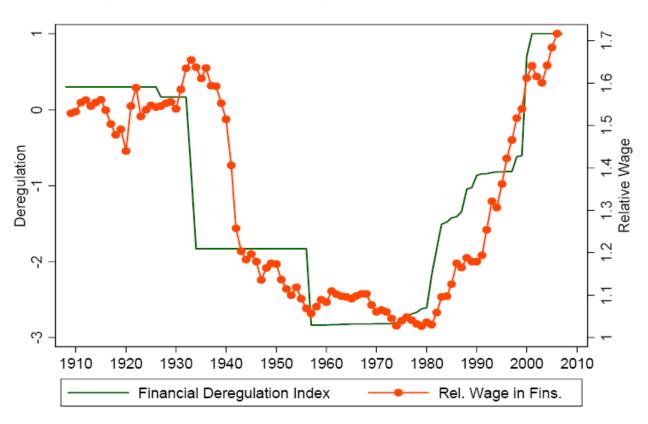
Regulation & Financial Innovation

Figure 6: Relative Financial Wage and Financial Deregulation



Financial Innovation, Technology and Deregulation

- Consider the main forces that have been at work in altering the financial landscape. Technical Change (...), Deregulation (...) Change»
- □ (R.G. Rajan, November 2005)





Deregulation and Finance Industry: Micro Effect

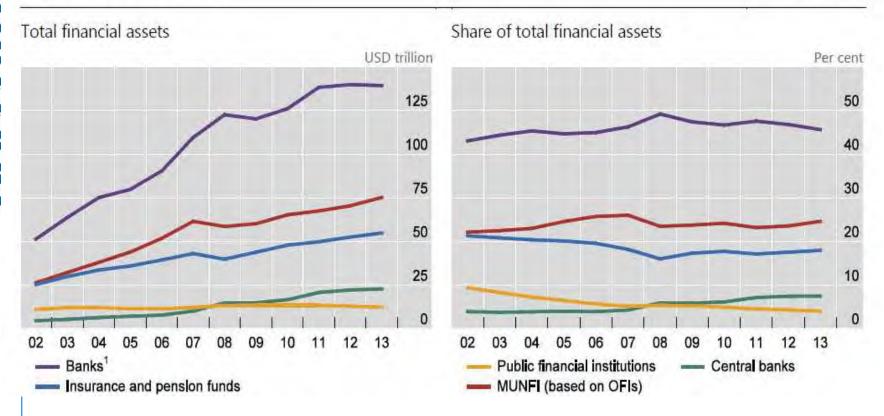
- Deregulation produced three effects on finance:
- □1) Dimension
- □2) Complexity
- □3) Interconnection

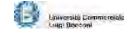


A) More Finance

Assets of financial intermediaries

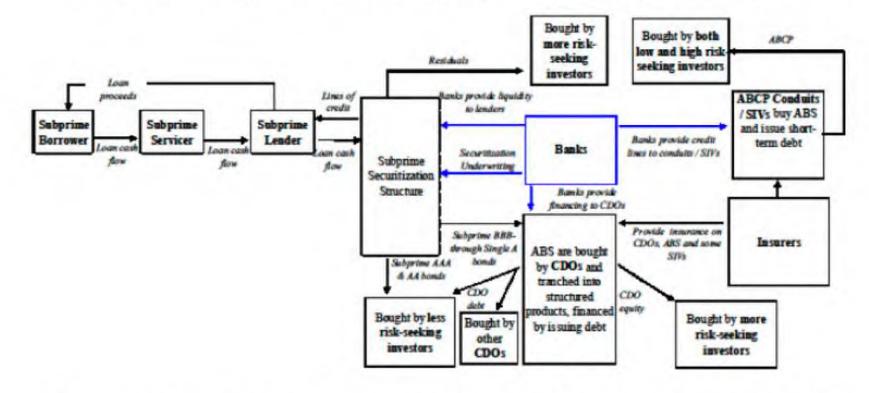
20 jurisdictions and euro area Exhibit 2-1



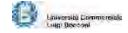


B) Complexity

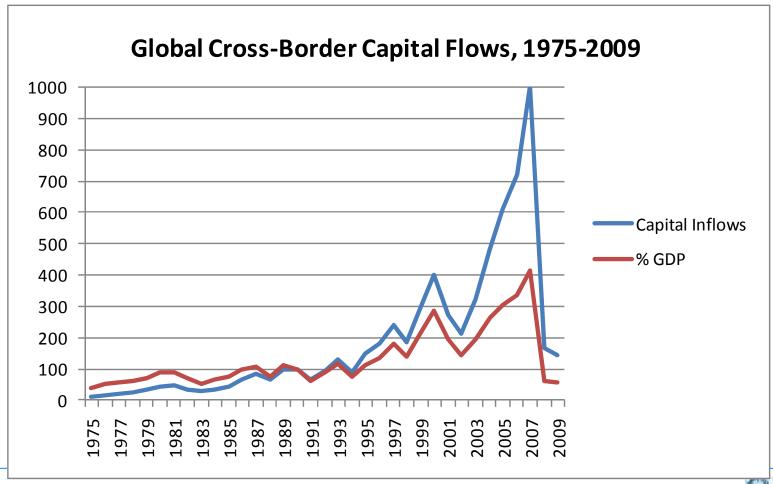
Figure 2. A Visual Sense of the Complexity: From Mortgages to Securities



Source. Adapted from Figure 1.10: Mortgage Market Flows and Risk Exposures, Chapter 1, p. 11, Global Financial Stability Report, October 2007

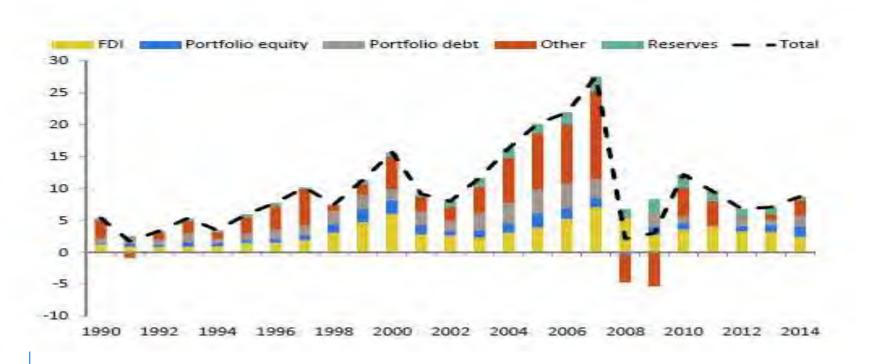


C) Interconnections: Borders...



C) Interconnections: Borders...

Figure 1: International capital flows

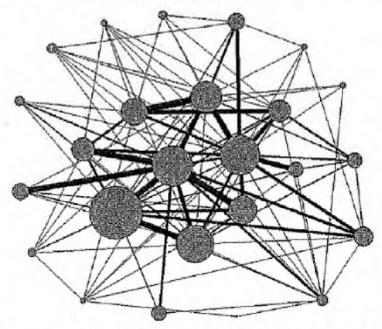


Source: Mc Quade and Schimtz, ECB, 2016



C) Interconnections: National Banks...

Figure 14. Network of large exposures between UK banks



Note: A large exposure is one exceeding 10% of a lending bank's eligible capital. Each node represents a bank, with the size scaled in proportion to the sum of the total value of exposures to that bank and the total value of exposures of that bank to others in the network. The thickness of a line connecting two nodes is proportional to the value of the bilateral exposures between that pair of banks. Data source: FSA returns for 2009Q2

C) Interconnections: International Banks...

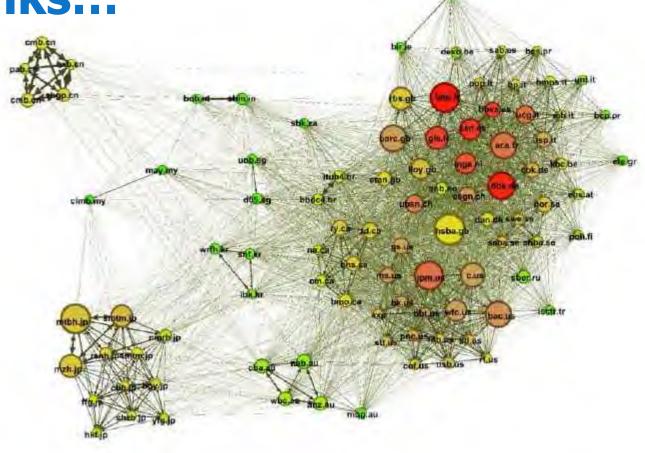
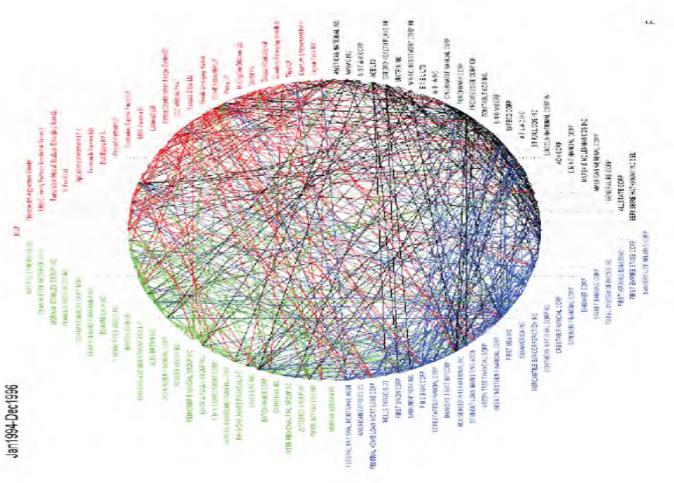


Figure 2: Individual Bank Network Graph, 2003-2014



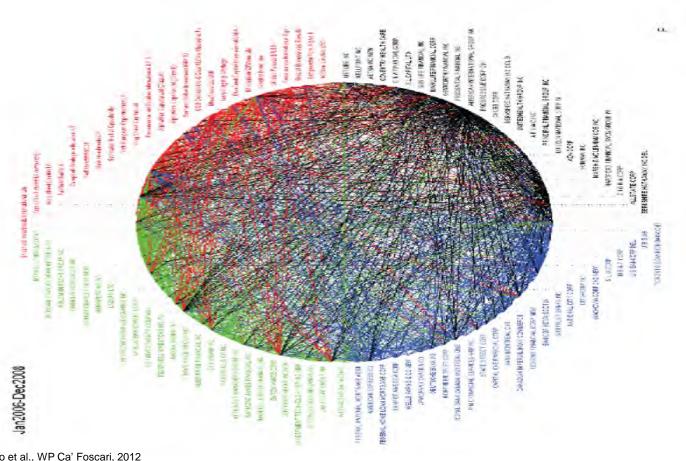
C) Interconnections: Markets in the '90 ...



Billio et al., WP Ca' Foscari, 2012



C) Interconnections: Markets ten years later ...



Fonte: Billio et al., WP Ca' Foscari, 2012



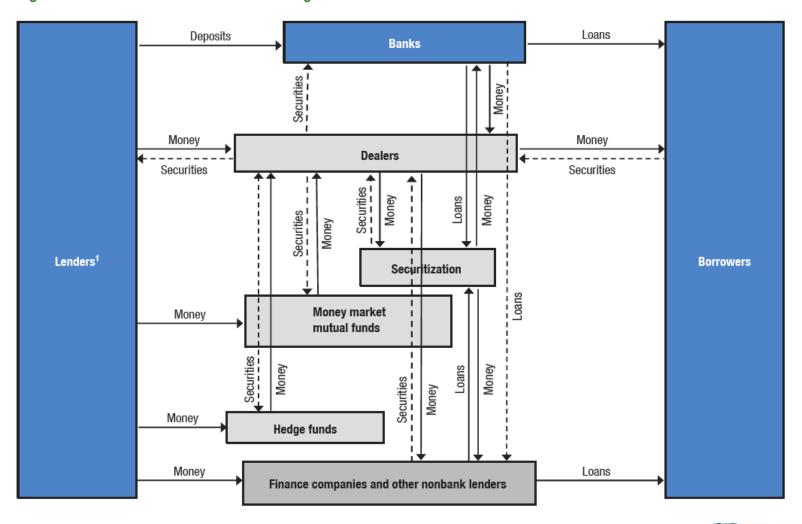
Final Result: Shadow Banking and Leverage Economy

- Shadow Banking = Non Banking Firms which perform Banking Activities
- □ Banking + Shadow Banking = A Big,
 Complex and Interconnected Finance =
 Leverage Economy

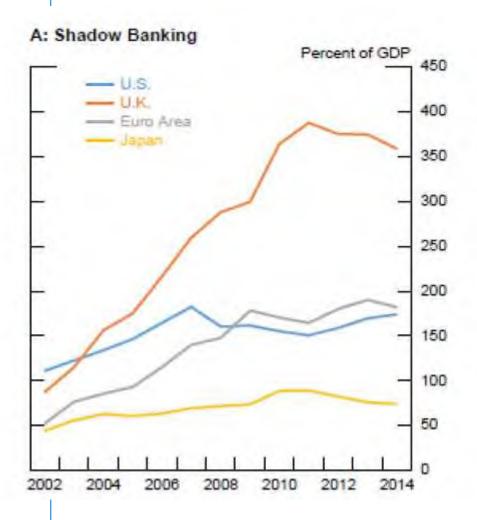


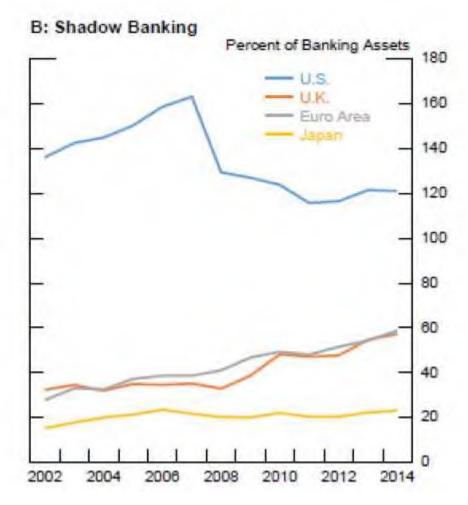
1) Shadow Banking

Figure 2.3. Traditional versus Shadow Banking Intermediation



1) Shadow Banking



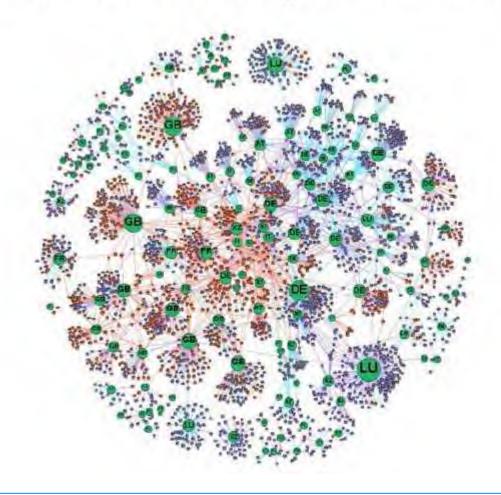


Source: Claessens, 2016



1) Shadow Banking and Banking: EU

FIGURE 4. Network of EU banks' exposures to shadow banking entities



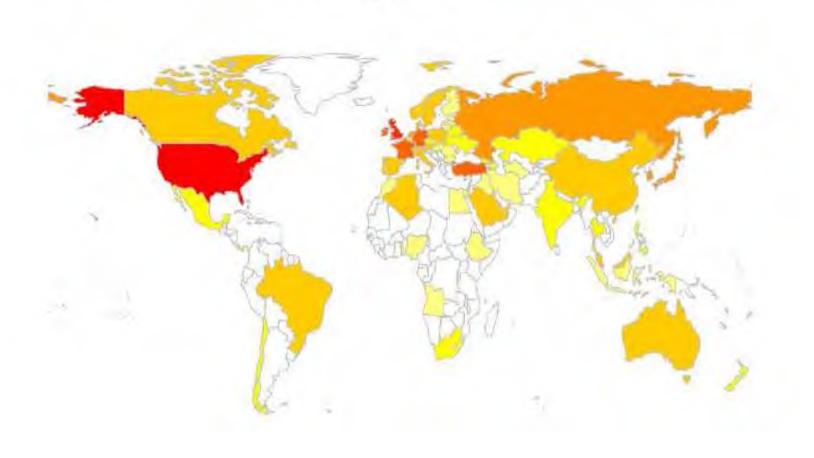
1) Shadow Banking and Banking: EU

TABLE 2. Distribution of EU banks' exposures to shadow banking entities by country of reporting institution and domicile of shadow banking entity (as a % of GDP of country of reporting bank)

B/SB	DE	FR	GB	IE	JE	KR	KY	LU	NL	RU	TR	US	O-EU	RW	Total
AT	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.0	0.2	1.0	0.2	2.2
DE	1.0	0.0	0.2	0.3	0.0	0.0	0.1	0.3	0.1	0.1	0.1	1.2	0.1	0.3	3.9
FR	0.0	0.8	0.2	0.1	0.0	0.1	0.2	0.1	0.1	0.0	0.0	1.5	0.1	0.5	3.8
GB	0.3	0.3	2.4	1.0	0.8	0.4	1.3	0.6	0.2	0.1	0.2	4.4	0.2	2.9	15.0
IT	0.0	0.1	0.2	0.2	0.0	0.1	0.0	0.2	0.0	0.1	0.5	0.0	0.2	0.2	1.7
LU	2.4	1.5	1.8	1.0	0.0	0.0	0.6	5.5	6,5	0.5	0.0	0.1	2.1	0.8	22.9
O-EU	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	1.1
Total		0.2	0.5		0.1	0.1			0.1		0.1	1.2	0.2	0.6	4.3

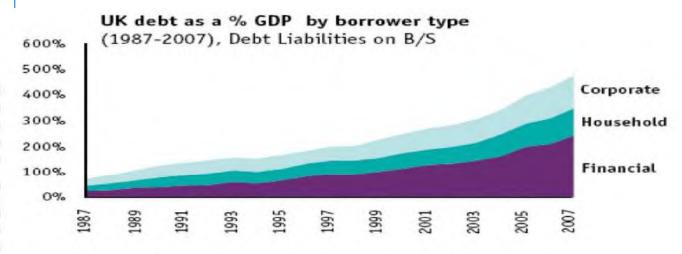
1) Shadow Banking and Banking: EU

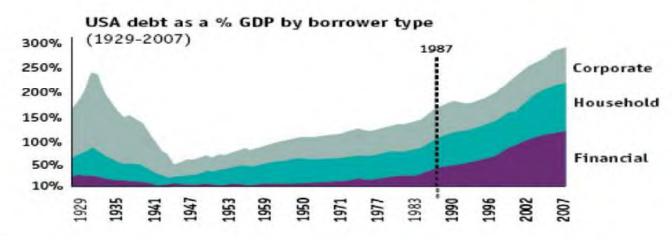
FIGURE 7. Geography of risk: distribution of exposures by domicile of shadow banking entities



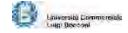
Rocconi

2) Leverage Economy



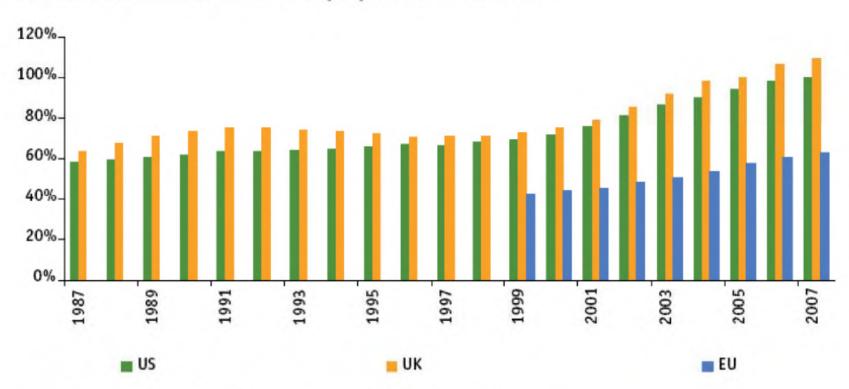


man



2) Leverage Economy

Exhibit 1.4: Household debt as proportion of the GDP



Source: ONS, Federal Reserve, Eurodata, Bureau of Economic Analysis, FSA calculations

Summing Up

- The Great Moderation = a NICE period
- NICE = Non inflationary consistently expansionary = stable growth with low inflation
- With high private debt = a
 LEVERAGED NICE period
- The Great Moderation: Pros and Cons ...



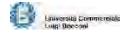
GM, i.e. The Quiet before the Storm ...



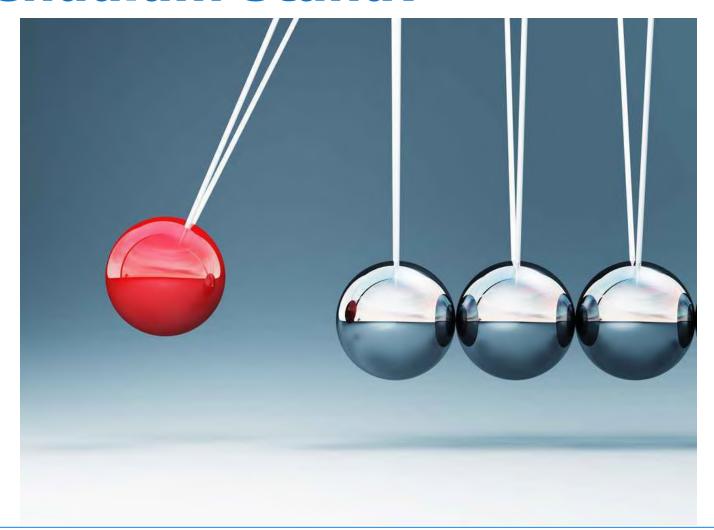


... The Storm (GC)





Today: Where Does The Pendulum Stand?



Today: Where Do We Stand?

	Volcker	Liikanen	Vickers		
Broad approach	Institutional separation of commercial banking and certain investment activities	Subsidiarisation: proprietary and higher-risk trading activity have to be placed in a separate legal entity	Ring-fencing: structural separation of activities via a ring fence for retail banks		
Deposit-taking institution may:					
- deal as principal in securities and derivatives	No	No	No		
engage in market-making	Yes	No	No		
perform underwriting business	Yes ¹	Yes	Restricted		
hold non-trading exposures to other financial intermediaries	Unrestricted	Unrestricted	Restricted (inside the group)		
Holding company with panking and trading subsidiaries	Not permitted	Permitted	Permitted		
Seographical restrictions	No	No	Limitations for ring-fenced banks in the UK to provide services outside the European Economic Area		

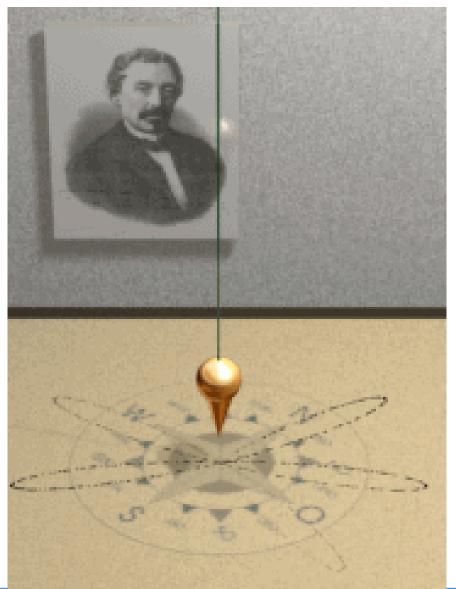
Source: Gambacorta & van Rixtel, 2013 BIS WP 412



Bocconi

Which Pendulum?

- Main Lesson: One Size doesn't Fit All
- Insights:
- 1) Multi tools approach: theory, empirics and institutions
- 2) More contamination among Fields :
- Political Science; Law
- Zooming on the Actors...



Policymakers or ...

Welfare Maximizing

Players



Politicians

Career Concerned Players



Lobbies

- □1) Banks
- □2) Managers
- □ 3)
 Controlling
 Sharehold
 ers



In this political cartoon, Jackson destroys the Second Bank of the United States by withdrawing government deposits. As the Bank crashes, it crushes the director Nicholas Biddle (depicted as the Devil), wealthy investors (with moneybags) and the newspaper editors (surrounded by paper) who opposed Jackson on this issue. SQUECE LBIRDY of CONGRESS

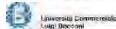


Bureaucracies

- □ 1) Regulators:
- □ A) Regulators vsRegulators
- □ B) Capture Regulation

Otherwise ...





Conclusion?

