

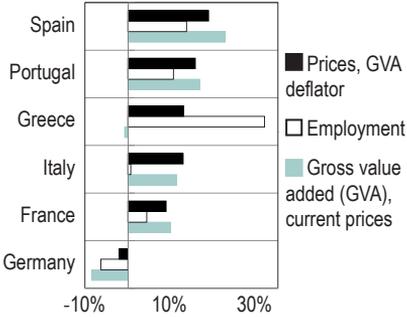
# Monetary Integration and the Nontradable Sector: A European Disease?

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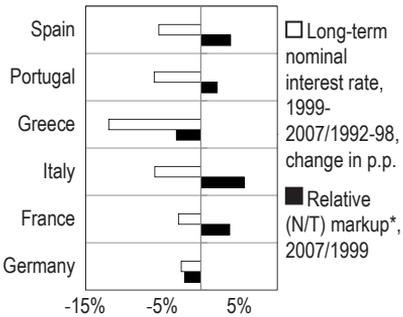
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## Stylized facts

The drift of the nontradable (N) relative to the tradable (T) sector between 2007/1999...



...was fostered by changes in relative N/T markup and nominal interest rate



\* markups are proxied by profit margins.

Source: author's calculations using Eurostat, BACI, IMF and STAN.

## Contribution

**Theoretical model:** small open economy, combined effect of monetary and market integration on the allocation of resources across sectors.

**Stylized facts:** consistent measure of the hypertrophy of the nontradable sector (prices, output, employment, markup).

## Literature review

**Monetary integration & resource allocation:**

Hypertrophy of the N sector (Giovazzi & Spaventa, 2010) increases financial fragility of small open economies (Kalantzis, 2015).

**Market structures & imbalances in the EA:**

T sectors have converged but N sectors remain fragmented (Estrada et al., 2013); product market regulations impact real exchange-rate variations within the EA (Bénassy-Quéré & Coulibaly, 2014).

## Model

A two-sector small open borrowing economy

- **Two sectors:** tradable sector T (perfectly competitive), nontradable sector N (with imperfect competition).
- **Two factors of production:** labor (sectoral mobility), capital (imperfect sectoral and international mobility).

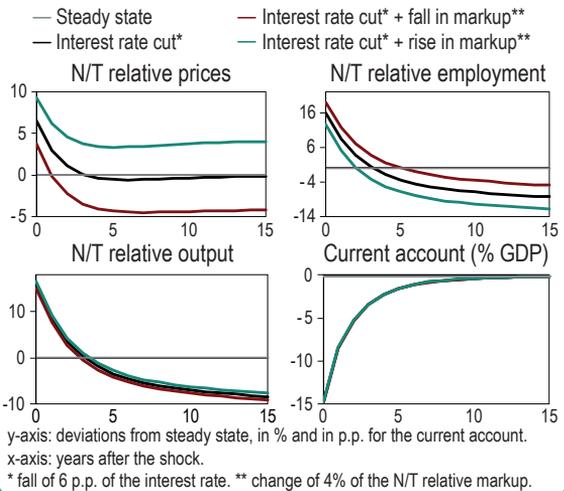
Monetary integration lowers the interest rate and shifts factors of production from T to N

- **Demand-boom:** higher T consumption sustained through imports as N goods must be produced domestically.
- Increased N/T relative prices: **lower real borrowing costs in the N sector.**

Product market deregulation in the N sector reduces the N/T relative markup and thereby the N/T relative price

- Decreased N/T relative prices: **higher real borrowing costs in the N sector** (fall in N/T relative nominal output), but **higher real consumption of N goods** (increase in N/T relative employment).

## Simulations



\* fall of 6 p.p. of the interest rate. \*\* change of 4% of the N/T relative markup.

## Policy implications

Since the 2008 financial crisis, in the EA periphery, increased interest rates have contributed to internal rebalancing...

N/T relative prices decrease after an increase in the interest rate, deregulation in the N sector, or an increase in the price of T goods (inflation in the EA).

...but labor reallocation happens at a high social cost as the N sector is more labor intensive than the T sector.

In Germany, deregulations in the N sector would not help to reduce the current account surplus

Reduced N/T relative markup decreases N/T relative price (unless productivity in the T sector increases) and shifts labor and capital from the T to the N sector

## Further analysis

- To what extent do differences in markup and interest rate variations explain the heterogeneity across EA countries?
- What is the cost of sectoral reallocations?
- Extend theoretical model to incorporate full labor mobility.
- To what extent do variations in markups affect the sectoral allocation of resources? Firm-level data (Orbis).