

# The Path Forward for U.S. Monetary Policy in a Global Context

**James Bullard** 

President and CEO

OMFIF City Lecture June 29, 2017 London, United Kingdom



### Introduction

### **Key themes in this talk**

- The U.S. economy remains in a low-growth, low-inflation, low-interest-rate regime.
- The current level of the U.S. policy rate is appropriate for this regime.
- The most likely outcome over the forecast horizon is that the regime persists and, hence, the current level of the policy rate remains appropriate.
- Many future developments could impact this policy path, but the Fed does not need to act pre-emptively with respect to any of them.

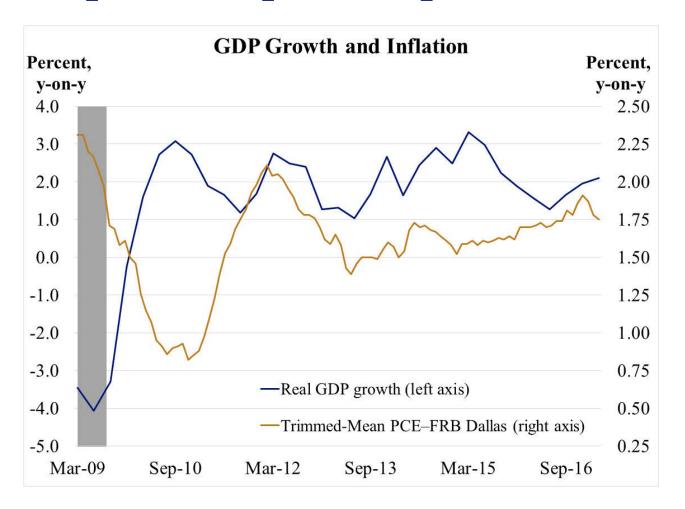
#### **Low Growth**

### U.S. real GDP growth in 2017

- The empirical impulse response since the financial crisis suggests that the U.S. has converged to 2 percent real GDP growth.
- The current estimate for U.S. real GDP growth in the first quarter of 2017 is 1.4 percent at an annual rate.\*
- Tracking estimates for second-quarter real GDP growth now suggest some improvement from the first quarter, but not enough to move the U.S. economy away from a regime characterized by 2 percent trend growth.
- The 2 percent growth regime appears to remain intact.

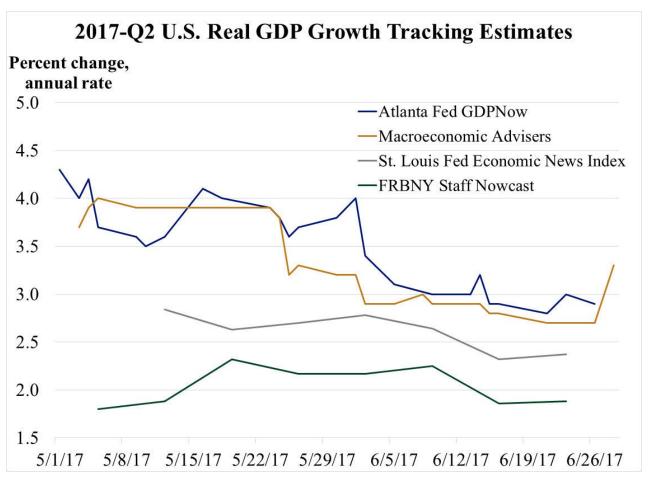
<sup>\*</sup> This is the Bureau of Economic Analysis' final estimate released on June 29.

#### The empirical impulse response



Source: Bureau of Economic Analysis and FRB of Dallas. Last observation: 2017-Q1 (final estimate) and April 2017. The shaded area indicates NBER recession.

### Forecasts for 2017-Q2 growth have declined



Source: FRB of Atlanta, FRB of New York, FRB of St. Louis, Macroeconomic Advisers. Last observation: See table on p. 8.

### Tracking estimates for 2017-Q2 U.S. real GDP growth and H1 average

Source	Date	Estimate*	2017-H1 <sup>†</sup>
Blue Chip Consensus	June 10	3.0%	2.2%
St. Louis Fed Economic News Index	June 23	2.4%	1.9%
FRBNY Staff Nowcast	June 23	1.9%	1.7%
Atlanta Fed GDPNow	June 26	2.9%	2.2%
Macroeconomic Advisers	June 28	3.3%	2.4%
CNBC Moody's Consensus (median)	June 28	2.9%	2.2%

<sup>\*</sup> percent change from the previous quarter, annualized

<sup>†</sup> average of Bureau of Economic Analysis' 2017-Q1 final estimate (1.4%) and 2017-Q2 estimates

#### **Low Inflation**

#### U.S. inflation in 2017

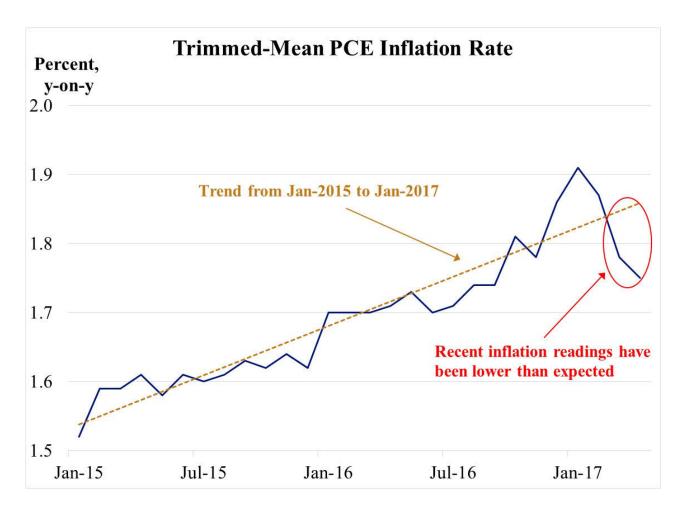
- The FOMC's inflation target is 2 percent.
- The U.S. inflation rate has been below the inflation target since 2012.
- Recent inflation data have surprised to the downside and call into question the idea that U.S. inflation is reliably returning toward target.

### Inflation readings are lower

Inflation measure	<b>Dec-2016</b>	Last obs.	Difference
Sticky CPI (FRB of Atlanta)	258	214	-44
Median CPI (FRB of Cleveland)	250	228	-22
Core CPI	220	170	-50
Trimmed-mean PCE (FRB of Dallas)	186	175	-11
Core PCE	175	154	-21

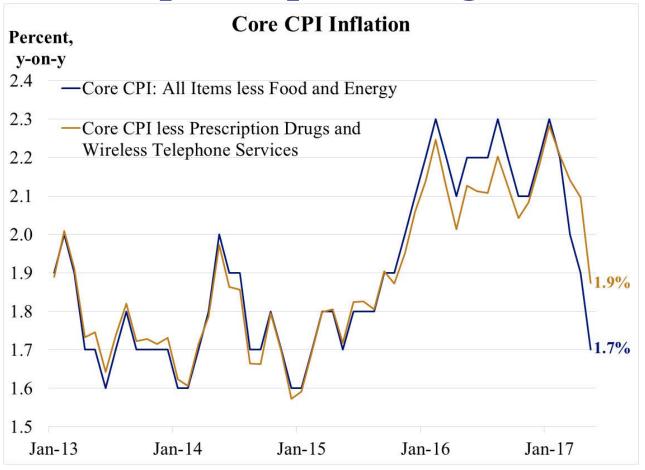
Values are expressed in basis points. Inflation rates are measured as percent changes from one year earlier. Source: Bureau of Labor Statistics, FRB of Cleveland, FRB of Atlanta, Bureau of Economic Analysis, FRB of Dallas and author's calculations. Last observations: April 2017 (PCE) and May 2017 (CPI).

#### **Trimmed-mean PCE inflation lower**



Source: FRB of Dallas and author's calculations. Last observations: April 2017.

### Effect of declines in the price of cell services and prescription drugs



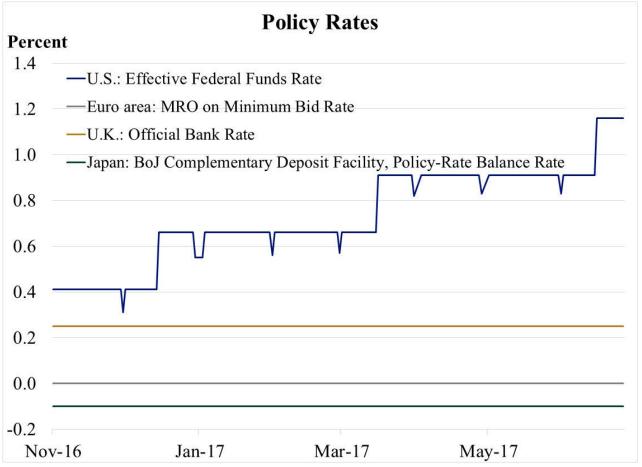
Source: Bureau of Labor Statistics and author's calculations. Last observation: May 2017.

#### **Low Interest Rates**

### Monetary policy normalization

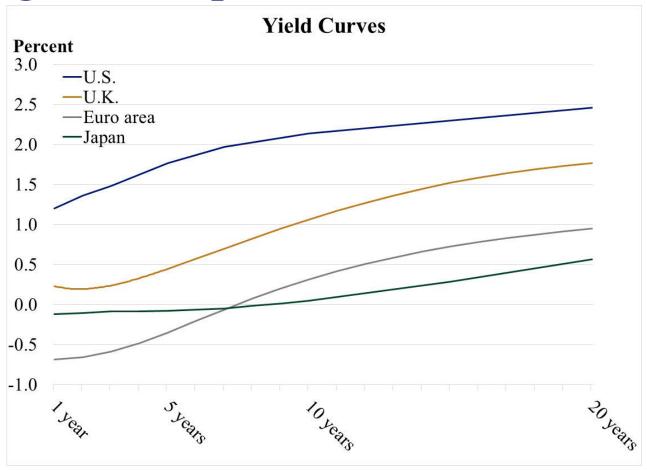
- U.S. monetary policy has been normalizing by increasing the policy rate, but against the backdrop of:
  - o relatively weak U.S. real GDP growth,
  - o downside U.S. inflation surprises and
  - o a global regime of low policy rates.
- The financial market reaction has been reflected in:
  - o a lower U.S. 10-year Treasury yield,
  - o lower market-based U.S. inflation expectations and
  - o an implied policy rate path closer to the St. Louis Fed path for 2017 and 2018 of 113 basis points.

### U.S. policy rate is rising while other key policy rates remain low and fixed



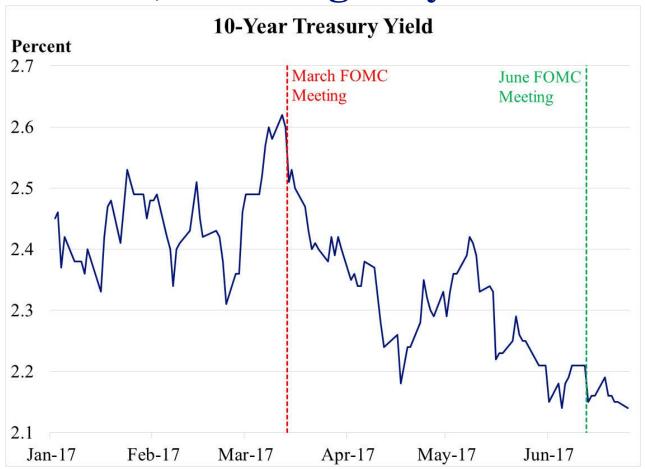
Source: Federal Reserve Board, European Central Bank, Bank of England and Bank of Japan. Last observation: June 26, 2017.

### The U.S. Treasury yield curve is above foreign counterparts



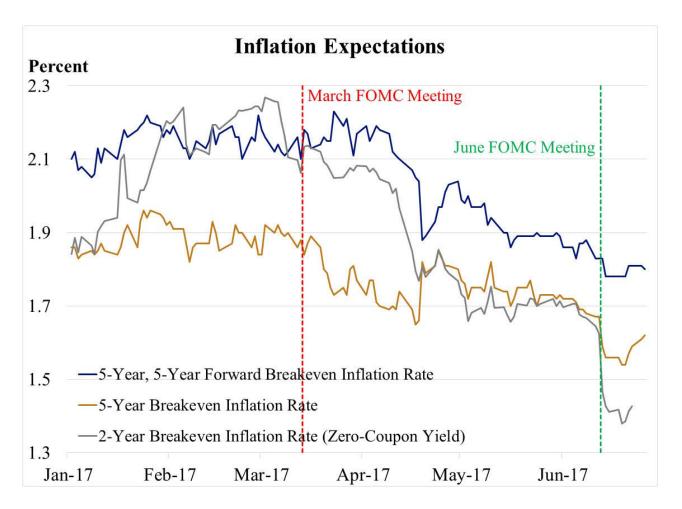
Source: U.S. Department of the Treasury, Bank of England, European Central Bank and Japan's Ministry of Finance. Last observation: June 26, 2017.

### Longer-term U.S. yields have declined since March, flattening the yield curve



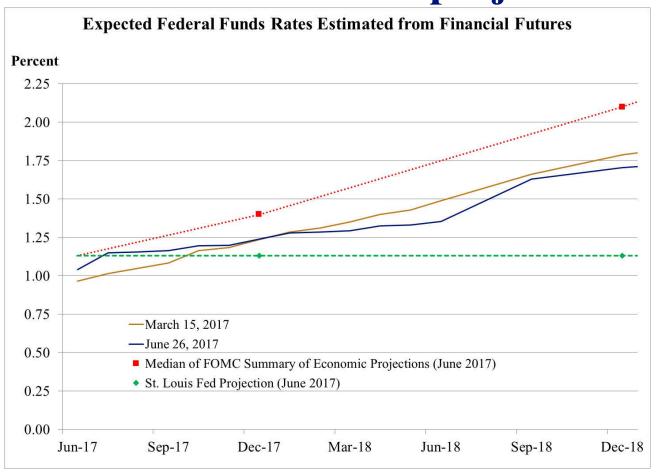
Source: Federal Reserve Board. Last observation: June 26, 2017.

#### Inflation breakevens have weakened



Source: Federal Reserve Board. Last observation: June 27, 2017.

### Market expectations of the policy rate path remain below FOMC projections



Source: Bloomberg and author's calculations. Last observation: June 26, 2017.

### **Additional Developments**

### Remarks on additional developments

- I want to now focus on a few additional developments concerning the U.S. macroeconomic outlook:
  - o **Unemployment** in the U.S. is relatively low and may head lower—how will this affect the U.S. inflation outlook?
  - o The **U.S. fiscal situation** may be altered by pending legislation—how will this affect the U.S. macroeconomic outlook?
  - o The **global growth outlook** has brightened—how will this affect the U.S. macroeconomic outlook?
  - U.S. financial conditions are easier than they were at the time of the December 2016 FOMC meeting—how should we interpret this?

## Does the Low U.S. Unemployment Rate Signal a Meaningful Rise in Inflation?

#### **Unemployment is low**

- The U.S. unemployment rate declined to 4.3 percent in the May reading.
- Does this mean that U.S. inflation is about to increase substantially?
- The short answer is no.

### The estimated influence of unemployment on inflation

- Let's consider one study, Blanchard (2016), which estimates a Phillips curve relationship for the U.S.\*
- Let's suppose the unemployment rate continued to fall from current levels.
- How much would the inflation rate increase according to these estimates?

<sup>\*</sup> See O. Blanchard, 2016, "The U.S. Phillips Curve: Back to the 60s?" Peterson Institute for International Economics, Policy Brief No. PB16-1.

### The estimated influence of unemployment on inflation

If the unemployment rate was	The predicted core PCE inflation rate would be
4.3% *	1.5% *
4.0%	1.6%
3.5%	1.7%
3.0%	1.8%
2.5%	1.9%

<sup>\*</sup> current value (May 2017 for unemployment, April 2017 for inflation)

• Bottom line: Even if the U.S. unemployment rate declines substantially further, current estimates suggest the effects on U.S. inflation are likely to be small.

### Low unemployment coexists with low inflation in many countries

	Unemployment rate	Price inflation	Core price inflation	Wage inflation
U.S.	4.3%	1.9%	1.7%	2.5%
Germany	3.9%	1.4%	1.1%	1.1%
U.K.	4.6%	2.7%	2.5%	2.1%
Japan	2.8%	0.4%	0.0%	0.4%

Inflation rates are year-over-year percentage changes.

Sources: Bureau of Labor Statistics, Eurostat, Office for National Statistics, Statistics Japan and Ministry of Health, Labour and Welfare. Last observations: various.

# Impact of New U.S. Fiscal and Regulatory Policies

### The prospect of higher growth

- Will the new fiscal and regulatory policies move the U.S. into a higher-growth regime? The Fed can wait and see.
- Here are two considerations:
  - The economy is not in recession today, so fiscal policies should not be viewed as countercyclical measures. They should be viewed as supply-side improvements.
  - U.S. productivity growth is low and could be improved considerably.
    - Deregulation could improve productivity growth.
    - Infrastructure spending could improve productivity growth.
    - Tax reform could improve productivity growth.

#### **Global Growth**

### The impact of better global growth prospects on the U.S. economy

- The global growth outlook has improved since last year.
- The International Monetary Fund (IMF) upgraded its world economic outlook for 2017 this spring.
- Key upgrades occurred for Japan, Europe and China.
- Nevertheless, these upgrades are too small and too uncertain to have a meaningful impact on U.S. macroeconomic performance.

### Global growth: Forecasts for 2017 have improved since last fall

2017 Real GDP Growth	Apr-2017	Oct-2016	Difference
World Output	3.5%	3.4%	0.1
U.S.	2.3%	2.2%	0.1
Euro area	1.7%	1.5%	0.2
U.K.	2.0%	1.1%	0.9
Japan	1.2%	0.6%	0.6
China	6.6%	6.2%	0.4

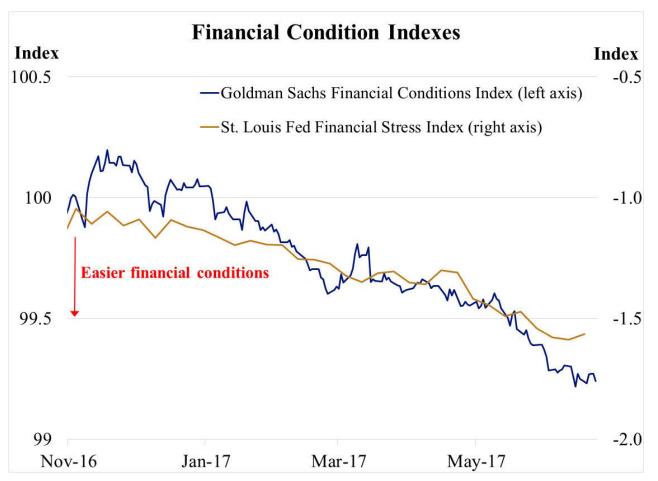
Growth rates are year-over-year; differences are expressed in percentage points. Source: International Monetary Fund, World Economic Outlook.

#### **Financial Conditions Indexes**

### U.S. financial conditions indexes suggest improvement

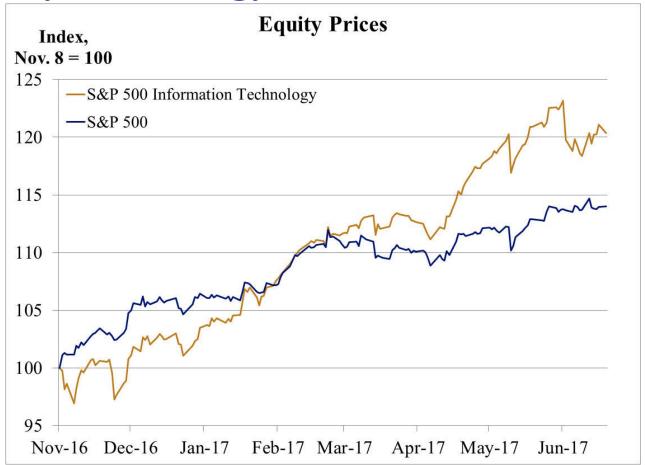
- Standard financial conditions indexes (FCI) suggest that financial conditions have improved since the December 2016 FOMC meeting.
- This is sometimes interpreted to mean that the FOMC decisions to increase the policy rate are not having any effect.
- Some of the drivers of FCI movements include low volatility as measured by the VIX, higher equity valuations and lower credit spreads.
- The FOMC has not historically targeted these types of variables when making monetary policy.

### Financial conditions have improved since last November



Source: FRB of St. Louis and Goldman Sachs. Last observation: week of June 16, 2017, and June 23, 2017. Note: Lower readings mean improved financial conditions.

### Higher equity valuations driven in part by technology stocks



Source: Bloomberg and author's calculations. Last observation: June 26, 2017.

### **Conclusion**

#### **Conclusion**

- The U.S. economy remains in the low-growth, low-inflation, low-interest-rate regime that has characterized recent years.
- U.S. inflation and market-based inflation expectations have surprised to the downside in recent months.
- Low unemployment readings are probably not an indicator of meaningfully higher inflation over the forecast horizon.
- The current level of the policy rate is appropriate given current macroeconomic data.



#### **Connect With Us**

#### **James Bullard**

stlouisfed.org/from-the-president

STLOUISFED.ORG

#### Federal Reserve Economic Data (FRED)

Thousands of data series, millions of users

### Blogs and Publications

News and views about the economy and the Fed

### Economic Education Resources

For every stage of life

### Community Development

Promoting financial stability of families, neighborhoods

SOCIAL MEDIA









**ECONOMY MUSEUM** 



AT THE FEDERAL RESERVE BANK OF ST. LOUIS