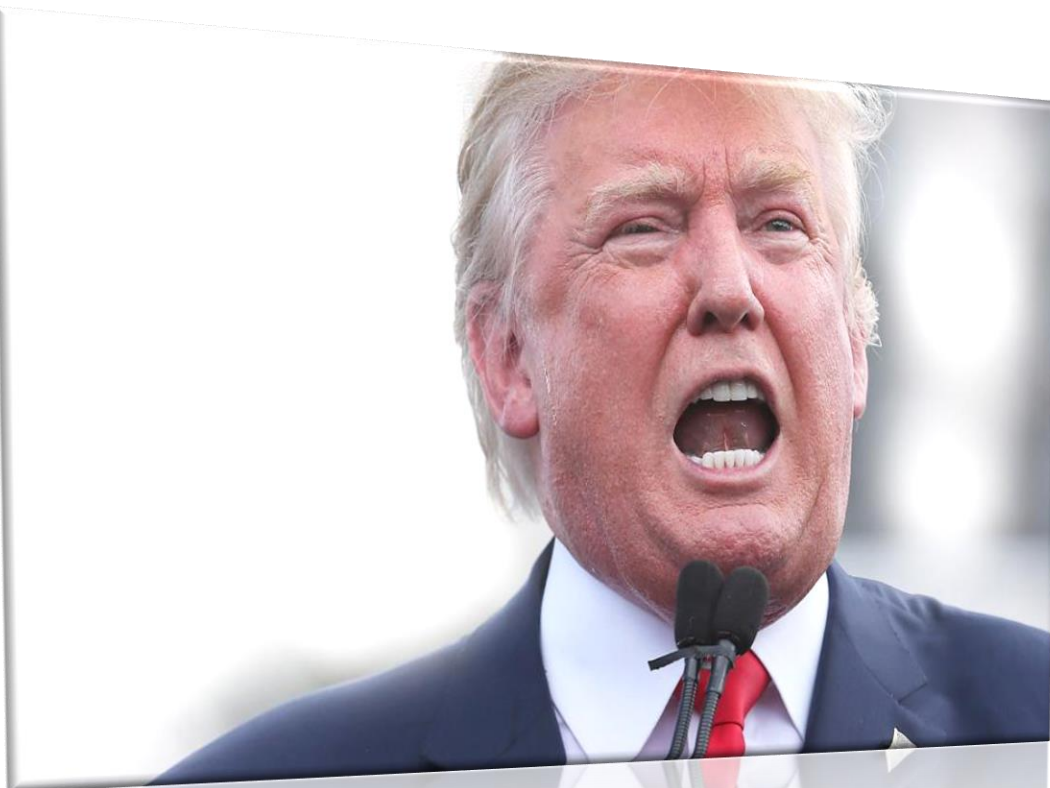


A background image showing Donald Trump speaking at a podium. Behind him is a large blue banner with the word 'TRUMP' in large white letters and 'MAKE AMERICA GREAT AGAIN!' below it. A smaller sign on the podium also displays 'TRUMP' and the slogan. The image is semi-transparent, allowing the text to be overlaid.

The Challenges of Global Trade: Globalization or Fragmentation?

Dany Bahar, PhD

★ The Brookings Institution



The city of Pittsburgh, and the State of Pennsylvania, have lost one-third of their manufacturing jobs since the Clintons put China into the WTO [...] Fifty thousand factories across America have shut their doors in that time.

"NAFTA, supported by the secretary, cost us 800,000 jobs nationwide, tens of thousands of jobs in the Midwest."

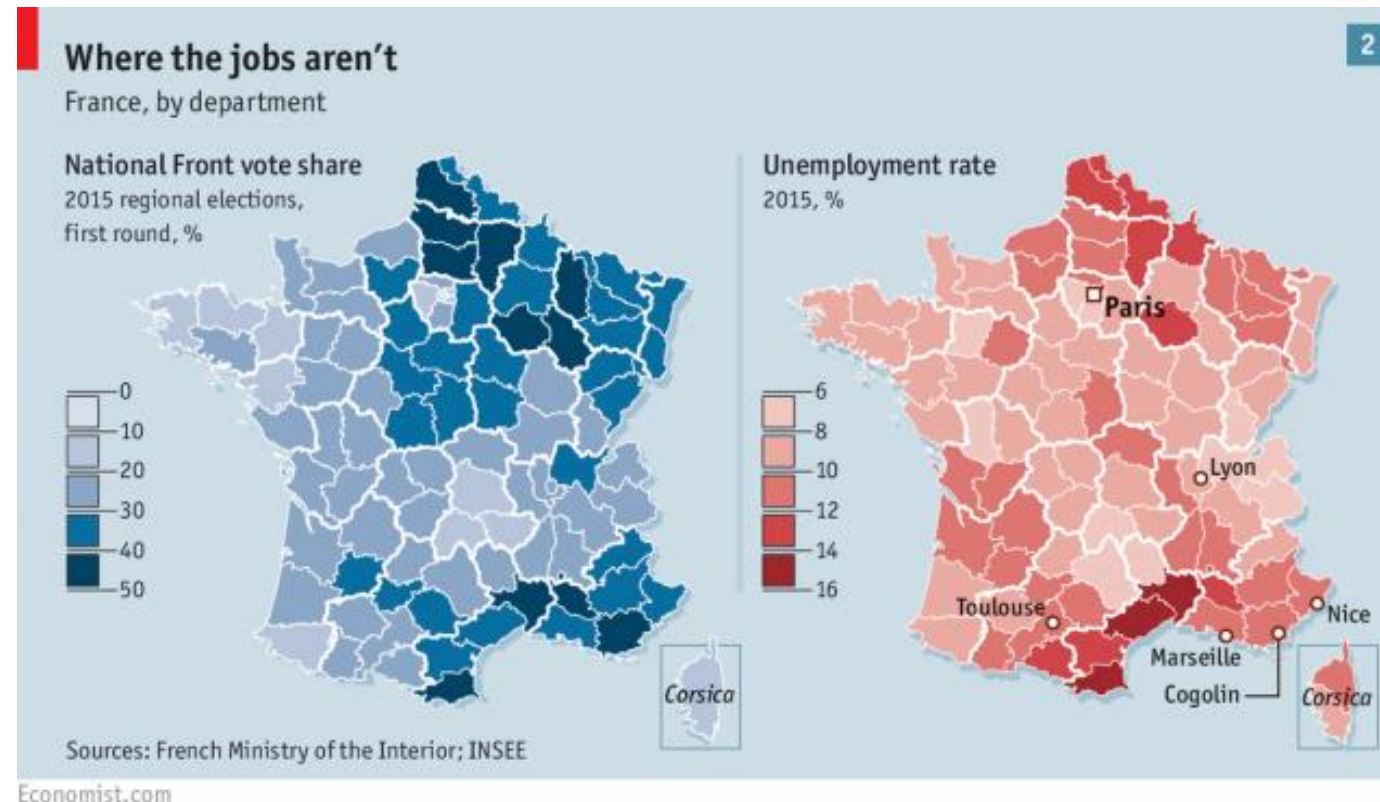
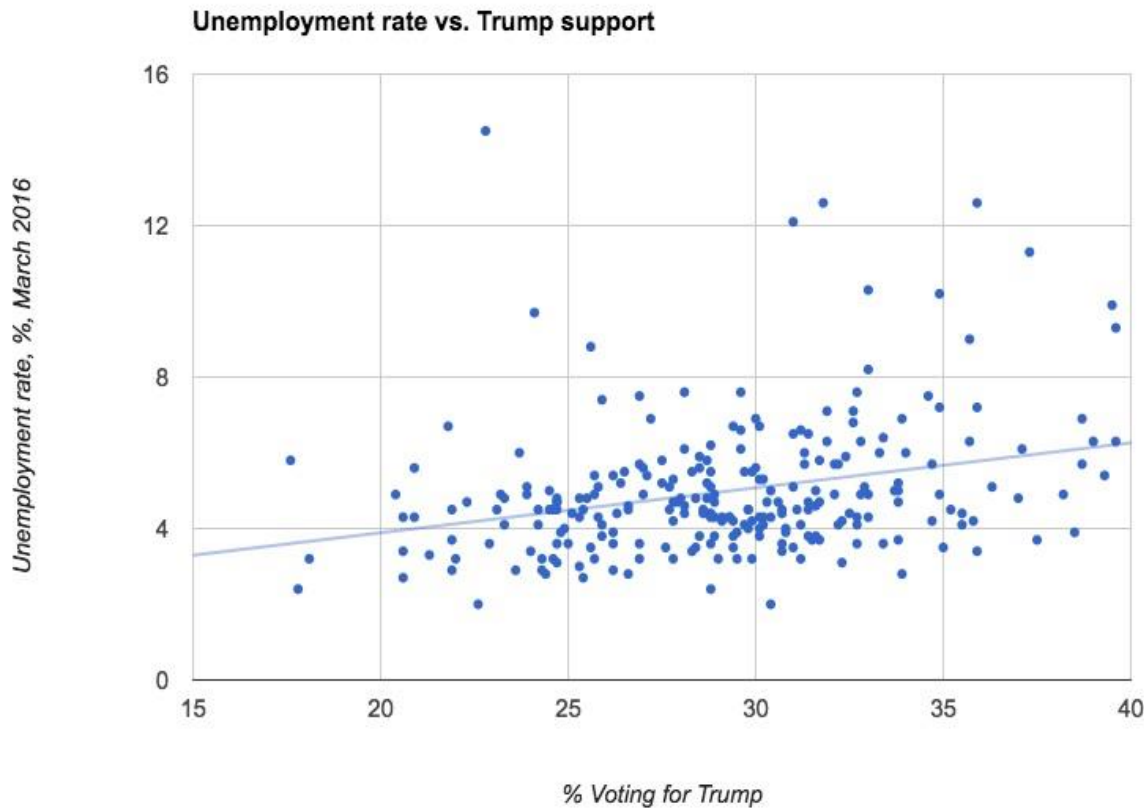


 @dany_bahar



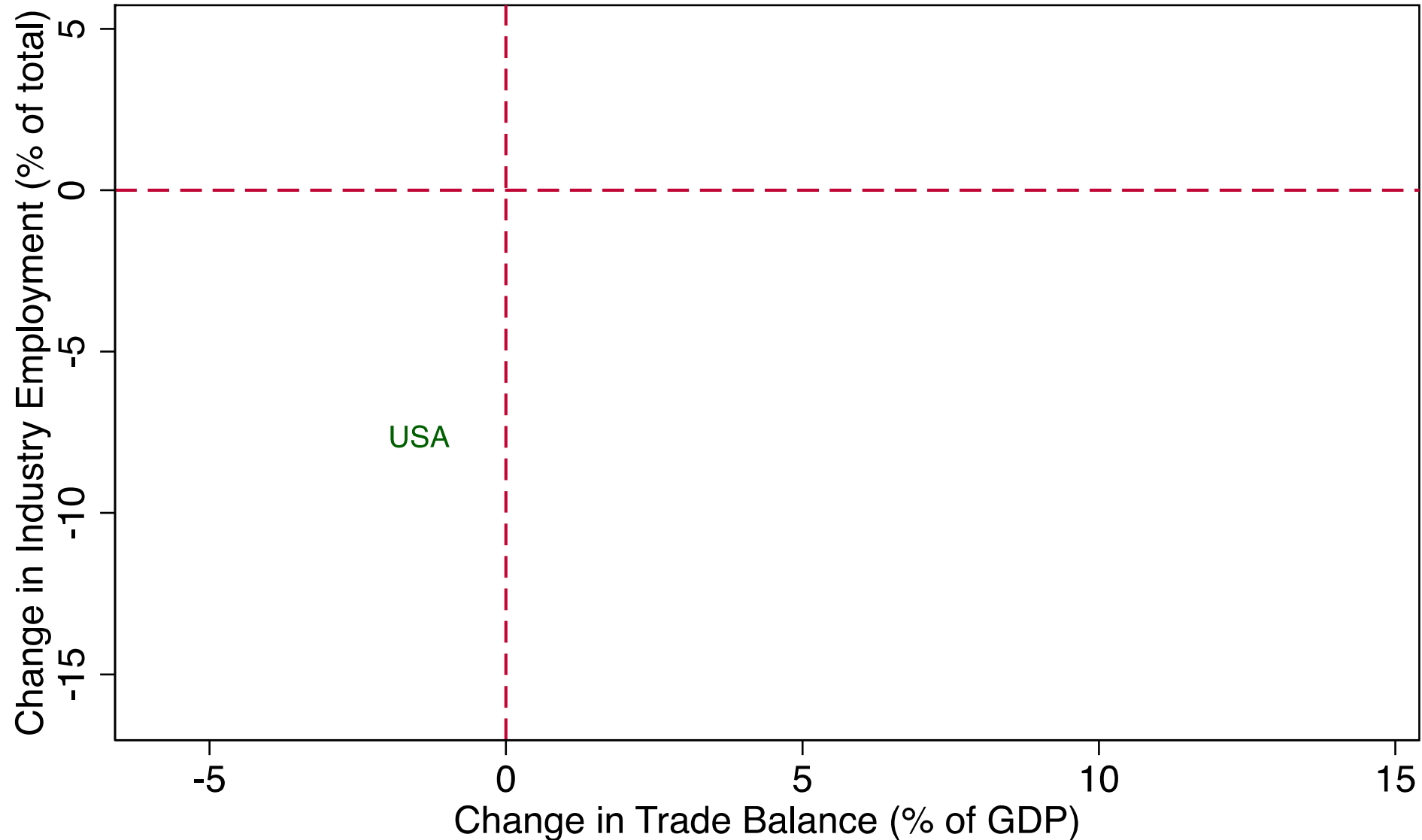
Unemployment explains rise of anti-globalization politicians all over the globe

- Some politicians have successfully used trade and migration as scapegoats to explain slow economic growth for the middle class...



Trade Balance vs. Industry Employment 1995-2010

OECD Countries

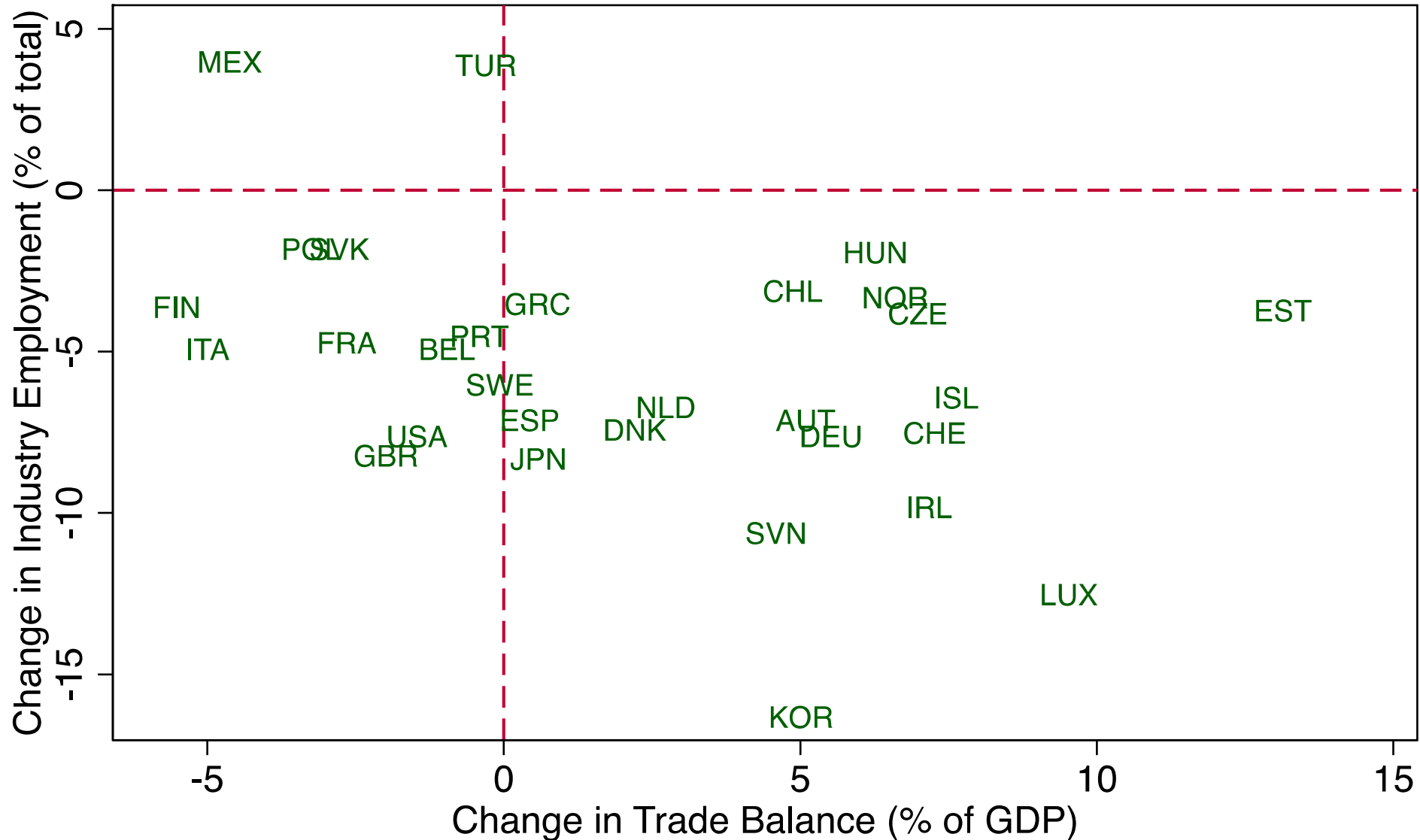


Source: WDI and author's calculation. Prepared by @dany_bahar



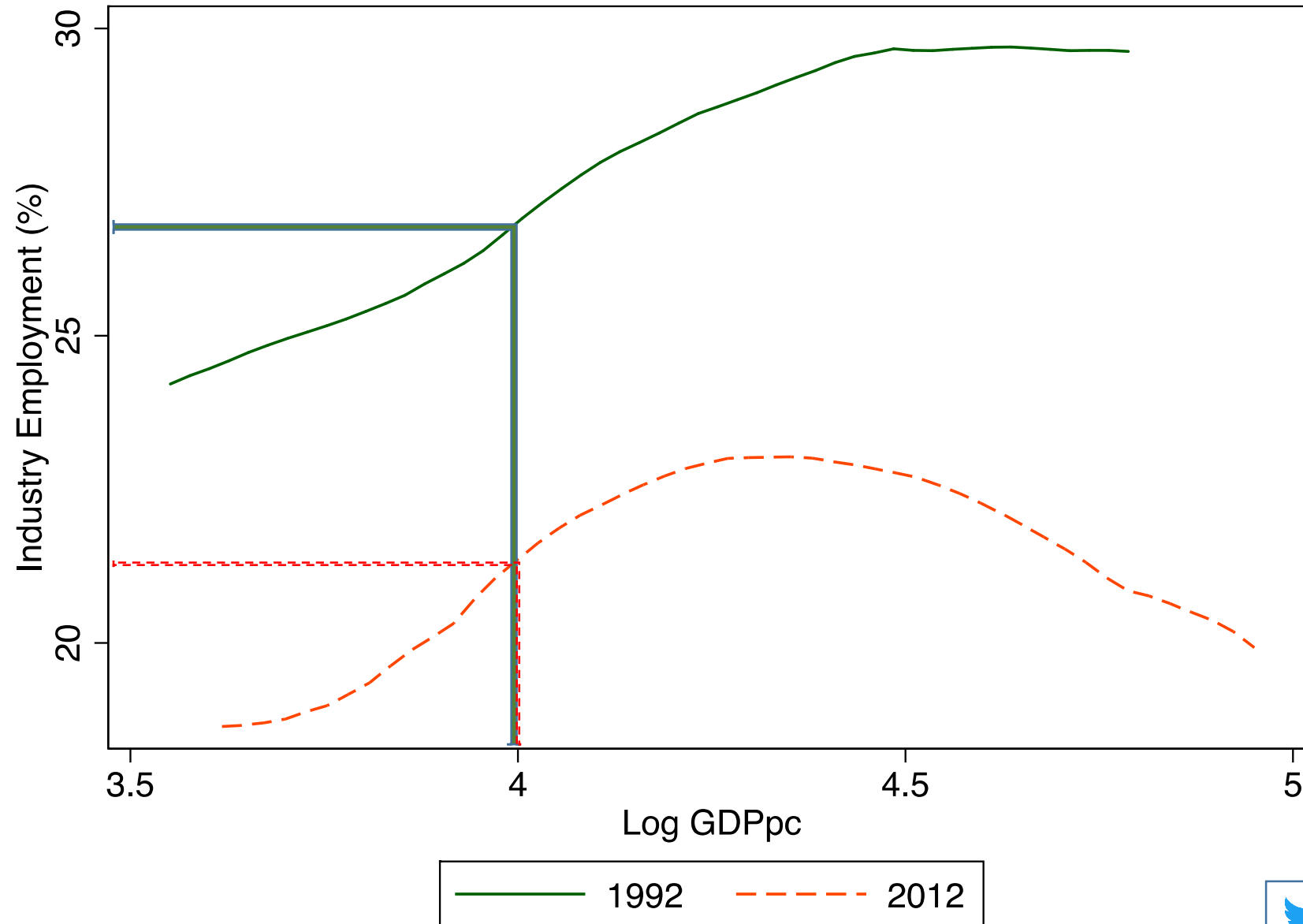
Trade Balance vs. Industry Employment 1995-2010

OECD Countries



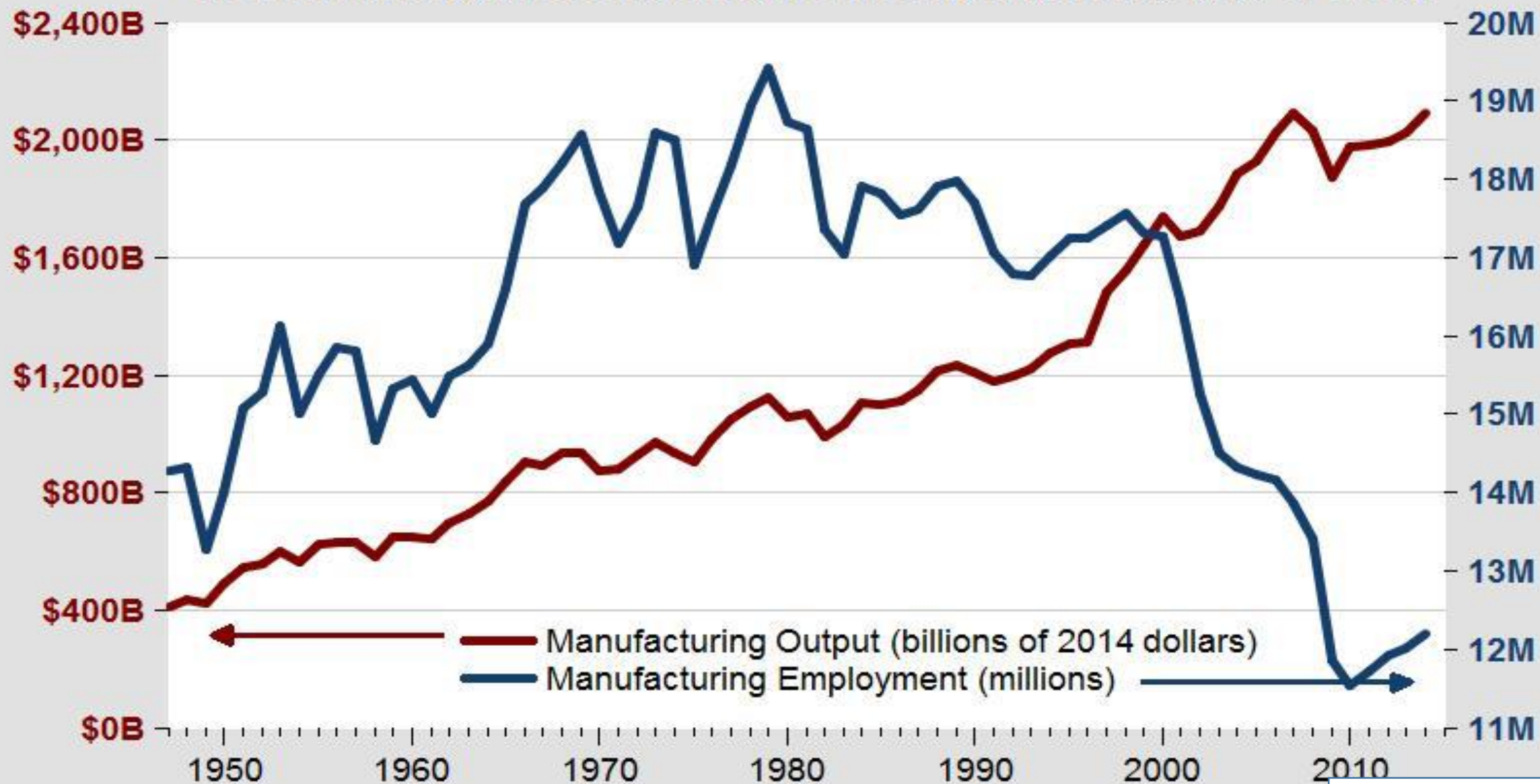
Source: WDI and author's calculation. Prepared by @dany_bahar

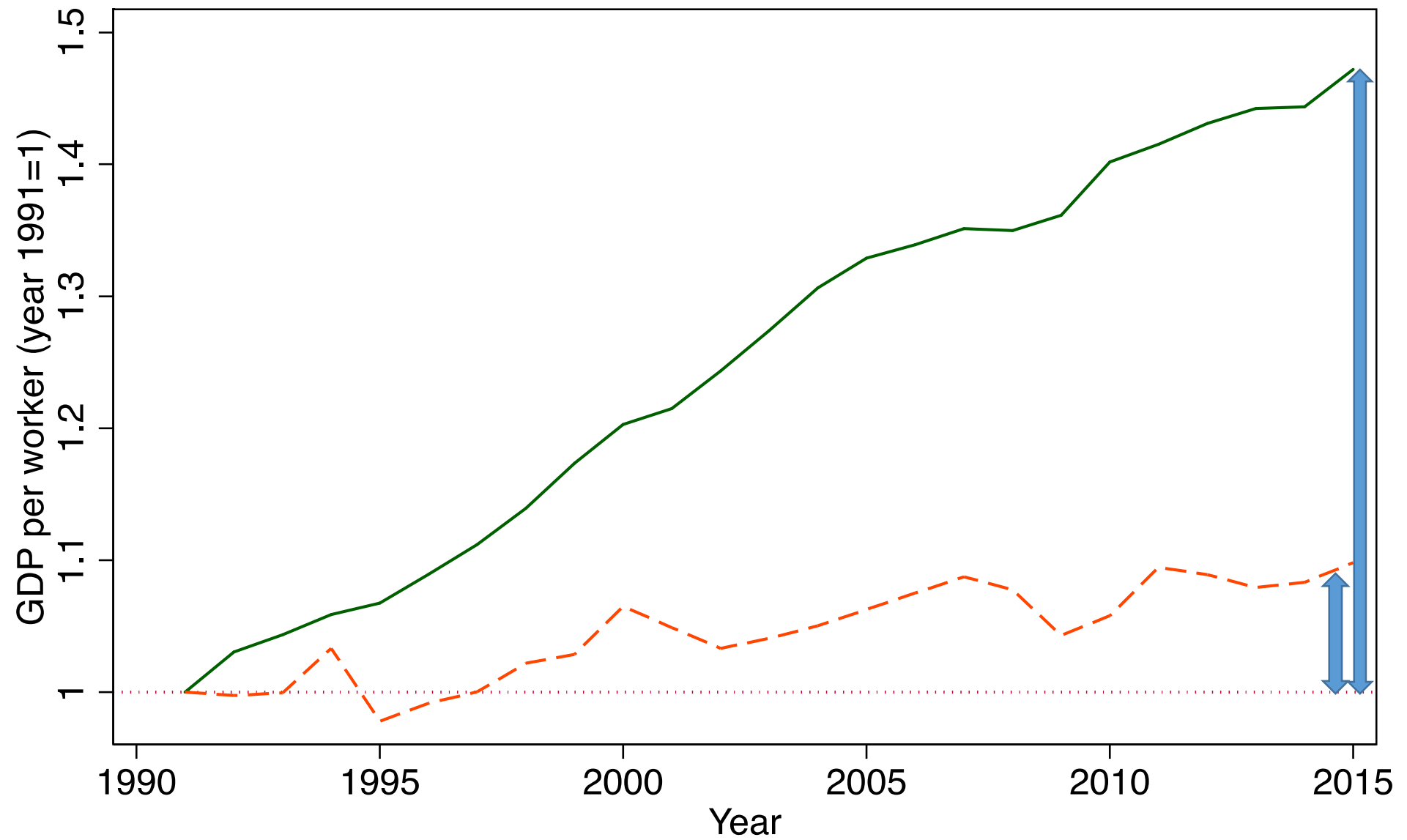
Share of employment in industry on negative trend



productivity

US Real Manufacturing Output vs. Employment, 1947 to 2014





— USA - - - Mexico

Source: WDI

 @dany_bahar

**It cannot
be THAT
simple...**



TABLE 5.—DIFFERENCES BETWEEN INITIAL-TARIFF AND IMPACT EFFECT,
EXCLUDING AGRICULTURE

| Parameter Difference | Point Estimate | F-Value |
|--|----------------|---------|
| <i>Location effect</i> | | |
| Less than high school, $\delta_{2,lhs} - \delta_{4,lhs}$ | −2.110*** | 11.59 |
| High school graduate, $\delta_{2,hs} - \delta_{4,hs}$ | −0.915** | 6.48 |
| Some college, $\delta_{2,scol} - \delta_{4,scol}$ | −1.538*** | 7.51 |
| College graduate, $\delta_{2,col} - \delta_{4,col}$ | −0.936 | 1.46 |
| <i>Industry effect</i> | | |
| Less than high school, $\theta_{2,lhs} - \theta_{4,lhs}$ | −2.143*** | 16.33 |
| High school graduate, $\theta_{2,hs} - \theta_{4,hs}$ | −1.232*** | 6.76 |
| Some college, $\theta_{2,scol} - \theta_{4,scol}$ | −1.131*** | 6.90 |
| College graduate, $\theta_{2,col} - \theta_{4,col}$ | −0.302 | 0.11 |

The table reports the overall impact on wages (computed as a difference between initial-tariff and impact effect reported in column 2 of table 4) and its significance for each education group when a location or an industry loses all of its protection within the sample period. Significant at ***1%, **5%, *10%.

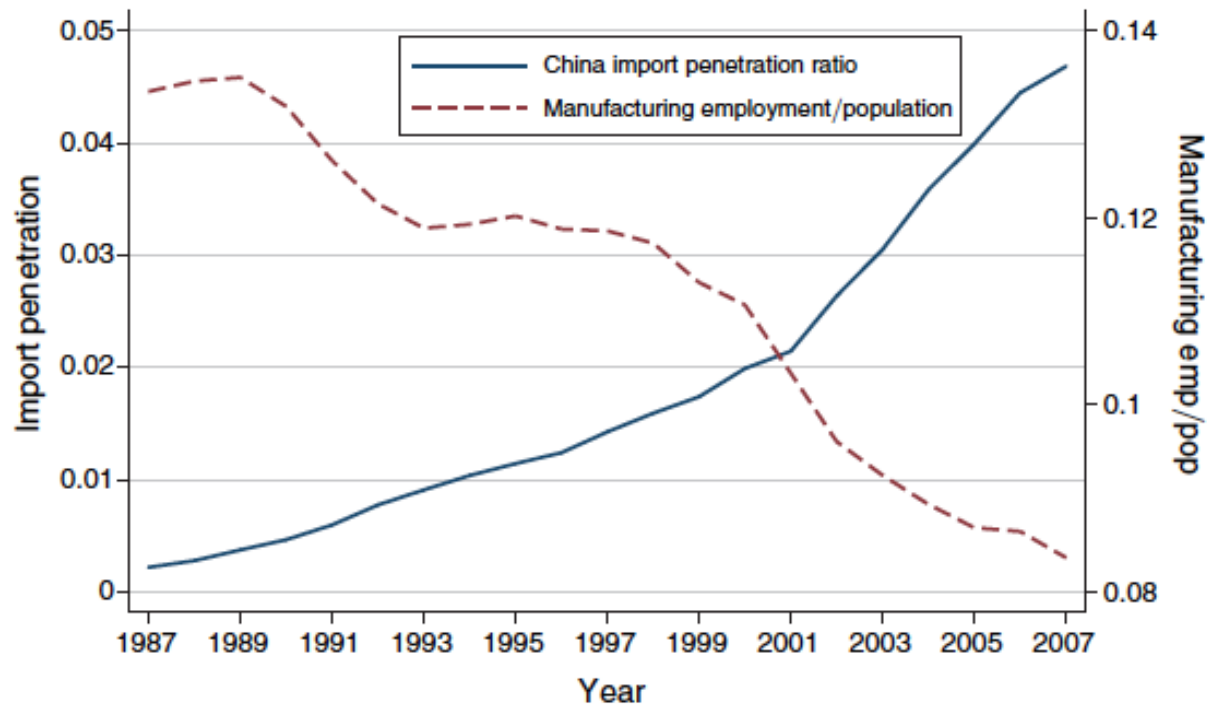


FIGURE 1. IMPORT PENETRATION RATIO FOR US IMPORTS FROM CHINA (*left scale*), AND SHARE OF US WORKING-AGE POPULATION EMPLOYED IN MANUFACTURING (*right scale*)

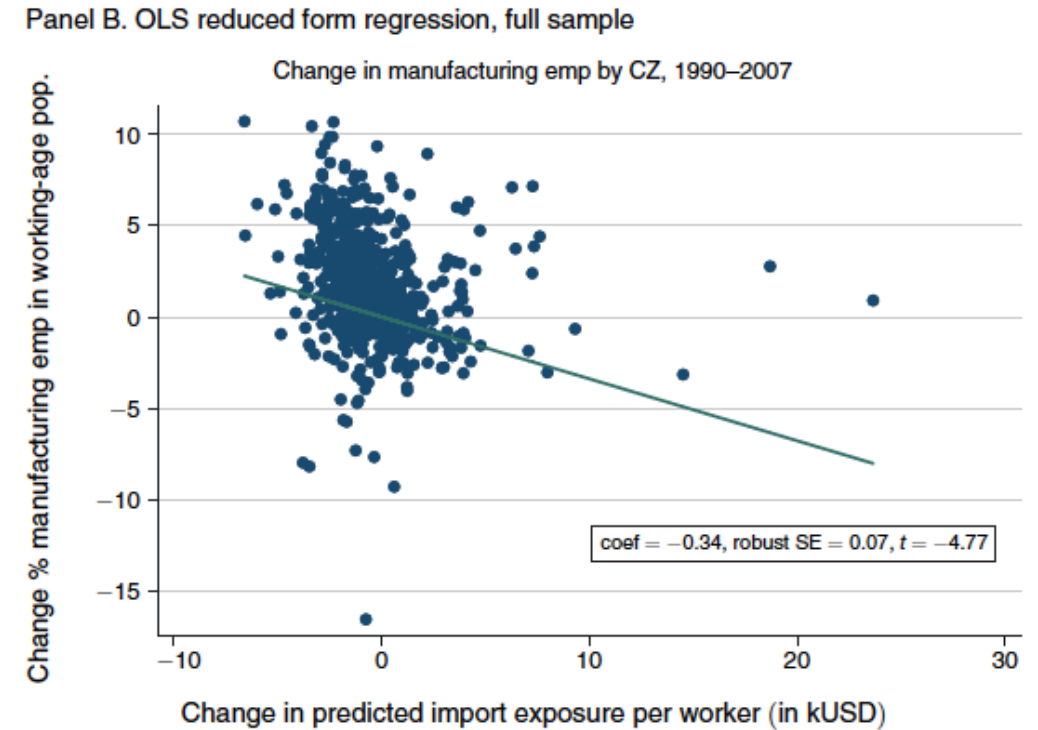


FIGURE 2. CHANGE IN IMPORT EXPOSURE PER WORKER AND DECLINE OF MANUFACTURING EMPLOYMENT: ADDED VARIABLE PLOTS OF FIRST STAGE AND REDUCED FORM ESTIMATES

Commuting zones in the 75th percentile of exposure to Chinese imports is experienced to lose 4.5% of manufacturing jobs as compared to a CZ in 25th percentile.

Autor, Dorn and Hanson (AER 2013)



**How do we maintain the balance between
integration and prosperity for all?**



”Some suggest trade is problematic because it redistributes income. The basis for that claim is true, but trivial. Pretty much everything else that happens in a market economy somehow redistributes income” (...)

”[C]ertain kinds of international competition can undermine domestic norms with regards to what’s an acceptable redistribution...”

Three reasons on why curbing trade could be highly detrimental

1

We are all highly dependent on trade to be able to export more, be more competitive and create more jobs

Partners Across The Globe Are Bringing The 787 Together

787 DREAMLINER

THE COMPANIES

U.S.

Boeing
Spirit
Vought
GE
Goodrich

CANADA

Boeing
Messier-Dowty

AUSTRALIA

Boeing

JAPAN

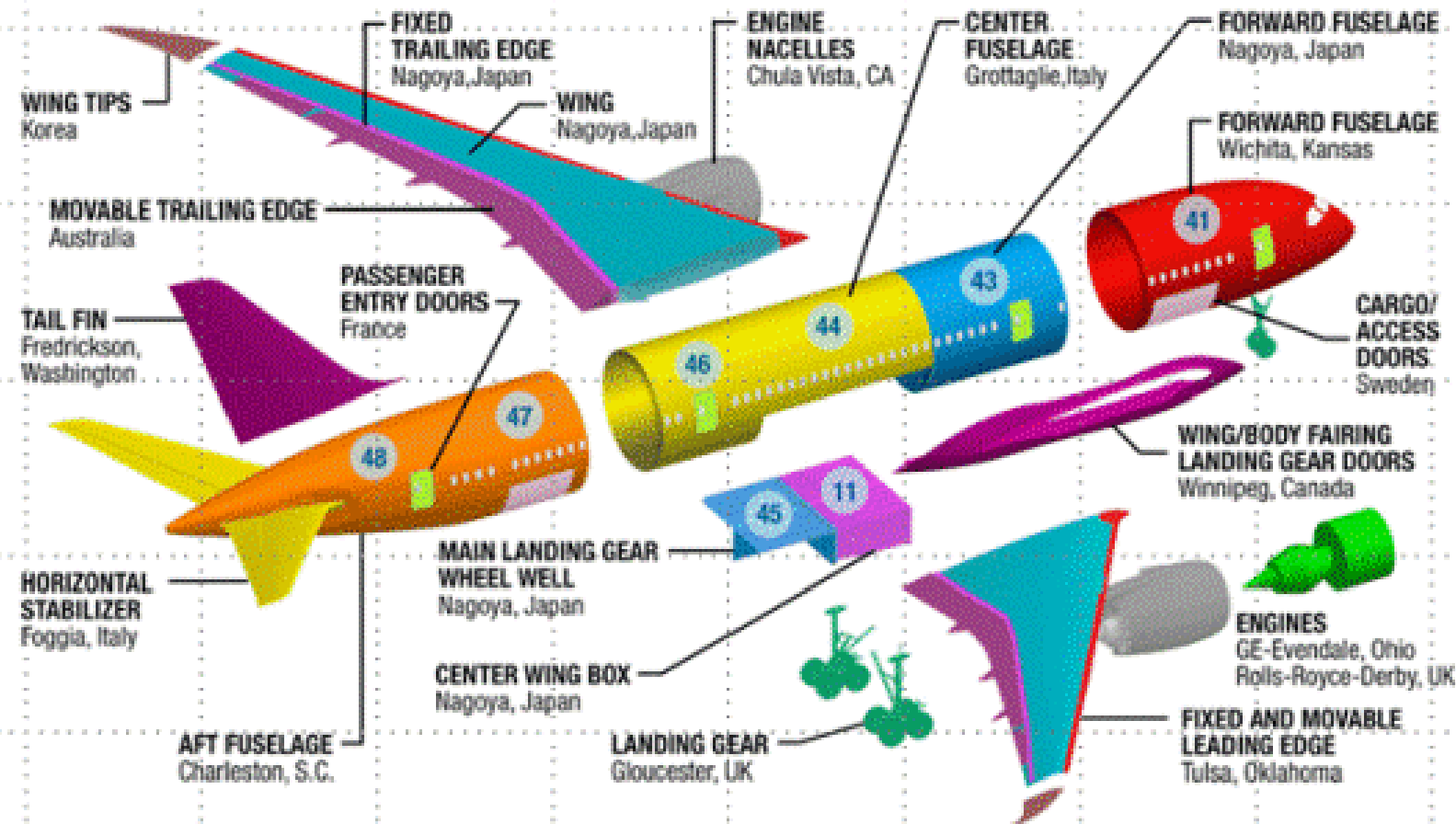
Kawasaki
Mitsubishi
Fuji

KOREA

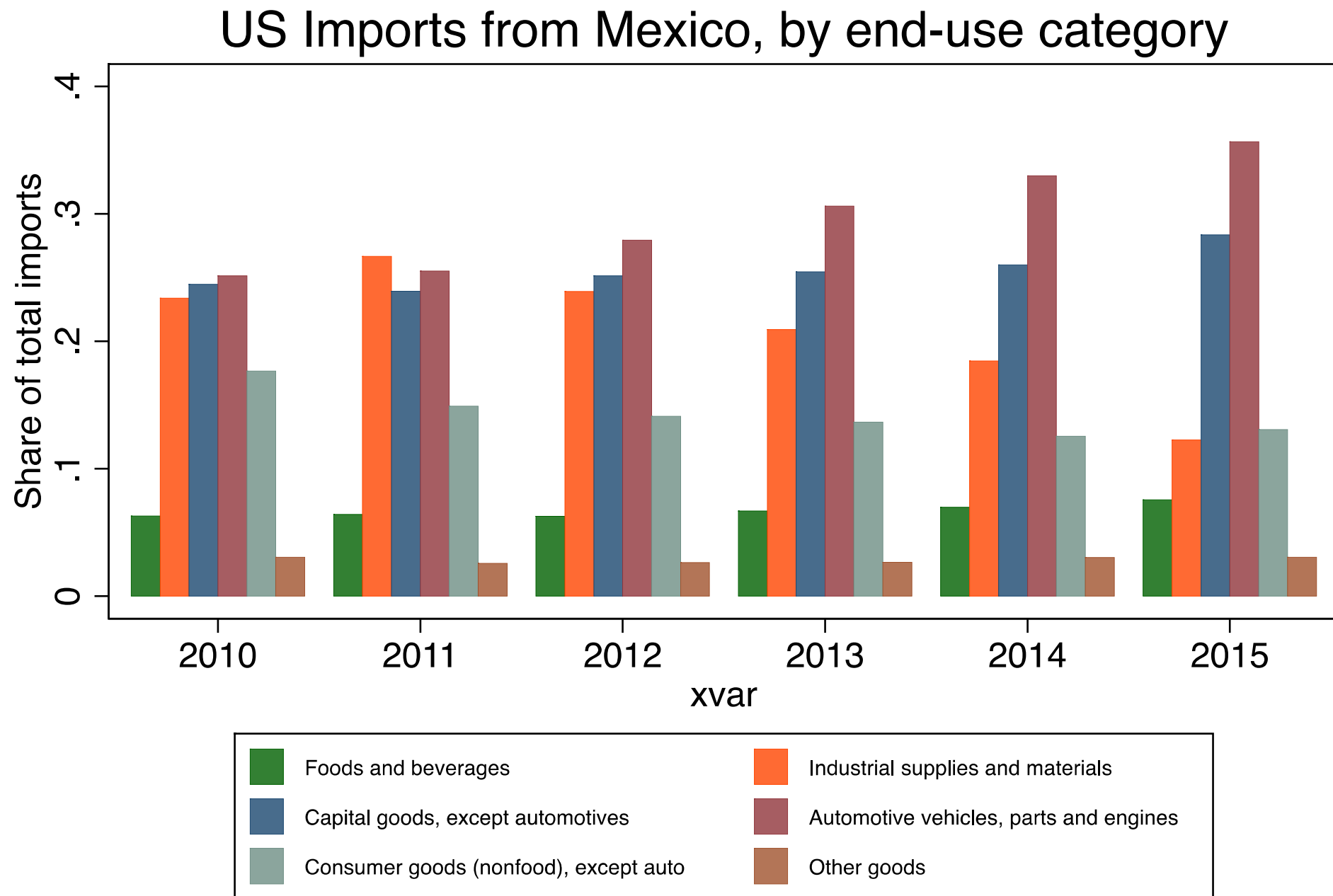
KAL-ASD

EUROPE

Messier-Dowty
Rolls-Royce
Latecoere
Alenia
Saab



Looking at imports by end-use, over 50% of imports from Mexico are intermediate goods

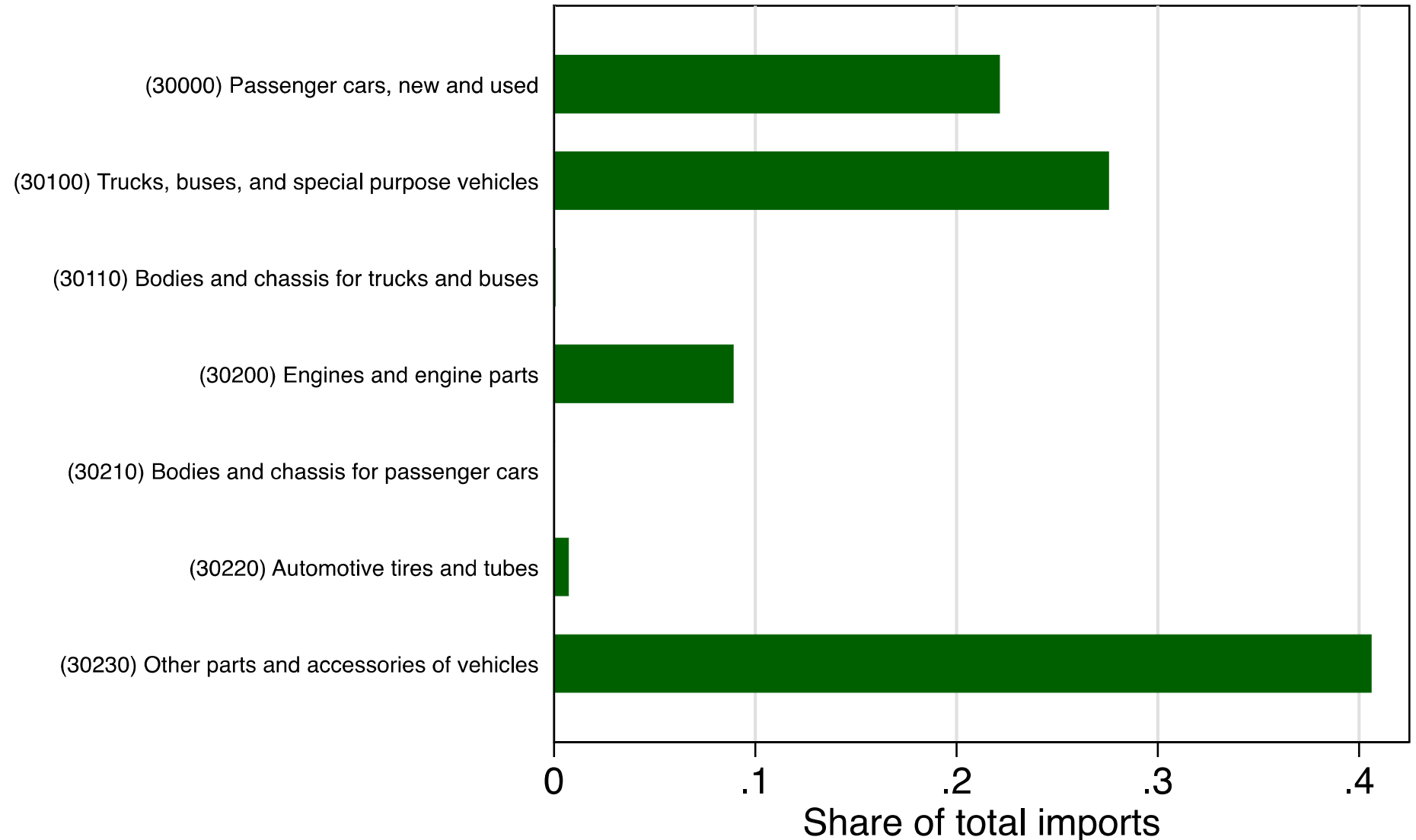


Source: US Census and author's calculation

Even within
the auto
category,
almost half
imports
engines and
other parts
and
accessories

US Imports from Mexico, Year 2015

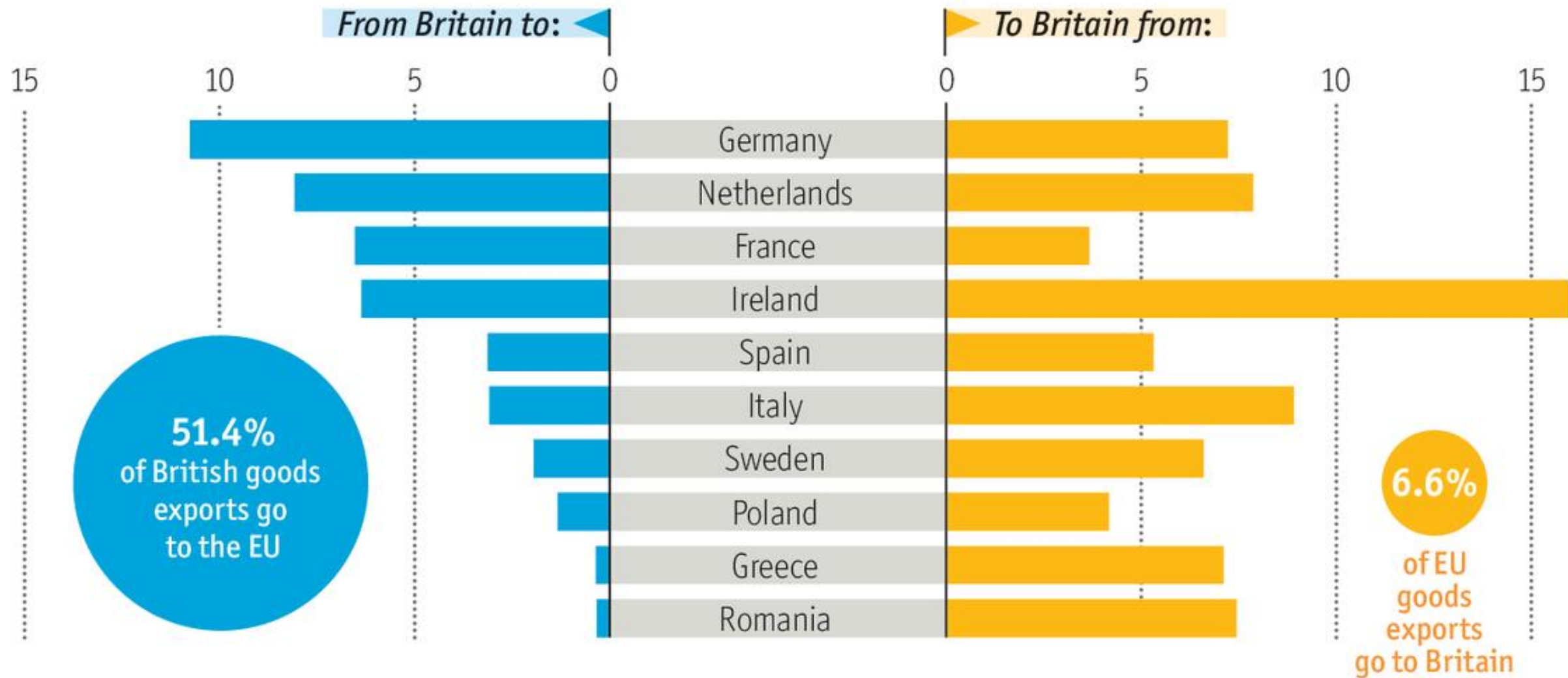
Automotive vehicles, parts and engines



Source: US Census and author's calculation

They need each other

Exports of goods between Britain and EU, 2014, % of national totals



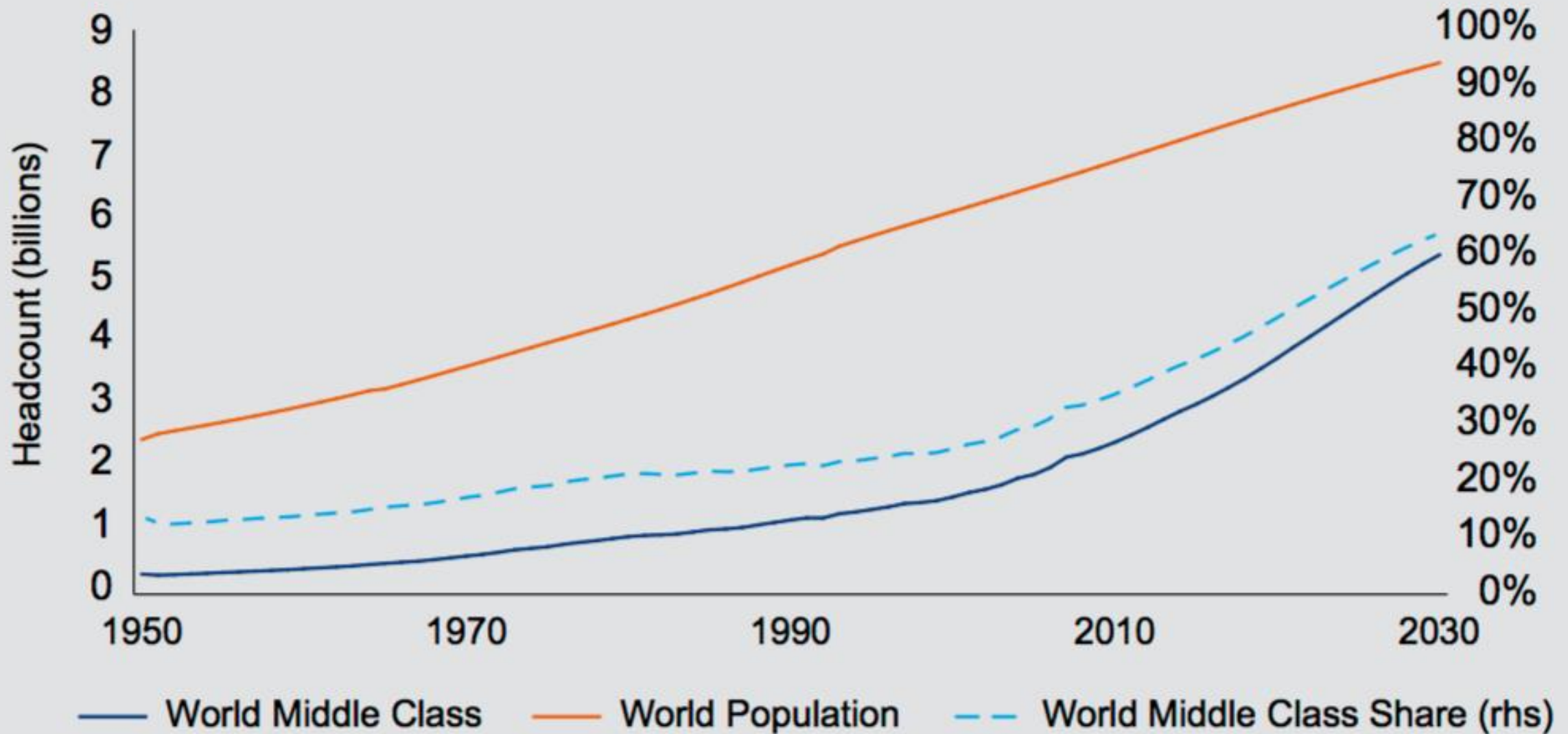
Three reasons on why curbing trade could be highly detrimental

2

Trade has helped consumers to increase their purchasing power significantly.

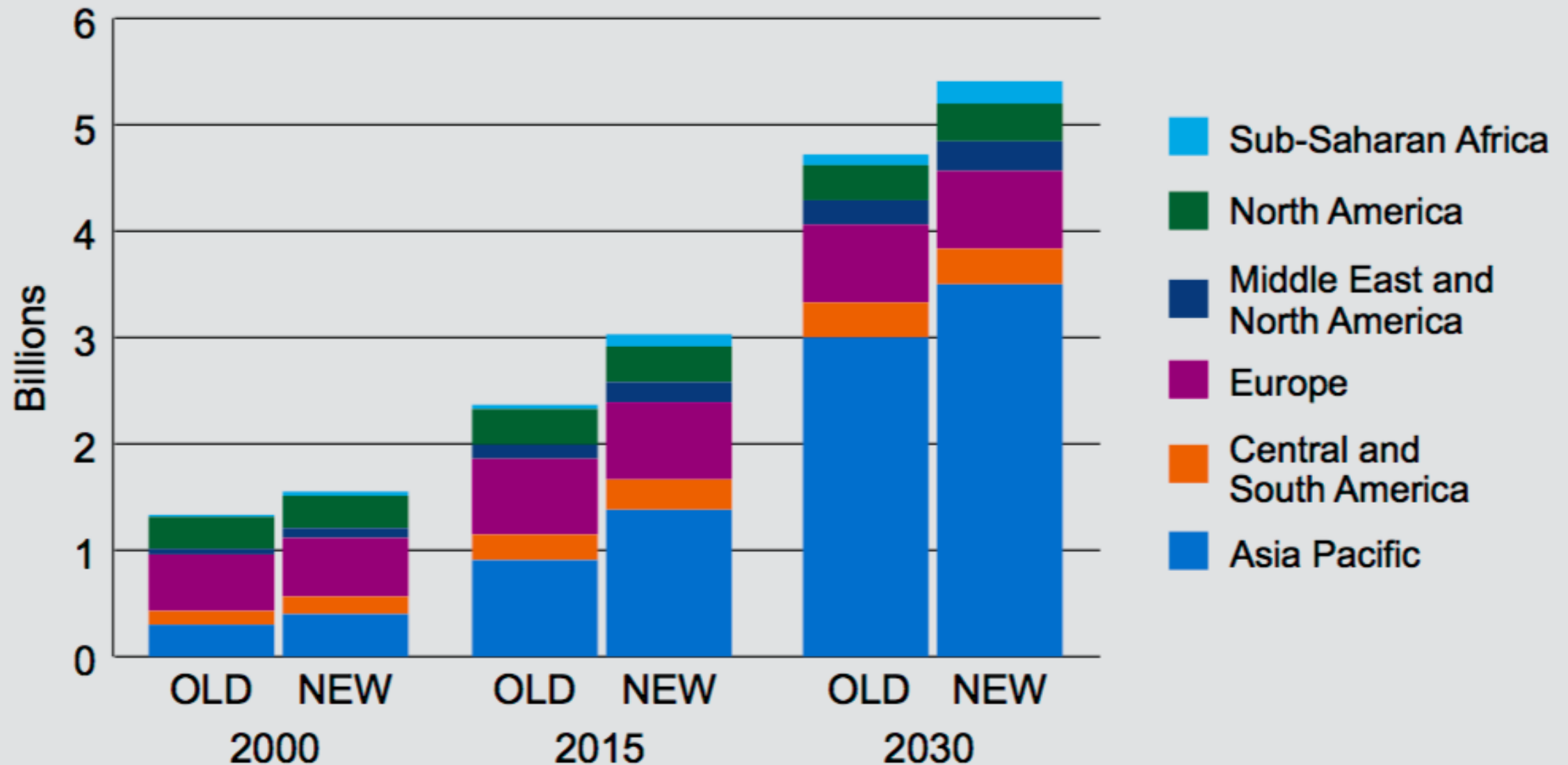
Consumer also matters!

Figure 5. Estimates of the size of the global middle class, 1950-2030 (billions)



Source: Author's calculations

Figure 4. The size of the global middle class, 2000, 2015, and 2030 (billion people)



Source: Author's calculations

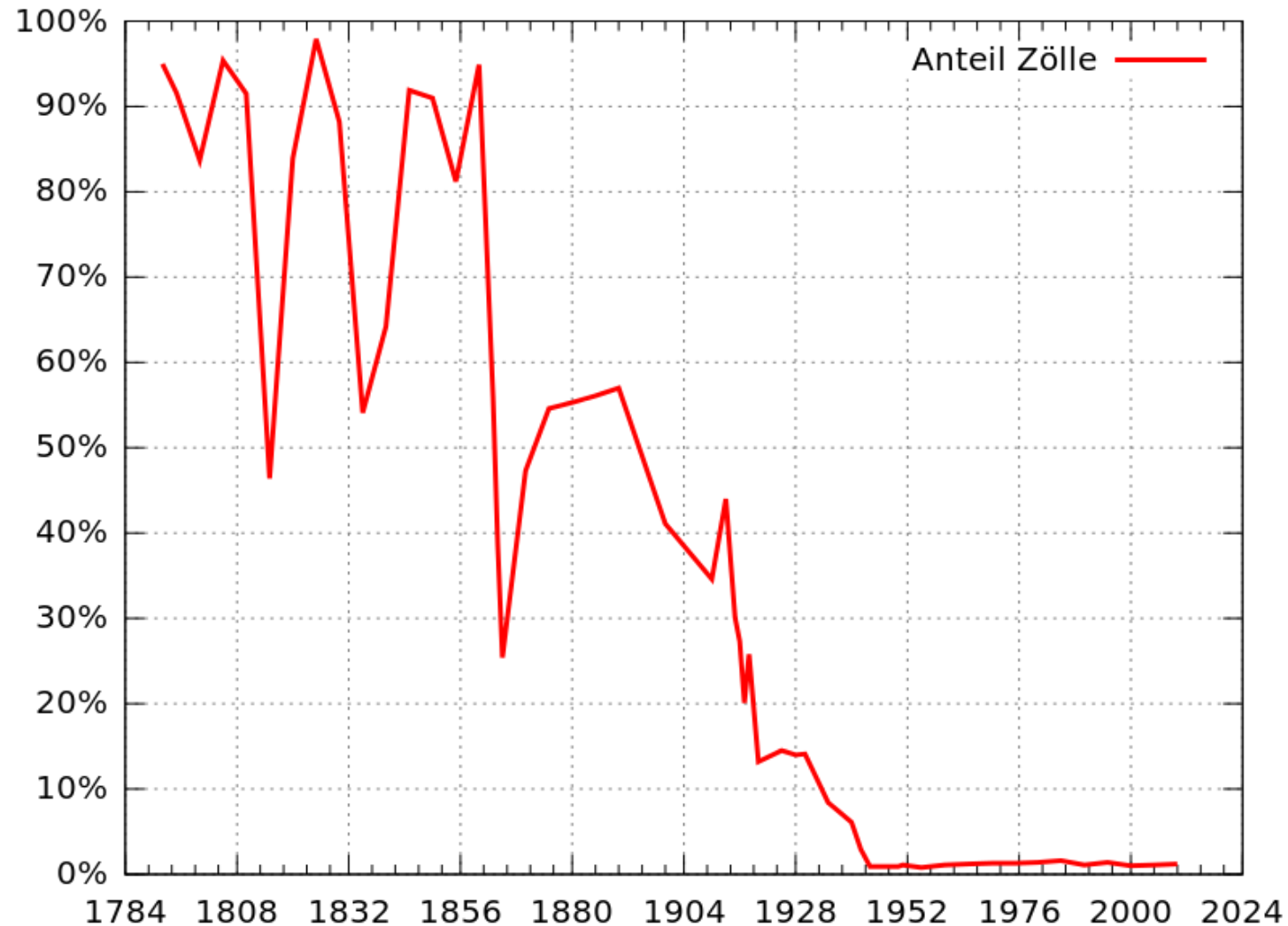


35% !!!

=



Historic US Import Tariffs



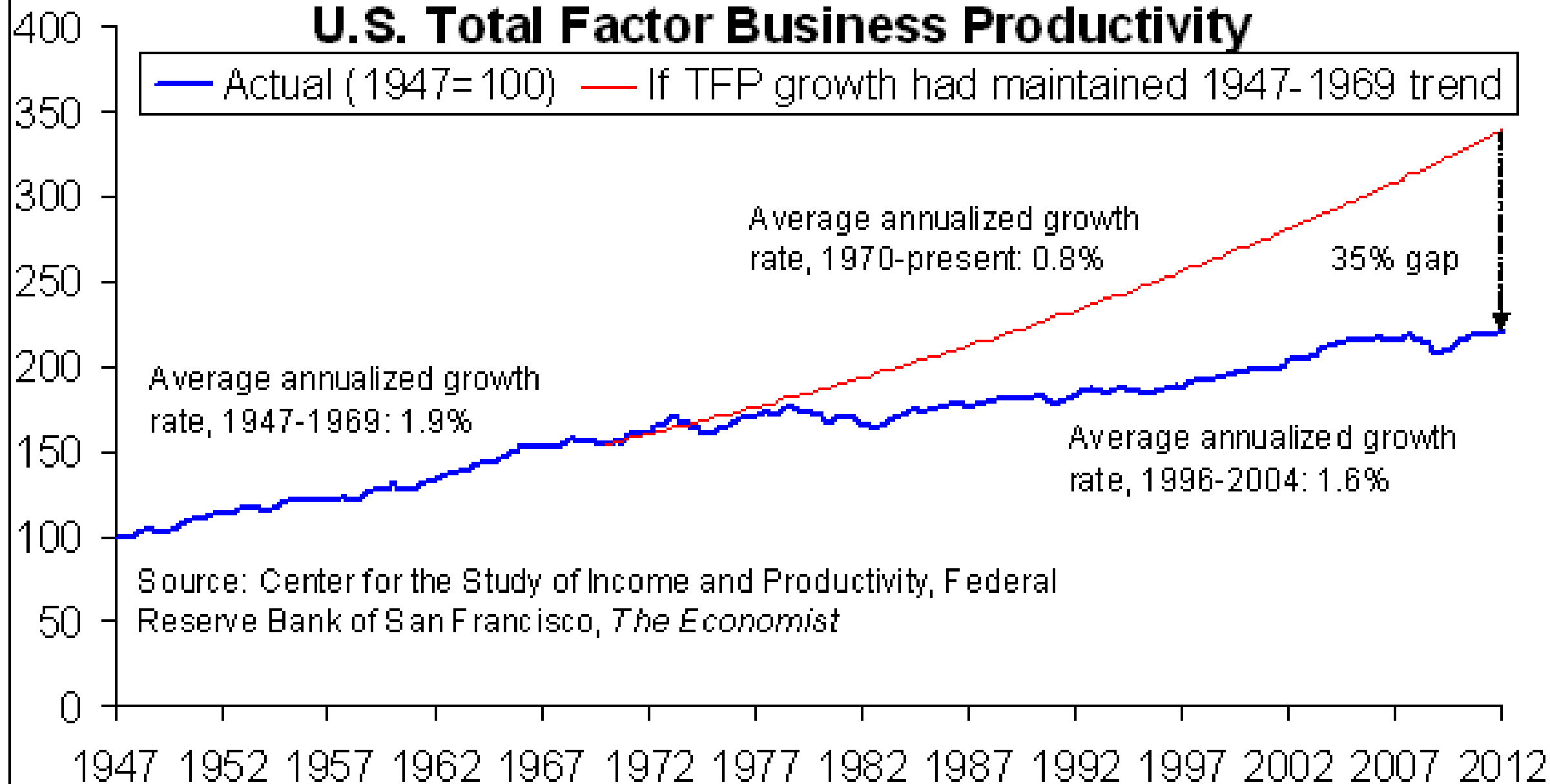
Three reasons on why curbing trade could be highly detrimental

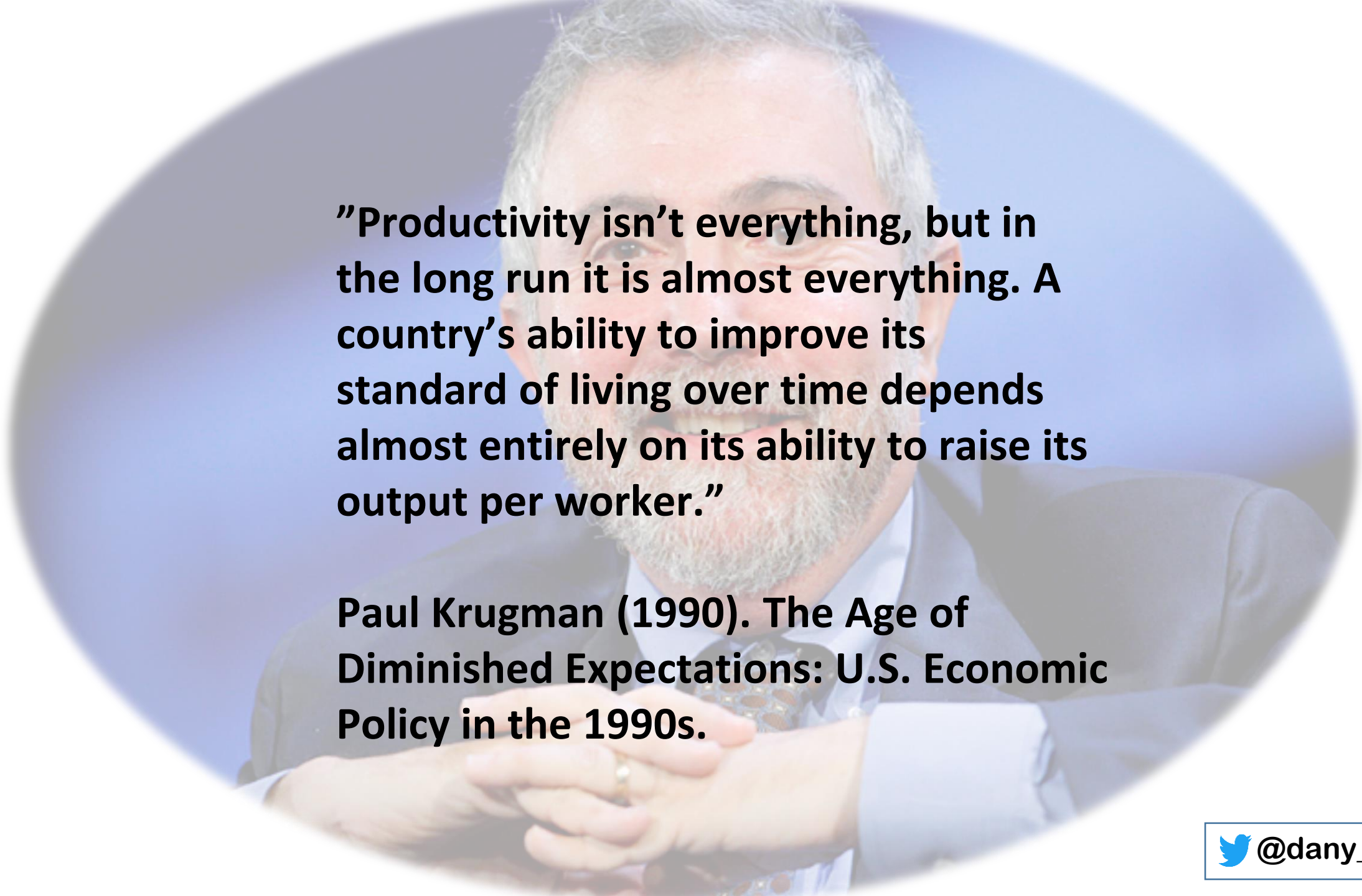
3

Trade raises competition and therefore improves productivity. Productivity differences explain more than half of cross-country income differences

U.S. Total Factor Business Productivity

— Actual (1947=100) — If TFP growth had maintained 1947-1969 trend



A portrait of Paul Krugman, an older man with a grey beard and hair, wearing a suit and tie. He is looking directly at the camera with a slight smile. The background is a soft, out-of-focus blue.

“Productivity isn’t everything, but in the long run it is almost everything. A country’s ability to improve its standard of living over time depends almost entirely on its ability to raise its output per worker.”

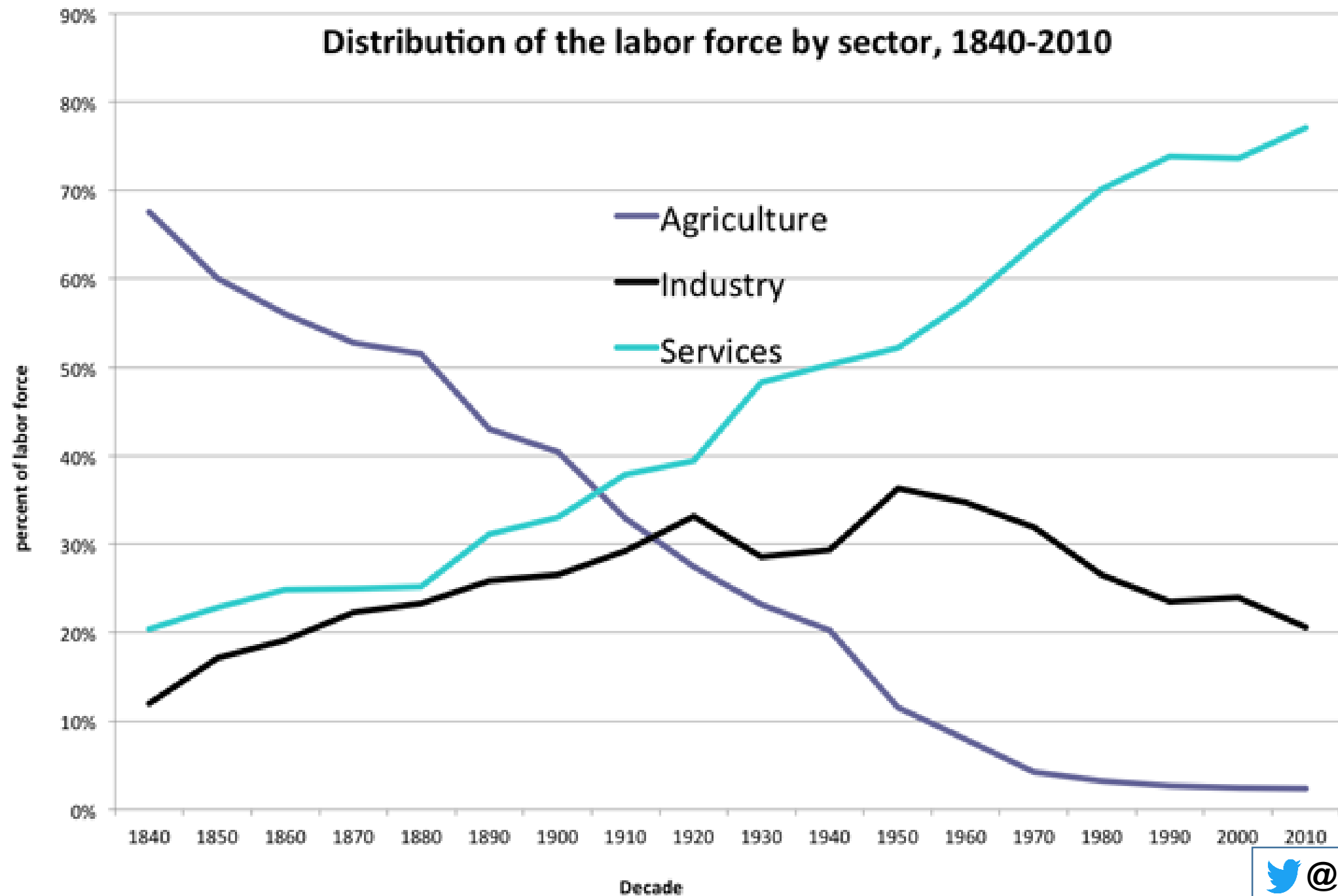
Paul Krugman (1990). The Age of Diminished Expectations: U.S. Economic Policy in the 1990s.

Economic growth = structural transformation

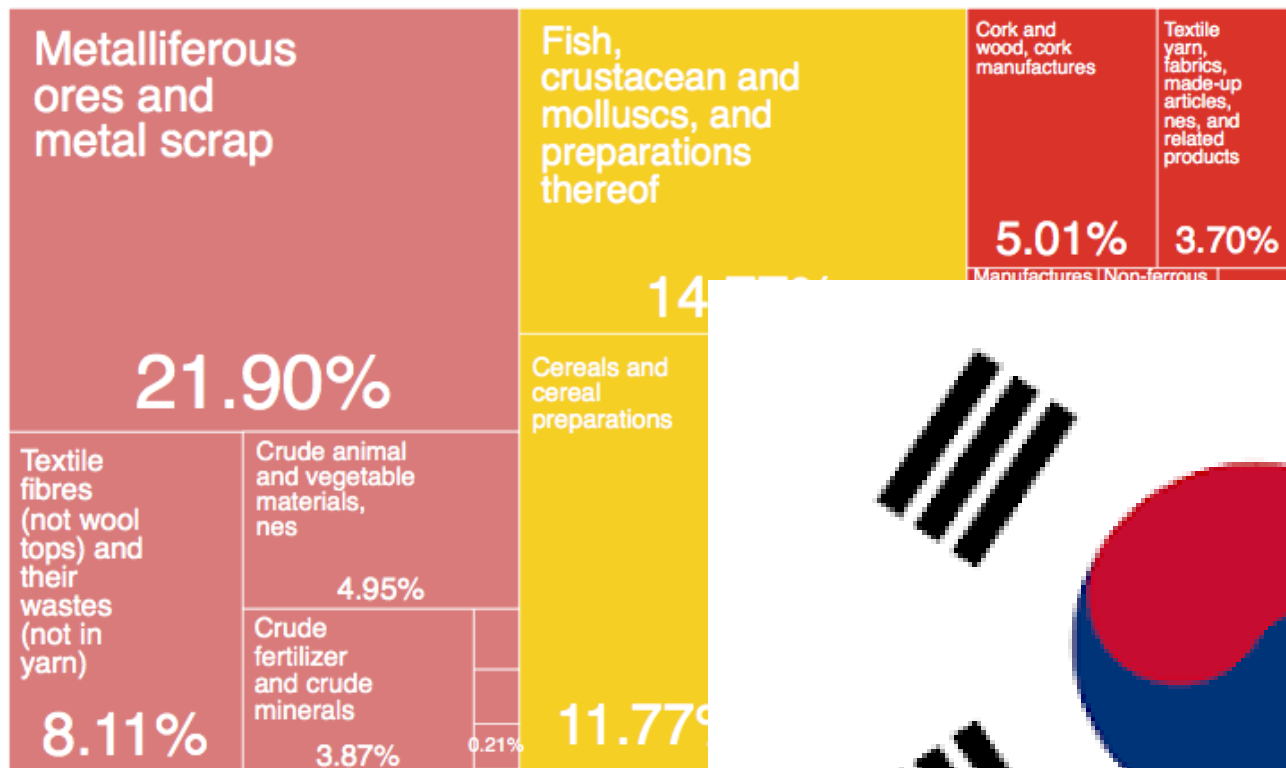
- As countries move towards **more productive** activities, they **grow faster**
- Two components play a role:
 - **Productivity increase** within sectors
 - **Entry, exit and reallocation** of resources from least to more productive sectors



Distribution of the labor force by sector, 1840-2010



\$55.4M

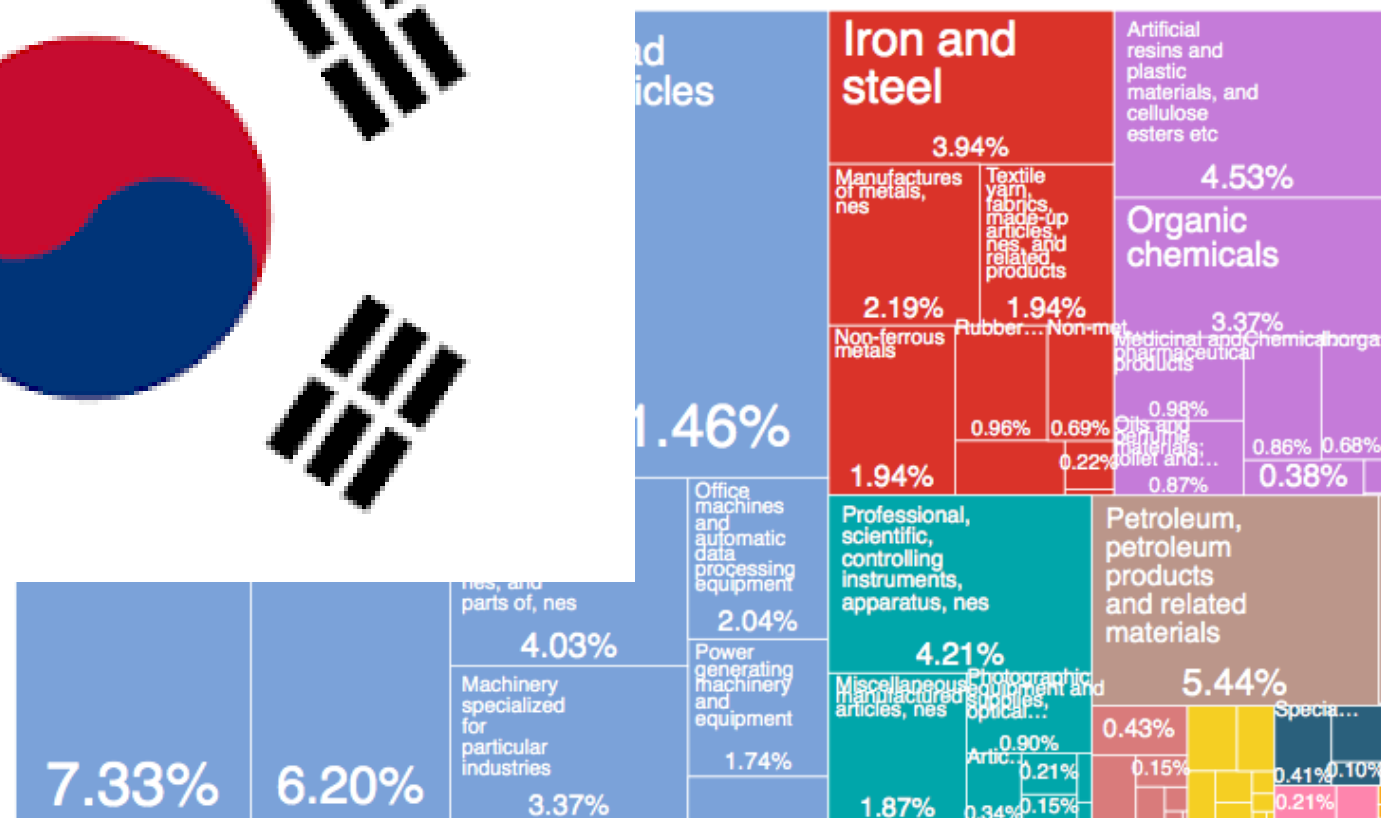


1962



2016

\$520B





What can
governments do?



**The solution is not likely to be found at the
GLOBAL negotiating table, but at home**

wtf?

**What's the
(market)
failure?**

A faint, grayscale background image of a cracked surface, possibly concrete or stone, with several jagged cracks radiating from a central point, suggesting a failure or fracture.



Market failures that stop the “invisible hand”

- Unequal access to economic resources (i.e. credit, full information)
- Social and private returns differ, externalities (i.e. pollution, workers’ trainings, etc.)
- Institutional failures (e.g. corruption, too much or too little regulation, etc.)
- Poor macroeconomics (e.g. inflation or deflation)
- Coordination failures (e.g. lack of infrastructure, lack of complementary markets)

**Is there a
market
failure to be**







```

reghdfe poor_hcr c.trade_pct##c.covr_total_poor lgdp, a(countryid year) cluster(countryid)
(dropped 41 singleton observations)
(converged in 12 iterations)

```

```

HDFE Linear regression                Number of obs   =       146
Absorbing 2 HDFE groups              F(    4,    42) =       4.60
Statistics robust to heteroskedasticity Prob > F        =     0.0036
                                      R-squared         =     0.9947
                                      Adj R-squared      =     0.9913
                                      Within R-sq.       =     0.2927
Number of clusters (countryid) =    43      Root MSE      =     0.0243

```

(Std. Err. adjusted for 43 clusters in countryid)

| | | Coef. | Robust Std. Err. | t | P> t | [95% Conf. Interval] | |
|-------------------------------|--|-----------|------------------|-------|-------|----------------------|-----------|
| poor_hcr | | | | | | | |
| trade_pct | | .0039944 | .001055 | 3.79 | 0.000 | .0018654 | .0061234 |
| covr_total_poor | | .0016658 | .0004342 | 3.84 | 0.000 | .0007895 | .002542 |
| c.trade_pct#c.covr_total_poor | | -.0000568 | .0000179 | -3.18 | 0.003 | -.0000929 | -.0000207 |
| lgdp | | -.1639551 | .0834841 | -1.96 | 0.056 | -.3324327 | .0045226 |

Absorbed degrees of freedom:

| Absorbed FE | Num. Coefs. | = | Categories | - | Redundant |
|-------------|-------------|---|------------|---|-----------|
| countryid | 0 | | 43 | | 43 * |
| year | 10 | | 11 | | 1 |

* = fixed effect nested within cluster; treated as redundant for DoF computation

**Globalization has taken us far...
but we've understated the losses**

**The challenge ahead is how can
governments and private sector
together can create the proper safety
nets to protect those most vulnerable to
the process**

Thank you

Please feel free to email or follow me at:

dbahar@brookings.edu

 **@dany_bahar**