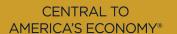


# A Low Inflation Surprise for U.S. Monetary Policy

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### Introduction

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

- Background on U.S. monetary policy and the Federal Open Market Committee (FOMC)
- Post-recession low-growth regime in the U.S.
- Recent low inflation in the U.S.
  - Connection to global commodity markets
  - Relationship with unemployment
- Upgrades to the global growth outlook and the implications for the value of the U.S. dollar
- Implications for near-term U.S. monetary policy: The current level of the policy rate is likely to remain appropriate over the near term.

### Background on U.S. Monetary Policy

### **Background on the Fed**

- The Federal Reserve ("the Fed") is the central bank of the U.S.
- The Fed provides regulatory services for banks operating in U.S. jurisdictions, provides payments services, conducts U.S. monetary policy and provides services to the U.S. Treasury.
- The Fed is the third attempt at a central bank for the U.S.— the first two attempts failed.
- Because of this, the Fed has a decentralized structure that includes 12 Federal Reserve Banks across the country.

#### The structure of the Federal Reserve

- The Fed can be thought of as having three components:
  - The Board of Governors in Washington, D.C., with seven seats appointed by the U.S. president and confirmed by the Senate
  - The Federal Reserve Bank of New York, interfacing with U.S. financial markets
  - Eleven "Main Street" Reserve Banks, bringing important input from around the country to key Fed decisions
- The monetary policy decisions are made by the FOMC, which consists of the seven governors and the 12 bank presidents.

### The FOMC's goals and instruments

- The Committee sets a key interest rate, the "policy rate," which influences national and global interest rates.
- In recent years, the Committee has also purchased large quantities of government securities and mortgage-backed securities as a supplementary policy.
- The Committee's goals include good labor market performance and an inflation target of 2 percent.
- Financial stability is sometimes considered as an additional goal, but can be more directly addressed through regulatory policy. This remains a hot topic.

#### The current macroeconomic situation

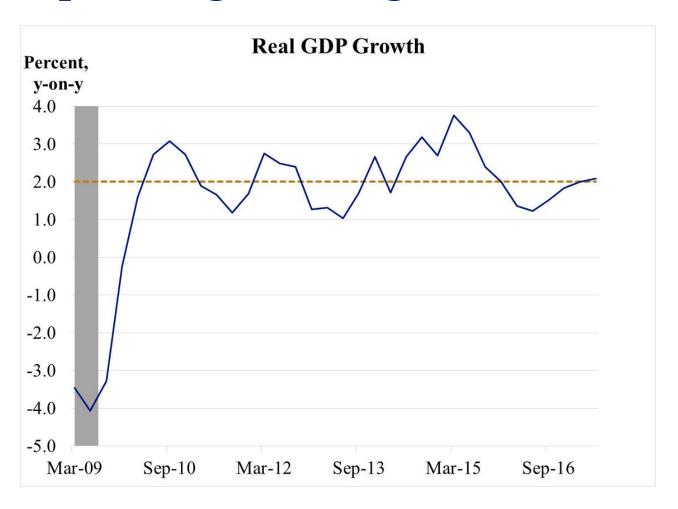
- The Committee has a large staff and closely tracks data on the U.S. and the global economy.
- Recent U.S. economic growth, measured by the percentage change in real GDP from one year earlier, has been about 2 percent, which is slow by U.S. historical standards.
- Recent labor market outcomes have been relatively good, with the U.S. unemployment rate at 4.3 percent.
- Recent inflation outcomes have been unexpectedly low, below the inflation target of 2 percent.

### **Low Growth**

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

- The data since the financial crisis suggest that the U.S. has converged to 2 percent real GDP growth.
- The current estimate for U.S. real GDP growth in the first half of 2017 is 1.9 percent at an annual rate.
- Second-quarter real GDP growth showed 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.

### The 2 percent growth regime



Source: Bureau of Economic Analysis. Last observation: 2017-Q2. The shaded area indicates NBER recession.

### **Low Inflation**

#### U.S. inflation in 2017

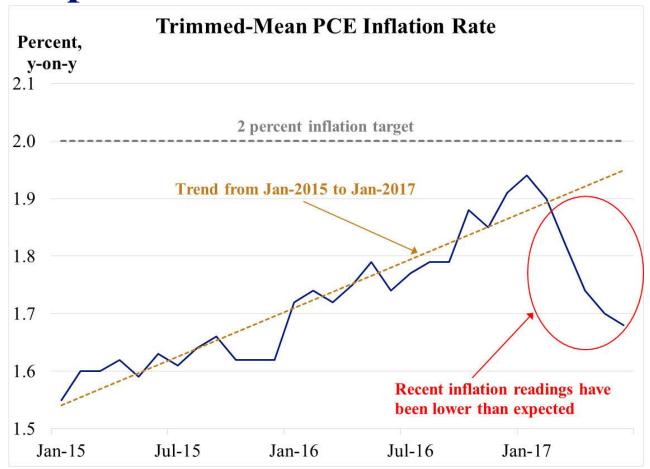
- The U.S. inflation rate has been below the 2 percent inflation target since 2012.
- Recent inflation data have surprised to the downside and call into question the idea that U.S. inflation is reliably returning toward target.
- In the following table, I focus on measures of inflation that try to control for particularly volatile movements in individual prices.

### Inflation readings are lower

Inflation measure	<b>Dec-2016</b>	Last obs.	Difference
Sticky CPI (FRB of Atlanta)	258	212	-46
Median CPI (FRB of Cleveland)	250	218	-32
Core CPI	220	170	-50
Trimmed-mean PCE (FRB of Dallas)	191	168	-23
Core PCE	187	150	-37

Values are expressed in basis points. Inflation rates are measured as percent changes from one year earlier. Sources: Bureau of Labor Statistics, FRB of Cleveland, FRB of Atlanta, Bureau of Economic Analysis, FRB of Dallas and author's calculations. Last observation: June 2017.

### Trimmed-mean PCE inflation lower than expected



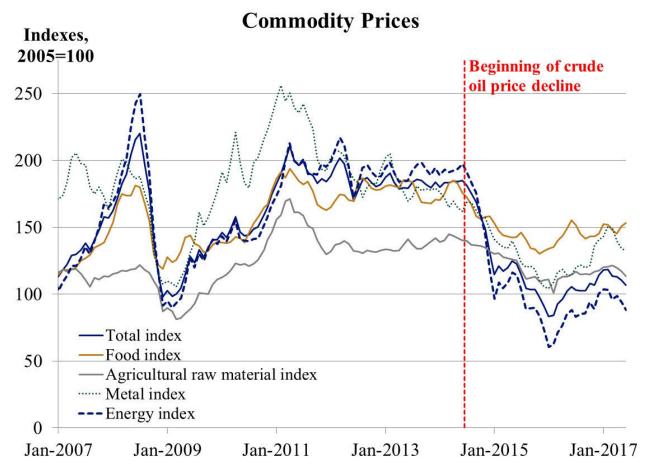
Sources: FRB of Dallas and author's calculations. Last observation: June 2017.

## Global Commodity Prices and U.S. Inflation

### Influence of global commodity prices on U.S. inflation

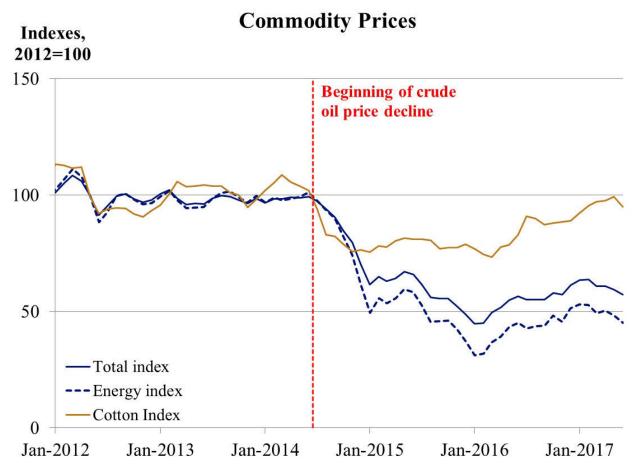
- Global commodity prices have an important impact on U.S. headline inflation.
- Crude oil prices, in particular, tend to influence the headline inflation rate. These prices are sensitive to perceived and actual supply and demand developments in the global crude oil market.
- The financialization of global commodity markets in recent years may have made many commodities, possibly including cotton, more highly correlated with oil prices than they otherwise would have been.

### Financialization of global commodity markets?



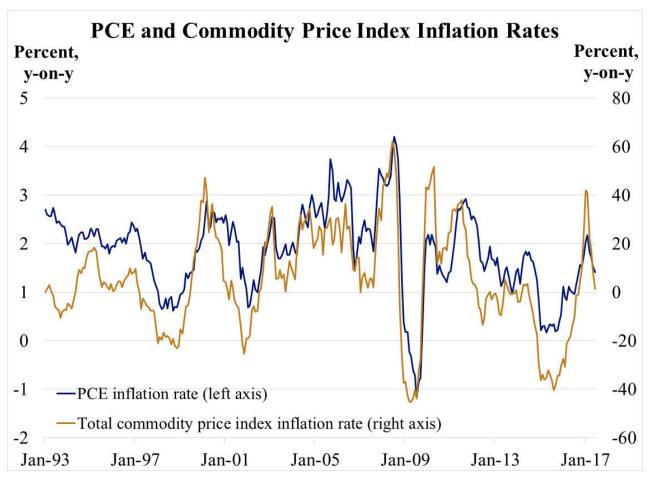
Source: International Monetary Fund. Last observation: June 2017.

#### Financialization and cotton?



Source: International Monetary Fund. Last observation: June 2017.

## Commodity prices have been influencing headline consumer prices



Sources: Bureau of Economic Analysis, International Monetary Fund and author's calculations. Last observation: June 2017.

### **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.
- Key upgrades occurred for Japan, Europe and China.
- Nevertheless, these upgrades do not add up to a meaningful upgrade at the global level.
- The value of the U.S. dollar has declined in 2017, a consequence of the brighter growth outlook for Europe and expectations for a somewhat more hawkish European Central Bank (ECB).

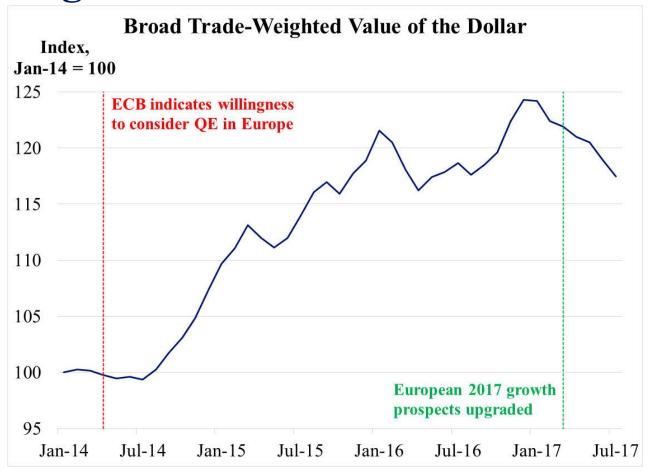
### Global growth: Forecasts for 2017 have improved since last fall

2017 Real GDP Growth	Jul-2017	Oct-2016	Difference
World Output	3.5%	3.4%	0.1
U.S.	2.1%	2.2%	-0.1
Euro area	1.9%	1.5%	0.4
Japan	1.3%	0.6%	0.7
China	6.7%	6.2%	0.5

Differences are expressed in percentage points.

Source: International Monetary Fund, World Economic Outlook Update, July 2017.

### **European developments and dollar exchange rate**



Sources: Federal Reserve Board and author's calculations. Last observation: July 2017. Note: The green vertical line corresponds to the IMF's release of the World Economic Outlook, April 2017.

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

### **Unemployment is low**

- The U.S. unemployment rate was 4.3 percent in the July reading.
- Does this mean that U.S. inflation is about to increase substantially?
- The short answer is no, based on current estimates of the relationship between unemployment and inflation.

### 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%

<sup>\*</sup> current value (July 2017 for unemployment, June 2017 for inflation)

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

### **Conclusion**

#### **Conclusion**

- Recent data indicate that real U.S. GDP growth remains consistent with the low-growth regime of recent years.
- U.S. inflation has 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.



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