

# **Static TLAC vs. Dynamic CoCos**

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# Incentive Robustness

- The problems of inadequate measurement of risk ex ante and loss ex post reflect two sets of agents incentives to hide information.
- Bankers will pursue regulatory arbitrage (either due to value-maximization or agency)
- Supervisors have their jobs at stake, not their own money. They will forebear and permit evergreening, particularly because political equilibrium favors that.
- **An incentive-robust reform is one that works in spite of these two sets of agents incentive problems.**

# CoCos (Calomiris and Herring)

Establish a minimum uninsured CoCo requirement for large banks (a specially designed class of contingent capital), which improves risk management and capital raising incentives.  
(Calomiris, Herring 2011 based on Flannery)

- If designed properly (with sufficient conversion dilution risk), CoCos would incentivize **timely recapitalization** of bank to avoid dilutive conversion of CoCos.
- **Key point:** A combination of common equity and CoCo requirement can achieve more than a common equity requirement alone, and at a lower social cost.

# Contingent Capital's *Proper* Motives

- Contingent capital can be designed to accomplish several objectives, but these objectives conflict in their implications for CoCo design.
- CoCos cannot be all things to all people; we must choose what we want them to accomplish.
- If you begin with the list of important regulatory challenges listed on the prior slide, that implies the desirability of a particular CoCo design.

# Possible CoCo Motives Conflict

- a. Signalling (debt must be risky).
- b. Loss absorption/bail in (triggered near insolvency point).
- c. Incentivizing prompt replacement of losses via voluntary new issues of equity to avoid triggering dilutive conversion of large amounts of CoCos.
  - Early trigger not a bail in, debt not risky so little signalling, trigger is out of equilibrium event so loss absorption minimal.

# Prompt Issuance Objective Is Key

- Set trigger high (issuance is not occurring near failure point)
- Conversion should be dilutive (to encourage alternative of voluntary issuance)
- Make amount of CoCos large (to encourage alternative of voluntary issuance)
- Timely (costly) replacement of lost capital will not only protect against insolvency ex post, it will incentivize good risk management ex ante.

# Details of Our Proposal

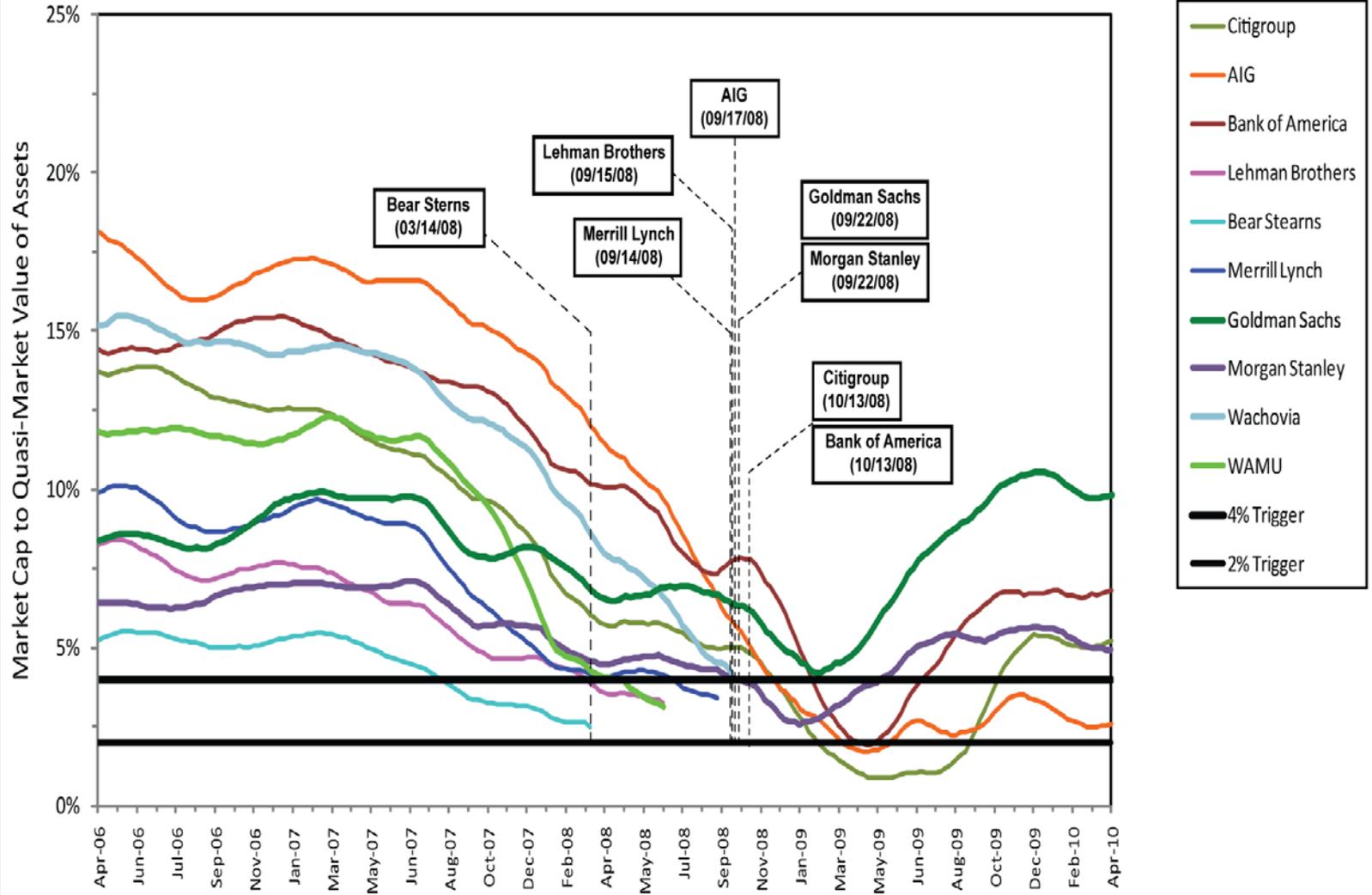
Primary Goal	Prompt Recapitalization
Min Amt of CoCos	10 percent of risk-weighted assets
Trigger	QMVER of 9%, using 90-day MA
Conversion ratio	5 percent dilutive of stockholders
Conversion amt	All CoCos convert on hitting trigger
Holder	Qualified institutions, no shorts
PCA trigger	If 9 % trigger is breached twice
Time to replace	If converted, within one year

# Would This Have Prevented Crisis?

- Crisis did not occur overnight; losses accumulated over long time and were visible in declining market values of bank equity.
- Lots of moments of calm in which capital could have been raised (fall-winter 2007, April-August 2008).
- Equity market was wide open to banks (\$450 billion was raised prior to September 2008).
- Institutions limited offering because of dilution (my breakfast with senior manager).

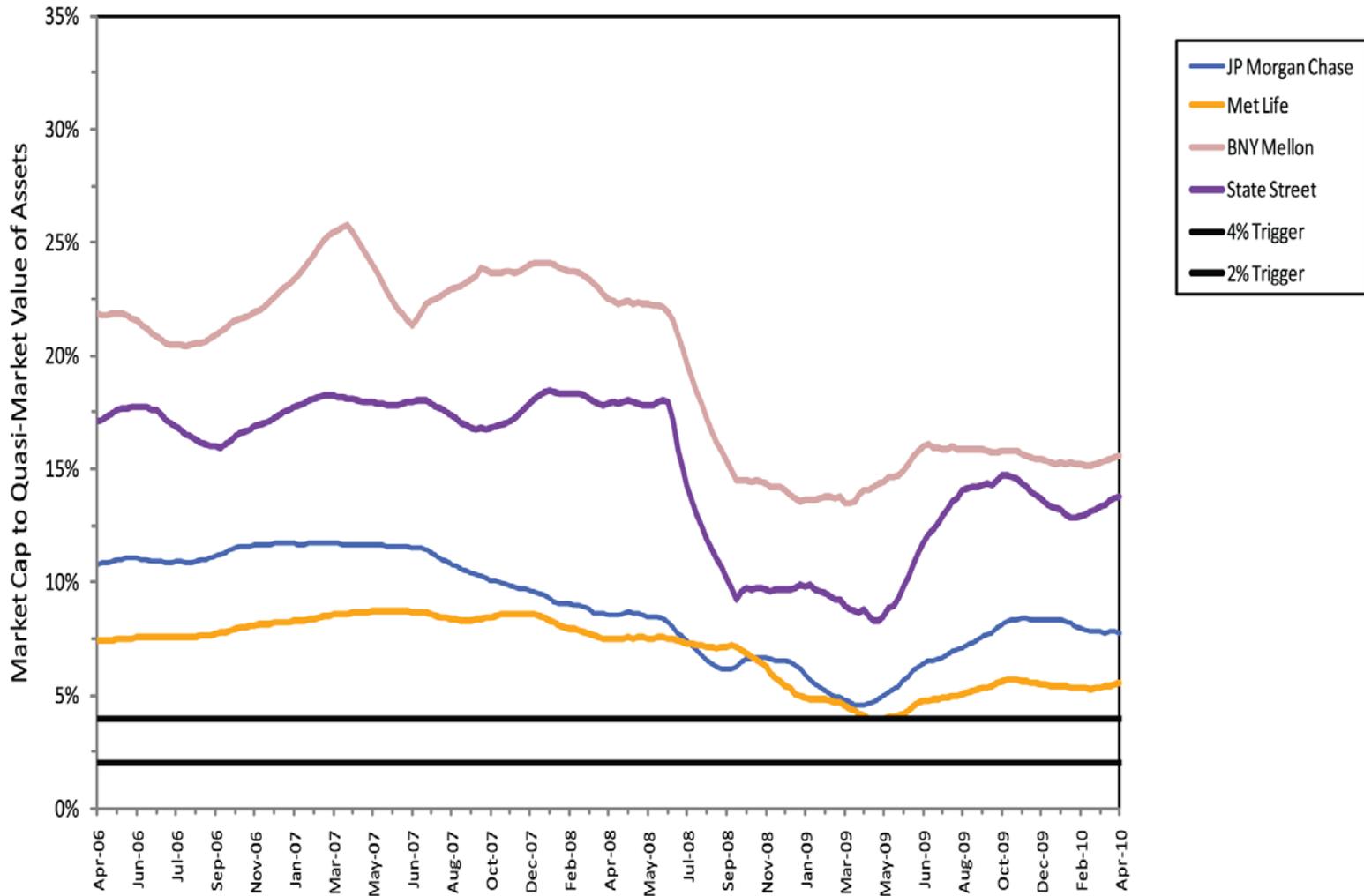
# 90 Day Rolling Market Cap to Quasi Market Value of Assets

U.S. SIFIs that Failed, Were Forced into Mergers or Received Major SCAP Infusions



# 90 Day Rolling Market Cap to Quasi-Market Value of Assets

For large American financial institutions that did not receive major subsidies



# Why Not Just More Equity?

- Equity alone is costlier than equity and CoCos
  - Adverse selection costs (lots of room for signalling costs even with regulation)
  - Agency costs
  - Taxes
  - Huge literature provides evidence of these costs (bank capital crunches associated with equity scarcity; Aiyar, Calomiris and Wieladek 2014, 2015)
- Pure equity is less effective
  - Book equity losses are not recognized timely (Citi's 11.8%)
  - Less incentive timely replacement of lost capital
  - Less incentive for risk management
- Why not just a market equity ratio requirement?
  - Less effective; third party contract cuts forbearance risk.

# Importance of Simplicity

- Avoiding discretion requires constructing simple rules that do not depend on regulators' or supervisors' discretion and can be observed publicly.
- Automatically enforced, transparent rules are incentive robust for regulators.