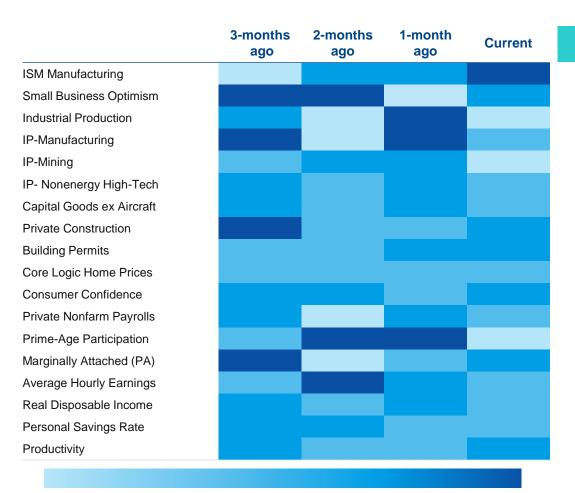


Economic Outlook

- Economic conditions remain consistent with high growth and moderate inflation in 2018 & 2019
- FOMC remains poised to raise rates at their upcoming meeting in September and again in December. Baseline assumes three additional increases in '19
- Labor market conditions remain auspicious: strong job growth, low unemployment, rising wages and record-high job openings
- Inflation continues to firm with core PCE set to surpass 2% YoY by end of 3Q18. Tailwinds from tariffs and rising nonlabor price pressures remain
- Geopolitical uncertainty and trade tensions containing 10-year Treasury yields
- The Treasury yield curve slope will continue to flatten
- Oil prices to converge to long-run equilibrium despite short-term volatility

Economic activity

Real-Time Economic Momentum Heat Map



- Soft indicators for manufacturing sector remain upbeat
- Momentum in O&G sector slowing somewhat
- Strong retail sales data suggests another strong quarter for consumption
- Despite strong labor market signals, labor force participation declined
- Home price growth continues, but cost pressures putting a crimp in demand

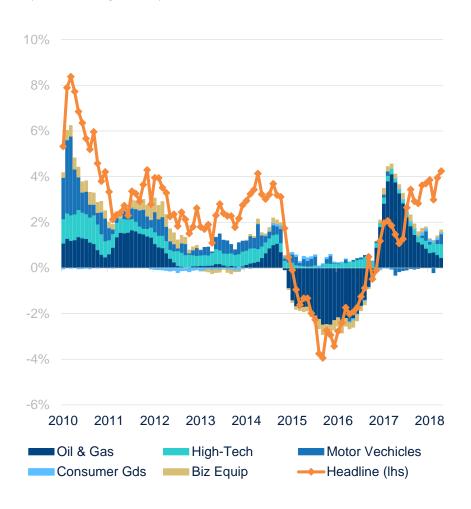
Below Average

Above Average

Economic trends: Consumer and industrial activity accelerating

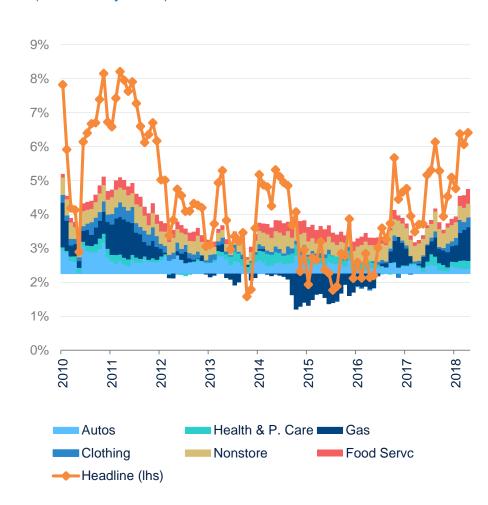


(Year-over-year %)



Retail Sales

(Year-over-year %)

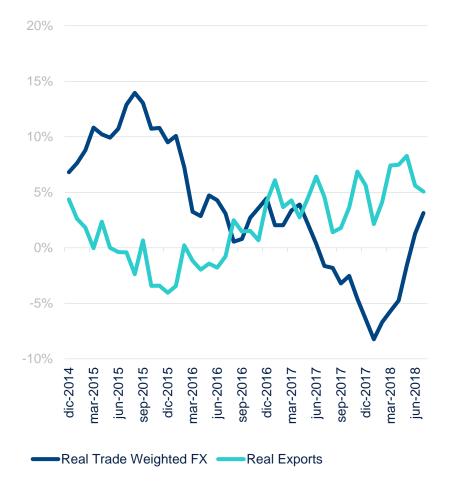


Source: BBVA Research, FRB & BEA

Economic trends: Exports facing headwinds from tariffs and dollar strength

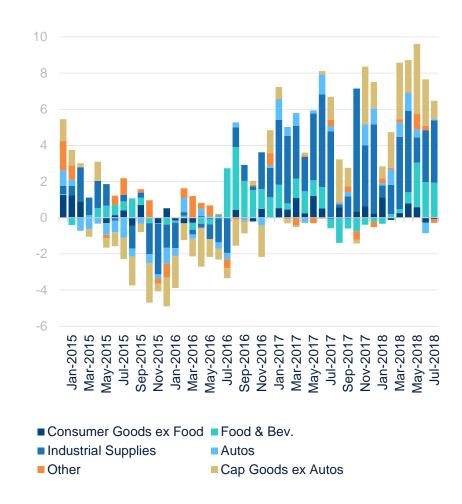
Real Exchange Rates and Exports

(Year-over-year %)



Real Exports

(Contribution to year-over-year %)



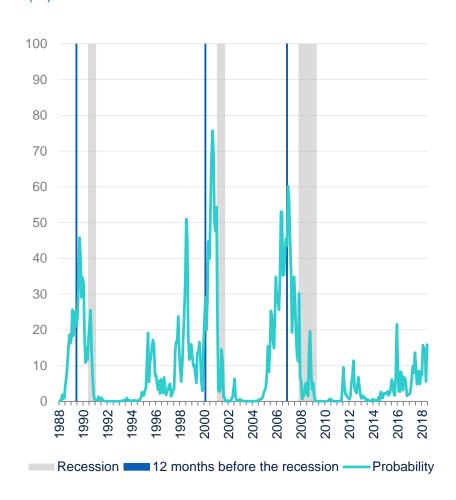
Economic trends: Despite increased probability of slower growth in 3Q, still on track for 2.8% in '18

Real GDP

(QoQ SAAR, %)



Probability of Recession in 12 Months (%)

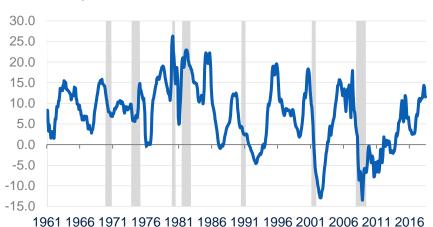


Source: BBVA Research, and ATL & NY Fed

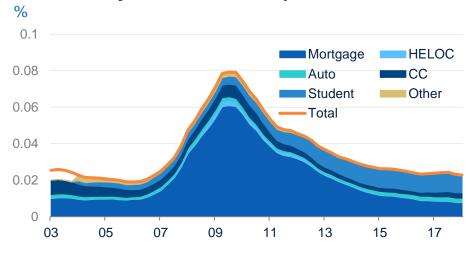
Consumer credit cycle: leverage metrics elevated, but standards remain robust in post-crisis period

Personal Interest Expense

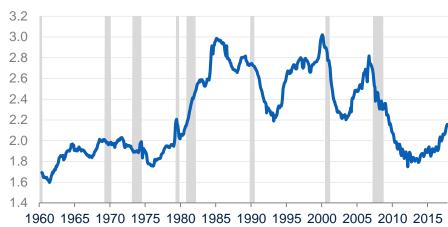
Year-over-year %



New 30+ Day Consumer Delinquencies Rates

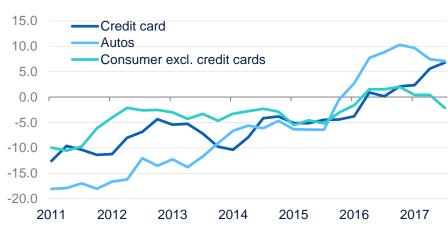


Personal Interest Expense to Disp. Income Ratio, %



Senior Loan Officers Lending Standards

+ tightening / - loosening



Source: BBVA Research, FRB, NY Fed & BEA

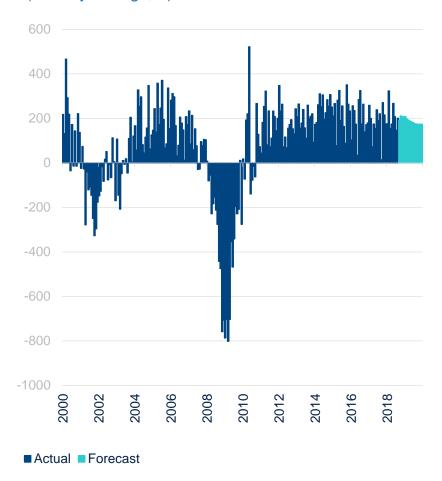
Labor Market

- In August, nonfarm payrolls increased by 201K, supported by solid gains in professional and business services (53K), health care (33K), construction (23K), wholesale trade (22K), and transportation and warehousing (20K)
- The revisions to payroll for June and July implied 50K less jobs than originally reported
- The unemployment rate was unchanged at 3.9% while the employment-topopulation and participation rate edged down
- Average hourly earnings increased 0.4% during the month and 2.9% YoY, in what represents the largest increase since May 2009
- We expect the UR to reach 3.7% by the end of the year, as our baseline assumes average monthly job growth that is well above the amount needed to absorb any remaining slack

Labor market: Opportunities continue to improve in nontrivial share of industries

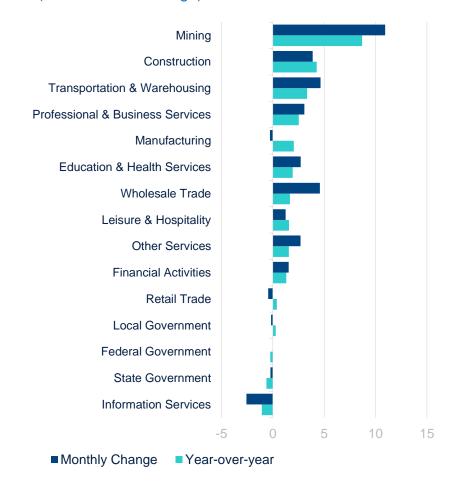
Nonfarm Payrolls

(Monthly Change, K)



Industry Employment

(Annualized % change)



Source: BBVA Research & BLS

Labor market: Increasing wages and hours worked a reflection of domestic momentum

Average Weekly Hours

(number & 5mcma)

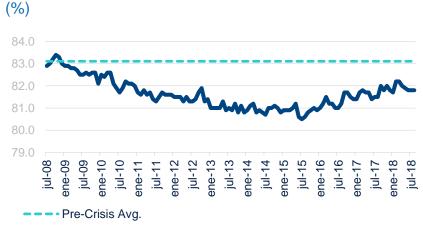


Average Hourly Earnings

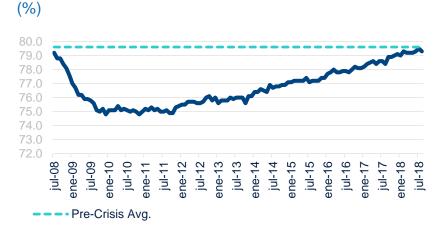
(YoY% & 5mcma)



Prime Age Labor Force Participation



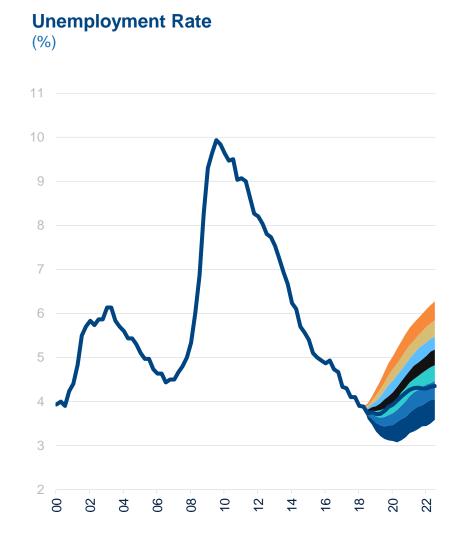
Prime Age Employment-to-Population



Source: BBVA Research & BLS

Labor market: Broader measures of labor market utilization strong





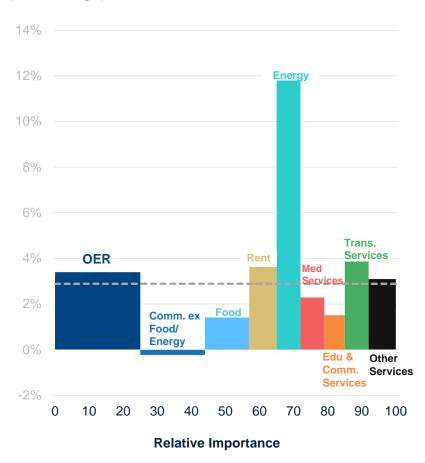
Inflation

- Headline CPI accelerated to 2.9% year-over-year, the highest in six years while core CPI surged to 2.3%
- Core PCE growth at its highest since 2012
- In July, probability of entering high-inflation regime was 0.8%
- Diffusion index suggests bulk of personal consumption sub-components remain in a stable price regime
- Despite building price pressures in important categories such as OER and healthcare, probabilities of a regime change in these categories remain low
- With additional tailwinds from an expansionary fiscal policy and tit-for-tat tariffs, core PCE will rise to 2.2% by 2019

Inflation: Headline CPI on track to exceed 3.0%

Consumer Price Inflation

(12m change)



Core Inflation Measures

(12m change)

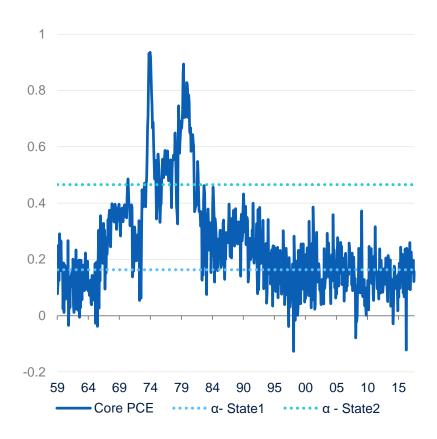


Source: BBVA Research, BLS & BEA

Inflation: Probability of shifting to high inflation regime remains low

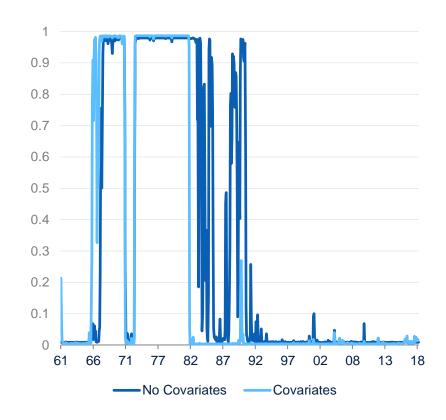
Core PCE Price Index & Inflation Regimes

Month-over-month %



Inflation Regime Change Probability

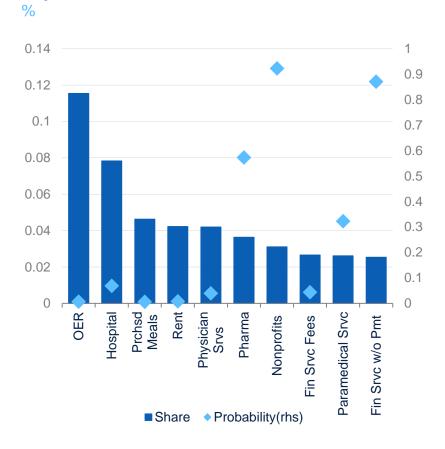
%



Source: BBVA Research & BLS

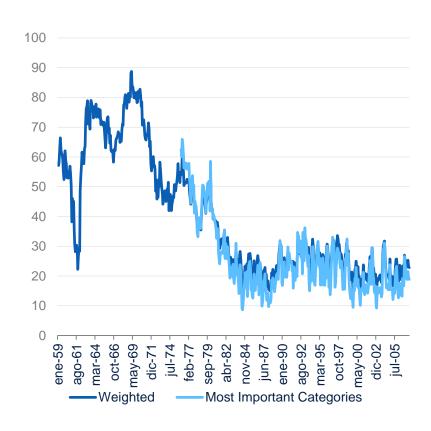
Inflation: Bulk of inflation subcomponents in low inflation regime

High Inflation Regime Probability and Relative Importance



Inflation Regime Change Diffusion Index*

* 50+ = Bulk of Components in High Inflation State



Source: BBVA Research

Inflation: Inflation expectations rooted, outlook remains for inflation to trend towards Fed 2% target

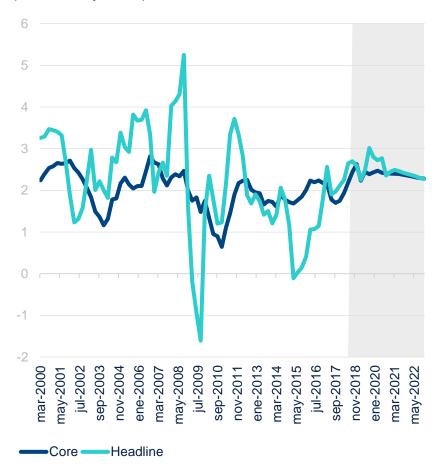
Inflation Expectations





Headline & Core CPI

(Year-over-year %)



Source: BBVA Research & Haver Analytics

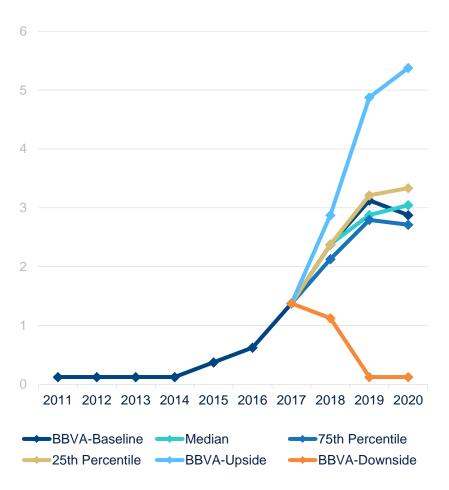
Monetary Policy: Federal Reserve

- The FOMC to raise target range of the federal funds from 2.0% to 2.25% at their September meeting
- Increasing concerns on protectionism, "...a major escalation in trade disputes, the complex nature of trade issues, including the entire range of their effects on output and inflation, presented a challenge in determining the appropriate monetary policy response."
- The discussion on the effective lower bound (ELB) in the minutes implies committee aware of high chances of reaching ELB again and structural risks associated with frequent or extended episodes at the ELB
- Yield curve inversion remains a source of concern for some members, but there is a divide on how to interpret or respond to such signal
- We continue to expect that the committee will raise rates again in December and three more times in 2019

Fed: No change to outlook, two rate increases this year and 3 rate increases next

BBVA & Dealers Projections of Fed Funds

(%, Effective)



FOMC Projections of Fed Funds

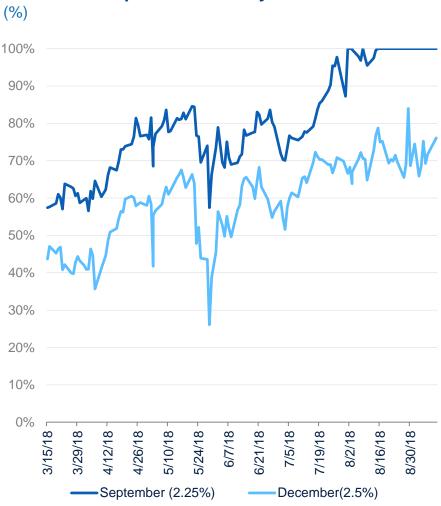
(Year-over-year %, Mid-point)



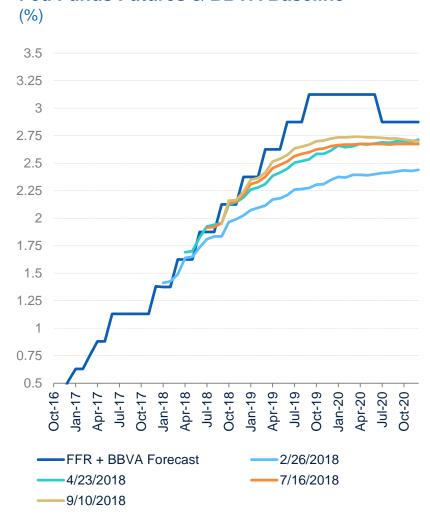
Source: BBVA Research & FRB

Monetary policy: markets finally starting to price in 2019 overshooting





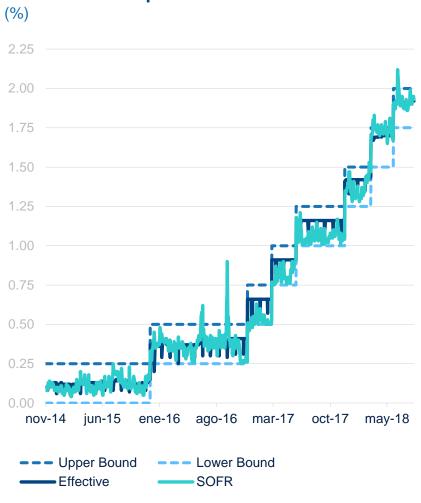
Fed Funds Futures & BBVA Baseline



Source: BBVA Research & Bloomberg

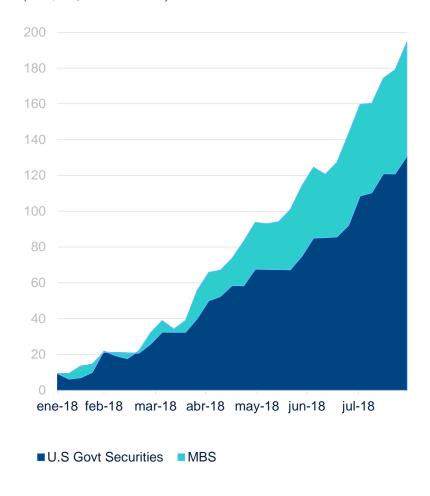
Interest rates: Fed Funds and Repo rates trading within target range, balance sheet attrition picking up





Balance Sheet Attrition

(US\$bn, Cumulative)



Source: BBVA Research & FRB

Interest Rates

- Short-term rates to continue upward trend after FOMC raises Federal Funds rates in September
- Recent progress on NAFTA, reduced histrionics and strong domestic growth and inflation help to modestly decompress term-premium
- Lower emerging market volatility helping to lift long-term rates
- Baseline assumes 10-year Treasury yield at 3.1% by year-end 2018 and 3.6% by year-end 2019, amid ongoing risks to the downside
- The Treasury yield curve slope to flatten further but remain positive

Interest rates: Slight decompression in term premium allows 10-year to resume upward trend

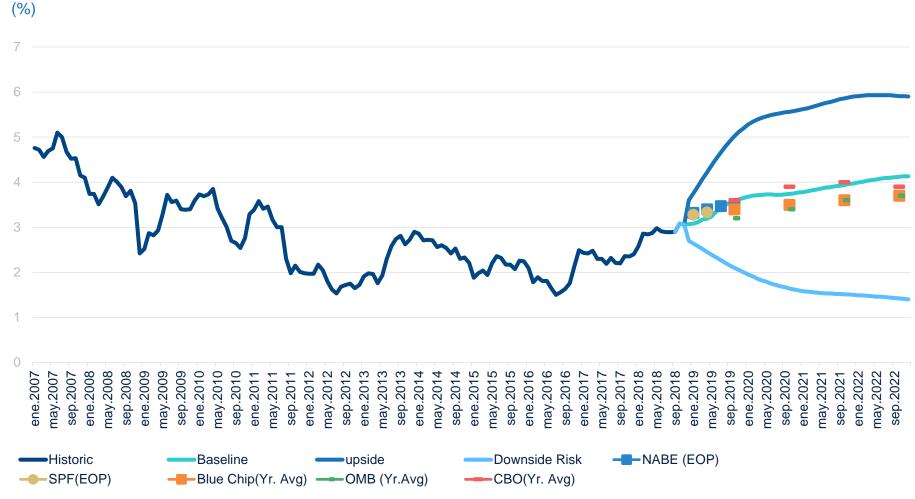
10-Year Treasury Yield Decomposition



Source: BBVA Research, ACM & Haver Analytics

Interest rates: Forecast is for 10-year treasury yield to reach 3.1% by year-end 2018 and 3.6% year-end 2019

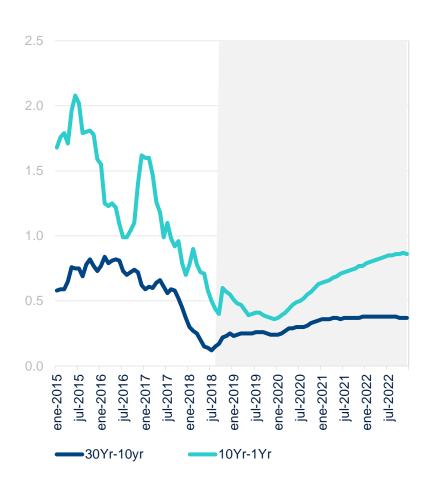




Interest rates: Baseline scenario continues to assume no yield curve inversion

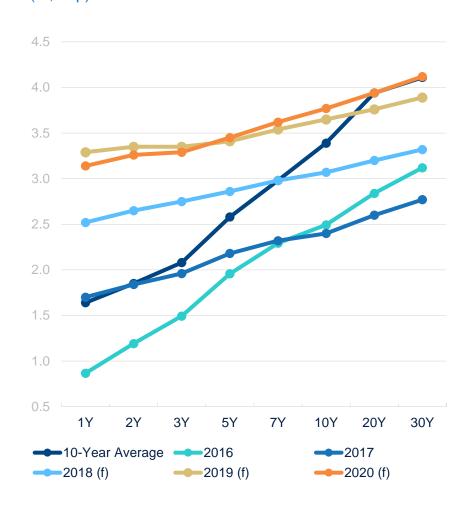
Yield Curve Slope

(Bp)



Yield Curve

(%, eop)



Source: BBVA Research

Macroeconomic Outlook

	2011	2012	2013	2014	2015	2016	2017	2018 (f)	2019 (f)	2020 (f)	2021 (f)	2022 (f)
Real GDP (% SAAR)	1.6	2.2	1.8	2.5	2.9	1.6	2.2	2.8	2.8	2.5	2.3	2.1
Real GDP (Contribution, pp)												
PCE	1.3	1.0	1.0	2.0	2.5	1.9	1.8	1.9	1.8	1.5	1.4	1.4
Gross Investment	0.9	1.6	1.1	0.9	0.8	-0.2	8.0	8.0	1.0	1.0	1.0	0.8
Non Residential	1.0	1.2	0.5	0.9	0.3	0.1	0.7	1.1	1.1	0.9	8.0	0.7
Residential	0.0	0.3	0.3	0.1	0.3	0.2	0.1	0.0	0.1	0.2	0.1	0.1
Exports	0.9	0.5	0.5	0.6	0.1	0.0	0.4	0.6	0.6	0.7	0.7	0.7
Imports	-0.9	-0.5	-0.3	-0.9	-1.0	-0.3	-0.8	-0.7	-0.8	-0.9	-0.9	-0.9
Government	-0.7	-0.4	-0.5	-0.2	0.3	0.3	0.0	0.3	0.3	0.2	0.1	0.1
Unemployment Rate (%, average)	8.9	8.1	7.4	6.2	5.3	4.9	4.4	3.9	3.7	4.0	4.3	4.3
Avg. Monthly Nonfarm Payroll (K)	174	179	192	250	226	195	182	206	183	158	125	107
CPI (YoY %)	3.1	2.1	1.5	1.6	0.1	1.3	2.1	2.5	2.6	2.6	2.4	2.3
Core CPI (YoY %)	1.7	2.1	1.8	1.7	1.8	2.2	1.8	2.3	2.4	2.4	2.4	2.3
Fiscal Balance (% GDP, FY)	-8.4	-6.8	-4.1	-2.8	-2.4	-3.2	-3.5	-4.4	-4.6	-4.5	-4.8	-5.2
Current Account (bop, % GDP)	-2.9	-2.6	-2.1	-2.1	-2.2	-2.3	-2.3	-2.3	-2.4	-2.4	-2.5	-2.5
Fed Target Rate (%, eop)	0.25	0.25	0.25	0.25	0.50	0.75	1.50	2.50	3.25	3.00	3.00	3.00
Core Logic National HPI (YoY %)	-2.9	4.0	9.7	6.8	5.3	5.5	5.9	6.5	5.5	5.4	5.7	5.9
10-Yr Treasury (% Yield, eop)	1.98	1.72	2.90	2.21	2.24	2.49	2.40	3.07	3.65	3.77	3.97	4.13
Brent Oil Prices (dpb, average)	111.3	111.7	108.7	99.0	52.4	43.6	54.3	72.3	70.3	64.9	60.9	60.0

Economic Scenarios

Probability (%)	Current Previous						
Upside	15	10					
Baseline	60	65					
Downside	25	25					

Macro Scenarios

mació oceriarios										
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
GDP	1.8	2.5	2.9	1.6	2.2	2.8	2.8	2.5	2.3	2.1
Upside	1.8	2.5	2.9	1.6	2.2	3.0	3.7	3.3	3.1	3.0
Downside	1.8	2.5	2.9	1.6	2.2	2.2	-1.5	0.1	1.2	1.4
UR	7.4	6.2	5.3	4.9	4.4	3.9	3.7	4.0	4.3	4.3
Upside	7.4	6.2	5.3	4.9	4.4	3.9	3.2	2.9	3.0	3.0
Downside	7.4	6.2	5.3	4.9	4.4	4.0	4.6	6.6	7.0	5.7
CPI	1.5	1.6	0.1	1.3	2.1	2.5	2.6	2.6	2.4	2.3
Upside	1.5	1.6	0.1	1.3	2.1	2.6	3.4	3.5	3.7	3.7
Downside	1.5	1.6	0.1	1.3	2.1	2.4	1.3	1.0	0.7	0.6
ed [eop]	0.25	0.25	0.50	0.75	1.50	2.50	3.25	3.00	3.00	3.00
Upside	0.25	0.25	0.5	0.75	1.5	3	5	5.5	5.5	5.5
Downside	0.25	0.25	0.5	0.75	1.5	1.25	0.25	0.25	0.25	0.25
10-Yr [eop]	2.9	2.21	2.24	2.49	2.4	3.07	3.65	3.77	3.97	4.13
Upside	2.9	2.21	2.24	2.49	2.4	3.6	5.2	5.6	5.9	5.9
Downside	2.9	2.21	2.24	2.49	2.4	2.7	2	1.6	1.5	1.4

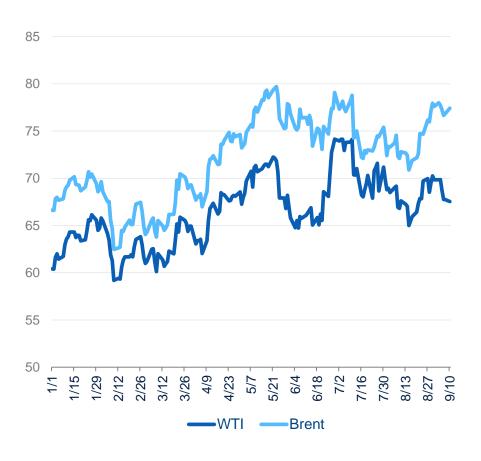
^{*}Forecasts subject to change

Energy Prices

- U.S. sanctions on Iran, concerns on OPEC spare capacity and the potential trade war will influence oil prices through the rest of the year
- Even though U.S. O&G activity remains strong, takeaway challenges in the Permian Basin have widened the gap between WTI and Brent
- Robust global demand supported by China, India and the U.S.
- Prices are expected to converge to long-term equilibrium as demand growth returns to trend and U.S. export capacity increases
- The main uncertainty to oil prices arises from the effect of subpar global CAPEX on supply

Energy Prices: WTI has been less sensitive to global developments

Crude oil prices (2018, \$ per barrel)



Brent-WTI Differential

(2018, \$ per barrel)

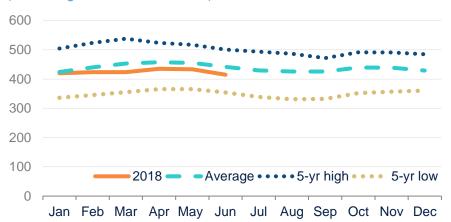


Source: BBVA Research and Haver Analytics 28

Energy Prices: differentials highlight takeaway issues

U.S. Crude oil inventories

(Excluding SPR, million barrels)



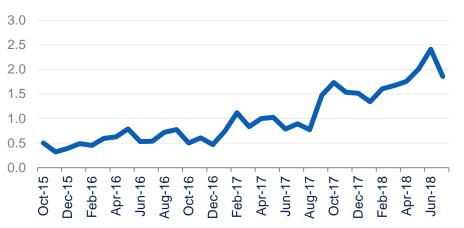
WTI Midland-Cushing differential (\$/b)



-20 Jan-18 Feb-18 Apr-17 Jun-17 Jul-17 Aug-17 Sep-17 Nov-17 Dec-17 Oct-17

U.S. Crude oil exports

(Million barrels/day)

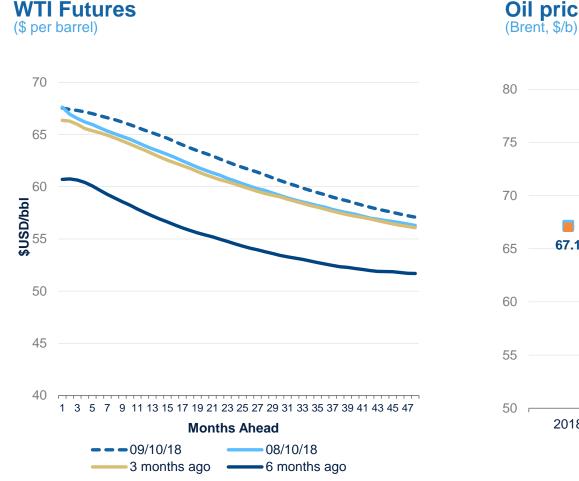


U.S. Estimated crude oil production (Thousand barrels/day)

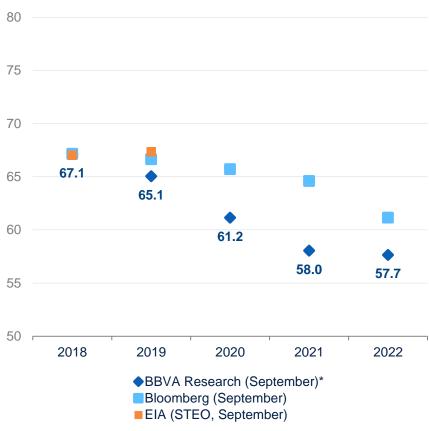


29 Source: BBVA Research and Haver Analytics

Our forecasts continue signaling convergence to long-term equilibrium



Oil prices forecast



Source: BBVA Research and Bloomberg

^{*} Preliminary, unofficial

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