

# U.S. Interest Rates Chartbook August 2017



## Takeaways

- Minutes from the July FOMC meeting revealed that some members continue to raise concern with tame inflation. However, FOMC members have echoed agreement to start shrinking the balance sheet soon
- The primary dealers July survey has revealed a 25 basis point lower long-term Fed funds rate expectation relative to the FOMC June projection
- ♦ The 10-Year Treasury yield at the end of August has dropped to a 9-month low of 2.13 percent as geopolitical risks put further downward pressure on term premium
- Long-term yield volatility has remained at historic lows
- ♦ In the long-run, the yield curve is expected to flatten due to upward pressure on short-term rates from the Fed funds rate hikes while long-term yields will remain under downward pressure from low term-premium, a decline in inflation expectations, and from continued risk-off sentiment





## **Unconventional Monetary Policy**

### FEDERAL FUNDS RATE AND 10-YEAR TREASURY NOTE

(%)

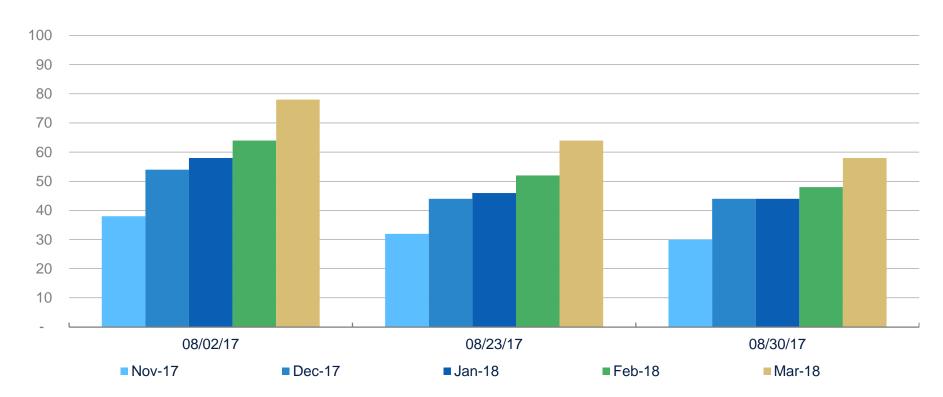




### A Fifth Rate Hike is Priced in for 1Q18

### FED FUNDS FUTURES IMPLIED PROBABILITIES, FIFTH 25BP HIKE

(%)



Source: BBVA Research and Bloomberg



### A Flatter Fed Funds Futures Curve

### FED FUNDS FUTURES - MOST RECENT, 1 WEEK PRIOR, 1 MONTH PRIOR, 3 MONTHS PRIOR



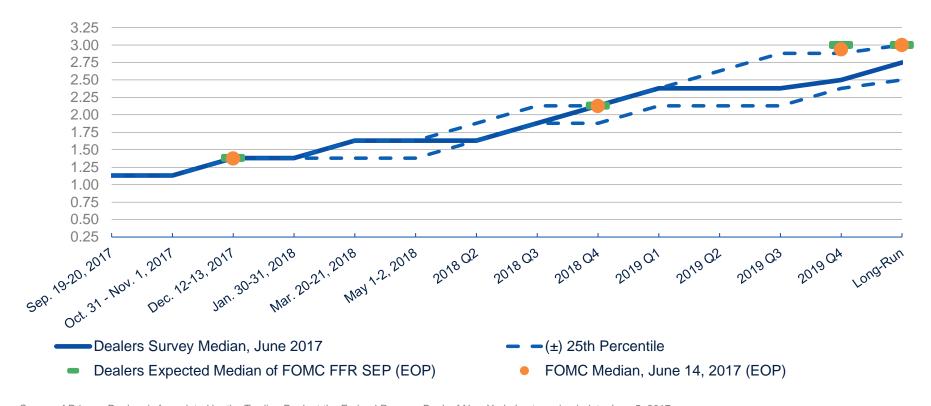
Source: BBVA Research and Bloomberg



## Dealers' Expectations for the Long-Run Fed Funds Rate Have Declined to 2.75%, Diverging from the FOMC's 3.00%

### PROJECTED PACE OF POLICY FIRMING

(%)



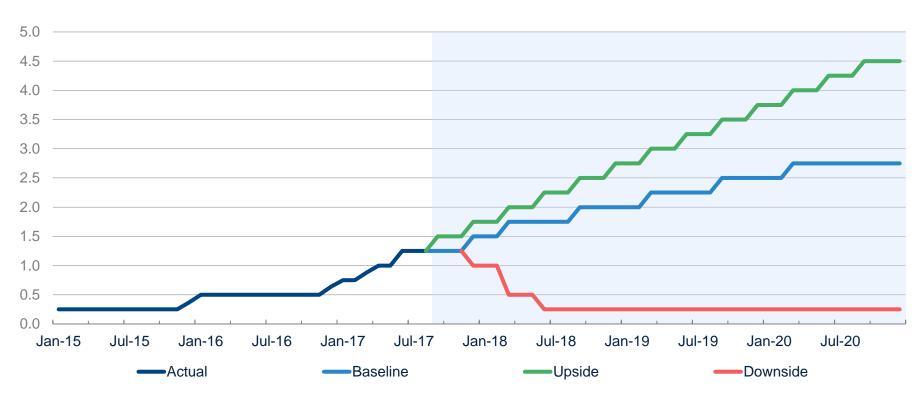
Survey of Primary Dealers is formulated by the Trading Desk at the Federal Reserve Bank of New York. Last received date June 5, 2017



## **Fed Funds Firming Pace Forecast**

### **FEDERAL FUNDS RATE**

(%, Upper Bound, End of Period)

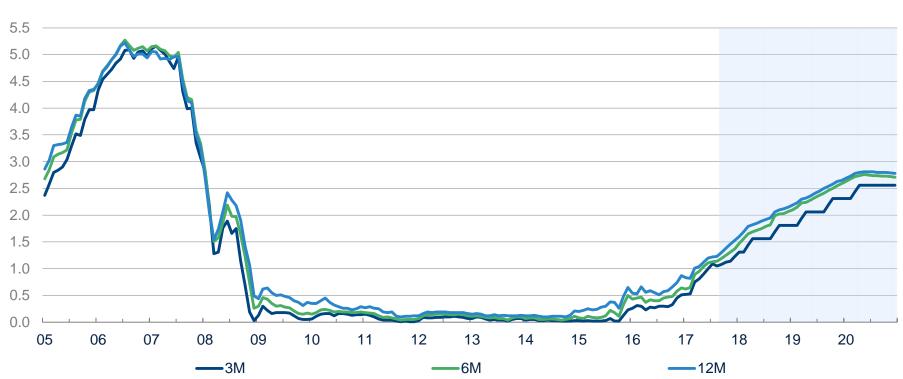




## **Baseline Forecasts of Treasury Bill Yield**

### **3-MONTH TO 12-MONTH RATES**







## Long-Term Yield Volatility Has Normalized Substantially Below Its Historic Mean

#### 10-YEAR U.S. TREASURY NOTE VOLATILITY

(Daily index)



Index measures a constant 30-day expected volatility of 10-Year Treasury Note futures prices, and is calculated based on transparent pricing from the Chicago Board of Trade's actively traded options on the Treasury Note futures

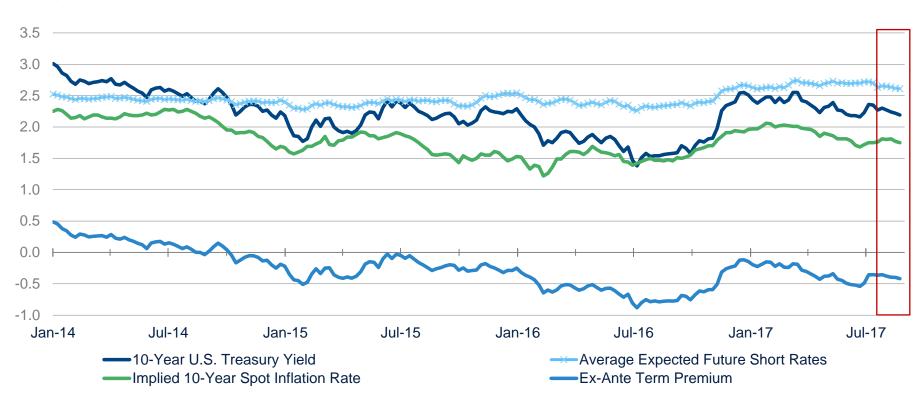
Source: BBVA Research, Chicago Board Options Exchange and Bloomberg



### **Sustained Downward Pressure on Term Premium**

#### 10-YEAR U.S. TREASURY TERM PREMIUM & MARKET INFLATION EXPECTATIONS

(Weekly, %)





## Mid-Term Duration-Risk Compression Has Normalized at 9 Basis Points

#### **DURATION-RISK COMPRESSION**





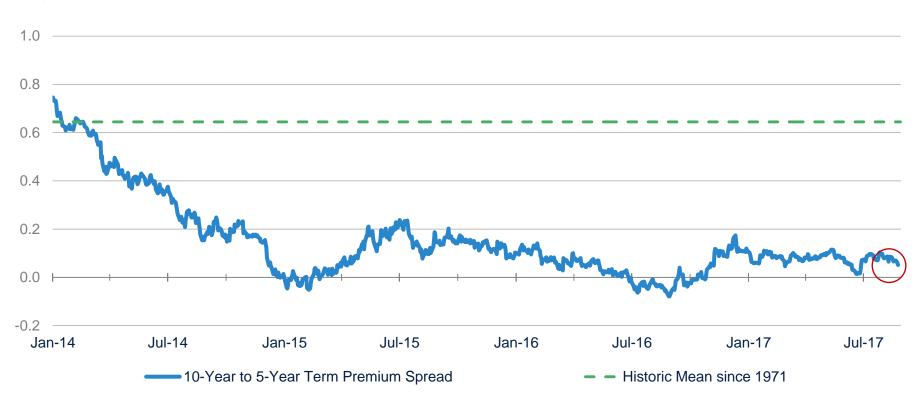
Calculated as the difference between 5-Year and 3-Year term premium reported by the New York Fed ACM (Adrian, Crump, and Moench) five-factor, no-arbitrage term structure model incorporating pricing factors.



## Long-Term Duration-Risk Compression Has Declined to 5 Basis Points

#### **DURATION-RISK COMPRESSION**

(Daily, %)

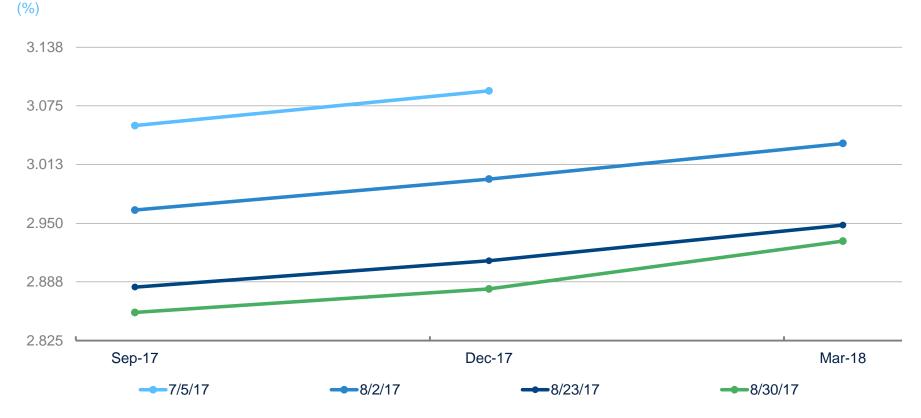


Calculated as the difference between 10-Year and 5-Year term premium reported by the New York Fed ACM (Adrian, Crump, and Moench) five-factor, no-arbitrage term structure model incorporating pricing factors.



## Futures Discount an 8 Basis Points Raise in 10-Year Treasury Yield Over the Next 3 Quarters

10-YEAR U.S. TREASURY YIELD FUTURES – MOST RECENT, 1 WEEK PRIOR, 4 WEEKS PRIOR, 8 WEEKS PRIOR

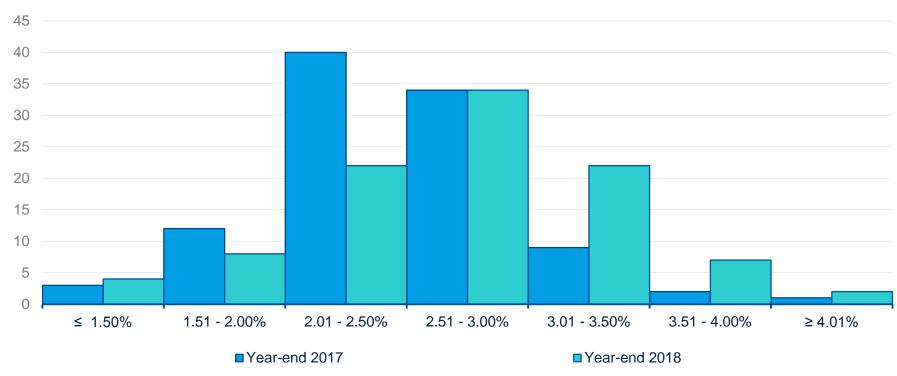


Source: BBVA Research and Bloomberg



## Primary Dealers Expect 10-Year Treasury Yield to Remain in the Range of 2.01-2.50% at Year-end 2017

Percent Chance Attached to 10-Year U.S. Treasury Yield Falling in Each of the Following Ranges (%, Average)



Survey of Primary Dealers is formulated by the Trading Desk at the Federal Reserve Bank of New York. Last received date July 17, 2017

Source: BBVA Research and FRB New York



## **10-Year Treasury Yield Forecasts**

### **10-YEAR U.S. TREASURY YIELD**



<sup>\*</sup> National Association for Business Economics (NABE) Outlook median forecast compiled from a panel of NABE members. Last release date June 4, 2017

<sup>\*\*</sup> Survey of Professional Forecasters (SPF) conducted by Federal Reserve Bank of Philadelphia. Last release date August11, 2017

<sup>\*\*\*</sup> Congressional Budget Office (CBO). Last release date June 29, 2017

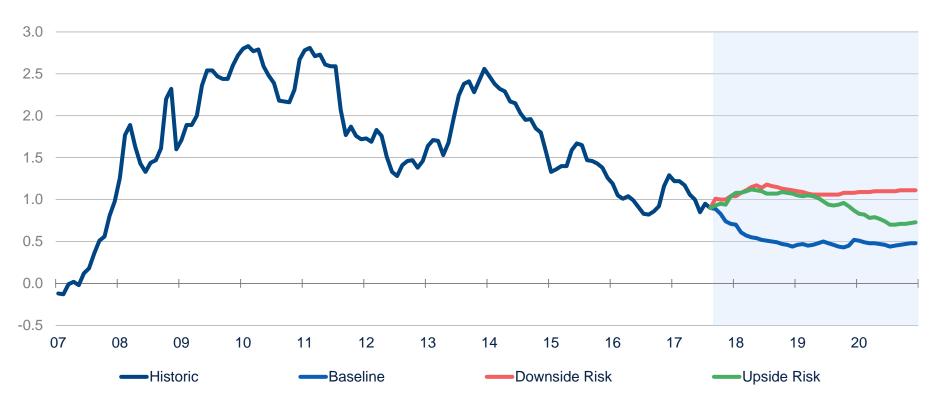
<sup>\*\*\*\*</sup> Administration: 2018 Budget. Last release date May 23, 2017



## **Yield Curve Slope Forecasts**

### TREASURY YIELD CURVE SLOPE

(%, 10Y-2Y)





## **Treasury Yield Curve Baseline Forecasts**

#### **U.S. TREASURY YIELD CURVE**





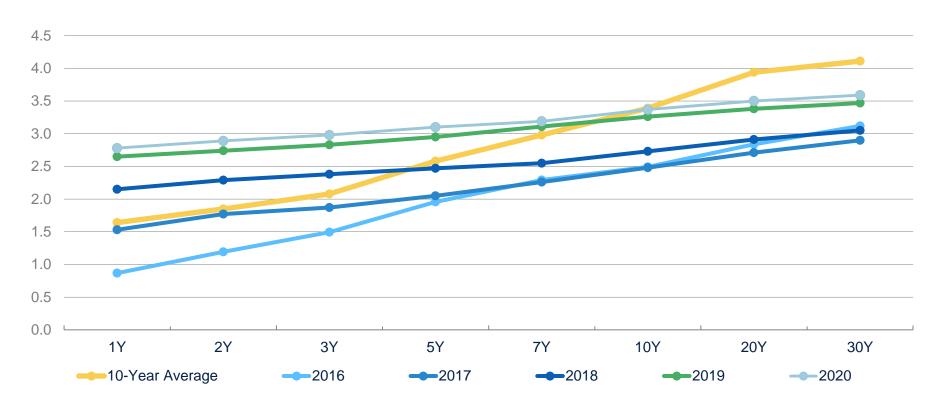
Treasury yield curve is estimated with a three-factor no-arbitrage model linked to macroeconomic factors measuring growth, inflation and monetary policy. Estimates are based on BBVA research baseline forecast for GDP growth, inflation and Fed funds rate.



### **Yield Curve Forecasts**

#### TREASURY YIELD CURVE BASELINE FORECAST

(%, End of Period)



Treasury yield curve is estimated with a three-factor no-arbitrage model linked to macroeconomic factors measuring growth, inflation and monetary policy. Estimates are based on BBVA research baseline forecast for GDP growth, inflation and Fed funds rate.



## **Swap Curve Baseline Forecasts**

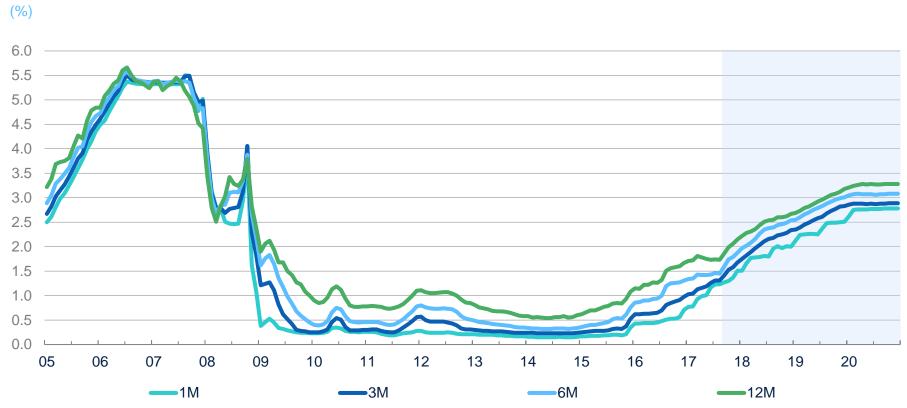
### **U.S. SWAP RATES**





### **LIBOR Curve Baseline Forecasts**

### **U.S. DOLLAR LIBOR RATES**





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