

***University of Cassino***

***Economics and Business***

**Academic Year 2019/2020**

**International Economics  
International Trade  
(Introduction and key facts)**

***Prof. Maurizio Pugno***

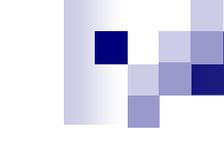
**University of Cassino**

# Organization of the course

- International Economics consists of two parts:
  - Trade (prof. M. Pugno)
  - Finance (prof. F. D'Orlando)
- The text is the same: Gerber, J., *International Economics*, seventh global edition, 2018
- The exam is written and combines the two parts (6 cfu)

# Organization of International Trade

- Lectures: Tuesday 3-5pm, classroom 0.04
- Chapters of Gerber, J.: 3-8,
- Other complementary but essential material is provided during the lectures, and then online
- Prof. Maurizio Pugno:
  - office hours: Tuesday 5-7pm, room 9.22 during the semester 24 Sept. 2019 – 3 Dec. 2019
  - email: [m.pugno@unicas.it](mailto:m.pugno@unicas.it)
  - url: <http://mauriziopugno.com/en/didattica/>



# Topics of International Trade

- the gains from trade when countries differ in productivities or factor endowments;
- the consequences on wages and jobs;
- how the economies of scale makes timing important in trade;
- how transport costs make location of production important in trade;
- international regulation of trade;
- reasons and consequences of tariff and quota policies;
- the problem of standards in the international trade;
- Global Value Chains.



# Introduction

- International trade arises from the opportunity to exchange market goods (and services) between residents of different countries.
- Advantages:
  - increase in variety of consumption,
  - access of key inputs for production,
  - lower prices of imported goods,
  - specialization in producing exports,
  - increase in productivity,
  - and hence economic growth.

# Domestic Trade Vs. International Trade

<b>FACTORS</b>	<b>DOMESTIC TRADE</b>	<b>INTERNATIONAL TRADE</b>
<u>Currency</u>	Same	Different
<u>Markets</u>	Limited market due to limit in population	Broader markets
<u>Language and Culture Barriers</u>	Speaks and practice same culture	Communication challenges due to language and cultural barriers

<b>FACTOR</b>	<b>DOMESTIC TRADE</b>	<b>INTERNATIONAL TRADE</b>
<u>Mobility in factors of production (land, labor, capital and entrepreneur)</u>	Free to move from one state to another within the same country	<b>Quite restricted</b>



# Charts on the stylized facts on International Trade

- Major focus on Goods
- Minor focus on Production  
Factors: capital and labour

# How is international trade measured?

- The main measure of openness to trade of a country or groups of countries:

$$\text{Trade to GDP ratio} = \frac{\text{Exports} + \text{Imports}}{\text{GDP}}$$

- Or:  $\text{Exports}/\text{GDP} > 0$

$$\text{Imports}/\text{GDP} > 0$$

- While:  $\text{Exports} - \text{Imports} = \text{net Exports}$   
(either  $> 0$  or  $< 0$ )

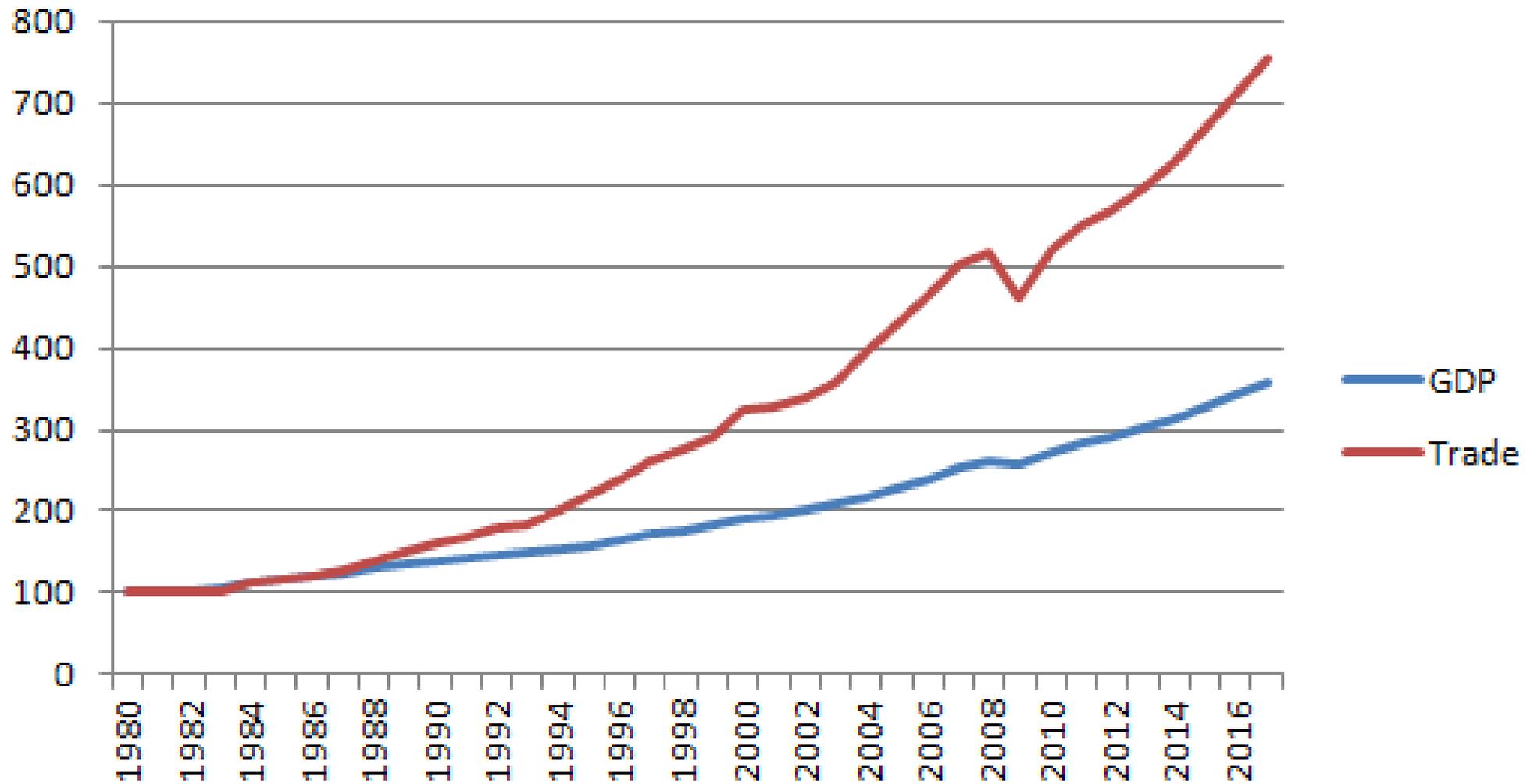
# Globalization over 5 centuries (1500-2011)

Shown is the sum of world exports and imports as a share of world GDP (%)

The individual series are labeled with the source of the data



## World GDP and Global Trade (1980 = 100)



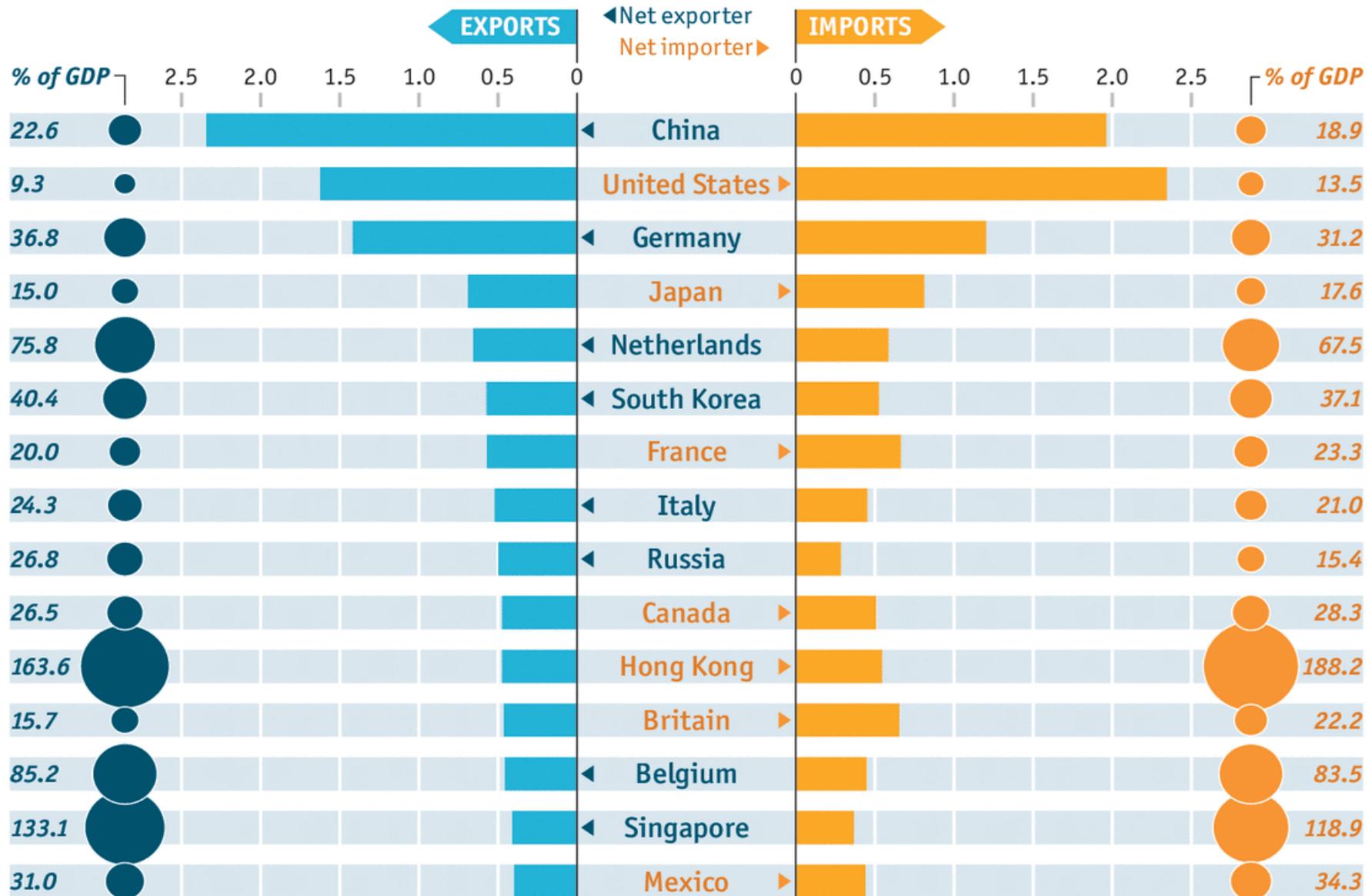
Source: IMF WEO (October 2012)

# Comments on the charts

- International trade is not a new phenomenon, but its *rapid increase* is.
- International trade may *reverse* toward countries' autarky
- International trade and GDP *grow together*
- International trade *increases more* than GDP (trade globalization).
- These two latter facts suggest that international trade positively affects GDP.

# Trade flows

Largest global exporters, 2014, \$trn



Source: IMF

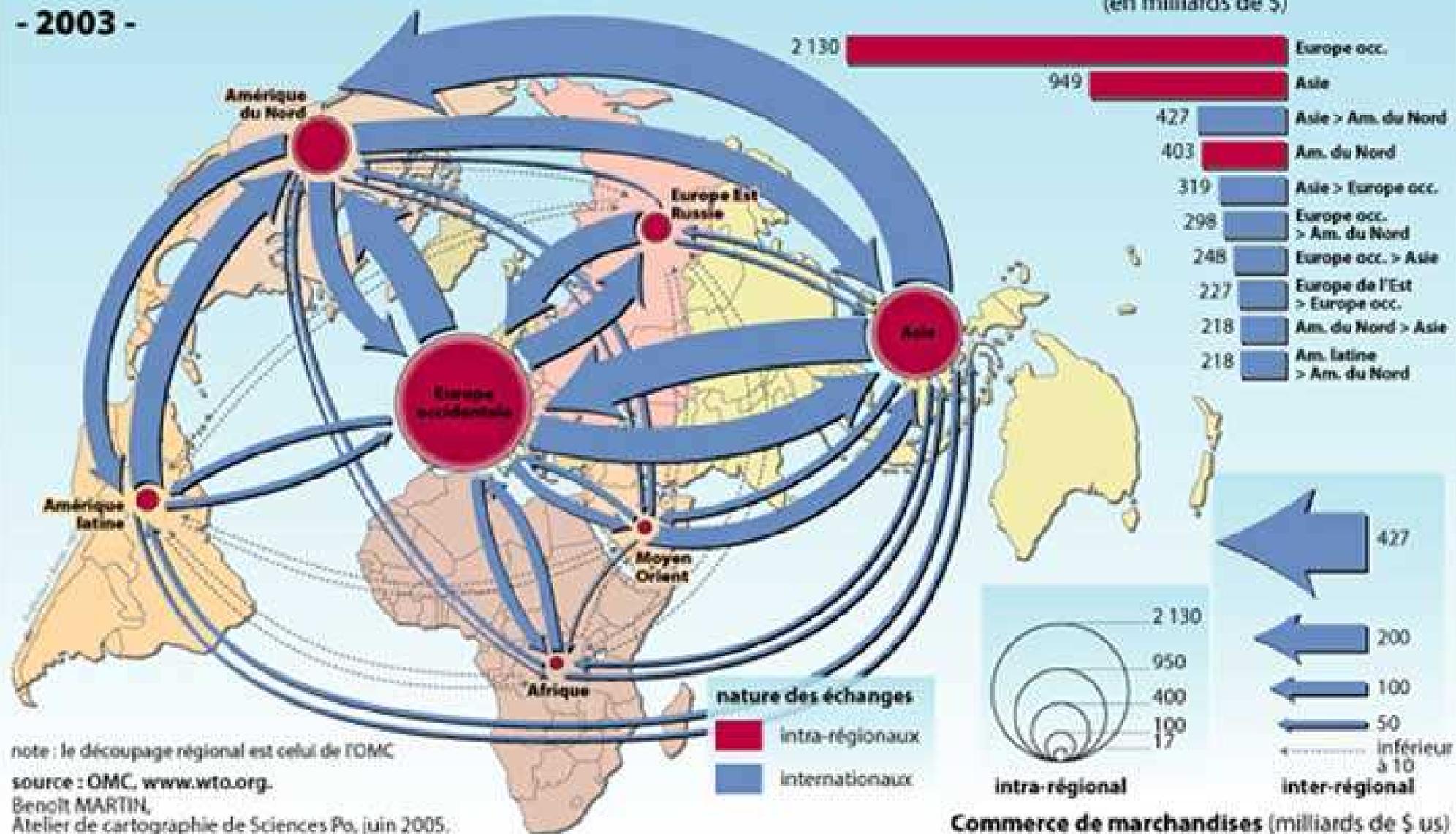


# Comments on the chart

- The bigger the country, the greater the *absolute* international trade
- The bigger the country, the smaller its international trade *relative* to its GDP
- The size of exports tendentially matches the size of imports

# Commerce mondial de marchandises - 2003 -

## Les 10 principaux échanges commerciaux (en milliards de \$)

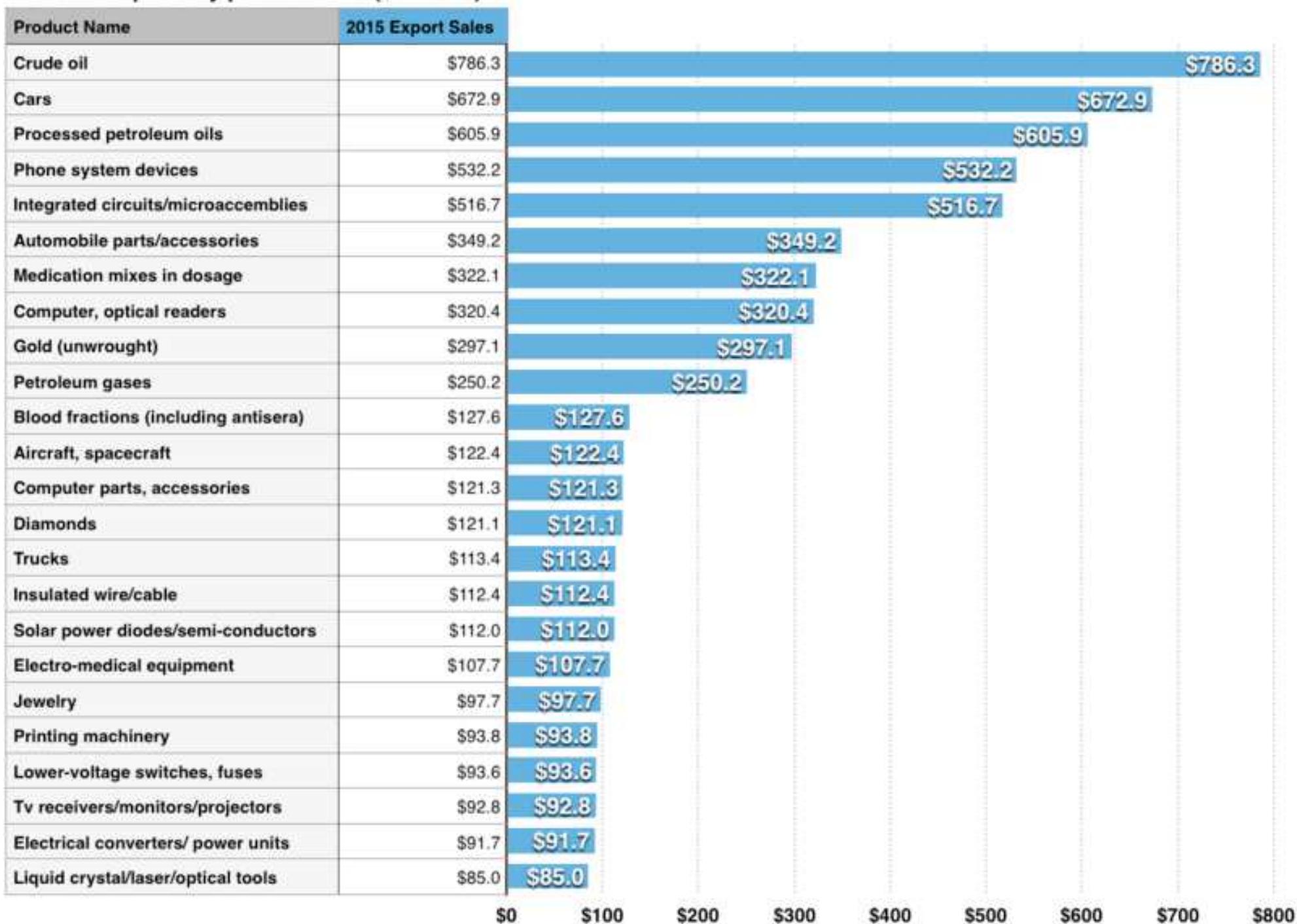




# Comments on the chart

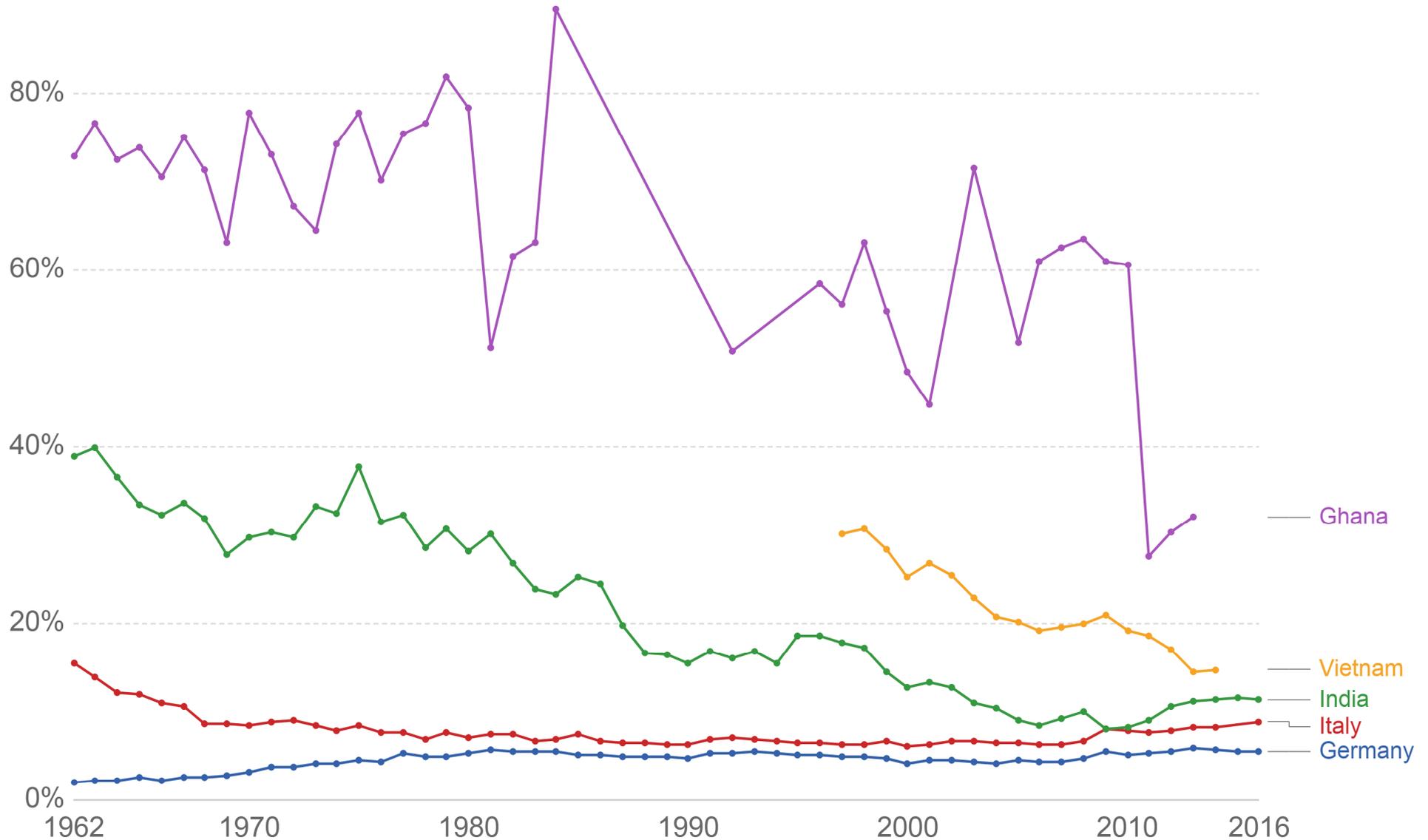
- West Europe, China and North America are the biggest international traders:
  - both between the three regions,
  - and within them
- East Europe+Russia, Latina America, and Africa are the smallest international traders

## Global exports by product 2015 (\$Billions)



# Share of food in total merchandise exports

Food exports (% of merchandise exports), as per Standard International Trade Classification of products.



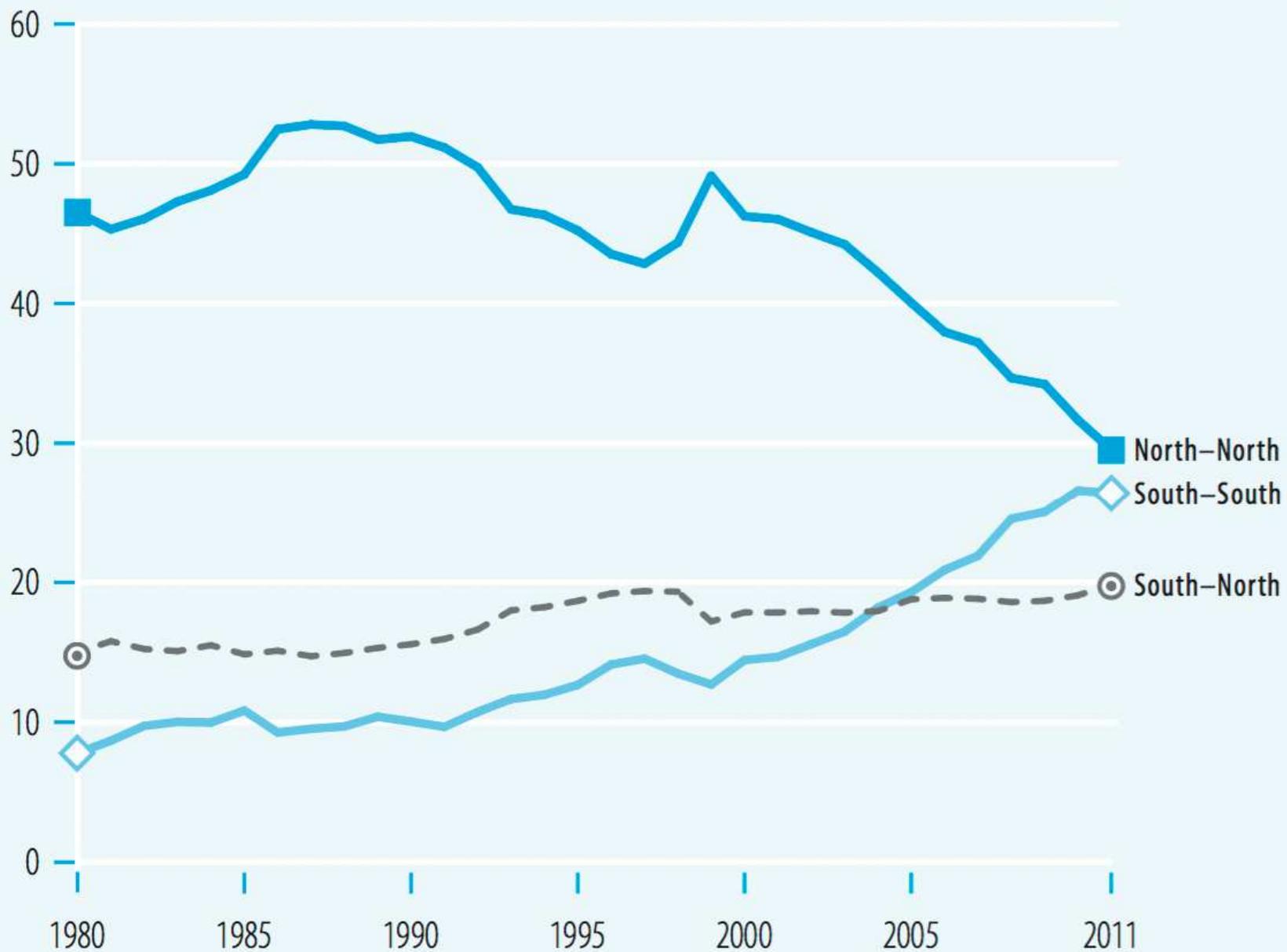
Source: World Bank – WDI

OurWorldInData.org/international-trade • CC BY-SA

# Comments on the charts

- International trade mainly consists of natural goods (commodities) and manufactured goods, rather than agricultural products.
- In the past, however, international trade mainly consisted of food
- Advanced countries mainly trade commodities and manufactured goods. Less developed countries mainly trade food
- More recent is country's age of industrialization, the smaller the size of manufactured goods.

### Share of world merchandise trade (%)



Note: North in 1980 refers to Australia, Canada, Japan, New Zealand, the United States and Western Europe.

Source: HDRO calculations based on UNSD (2012).

# Comments on the chart

- Advanced countries = North  
Less Developed Countries = South
- International trade between South countries increased more than International trade between North countries
- Strangely enough, international trade between North and South countries grows more slowly

# Int. trade and production factors

- The study of international trade also includes international movements of production factors: *capital* and *labor*.

- Memo:

Production function:

$$Y = F(K, L, N), F' > 0, F'' < 0$$

Y = production

K = real capital

L = labor

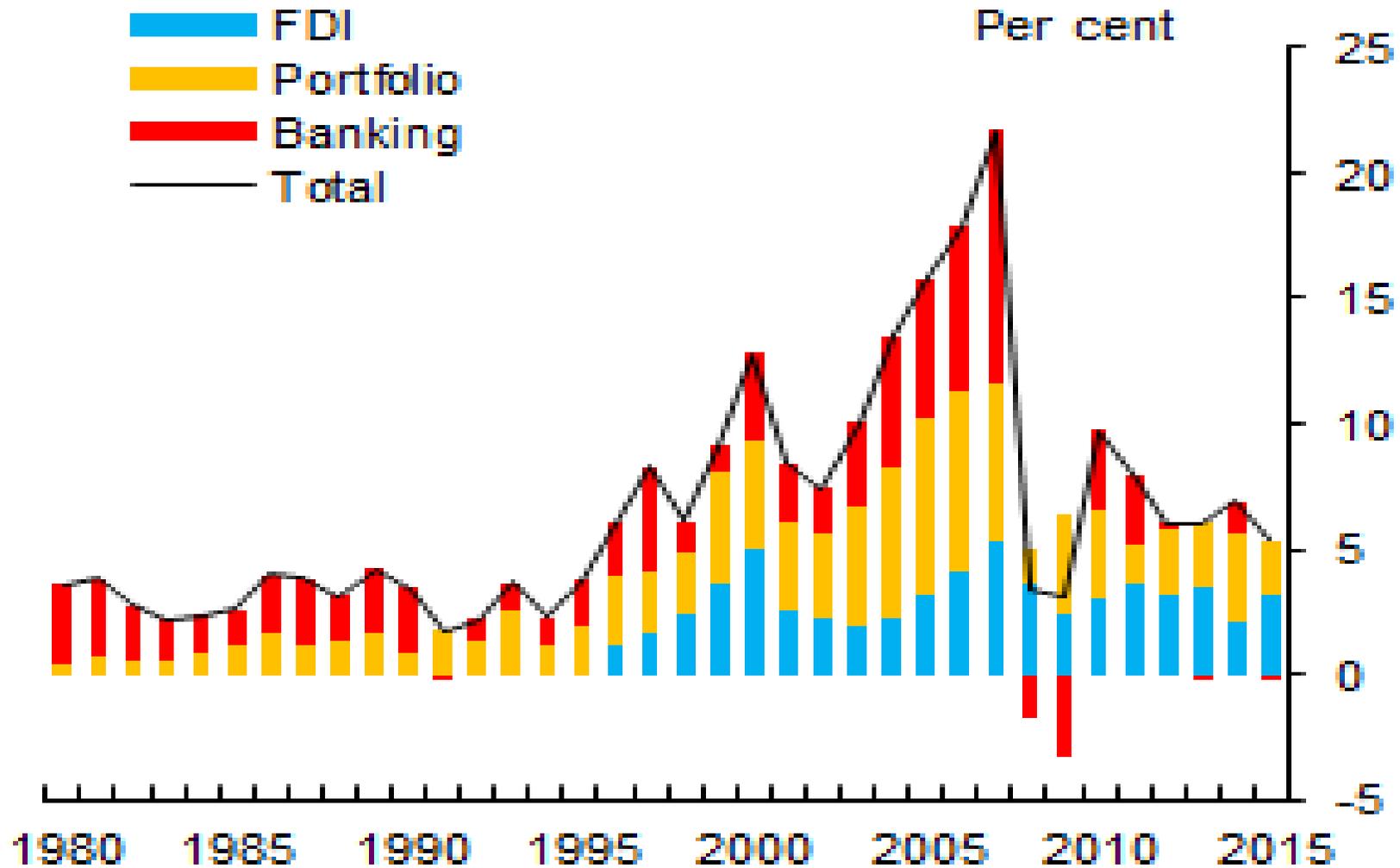
N = natural resources

# Capital Mobility

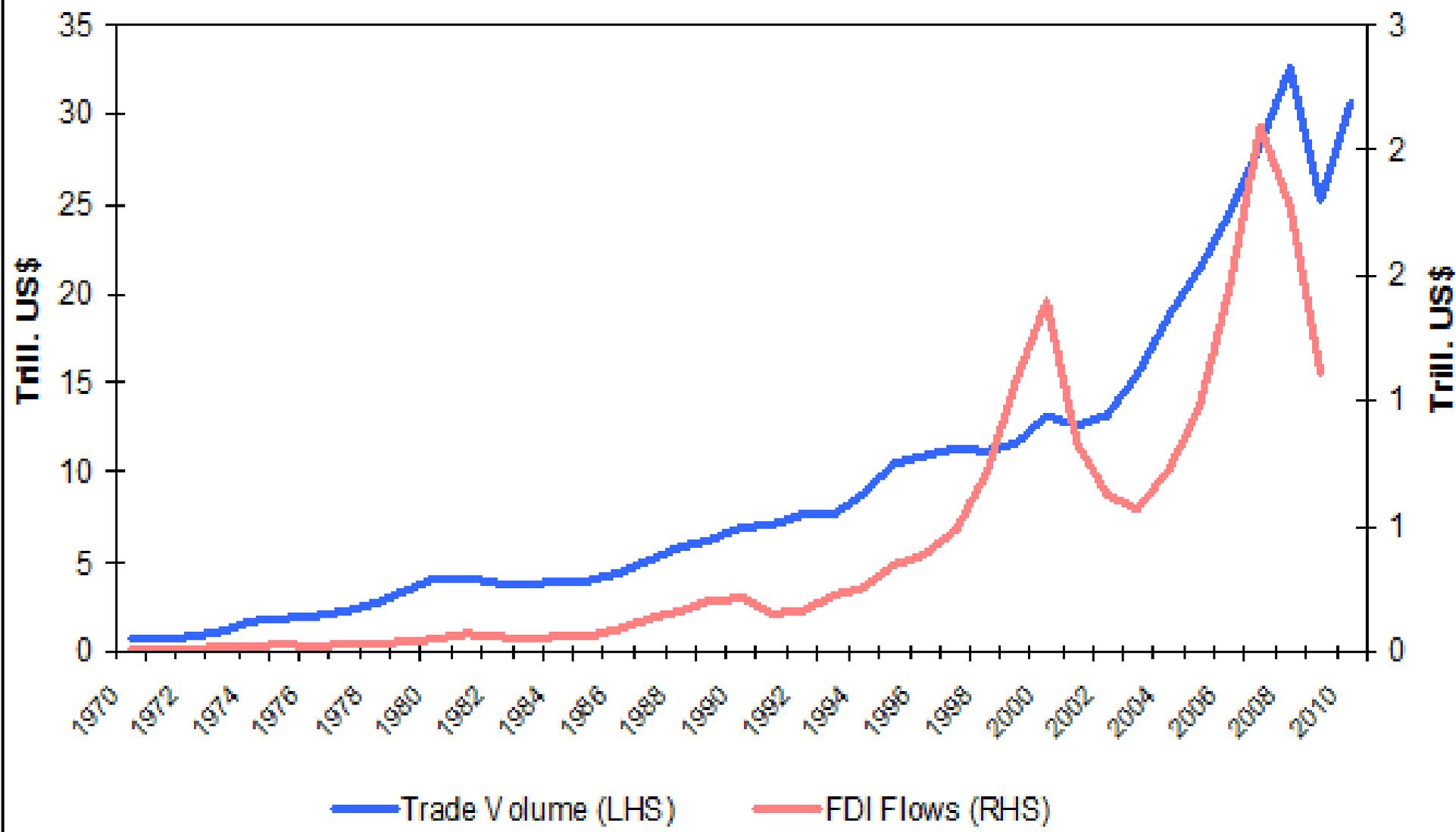
Two types of capital flows:

- flows of **financial capital** representing portfolio assets (such as stocks, bonds, currencies), and bank accounts, and
- flows of capital representing physical assets such as real estate, factories, and businesses - **Foreign Direct Investment**.
  - Firms' FDI usually intends to establish control on production.

# Capital flows (% of world GDP)



## Trade Volumes and FDI Flows Worldwide





# Comments on the charts

- International capital flows are more volatile than merchandise trade (and they may magnify economic instability).
- Int. capital flows have increased rapidly after the 1990s, collapsed in the great recession, and then slightly recovered.
- Foreign direct investment has increased almost like merchandise trade



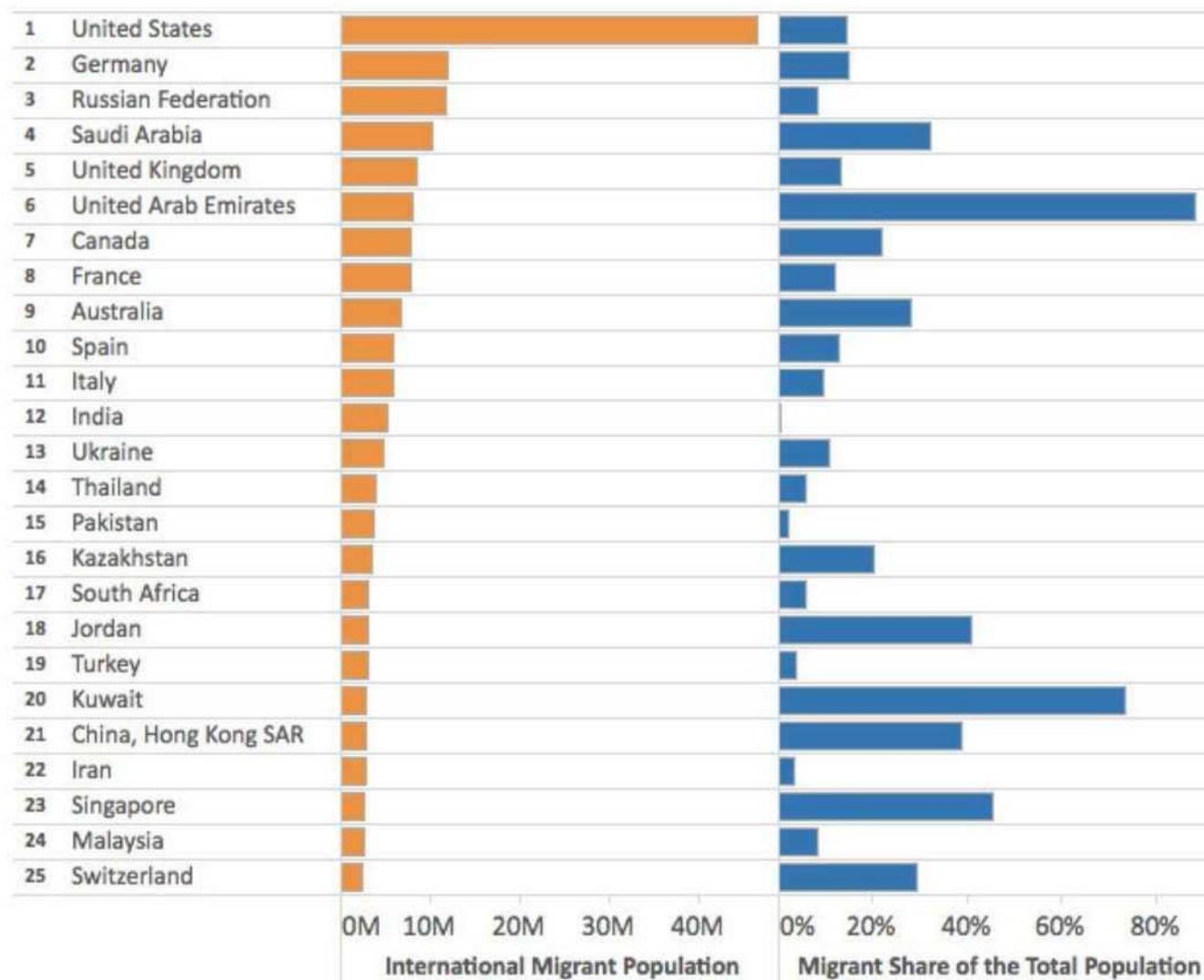
# Labor Mobility

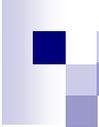
- Labor mobility for economic reasons is a subset of migration.
- It has been a widespread phenomenon, and it dates back in history of human species.
- This is a complex phenomenon.

**Figure 8: Top 25 Destination Countries for International Migration, 2015**

Note: M = million

Source: Migration Policy Institute, n.d.





# Comments on the chart

- The US is the biggest host country in absolute terms.
- West Europe, Russia, and Australia follow.
- Oil exporting countries are the biggest host countries in % of the population.



End of the first lecture  
of  
International Trade  
*M. Pugno*