



# MACROPRUDENTIAL REGULATION: OPTIMIZING A CURRENCY AREA

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Colloquium in Honor of Lucas D. Papademos

Based on "Report: Monitoring the ECB"  
with C. Goodhart, P-O. Gourinchas and R. Repullo

# Two Challenges

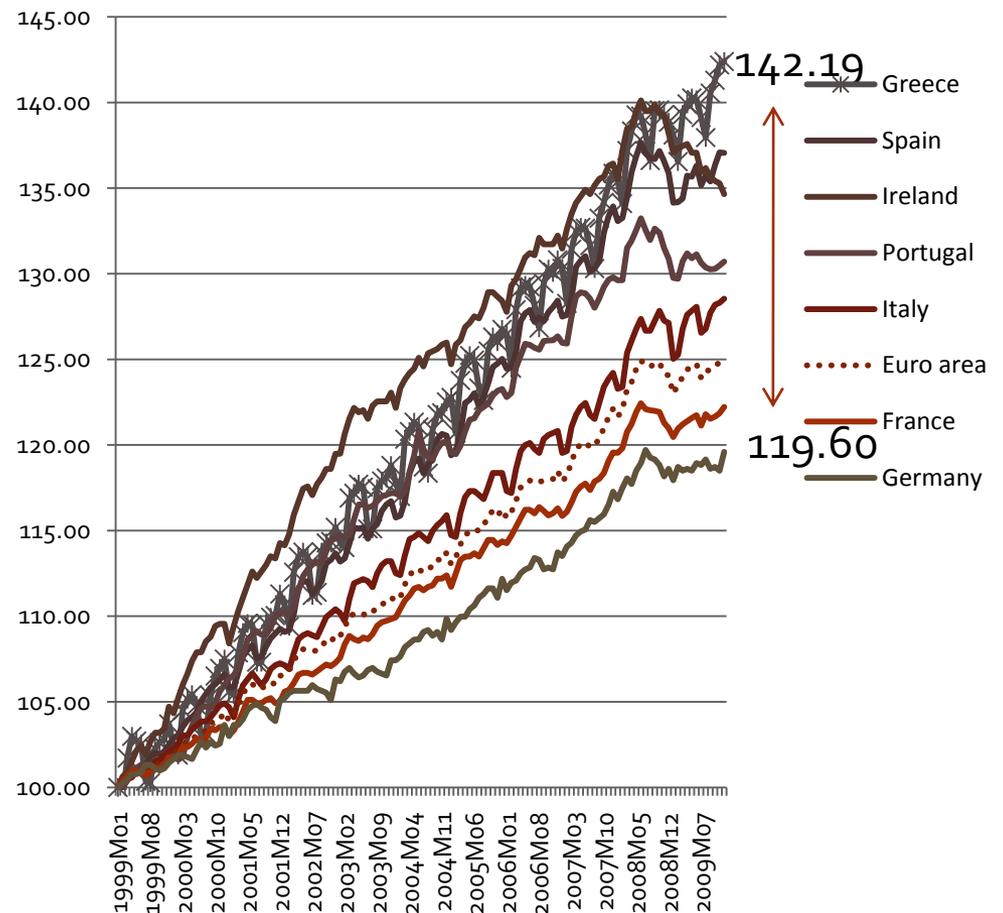
1. Financial Stability
  - Build up of risk during bubble phase
  - Materializes in crisis

# Two Challenges

## 1. Financial Stability

- Build up of risk during bubble phase
- Materializes in crisis

## 2. Price Stability Dispersion



# Overview

1. Redefine second pillar = financial stability pillar
  - Lean against credit bubbles
  - Redefine monetary and credit aggregates
2. Make currency area optimal
  - More than one instrument -- regional

# Current Rationale of Second Pillar

- Monetary analysis
    - Focus on money aggregates/supply
    - Long-run/medium term view
      - Note: strictly speaking introduces a **second objective**
        - Short-term (Pillar 1)
        - Medium/long-term (Pillar 2)
    - Cross checking
- How to weigh them?

- Quantity theory of money

$$M_t V_t = P_t X_t$$

- Prediction (after high money growth):  
 High inflation in the very long run

# || New Rationale for Second Pillar

- Financial stability
    - Lean against (credit) bubbles
      - High credit growth (partially reflected in M3)
  - Prediction (after high credit growth):
    - Financial crisis impairs monetary transmission mechanism
    - Crisis binds hands
      - one is driven by events and hence not in control
- High de-/inflation **volatility**
- **Deflationary pressure**
  - Inflation due to monetization after bailouts

*Note difference to  
Quantity theory!*

# Arguments for “Benign Neglect Policy”

1. Difficult to identify bubble
  - Any policy is a decision under uncertainty
  - Risk management approach
2. Lean versus clean
  - Symmetric treatment
  - Asset bubble vs. credit bubble
3. Interest rate is not most effective tool to prick bubbles
  - Effective when combined with “open mouth policy”
    - in early phase +
    - when term spreads are thin and bubble driven by yield curve carry trade
4. Too crude – not surgical
  - Bubbles affect large part of economy
  - Use in conjunction with other instruments
5. Pricking bubble led to disastrous outcomes (US 1928, Japan 1989)



# Quantitative Aggregates

- Credit aggregates

- Credit (growth) aggregates
- Credit lines
  - Excessive draws on credit lines are signs of upcoming troubles
  - Newly extended credit lines
- Shortening of maturity structure
- Repo growth

+ asset bubbles + “bubble anecdotes”

- Features
  - Maturity structure
  - Counterparties (levered banks vs. households)

- Money aggregates (related)

- Portfolio shifts to shorter maturity, safer assets

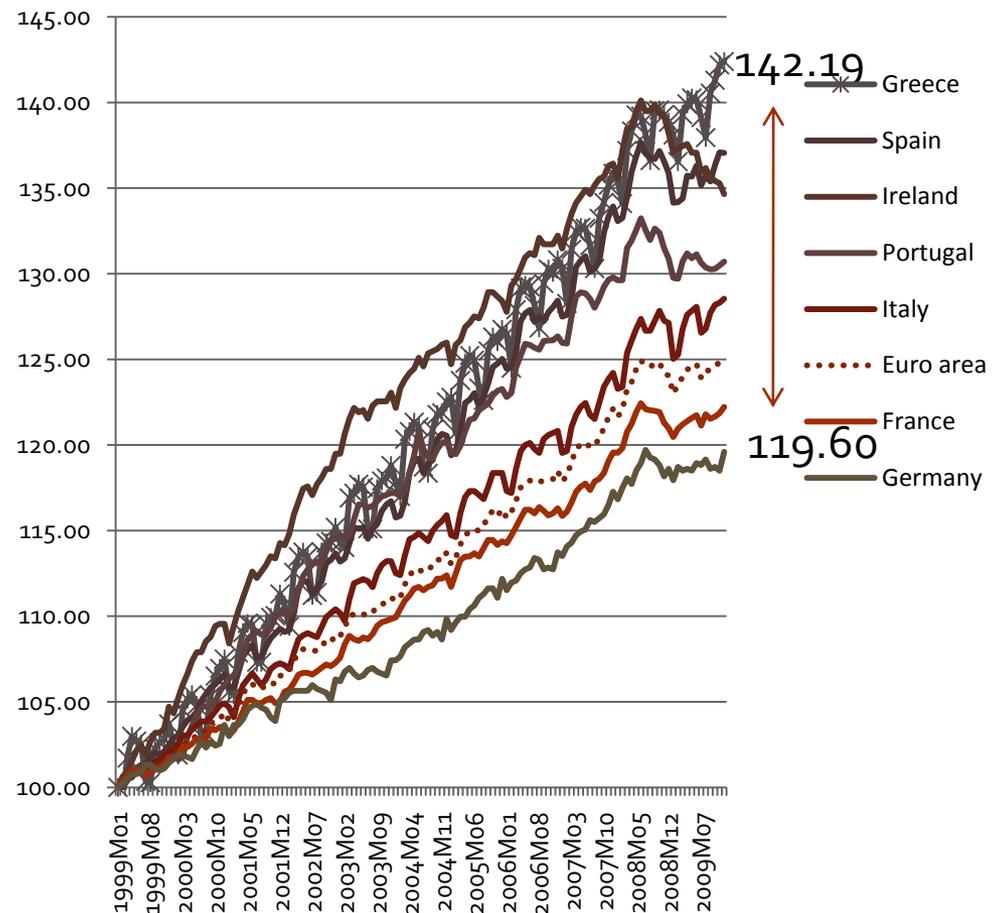
} Soundness of  
balance sheets

# The Second Challenges

## 1. Financial Stability

- Build up of risk during bubble phase
- Materializes in crisis

## 2. Price Stability Dispersion

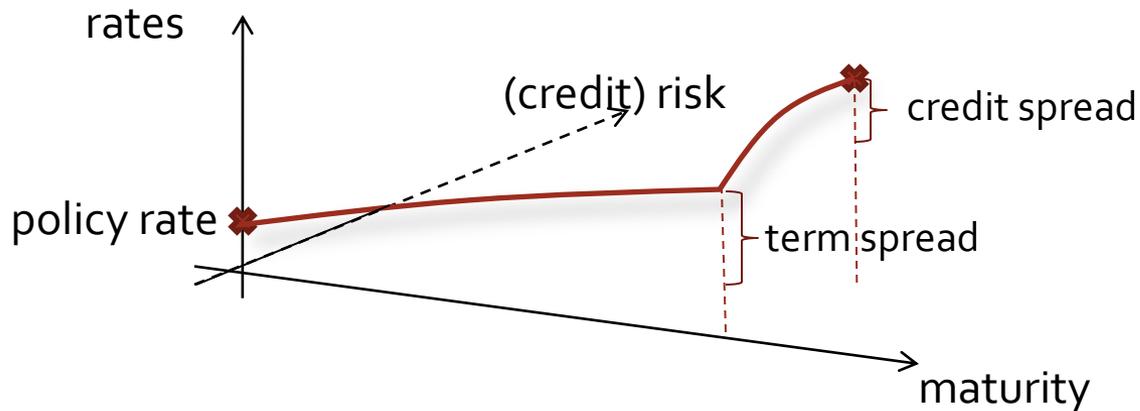


# Optimal Currency Area - reconsidered

- Currency union
  - Loss of instrument: **same interest rate in whole area** (+ “loss of a valve”, since exchange rate is fixed)
- Traditional view: optimal currency area if
  - No large asymmetry in shocks
  - Fiscal integration
  - Labor mobility
- Hence, Euro area is not an optimal currency area
- How can the ECB *make* it an optimal currency area? (transfer union is politically not feasible)

# || The Insight

- Same **short-term** interest rate  
... but what counts for economy is 'risky long-term rate'



- Affected by haircut policy + macroprudential regulation

# || The Idea

- Use **regional** ...
  - Collateral policy (haircuts)
    - E.g. haircuts for mortgages in country X (with housing boom) are higher
  - Haircut/margin regulation (analog to US-Regulation T)
  - (Purchase regional assets)
  - Macroprudential regulation (through ESRB)

## **as an active policy instrument**

- Too lean against **regional** bubbles/imbbalances

 Justifies larger currency area, but needs clear governance structure

- Details to be worked out in Brunnermeier-Gourinchas (2010) "Monetary Policy is a Non-Optimal Currency Area"



# How Can ECB-ESRC Affect Macroprudential Regulation?

- Adjust Maastricht criteria
  - Ireland satisfied the Maastricht criteria, but ...
  - private debt is subject to “bailout risk” for government
- Define ‘expected’ public debt
  - $\text{Public debt} + \text{Prob}(\text{bailout}) * \text{bank debt}$
  - $\text{Prob}(\text{bailout}) = f(\text{quality of bank regulation})$
- Advantage: ESRB gets some teeth  
control, how member states conduct bank  
regulation

# || Conclusion

1. Financial Stability = second pillar
  - Modify monetary/credit aggregates
2. Optimize currency area
  - Using haircuts/macroprudential regulation as active policy instruments (to distort)