

Monetary and Financial Architectures

Fiat Lux – Freshmen Seminar

Prof. Saki Bigio

Traditional Banking

What do banks do?

Borrower



Saver



Bank



Shadow Banking

Saver

MMF/SBD



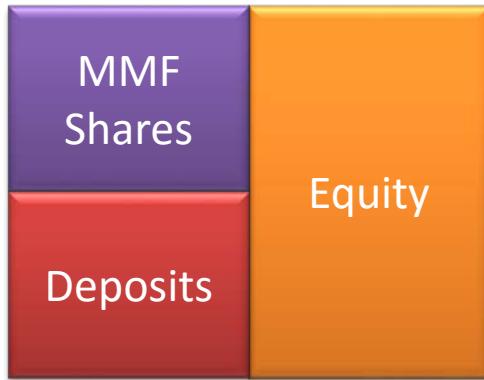
Bank

SIV/Conduit/SBD



Step #1: Creation of MMF

Saver



MMF/SBD



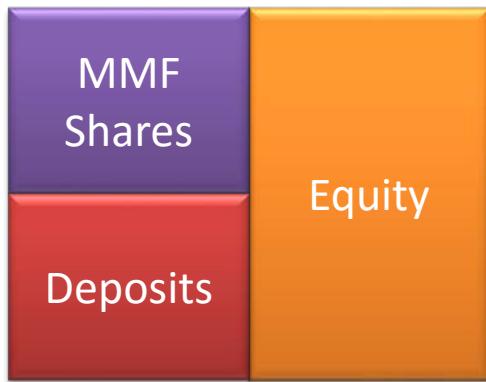
Bank



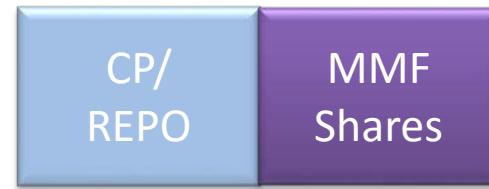
SIV/Conduit/SBD

Step #2: Creation of Off-Balance Sheet Institutions

Saver



MMF/SBD



Bank

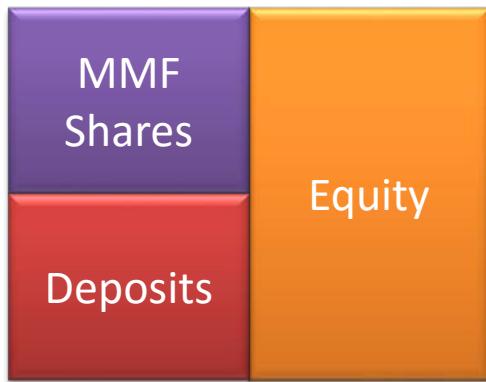


SIV/Conduit/SBD

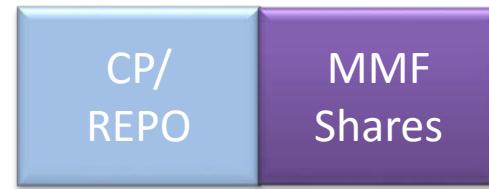


Step #3: Securitization

Saver



MMF/SBD



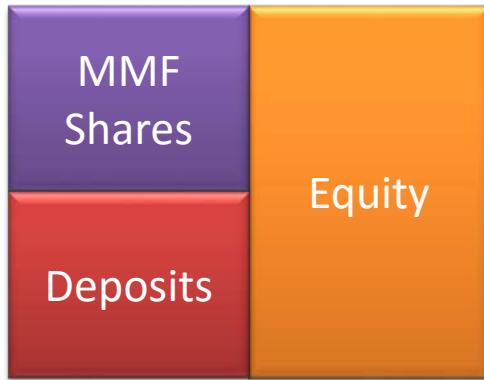
Bank



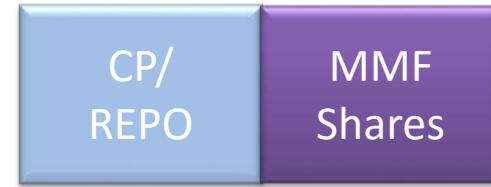
SIV/Conduit/SBD



Saver



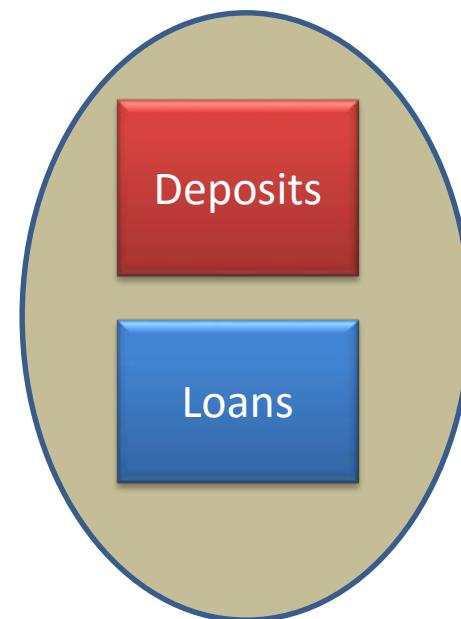
MMF/SBD



Bank



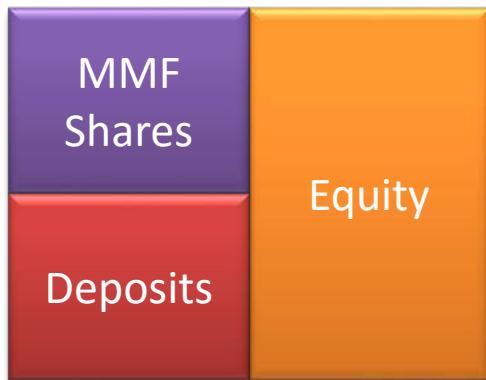
Packaging



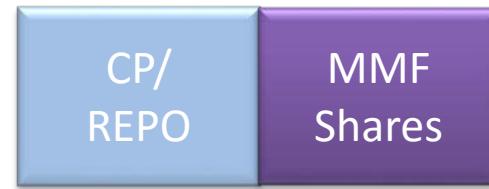
SIV/Conduit/SBD



Saver



MMF/SBD



Higher
Liquidity
Ratio

Bank



Lower
Leverage

SIV/Conduit/SBD



Problems

Borrower



Higher
Liquidity
Ratio

Bank



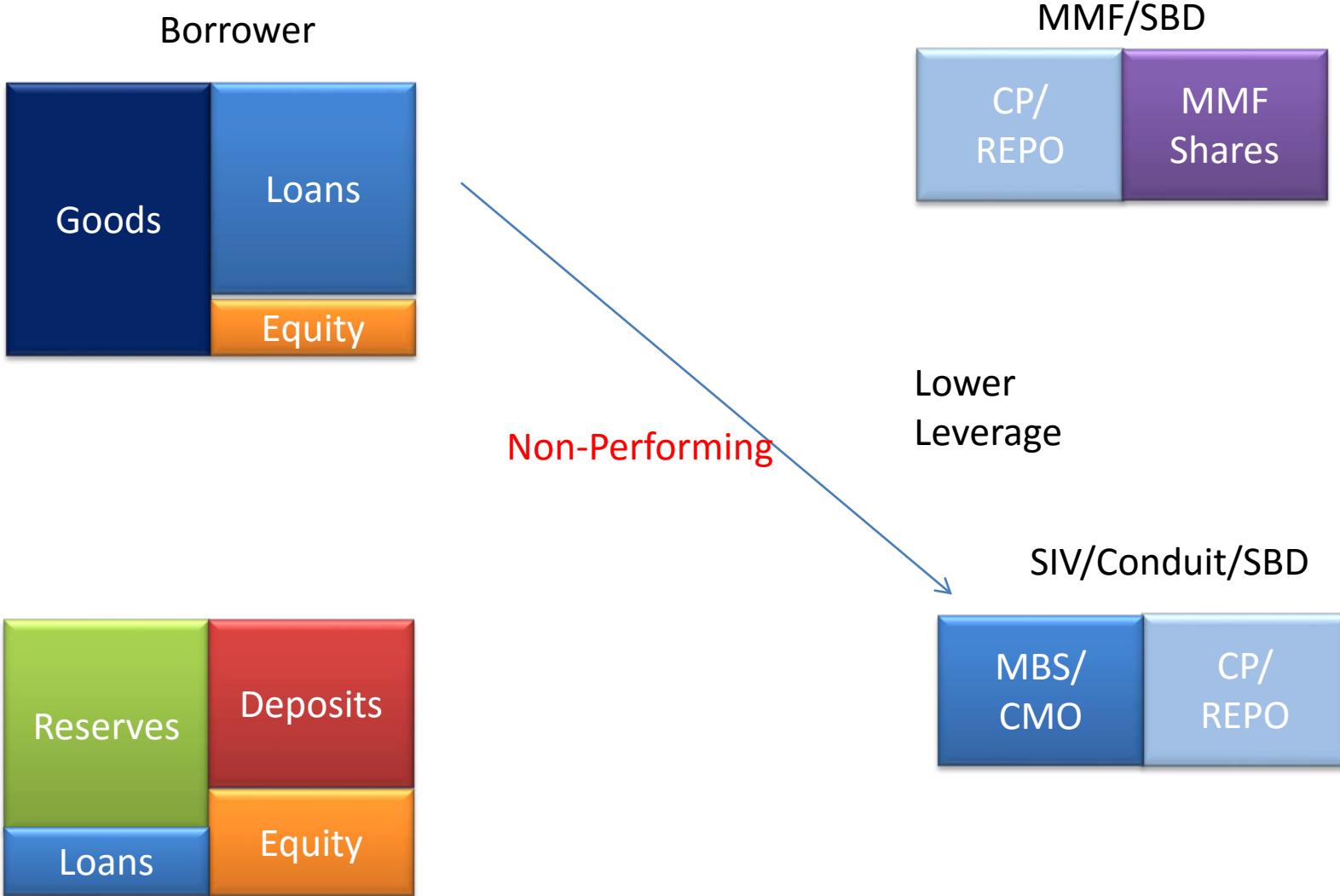
MMF/SBD



Lower
Leverage

SIV/Conduit/SBD





Borrower



MMF/SBD

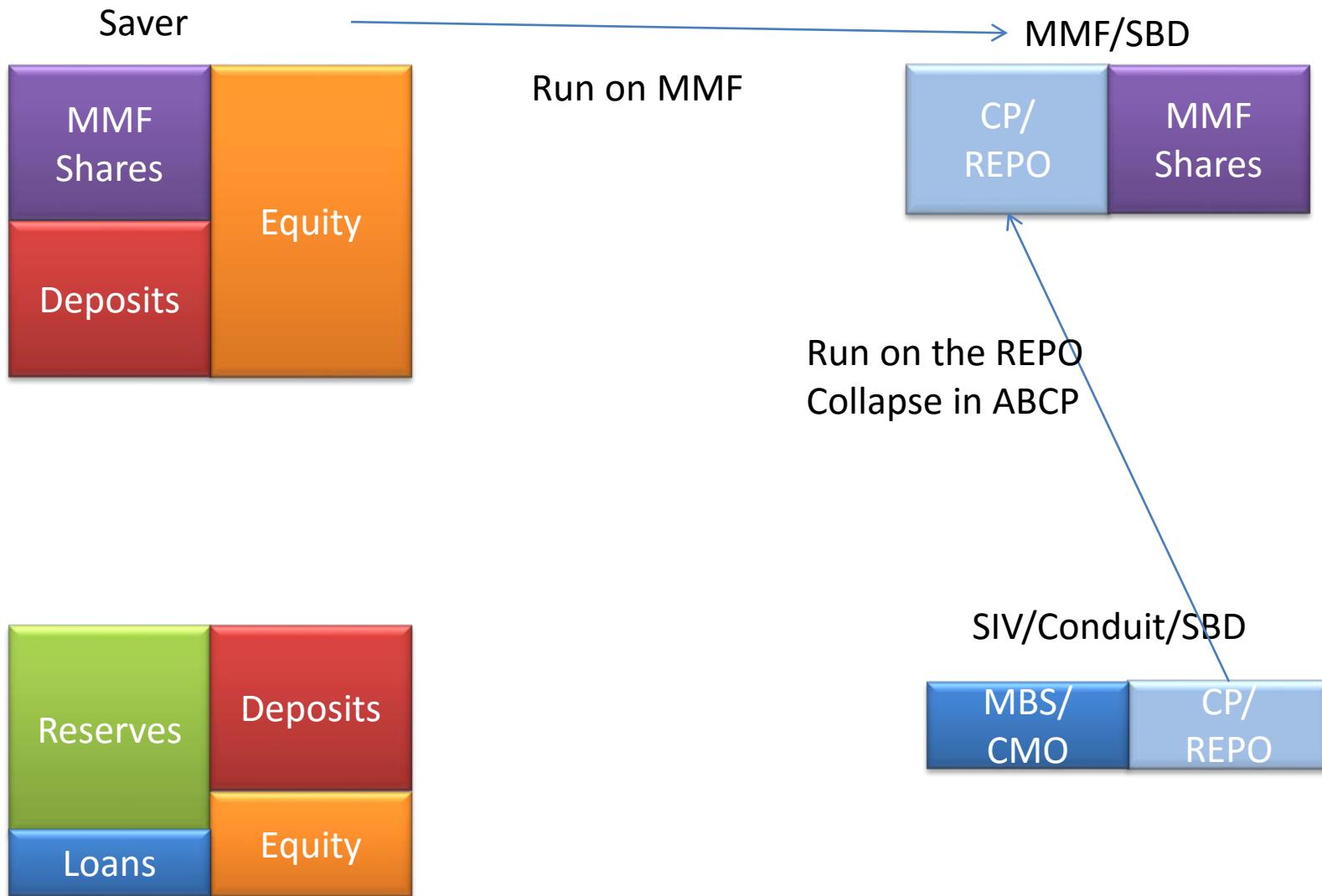


Run on the REPO
Collapse in ABCP

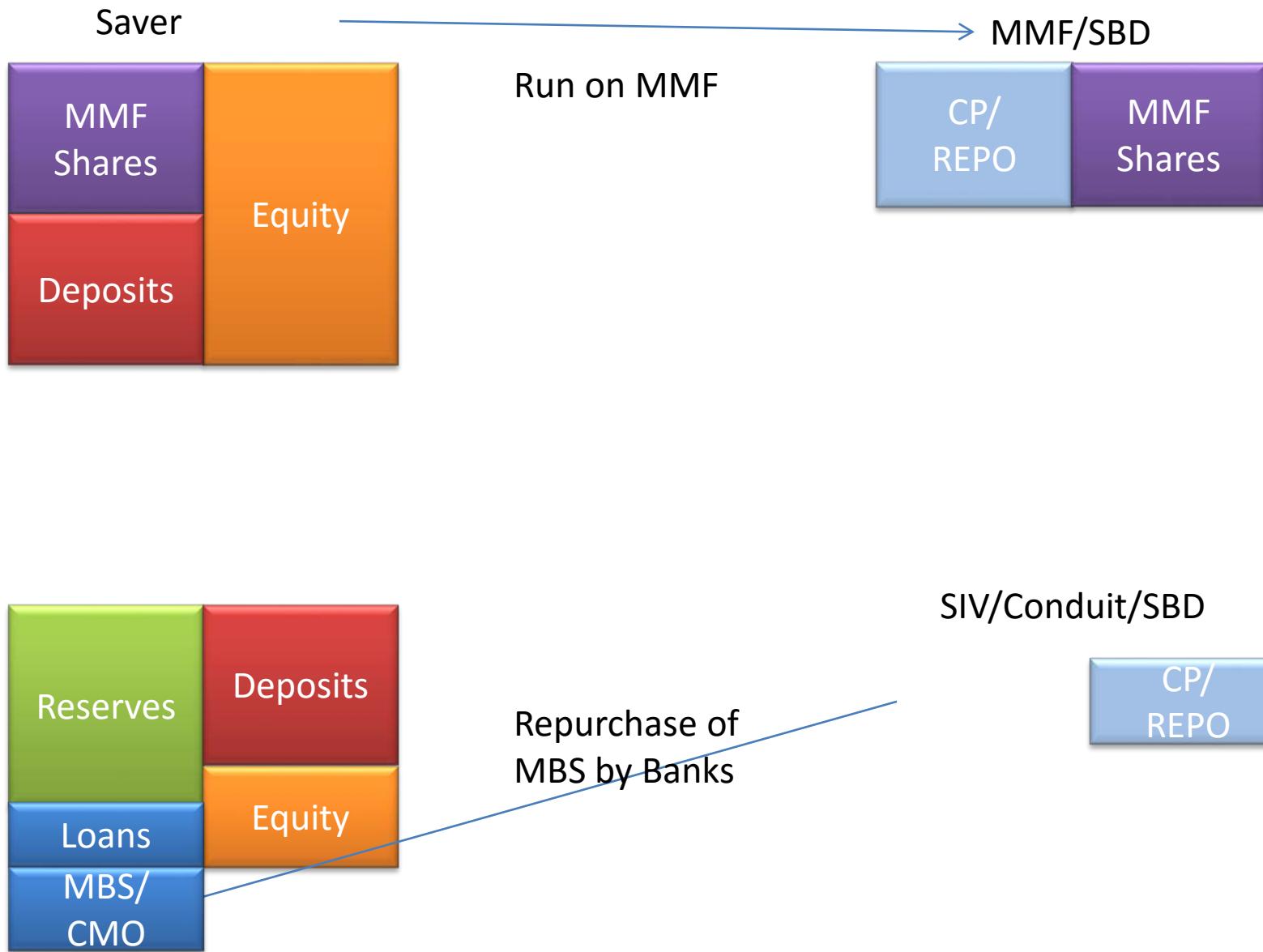


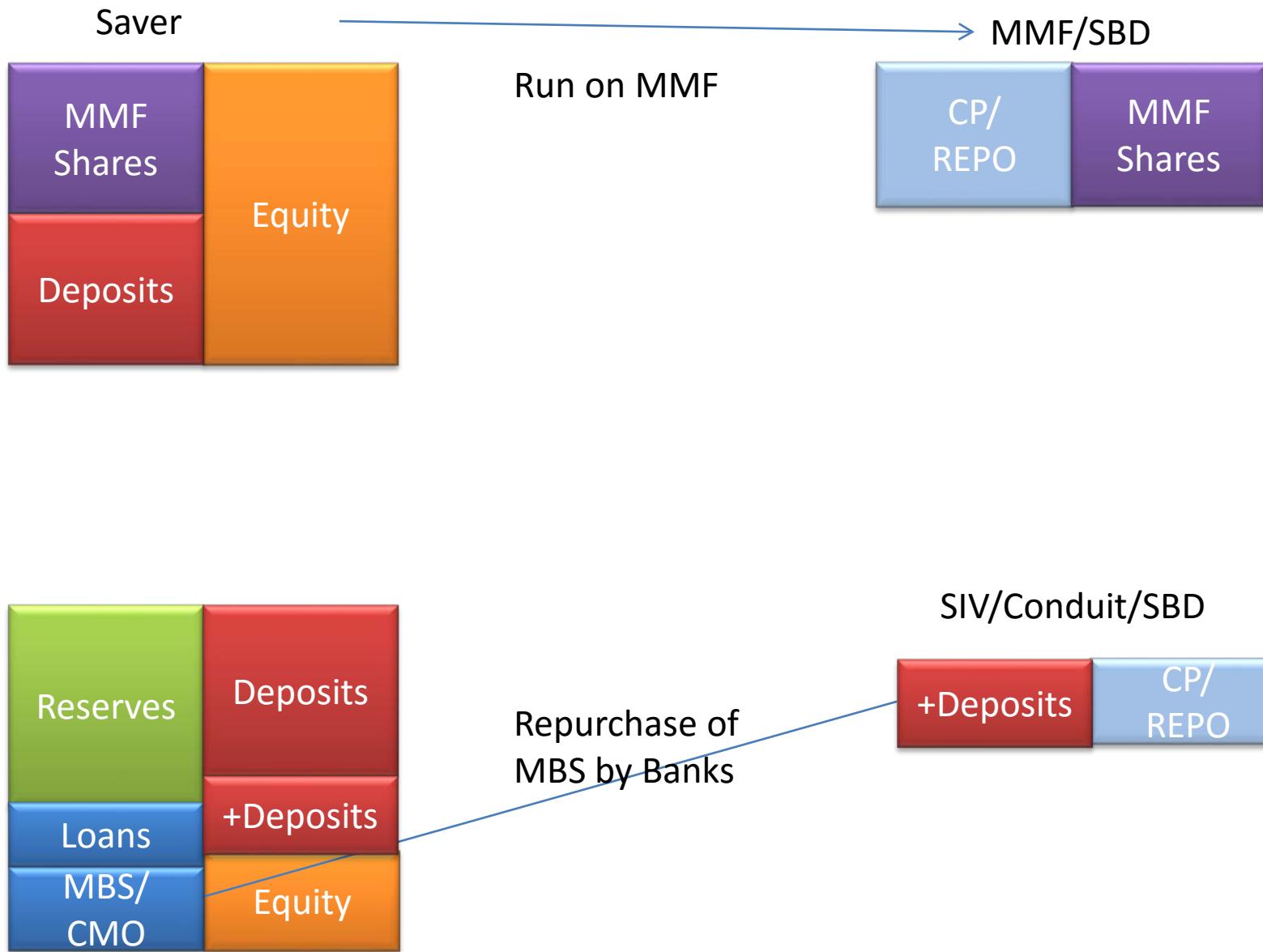
SIV/Conduit/SBD

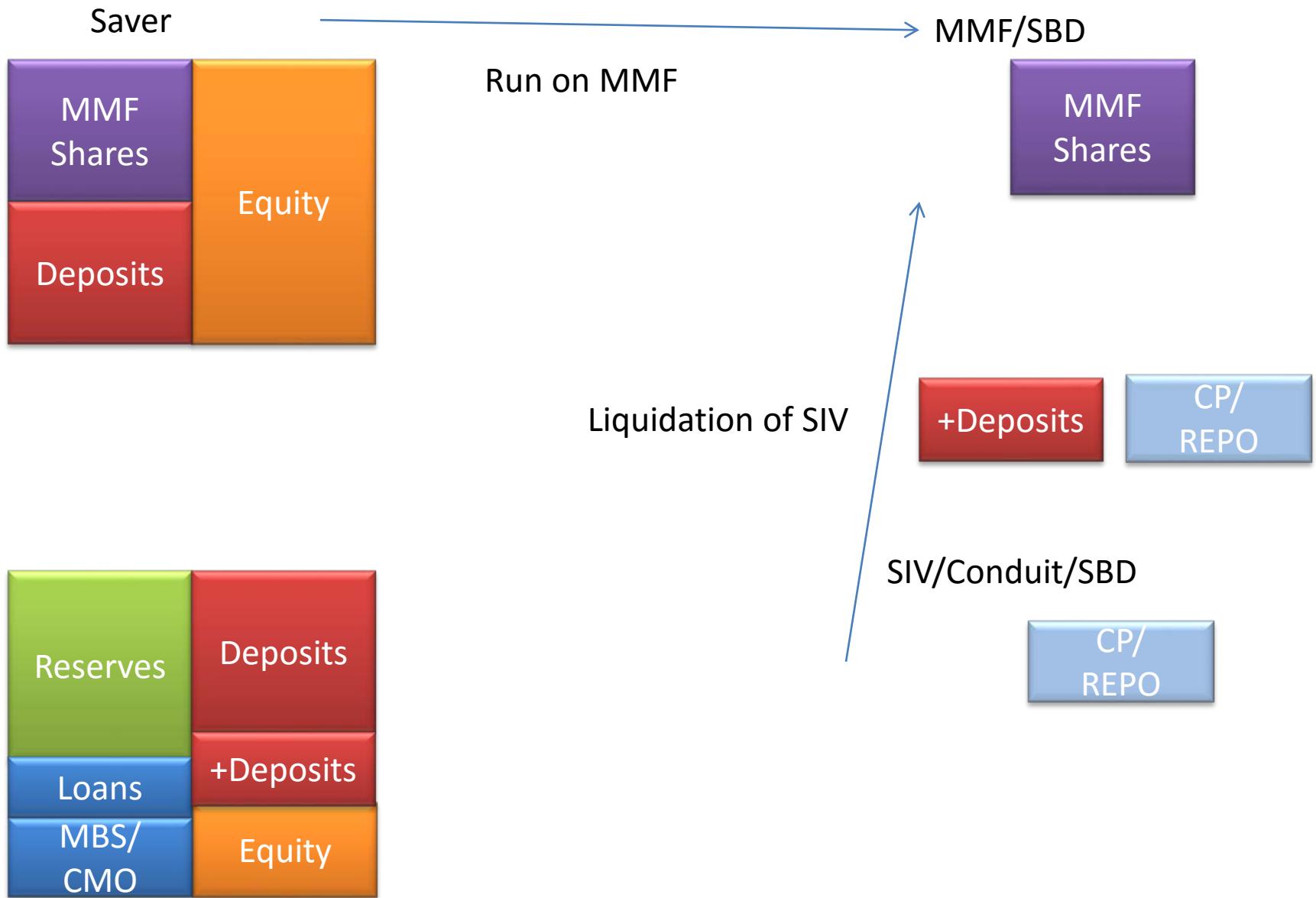




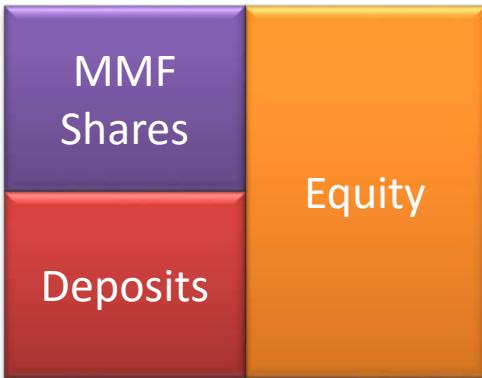
Step #4: Reversals







Saver



→ MMF/SBD

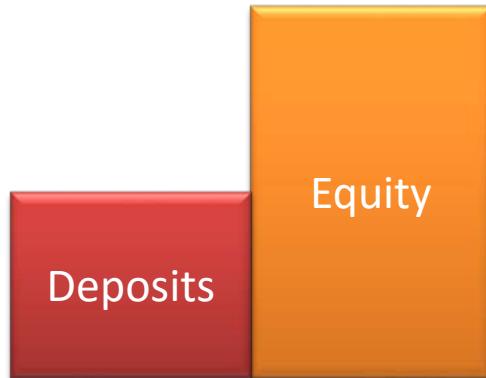
Run on MMF



SIV/Conduit/SBD

Saver

→ MMF/SBD



Liquidation of MMF

MMF
Shares

Deposits

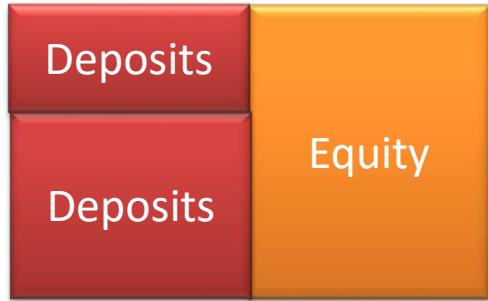
MMF
Shares



SIV/Conduit/SBD

Saver

MMF/SBD



Equity Losses



SIV/Conduit/SBD

Increase in Deposits

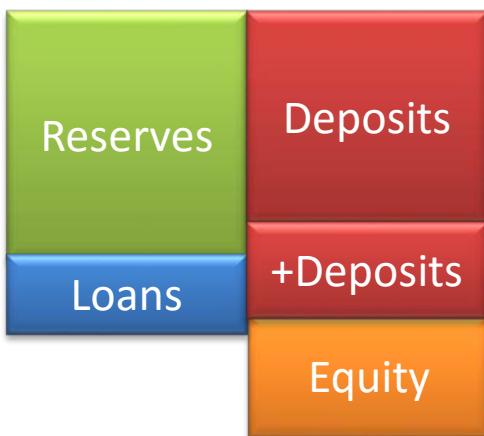
Step #5: FED

Saver

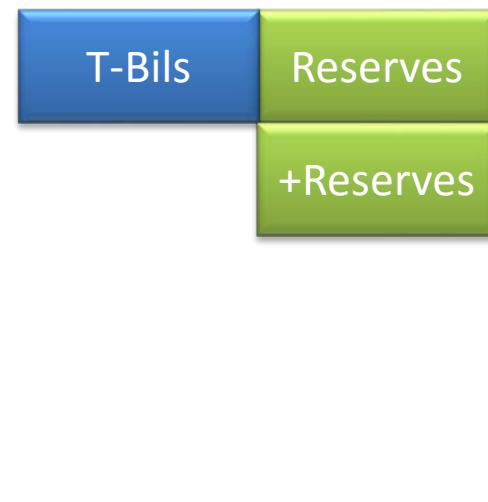


MMF/SBD

Equity Losses



FED



Increase in Deposits

Saver

MMF/SBD



FED Balance Sheet

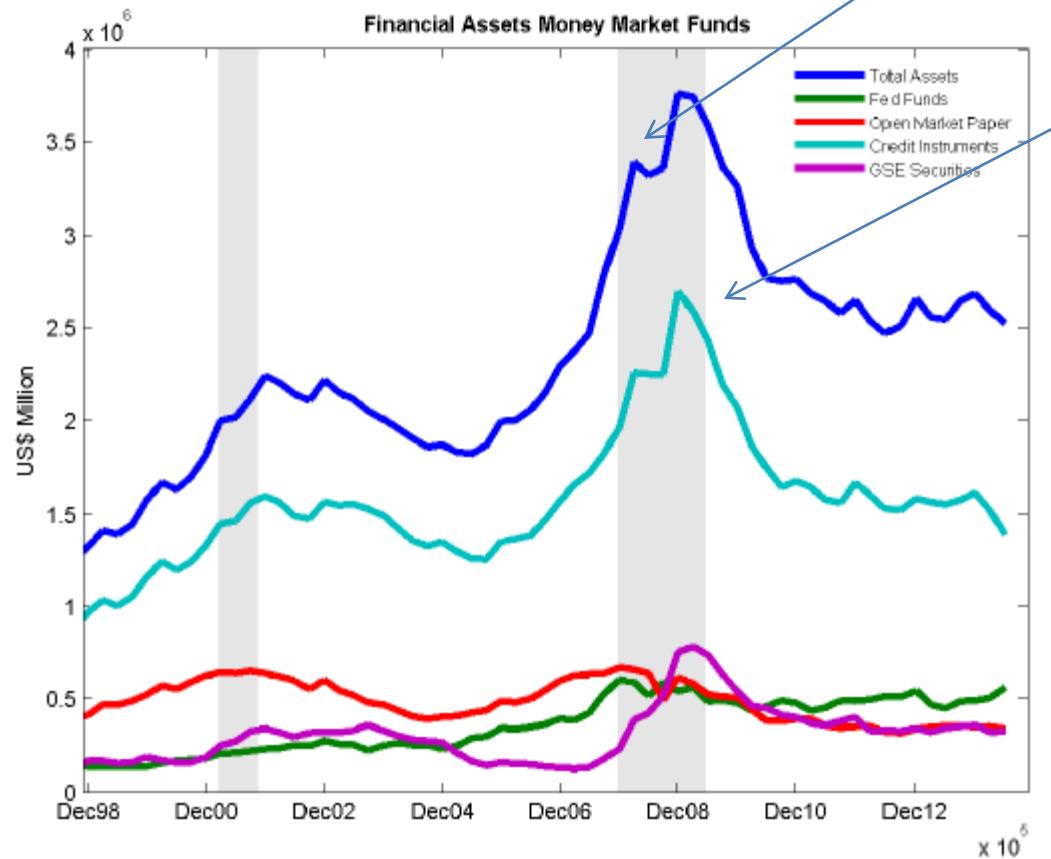
FED



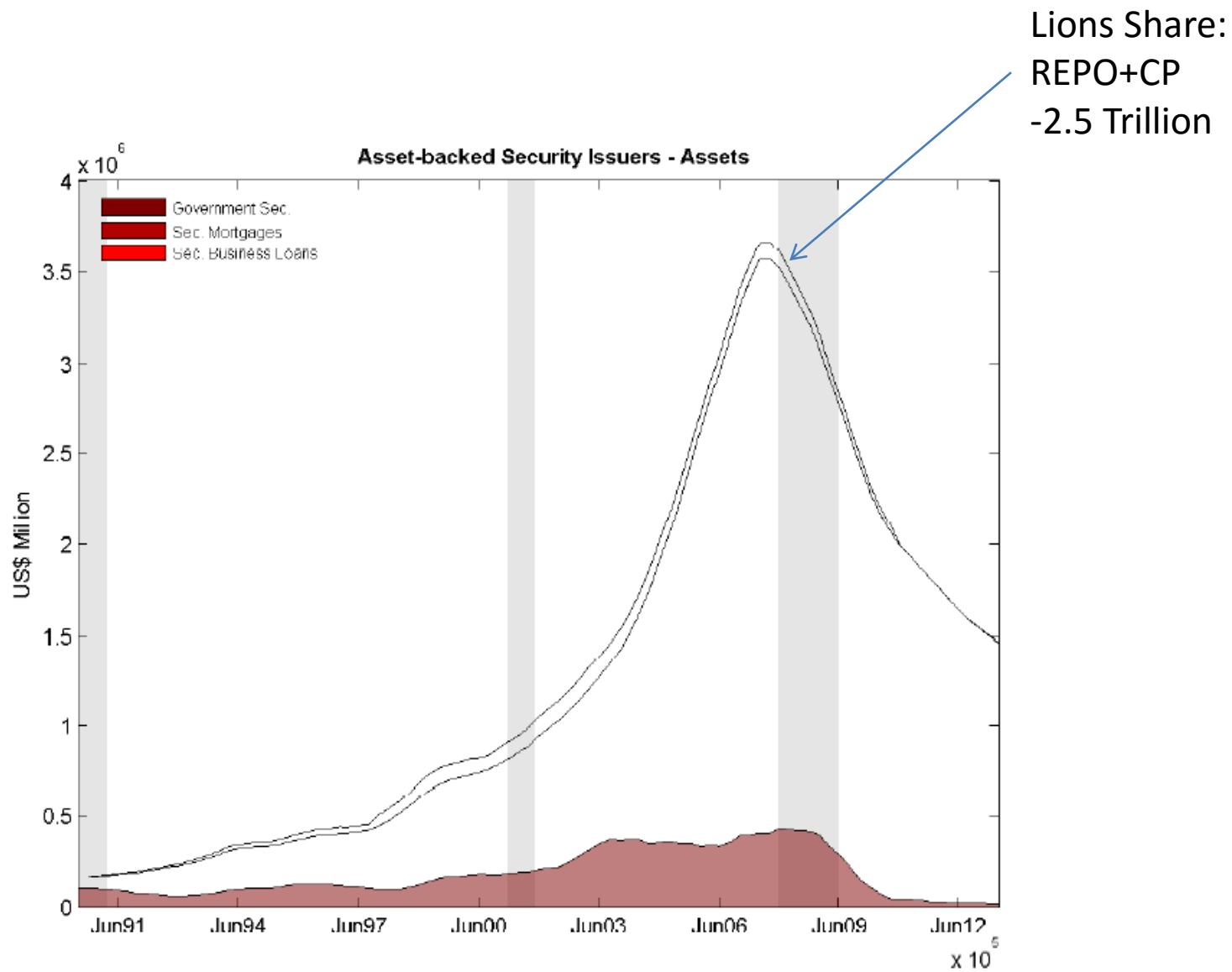
Money Market Fund Assets

Why? Mutual Funds
dumping? CP/REPO

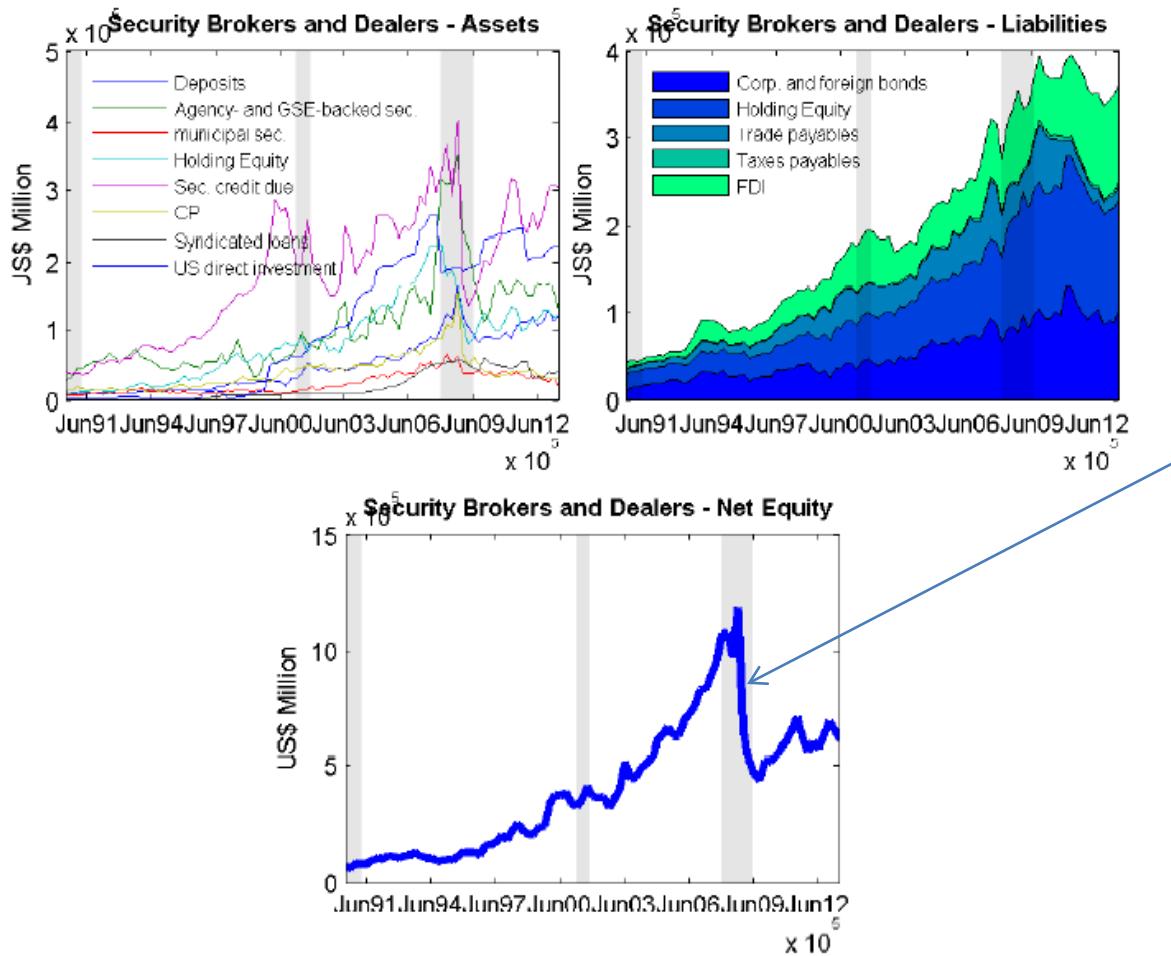
Lions Share:
REPO+CP
-1 Trillion



ABS - Issuers

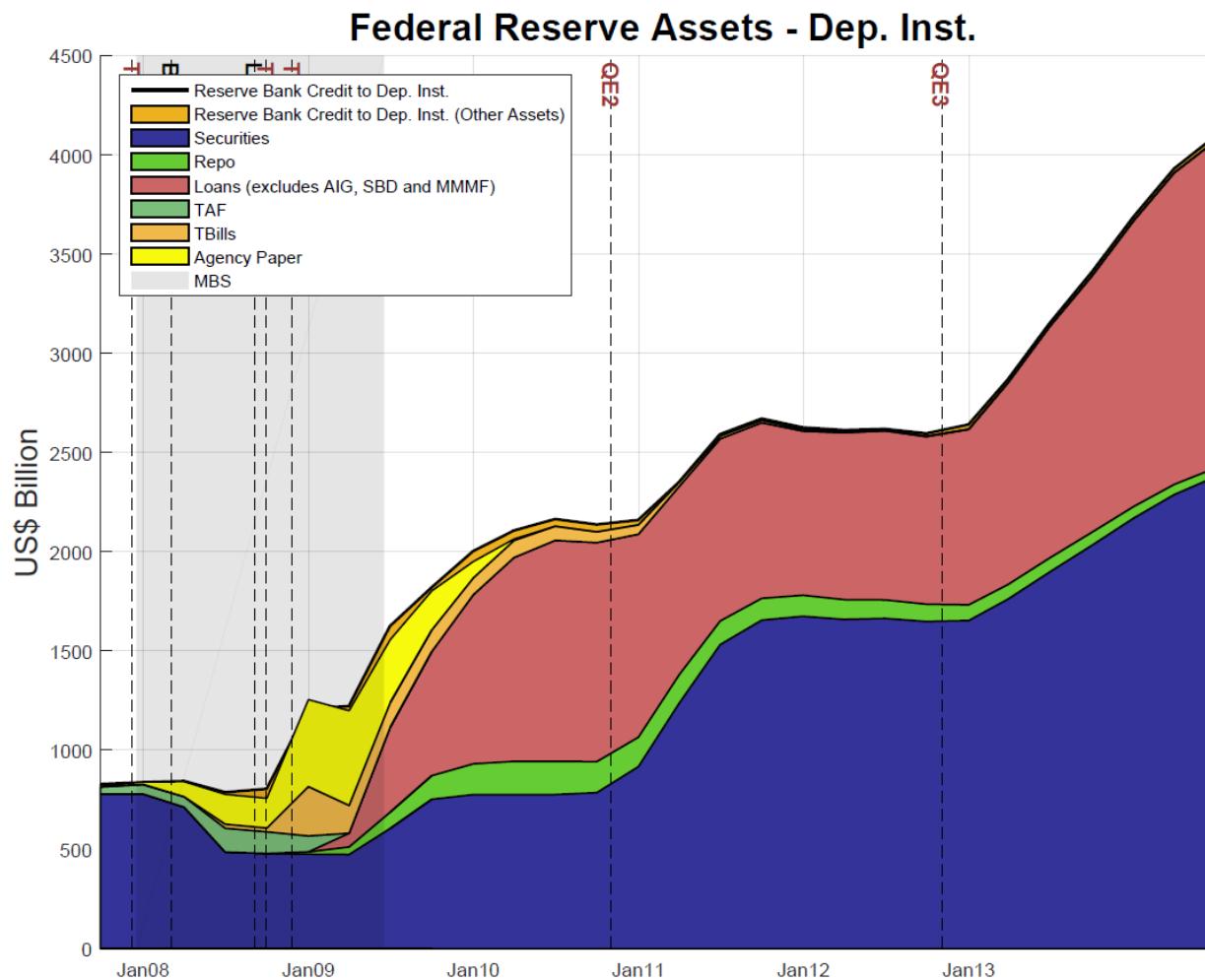


Security-Broker + Deales (Investment Banks (not done yet...))



Goldman
becoming
Bank

Federal Reserve Balance Sheet



Federal Reserve bought a lot of assets

