

# Monetary, Fiscal, and Financial Stability Policy Tools: Are We Equipped for the Next Recession?

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#### Introduction

- Much of my own research has focused on the ways that problems in the financial system can ripple through to the real economy
- ► Certainly the last financial crisis and the ensuing Great Recession and very slow recovery – underlined the role that financial instability can play in disrupting the economy and in slowing its recovery
- ► Emphasized the need for policy tools that can be deployed to attempt to *prevent* financial instability, as well as *minimize* the effects of instability when it does emerge

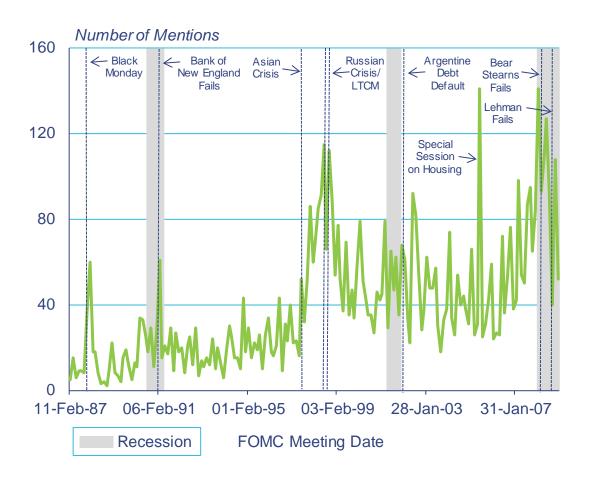


- Generally associated with regulatory and supervisory measures
- Often viewed as independent from the stance of monetary and fiscal policy
- ► I view financial stability tools more holistically
  - Integrally related to the ability to fully utilize fiscal and monetary tools to respond to adverse shocks
  - ► If other tools are limited (fiscal and monetary), need greater financial stability policy buffers



### Figure 1: Mentions of Financial Instability in FOMC Meetings and Periods of Instability

February 11, 1987 - December 15, 2008





#### Response to Adverse Shocks

- Prevention of financial stability problems is critically important but not the focus of my talk tonight
- ► Focus tonight is on tools that are available to policymakers once a significant adverse financial shock occurs (that is, crisis *response*)
  - ► Fiscal, monetary, and financial tools can all play a role in offsetting the economic fallout
  - ▶ If monetary and fiscal policy have limited capacity to respond to such shocks – then need greater buffers from financial stability tools



# Responses to Large Adverse Financial Shocks Require a Broad Set of Tools

- Fiscal tools cutting taxes and increasing government spending
- ► Monetary policy tools reducing interest rates and expanding the central bank's balance sheet
- Financial stability tools that provide sufficient buffers



### Calibration of Financial Stability Tools

- Normally calibrated to the severity of likely economic stresses
- But important to take into account, how equipped fiscal and monetary policy are to respond
  - ► If government-debt-to-GDP ratio is high limits the ability or willingness to use fiscal tools to offset financial and other shocks
  - ▶ If interest rates are already at or near the effective lower bound, and the country is unable or unwilling to use less-conventional monetary tools – limits capacity of monetary policy to respond

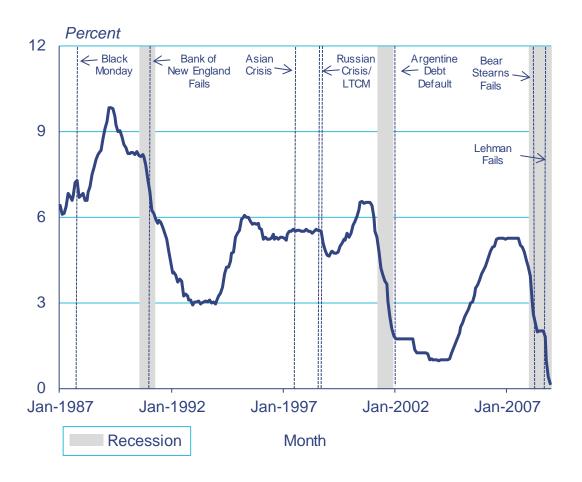


- ► U.S. has actually seen a reduction in the capacity of these so-called "buffers" across the policy tools
- ► There are implications if fiscal and monetary policy tools are likely to be limited
- Need to create greater capacity and flexibility within the tools currently available, including those most directly related to financial stability



Figure 2: Federal Funds Rate

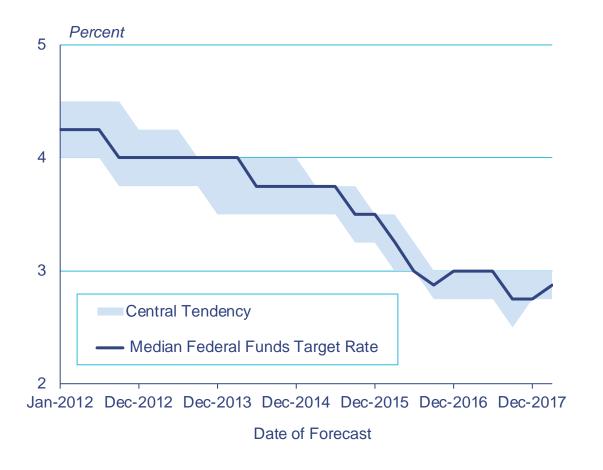
January 1987 - December 2008





# Figure 3: Forecasts for the Longer-Run Federal Funds Rate from the Summary of Economic Projections

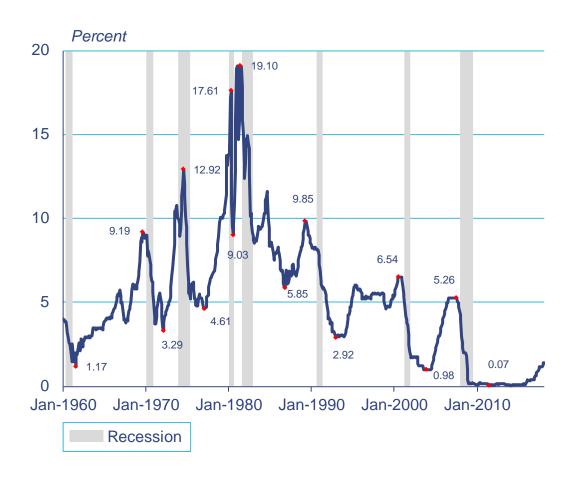
January 2012 - March 2018





# Figure 4: Federal Funds Rate, Noting Peaks and Troughs

January 1960 - February 2018





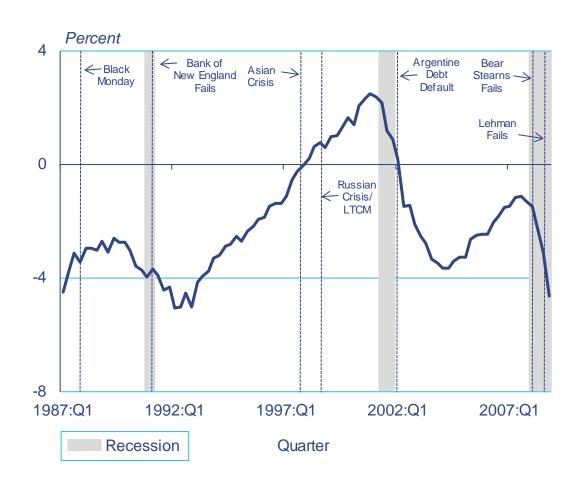
### **Alternative Monetary Policy Framework**

- ► Given low prevailing rates, could reduce likelihood of hitting effective lower bound, particularly if unconventional policy has limits
- Other monetary policy frameworks may reduce likelihood of hitting effective lower bound
- Alternatively, if monetary policy may be limited may want greater fiscal or financial stability buffers



## Figure 5: Federal Government Surplus or Deficit as a Percentage of GDP

1987:Q1 - 2008:Q4



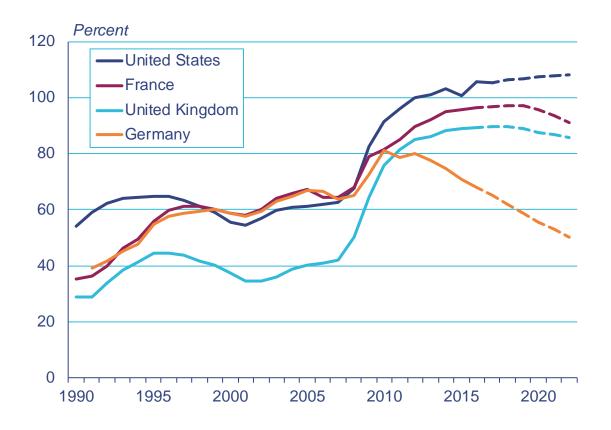
### Fiscal Limitations

- Impact the choices that policymakers have to utilize potential financial stability tools
- ► In the last crisis the U.S. provided direct capital infusions into the financial system
  - Arguably limited the severity of credit crunches
  - Promoted a quicker recovery in the financial sector in the U.S. relative to Europe
- Such actions require a fiscal buffer making it possible to finance the effort



## Figure 6: General Government Gross Debt as a Percentage of GDP

1990 - 2022



Note: Actual are through 2017 for the U.S. and 2016 for all other countries. CBO projections for the U.S. (2018 – 2022) do not include the recent tax changes and increases in the federal budget.



# European Challenges in the Last Recession

- Southern European countries experienced serious fiscal problems in addition to serious banking problems
- ► Those countries in Europe with less severe banking problems but substantial fiscal capacity, did not want to use their fiscal capacity to resolve banking problems in other European countries
- As a result, the banking problems could not be easily resolved with capital infusions
- Fiscal capacity problems caused difficulties in resolving financial stability problems, making both worse



# Financial Stability Tools in the U.S. are Limited

- ► The two primary financial stability tools available to the Federal Reserve
  - ► Altering the scenarios used in the bank stress tests that are applied to the largest banks
  - Setting of the countercyclical capital buffer
- Other countries have much larger set of tools and more flexibility to use them

# Bank Stress Tests

- The stress test is primarily a microprudential tool
  - Designed to ensure sufficient capital for banks in the event of a large financial shock
  - By "stressing" particular assets, the test alters the cost of capital for that asset class
- ► Firms' post-stress capital may decrease (or increase) relative to reported capital by varying magnitudes, depending on the mix of assets and hence the mix of risks



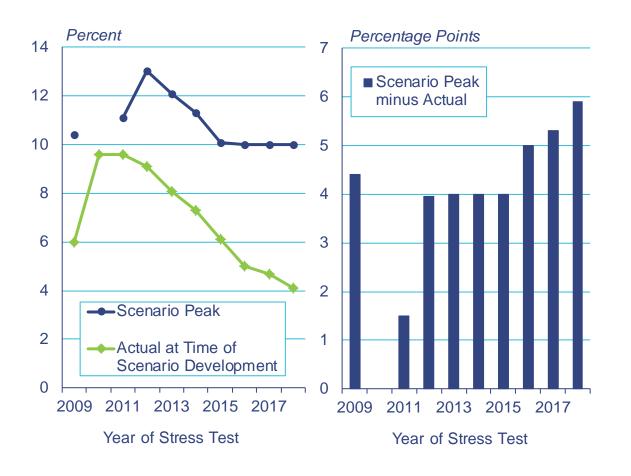
### Countercyclical Capital Buffer

- ► The countercyclical capital buffer is intended to be a macroprudential tool
- ► The buffer increases capital for all financial firms it applies to during periods of financial excess, but is intended to release capital during stressful periods
- Because it is not related to particular stress scenarios, it does not alter the cost of capital for specific assets



Figure 7: Unemployment Rates and Stress Tests: Actual and Severely Adverse Scenario Peak

2009 - 2018



Note: There was no stress test in 2010. Source: Federal Reserve Board



#### Stress Tests and Credit Availability

- Stress tests as currently utilized may not effectively release capital in a crisis
- Could encourage banks to reduce credit availability to shrink assets to satisfy binding capital constraints
- ► Examine the possibility of unintended consequences and assess whether stress tests may work at cross purposes to other tools designed to speed the recovery from a negative financial shock
- Other tools may be better designed to release capital to avoid reductions in credit availability



### Figure 8: Countercyclical Capital Buffers by Jurisdiction

June 2015 - January 2019

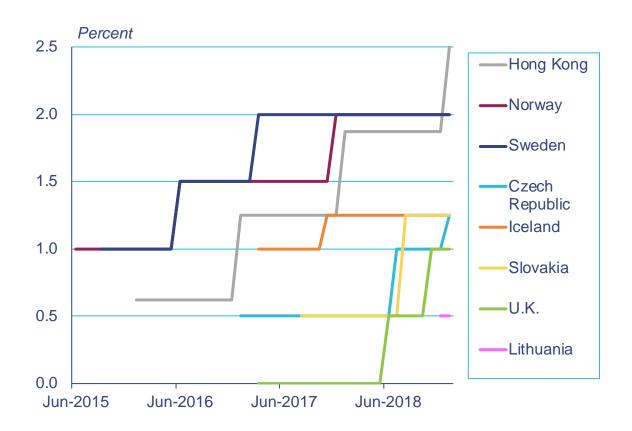
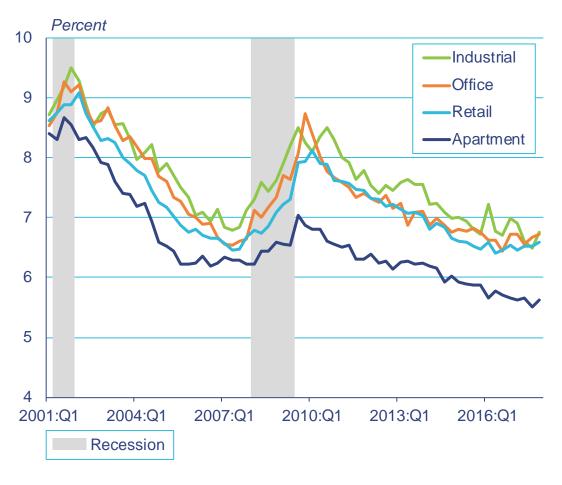




Figure 9: Capitalization Rates by Property Type

2001:Q1 - 2017:Q4

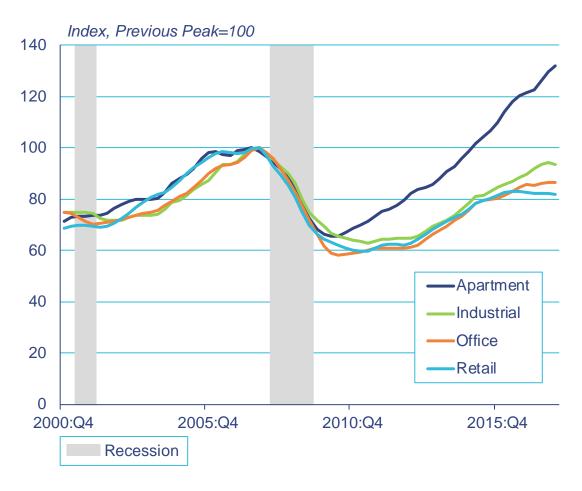


Note: The capitalization or "cap" rate is the ratio of net operating income produced by a property to the price paid, calculated at the time of a transaction. Based on properties of \$2.5 million or more.



# Figure 10: Real Commercial Property Price Indices by Property Type

2000:Q4 - 2017:Q4

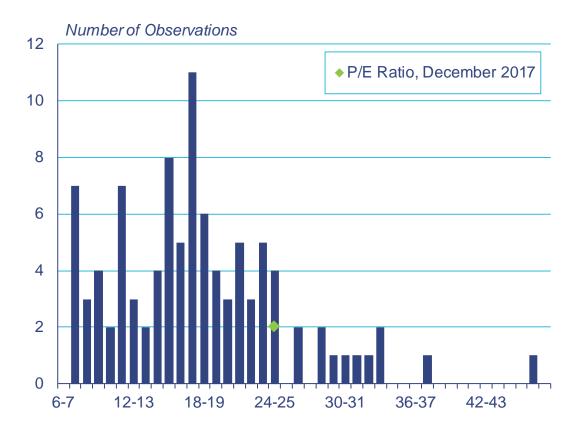


Note: Indices are adjusted for inflation using the GDP deflator. Indices are repeat-sales based and include properties of \$2.5 million or more.



Figure 11: Distribution of S&P 500 Composite Price to Earnings Ratios

June and December, 1968 - 2017

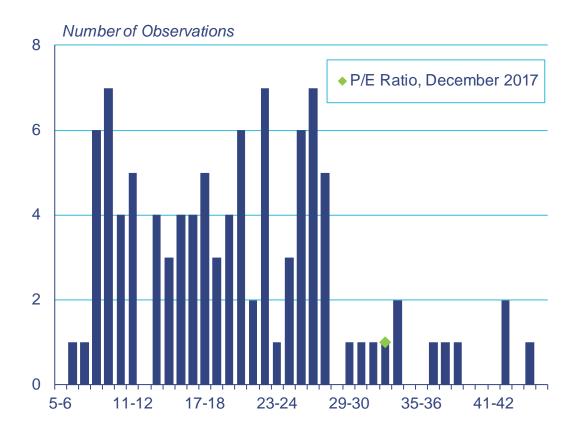


Note: Excludes 2 outliers -- Dec 2008 (60.7) and Jun 2009 (122.4)



# Figure 12: Distribution of Shiller Cyclically-Adjusted S&P 500 Composite Price to Earnings Ratios

June and December, 1968 - 2017





### **Concluding Observations**

- Now is the time to assess and strengthen the various policy tools − yet the tools have actually been diminishing
  - Monetary policy buffer has essentially been depleted as the nominal equilibrium interest rate has fallen
  - ► Government-debt-to-GDP ratio is high by historical standards in many countries, but we see that it is rising in the U.S., potentially constraining flexibility to respond to a shock
  - Countercyclical capital buffer, which was designed to be released in response to a large adverse financial shock, is currently set at zero



### Conclusion (continued)

- Many countries are not well equipped to address an adverse financial stability shock
- ► In the United States, one can see that monetary, fiscal, and macroprudential buffers are modest, and in many cases are being drawn down further
- Now should be the time that policymakers assess which tools could provide more potent buffers to draw upon should a large adverse financial shock occur