer, Sandvik Tooling




Computer services
Research and development
Rental/Leasing
Maintenance and repair

Technical/testing and analysis services
Services incidental to manufacturing
Design


Financial services
Logistics
Warehouse services

- ▶ Sandvik Tooling, a high-technology goods manufacturer, needs 40 different services to deliver products globally
- ▶ The company supplies 15 services themselves
- ▶ **SERVIFICATION** → Good producing companies increasingly buy, produce, sell and export services

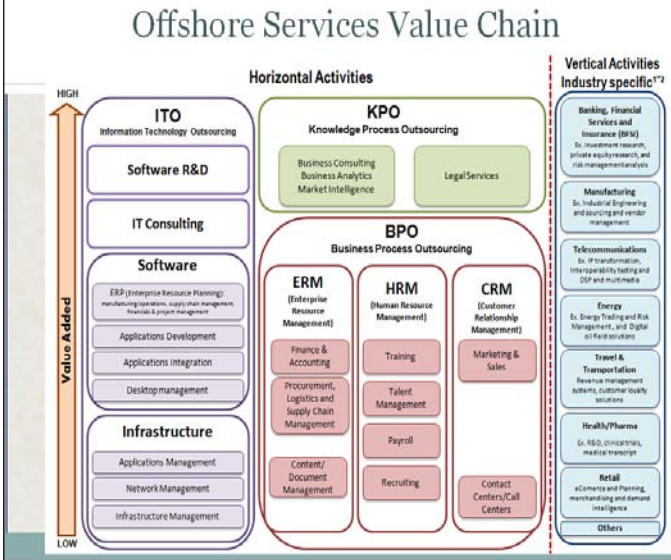
Source: "Global Value Chains and Services". Kommerzkollegium 2013:1. National Board of Trade. Available at: <http://www.kommer.se/Documents/dokumentarkiv/publikationer/2013/rapporter/report-global-value-chains-and-services-an-introduction.pdf>



Offshore Services going into Value Chains



Offshore Services Value Chain



Horizontal Activities:

- ITO** (Information Technology Outsourcing)
- Software R&D**
- IT Consulting**
- Software**
- Infrastructure**

Vertical Activities Industry specific^{1,2}:

- Banking, Financial Services and Insurance (BFSI)**
- Manufacturing**
- Telecommunications**
- Energy**
- Travel & Transportation**
- Health/Pharma**
- Retail**
- Others**


Horizontal Activities:

- BPO** (Business Process Outsourcing)
- KPO** (Knowledge Process Outsourcing)


Vertical Activities Industry specific^{1,2}:

- **BPO**
- **ITO**
- **KPO**

Source: Gary Gereffi (2010). Center on Globalization, Governance & Competitiveness at Duke University




Upgrading along Offshore Services Value Chains





- **Policies first focus on ENTERING GVCs through capturing off-shoring services activities; then focus on UPGRADING in next phase**

Different **education levels, revenue and salary per employee** for a types of services off-shoring activities

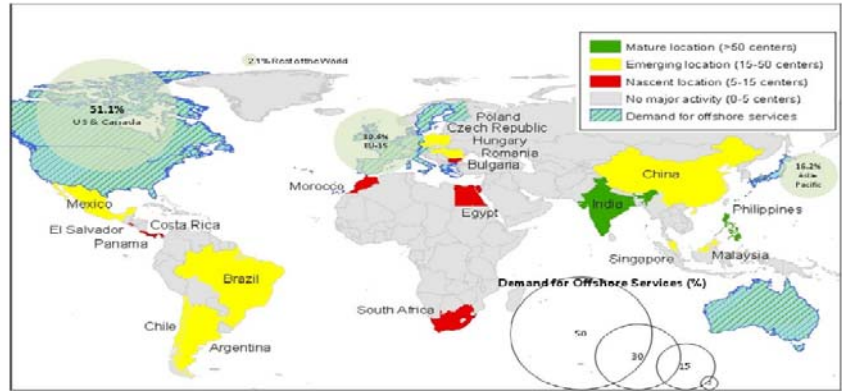
Segment	Activities	Most populous position within segment	Average education level for employees	Average revenue per employee ^a (US\$)	Median salary per employee ^a
BPO	Call Centers	Call center agents & technicians	High School / Bachelors degree	\$19,720	\$17,280
ITO	IT Infrastructure	Computer technician	High School/technical institute	\$20,704	\$16,932
	Software Development	Programmers	Bachelors / Masters Degree	\$36,788	\$28,065
	IT Consulting	Systems analysts	Bachelors / Masters Degree	\$55,956	\$45,455
KPO	Business and Financial Services	Financial analyst	Bachelors Degree in Business Administration	\$127,081	\$47,150
Vertical Activities	Engineering Services	Engineer	Bachelors Degree	\$103,844	\$53,514



Note: ^a This information is drawn from a confidential study published by Mercer 2008 for a certain country in Latin America.
Sources: Fernandez-Stark et al., 2010b; IDC Latin America, 2009; Meller & Brunner, 2009; Mercer, 2008; Wadhwa et al., 2008.
Source: Fernández-Stark, K., P. Bamber y G. Gereffi (2011). "The Offshore Services Global Value Chain. Economic Upgrading and Workforce Development". Center on Globalization, Governance & Competitiveness. Duke University. (2011). P. 12.

Supply and Demand Centers for Offshore Services: many APEC economies



Source: CGGC, Duke University based on data from Everest and Datamonitor.


APEC → Good potential for offshoring services




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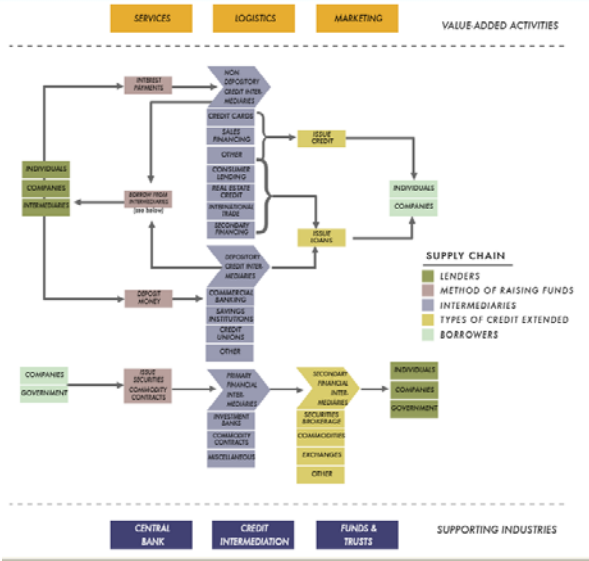
Services have a double role in Supply Chains

1. They are enablers of GVCs, acting as the glue among the different productions segments: many off-shored services go into GVCs
2. They constitute Services Value Chains on their own



3. Services constitute Value Chains on their own






SERVICES LOGISTICS MARKETING VALUE ADDED ACTIVITIES


CENTRAL BANK CREDIT INTERMEDIATION FUNDS & TRUSTS SUPPORTING INDUSTRIES

Banking & Financial Services Value Chain

Source: Fernández-Stark, K; P. Bamber y Gary Gereffi (2011). "The Offshore Services Global Value Chain. Economic Upgrading and Workforce Development". Duke University, Center on Globalization, Governance and Competitiveness.



Tourism Value Chain



	Outbound country			Inbound country		
Tourist →	International distribution	International transport	National Distribution	National Transport	Accommodation	Excursions
	Travel agent	International air carrier	National travel agent	National air carriers	Luxury hotels	Activities
	Tour operator	Cruise	National tour operator	Ground transportation services	Large hotels	Local guides
	Global distribution systems		Local tour operator		Small hotels	National parks, monuments
	Independent		Destination management organization			Retail, restaurant
	Natural assets in tourist destinations Flora/fauna, environment, historical sites, identity groups					

Source: World Bank.



Policy Lesson 1: Services and Value Chains: Barriers no longer Protect

- ▶ With trade in intermediates and services –the cost of protectionism is magnified and higher than is generally understood since goods and services cross borders several times during GVC operations.
- ▶ It is therefore critical to maintain open markets for cross border trade in goods and services & FDI.
- ▶ In a world of Global Value Chains, tariffs & services restrictions punish domestic producers who use imported “inputs” because those inputs are re-exported.

**With GVCs → “Trade Barriers no longer Protect”
The world effectively becomes the market!!**



Policy Lesson 2. Supply chains shift Focus from Tariffs to Logistics where Services are Key

- ▶ **The operation of supply chains in goods shifts focus on trade barriers from tariffs to logistics:** recent WEF-World Bank report showed that improving logistics halfway to world best practice (Singapore) could increase world GDP 6 times more than removing tariffs
- ▶ Among the logistics barriers, **efficient services play a key role, especially telecoms and transport**



Policy Lesson 3. It is easier to capture a Services ‘Task’ in a Supply Chain

- ▶ It is no longer necessary to “build” an entire supply chain at home; economies can **capture one ‘task’** of the supply chain

Often easier to do in services than goods – Why

- ▶ Because **services require less capital intensive investments: the greatest investment is in human capital**
- ▶ Services are also suited to output on smaller economies of scale and especially to **SME** operations

To capture services tasks in a supply chain, it is essential to focus on services efficiency & competitiveness



Policy Lesson 4. Government policies can do a lot for services efficiency & to promote participation in Value Chains

Factors affecting COMPETITIVENESS IN SERVICES:

- 1) Human Capital (talent, education, skills, ideas)
- 2) Cost considerations (financial attractiveness)
- 3) Enabling Digital Infrastructure – efficient telecoms
- 4) Investment in Intangible Assets (copyright, business methods, brands)
- 5) Quality of Institutions and Policy Focus
- 6) Open trade and investment framework
- 7) Efficiency of Domestic Regulation



Policy Lesson 5: Gains from Participating in Value Chains can be Widespread

- ▶ Joining a value chains is not a zero sum game ; many economies can provide services off-shoring tasks as these are highly differentiated
- ▶ All economies and economic activities can benefit; possibilities are vast if the fundamentals in place
- ▶ There is still a huge potential for expansion of services trade within APEC which could also reinforce its position in supply chains



This argues for a great focus on SERVICES within APEC at level of the SOM



Services in APEC not as important as they could be

Despite prominence of GVCs in APEC, services still underperform

- 1. Trade in services (as measured) remains low**
- 2. Many behind the border barriers affect trade in services**
- 3. Value chain operation could be much higher in region**

Services contribute significantly to GDP (67%) and Employment (52%) in APEC



Services make up 67 percent of APEC GDP. This is nearly identical to that of the world economy.

APEC Policy Support Unit, StatsAPEC, Asia-Pacific Economic Cooperation, n.d. Web. 18 June 2012. <http://statistics.apec.org/>. ■ APEC Total ■ APEC Service Sector Size

Service sectors are APEC's largest source of employment and will be the largest driver of jobs creation over the next decade.

International Labour Office, Global Employment Trends 2012 Preventing a deeper job crisis. Geneva: International Labor Organization, 2012. Print. ■ Services ■ Other

Source: "Trade in Services in the APEC Region". The University of Southern Carolina Marshall School of Business. September 2012. Available at: http://www.keidanren.or.jp/abac/report/20120918_USC_Report.pdf

Service Export Growth in the past 10 years in APEC has been mainly in only 2 sectors

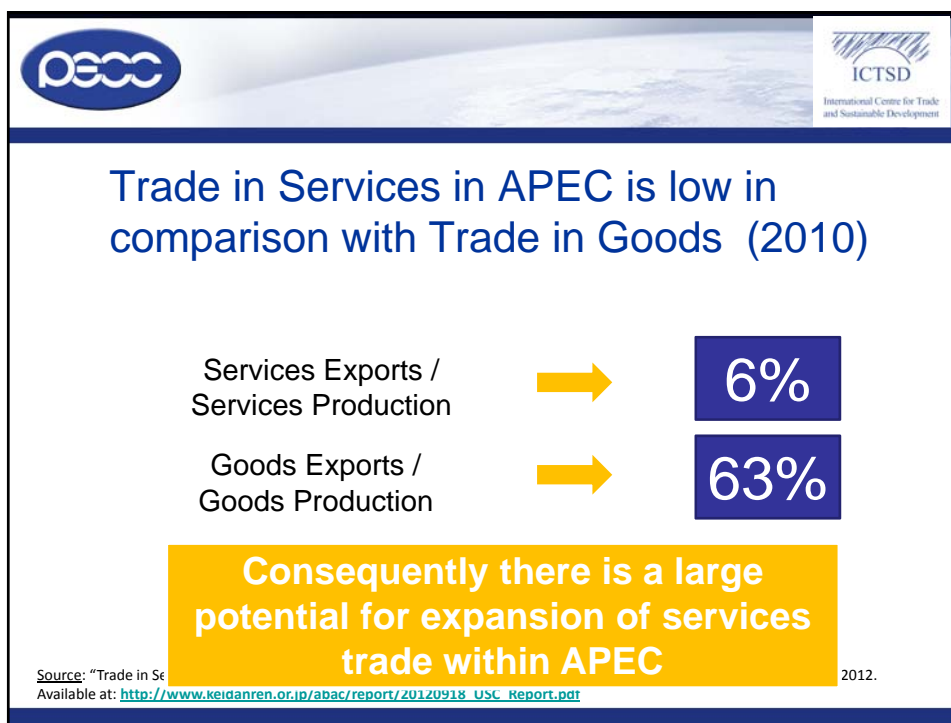
Service Export Growth Trend by Service Sector

■ 2001 ■ 2006 ■ 2011

Service Sector	2001	2006	2011
Travel	~400	~550	~850
Transportation	~300	~450	~650
Other business services	~150	~250	~300
Royalties and license fees	~100	~150	~200
Financial services	~50	~100	~150
Computer and information services	~20	~40	~60
Communications services	~10	~20	~30
Construction	~5	~10	~15
Insurance services	~5	~10	~15
Personal, cultural and recreational services	~5	~10	~15

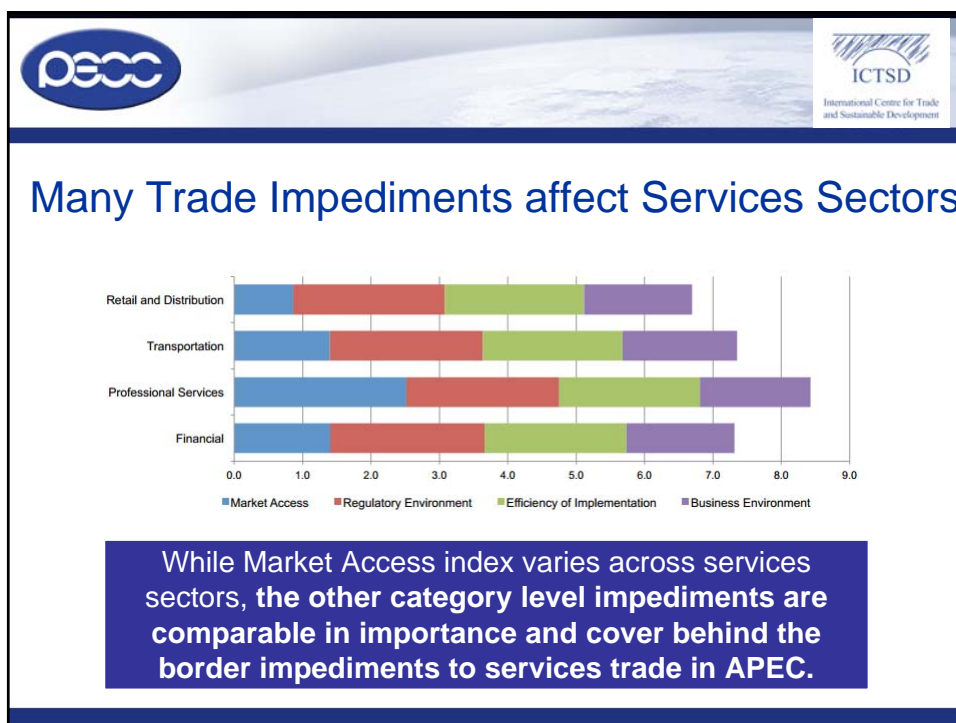
- ▶ Growth in Service Exports for most service sectors has been minimum within APEC
- ▶ Travel & Transport remain most important services traded

Source: "Trade in Services in the APEC Region". The University of Southern Carolina Marshall School of Business. September 2012. Available at: http://www.keidanren.or.jp/abac/report/20120918_USC_Report.pdf



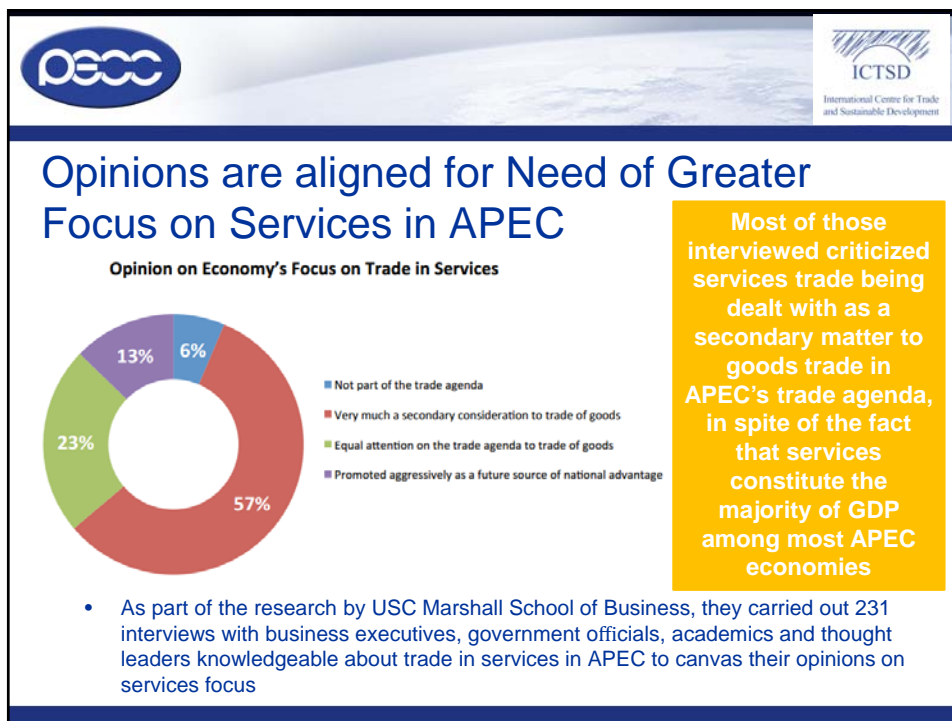

Behind-the-border Regulatory Barriers are impeding Services Exports in APEC

- ▶ Behind the border barriers and impediments are the most significant obstacles for trade in services.
- ▶ Domestic regulations, industry standards, professional requirements and efficiency of government agencies have larger impact than market access barriers.
- ▶ These are still quite present in APEC region.



Other Challenges: Data Availability and Depth of Services Agreements in APEC

- ▶ **Scarcity of data on trade in services** → implications for policy making
 - Differences in definitions, measurement and the lack of detailed service trade statistics for all economies → difficulty to identify trade pattern trends / difficulty to measure the effectiveness of policies
- ▶ **Service provisions within FTAs lack depth**
 - Among the APEC FTAs, 80% of service provisions focus on market access barriers while only 20% focus on behind the border issues such as regulatory heterogeneity between economies.

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Thank You

Dr. Sherry Stephenson
sstephenson@ictsd.ch

