

# Understanding the Role of Debt in the Financial System\*

13<sup>th</sup> BIS Conference, Lucerne  
June 27, 2014

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\*Based on joint work with Tri Vi Dang and Gary Gorton

# Two very different systems

## Stock markets

- Risk sharing
- **Price discovery**
- Information sensitive
- Transparent
- Big investments in info
- Many traders (**exchanges**)
- Trading not urgent

## Money markets

- Lending/depositing
- **Obviating price discovery**
- Information insensitive
- Opaque
- Modest investments in info
- Few traders (**bilateral**)
- Trading urgent

# Two ways to liquidity

Widely agreed:

Symmetric information about payoffs => liquidity

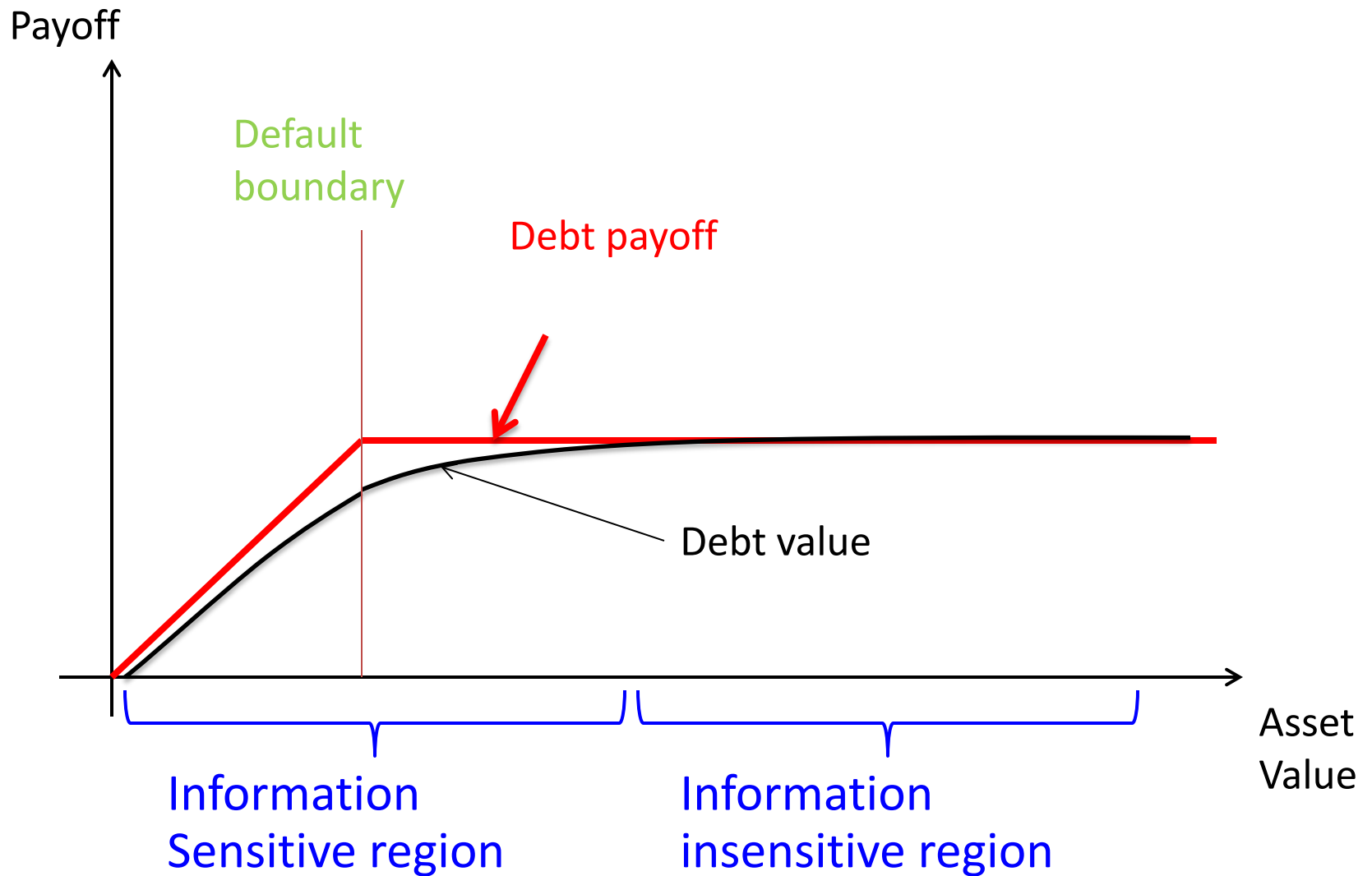
Two ways to symmetric information:

Investors know everything of relevance (EMH)

Symmetric ignorance

Partial transparency can create adverse selection

# Why debt?



# An unpleasant trade-off

- Relying on debt, securitization, coarse ratings, mechanical rules... makes sense in good times

but....

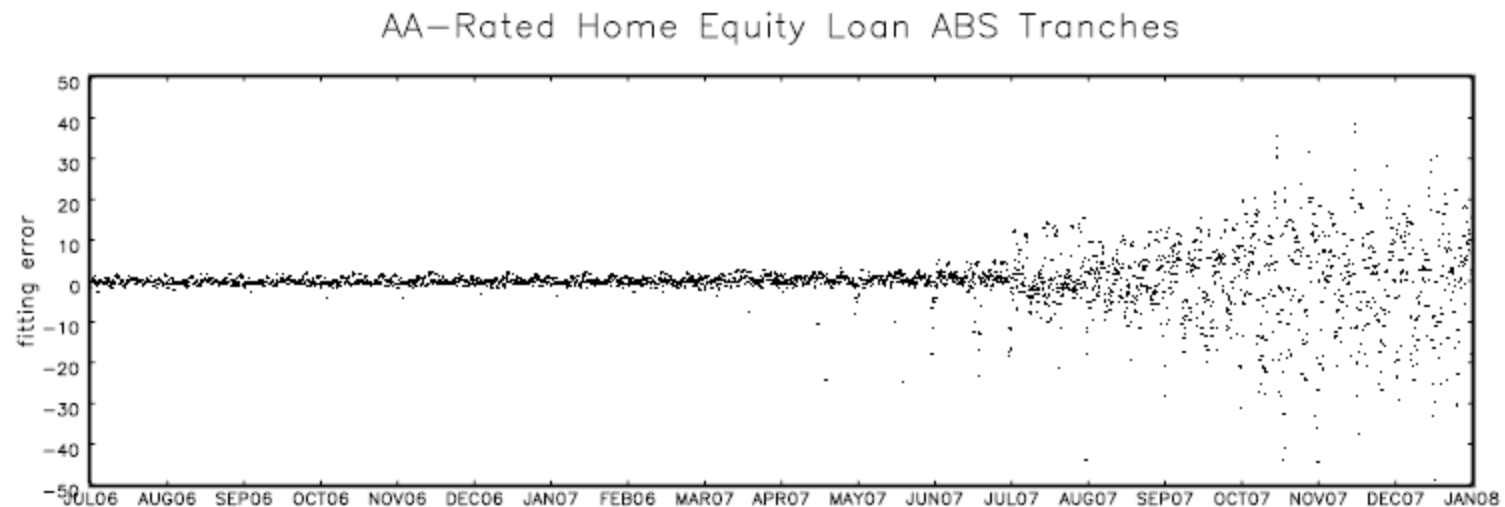
- pushes risk into tail
- hides systemic risk
- Unpleasant trade-off: Enhanced liquidity, but increased risk and cost of a crisis

# Examples of purposeful opacity

- De Beers and diamonds
- coarse bond ratings
- money market funds
- securitization
- “whatever it takes”
- CB policy
- money
- bubbles

# Trading in AA Home Equity Loan tranches Aug 2006-Jan 2008

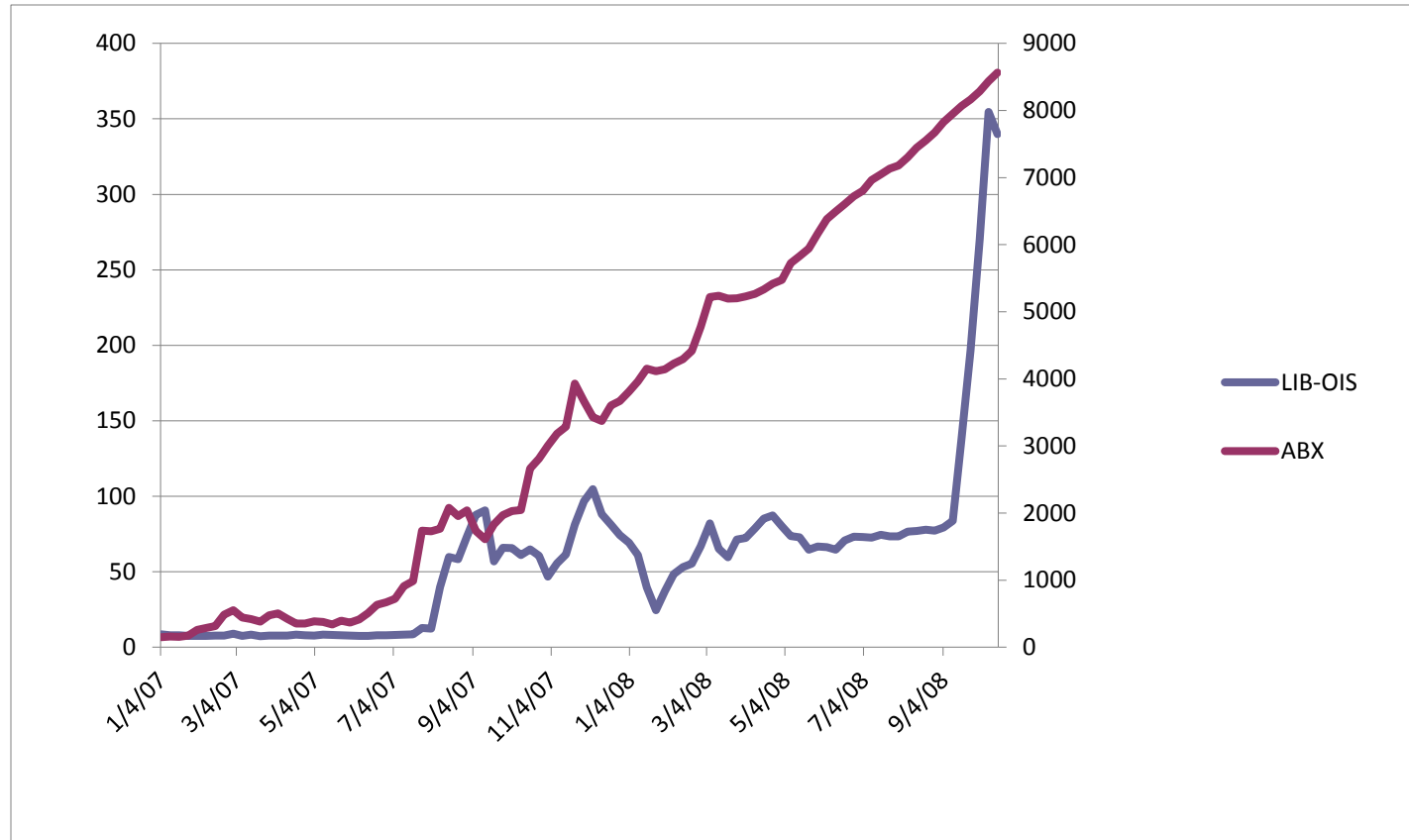
- Ex ante: shared understanding (No Questions Asked)
- Bear collapse Jul 2007 releases “trapped information”
- Ex post: Private information relevant



Perraudin-Wu (2008)

# Did transparency help?

## ABX versus LIB-OIS spreads





# Shadow banking

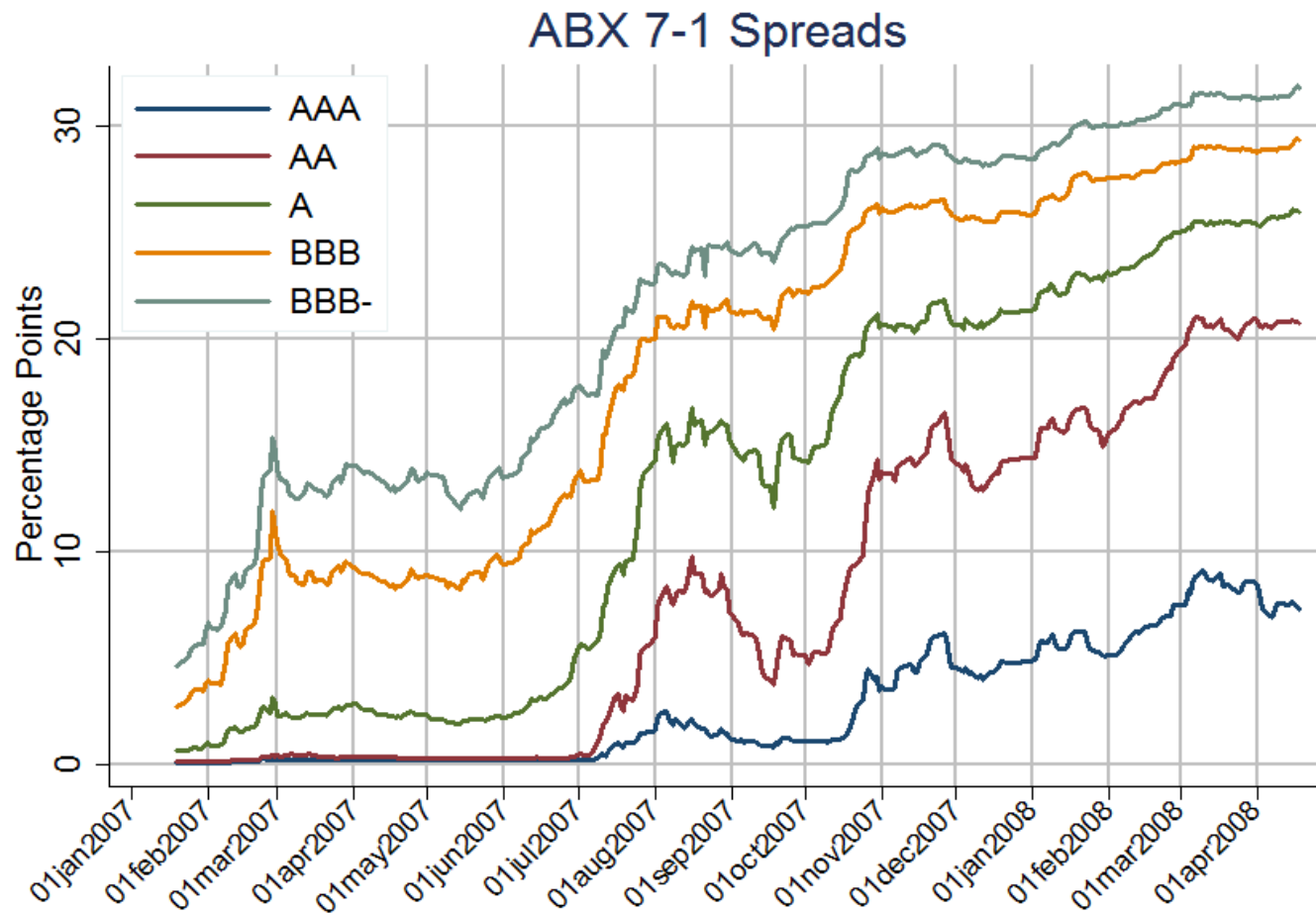
- Why now?
  - Global savings/banking glut
- Why US?
  - Underutilized housing pool
  - Had financial engineering technology
- Why shadow banking?
  - Securitization (not alchemy)
  - Rapidly scalable; global reach
  - Contingent (dynamic) use of collateral

# Some lessons

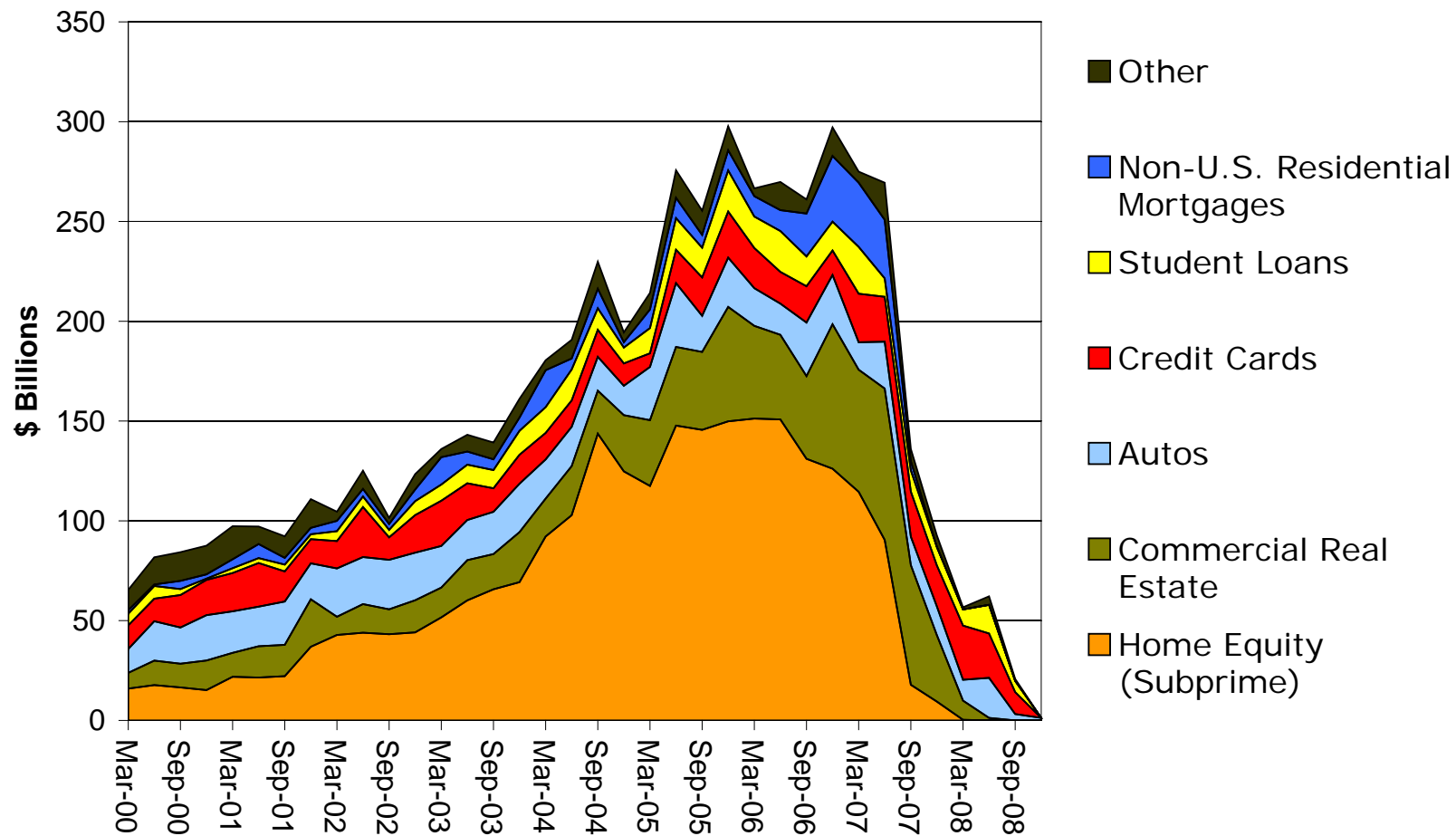
- Don't regulate based on crisis state alone
- Cautious using stock market as reference
- More transparency => less liquidity (in NQA sense); may be good in good times: MMMF
- Stress tests – with corrective action: EU vs US
- Capital requirements
- Reduced transparency in bad times (historically)
  - Clearinghouses in 19<sup>th</sup> century
  - Bad banks in Scandinavian crisis 1991-92
  - “whatever it takes”

Thank you!

# Asset impairment – subprime spreads



# New Issuance of Asset Backed Securities



Source: JP Morgan

## Krishnamurthy, Nadel and Orlov (2011)

