

Financial Heterogeneity and Monetary Union

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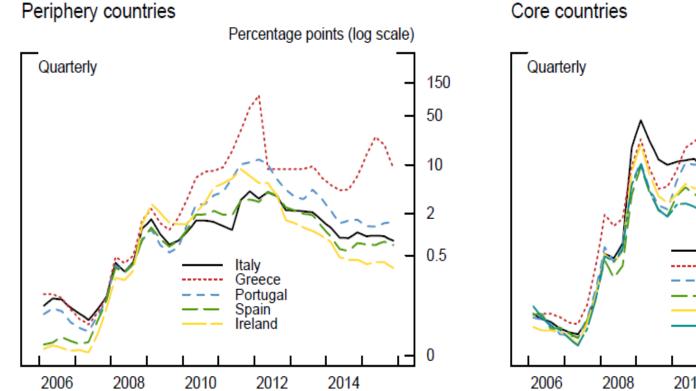
Federal Reserve Bank of San Francisco

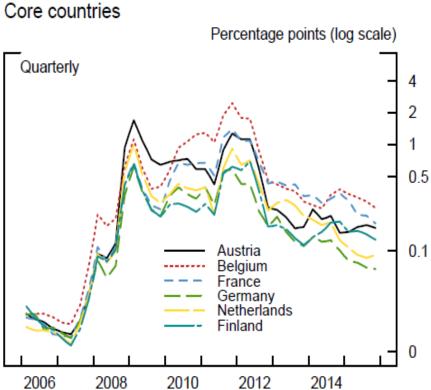
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Why diverging recovery in euro area?

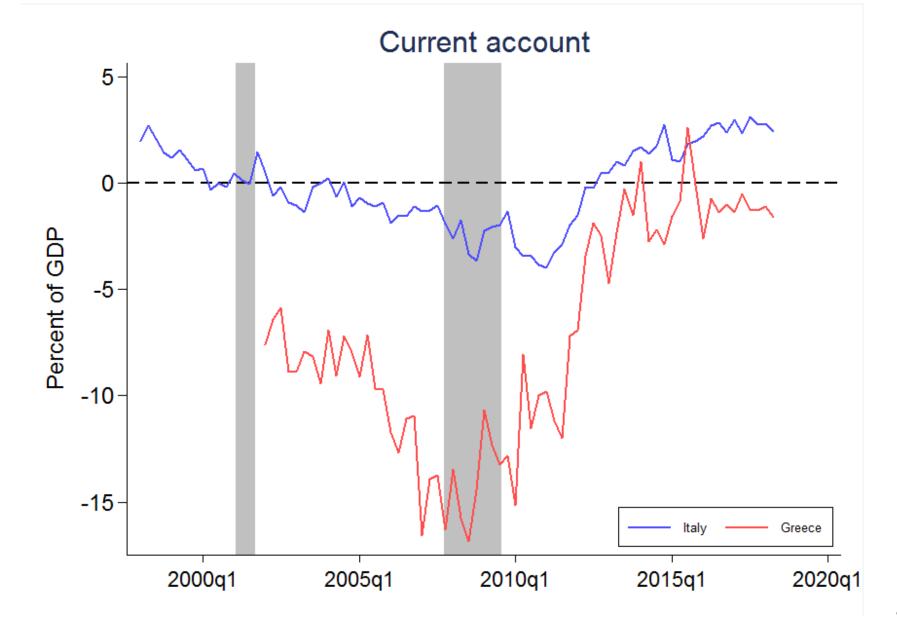
- A common narrative:
 - Excessive borrowing fueled unstainable booms of periphery (PIIGS) before crisis
 - Borrowing cost surged after crisis; capital flows reversed
 - Currency devaluation not an option (downward nominal wage rigidities did not help)

Periphery borrowing costs surged after crisis

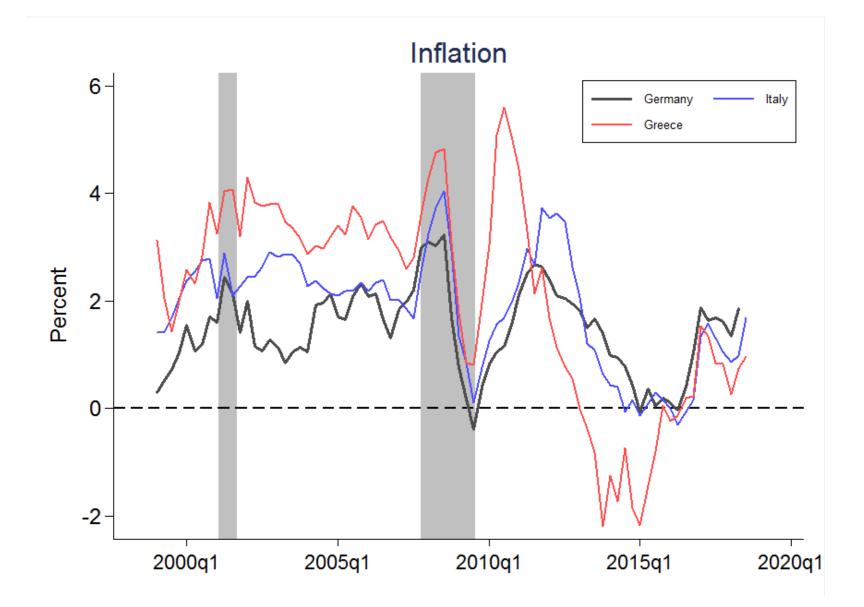




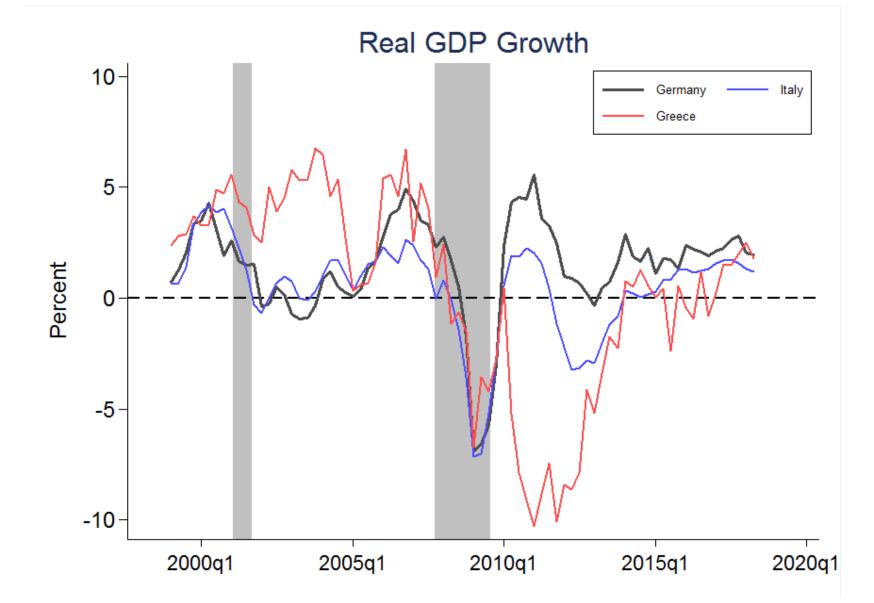
Capital flows reversed direction since crisis



Relative prices rose in periphery...



...contributing to diverging recovery paths





Why did periphery firms *raise* relative prices after crisis?

Model mechanism

- Two-country extension of GSSZ (2017)
- Customer base: deep habit (Ravn, et al)
 - Italian espresso, Greek beach, and such
 - Long-term relation \rightarrow forward-looking pricing decisions
 - Short-run demand elasticity different from long run
- Financial frictions interact with customer base
 - Firms facing tightened financial conditions raise markup to maintain cash flow
 - Tradeoff: current profit vs. future market share
 - Home firms face tighter constraints → home relative price rises → real appreciation → things get worse
 - Home firms lose market share to foreign firms → things get even worse

Evidence for model mechanism

- GSSZ (2017) provide micro evidence (goods/firm) for interplay b/n customer base and financial friction
- Here, cross-country Phillips curve evidence:
 - CDS spreads correlated with prediction errors of Phillips curve in periphery, but not in core
 - Widening of CDS spreads raises average markups in periphery, but not in core
- Caution: Slope of Phillips curve hard to identify
 - Endogenous policy responses to demand shocks → neg.
 corr b/n inflation and output gap (McLeay-Tenreyro, 2018)
 - Blanchard, et al. (2015): Phillips curve has flattened since early 1990s
 - Regional variations in an MU may help diff out endog.
 monetary policy responses (Fitzgerald-Nicolini, 2014)

Reallocation implications

- Low productivity firms face rely on costly equity finance, high productivity firms unconstrained
- Adverse shock: low productivity firms raise markup and lose market share → reallocation to more productive firms → aggregate TFP improves
- Aggregate TFP countercyclical
 - Mitigate adverse shocks: macro stability and welfare
 - Evidence?

Alternative form of financial frictions

- Credit constraints:
 - High-productivity firms face binding credit constraints
 - Adverse shock reducing borrowing capacity would hurt productive firms, allow unproductive firms to operate
 - Reallocation reduces aggregate TFP, amplifying initial shocks (Liu and Wang, 2014)
 - With sticky prices, lower TFP pushes up real marginal cost and inflation: cost channel
 - Similar implications to GSSZ, but diff reallocation effects

Optimal policy and welfare

- Welfare effects of joining MU for periphery not obvious:
 - Firms face adverse financial shocks, but terms of trade improvement benefits consumers
 - Reallocation across domestic firms may improve TFP?
- GSSZ use Taylor rule as benchmark policy. More natural benchmark: optimal independent policy (with flexible FX)
- Paper mentions "pecuniary externality" in intro but no discussion in text
- Other policy regime: optimal policy coordination (with flex FX) vs. indep policy
 - Terms-of-trade externality (Pappa, 2004; Liu-Pappa, 2008)

Conclusion

- Well written, pleasure to read
- Interplay between financial frictions and customer base a plausible story for diverging recovery paths of periphery vs core
- A good starting point for future studies
 Quantitative importance of the channel
 - Optimal independent monetary policy, optimal policy coordination, or currency union?