

# **The doom of structured credit: lessons for future regulation**

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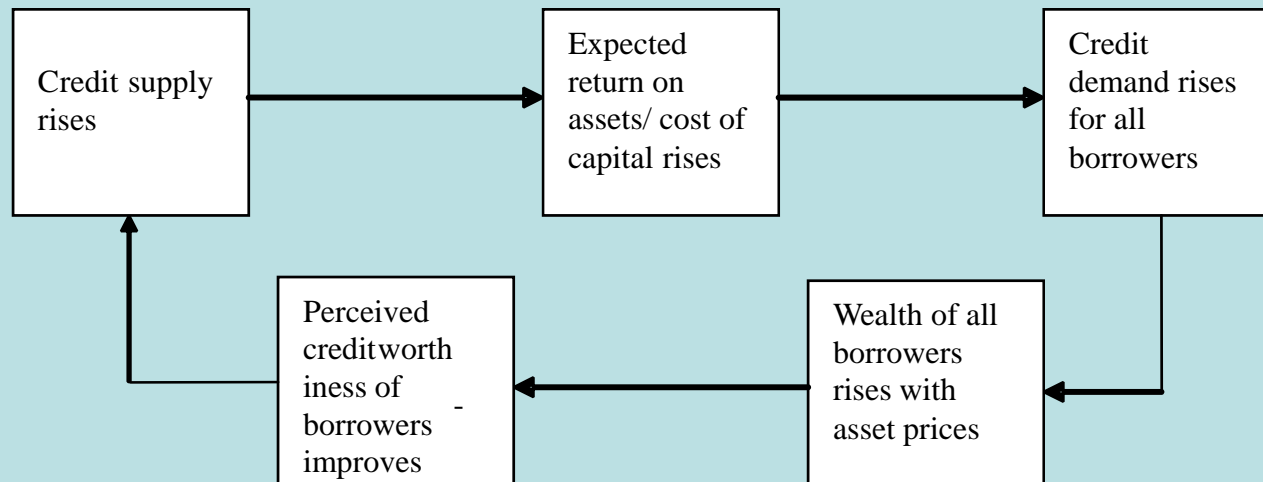
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# Hard questions that should be asked

- Why are market-financed economies systematically prone to recurrent financial crises?
- Why has the investment bank model of credit (O&D) so miserably failed?
- Why has the valuation of risk been so misleading for the investing community?
- What are the lessons to be drawn for future regulatory reform?

# Embedded instability in market finance dynamic

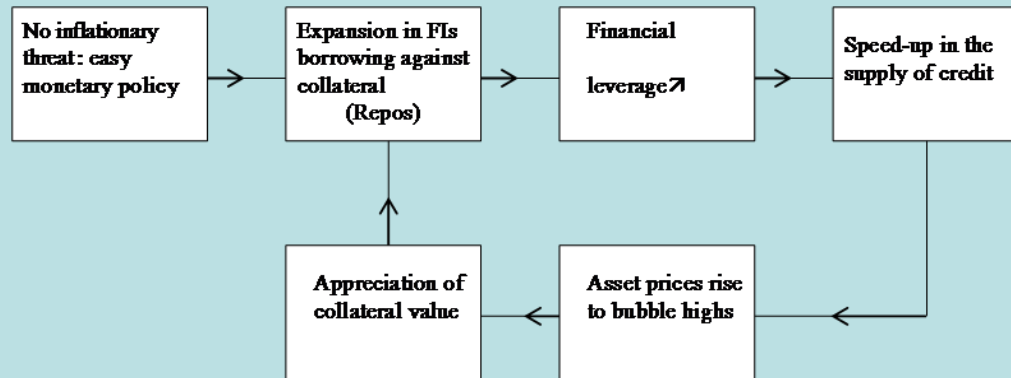
- Credit markets are not standard supply and demand markets:
  - For price to drive an adjustment to equilibrium between supply and demand the *demand curve must be independent of the supply curve*
  - This is not so with credit while debt is issued against promises of future asset price appreciation and not against future income of individual borrowers : *credit supply creates its own demand in a roundabout way* → non-stabilizing positive feedback process
  - *Individual credit demand functions are not independent:* they contribute to the rise in asset prices, therefore to the general increase in wealth



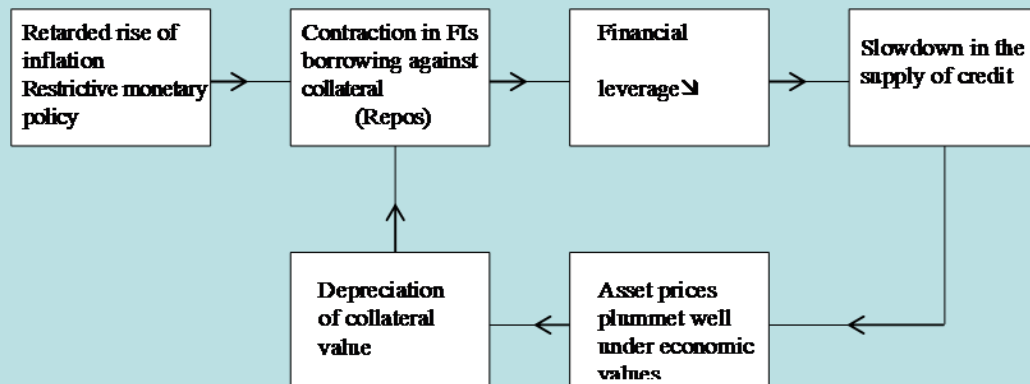
# Embedded instability in market finance dynamic

- Monetary policy is not well-equipped to monitor the financial cycle because the credit-induced asset price bubble formation is largely decoupled from the concern with price stability

## *Euphoric stage of credit expansion and asset price rise*



## *Depressive stage of credit contraction and asset price slump*



# Securitization is not the problem, the behavior of all financial intermediaries and rating agencies is

## Benefits of properly managed securitization

- *Benefits:*
  - Financing costs ↘
  - Risk spread more evenly
  - Larger portfolio choices
- *Proper management:*
  - Credit to be packaged secured and standardized
  - Liquidity secured by secondary market or by regulating agencies
  - No deterioration of credit quality at origination
  - Ultimate holders of risk able to make independent assessment and exert market discipline on intermediaries

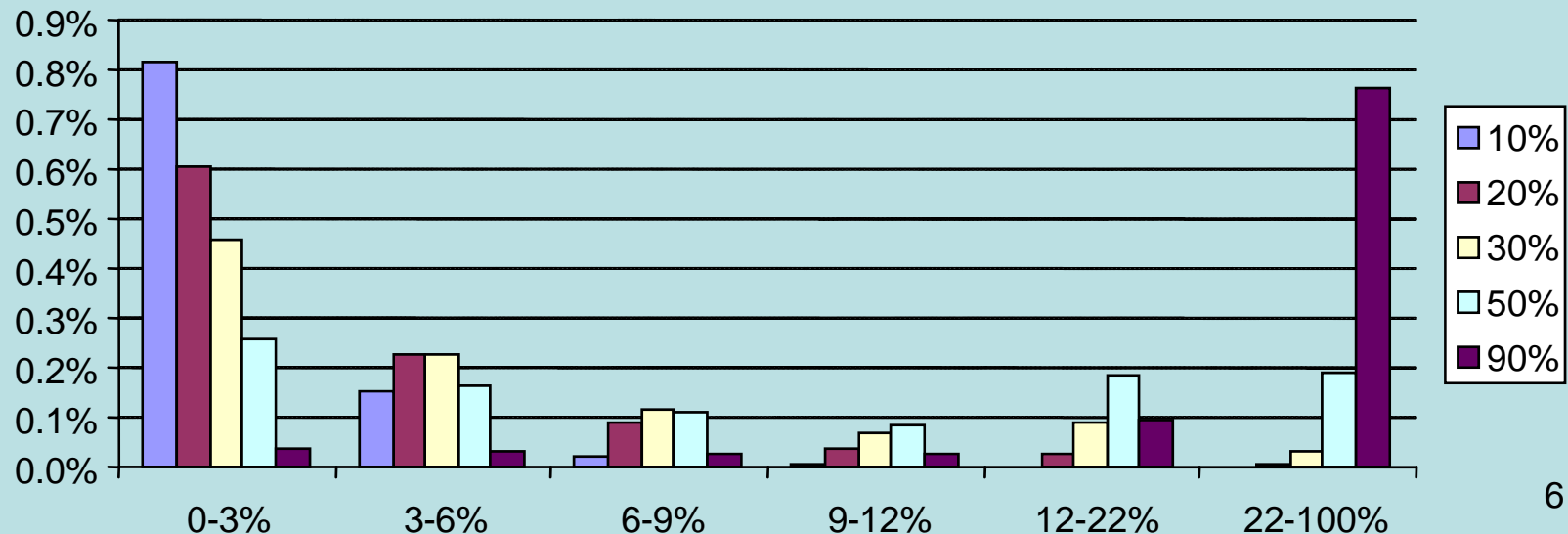
## Damages inflicted by the unsecured O&D model

- *Loss of info, conflicts of interests*
  - Securitization for regulatory arbitrage
  - Incentive structure favors volume against quality of credit at origination
  - Risk packaged in unconsolidated and unregulated off-balance sheet structures
- *Massive flaws in risk valuation by rating agencies:*
  - Ratings are highly misleading as assessment of risk
  - Investors were deprived of infos for an independent evaluation<sub>5</sub>

# The pitfalls in valuing risk of complex structured instruments

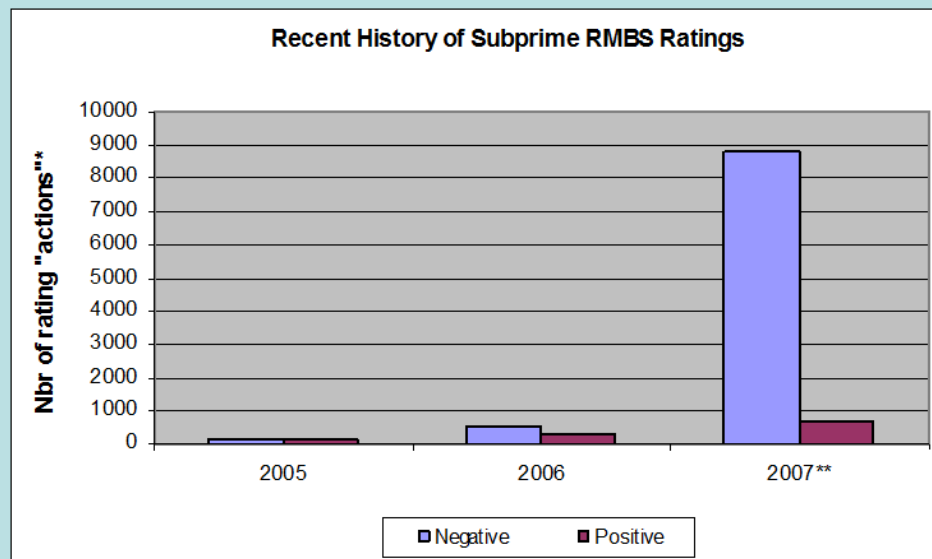
- *Rating agencies fooled by randomness*: a record of no more than 10 years for ABS led them to assume that no general decline in housing prices could arise: —→ inference of correlations amongst credits in pools to be structured <30% . Super senior tranches should be protected in all circumstances warranting AAA (*Hyp of a black swan ruled out*)
- Simulation of likely losses for the different tranches built upon a pool of mortgages for different levels of correlation with a 1% individual default loss

**Losses in the tranches by level of subordination for different correlations in the pool of assets**



# The demise of securitization in all its stages

- Origination: O&D model ———→ *no control of risk to be sold*
- Arrangers conceived totally unregulated and unconsolidated shadow banks to store the ABS and CDO to be transferred to investors, *minimizing capital requirements and maximizing financial leverage*
- Downstream investors had no info and no ability to make an independent assessment of risk ———→ *market discipline was a mockery*
- The massive downgrading of subprime RMBS attacked the super senior tranches and destroyed trust of investors ———→ *market financing of the shadow banking system seized all at once*



# Connection between credit and liquidity risk in the shadow banking system

- Conduits and SIV (hedge fund-like structures) were highly leveraged : *illiquid long-maturity assets financed by short-term liabilities*

**Financial Structure of a typical SIV (\$2b in assets) granted the highest rating**

Asset Portfolio			Financing		
Structure	Rating	Size(%)	Structure	Size (\$ mil)	Size (%)
RMBS	AAA	47.3	Primary dealer credit + ABCP	1820	91.0
CMBS	AAA	15.4	Senior Securities	120	6.0
CDO	AAA	25.0	Mezzanine Sec	57	2.85
Other ABS	AAA	12.3	Capital	3	3

- While rating agencies had downgraded securitized assets across the board, ABCP could no longer be rolled over. Off-balance sheet structures became entirely dependent on primary dealer financing. Because of huge counterparty risk, investment banks decided to reconsolidate what they had unwisely deconsolidated → *very large and recurrent liquidity requirements in the global money market*



# Regulatory reforms: counter-cyclical tools

- **Central banks should play a broader role in prudential regulation:**
  - Investment banks have been brought under the umbrella of the LLR → *too big-to-fail replaced by too interconnected-to-fail*
  - hands-off policy in leverage-induced asset price dynamics (Greenspan) has become untenable (Mishkin) → Dual mandate (financial stability / price stability) needs other tools than the interest rate: *reforming regulatory instruments to mitigate leverage in the euphoric stage of financial cycle*
- **Reforms impinge upon capital requirements and liquidity management:**
  - In squeezed spread cum asset bubble stage of the financial cycle, market value is everything but fair value → *modulating capital adequacy according to an averaging formula over the cycle*
  - *Bank supervisors should look more closely to maturity mismatches, including shadow banks tightly connected to primary dealers (disclosure should be imperative)*
  - *Central banks should provide flexible liquidity schemes to avoid stigma pbs in crisis and induce banks to hold adequate liquidity in normal times*

# Regulatory reforms: market discipline

- **Strengthening the securitization process:**
  - Close all incentives for regulatory arbitrage: *securitize for sound economic reasons*
  - Prohibit securitized instruments whose risk assessment by arrangers and risk traders escapes cross-valuation by ultimate risk holders
  - Undertake an in-depth review of the methodology of rating agencies applied to structured credit: meaning of the uniform rate scale for pools of assets whose time structure is fixed against credit events, lack of sensitivity to tail risks, exacerbated conflicts of interests
- **Two ways of market discipline**
  - *standardize pools of credit so that tranches of securities are traded on organized Exchanges: trades against the clearing house, multilateral netting, daily mark-to-market of exposures, margin requirements*
  - *Enhance transparency among all intermediaries in the securitization process (hedge funds included) so that investors are capable of risk evaluation of their owns: compulsory disclosure in composition of asset pools, assumptions on systematic risk factors, impact of shocks on asset return correlation.*