

Understanding the Role of Debt in the Financial System*

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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

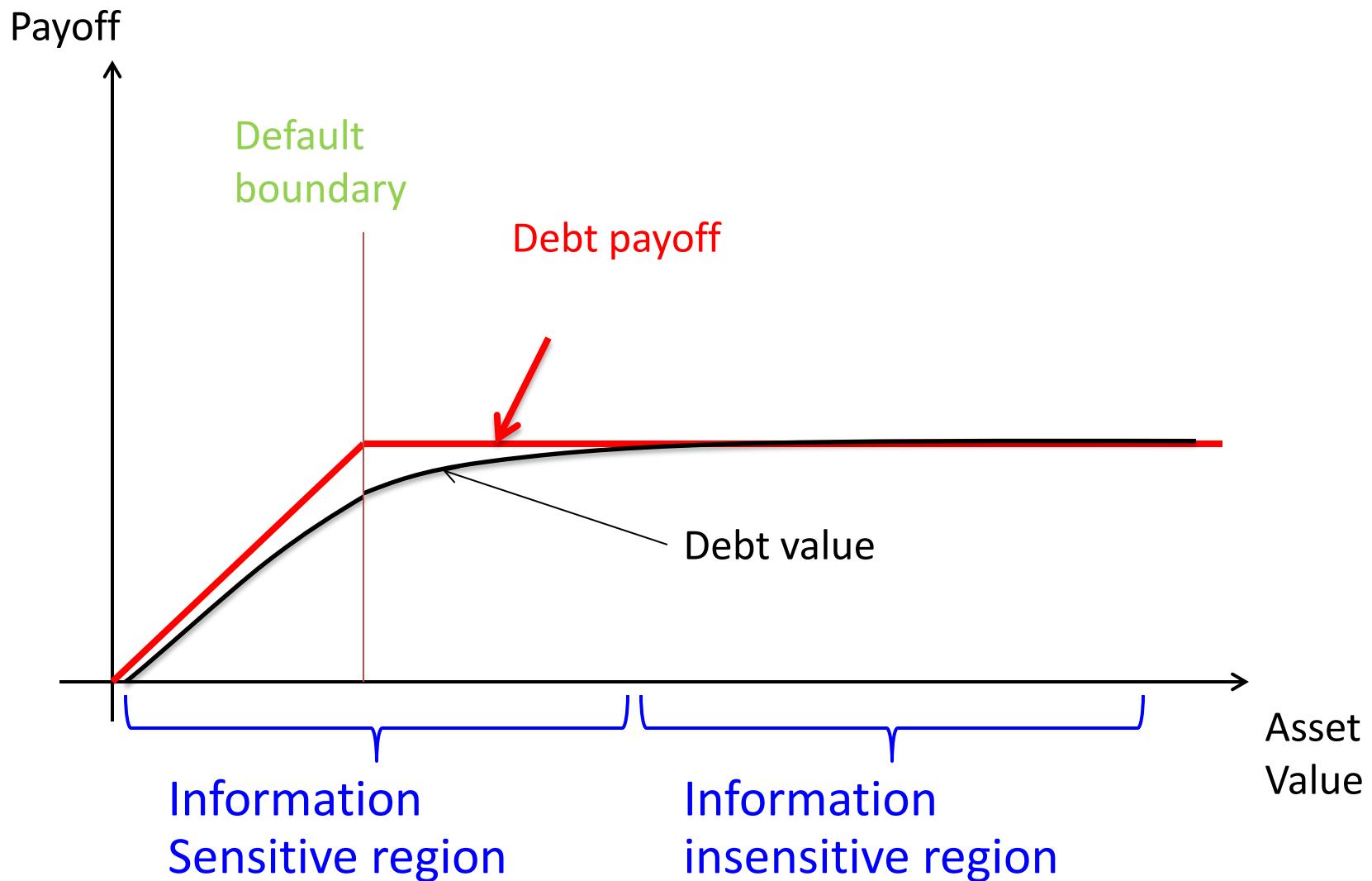
Two ways to symmetric information:

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....

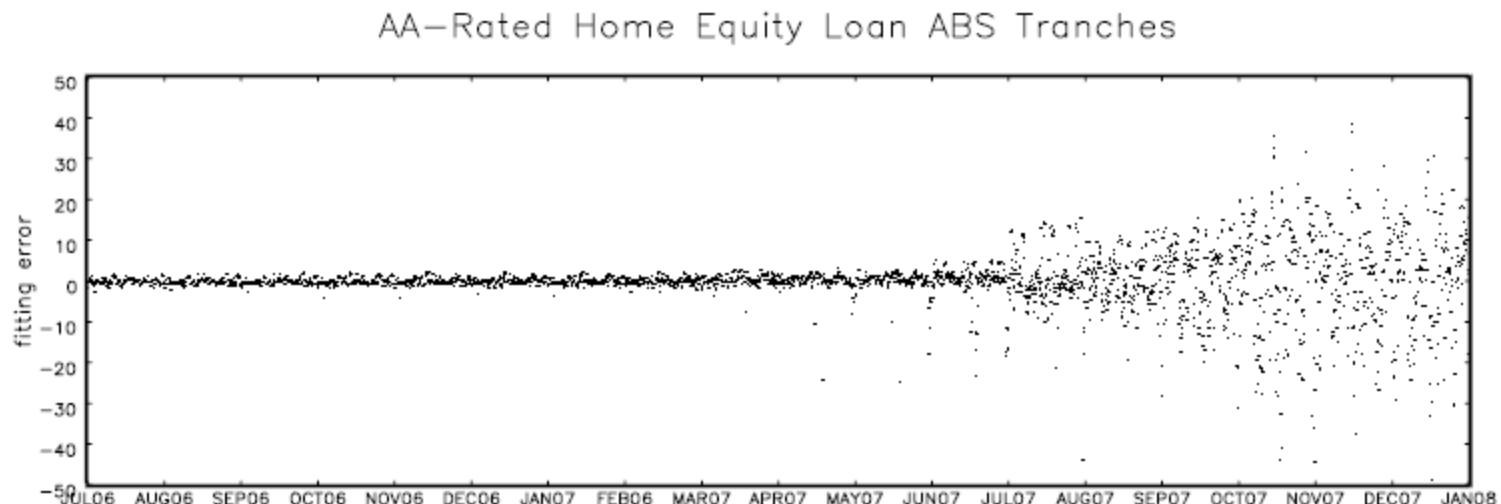
- pushes risk into tail
- hides systemic risk
- Unpleasant trade-off: Enhanced liquidity, but increased risk and cost of a crisis

Examples of purposeful opacity

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

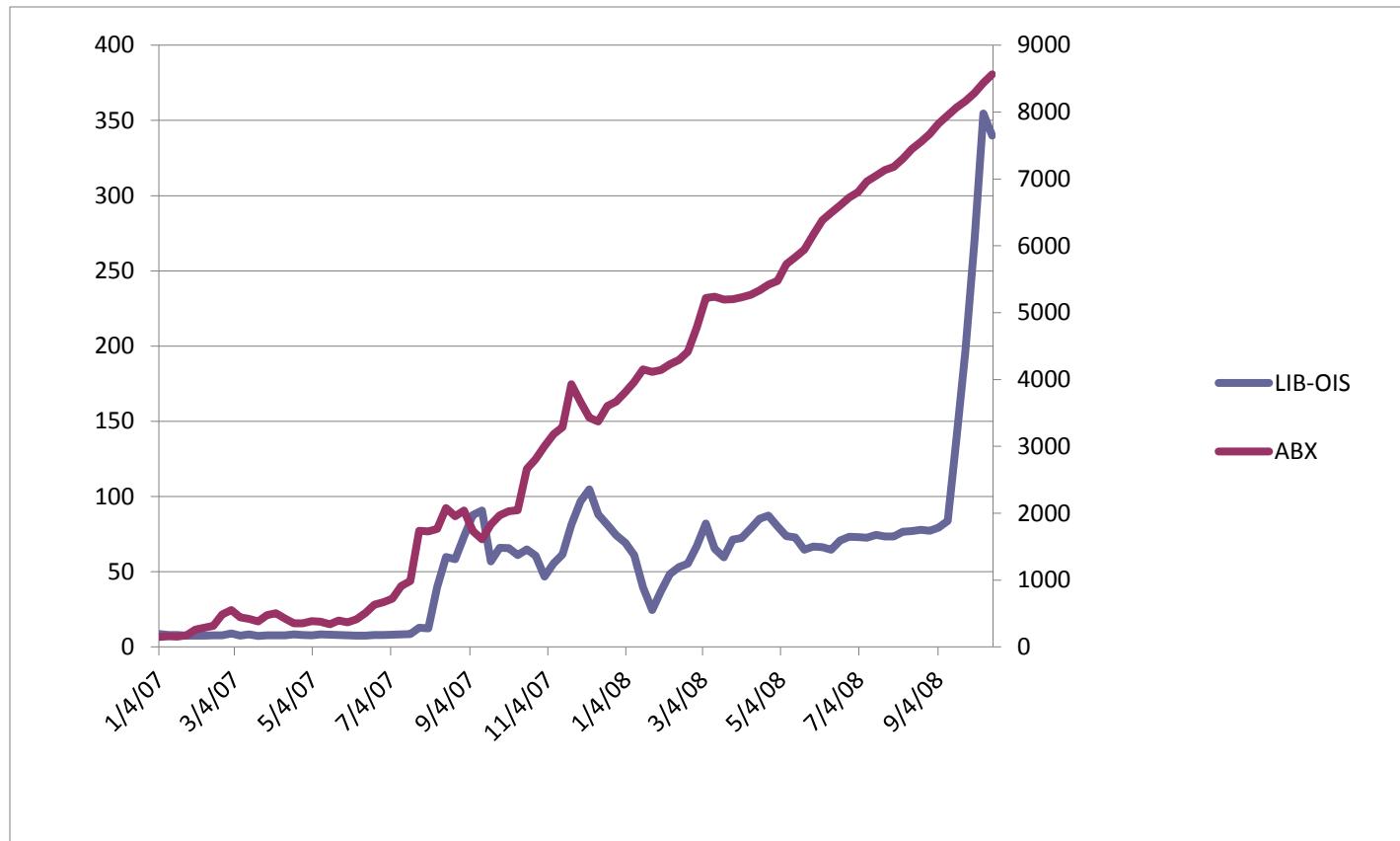
Trading in AA Home Equity Loan tranches Aug 2006-Jan 2008

- 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

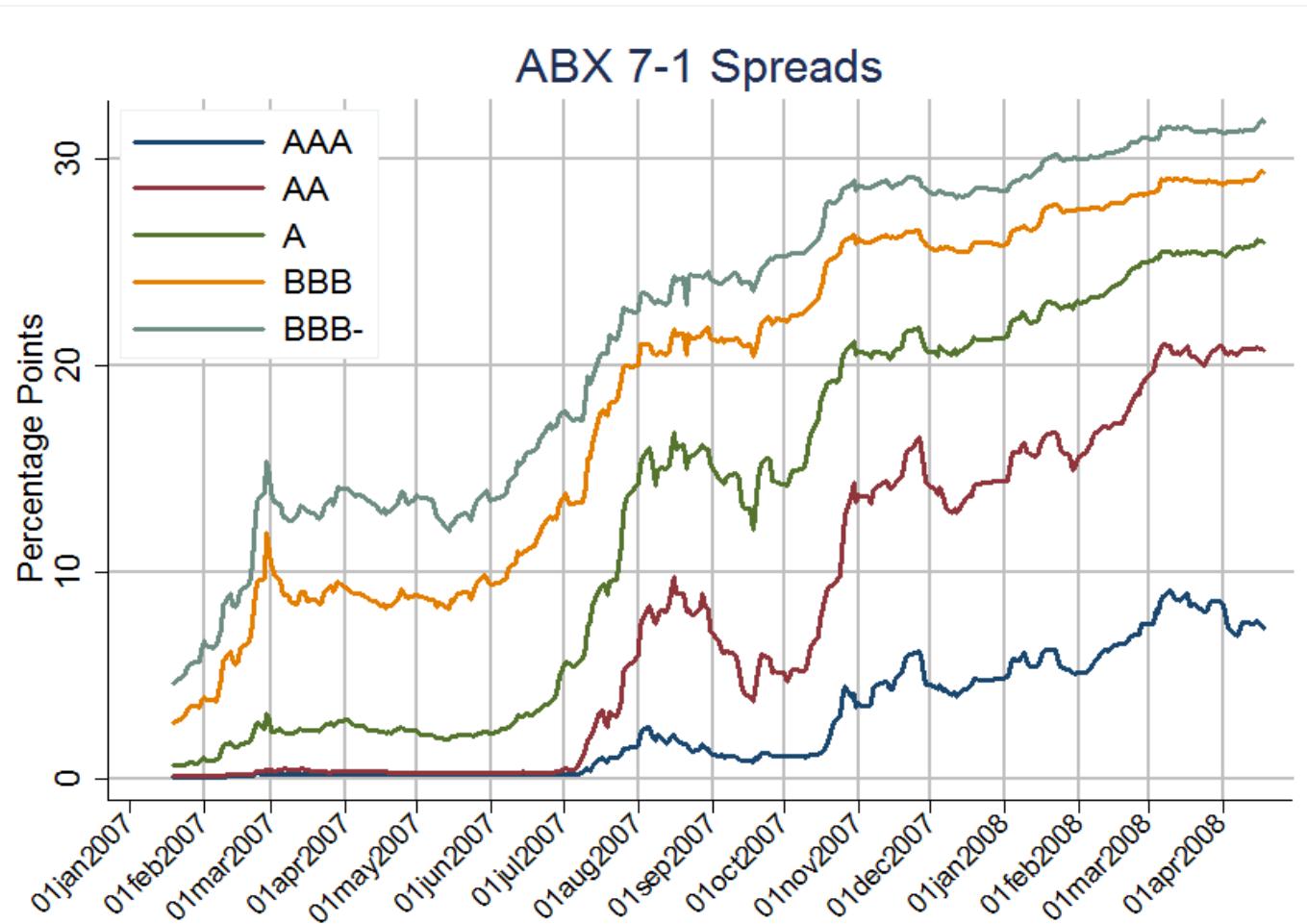
- Why now?
 - Global savings/banking glut
- Why US?
 - Underutilized housing pool
 - Had financial engineering technology
- Why shadow banking?
 - Securitization (not alchemy)
 - Rapidly scalable; global reach
 - Contingent (dynamic) use of collateral

Some lessons

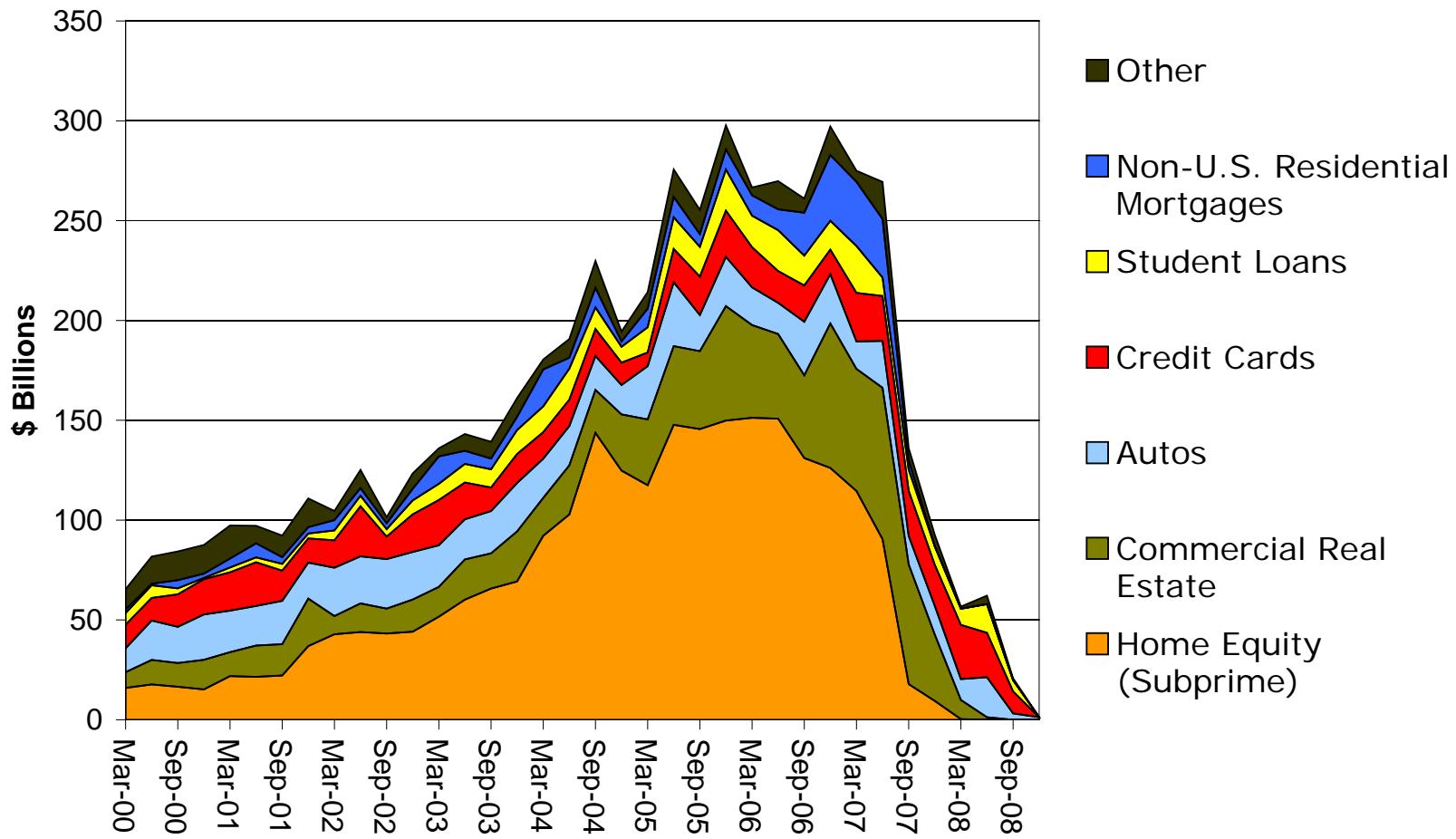
- Don't regulate based on crisis state alone
- Cautious using stock market as reference
- More transparency => less liquidity (in NQA sense); may be good in good times: MMMF
- Stress tests – with corrective action: EU vs US
- Capital requirements
- Reduced transparency in bad times (historically)
 -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

Thank you!

Asset impairment – subprime spreads

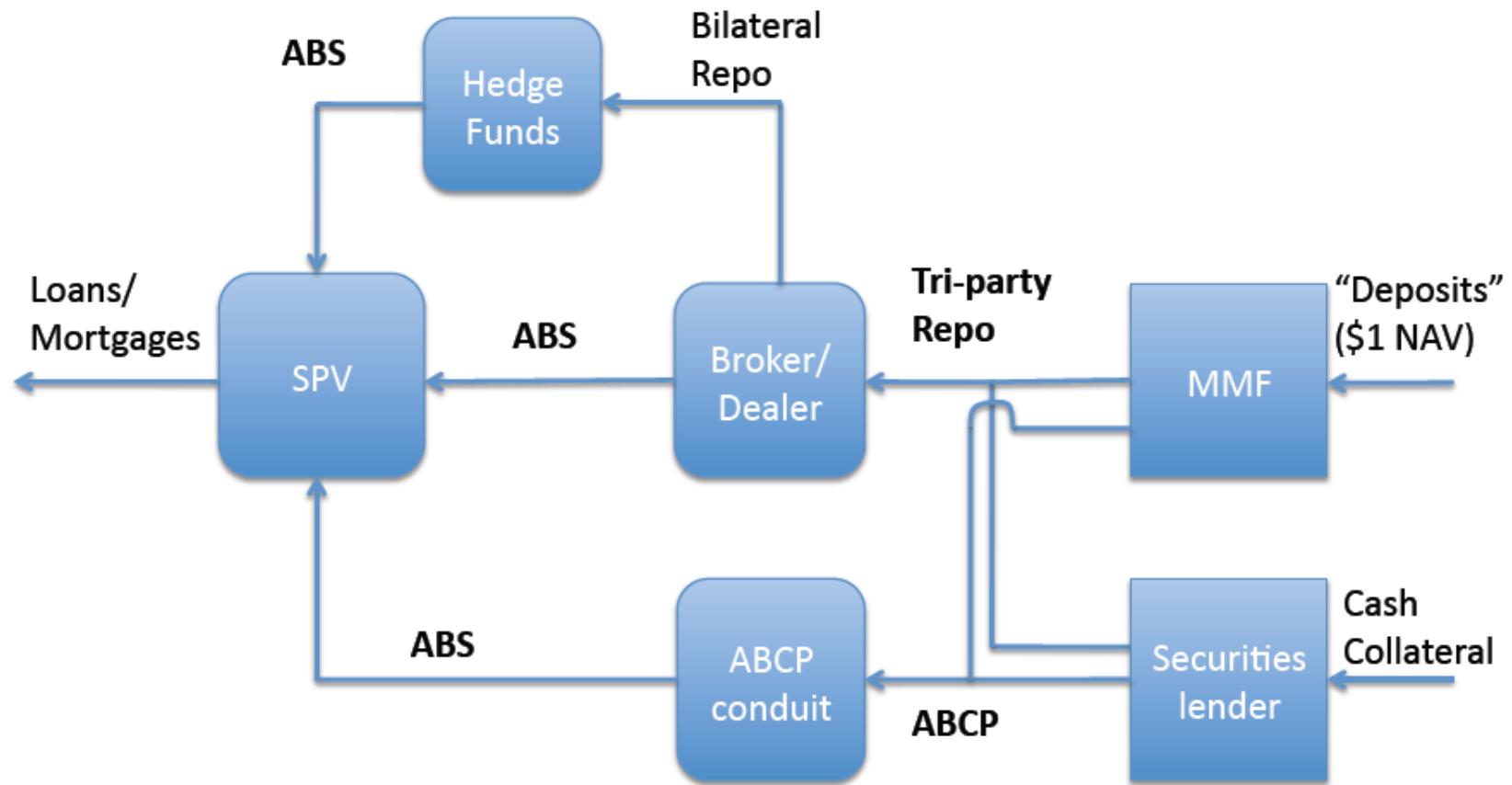


New Issuance of Asset Backed Securities



Source: JP Morgan

Using collateral more efficiently



Krishnamurthy, Nadel and Orlov (2011)