

TFCTN DIALOGUE ON SERVICES AND GLOBAL VALUE CHAINS



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"VALUE CHAINS & TRADE IN SERVICES: SETTING THE STAGE"

Value Chains and Services

- Determinants of the new reality of 21st century production and trade patterns
 CHARACTERIZED BY:
- 1) Growing trade in intermediate products
- 2) High importance of services in output, trade and employment
- 3) Increasing fragmentation of service related tasks
- 4) Comparative advantage in trade based on "tasks" rather than final products

Drivers of Global Value Chains

- Reduction of transportation costs
- IT and telecom advances
- Technological innovation
- Human capital availability
- Competitive labor cost
- Proximity to supply sources or to final markets because of short lead times or customization required

Many of these factors have to do with SERVICES

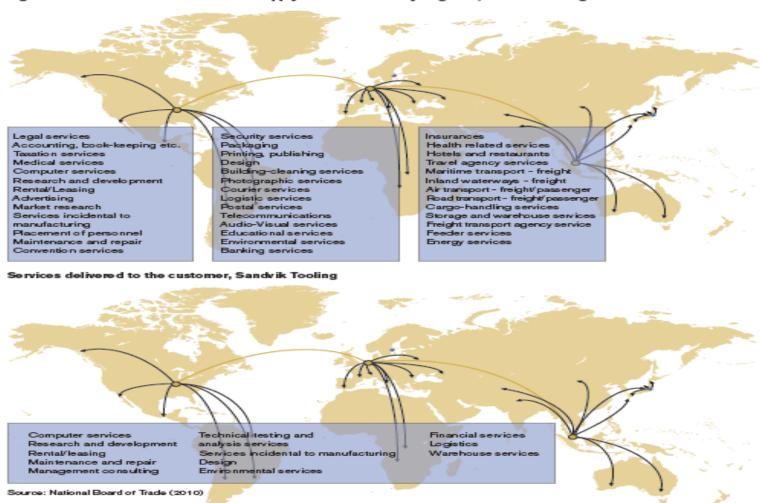
Servicification: what is it?

- Increased use of services in manufacturing- for production and sales
- Increased consumption of services
- Embedded and embodied services in intermediates and final products
- Increasing "modularization" makes separating goods from services harder e.g. "business functions"

Services are now the most important component of productivity growth in our modern economies

Case Study: Services used by firm Sandvik Tooling in its production

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



- Sandvik Tooling, a hightechnology 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

<u>Source</u>: "Global Value Chains and Services". Kommerskollegium 2013:1. National Board of Trade. Available at:

http://www.kommers.se/Documents/dokumentarkiv/pub likationer/2013/rapporter/report-global-value-chainsand-services-an-introduction.pdf

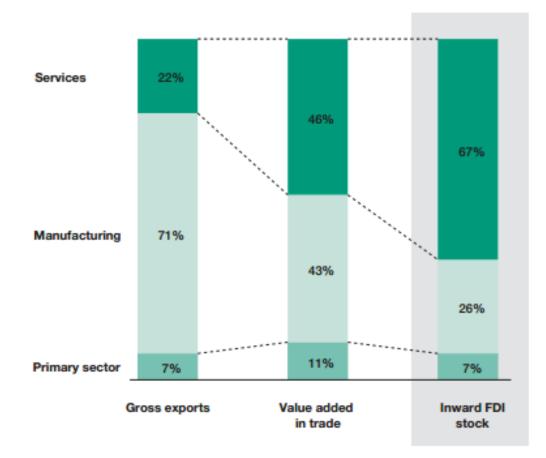
Role of Services in GVCs

Services enable Global Value Chains (GVCs) to operate Services play a double role:

- 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 (examples: tourism value chain; medical services value chain; financial services value chain)

Services have most weight in trade and in FDIs: enable GVCs

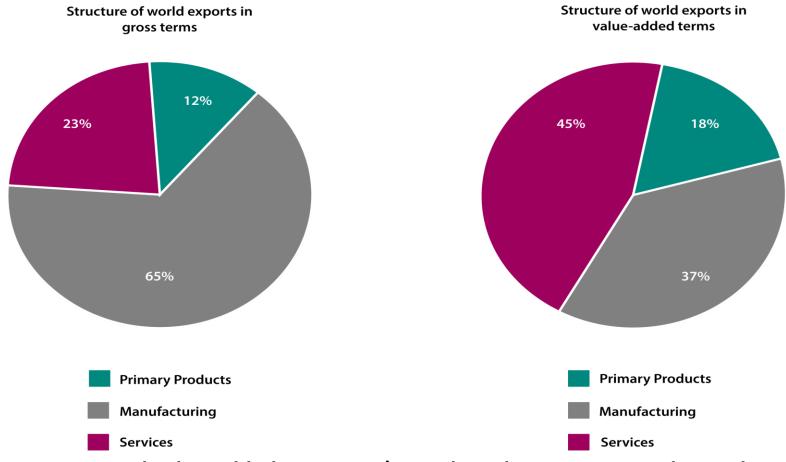
Services weight in Trade (in gross and value added terms) and Inward FDI Stock (2010)



- ➤ SERVICES → More important than the manufacturing and primary sectors in both trade and FDI
- FDI in services is "leading" the operation of GVCs

Source: UNCTAD-Eora GVC Database, UNCTAD FDI Database.

Better Measurement now available of Services Contribution to Trade on a Value-Added Basis



Gross and value-added measures (2008, based on OECD-WTO data; taken from new OECD-WTO Data Base on Trade in Value-Added)

How do Services generate Value-added in Trade?

- Services facilitate "trade in tasks" by connecting the points in a goods or services value chain
- Contribution to the value chain is measured through "value added" by each task
- Services can either be "EMBODIED" or "EMBEDDED" in products –

Very often the largest component of value in traded products is created by services inputs/tasks

Embodied and Embedded Services in Global Value Chains

 Services play a double role in the globalized economy and in GVCs

EMBODIED SERVICES

Services are "embodied" during the production process into agricultural and manufacturing products (e.g. energy, transport, communications, insurance, accountancy, design, software, and other technical expertise) – **delivered within the product.**

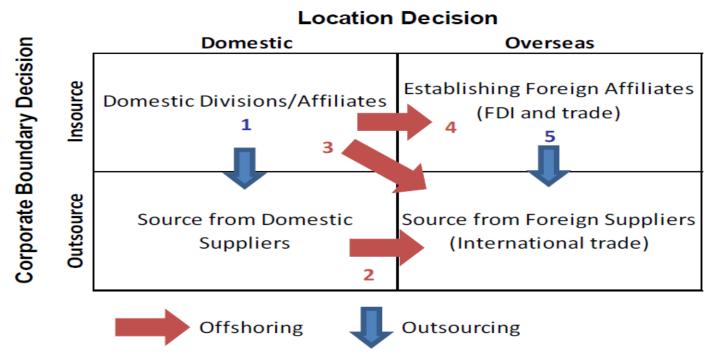
EMBEDDED SERVICES

Services are "embedded" at the point of merchandise sale, for example financing, training, maintenance, repair, product insurance, product leasing, and other after-sales service - **delivered alongside the product.**

Services and Value Chains: the modern decision to "Off-shore" Services

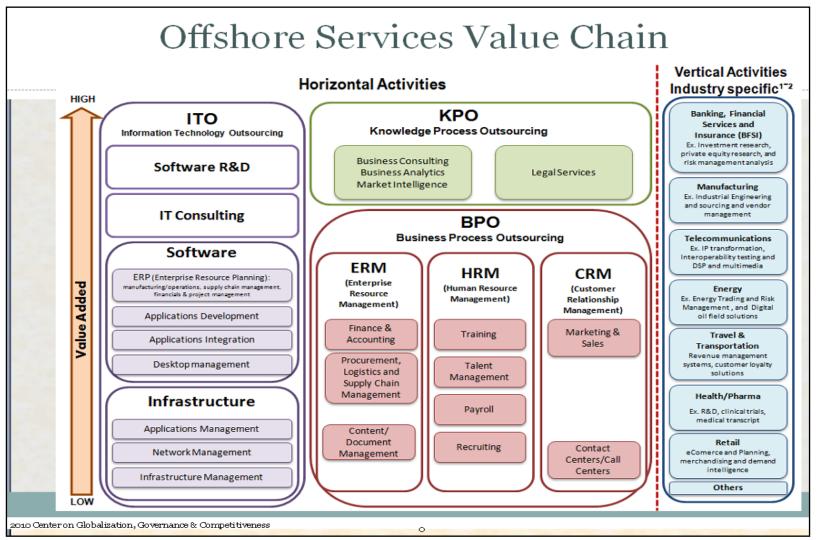
- ◆Defragmentation of production of goods and services have opened up numerous possibilities for firms to decide what to do "in-house" and what to source "out-of-house"
- ◆So... what to outsource or offshore? → Possibilities are vast and will depend on each particular business strategy, cost structure and attractiveness of outsourcing options
- ◆Tendency is to retain areas closest to "core" competency of firm and outsource other services

Outsourcing and Off-shoring Decisions by Firms operating in Value Chains



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

Main Offshore Services going into Value Chains: BPO; ITO; KPO Outsourcing

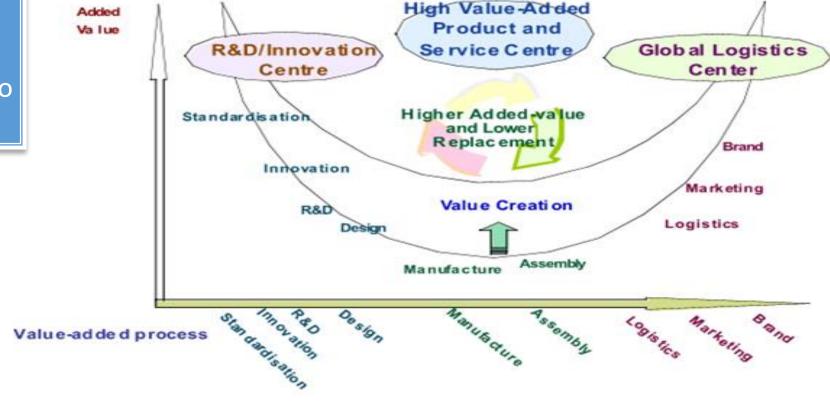


Source: Gary Gereffi (2010). "The Offshore Services Global Value Chains".

Upgrading Services in Value Chains: which services add the most value?

The challenge is to move up
the value chain
into higher value-added tasks
while deciding which activity to
outsource / offshore

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



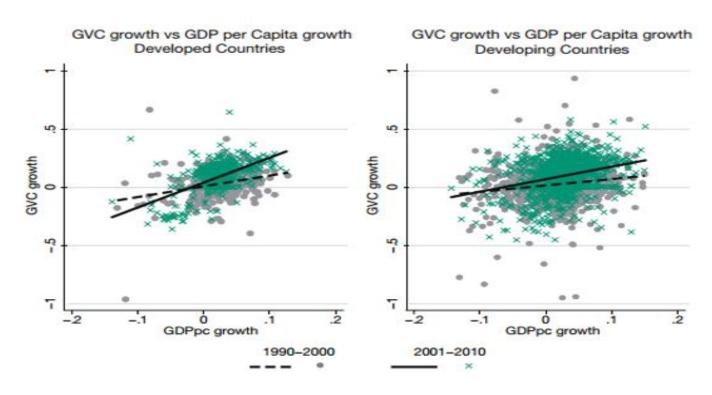
Source: Business Week Online. May 16, 2005.

Entering and moving up the value chain: A growth strategy for developing countries?

- UNCTAD Report: Developing countries that participate in GVCs grow faster on average than others
- Where should the entry focus be? On capturing a task and entering the value chain; or on targeting a specific valueadded level of activity?
- This choice may imply different development strategies

Moving up the value chain may help developing countries escape the middle income trap

Positive Correlation between Growth in GVC Participation and Growth in GDP



- ► Economies with the fastest growing GVC participation have GDP per capita growth rates some 2% above the average
- ➤ Countries 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 countries that only increased their participation in GVCs without "upgrading"

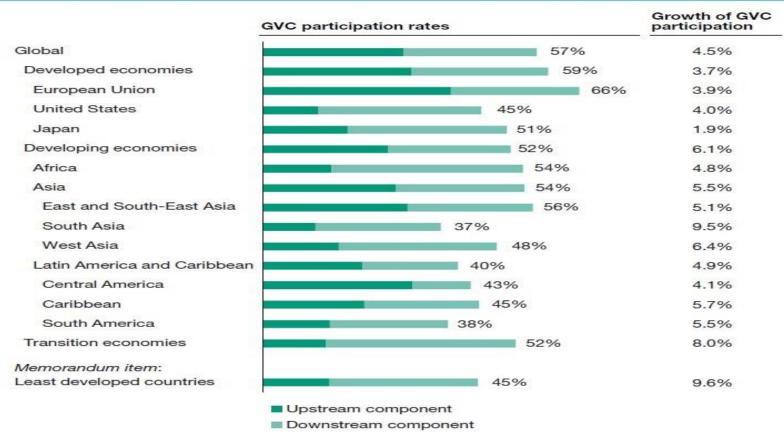
Source: UNCTAD-Eora GVC Database, UNCTAD analysis.

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.

<u>Source</u>: UNCTAD (2013). *World Investment Report 2013. GVCs: Investment and Trade for Development*

Value Added by Developing Regions in Trade is increasing

Figure IV.8. GVC participation, 2010, and GVC participation growth rates, 2005–2010

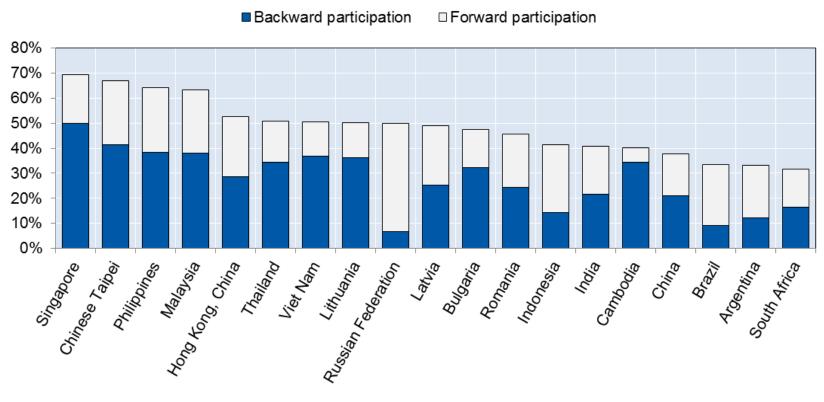


Source: UNCTAD-Eora GVC Database.

GVC Participation Index: Developing Economies

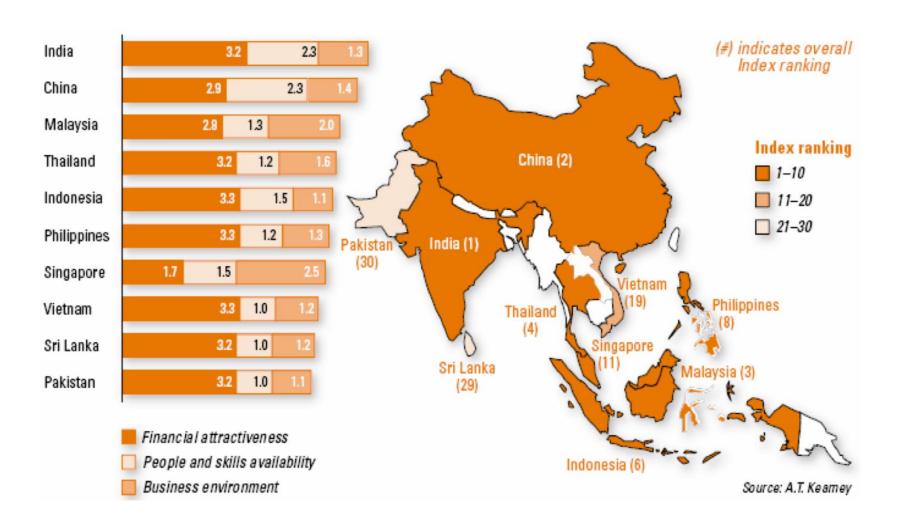
For non-OECD economies: Asian countries participate more in GVCs; others much less

Non-OECD economies	Backward participation	Forward participation
Singapore	50%	19%
Chinese Taipei	42%	25%
Philippines	38%	26%
Malaysia	38%	25%
Hong Kong, China	28%	24%
Thailand	35%	16%
Viet Nam	37%	14%
Lithuania	36%	14%
Russian Federation	7%	43%
Latvia	25%	24%
Bulgaria	32%	15%
Romania	24%	21%
Indonesia	14%	27%
India	22%	19%
Cambodia	34%	6%
China	21%	16%
Brazil	9%	24%
Argentina	12%	21%
South Africa	17%	15%



SOURCE Miroudot, S. and K. De Backer (2013), "Mapping Global Value Chains", OECD Science, Technology and Industry Working Paper, OECD Publishing, forthcoming.

Asian Destinations are Attractive Locations for Services Off-shoring Activities



Source: Chanda and Pasadilla, 2011

Questions raised by Services and Global Value Chains

- 1) Who captures the value in Global vlaue Chains (GVCs)? Does the position of the service task in the GVC make a difference?
- 2) Is targeting global value chains useful as a development strategy?
- 3) What services tasks are "better" to capture for participating in GVCs? Or is there a "better"?
- 4) What policies are useful for promoting services participation in GVCs?
- 5) Is enough being done?

Factors affecting Competitiveness in Services for Participation in GVCs

- 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
- 6) Open trade and investment framework
- 7) Efficiency of Domestic Regulation
- 8) Policy Focus on Services: Mainstreaming into Development Strategy Reports and Policy

GOV'T CAN DO A LOT TO SHAPE SERVICES EFFICIENCY!

THANK YOU!