



Putting it All Together | Global Value Chains (GVCs) Jakarta, 2016

Structure of the present lecture

In this module we will discuss several issues:

- The Concept of GVCs
- The Rise of GVCs
- Implications of GVCs for Trade
- GVCs and Investment
- Indonesia's participation in GVCs

What Are GVCs?

“The full range of activities that firms undertake to bring a product or service from its conception to its end-use by final consumers. These activities include design, production and manufacturing, marketing as well as pre-sale and post-sale support.”

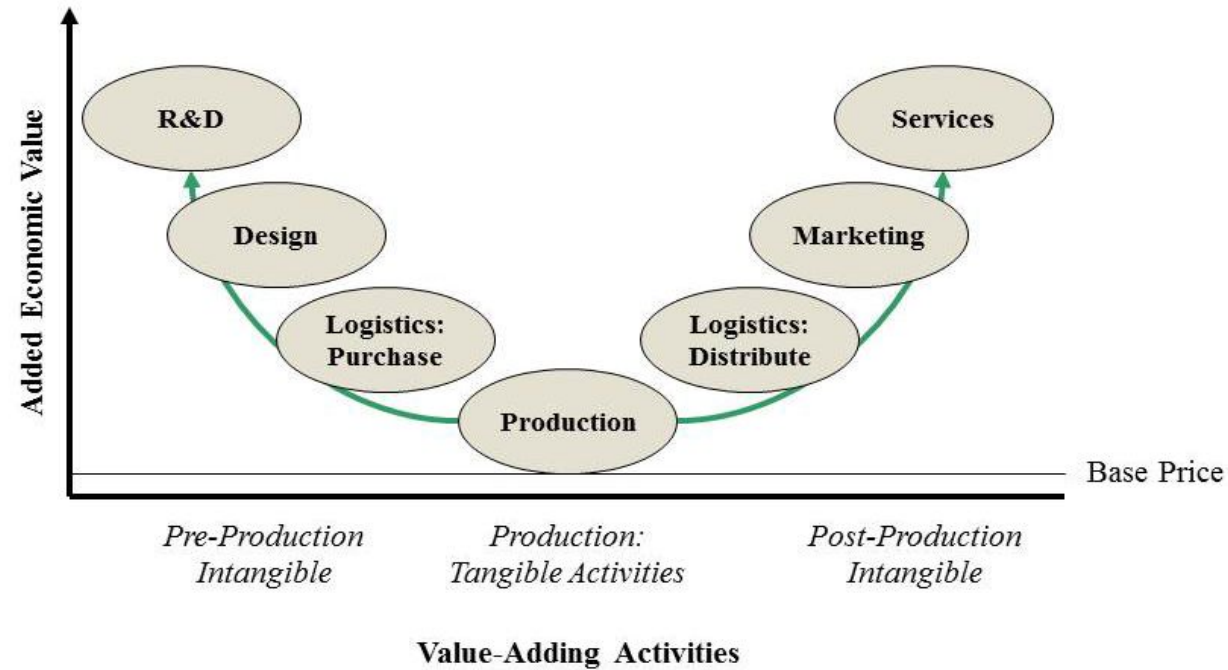
Source: International Trade Center ‘Global Value Chains in Services’

Some basic characteristics of today’s global economy drawn by GVCs:

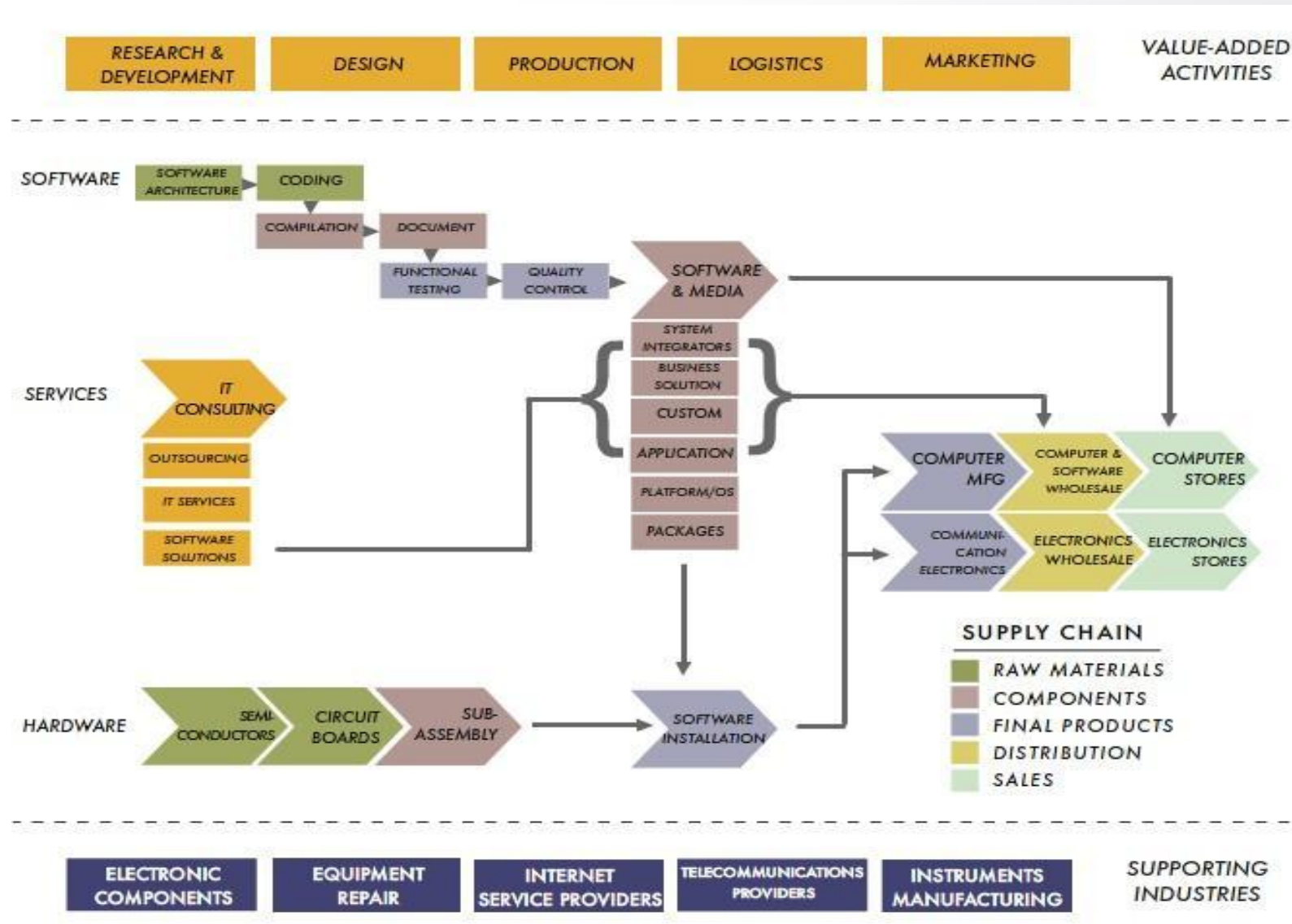
- Growing interconnectedness of economies: fragmentation of production processes, international dispersion of tasks and activities, borderless production systems (more 70% -> intermediate goods/services).
- Specialization in tasks and business functions: most goods and a share of services are “made in the world”.
- Networks of global buyers and suppliers
- New drivers of economic performance, affected production, competition, labor market and so forth

Source: OECD ‘Interconnected Economies’

The 'Smiley Face' Curve

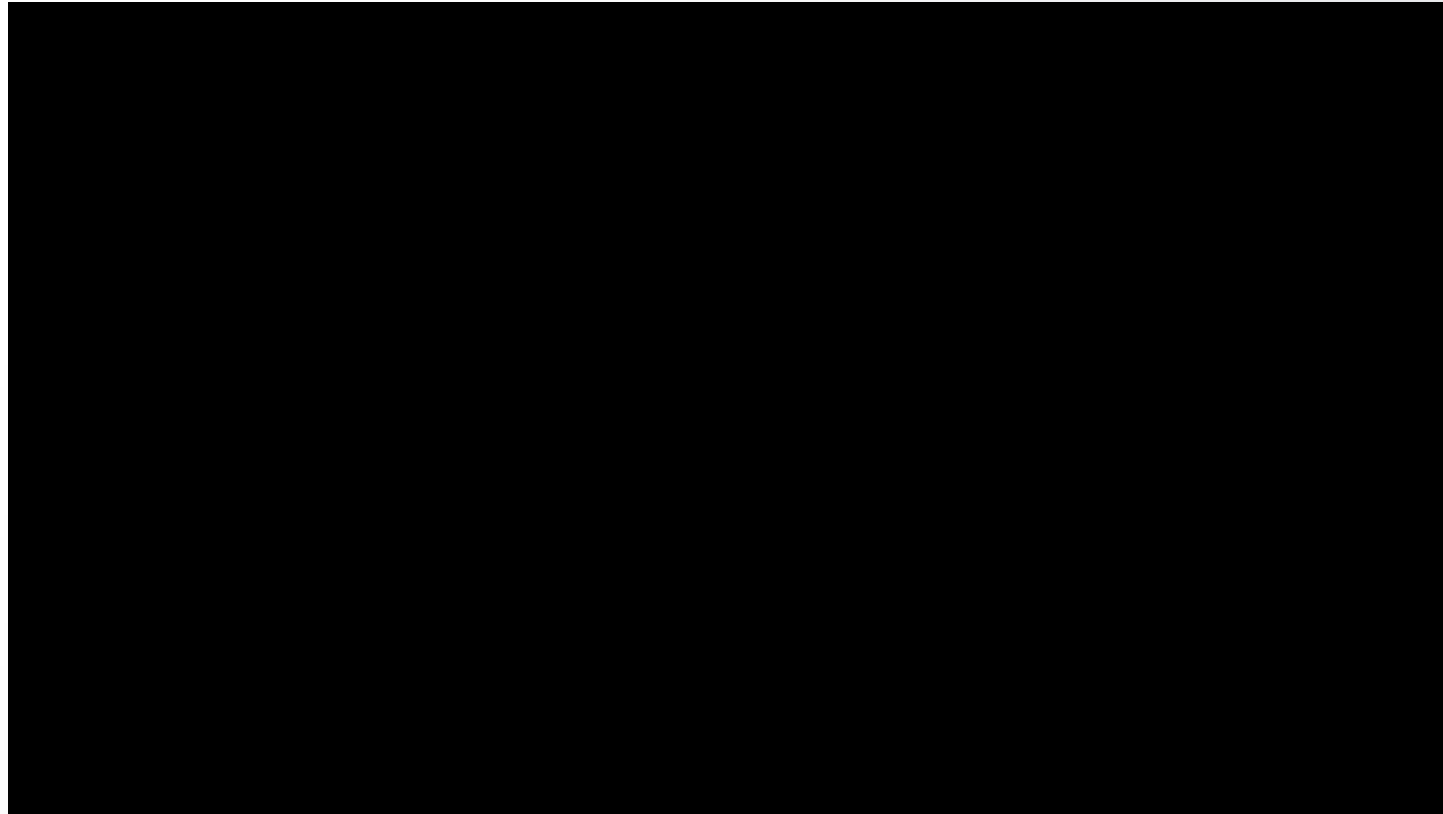


Source: Sébastien Miroudot 'Trade in a World of Global Value Chain' Slides Presentation, WTI Summer Academy 2015



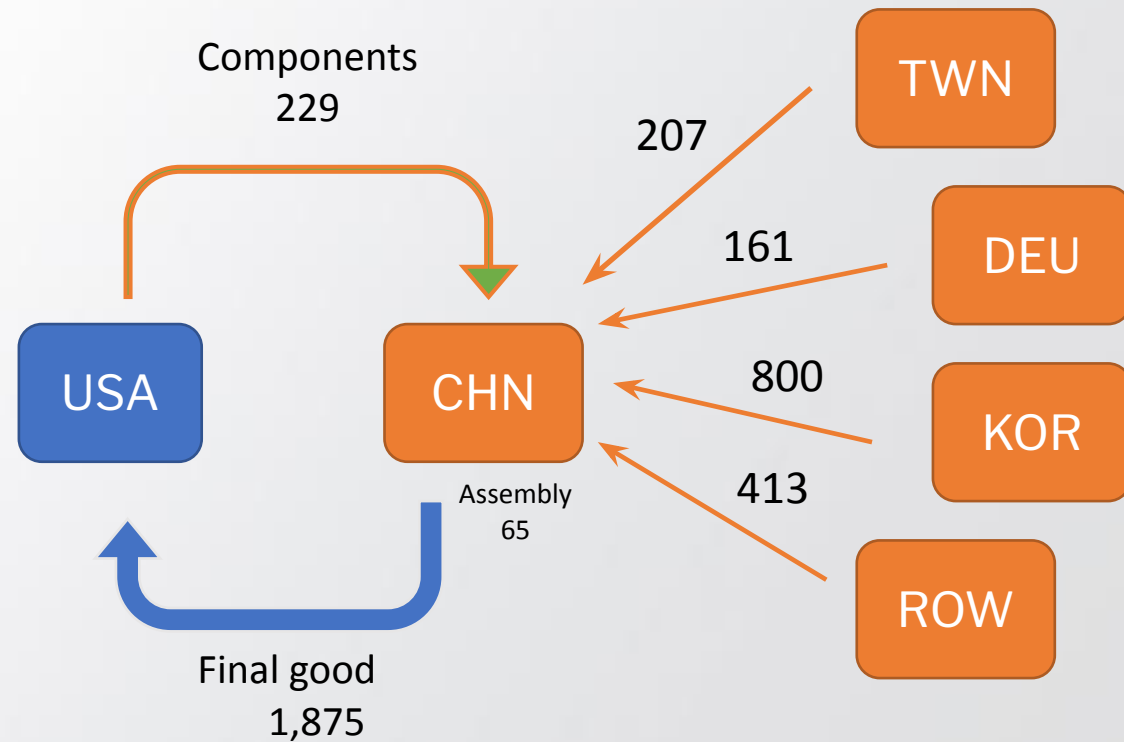
Source: CGGC (<http://www.cggc.duke.edu>)

Let's watch a 5-mins video from the WTO



Who bites the Apple?

Country	Components	Manufacturers	Costs
Chinese Taipei	Touch screen, camera	Largan Precision, Wintek	\$ 20.75
Germany	Baseband, power management, transceiver	Dialog, Infineon	\$ 16.08
Korea	Applications processor, display, DRAM memory	LG, Samsung	\$ 80.05
United States	Audio codec, connectivity, GPS, memory, touchscreen controller	Broadcom, Cirrus Logic, Intel, Skyworks, Texas Instruments, TriQuint	\$ 22.88
Other	Other	Misc.	\$ 47.75
Total			\$ 187.51



Source : Xing and Detert

Sport shoes : 100 Euro (final retail price)

PRODUCTION: 12 EURO

BRAND: 33 EURO

DISTRIBUTION: 55 EURO

Raw material: 8 EURO

Wages: 0.4 EURO

Other expenses: 1.6 EURO

Profits producer : 2 EURO

Transport and taxes: 5 EURO

Retail margin: 32.6 EURO

VAT: 17.4 EURO

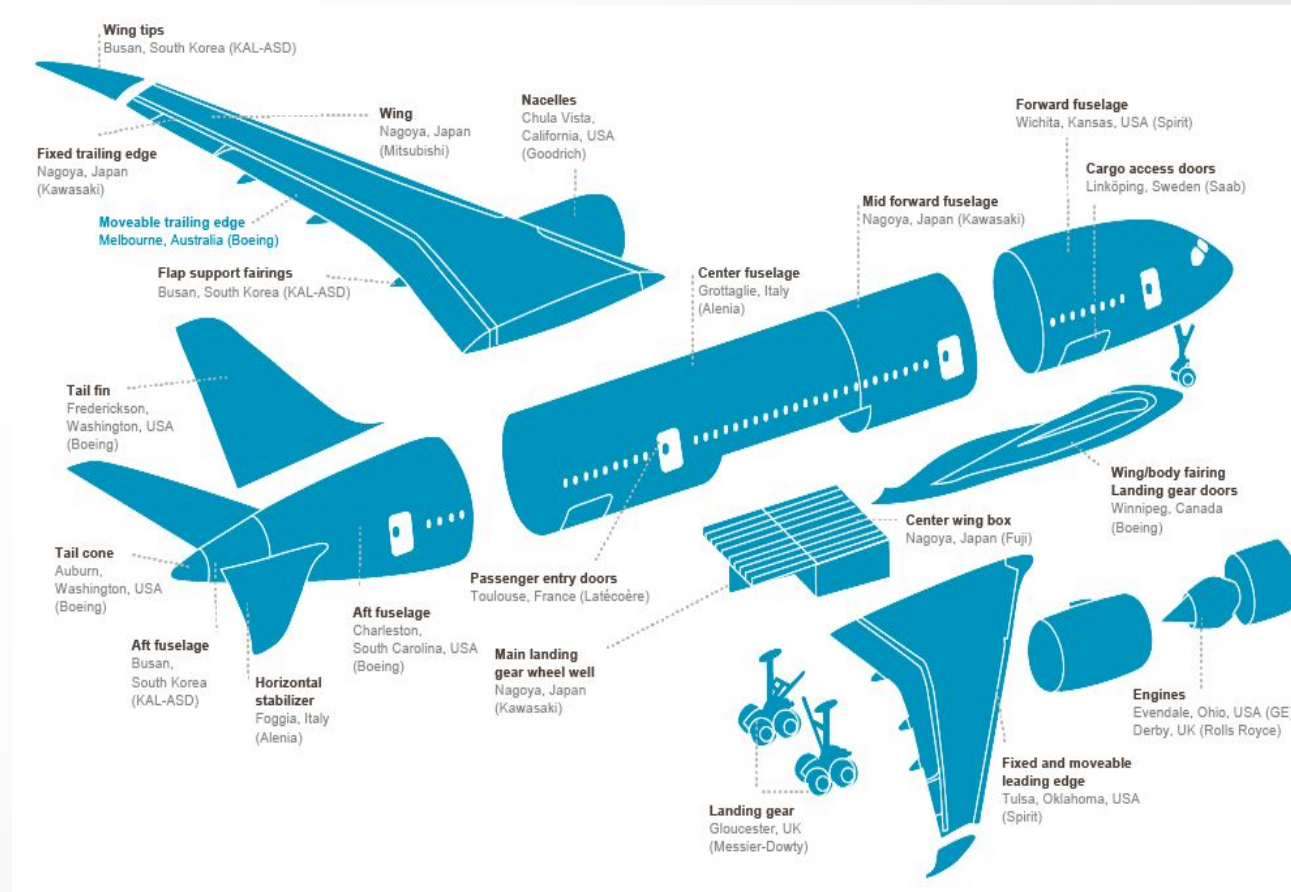
Conception and
design: 11 EURO

Marketing and
branding: 8.5 EURO

Profits brand:
13.5 EURO



Bringing the 787 together



Source: DFAT

The Rise of GVCs

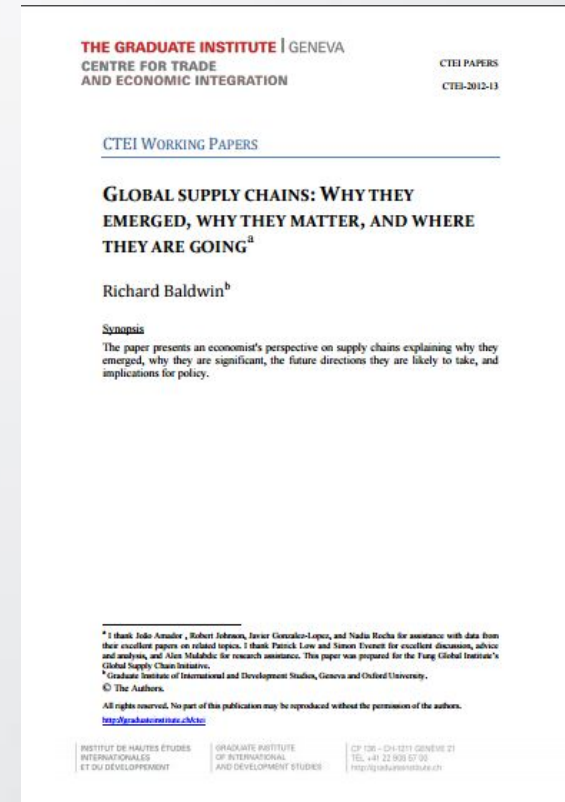
The 'Great Unbundlings' by Richard Baldwin

- First unbundling: steam machine invention made it possible
 - Cut trade costs, produce at vast scale, transform transportation
 - International trade and labor migration boomed
 - Production clustered locally, dispersed globally
 - Spatial separation of factories and consumers

The Rise of GVCs

- Second unbundling: ICT revolution made it possible
 - Communication costs reduced
 - Easier to coordinate complexity at distance
 - Transfer know-how facilitation
 - Internationally mobile technology
 - Production started to disperse geographically
 - fragmentation, offshoring, vertical specialisation, and slicing up the value-added chain.

Want to know more about the rise of GVCs?



How Economies Engaging in Value Chains

- Either as users of foreign input or suppliers of intermediate goods/services
- Not all equally engage and depend on their size and openness
- Emerging economies play increasingly important role
- Upstream (raw materials, R&D) and downstream (production and customer services), this position may change over time
- Both multinational and small firms involved

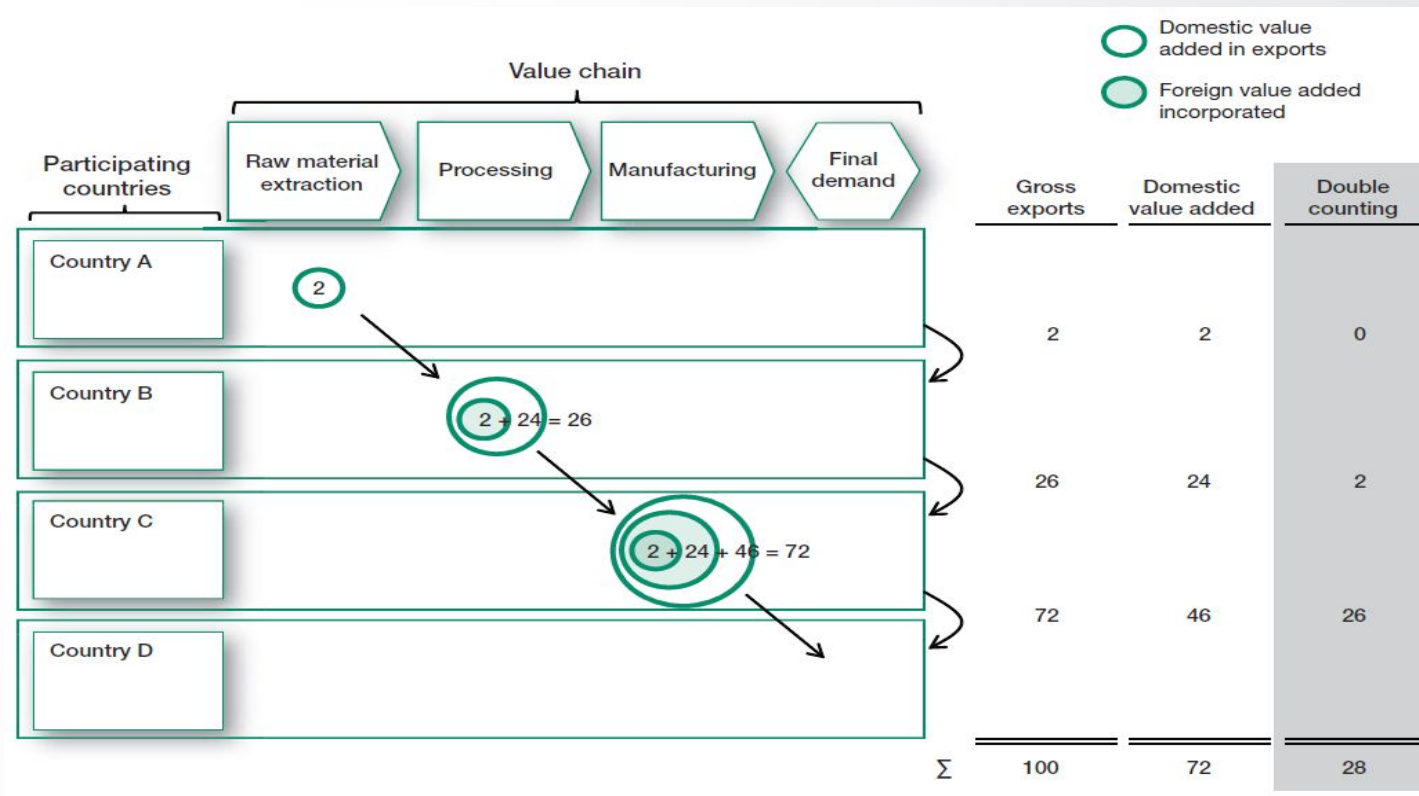
Read more about Interconnected Economies

INTERCONNECTED ECONOMIES:
BENEFITING FROM GLOBAL VALUE CHAINS

SYNTHESIS REPORT

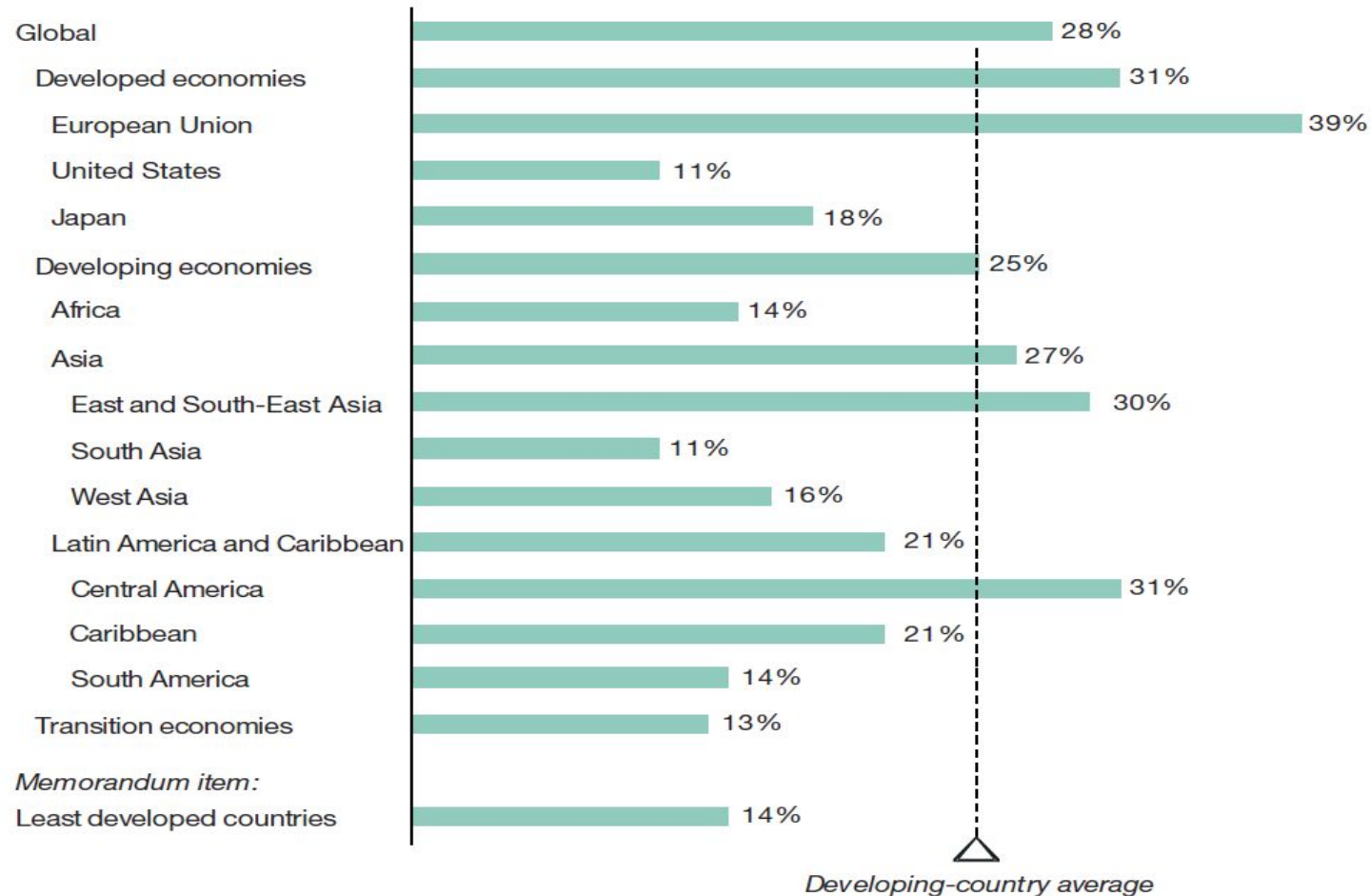


Value Added Trade – Raw Materials Counted Several Times in World Exports



Source: UNCTAD

Share of Foreign Value Added in Exports, by Region (2010): Indicating the extent to which a country's exports depend on imports



Source: UNCTAD

The implications of GVCs for trade policies

- GVCs contribute to double counting in trade
 - Intermediate inputs are traded across the borders many times. This process have resulted tariffs accumulation.
- Trade facilitation measures become increasingly significant
 - Trade policy focusing on reducing supply-side constraints such as cutting the red tape, providing fast and efficient customs and ports management is necessary to improve participation in GVCs
- Non-tariffs measures are serious barriers for GVCs participation
 - Mandatory compliance with varied standards and technical regulations proves to be burdensome for companies including small-medium enterprises (SMEs)
 - Regulatory convergence and mutual recognition agreements could be a way to ease this burden of compliance and enhance participation in GVCs
- GVCs change international trade's pattern and structure
 - The old mercantilist view 'exports are goods and imports are bad' to be counterproductive
 - Trade agreements have to cope with the new reality and to be able to facilitate the changes in order to be relevant.

Want to know more about implication of GVCs?

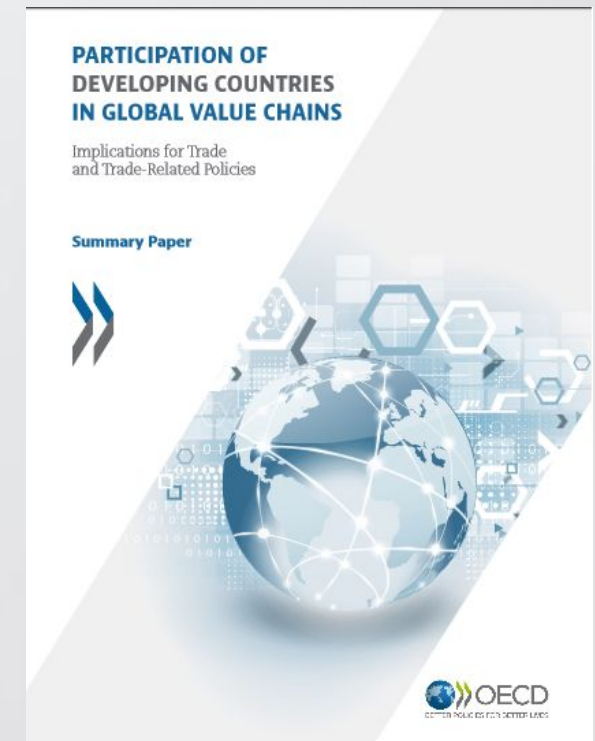
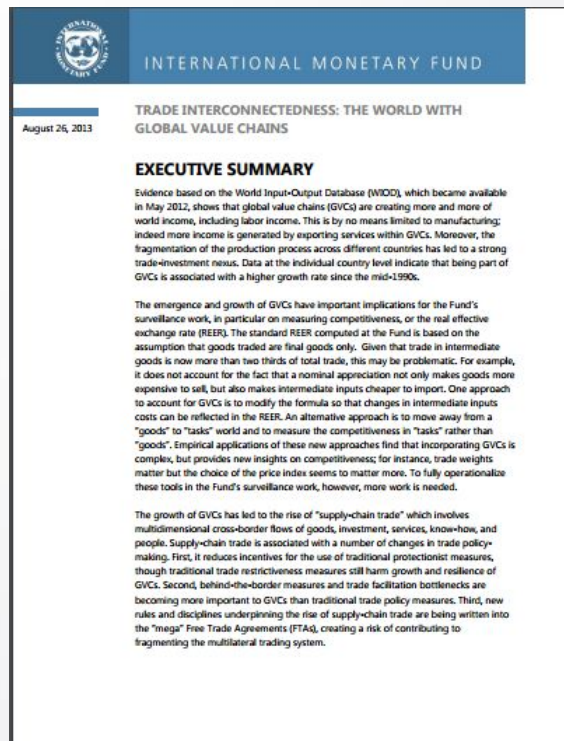


IMPLICATIONS OF GLOBAL VALUE CHAINS FOR TRADE, INVESTMENT, DEVELOPMENT AND JOBS

OECD, WTO, UNCTAD

6 August 2013

Prepared for the
G-20 Leaders Summit
Saint Petersburg (Russian Federation)
September 2013



GVCs: Investment and Trade Linkages

- Trade and investment are intertwined. FDI can be a substitute for and a complement to trade
 - E.g for trade substitution: a firm invests and produces goods in the foreign country to serve the consumers in that country
 - E.g for trade complementary: efficiency-seeking FDI, through a firm looks for the best (low-cost) location from which to produce efficiently and export their products

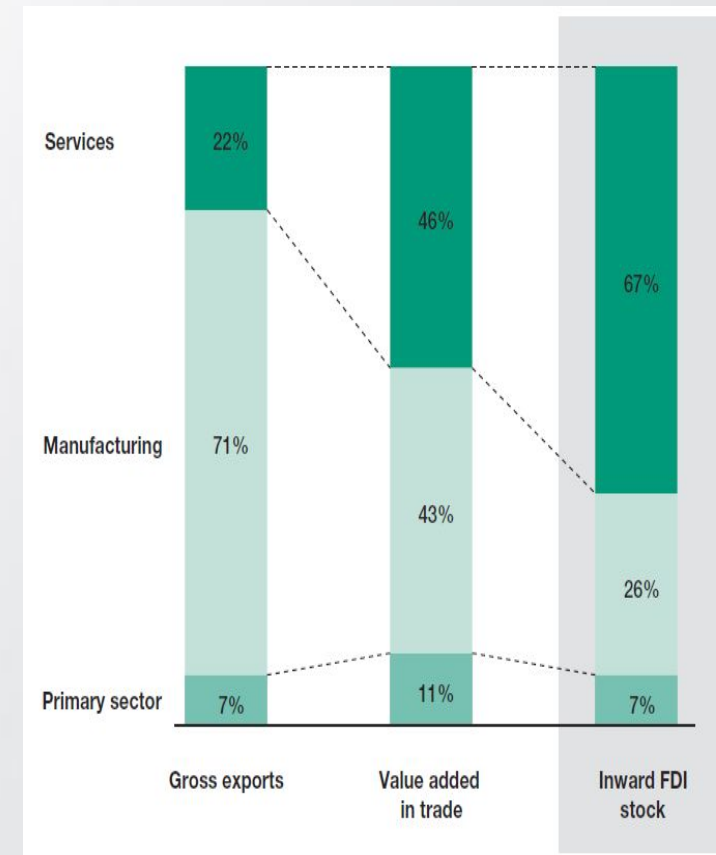
See: [Trade and Investment Linkages and Policy Coordination](#)

Linkages

- FDI generates trade flows globally. According to UNCTAD, 80% of global trade is linked to the international production networks of TNCs, either as intra-firm trade or through arm's length transactions involving at least one firm.
- TNCs' international production networks, where most trade takes place, are geared towards providing the value added inputs needed to generate trade.

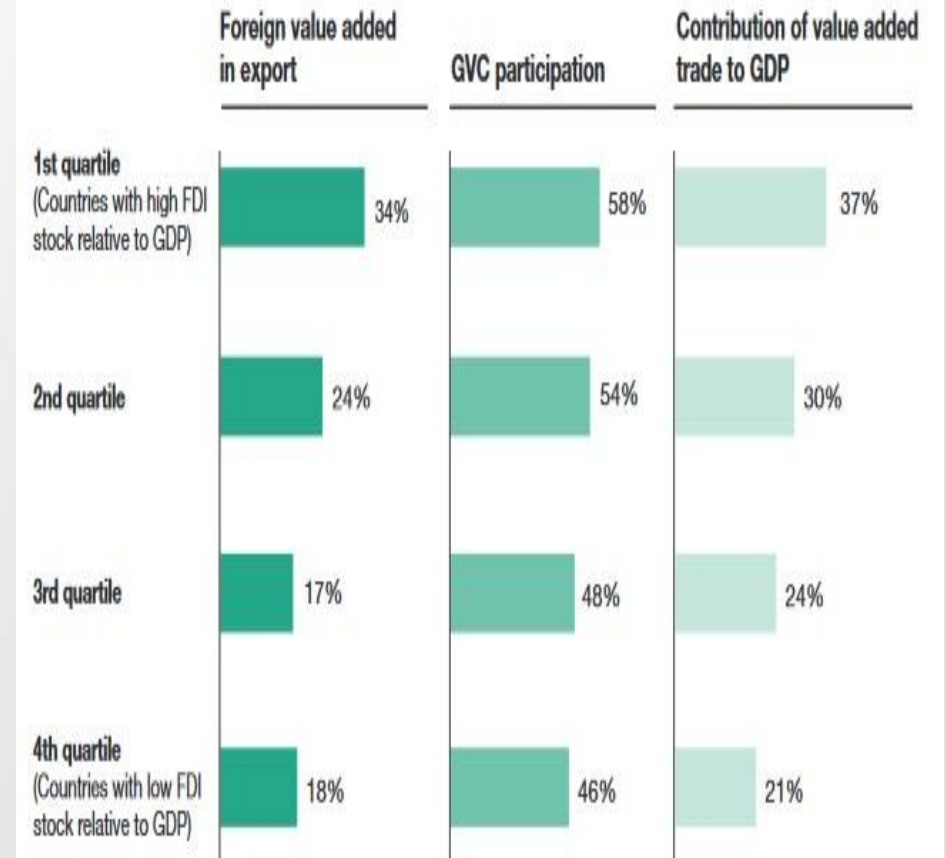
Extensive Use of Services Caused by GVCs

- Almost half of value added inputs (46%) to export is served by services-sector activities
- 67% of global FDI stocks is allocated in services sector activities



TNCs' presence and Country's GVC Participation

- A group of countries that have most FDI tend to have:
 - higher foreign value added in their exports
 - higher GVCs participation
 - a higher contribution of value added trade to their GDP



Source: UNCTAD, Global Value Chains and Development

Indonesia's Participation in GVCs

- Indonesia's participation is driven by downstream activities as other countries use Indonesia intermediates in their exports (e.g. commodities and natural resources)
- Mining and chemicals and minerals are two Indonesia's industries strongly involved in GVCs
- One of the examples is Indonesia's sectoral policy to restrict export of raw mineral which has far reaching implications in the downstream industries is being questioned by trading partners
- Majority of final demand for goods and services represents value added that has been created domestically
- Domestic value added (direct or indirect) represents final demand for a large number of products such as food, textiles, wood and so forth.

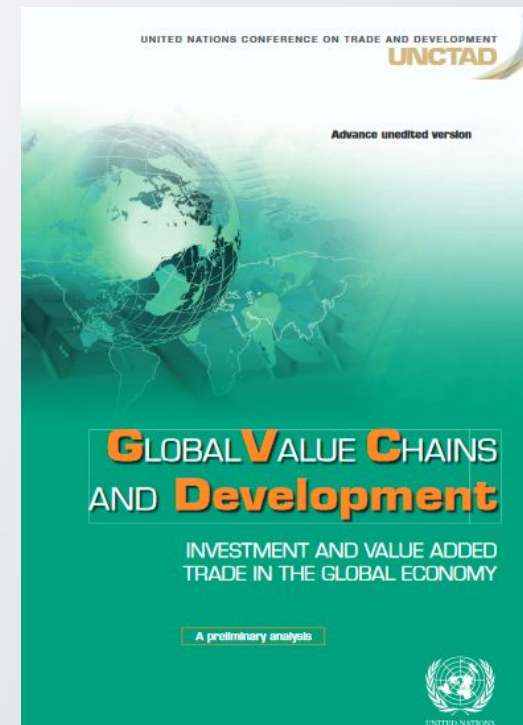
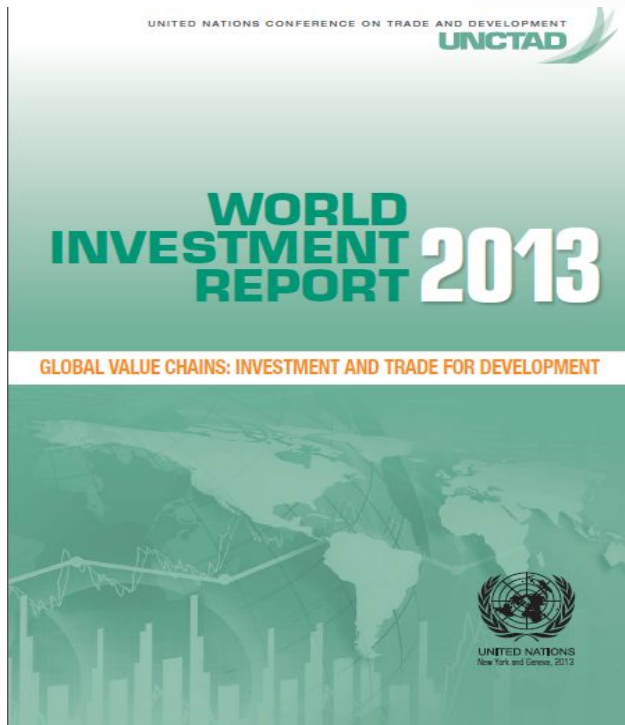
Want to read more about Indonesia's participation in GVCs?



Room for Improvement

- Infrastructure and energy
- Efficient bureaucracy, reduced red-tape and robust and transparent rule of law
- Improved inter-agency coordination
- Improved quality and reduced volatile risk of labor market
- Sustainable industrial policy

Other readings worth to consider





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