

The political economy of macroprudential policy

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Macroprudential policy –Research frontier

Limited research; predominantly focused on the **effects and efficacy of measures**

- “little assessment of the institutional impact of macroprudential policy [...], despite the strong likelihood that **regulated entities** will resist tighter regulation and that conflicts over macroprudential policy will be **politically mediated**”(Goodhart2014:281)
- Macroprudential policy redefines the role of public authority over private interest by **increasing the powers of technocratic regulators** to intervene in financial market activities (Baker 2015; Persaud2009; Alessandri& Haldane2009; Turner 2011)
- **Interactions** of macroprudential policy with other policy areas are not well understood (Bank of England 2015).
- “More explicitly and conspicuously **distributional** than monetary policy”(Baker 2015:2)

Policy challenge: What is the most appropriate institutional setup for macropru?

Research questions

Project uses a dataset on EU countries' macroprudential policy stances and a variety of country specific factors to answer the following research questions:

- Do **contextual & structural** influence policy stances?
- Do **institutional & governance arrangements** matter?

Baseline assumption: Inaction bias (Tarullo2008; Verdier2013; Buiter2012; etc.)

- Time inconsistencies
- Distributional effects

Hypotheses

A Contextual & structural factors	
H1	High banking sector structural power lowers the likelihood of more intense policy stances
H2	A large market share of domestic banks increases the likelihood of more intense policy stances
H3	More intense policy stance are less likely in economies with large share of OFIs in domestic lending
H4	Crises experiences increases likelihood of more intense policy stances
B Institutional & governance arrangements	
H5	More intense policy stances are more likely when responsibility rests with single authority
H6	Central banks more likely to pursue more intense policy stances than other macroprudential authorities
H7	More intense policy stances are more likely for authorities with more independence
H8	Strong accountability measures increases likelihood of more intense policy stances
H9	More extensive transparency requirements increases likelihood of more intense policy stances

Main findings

- Macroprudential policy stances not affected by **political pressure & interest group resistance**.
- More intense policy stances in countries where financial systems are depending on **foreign banks, or lending from non-bank intermediaries**.
- **Single authorities** associated with more intense policy stances
- Strong **transparency & independence** arrangements influence policy stances.
- Countries based in the **Euro zone** tend to have less intense policy stances, suggesting that **policy frameworks that are multi-layered & complex pose tricky conundrums** on how to ensure sufficient institutional autonomy, policy capacity and discretion among macroprudential authorities.

Methodology & data

Dependent variable(s): Annual Change in policy stance

Independent variables:

Banking sector structural characteristics

Institutional arrangements

Governance arrangements

Control variable: Annual proxy for systemic risk (credit & assets to GDP)

–Omissions due to multicollinearity

–No added explanatory power from additional variables (capital levels, liquidity etc.)

–Euro-zone

Policy measure	Scoring
Capital requirements (CR)	$\frac{(CR - 8)}{8}$
Liquidity ratio	%
Funding ratio	%
Loan to value (LTV)	$\frac{(100 - LTV)}{100}$
Loan to income (LTI)	$\frac{(5 - LTI)}{5}$
Risk weights residential real estate (RW RRE)	$\frac{(RW - 35)}{35}$
Risk weights commercial real estate (RW CRE)	$\frac{(RW - 50)}{50}$
Other measures	0.25

$$\Delta Policystance_i$$

$$= f(c; \Delta systemicrisk_i; \Delta explanatoryvariables_i) + \mu_i$$

μ_i = random error term.

Results: Contextual & structural factors

H1 High **banking sector structural power** lowers the likelihood of more intense policy stances

H2 A large **market share** of domestic banks increases the likelihood of more intense policy stances

H3 More intense policy stance are less likely in economies with large **share of OFIs** in domestic lending

H4 Crises experiences increases likelihood of more intense policy stances

[illegible]

Results: Institutional & governance arrangements (1)

H5 More intense policy stances are more likely when responsibility rests with **single authority**

H6 **Central banks** more likely to pursue more intense policy stances than other macroprudential authorities

Dep. variable Equation no.	Score 25	Score 26	Score 30	Score 31
C	0.260 (0.054)**	0.300 (0.150)*	0.472 (0.078)**	0.661 (0.181)**
Credit	-0.124 (0.869)	-0.056 (1.332)	0.159 (0.826)	0.143 (1.251)
Assets	0.354 (0.371)	0.158 (0.498)	0.282 (0.352)	0.144 (0.467)
EUROZONE			-0.282 (0.073)*	-0.376 (0.119)
Single	0.111 (0.072)*		0.072 (0.070)*	
Central bank		0.102 (0.169)		-0.053 (0.166)
Observations	132	76	132	76
R-squared	0.244	0.214	0.329	0.319
Adj. r-squared	0.181	0.09	0.268	0.202
F-statistic	3.900	1.766	5.351	2.731
Prob(F-stat)	0.000	0.085	0.000	0.006

Results: Institutional & governance arrangements (2)

H7 More intense policy stances are more likely for authorities with more **independence**

H8 Strong **accountability** measures increases likelihood of more intense policy stances

H9 More extensive **transparency** requirements increases likelihood of more intense policy stances

Dep. variable Equation no.	Score 40	Score 41	Score 42	Score 43	Score 44	Score 45	Score 46	Score 47
C	0.330 (0.086)**	0.350 (0.163)*	0.361 (0.093)**	0.247 (0.077)**	0.507 (0.093)**	0.360 (0.152)*	0.393 (0.101)**	0.601 (0.079)**
Credit	-0.529 (0.943)	-0.517 (0.949)	-0.513 (0.942)	-0.349 (0.935)	-0.102 (0.892)	-0.179 (0.888)	-0.004 (0.877)	0.035 (0.896)
Assets	0.419 (0.391)	0.423 (0.393)	0.421 (0.392)	0.327 (0.391)	0.319 (0.368)	0.357 (0.366)	0.360 (0.362)	0.373 (0.370)
EUROZONE					-0.309 (0.080)**	-0.343 (0.084)**	-0.402 (0.092)**	-0.329 (0.083)**
Independence - operational	0.033 (0.098)*				0.065 (0.092)*			
Independence - financial		0.007 (0.170)				0.235 (0.168)		
Accountability			-0.007 (0.105)				0.263 (0.129)	
Transparency				0.150 (0.090)*				-0.086 (0.084)*
Observations	116	116	116	116	116	116	116	116
R-squared	0.226	0.225	0.225	0.245	0.324	0.333	0.347	0.327
Adj. r-squared	0.152	0.151	0.151	0.173	0.252	0.263	0.278	0.256
F-statistic	3.066	3.051	3.052	3.411	4.527	4.724	5.015	4.604
Prob(F-stat)	0.002	0.002	0.002	0.001	0.000	0.000	0.000	0.000

Annex

Macprud. policy stances	Variable name & operationalization	Data sources
National macroprudential policy intensity	Score; ExSIB - Change in policy intensity (see Annex A)	ESRB Macroprudential measures database https://www.esrb.europa.eu/national_policy/html/index.en.html
Contextual & structural factors	Operationalization	Data sources
(H1) Banking sector structural power	Herf - Herfindahl index (%) Top5 - Market share of 5 largest institutions (%)	European Central Bank Statistical Data Warehouse (ECB SDW)
(H2) Market share of domestic banks	Dom - Market share of dom. institutions (%)	ECB SDW
(H3) Share of OFIs in domestic lending	OFI - Share of OFIs in domestic lending (%)	ECB SDW
(H4) Domestic crises experiences	#Crises - No of domestic financial crisis 1970-2017	Lo Duca et al. (2017). A new database for financial crises in European countries (No. 194), ECB.
Institutional & governance arrangements	Operationalization	Data sources
(H5) Single authority	Single(dummy)	ESRB Recommendation on the macro-prudential mandate of national authorities (ESRB/2011/3) Follow-up Report – Overall assessment, June 2014. (not available online).
(H6) Role of central bank	sCB (desCB) (dummy) CBR - ESRB B3 Role of central bank (dummy variable)	
(H8) Operational independence	OpInd - ESRB E1 Oper. Indep. (dummy)	
(H10) Accountability measures	Acc - ESRB D3 Acc. to Legislator (dummy)	
(H11) Transparency requirements	Tra - ESRB D1 Public decisions (dummy)	
Control variables	Operationalization	Data sources
Credit to GDP	Credit - Credit/GDP (%)	ECB SDW (all countries but NO) BIS for NO
Domestic assets to GDP	Assets - Domestic bank assets/GDP (%)	ECB SDW
Leverage	Leverage - -(Total equity/total assets) (%)	ECB SDW