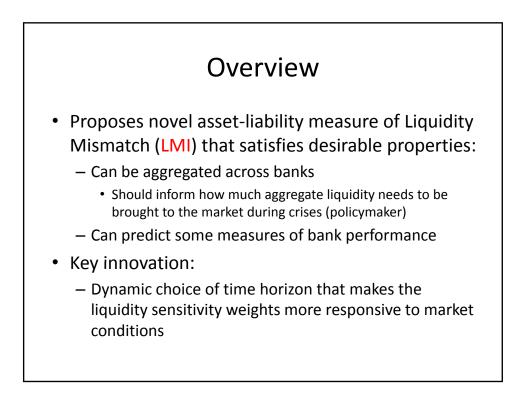


#### 1- "MEASURING LIQUIDITY MISMATCH IN THE BANKING SECTOR"

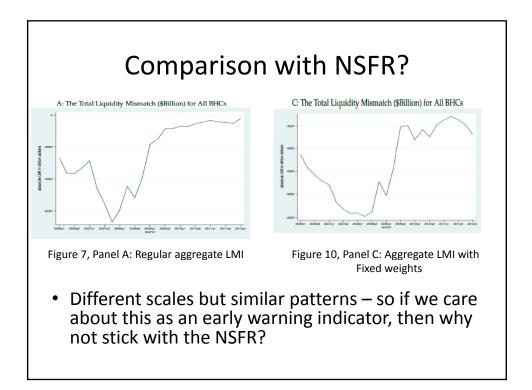


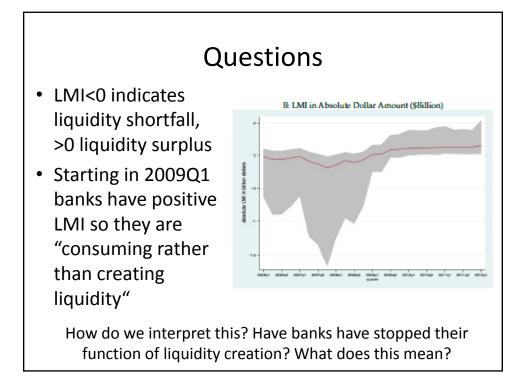


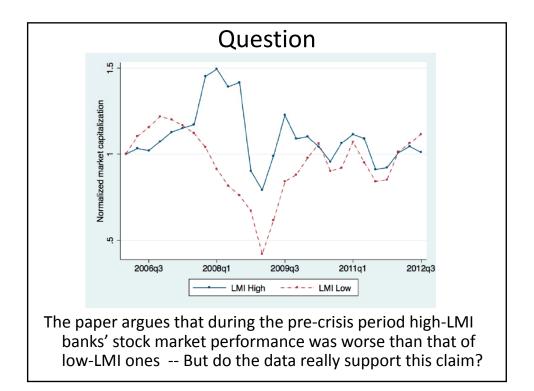
• How does this conceptually relate to the Basel III structural liquidity measures, esp. NSFR?

$$LMI_t^i = \sum_k \lambda_{t,A_k} x_{t,A_k}^i + \sum_{k'} \lambda_{t,L_{k'}} x_{t,L_{k'}}^i,$$

- One main difference:
  - Weights are time-varying
  - This delivers a measure that is very much like the NSFR but allows for different time horizons for liquidity recovery: long during crises, short during normal times.

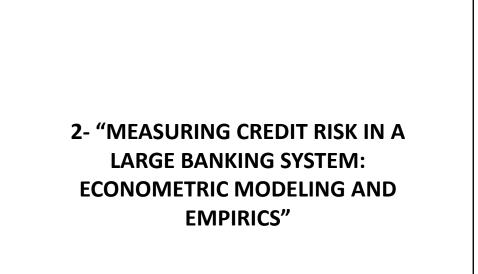






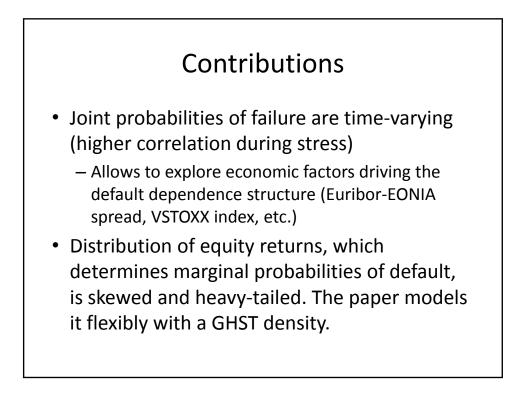
# **Small Questions**

- The scale used for assigning haircuts assets held for different purposes is ad-hoc
  - Accounting designation may not stop the bank from selling an asset during a liquidity shortfall
- Conclusions state that LCR and NSFR cannot be aggregated, but they can be...
  - NSFR is a ratio but can re-write it as a difference and add up the amounts: dollar NSFR shortage
  - BCBS (2011) published estimates of "global" shortfall in LSC and NSFR



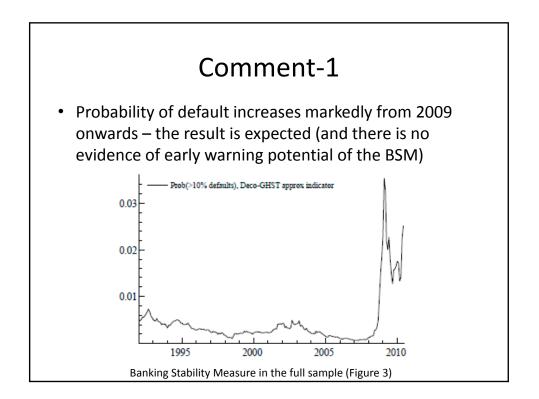
## Overview

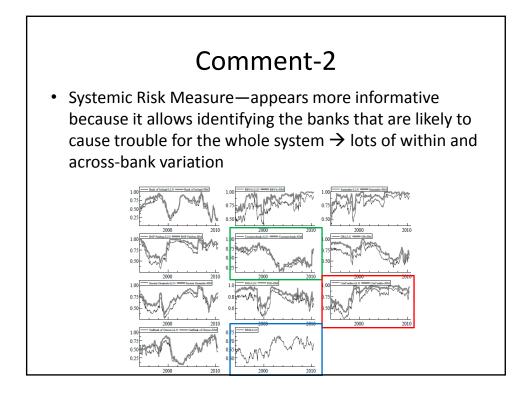
- Applies a refined econometric method for measuring systemic risk, and in particular, to compute conditional default probabilities
  - Banking Stability Measure (BSM)
    - Probability that at least X out of N banks jointly default
  - Systemic Risk Measure (SRM)
    - Probability that at least X out of N banks default given that bank *i* defaults

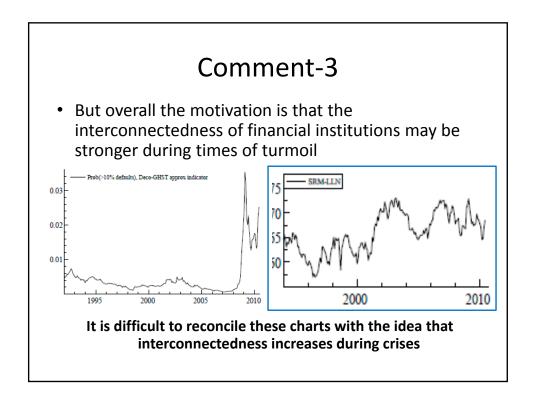




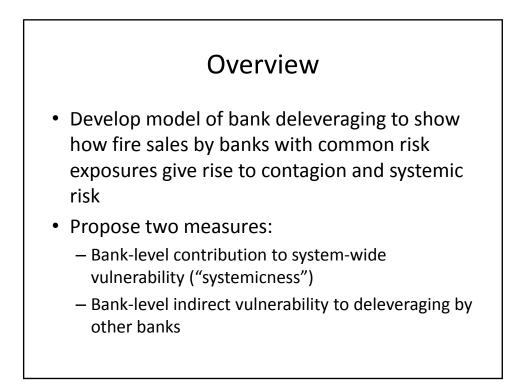
- The paper estimates two measures of systemic risk
  - They are essentially joint probabilities (of default)
  - Novelty?
- Need more motivation on
  - The measures (these are not new ways of thinking about systemic risk)
  - Why go the extra mile on methods? How do the results compare to, say, running the Merton model with a matrix of simple asset return correlations? (And one can make it time varying – What is the additional benefit?)







## **3- "VULNERABLE BANKS"**



# Assumptions

- Main assumptions of the model:
  - 1. Asset trading in response to bank return shocks
  - 2. Target exposures remain fixed in percentage terms
  - 3. Fire sales generate price impact (downward sloping demand function)

