



The Changing Landscape of Global Trade *and some implications for employment and inequality*

Handout

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www.oecd.org/economy/economicoutlook.htm
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The Changing Landscape

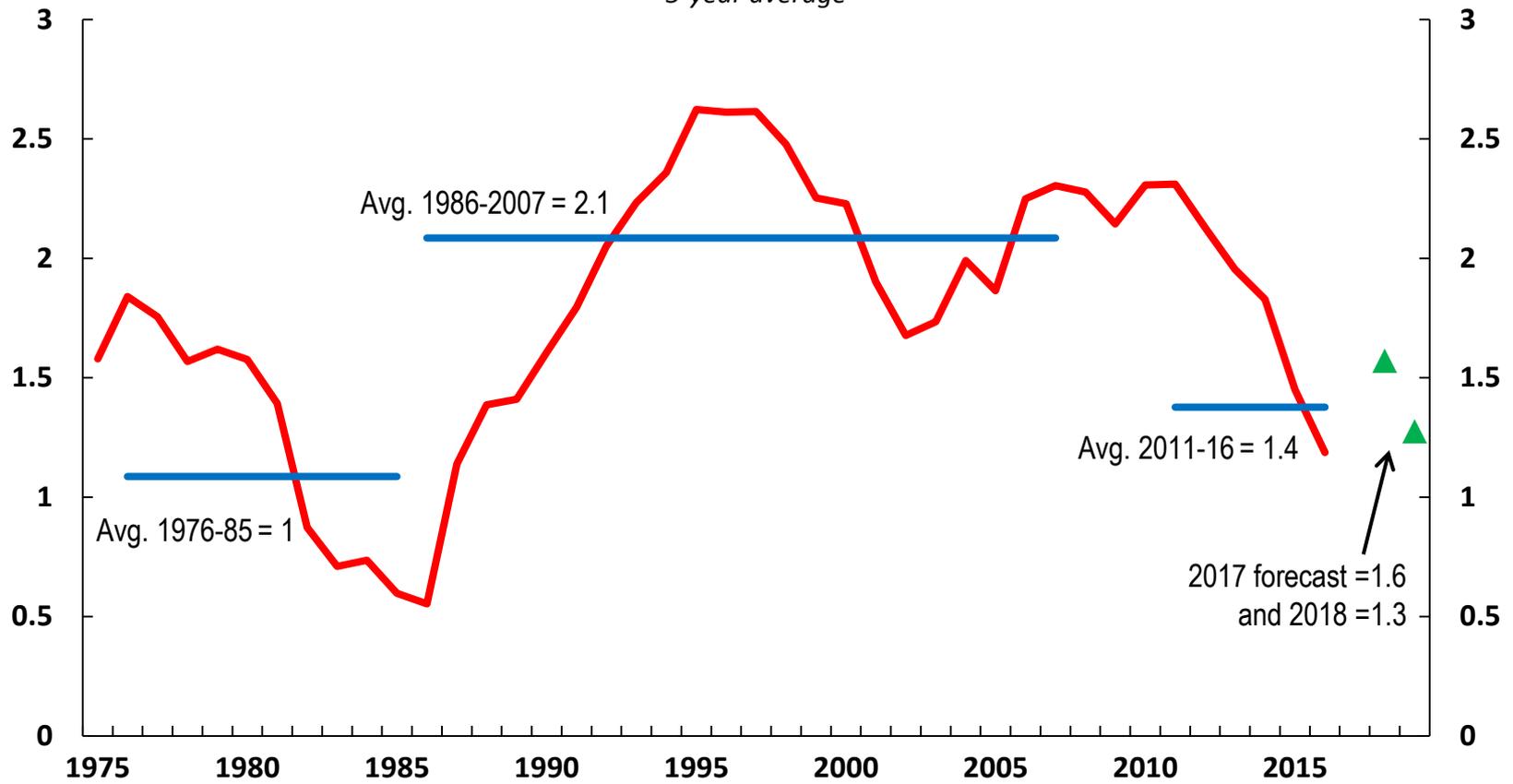


Is growth in trade intensity now lower?

Return to earlier times? But, expectations of past decades matter

Ratio of world trade growth to GDP growth

5-year average



Note: World trade is goods plus services trade volumes measured at market exchange rates in US dollars.

World GDP volumes measured at market exchange rates in US dollars.

Source: OECD June 2017 Economic Outlook database; and OECD calculations.



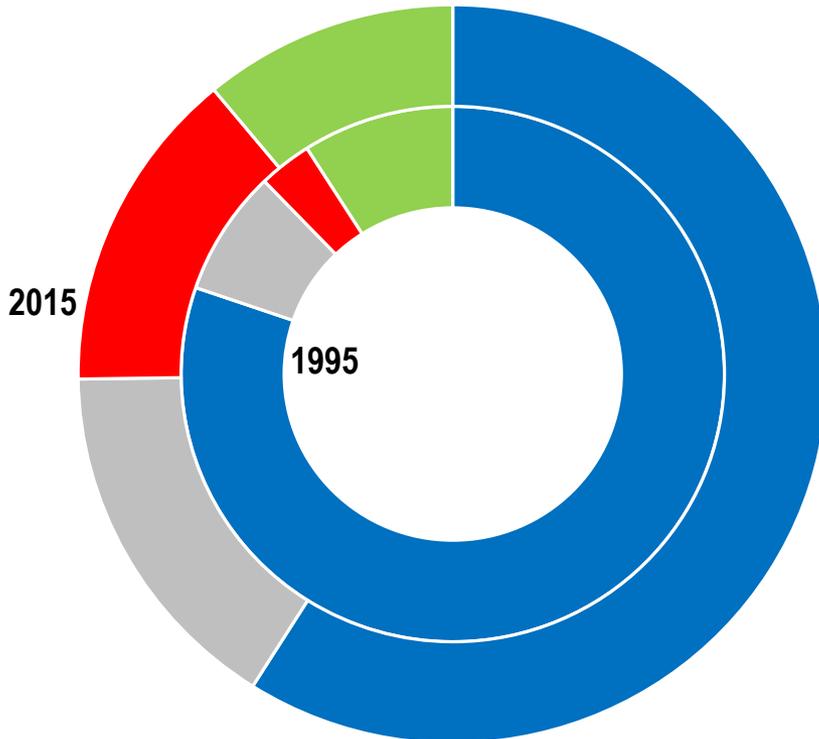
Shift in specialization, patterns, and growth

from more open Advanced and Mfg toward less open EME and Services

World goods trade

Share of world goods exports, volumes

- OECD
- Rest of the World
- China
- Dynamic Asian Economies



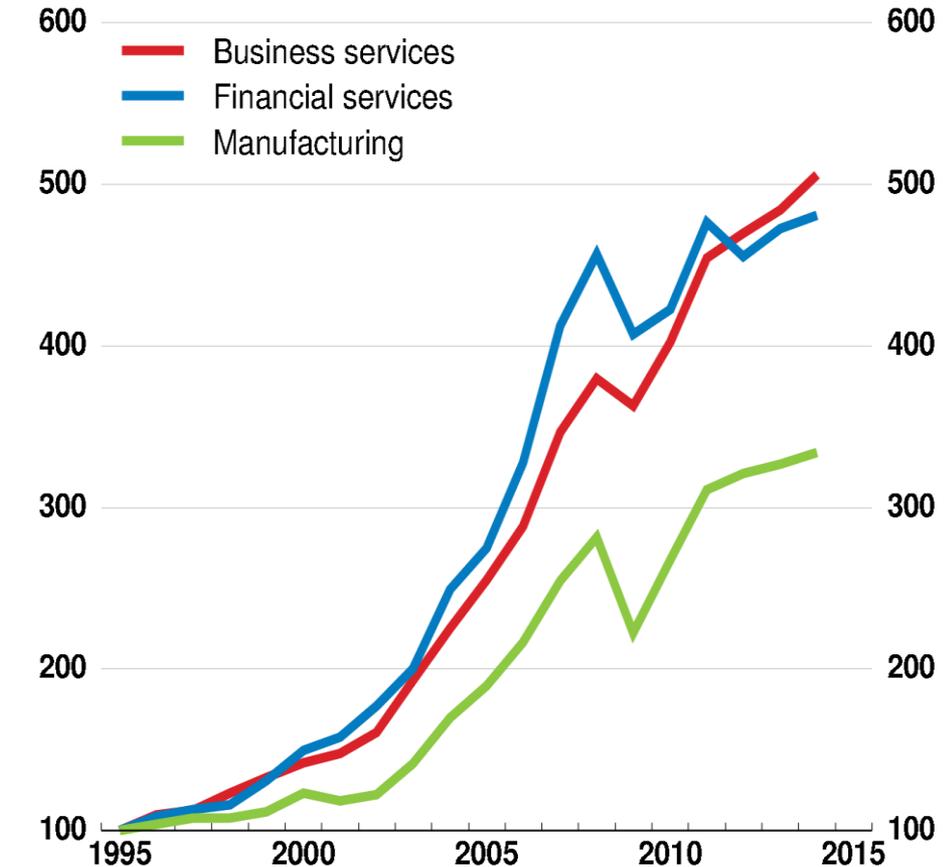
World trade by type

Index 1995 = 100

Exports, values

Index 1995 = 100

- Business services
- Financial services
- Manufacturing



Note: LHS – Dynamic Asian Economies includes Malaysia, the Philippines, Singapore, Thailand, Vietnam, Chinese Taipei and Hong Kong.
 RHS – Business services includes R&D, ICT, real estate and other business activities. Financial services includes financial intermediation, insurance, pension funding and other financial activities.

Source: OECD-WTO Trade in Value Added (TiVA) database; UN Comtrade database; and OECD calculations.

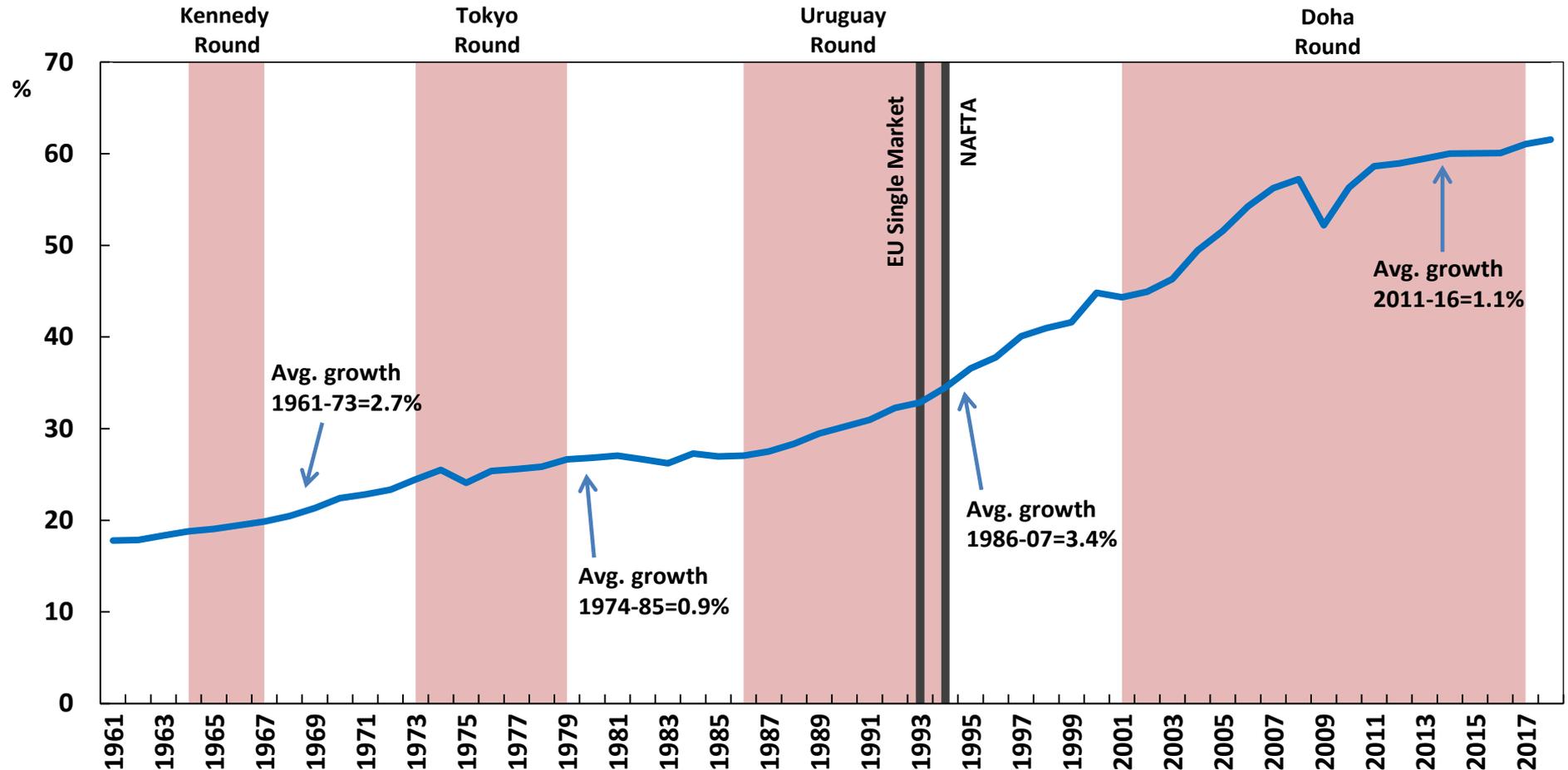


Perhaps because of stalled global negotiations?

Proliferation of PTAs, but less liberalization esp. in services?

World trade intensity

World exports plus imports to GDP



Note: Both world trade and GDP measured at market exchange rates in constant 2010 US dollars.

Source: OECD Economic Outlook database.

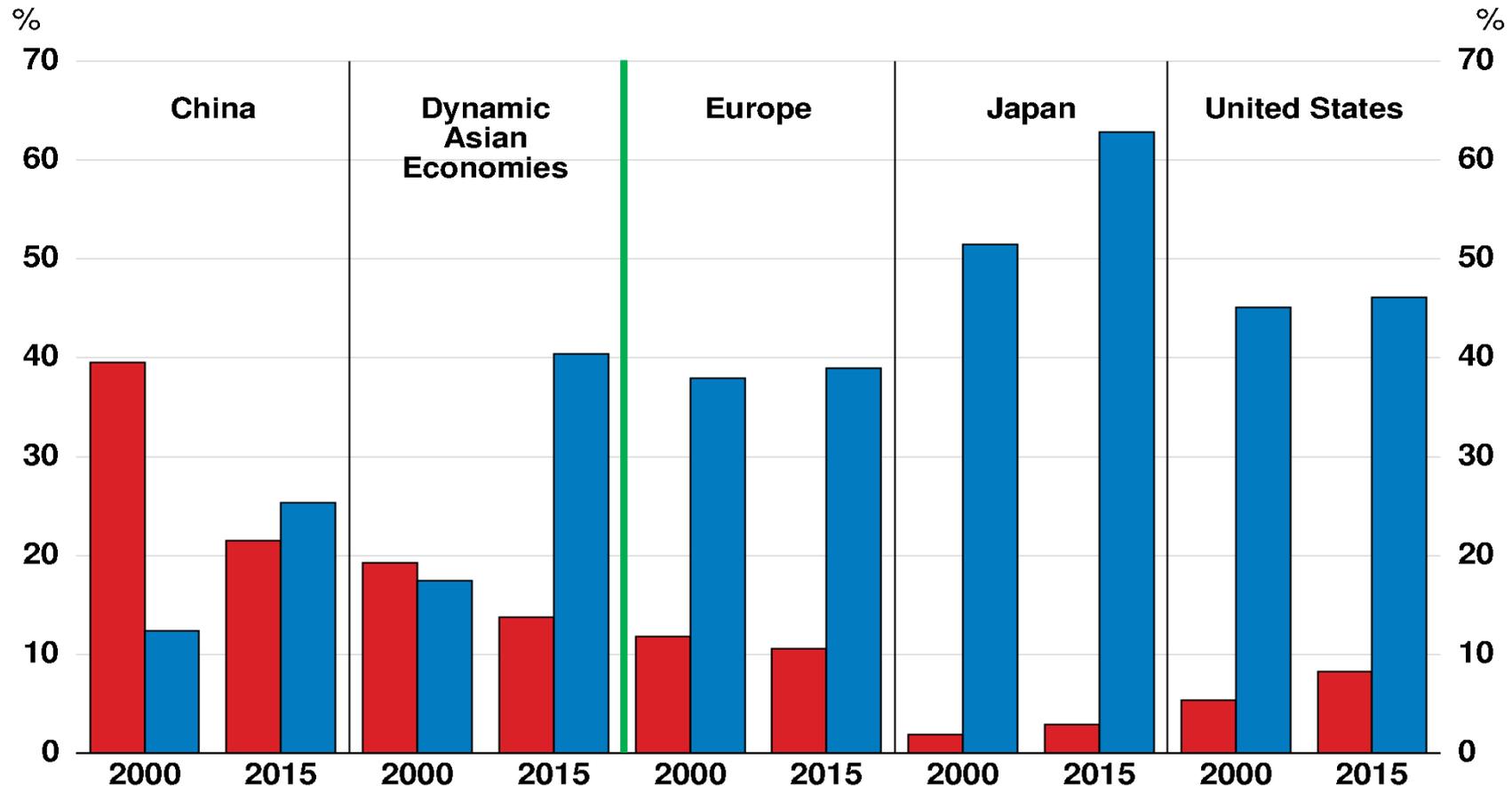


Changing competition in product space

Products of advanced economies face greater competition relatively more from each other, but also increasingly from products of EMEs

Share of export goods by complexity

Least complex Most complex



Note: In nominal terms. Least complex is the 1st quartile of products by complexity (e.g. crayons), most complex is the 4th quartile (e.g. medical equipment), excluding major commodities. Dynamic Asian Economies includes Malaysia, the Philippines, Singapore, Thailand, Vietnam, Chinese Taipei and Hong Kong. Europe is the unweighted average of the Czech Republic, France, Germany, Ireland, Italy, Poland, Portugal and the UK.

Source: UN Comtrade database; and OECD calculations.

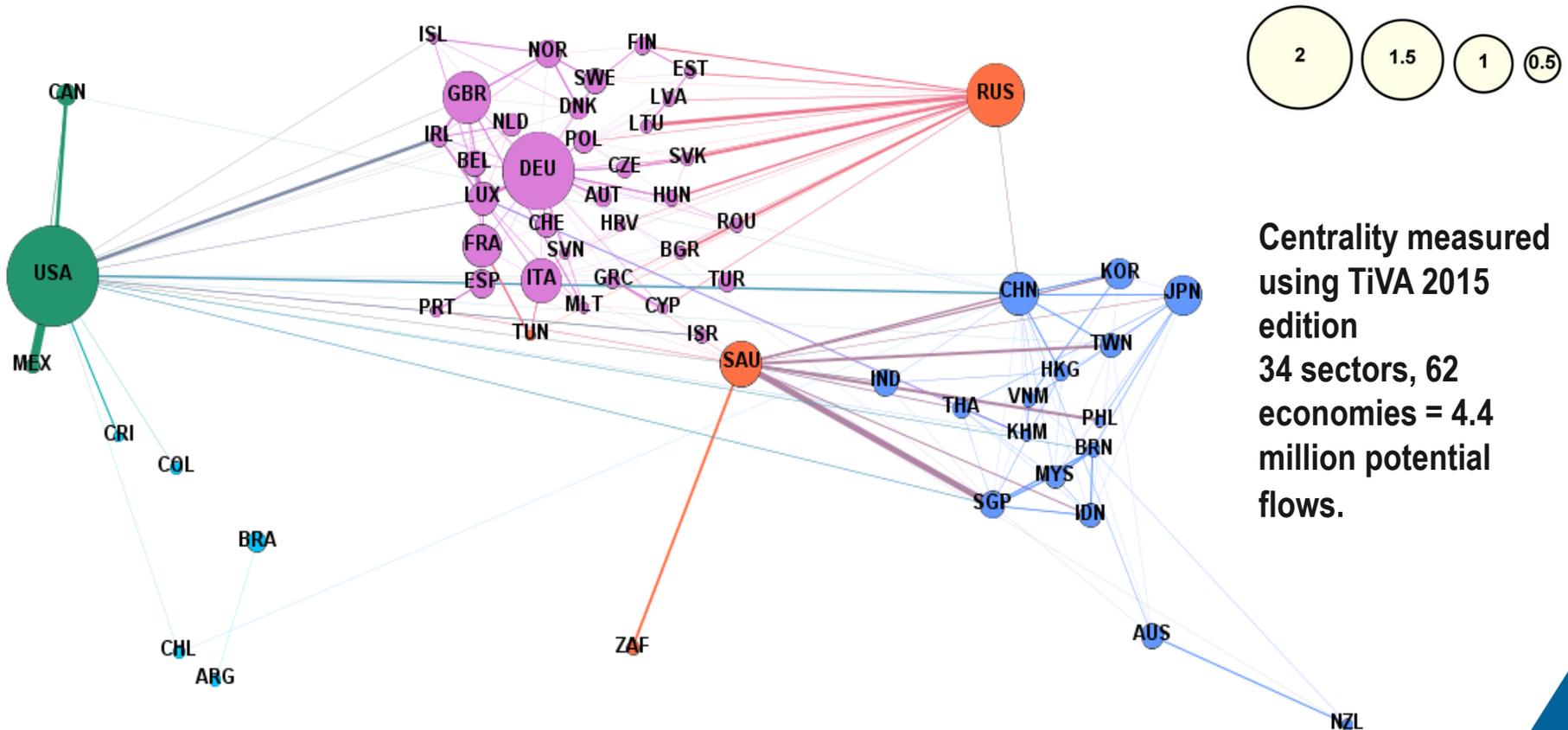


A new way to look at GVCs

Bonacich-Katz eigenvector centrality strength of direct and indirect connections

Hubs and production networks

Aggregate central and peripheral economies, 2011



Note: Economies are placed according to their location. Node size denotes total centrality (forward and backward) aggregated at an economy-level and includes all sectors within global production networks. Edges reflect direct input flows. For clarity only the largest input flows are reflected, those exceeding 2% of total inputs used in the importing or exporting economy.

Source: Criscuolo, C. and J. Timmis (2017), "The changing structure of GVCs: Are hubs central for productivity?" (forthcoming), OECD Directorate for Science, Technology and Innovation.

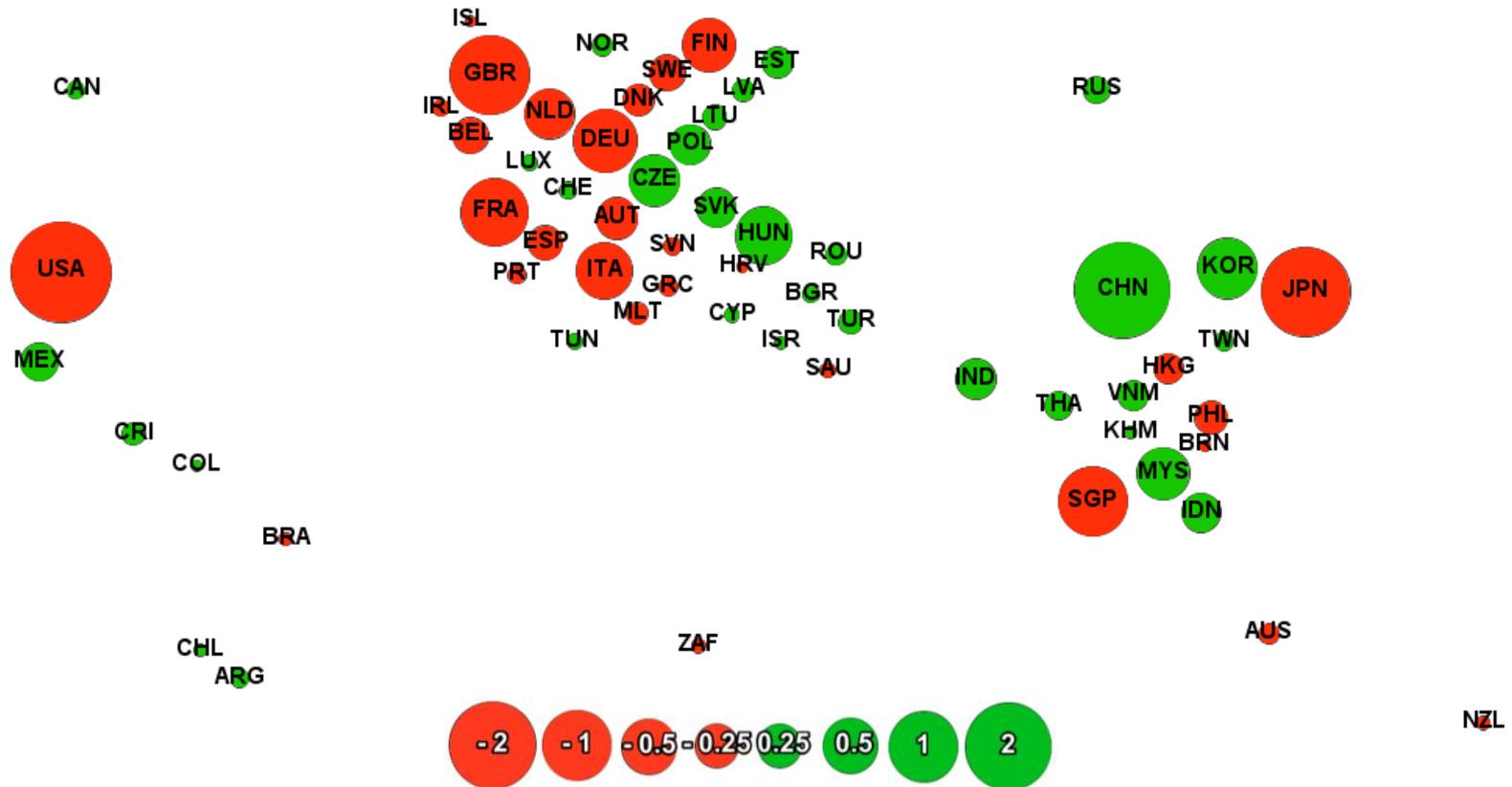


Changing structure of Global Value Chains

example of IT manufacturing shifting hubs east

Relative change in computer and electronics manufacturing

From 1995 to 2011



Note: Economies are placed according to their location. Size of the nodes reflects the magnitude of the change (in levels) of total foreign centrality over the period 1995-2011. As reflected in the key, these changes are graphed using a log scale for readability. Green coloured nodes reflect increasing centrality and red denotes falling centrality.

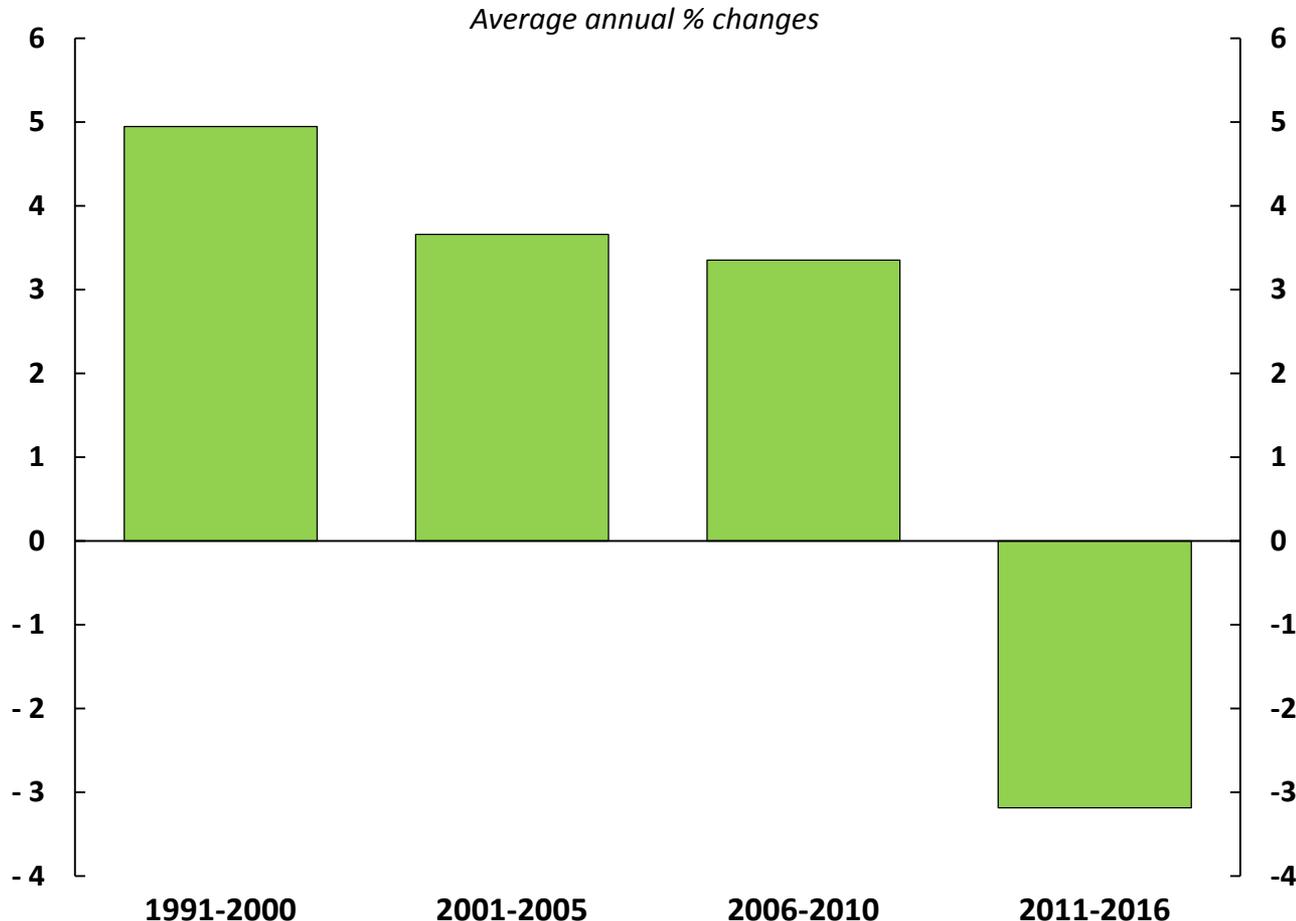
Source: Criscuolo, C. and J. Timmis (2017), "The changing structure of GVCs: Are hubs central for productivity?" (forthcoming), OECD Directorate for Science, Technology and Innovation.



In recent years, overall GVCs are contracting

GVCs have been a source of tech transfer, economies of scale, cluster economies, all supporting productivity growth

Real time global value chain indicator



Note: Structural global value chain indicator shown which adjusts for the economic cycle and changes in commodity prices. For further detail see OECD 2016 Economic Policy Paper “Cardiac Arrest or Dizzy Spell: Why is World Trade So Weak and What Can Policy Do About It?”.

Source: OECD June 2017 Economic Outlook database; OECD STAN Bilateral Trade database; and OECD calculations.



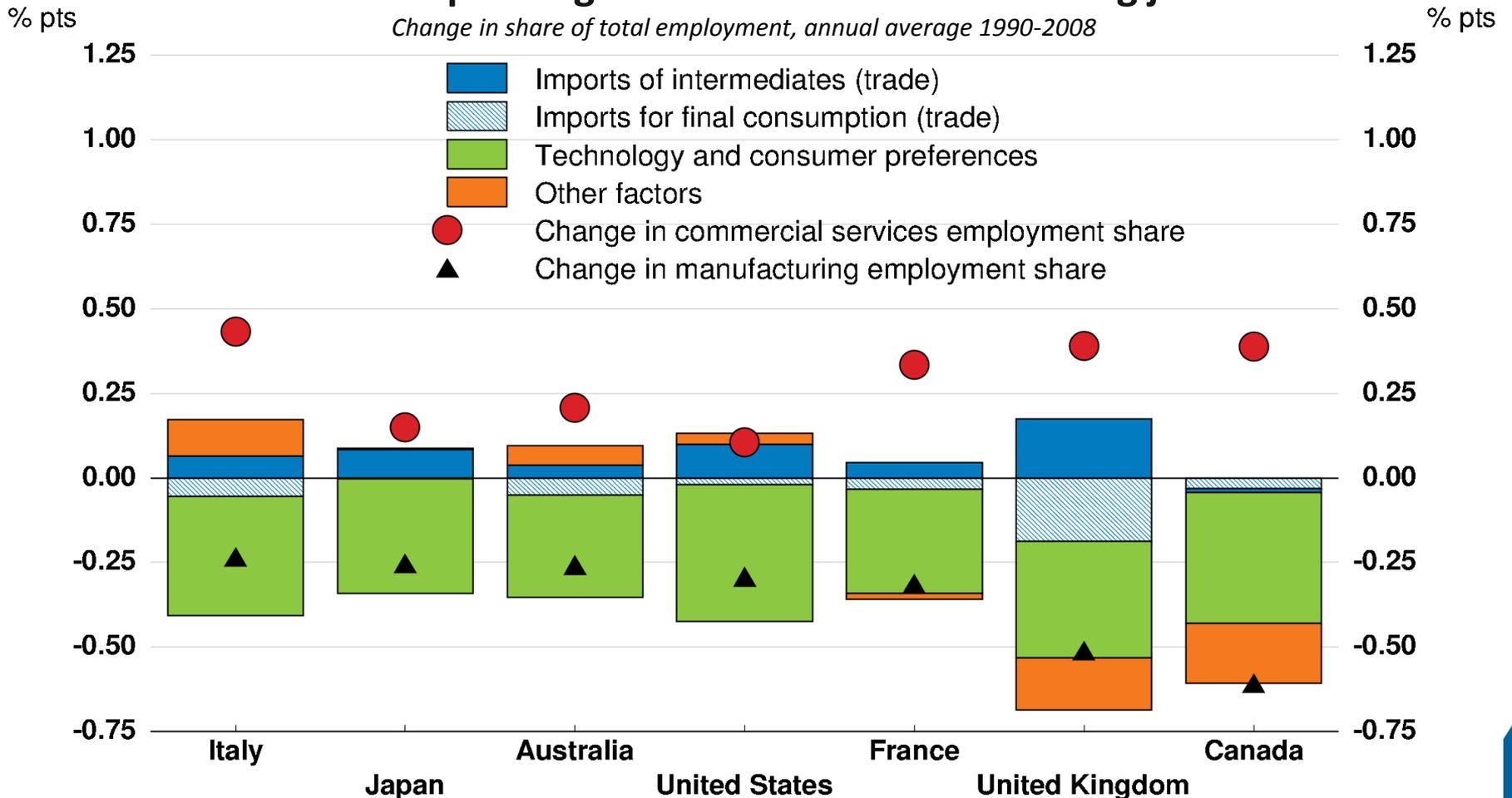
Some Implications for manufacturing jobs and inequality



Technology & "Tastes" dominate role for Trade in manufacturing job loss

Factors explaining the decline in manufacturing jobs

Change in share of total employment, annual average 1990-2008

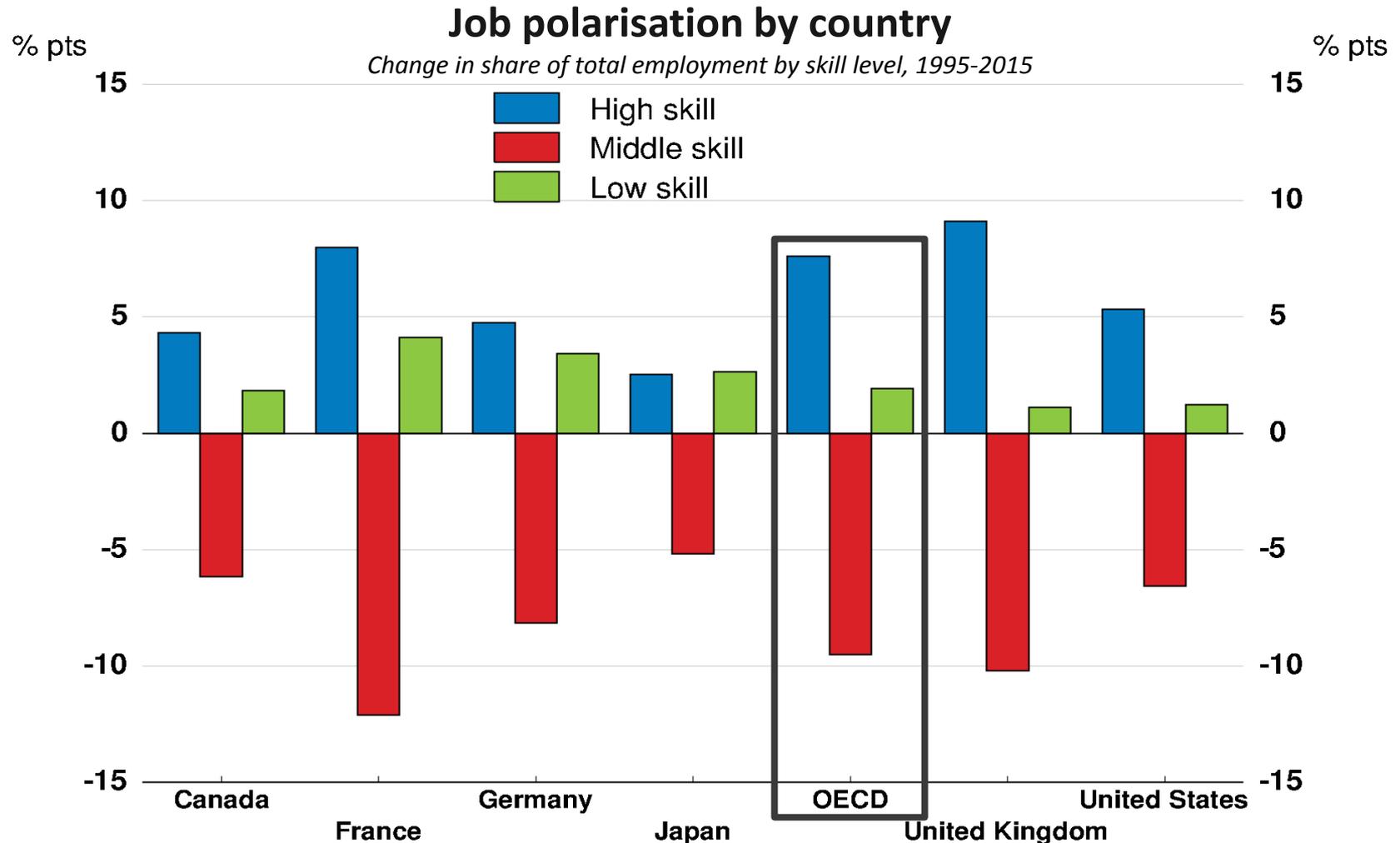


Note: Decomposition based on regression estimation. Each factor is based on the change over the period. Technology and consumer preferences include ICT and machinery investment, changes in the manufacturing consumption share and time specific effects.

Source: OECD Economic Outlook database; STAN database; and OECD calculations.



Job losses have centred on people with mid-level skills

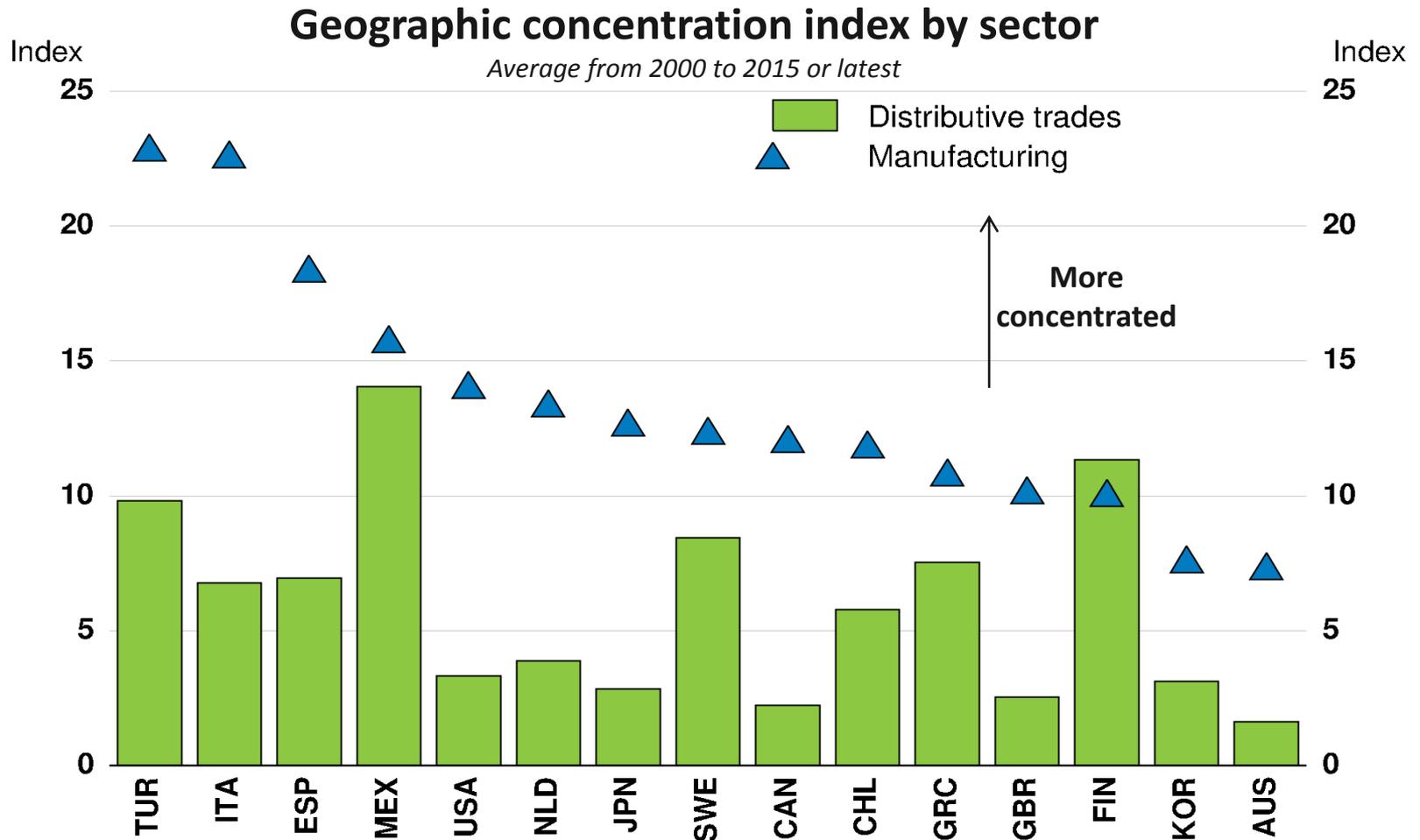


Note: OECD is the unweighted average of 24 countries. For Japan 1995-2010.

Source: OECD Employment Outlook 2017; European Union Labour Force Survey; Labour force surveys for Canada, Japan and the United States; and OECD calculations.



But, decline in manufacturing matters because activity is regionally concentrated

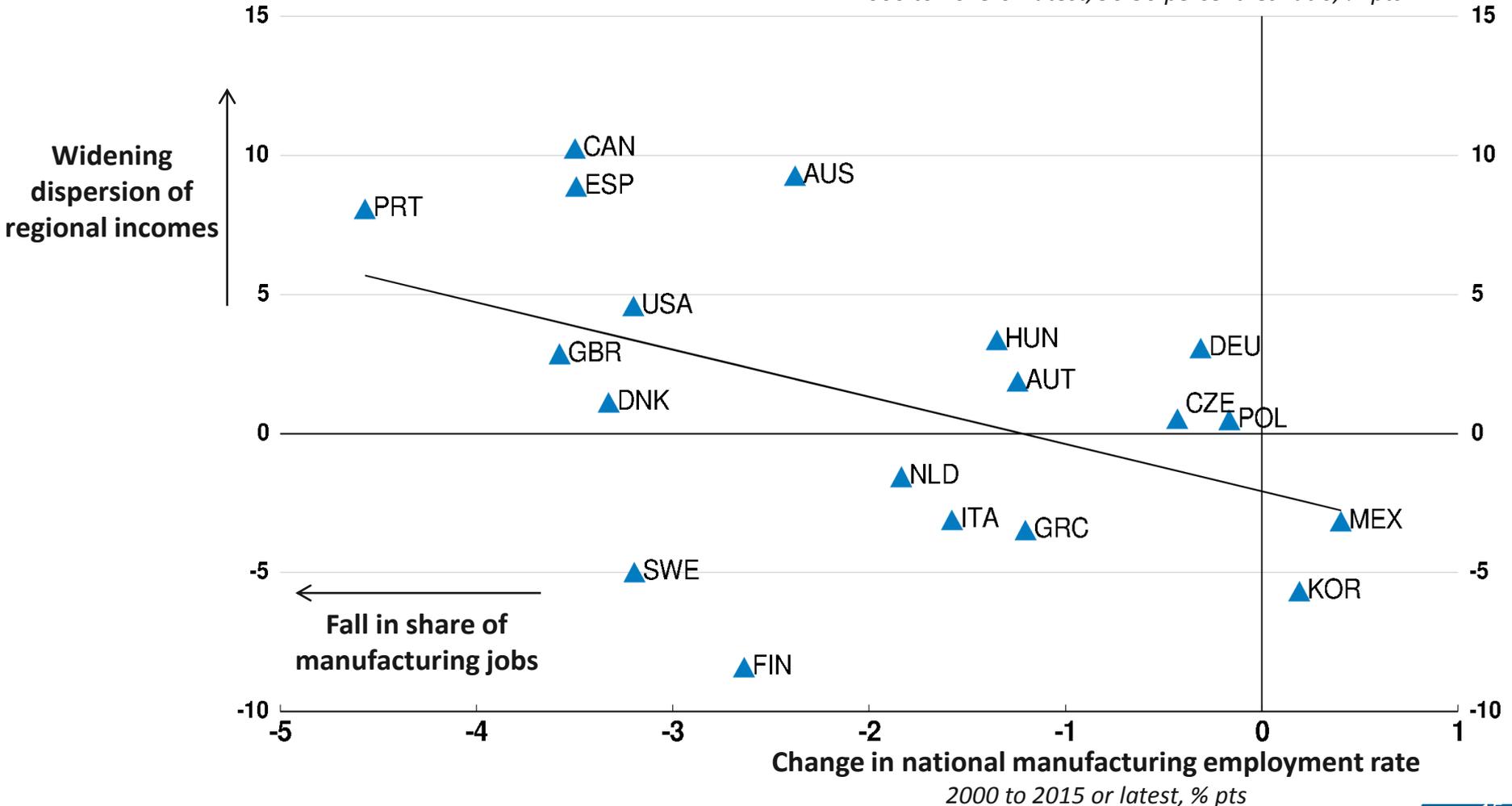


Note: "Distributive trades" includes distributive trade, repairs, transportation and storage, accommodation and food service activities. Index measures the extent to which employment is concentrated in particular regions, varying between 0 (no concentration, where all regions of a country have the same manufacturing employment rate) and 100 (maximum concentration, where all manufacturing employment is concentrated in the smallest region). The index incorporates the size of the region and is based on OECD (2003) "Geographic Concentration and Territorial Disparity in OECD Countries". Source: OECD Regional database; and OECD calculations.



Countries with larger falls in manufacturing jobs have increased regional inequality

Change in average income inequality across regions
2000 to 2015 or latest, 90:50 percentiles ratio, % pts



Source: OECD Regional database; and OECD calculations.



Policy implications

