

# Franco-German Conference

French Economy:  
What Policies to reduce unemployment  
and foster competitiveness?

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# Motivation

- What are the main determinants of unemployment in France?
  - Frictions on the labor market?
  - Demand?
  - Competitiveness?
- Not necessarily equivalent from a policy perspective
- CICE (Crédit d'Impôt Compétitivité Emploi)
  - Tax credit = 6% of gross wage bill (excl labor taxes) below 2.5 x minimum wage (2,800 euro net)
  - Around 20 bn/year
- Reducing labor cost for *all* firms → competitiveness?
  - What's the mean wage of exporters / non-exporters?
    - Tradeable & non-tradable
    - Labor cost in outsourced services
  - How are labor intensive / capital intensive sectors impacted?
  - How do employers and employees share the windfall?
  - Do firms reduce their prices or increase mark ups ?

# Motivation

- Impact on compet of CICE-type reduction in labor cost:
  - Technicalities: tax credit instead of cut in labor taxes
  - Substitution of unskilled/medium skilled to high-skilled labor:
    - Quality down
  - Reduces threshold of exporting for low productive firms (lower wages)
    - Increased participation in export markets
    - Reduced mean value of exports
  - Job creation:
    - Substitution of labor to capital and to imported inputs
    - Substitution of domestic intermediate inputs to foreign sourcing
    - Hiring of less productive workers
  - Mark ups up : favorable to investment (variety, quality, process)
  - Prices down : market shares up, modulo elasticity

# Overview

- What we do
  - Competitiveness in value added
  - Diagnosis of competitiveness problem: price vs quality
- What we find
  - German gains in market shares less impressive in VA
  - Net effect of reduced domestic content and increased exports is positive in terms of generated VA, and the more so for Germany
  - Important positive role of domestic demand for France
  - Specialization and orientation of exports plays limited role
  - Pure competitiveness effects combine price and quality
  - France: Problem of price before crisis and quality afterwards
  - Cost problem fixed in France
  - Policies should now target industrial investment

# Competitiveness in VA

- Global value chains
- Importing cheap inputs is similar to technical progress
  - Increases the productivity of the non-offshored tasks
  - Incomplete pass through increases firms mark ups, investment, product variety and quality
  - Johnson & Noguera (JIE, 2012) – Koopman, Wang & Wei, AER, 2014) – Grossman & Rossi-Hansberg (AER, 2008) – Timmer, Los, Stehrer & de Vries (EP, 2013)
- Imported intermediate inputs
  - Import content reduces exported VA compared to gross exports
  - Import content increases the cost competitiveness of exports and increases the gross exports
  - What about the *net* effect on value added?

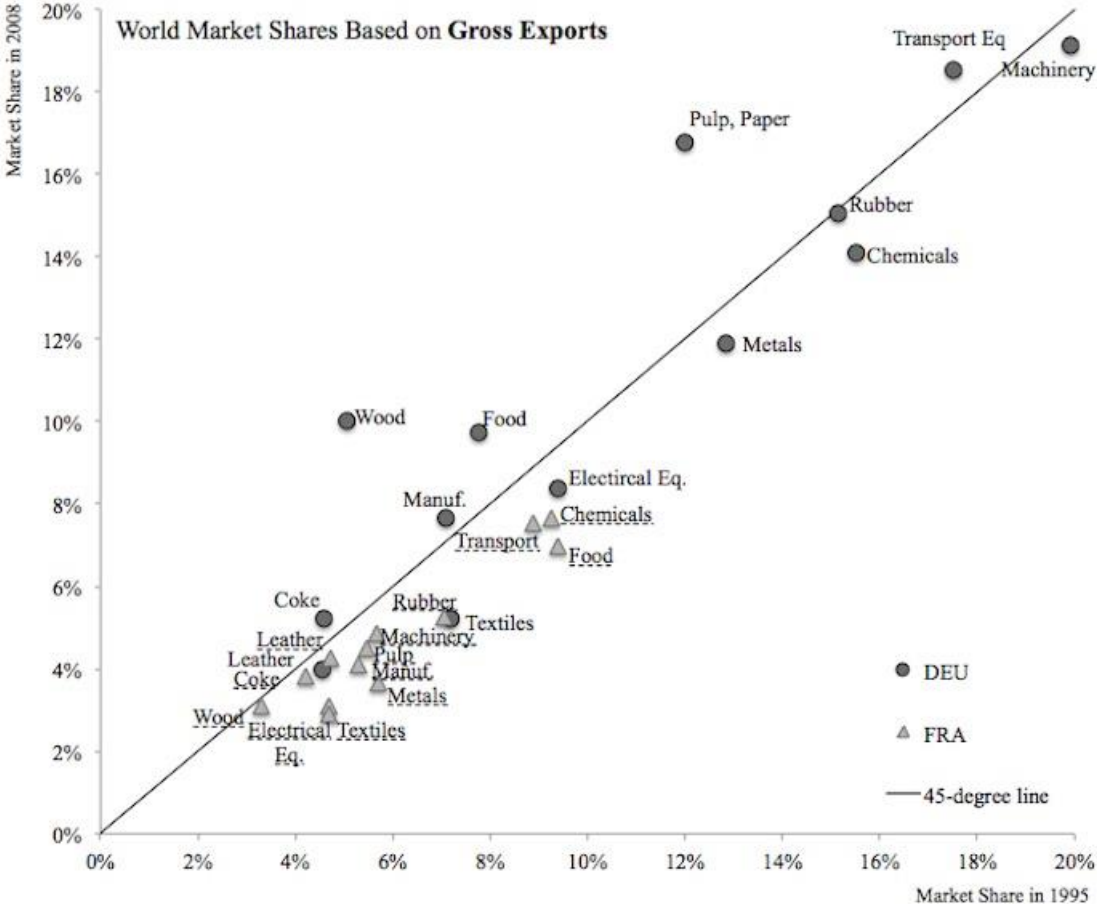
# Competitiveness in VA

- Competitiveness → a sector's share in its respective world market *defined in terms of VA*
- Income earned through:
  - domestic VA contained in domestically produced and consumed final goods;
  - domestically produced exports of final goods directly absorbed by the recipient country;
  - exporting intermediates to a recipient country;
  - sales of intermediates, which are further processed in the recipient country and re-exported to third countries;
  - sales of intermediates further processed in the recipient country and reimported by the source country to produce final products for domestic consumption
- We disregard connections with services sectors: manufactured VA embodied in manufactured exports, not total VA
- Results from CEPII – *Katharina Laengle (2016). Competitiveness in value added – A French-German comparison*

# Competitiveness in VA

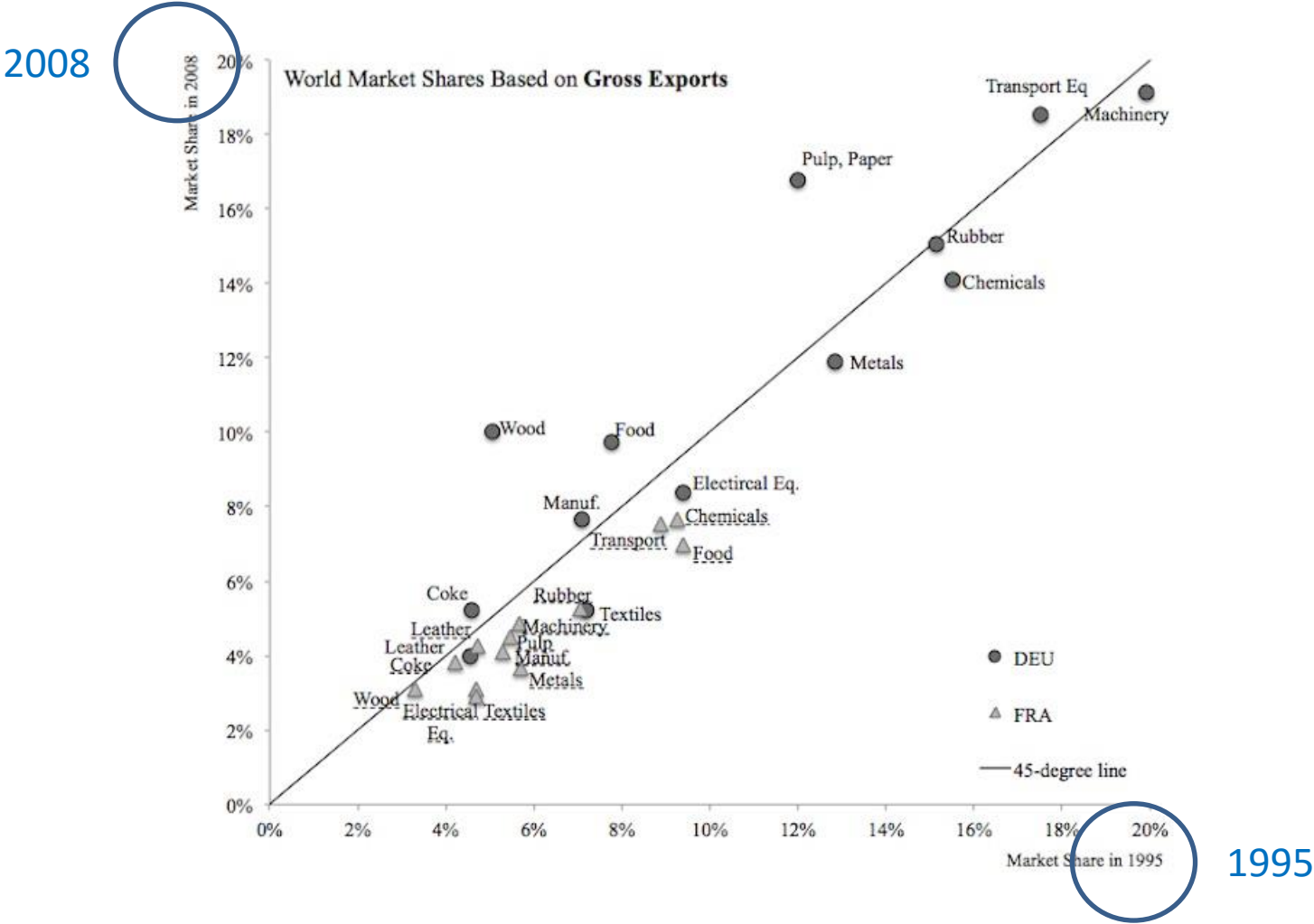
- First step:
  - Compute manuf VA embodied in exports and compare with exports in gross terms
  - 1995 & 2008
  - France and Germany
  - Compare world market shares in gross and VA terms
  - Takes account of *domestic* market
- Second step:
  - Compute manuf VA in *absolute* terms (at 1995 prices)
  - Takes account of enlargement of world market and net effect of:
    - Increasing imported content of exports
    - Pro competitive effect of offshore outsourcing

# World market shares of manufacturing industries in terms of gross exports

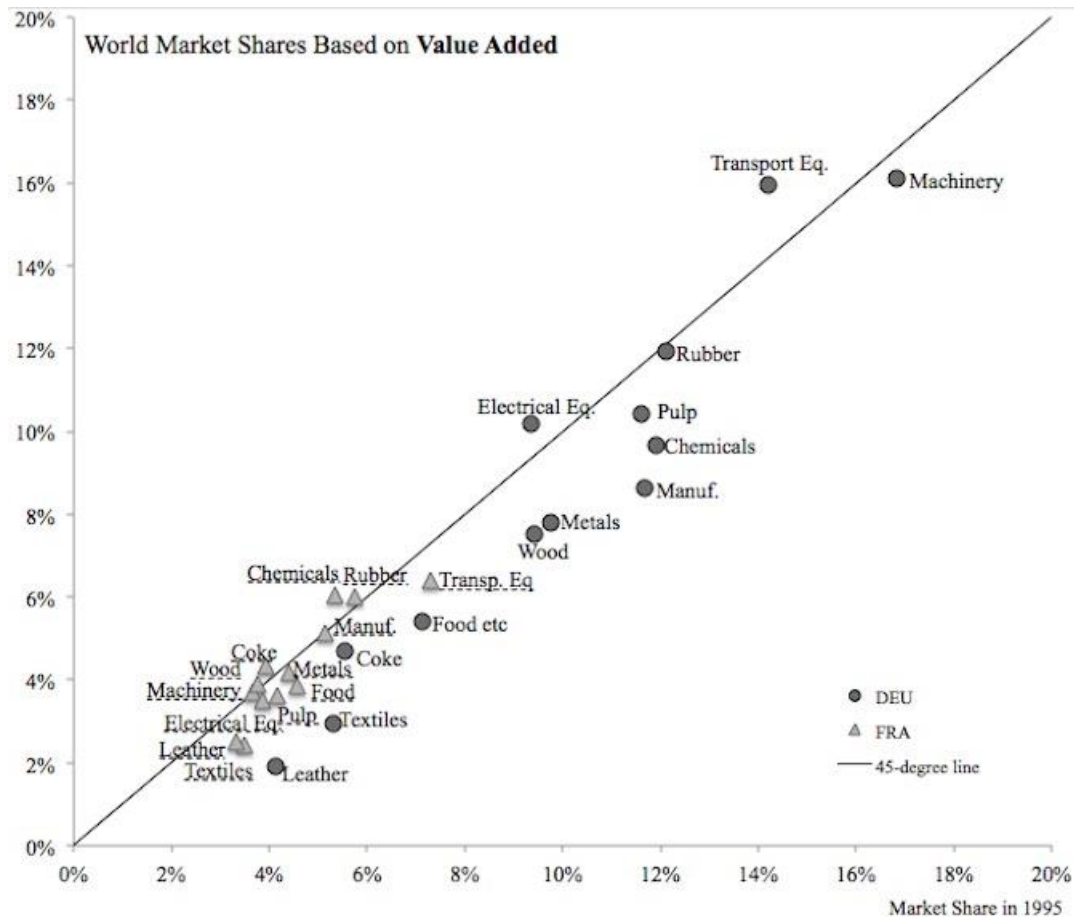


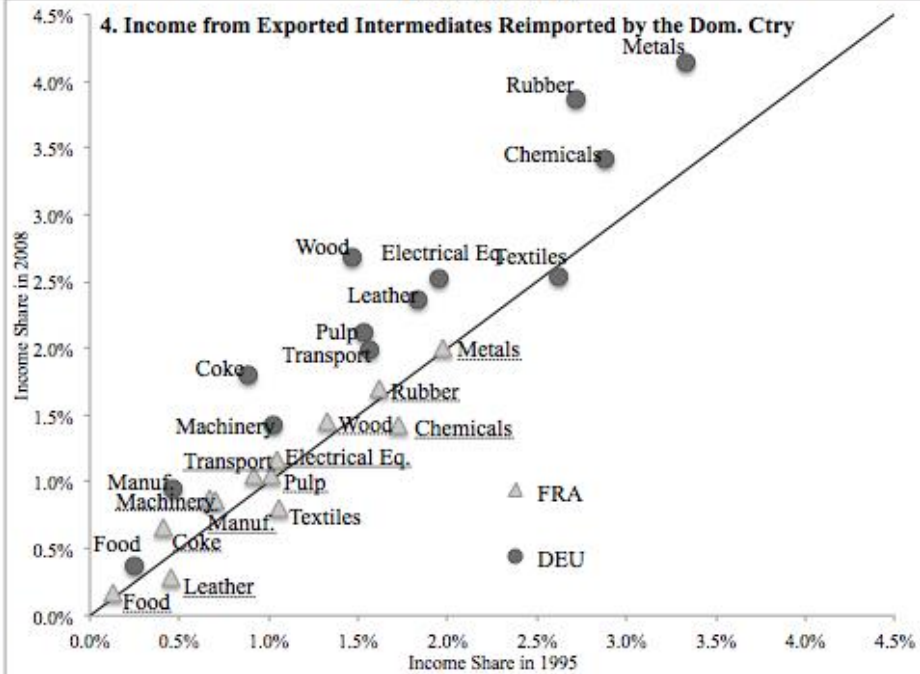
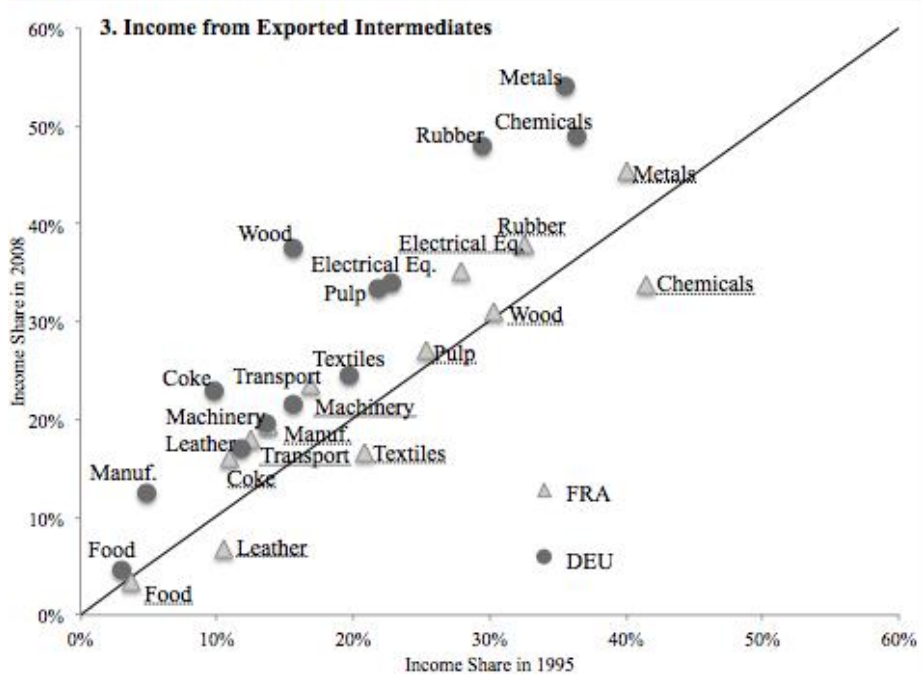
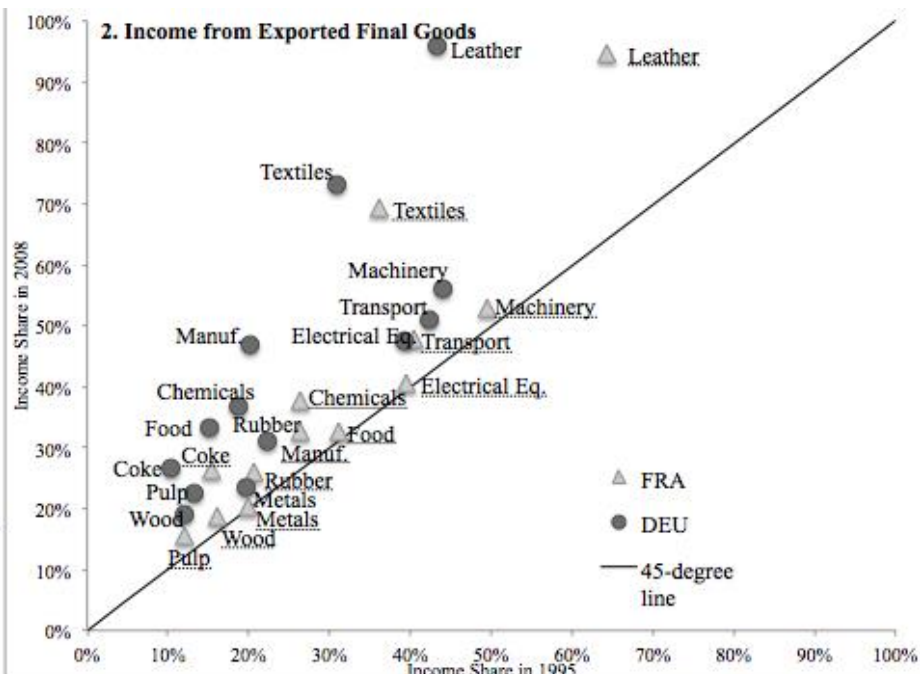
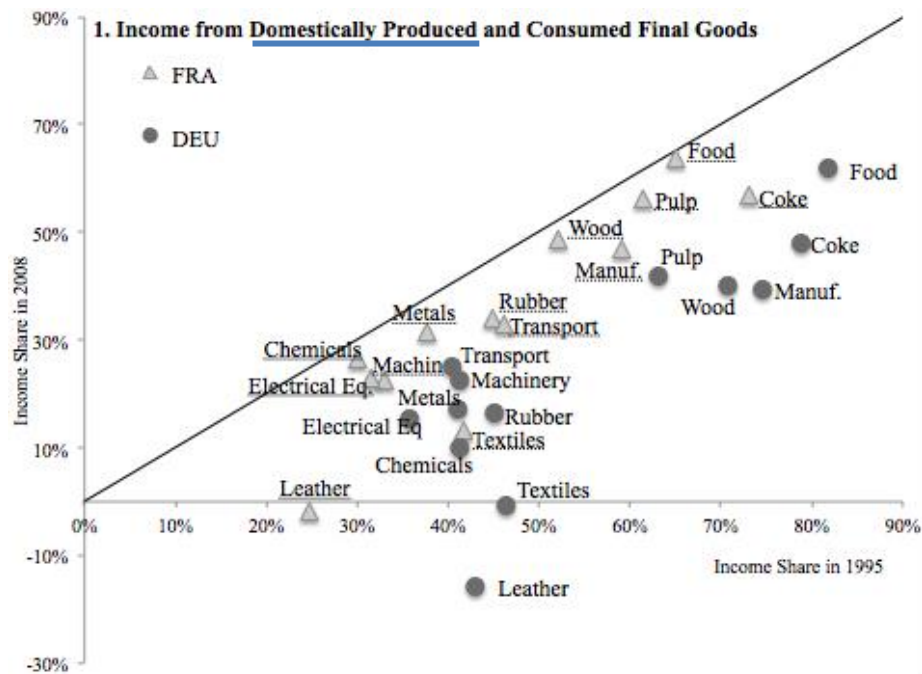


# World market shares of manufacturing industries in terms of gross exports

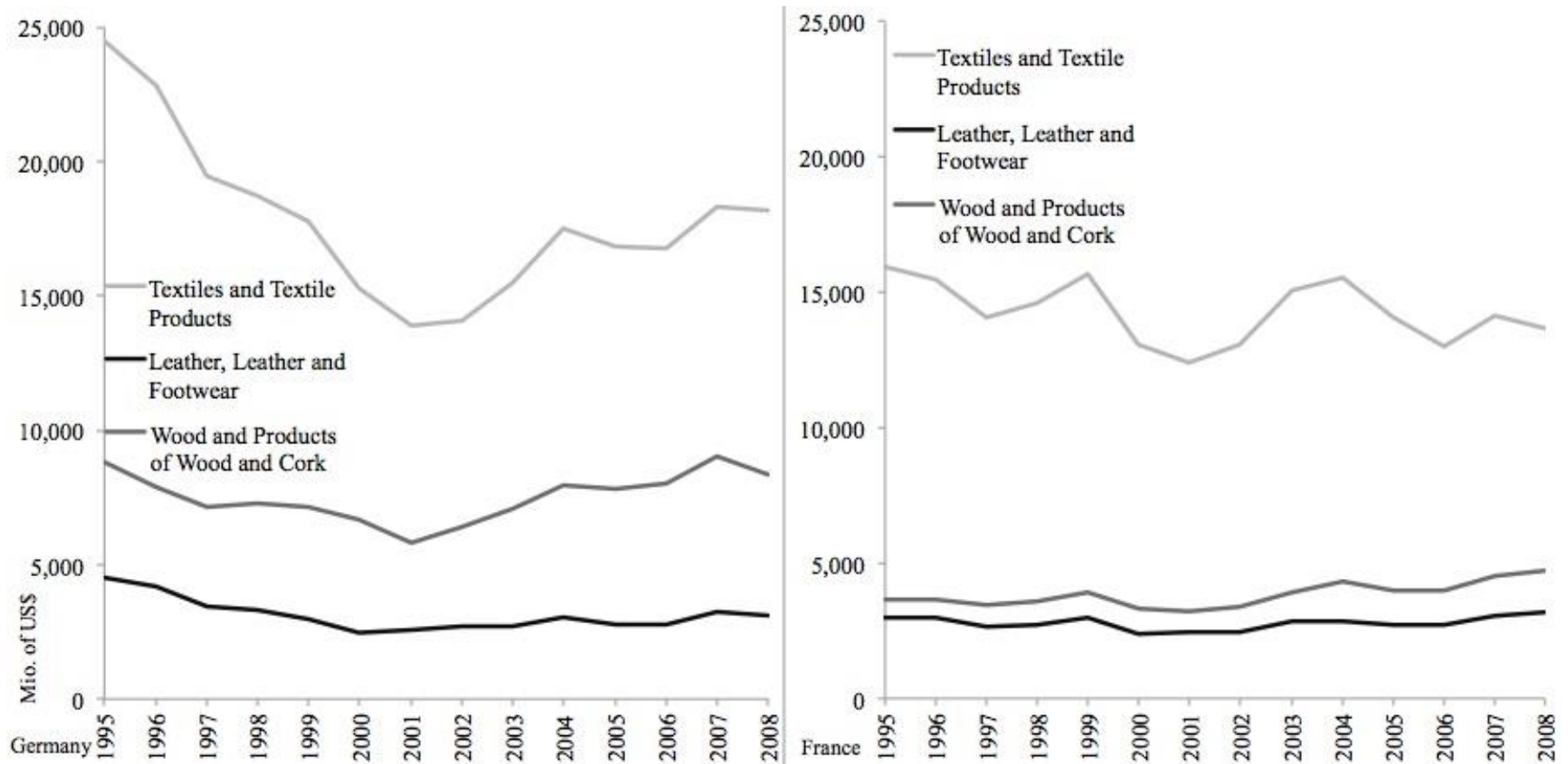


# World Market Shares of Manufacturing Industries in Terms of Value Added

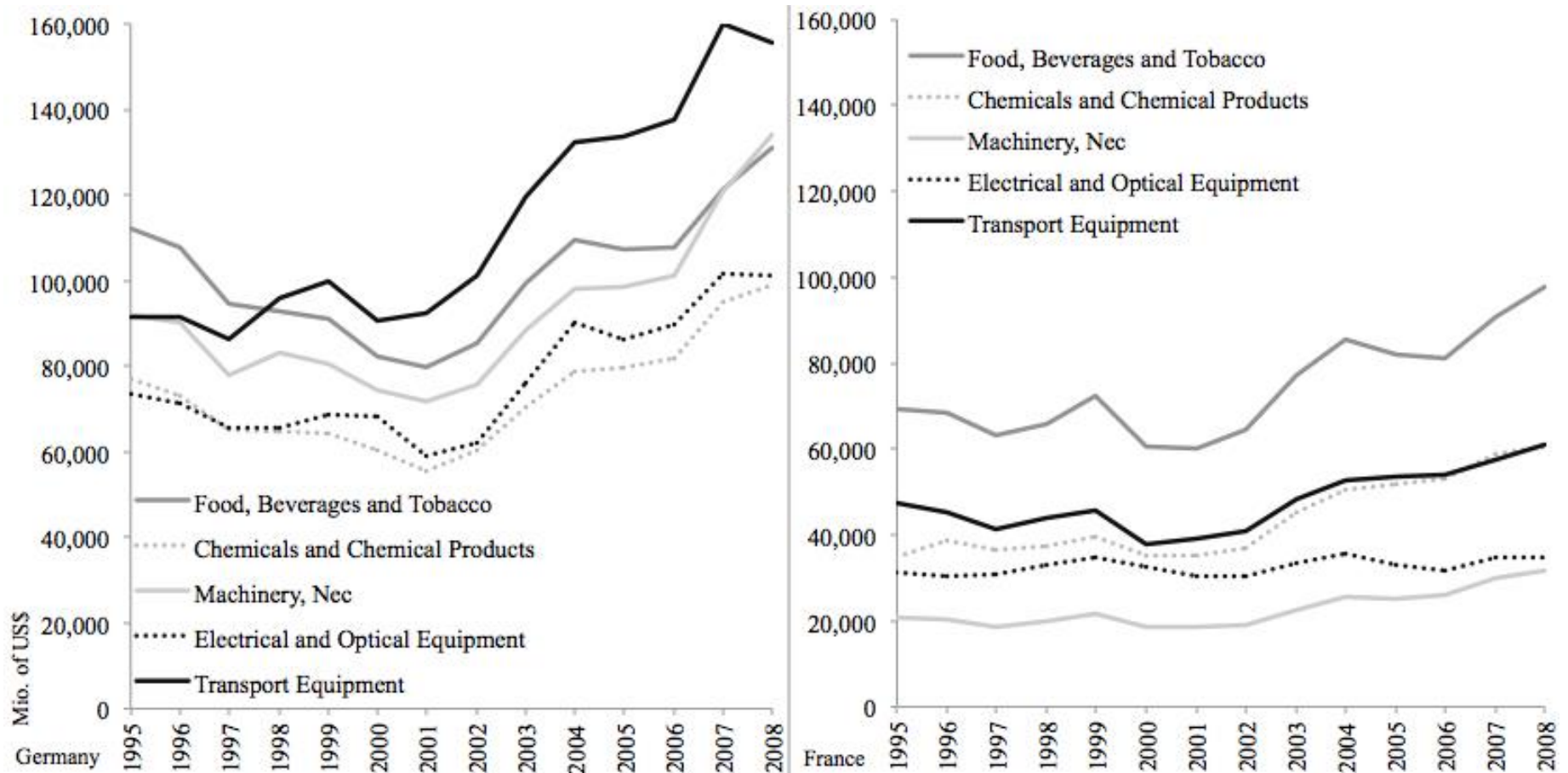




# Manuf VA income: disadvantaged sectors



# Manuf VA income: advantaged sectors

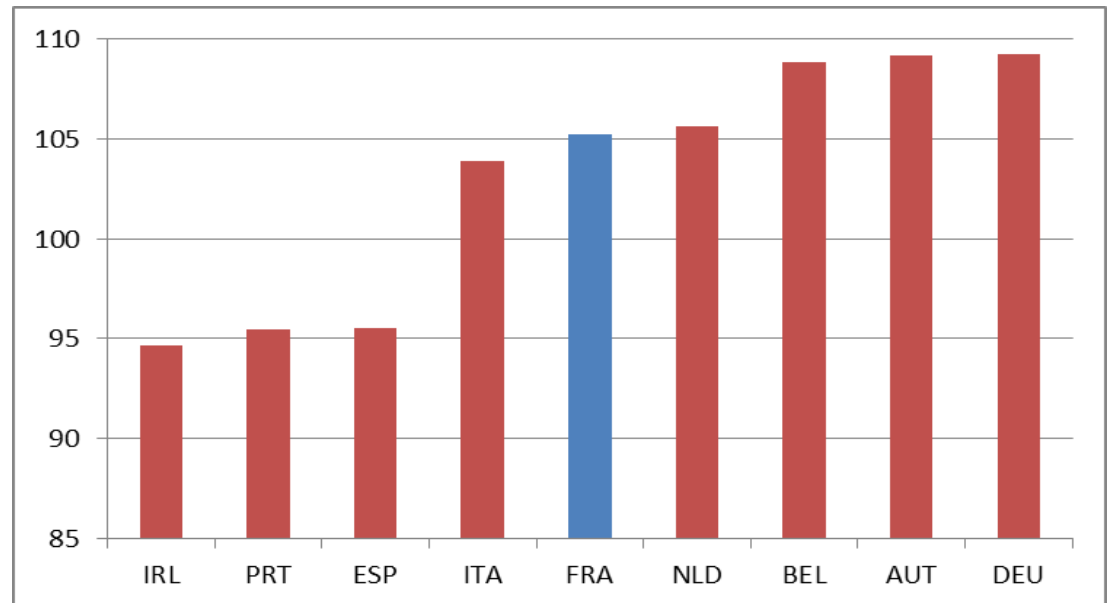


# The French problem: specialization, price or quality?

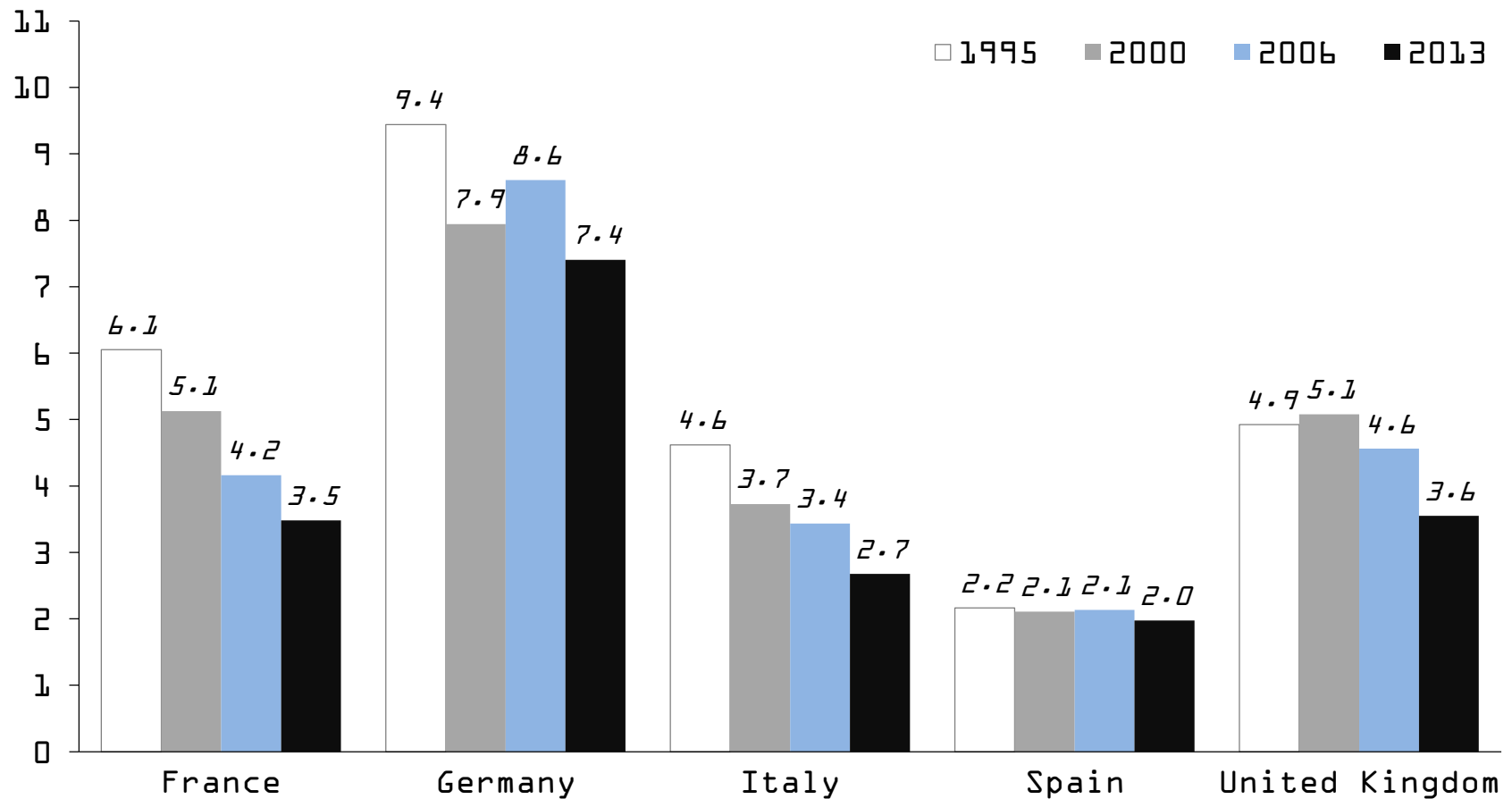
- France is losing market share...
- ... as all advanced countries (there are new players in the world economy)
- ... but faster than most EU countries
- Results from *Bas, Fontagné, Martin, Mayer (2015)*. “In search of lost market shares”. CAE
- Price should not be the main determinant in recent period

- ULC 2015 (2010 = 100)  
All sectors

Source: OECD (2014 for IRL & BEL)



# Market share for goods and services for the five largest EU countries



# Composition effects

- Product and destination dimensions
  - Product specialization
  - Geographic orientation of exports
- Simple decomposition of changes in market share
- Shift share econometric method:
  - Cheptea, Fontagné & Zignago (RWE 2014)
  - Gaulier, Santoni, Taglioni & Zignago (WB wp 2013)
- Product effect – destination effect – exporter effect (pure competitiveness)
- Quarterly data
- Export Competitiveness DataBase
- 200+ countries, HS6, 2006q1 -> 2014q3



# Composition effects

- « Pure competitiveness »
  - What would the variation in exports for France be if the geographic and sectoral structure of its exports were the same as that of its competitors?
  - Ability to cope with competition for a given good on a given market
  - Two periods, before/after trade collapse
- Results: poor French export performance is linked to an inadequate “quality/price ratio”, not to poor country or product positioning

# Price vs quality

- Price:
  - labor cost, energy cost, cost of capital
  - intermediate consumptions
  - productivity, mark ups, exchange rate
- Non-price:
  - variety
  - quality, reputation
  - a demand shifter, once prices are controlled for

# Back to fundamentals

- Non-price competitiveness is not observable
  - Bas, Martin & Mayer (wp mapcompete 2014) adaptation of the method developed by Khandelwal, Schott & Wei (AER 2013)
- Demand shifter approach (in logs):

$$\text{quantity}_{ijkt} + \sigma_k \cdot \text{price}_{ijkt} = \alpha \cdot \text{GDP}_{it} + \beta \cdot D_{ij} + e_{jkt} + \varepsilon_{ijkt}$$

->  $\sigma$  from Broda & Weinstein (QJE 2006),  $D$  a vector of bilateral characteristics, time subscript omitted, price is unit value

$$\text{Non-price compet} = \varepsilon_{ijkt} / (\sigma_k - 1)$$

# Measuring non-price competitiveness

- Results on products aggregated within 100+ sectors
- e.g. Aircraft leading French sector for non-price compet. (Germany: automotive parts)
- Prices should be divided by two in absence of deviation of French non-price competitiveness from the mean of the reference group (benchmark OECD)

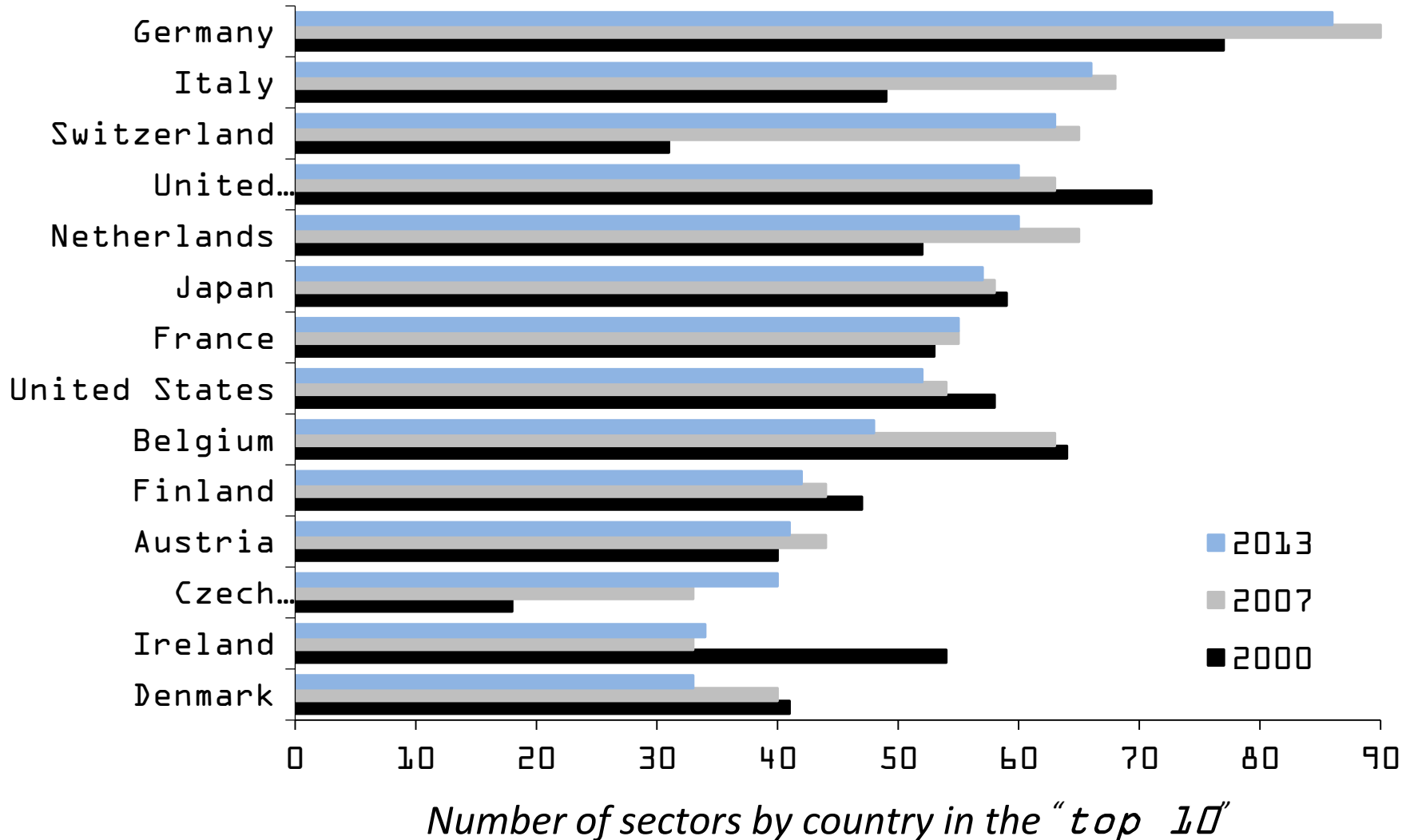
# Measuring non-price competitiveness

The French top ten	Market share within the OECD as a %	Sector share of total country exports as a %	Non-price competitiveness <sup>a</sup>	OECD Ranking
Aeronautics	10.2	3.4	2.4	1
Leather goods	25.6	1.3	7.3	2
Wine	28.0	2.4	2.2	3
Electrical distribution equipment	6.0	1.7	4.5	3
Automotive spare parts	6.2	6.0	1.4	5
Dairy products	14.6	2.2	1.2	5
Clothing	9.3	1.1	1.2	5
Plastics	7.5	3.9	1.1	7
Other metal products	5.8	2.2	1.2	7
Plastic products	6.4	2.8	1.3	8

# Measuring non-price competitiveness

The German top ten	Market share within the OECD as a %	Sector share of total country exports as a %	Non-price competitiveness <sup>a</sup>	OECD Ranking
Automotive spare parts	22.6	8.0	3.4	1
Non-ferrous metals	16.4	3.6	1.4	1
Plastic products	20.4	3.3	2.8	1
Automotive vehicles	16.8	3.0	1.6	1
Other metal products	21.5	3.0	2.2	1
Electrical distribution equipment	24.2	2.5	34.2	1
Machinery, other	20.7	2.3	3.7	1
Machine-tools	27.4	2.3	2.1	1
Precision instruments	21.1	2.2	21.4	1
Electronic components	17.1	1.8	25.6	1

# Measuring non-price competitiveness

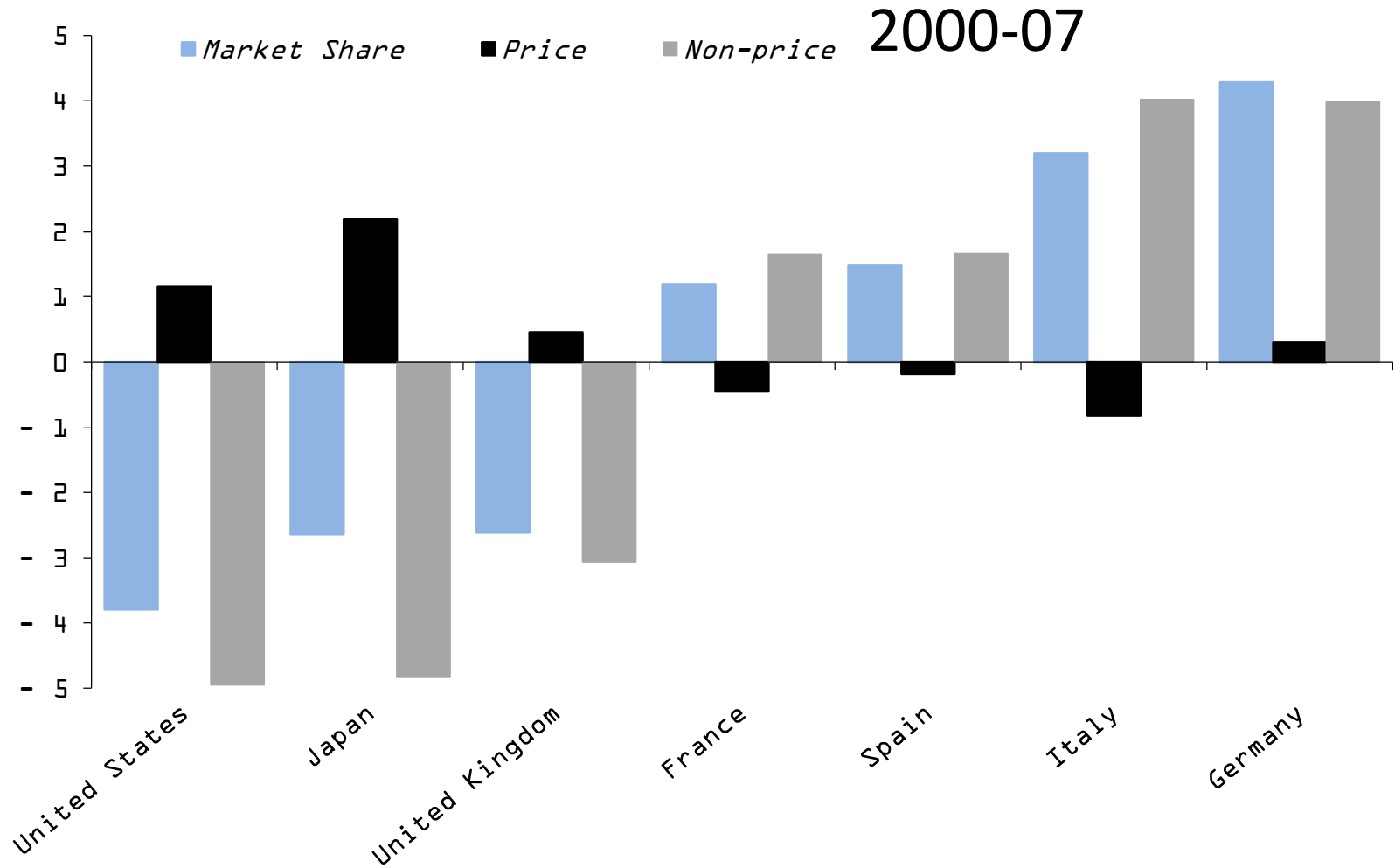


# Measuring non-price competitiveness

- Contribution of non-price competitiveness?
- Compute annual changes in market shares and price and non-price competitiveness contribution, in %
- For two sub periods: 2000-07 & 2008-13
- Sheds new light on German performance
- Points to selection effects in France



# Measuring non-price competitiveness



# Measuring non-price competitiveness

