

Prof. Dr. Manfred Turban

Trade Risks and Risk Management in a Changing World Trading System

Development and Structure of World Trade

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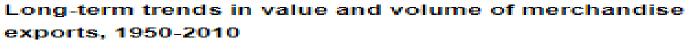
Development and Structure of World Trade

Trends in World Trade and the International Trade of EU and Germany

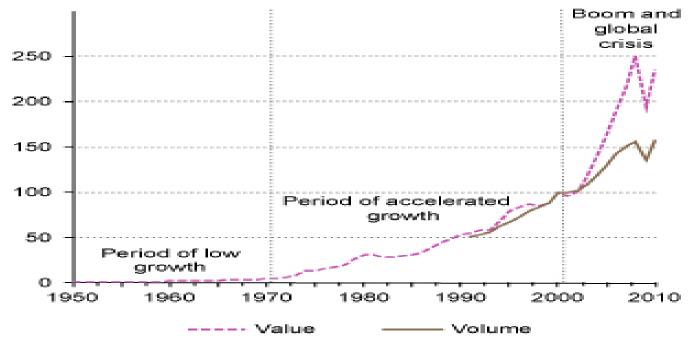
- World Trade and International Economic Relations since 1950 with high dynamics and transformation processes
 - Major steps in the development of international trade and the structural change
 - > Role of European Union and Germany in World Economy
- World economy highly interconnected via trade flows, international production, foreign direct investments and capital flows
- TEN POINTS to HIGHLIGHT MAJOR ASPECTS

Development and Structure of World Trade International trade as cross-border exchange of goods and commercial services

- World Trade in Goods and Commercial Services
- High growth rates / exceeding economic growth, World trade in 2018: value 25.3 trillion US-\$
- Long-term upward development of trade starting at a low level at the end of WW2



(Index numbers, 2000=100)



Source: UNCTAD secretariat calculations, based on UNCTADstat and CPB Netherlands Bureau of Economic Policy Analysis, World trade database

Development and Structure of World Trade

Point 1: Striking Increase of Volume and Value of International Trade

Years after WW2 marked a turning point in world trade

- Preceded by 40 years of decay
- Initiating a long-term upward development between 1970 and 2008.
 - moderate growth only between 1950 and 1970
 - acceleration of growth since the 1970s
 - boom between 2000 and 2008 (setback during world economic crisis)

Surge resulting from various factors, all contributing to fall of transaction cost

- liberalization in trade regulation
- technological process
- decreasing shipping cost

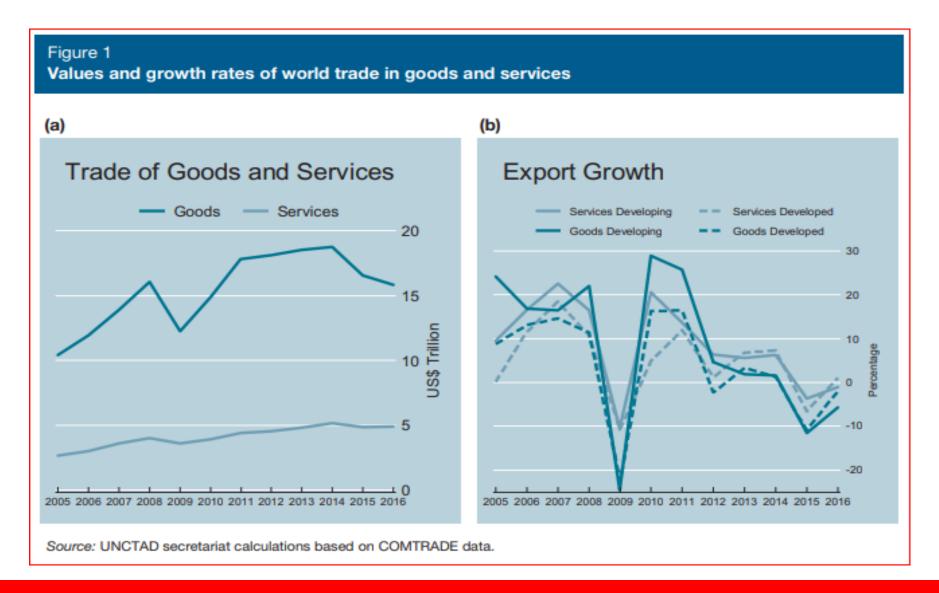
Upward development was shaped by world economic crisis of 2008-09

- Recovering swiftly because of coordinated efforts
- No return to the foregoing growth path
- Period of year-to-year fluctuations

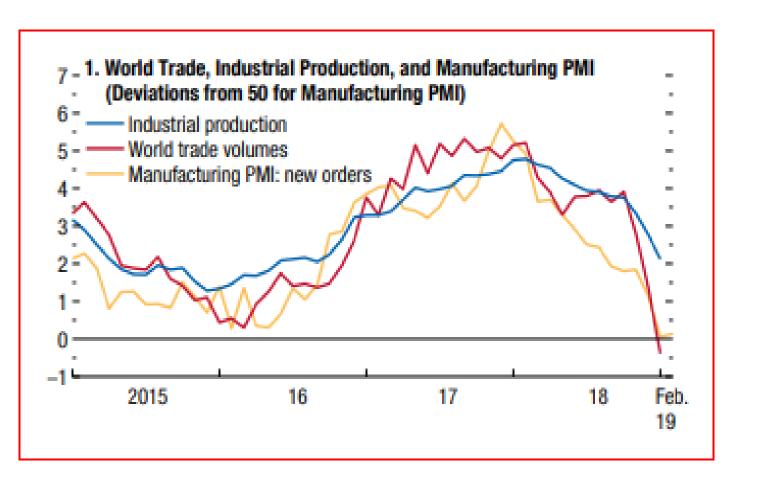
Shrinking trade volume since fall 2018

- Slowdown not only cyclical, but structural because of external factors
- Growing insecurity about trade outlook

World Trade in Goods and Services



Global Activity Indicators / April 2019, Source: IMF



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Point 2: Shrinking Dynamics of World Trade leading to loss of its stimulating role in the development of productivity and welfare gains

High growth of trade normally accompanied by increasing ratio trade to GDP

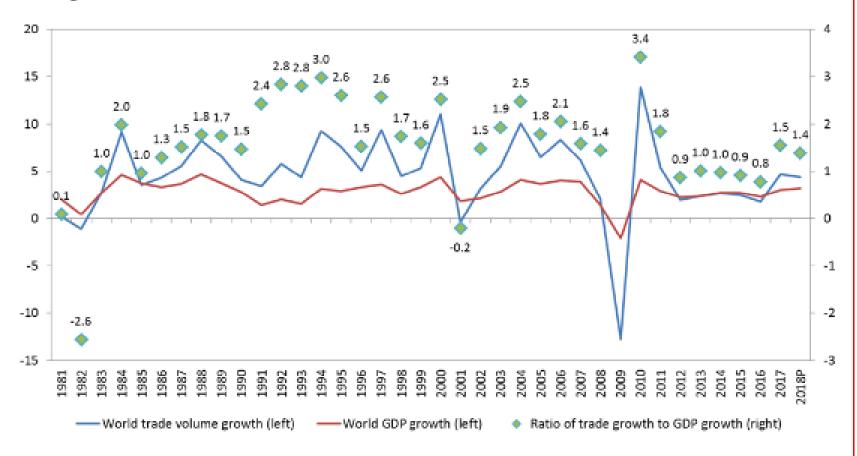
- ratio of world exports (or imports) growth to world GDP growth started to climb already in the 19th century (first climax in 1913),
- after a long decline since 1950s international trade growth again faster than income growth
- 2017: world exports represent 28.6 percent of world production
- ratio international trade growth / GDP growth indicates the development of the international division of labour
- ratio > 1 indicates increase of world productivity and world-wide welfare gains through trade

world trade growth has lost momentum since 2008

- World trade and world GDP growing only in tandem
- World trade growth has widely lost its lever function for increasing productivity and welfare
- in merchandise trade (without commercial services) shrinking trade volume

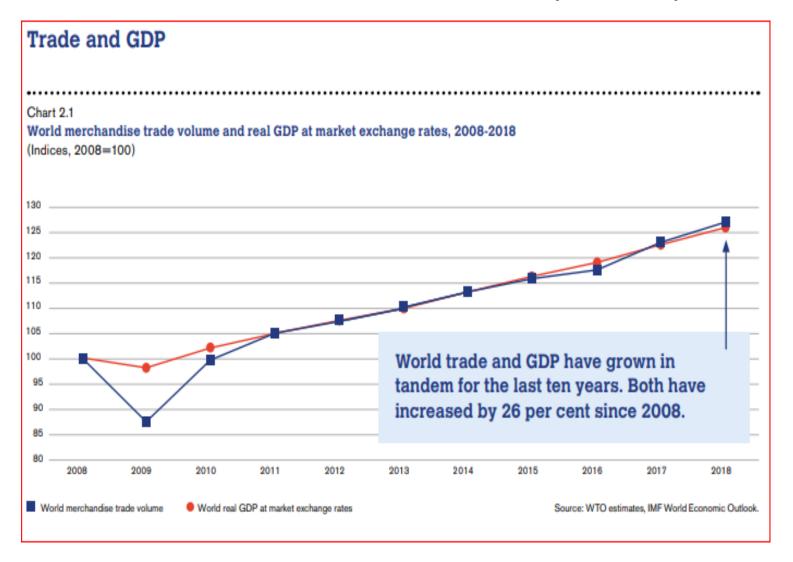
Chart 2: Ratio of world merchandise trade volume growth to world real GDP growth, 1981-2018

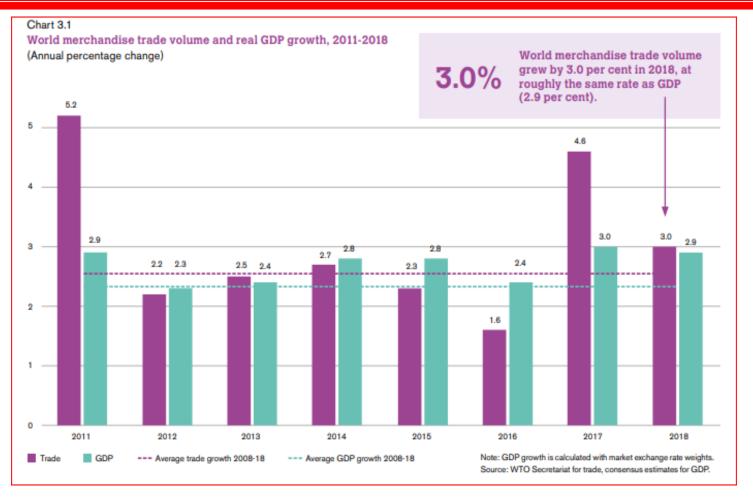
% change and ratio



Source: WTO and UNCTAD for trade, consensus estimates for GDP.

World Merchandise Trade Volume and real GDP (2008-2018) Source: WTO / IMF 2019





growth of World Merchandise Trade and World GDP in 2018 decreasing (trade volume 2018: -0.3 percent), Source: WTO 2019

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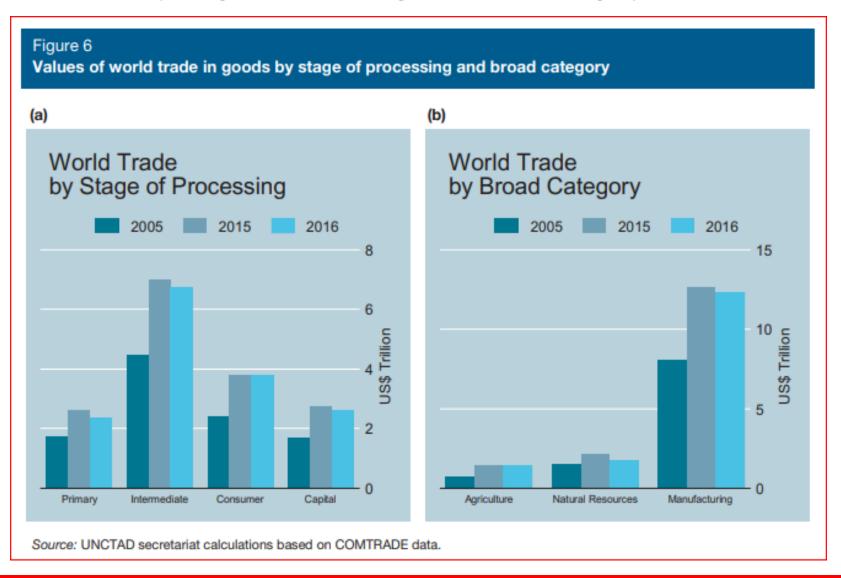
Point 3: Changing composition of the basket of goods and services in Cross-Border Trade

- Merchandise Trade: embraces trade with manufactured products and primary products
 - World merchandise trade export growth rate 2008-2018 20 percent (annual growth rate in value terms, 2.3 percent)
 - Manufactured products consist of finished and intermediate manufactures:
 - representing about 78 percent of world trade exports
 - traditionally in the center of attention of international trade theory
 - > Finished manufactured goods:
 - products passed through the full cycle of processing
 - decreasing share in international trade
 - > Intermediate (or semi-finished) manufactured goods:
 - products passed only through parts of the cycle of processing
 - share in international trade increasing significantly / triggered by development of value chains
 - Primary Products: raw materials
 - Strong price volatility
 - > Agricultural products: strong value increase during last decade
 - > Fuels and Mining products: shrinking value due to price decrease

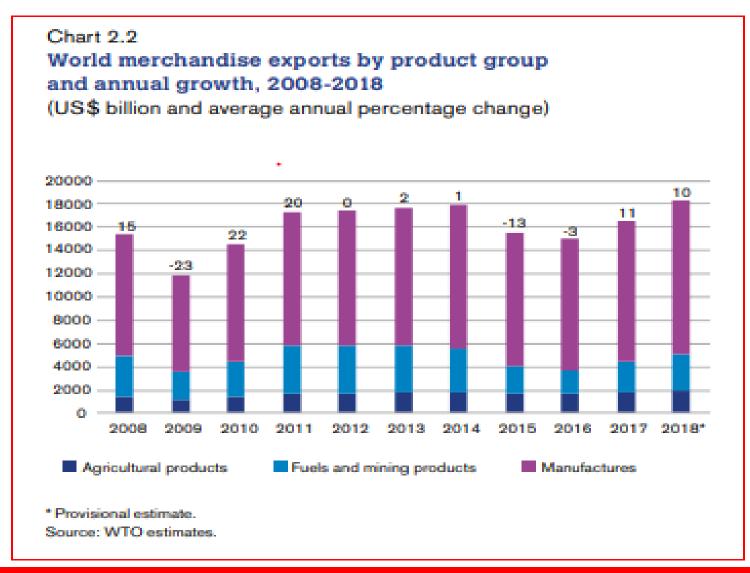
Development and Structure of World Trade

- Commercial Service Trade
 - World commercial service export growth 2008-2018 46 percent (in value terms, annual growth rate 4.3 percent)
 - Increasing share in world trade
- Opposing developments of Merchandise and Commercial Service Trade
 - Merchandise trade is losing market shares
 - Commercial Service Trade is gaining market shares

World Trade by Stage of Processing and Broad Category



Merchandise Trade: high share of manufactures

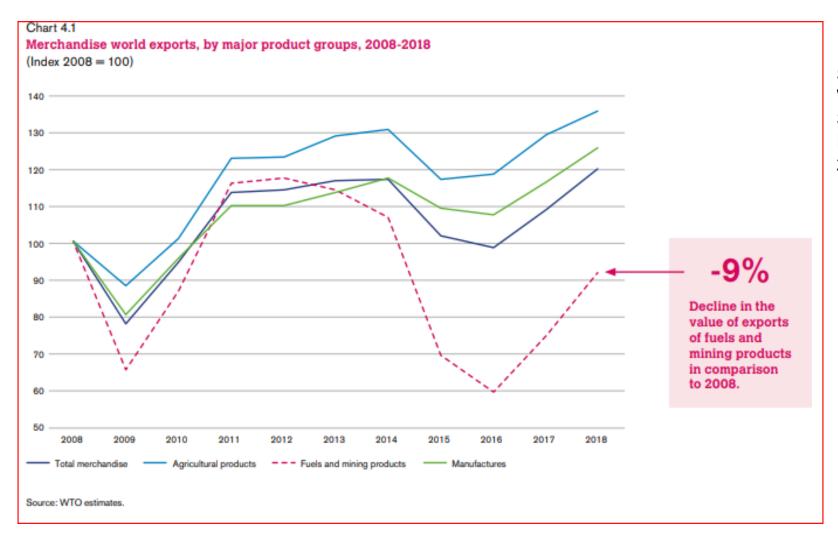


Merchandise Export Volume

with moderate growth rates

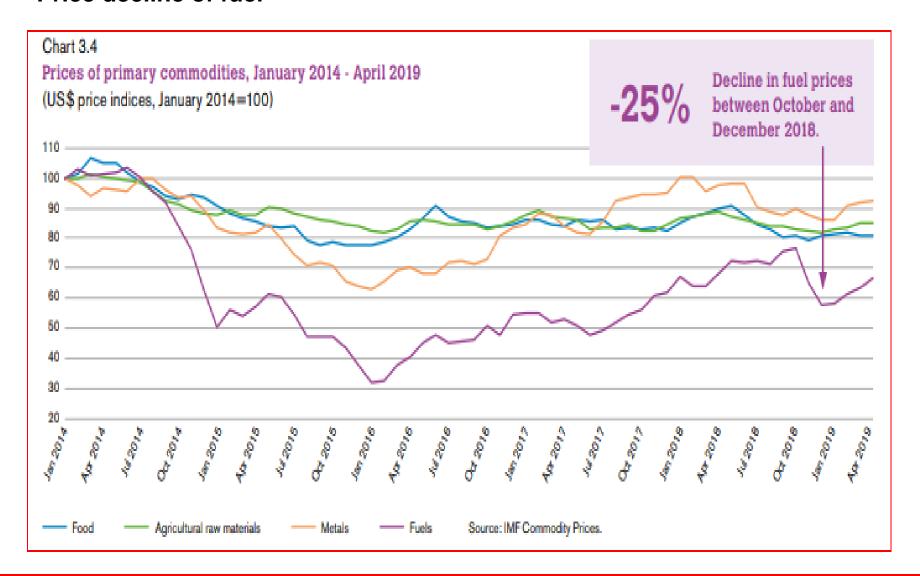
2018: 3,0 percent, Source: WTO

Merchandise world exports (by major product groups)

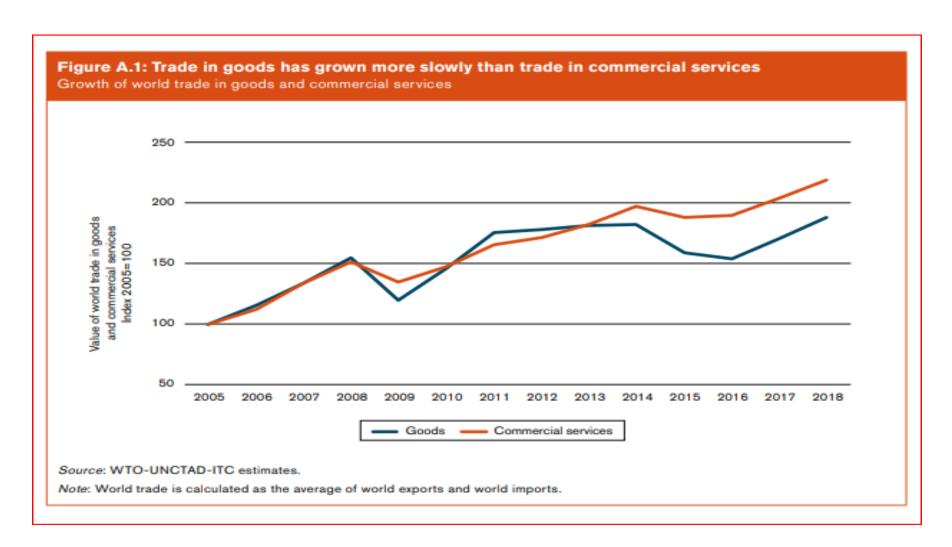


Source: WTO Statistical Review 2019

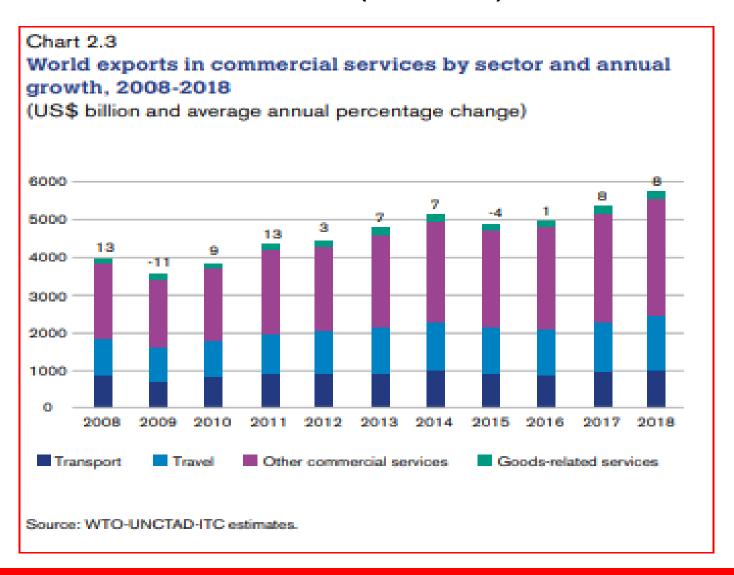
Price decline of fuel



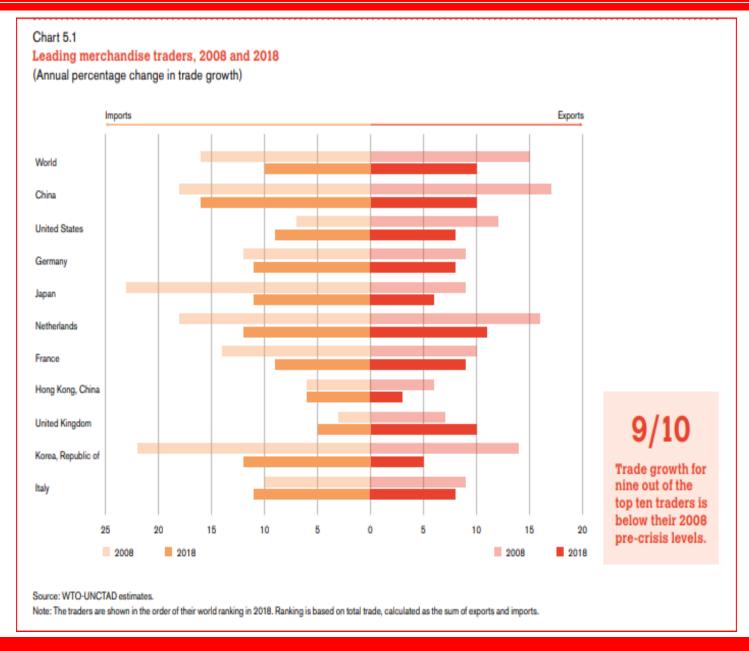
Trade in Goods and Commercial Services Source: WTO Trade Report 2019



Trade in Commercial Services (in bill. US \$): on the rise



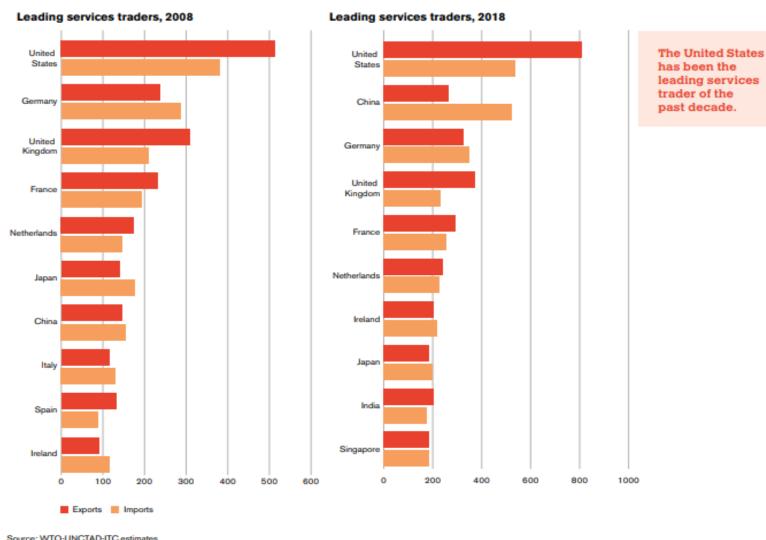
Source: WTO Statistical Review 2019



Leading countries in merchandise trade 2008 and 2018

Shrinking growth rates





Leading Traders in Commercial **Services** (by country)

rising growth rates

Source: WTO-UNCTAD-ITC estimates.

Note: The order in the chart reflects the economies' ranking in total trade in commercial services (exports plus imports) in the respective year.

Development and Structure of World Trade

Point 4: Participation rates of world regions and countries in international trade Main Players in international trade by world regions

- South and East Asia
- Europe
- North America

leading countries in merchandise trade

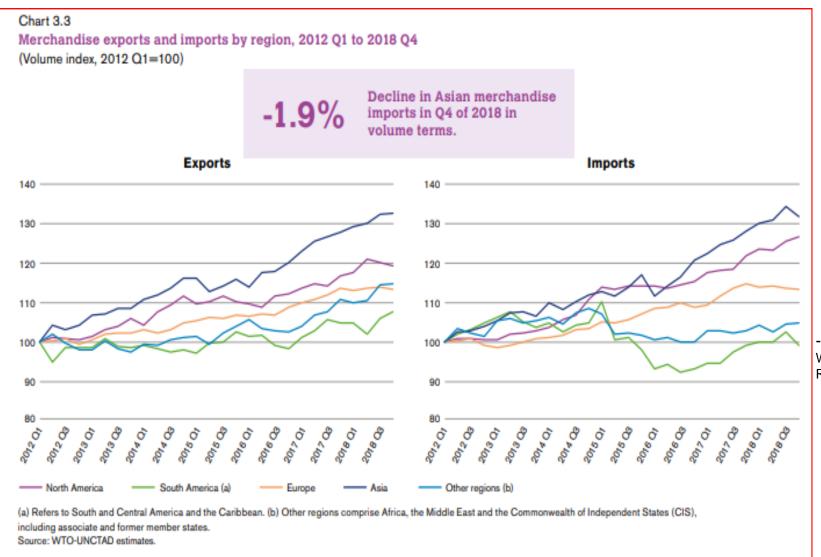
- China, USA and Germany
- China since 2009 leading country in merchandise exports
- Structural change leading to enhanced multipolarity in international trade

Export / GDP ratios increasing in most countries

■ USA: 1960 4 percent, 2016: 15 percent

Export / GDP 2016	In percent
China	20
Germany	46
EU	44
Netherlands	80

World trade by world regions



- Source: WTO World Statistical Report 2018

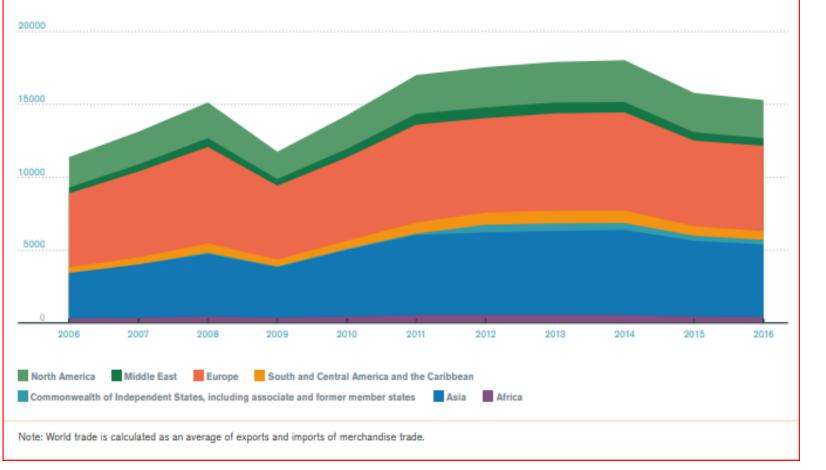
Share in World Trade by Regions

(value, in %) Source: WTO

Merchandise exports in % of world exports	1948	1953	1963	1973	1983	1993	2003	2014	2015	2016	2017	2018
North Amerika	28.1	24.8	19.9	17.3	16.8	17.9	15.8	13.5	14.4	14.3	13.8	13.6
South and Central Amerika	11,3	9,7	6,4	4,3	4,5	3,0	3,0	3,8	3,4	3,3	3.4	3.4
Europe	35.1	39.4	47.8	50.9	43.5	45.3	45.9	36.8	37.3	38.4	37.8	37.7
CiS						1,5	2,8	4,0	3.1	2,7	3.0	3.4
Afrika	7,3	6,5	5,7	4,8	4,5	2,5	2,4	3,0	2,4	2,2	2.4	2.5
Middle East	2,0	2,7	3,2	4,1	6,7	3,5	4,1	7,0	5,3	5,0	5.7	6.0
Asia	14.0	13.4	12.5	14.9	19.1	26.0	26.1	32,0	34.2	34.0	34.0	33.6

Merchandise trade of WTO members has increased to US\$ 15.4 trillion, up from US\$ 11.7 trillion in 2006.

World merchandise trade of WTO members, 2006-2016 (US\$ billion)



Value data

Source: WTO Statistical Review 2017

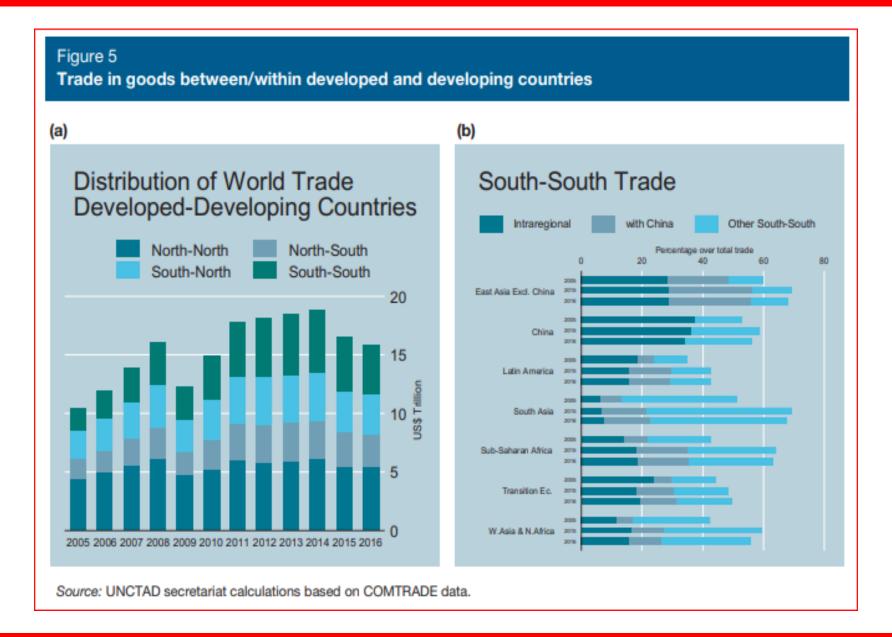
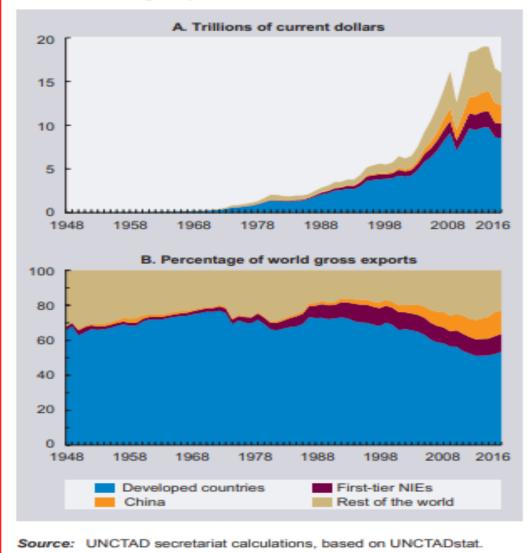


FIGURE 2.4 Total gross exports, selected country groups and China, 1948–2016



Share of Total Gross Exports, selected country groups and China (1948-2016)

increasing share of Chinese and NIE's exports at the expense of developed countries

Source: Unctad

Leading Countries in Merchandise Exports (Merchandise Trade in Current Prices) Source: WTO Statistical Report 1996 2000 2005 2008 2009 2010 2012 2013 2014 **Share in World** 2011 2015 2016 2017 2018 Exports in % (value) 1. China 2.9 3,9 7,3 8,9 9.6 10.4 10.4 11.1 11.7 12.3 13.8 13.2 12.8 12.8 2. USA 11,8 12,3 8,1 8,5 9.1 9.1 8.7 8.5 8,7 8,1 8,5 8,4 8,4 8,4 8.2 8.0 3. Germany 9,9 8,7 9,3 9,1 9,0 8,3 8,1 7,6 7,7 7,9 8,1 8.4 4. Japan 7,8 3.9 3.8 7,5 5,7 4,9 4,7 5,1 4,5 4,3 3,8 3,6 3,8 4.0 5. Netherlands 3,7 3,3 3,9 3,9 4,0 3,8 3,6 3,6 3,6 3,5 3,4 3.6 3.7 3.7 Korea 3,3 2,7 2,6 3,1 3,0 3,1 3.2 3.1 2,3 2,9 3,0 3,0 3,0 3,2 7. France 5,5 4,7 4,4 3,8 3,8 3,4 3,3 3,1 3,1 3,1 3,1 3,1 3.0 3.0 8. Hong Kong 4,6 3,2 1,4 2,3 2,6 2,6 2,5 2,7 2,8 2,8 3,1 3,1 2.9 3,1 9. Italy 4,8 3,3 3,7 3,5 3,2 2,9 2,9 2,7 2,7 2,8 2,8 2,9 2,9 2.8 10. UK 2.5 2.5 5,0 4,4 3,7 2,8 2,7 2,6 2,5 2,6 2,9 2,7 2,8 2,6 11. Belgium 3,2 2,6 3,1 3,0 2,7 2,6 3,2 2,4 2,5 2,5 2,4 2,6 2.4 2.4 12. Mexico 1,8 2,3 2.3 2,1 2,7 2,1 1,9 2,0 2,4 2,0 2,0 2,1 2,1 2.3 2.3 13. Canada 3,8 4,4 3,5 2,8 2,5 2,5 2,5 2,5 2,4 2,5 2,5 2,4 2.4 14. Russian Fed. 2.1 2.6 2.9 2.8 1.8 2.0 2.3 3,1 3.9 2.4 2.9 2.6 2.1 15. Singapore 2,2 3.0 2.8 2,2 2,3 2,2 2.2 2.2 2.2 2.3 2.1 2.1 2.1

1.4

1.6

1.9

2.0

1.9

1.6

1.7

2.0

1.9

Trade hub

0.8

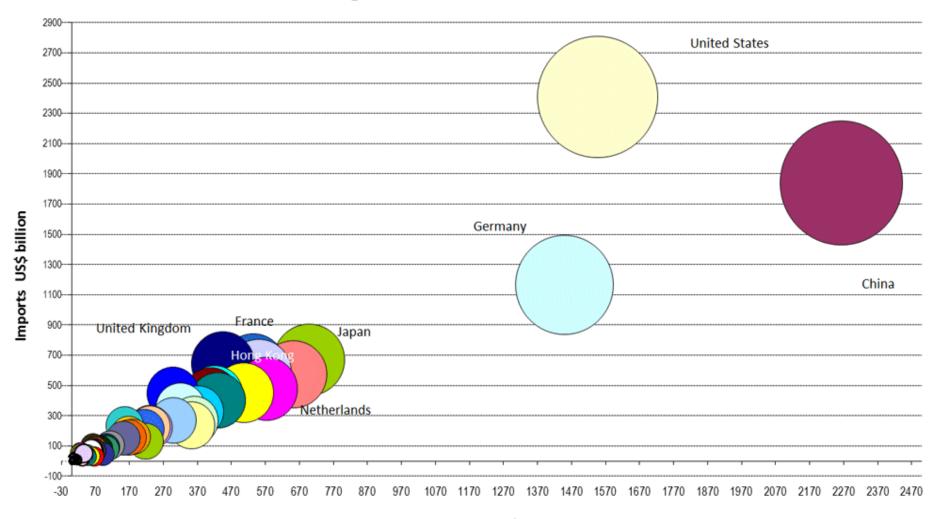
1.5

1.9

1.4

16. UAE

Leading economies of merchandise trade, 2017

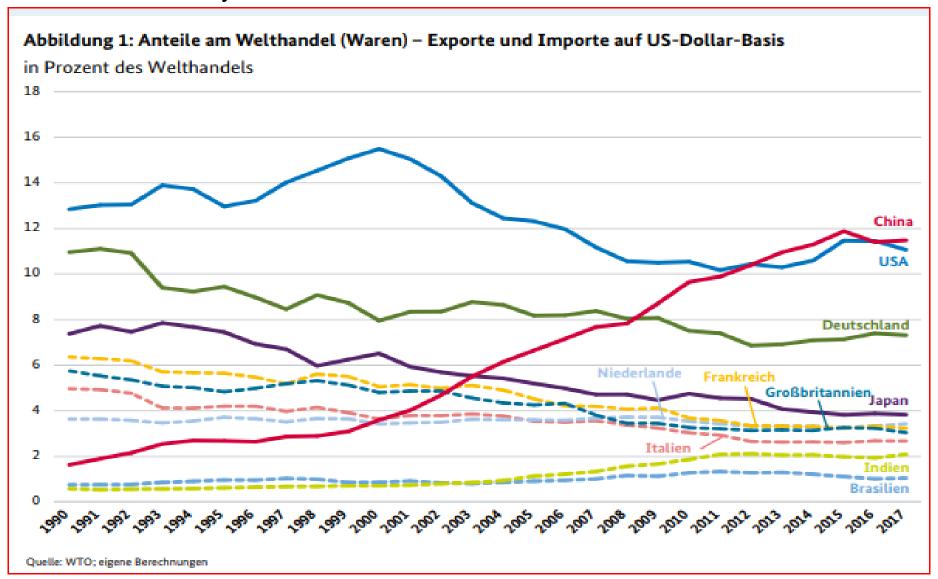


Exports US\$ billion

Source: WTO 2018

https://www.wto.org/english/news_e/pres18_e/pr820_e.htm

Share in World Merchandise Trade (export and import sales) by major countries Source: German Ministry of Economic Affairs



Development and Structure of World Trade

Point 5: Multinational Corporations (MNEs) and the Surge of Foreign Direct Investments (FDI) in World Trade

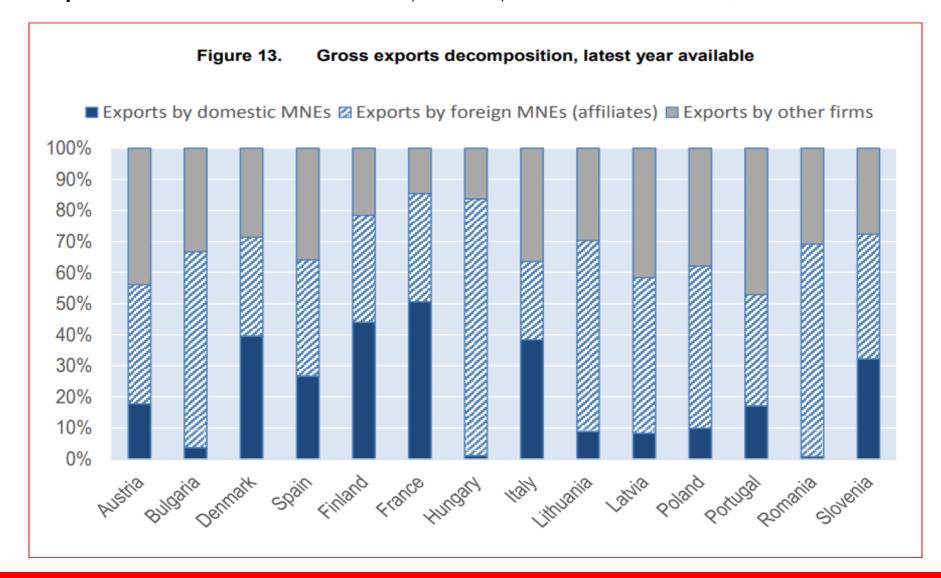
- **FDI** is an investment made by a firm or individual of one country into business interests located in another country.
 - investor establishes foreign business operations or acquires foreign business assets, including establishing ownership or controlling interest in a foreign company
 - FDI distinguished from portfolio investments in which an investor merely purchases equities of foreign-based companies"
- Multinational Corporations (also MNEs) shifted part of their production abroad
 - MNEs set up manufacturing subsidiaries mainly in countries which provide cost advantaged relative to the country of origin
 - > Emergence of MNEs as *leap forward* in economic globalization
- fragmentation of production processes as precondition of re-organization of production processes into physically and geographically separated locations across firms and countries
 - development of new technologies, mainly in the field of information and communication as well as production technology
 - options created to shift labour-intensive stages of production to low-cost countries which provided competitive advantages and triggered new types of trade flows

Development and Structure of World Trade

FDI: investments by a firm into business interests located in another country

- Globalization by FDI
- Alternative mode of entry in international markets
- Two types of FDI
 - **Horizontal FDI**: direct investment in host country <u>identical</u> with activities of parent company at home (subsidiaries as integrated plants)
 - > substitute for exports
 - market proximity considerations, circumvention of protection barriers,
 - > FDI and trade flows interdependent
 - <u>Vertical FDI</u>: direct investment in host country <u>different</u> to activities of parent company at home
 - different stages of production in different countries
 - processing mainly labor-intensive intermediate products which are re-imported to the country of origin to be integrated in the production of final products of the parent company
 - > shift of production is taking advantage of lower cost in the host country.
- MNEs frequently using vertical and horizontal FDI simultaneously

Importance of MNEs in World Trade (Year 2014) Source: Cadestin / OECD, 2018



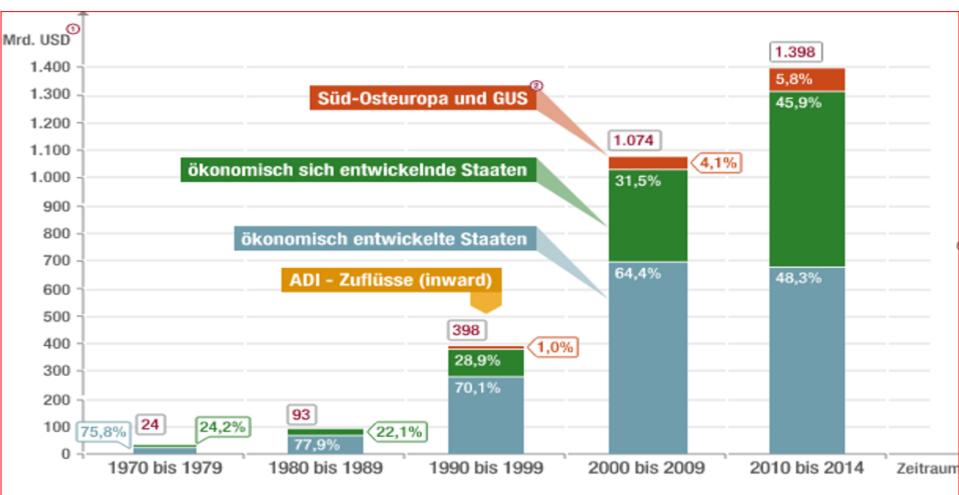
Development and Structure of World Trade

Development of Foreign Direct Investment (FDI)

- FDI rather insignificant before 1980
- Strong growth since 1990 continuing till 2010
 - > Emergence with vertical FDI
 - MNEs conducted cross-border shifts in production, mainly to countries with relatively low production cost
 - MNE setting-up internal international value chains (aimed at cost reduction and other types of advantages)
- Stepwise development of MNE activities in different target areas
 - Vertical FDI in neighbor countries
 - Vertical FDI in emerging and developing countries
 - Vertical FDI in transformation countries.
 - Offshoring in further country groups with specialization in branches
 - FDI from emerging countries to low-cost countries
- Inward FDI of multinationals stimulated by emerging countries through creation of free trade zones (export processing zones)
 - free trade zones provide free trade conditions, a liberal regulating regime and tax reductions for defined periods
 - Investments from advanced economies attracted
 - Vertical FDI accelerated industrialization processes in emerging countries
 - Initially mainly export-oriented, later-on also serving local markets

FDI per year

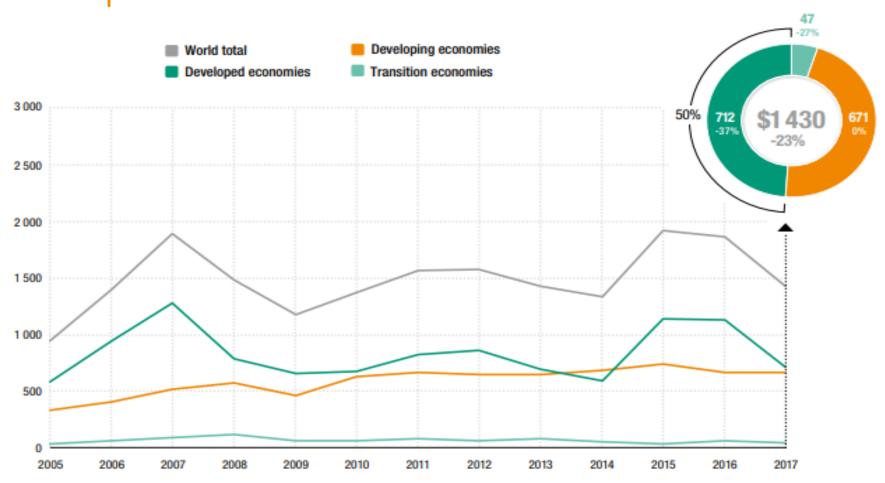
(in absolute numbers, share in pc, 1970-2014)



Quelle: United Nations Conference on Trade and Development (UNCTAD): Online-Datenbank: UNCTADstat (Stand: Januar 2016)

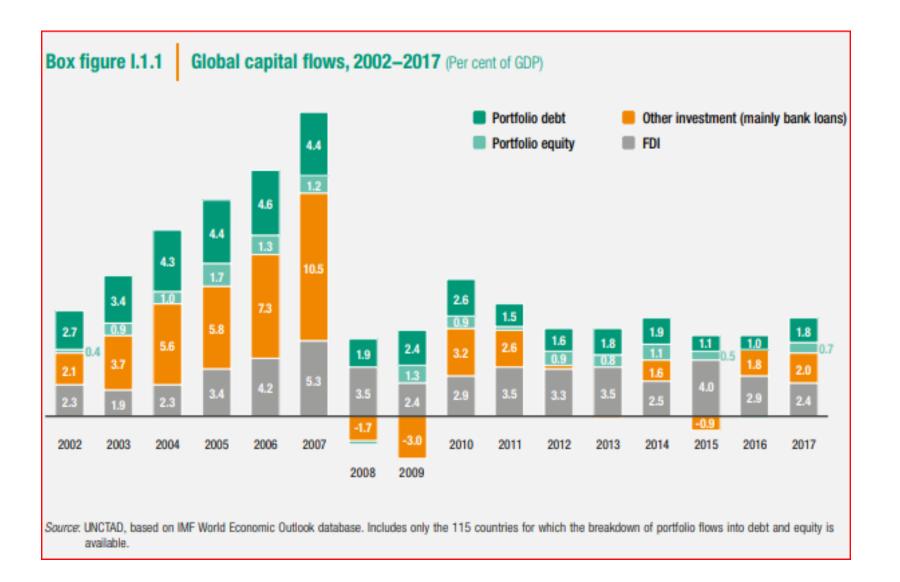
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Figure I.1. FDI inflows, global and by group of economies, 2005–2017 (Billions of dollars and per cent)

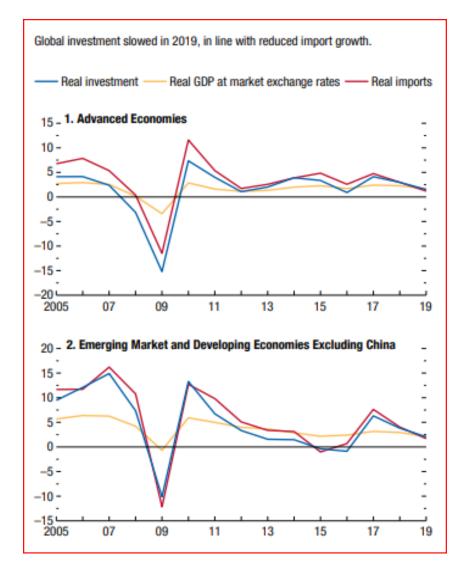


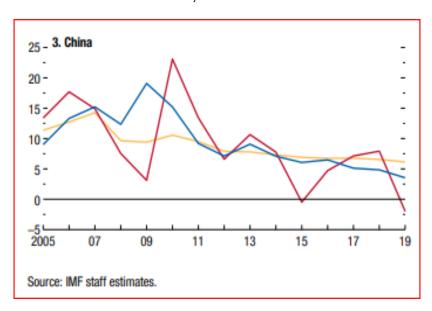
Source: UNCTAD, FDI/MNE database (www.unctad.org/fdistatistics).

World Investment Report 2018 Investment and New Industrial Policies



Global Investment and Trade Source: IMF World Economic Outlook, October 2019





Development and Structure of World Trade

Vertical FDI triggered technological and economic catch-up processes in emerging countries

- Local companies sprang up or extended operations
- Acceleration of industrialization processes in emerging countries
- Settings in manufacturing industry, occasionally focused in electronics and communication branches
- Features of emerging economies resemble increasingly to advanced economies
- > Far-reaching reversal in trade relations induced

Surge in world-wide FDI peaked in 2007

- After downturn of 2008-09 shrinking growth rates
- since 2015 decrease of FDI, 2017 stark reduction (mainly in advanced economies)
- **Reasons of downturn**: rates of return strongly diminishing / growing instability in trade relations / stricter investment control regimes for takeovers

Development and Structure of World Trade

Point 6: Development of Global Value Chains (GVC)

Global Value Chains (GVC) describe production processes where the different stages are located across different countries

- closely connected with vertical FDI
- Stages: product development, processing, marketing and distribution

GVC strongly shaping international trade flows

- Strong trend towards international dispersion of value chain activities
- Restructuring operations and optimizing of processes by outsourcing and offshoring of activities
- Optimizing processes by locating individual or multiple stages across different site

GVCs emerging as internal supply chain networks of MNEs

- Established between controlled manufacturing facilities in different countries
- International production in part offshored to overseas countries with lower production cost
- Offshoring as shifting of entire stages of production for manufacturing of goods and components from an affiliated subsidiary
- International dispersion of value chains embracing production, design, marketing and distribution activities
- Vertical FDI enables cost advantages and use of further competencies

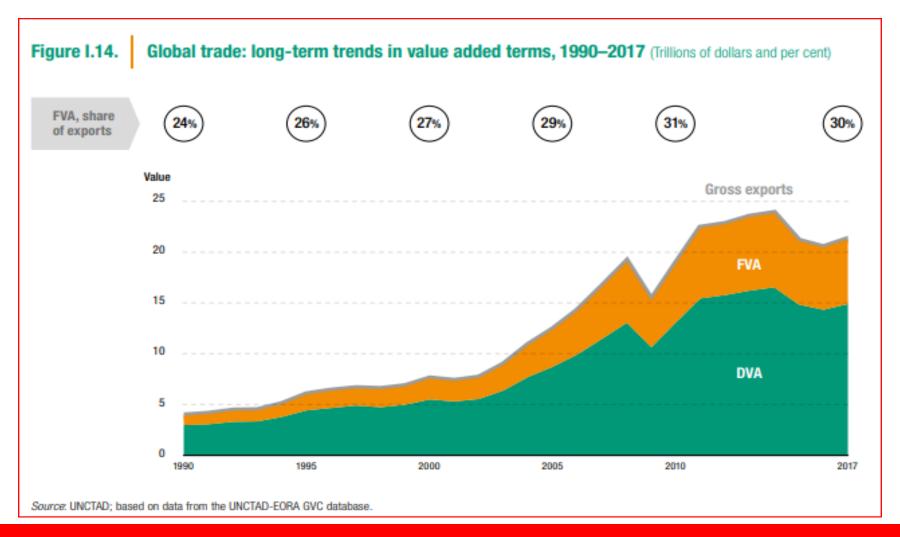
Development and Structure of World Trade

Development of internals GVCs

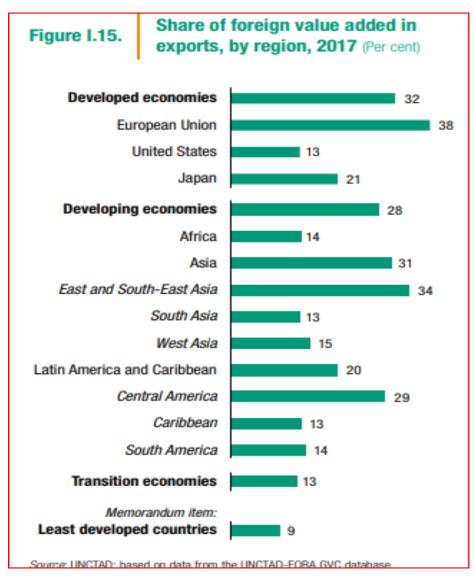
Strong increase of internal cross-border trade flows of MNEs in international trade

- Productivity gains of MNEs, growth of sales and value added of MNE foreign affiliates
- since 2011 growth rate fell significantly
 - growth of internal GVC coming to an end
 - loss of momentum in long-term FDI trend

Development of Foreign Value Added (FVA) compared to Domestic Value Added (DVA) as growth indicator of Global Value Chains (GVC)



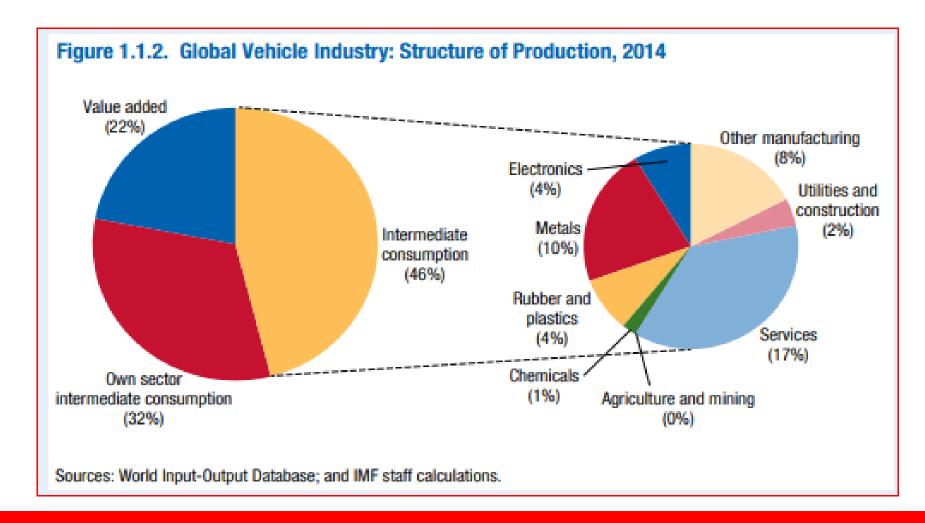
Foreign Value Added (FVA)



EU with highest FVA share in exports (38pc), while in USA share relatively low (13pc)

- Europe is using cost advantages of foreign production by informal networks more than other regions (leading to competitive advantages)
- East and South-East-Asian countries also very advanced

Global Value Chains in the World Automobile Industry 2014 Source: IMF, World Economic Outlook October 2019.



Development and Structure of World Trade

Point 7: Contractual Forms of Global Value Chains (networks)

- GVCs not based an FDI but on contractual forms of cooperation
- Shift of international production from tangible to intangible value chains
 - Intangible value chains based on cooperation within informal network structures
 - arms length-contracts with independent partners
- Advantages: flexibility, investment load and risks decentralized
- Outsourcing and offshoring of activities
 - Outsourcing as acquisition of parts and components processed by an unaffiliated party
 - Offshoring as sourcing of finished and semi-finished goods from an unaffiliated supplier by shifting entire stages of production abroad
- Development of informal GVCs
 - high rates of growth contributed to expanding trade
 - "asset light" international production trend by flexible informal networks
- Indicators of development
 - Increase of Foreign Value Added (FVA)
 - FVA = value of imported goods and services incorporated in a country's exports
 - FVA to Gross Exports 1990-2010 gradually rising relative to domestic value added, peaking in 2010-12, with subsequent stagnation
 - Relative high growth rates of royalties and licensing fees compared to trade in goods

Development and Structure of World Trade

Types of GVCs participation:

 Upstream integration: capture value added from previous and production related stages of the value chain and procure inputs from other countries (components, intermediary products)

- Important role in all international value chains
- Degree of inclusion differs strongly among country groups (relatively high in EU and East- and South–East Asia)
- Downstream integration: capture value added from distribution and marketingrelated stages of the value chain and delivering inputs to other countries' exports
 - Degree of inclusion differing by country groups

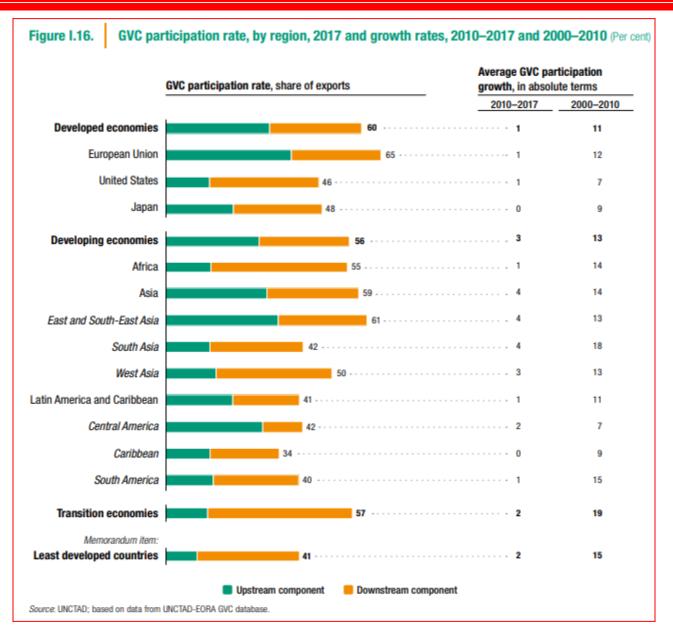
Development of GVC participation growth rate

- Rising in the first decade of millennium (2000-12)
- Subsequent stagnation
- MNEs responsible for 50 percent of world's exports (19 percent domestic MNEs / 31 percent by foreign affiliates)

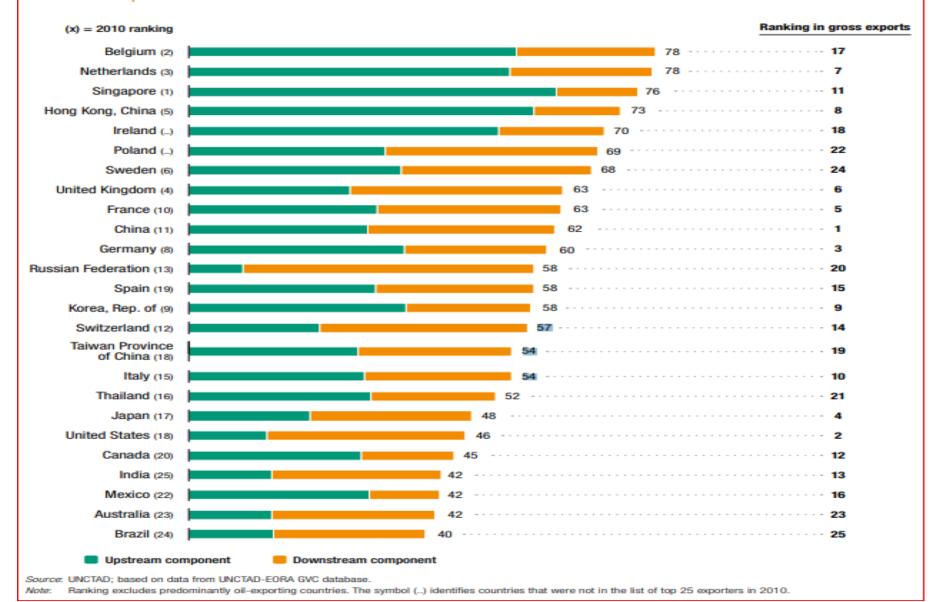
GVC participation:

- Highest shares (mainly capturing upstream components)
- EU
- East and South-East Asia
- Lowest shares

 (mainly capturing downstream components)
- USA
- Africa
- Transition economies
- Least developed countries
- Participation growth diminishing



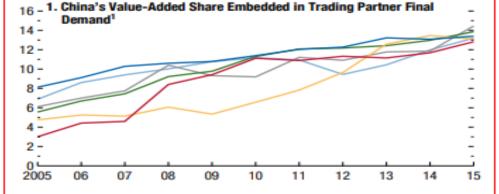


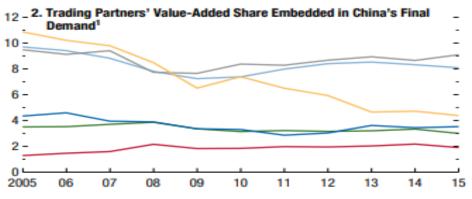




Input-output linkages point to ever-more-interrelated technology, including the US technology sector's increasing dependence on imports of value added from Chinese producers.







Source: Organisation for Economic Co-operation and Development, Trade in Value Added database.

¹Computers, electronics, and electrical equipment.

Tech Hardware Supply Chains Input-Output Linkages

China and its Trade Partners

Source: IMF

World Economic Outlook

October 2019

Development and Structure of International Trade

Point 8: Growing Multipolarity of International Investment

Directions of FDI flows by target regions

- Initially mainly horizontal FDI in advanced economies (mainly transatlantic)
- From 1980s onwards predominantly vertical outward investments by corporations from advanced economies towards other advanced economies
 - > after fall of "iron curtain" in Europe Eastern Europe as target countries for vertical FDI
- after 2000 strong increase of outward FDI from advanced economies to emerging markets and developing economies
- meanwhile also FDI from emerging markets to other emerging markets and advanced economies (USA: strong inward and outward investment flows)
- New trends emerging:
- Increasing multipolarity of inward and outward direct investments
- Leading role of USA in both directions
- outward and inward FDI flows
 - Outflows of FDI from capital-rich advanced economies, but also from emerging markets
 - Inflows directed mainly to emerging countries, but also to advanced economies
 - 2017: total inward FDI in developing and transition countries nearly equal to FDI inflow in advanced economies
- Number of participating countries increasing: FDI growingly dispersed world-wide, both on the inflow as to the outflow side

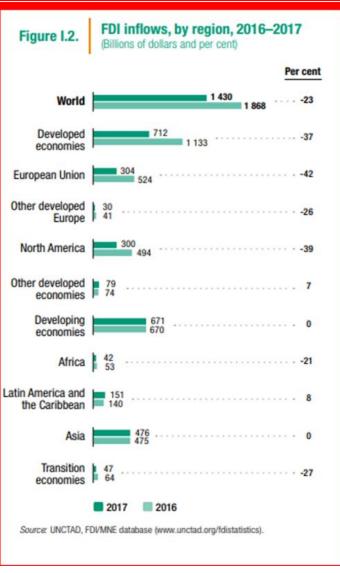


Table I.1. Inward FDI rates of return, 2012–2017 (Per cent)						
Region	2012	2013	2014	2015	2016	2017
World	8.1	7.8	7.9	6.8	7.0	6.7
Developed economies	6.7	6.3	6.6	5.7	6.2	5.7
Developing economies	10.0	9.8	9.5	8.5	8.1	8.0
Africa	12.3	12.4	10.6	7.1	5.4	6.3
Asia	10.5	10.8	10.6	9.9	9.5	9.1
East and South-East Asia	11.5	11.8	11.7	11.0	10.3	10.1
South Asia	7.2	6.7	6.1	5.5	6.4	5.7
West Asia	5.5	5.4	4.9	4.6	4.6	3.4
Latin America and the Caribbean	7.9	6.7	6.6	5.2	5.3	5.6
Transition economies	14.4	13.9	14.6	10.2	11.1	11.8

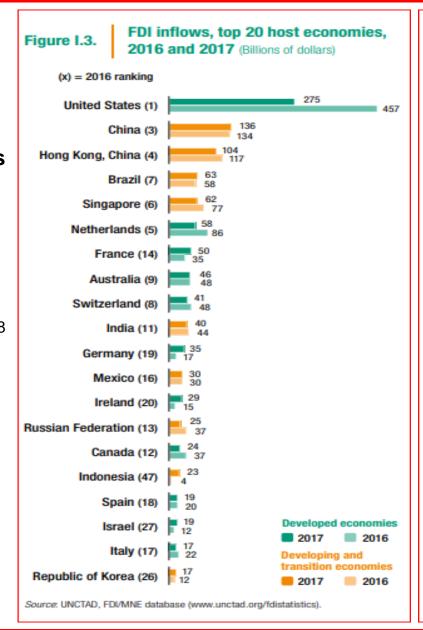
Source: UNCTAD based on data from IMF Balance of Payments database.

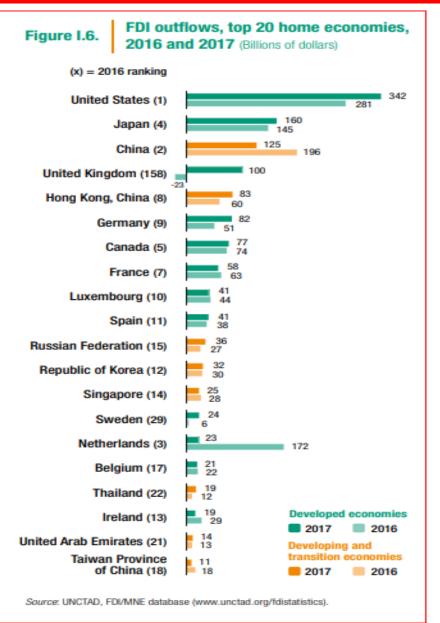
Note: Annual rates of return are measured as annual FDI income for year t divided by the average of the end-of-year FDI positions for years t and t-1 at book values.

Increased FDI inflows in developing countries, relatively higher rate of return Source: UNCTAD

FDI inflows and outflows by country

Source: UNCTAD World Investment Report 2018





Development and Structure of World Trade

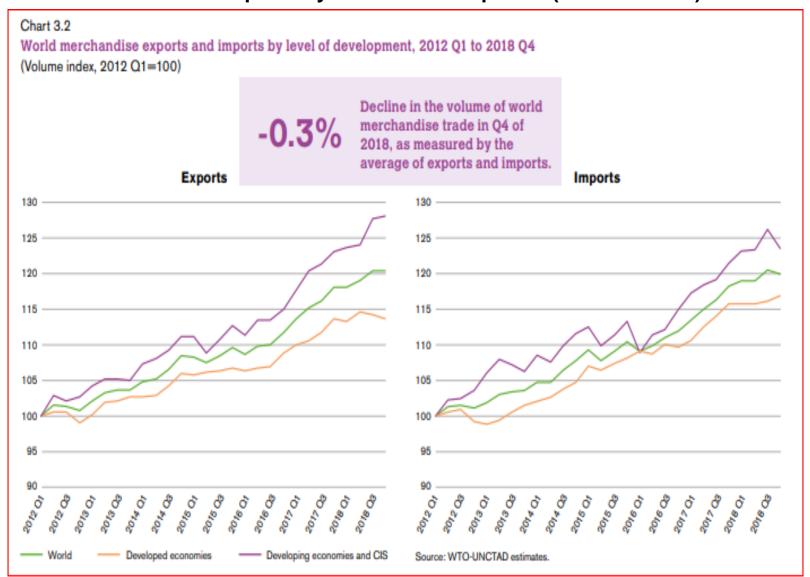
Point 9: Redirection of Trade Flows in World Trade

- International Trade Exchange between countries
 - based on comparative advantages between countries resulting form availability of natural resources specific climate conditions
 - Countries specialize by offering country specific products due to specific conditions, special competences and qualifications or cost differences
 - Specific forms of trade exchange between advanced and developing countries
- Traditional international trade exchange:
 - Advanced economies' industries exporting mainly manufactured goods to developing countries in exchange to Developing countries exporting raw materials to advanced economies
 - > since industrial revolution overwhelming part of trade exchange carried out **among** advanced economies and consisting primarily of manufactured goods (similar but slightly different products traded, intra-industry trade, "North-North-Trade")
- Substantial differences of labor and production cost as major motivation for trade exchange between advanced and emerging economies
 - diminishing shipping and other transaction cost
 - cost advantages by relocation of production through FDI
 - Exports from emerging and developing countries to advanced economies stimulated ("South-Nord-Trade")
 - > Exports from emerging countries to other emerging or developing economies stimulated ("South-Nord-Trade")

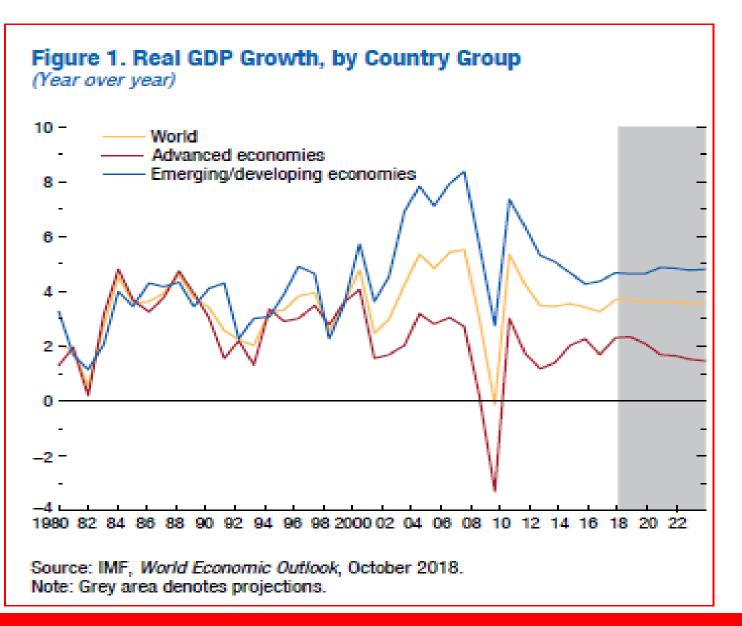
Development and Structure of World Trade

- Current international trade exchange patterns
 - Part of Emerging and Developing countries turned into industrialized countries exporting increasingly manufactured goods to all economies
 - MNE (multinational enterprises) created subsidiaries in emerging countries based on fragmentation of production processes
 - Stimulation of industrialization of emerging countries which provide increasingly similar features to advanced economies
 - > Evolution of GVC effect trade flows and extend trade volumes further by enhancing the international division of labor through trade of intermediated products

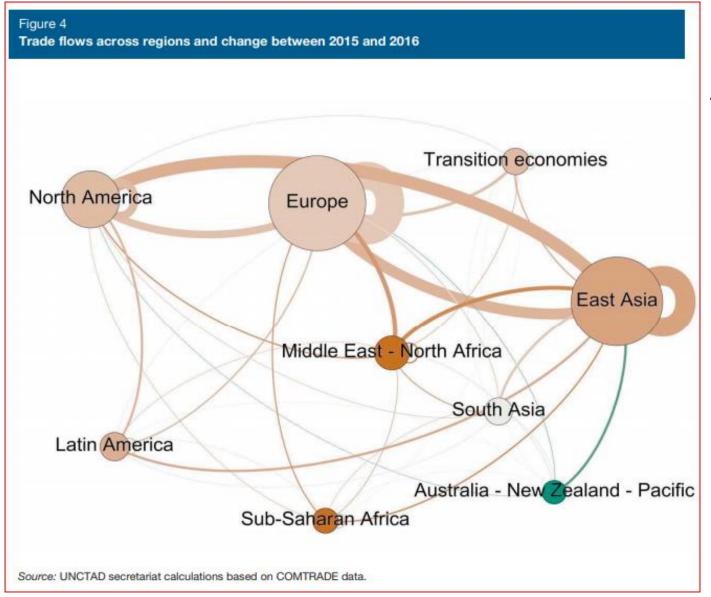
World merchandise exports by level of development (volume index)



- Source: WTO



GDP growth (Emerging economies in advance of Advanced economies)



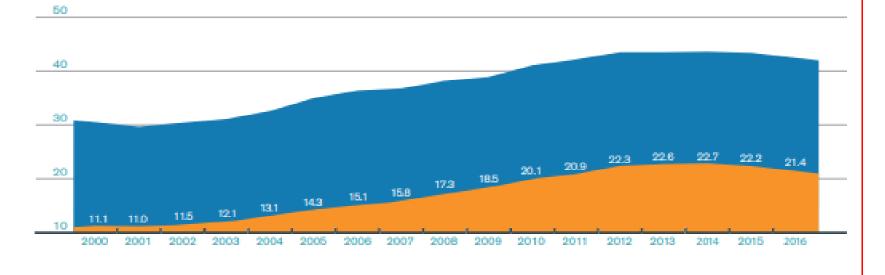
Trade Flows across Regions 2015-16

Developing economies exported 43 per cent of world merchandise exports in 2016 and 2017.

Chart 2.15

Share of developing economies in world exports, 2000-2016

(Percentage share)



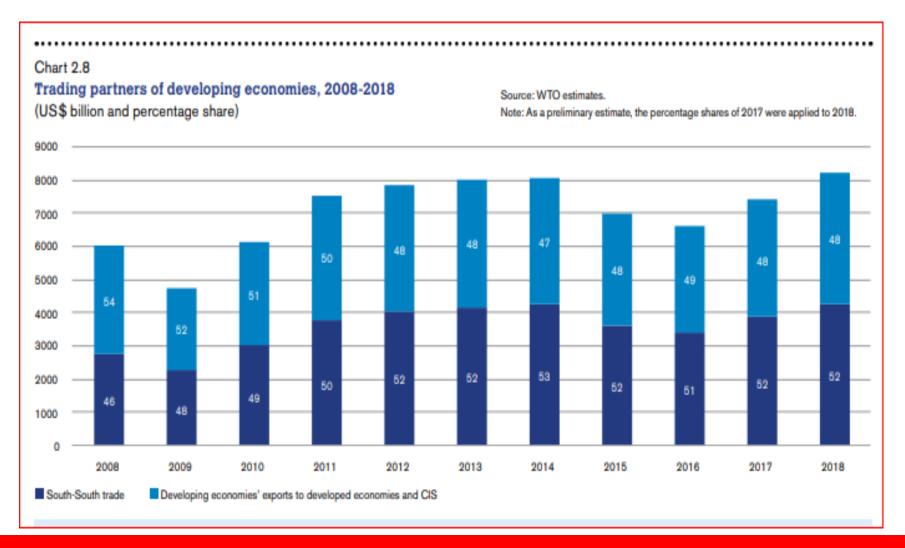
South-South trade as a share of total world exports

Note: 2017 data of South-South trade to be available in October 2018.

Developing economies exports as a share of total world exports

Source: WTO estimates.

International Trade of Developing Economies (WTO, World Trade Statistical Review 2019)



Development and Structure of World Trade

Changing patterns of trade flows result from diversity of procurement strategies at the firm level in cross-border business

- Operation as exporters or entering foreign markets via integrated foreign subsidiaries or offshoring part of the value chain
- Offshoring companies rely on affiliated suppliers or cooperate with arm's length suppliers
- Outsourcing production of components while others integrate (at home or abroad)
- Choice of option highly influenced by specific regulation

Cross-border organizational options of supply chains of manufacturing companies in a globalizing world economy (selection!)

- Product development and processing in country of origin (coo) → export of final product
- Product development and processing in coo → export to sales platform → sale of final product within importing country and export to third countries
- Product development in coo and <u>processing</u> in coo and in third country likewise
 (outsourcing of steps of value chain to <u>subsidiary</u>) → export of final product to all
 countries <u>including coo</u>
- Product development in coo and <u>processing completely in third country</u> (outsourcing to subsidiary) → sale of final product by export to all countries including coo
- Product development in coo and <u>processing</u> completely by a foreign firm in third country (international production through licensing or contract manufacturing) → export to all countries <u>including</u> coo
- Combinations of different options
- Outsourcing and internalization options
- Costs and benefits of both options

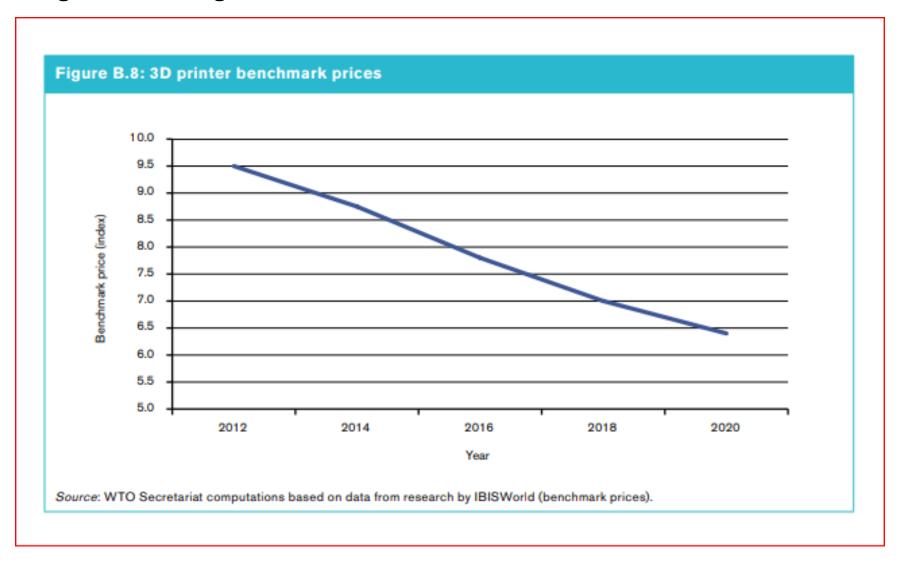
Development and Structure of World Trade

Point 10: Disintegration of global trade and growing integration on a regional level ("Regionalization")

Two developments in parallel:

- Increased disintegration of global trade leads to de-globalization
- Growing integration of a regional level leads to economic regionalization
- trade growth outside of the same region and the same Trade Bloc compromised
- Present development of world trade is reversing economic globalization in merchandise trade
 - ratio trade growth to income growth declining
 - merchandise trade in volume diminishing
 - o retreating trend concerns all elements of international trade and investment
 - Globalization provides significant signs of stagnation and decline
- Globalization in commercial services still advancing
- Reasons of downward development of global merchandise trade
 - Global differences of labor and production cost less significant (comparative cost advantages of emerging market countries shrinking)
 - new technologies emerging in advanced countries substitute labor intensive processes and facilitate application-specific local prototype processing (e.g. 3D-Printer technology available at diminishing cost)

Digital technologies in international trade Source: WTO-Trade-Report 2018



Development and Structure of World Trade

 Lower production cost in emerging countries no longer offset shipping cost in international trade

- Distant locations in manufacturing conduct to increased competitive disadvantages because of inflexibilities in delivery
- World-wide aggravating protectionism particularly felt in merchandise trade
- Consumer demand tends to prefer local and regional products for ecological reasons

From Global to Regional Integration in international trade:

- Cost-driven comparative advantages of international trade with emerging market countries recurrent and losing ground in merchandise trade
- regional trade within major trading blocs increasingly supported by economic factors
- Cross-border value chains favor increasingly geographical proximity and binding agreements of trade blocs
- ➤ Three major regional trading blocs: EU, NAFTA / USCMA, ASEAN (SEA)
- Trade Blocs for smaller economies particularly relevant since they can compensate disadvantages in relation to big economies which capture trade-related value added domestically
- GVC in regional trade blocs mainly steered by companies from advanced economies through trade hubs (highest share of FVA in exports)

Development and Structure of World Trade

Major Trading Blocs

- European Union:
 - Highly integrated markets and shared institutional settings
 - Strong regional value chains with high FVA share (38pc)
- NAFSA / USCMA
- Integration in East and South-East Asia (ASEAN)
 - Rising regionalization
 - Singapore and Hongkong as trade-hubs

Short-term development determined by further slow-down of world trade growth

- Further retreat of merchandise trade
- Determining risk factors in world trade:
- Geopolitical risks
- Growing trade tensions
- Economic instability and macroeconomic risks
- Trade and Investment climate determined by a general atmosphere of uncertainty in international trade operations
- Regionalization envisaged as Second-Best Option to achieve gains in trade

Recent development of world trade (Source: WTO, WTO Trade Barometer)

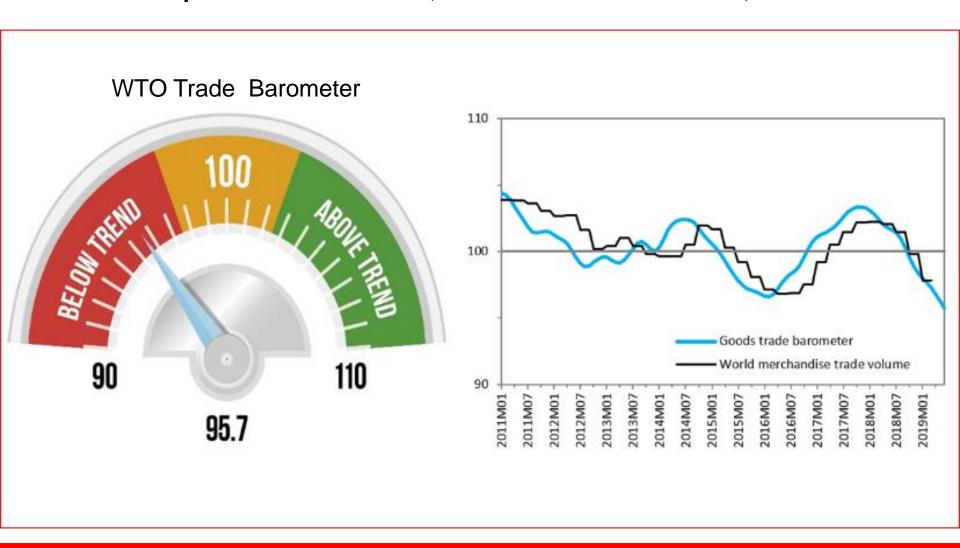
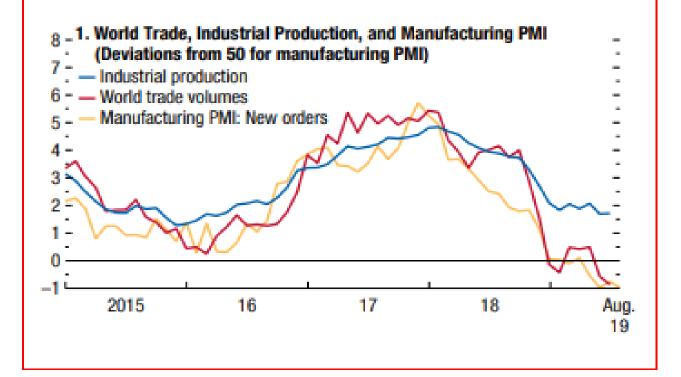


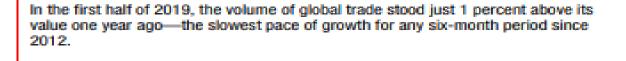
Figure 1.1. Global Activity Indicators

(Three-month moving average; year-over-year percent change, unless noted otherwise)

Over the past 12 months there has been a geographically broad-based, notable slowdown in industrial output.



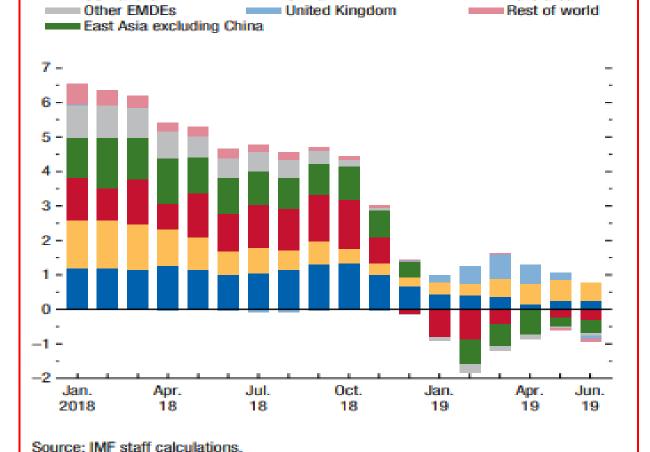
Euro area



China

USA and CAN

USA = United States.

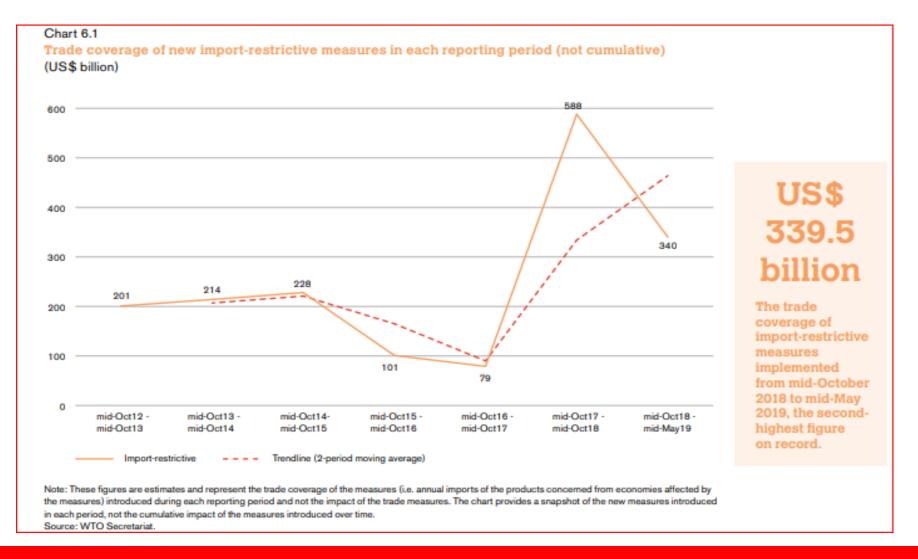


Note: CAN = Canada; EMDEs = emerging market and developing economies;

Contributions to world imports

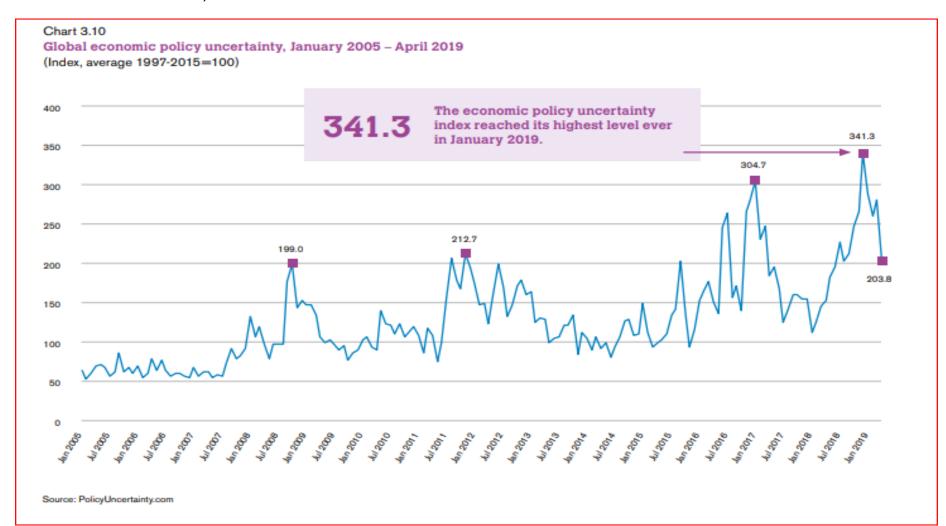
Source: IMF World Economic Outlook October 2019

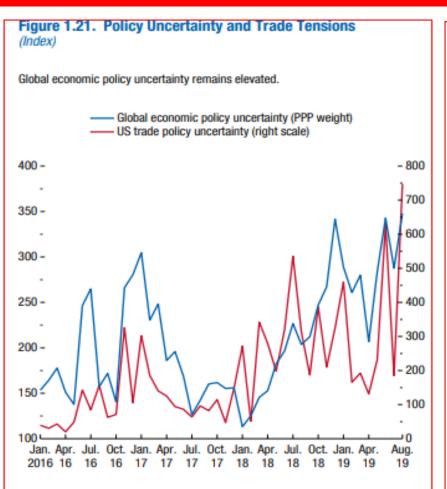
Trade coverage of new import-restrictive measures per period



Global Economic Policy Uncertainty Index

(based on the frequency of phrases related to uncertainty in press accounts), Source: WTO Statistical Review 2019)



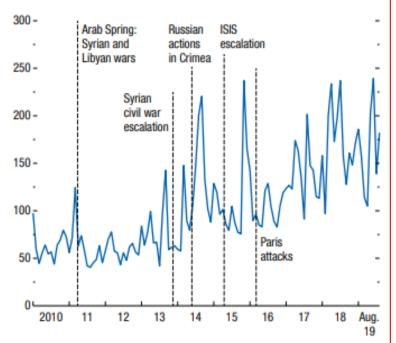


Source: Baker, Bloom, and Davis (2016).

Note: Baker Bloom Davis Index of Global Economic Policy Uncertainty (GEPU) is a GDP-weighted average of national EPU indices for 20 countries: Australia, Brazil, Canada, Chile, China, France, Germany, Greece, India, Ireland, Italy, Japan, Korea, Mexico, the Netherlands, Russia, Spain, Sweden, the United Kingdom, and the United States. Mean of global economic policy uncertainty index from 1997 to 2015 = 100; mean of US trade policy uncertainty index from 1985 to 2010 = 100. PPP = purchasing power parity.



High geopolitical tension raises the risk of severe humanitarian costs and intensifying economic strains in some regions.



Source: Caldara and Iacoviello (2018).

Note: The Caldara and lacoviello Geopolitical Risk (GPR) index reflects automated text-search results of the electronic archives of 11 national and international newspapers. The index is calculated by counting the number of articles related to geopolitical risk in each newspaper for each month (as a share of the total number of news articles) and normalized to average a value of 100 in the 2000–09 decade. ISIS = Islamic State.

Policy Uncertainty, Trade Tensions and Increasing Geopolitical Risks

Source: IMF WEO Oct 2019

Sources

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