

Shadow Banking— What are We Really Worried About?

Dr. Laura E. Kodres International Monetary Fund November 8, 2013

- During the crisis we observed ... runs
- Runs on banks from wholesale funding sources:
 - Repo funding of U.S. investment banks
 - MMMF funding of commercial and universal banks
 - ABCP funding (backed by mortgages)
- Runs on banks from retail depositors
- Runs on MMMFs from corporate cash pools and then retail investors

- During the crisis we observed ... leverage
- Risks in non-banks insufficiently backed by "capital"
 - MMMFs
 - Non-traditional insurance activities
 - SIVs/Conduits
- Lately we observe ... leverage and maturity mismatches
 - Wealth management products ("trusts") in China
 - M-REITs in the United States

Basic typology of systemic risk

Time-series component

- Buildups of leverage
- Maturity mismatches between assets and liabilities
- Procyclicality of margin/collateral valuation
- Cross-section (interconnectedness) component
 - Knock-on effects of shocks, potentially through long chains of intermediaries, often leading to runs (or "flight to quality"—types of contagion)
 - Interactions between funding and market liquidity (funding difficulties + fire-sales)

WHAT are we worried about?

- Uncontrolled, or hidden, leverage in nonbanks that adversely affect the financial system (and the real economy)
- Non-linear, amplified responses in market prices and quantities
- Bank-like maturity mismatches and depositlike features that are unsupervised and/or unprotected by a safety net
 - Products where investors expect to be able to make instant withdrawals (often at face value) but assets are longer-term
 - Examples: MMMF, WMP (China), M-RIETs

What are we NOT worried about?

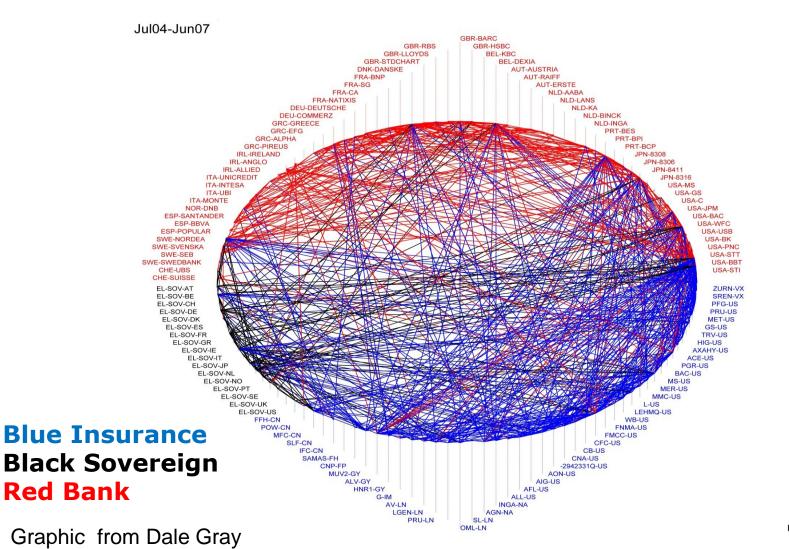
- Growth of market-based financing of credit
- Financial access: savers and borrower using alternative means or institutions to execute utility enhancing transactions.
- Unleveraged transactions and investments (e.g., pass-through mutual fund with variable net asset value)
- Pure" payment systems with wellconstructed infrastructures

- Degree of leverage (capital adequacy)
- Degree of maturity mismatch
- Cash holdings for redemptions
- Operational risk measurement;
 - Legal documentation
 - Clearing/settlement/custody security
 - Client disclosures and customer protections
- Other, yet devised, measures in accordance with conceptual advances

Challenges in assessing systemic risks

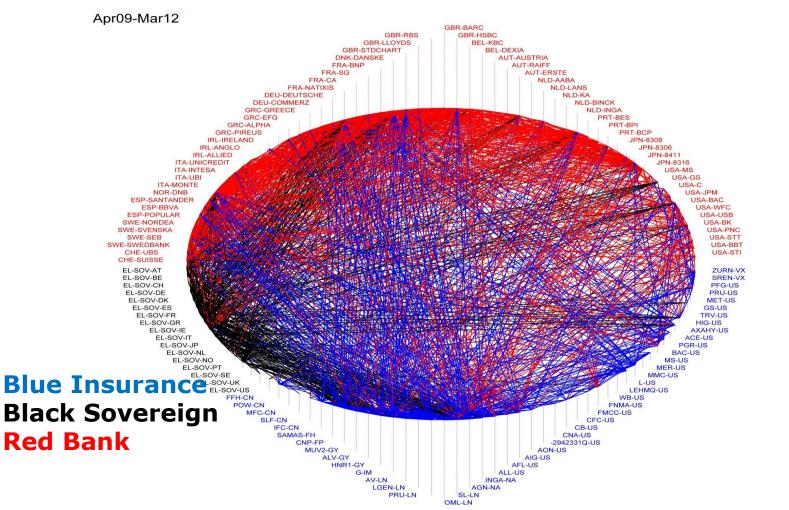
- Data on size of exposures (not AUM) from nonbank institutions (data collection expanded to include those outside regulatory perimeter)
- Judging what is acceptable risks (how much leverage can shadow banks take on without risking the system)
 - E.g., financial companies
- How to tell if investors understand the risks they have incurred
 - Are disclosures adequate?
 - Are investors "sophisticated"? Able to absorb losses?
- Data/information about interconnectedness
 - Collection of raw data
 - Transparency (To whom? When? How much?)

Sovereign, Bank, Insurance Connections



P-Value=0.01

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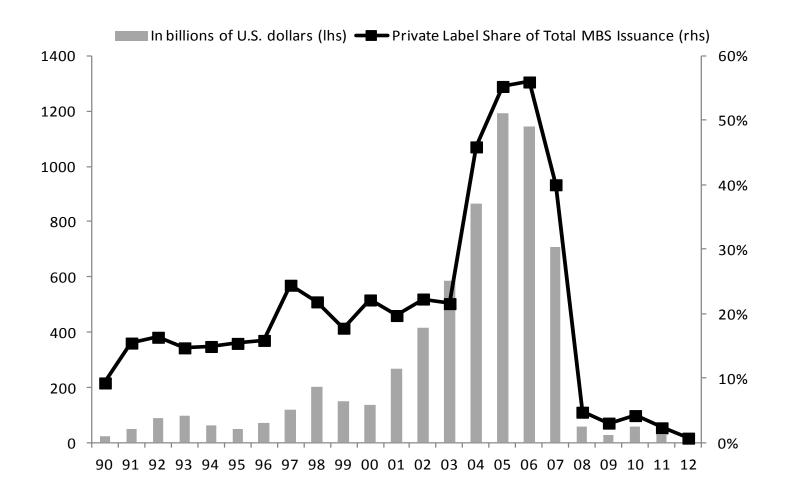
Ex: Yu'E Bao—should we worry or not?

- China's first on-line investment fund for individuals (automated transfers between bank checking/Alibaba account/Yu'E Bao)
- Connected to Alipay, China's 3rd largest thirdparty payment platform with 800 m. customers
- Now largest MMF—RMB 55.7 billion (\$9.2 billion)
- 13 million customers at end-Sept (launched in June)
- □ Interest rate is ~5% (vs 0.35% in bank deposits)
- Redemptions can be made at any time
- Apparently, investments are in government and corporate money markets

What do we do if systemic risk is too high?

- Bring within regulatory perimeter/observe
- Lower leverage (impose "capital requirements")
- Lower maturity mismatches through regulation or incentives
- Build liquidity (redemption) buffers
- Educate customers
- Make activities too expensive to execute
- Reduce interconnectivity (using?)
- Outlaw activities?

U.S. Private-Label MBS Issuance



Source: Inside Mortgage Finance and IMF staff estimates

Underpinning steps: incentives

- Adjust private sector compensation to cover long-run risks, not just short-run returns
- Ensure empowerment of supervisors and regulators
- Resurrect "incentive compatible regulation"

Incentive Compatible Regulation - NOT!



"These new regulations will fundamentally change the way we get around them."

Underpinning steps: information

Provide basic information to prevent panics

- Provide granular information to supervisors and regulators
- Remove some types of confidentiality to be able to provide more information to the public
- Balance systemic risk with protection of competition to produce efficient and effective economy



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