



Bank regulation: past, present and future

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Introduction

□ Banking has changed dramatically in the last decade:

- ➢ Great Financial Crisis, 2008
- Sovereign Debt Crisis, 2011-12
- Basel III
- > Banking Union, Bank Recovery & Resolution Directive (BRRD), ...
- □ The policy response to the crises was monumental
 - It was urged by (legitimate!) public concerns on 'bad' finance.

□ Today we can take stock of this process:

- How do the reforms stand the test of time so far?
- Which questions remain open for current and future policy makers?



Plan of the talk

□ A primer on bank regulation

□ Lessons from the crisis:

- Capital
- Procyclicality
- Liquidity risk
- Resolution rules

□ Three open questions:

- Bail-in mechanisms
- State interventions
- Optimal bank capital

Conclusions



A primer on bank regulation

- □ Banks perform a crucial role in the economy:
 - screen/monitor <u>long-term</u> borrowers
 - provide <u>short-term</u> liquidity (demand deposits, credit lines)
- The maturity mismatch exposes banks to 'runs'
 Deposit insurance: prevents panics and ensures stable funding
- But DI makes risk shifting problems more acute: depositors have no incentive to monitor their banks.
 - → Capital requirements:
 - a) Improve incentives by increasing "skin in the game"
 - b) build up loss absorption capacity.
- □ What did we learn on this from the recent crises?



□ Capital was low relative to the banks' risk exposures

□ Capital is the foundation on which banks build up leverage



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Sutyagin House, 2007 (Shin, 2016)

Α	L
Loans	Deposits
Securities	Bonds
Cash	Equity



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- Capital was low relative to the banks' risk exposures
- □ Capital is the foundation on which banks build up leverage
- **Policy response:**
 - > higher capital ratio (8% RWA)
 - new leverage ratio (3%)
- Is this enough, too much, about right? More on this later.



Lesson 2: The financial sector is procyclical

□ Banks' balance sheet amplify the economic cycle:



T. Adrian, H. Shyn (2009), Liquidity and Leverage, NY Fed Staff Report 328



Lesson 2: The financial sector is procyclical

Banks' balance sheet amplify the economic cycle.

Policy response: new macroprudential instruments.



Recent macroprudential interventions in Europe:

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Lesson 3: Liquidity risks were neglected

- Banks were overly exposed to illiquidity risks
 - Lehman rolled over 25% of its debt every day through overnight repos.
- □ Short-term creditors can quickly run for the exit (or entrance!)

Overnight Asset Backed Commercial Paper Spread







Lesson 3: Liquidity risks were neglected

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- □ Short-term creditors can quickly run for the exit (or entrance!)
- **Policy response: new liquidity standards (NSFR, LCR)**

Stability of different funding sources



Lesson 4: Resolution rules are critical

Crises must be dealt with rapidly and efficiently

The U.S. did it:

- i. Stress tests + TARP recapitalization for big banks
- ii. FDIC resolution for small banks
- Europe did not, due to:
 - i. lack of resolution frameworks and credible fiscal backstops
 - ii. domestic supervision of banks that operate across the EU



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- **Policy response in the EU: Banking Union and BRRD**



The real cost of the crises



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018



Open questions

- □ The regulatory response required unprecedented global efforts
- □ The 10 years since Lehman give us a new perspective on what has been done, and on what might need to be done next.
- □ I will focus on three issues:
 - ➢ Will the bail-in principle work as intended?
 - What is the role of the State in bank resolutions?
 - How much capital should banks hold?



(1) Will the bail-in principle work as intended?

Skeptics argue that burden sharing rules might have unintended consequences: market volatility and contagion.

 Recent experiences with Contingent Convertible Bonds (CoCos) suggest they could be right.



CoCos' yield of European banks

What would happen in a crisis?



(1) Will the bail-in principle work as intended?

□ The FDIC has successfully dealt with many failing banks:

- It does not rely on convertible bonds
- It has great(er) flexibility in using public funds to support market solutions
- It can resort to public funds without imposing haircuts on creditors.



FDIC 2017, Crisis And Response: An FDIC History, 2008–2013



(2) What is the role of the State in bank resolution?

- □ Limiting public support can reduce moral hazard problems.
- □ Italy has been "virtuous" in this respect:



□ But should public support be ruled out altogether?

- i. The GFC was triggered by a non-bailout (Lehman)
- ii. Bailouts can be "socially optimal" in some cases
- iii. Bailouts can also yield profits for the State: \$15 billion in the case of TARP
- iv. Bailouts can help avoiding the uncharted territory of bail-ins



(2) What is the role of the State in bank resolution?

- □ In a monetary union this question is more complicated.
- □ (Some) risk sharing is surely optimal. But it needs fiscal discipline to be politically and economically feasible.



(3) How much capital should banks hold?

□ K* optimizes a tricky tradeoff:

- ▹ ↑K reduces public involvements and the social costs of bankruptcies...
- > ... but increases the cost at which banks lend and create liquidity.
- □ Estimates of K* around 20-25% are not uncommon

□ We are going in that direction....



EUROSISTEMA

(3) How much capital should banks hold?

□ ...some countries are already there



□ The intricacies of bail-ins make K even more desirable.

□ The increase in K should be *as fast as possible, but not faster*



Conclusions

- Post-crisis regulation makes banking sector safer
- But this is not the end of the road:
 - How do the new rules work in "general equilibrium"?
 - How will the financial sector adjust to them?
 - How can they be improved?
 - Should good, old capital play a more important role?
- Perhaps being tougher "ex ante" (capital requirements) and more lenient "ex-post" (use of public funds) would be better.
- Need capital markets. Must study the financial strategies of NFCs. Why NFCs shy away from capital markets? Severely under-researched (Generale, Signoretti, Panetta 2018)
- I expect new research, answers (and perhaps new questions) from tomorrow's researchers and policy makers.



Thank you

