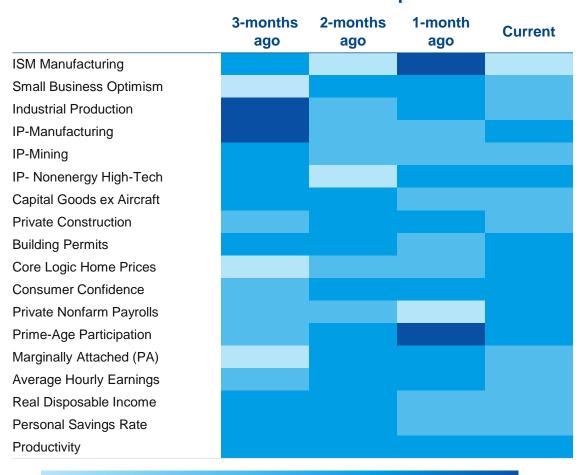


Economic Outlook

- Modest upside risk to growth in 2018, baseline for 2019 unchanged but risks tilted to the downside
- Although models suggest low risk of recession, qualitative analysis indicates downside risks are increasing
- FOMC remains poised to raise rates in December. Baseline assumes three additional increases in 2019
- Labor market slack minimal, as unemployment rate nears 50 year lows.
- Inflation pressures ease in 3Q18, but tariffs and rising nonlabor price pressures will continue to buoy inflation expectations. Our scenario continues to anticipate a slight overshooting of 2% target
- 10-year Treasury continues upward trend in line with our baseline
- Analysts and future markets have lowered their expectations for oil prices

Economic activity

Real-Time Economic Momentum Heat Map



- While confidence indicators remain elevated, momentum continues to slow
- Home price momentum slowing as rising rates weigh on the demand side
- Durable goods orders drop in September after strong momentum in 1H18
- Labor force inflows continue to add to the tightness of the labor market
- Moderate income growth requiring consumers to dip into savings

Below Average Above Average

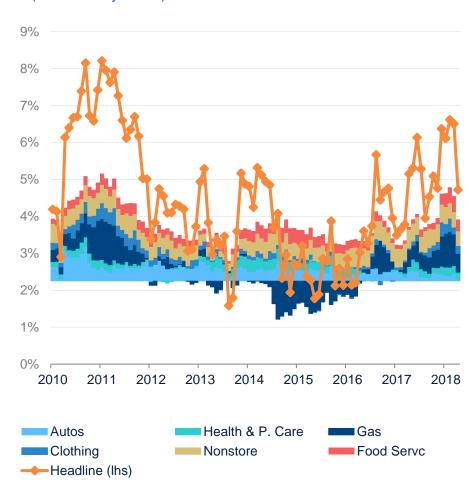
Economic trends: Headwinds building on the consumer









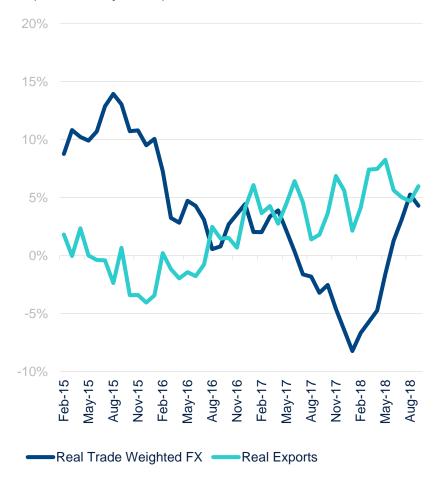


Source: BBVA Research, FRB & BEA

Economic trends: Tariffs and geopolitical tensions have little effect on U.S. exports

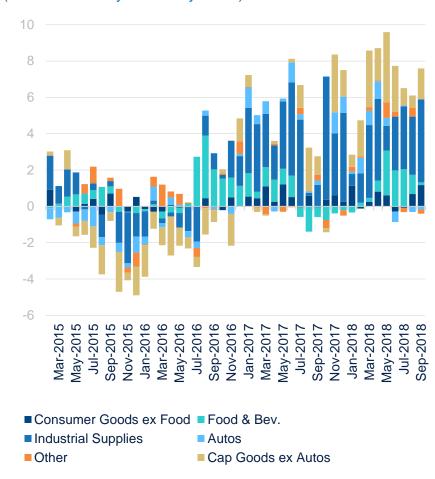
Real Exchange Rates and Exports

(Year-over-year %)



Real Exports

(Contribution to year-over-year %)



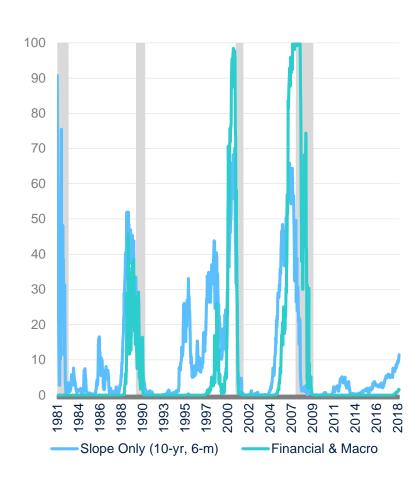
Economic trends: Growth in 4Q18 to show further deceleration, recession probability 2.0%



(QoQ SAAR, %)



Probability of Recession in 12 Months (%)

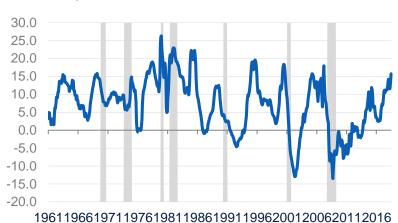


Source: BBVA Research, and ATL & NY Fed

Consumer credit cycle: Personal Interest expense continues rising as a share of disposable income

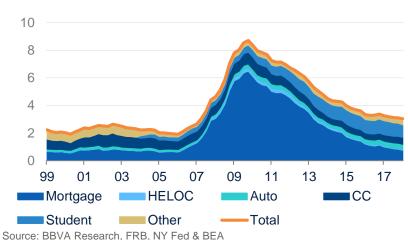
Personal Interest Expense

Year-over-year %



New 30+ Day Consumer Delinquencies Rates

%



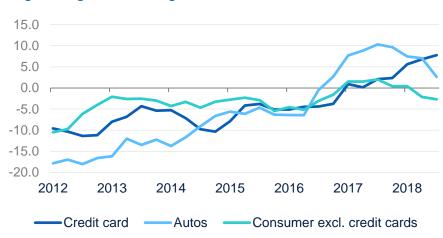
Personal Interest Expense to Disp. Income

Ratio, %



Senior Loan Officers Lending Standards

+ tightening / - loosening



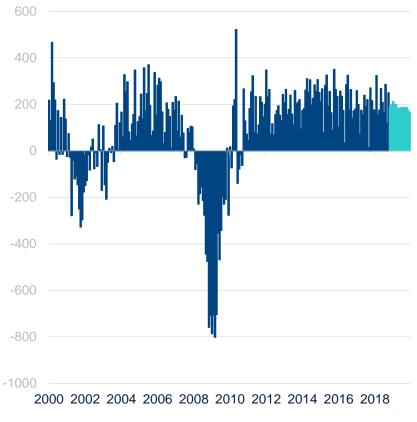
Labor Market

- In October, nonfarm payrolls increased at an above average pace (250K), as the weather effects faded from the data
- In terms of industry trends, the report showed solid gains in health care (36K), manufacturing (32K), construction (30K) and transportation and warehousing (25K)
- No material change in the jobs figures in August and September
- At 3.7%, the unemployment rate remained at its lowest point since December 1969
- The labor force participation rate and employment-population ratio increased to 62.9% and 60.6%
- We expect the UR to remain close to its current rate of 3.7%, as employment growth eases in the 1H19

Labor market: Job growth recovers, as impacts from hurricanes fades

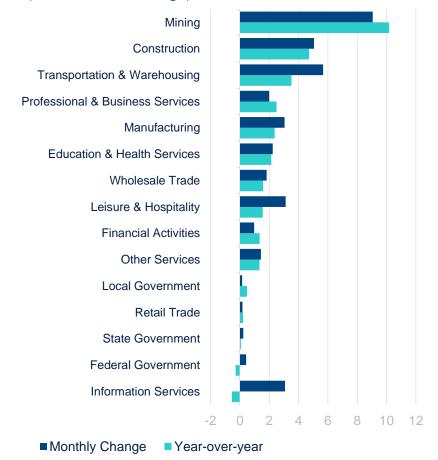






Industry Employment





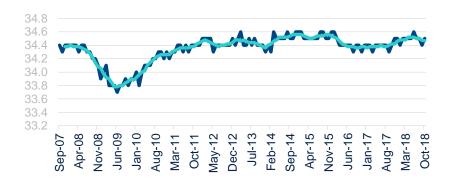
Source: BBVA Research & BLS

■ Actual ■ Forecast

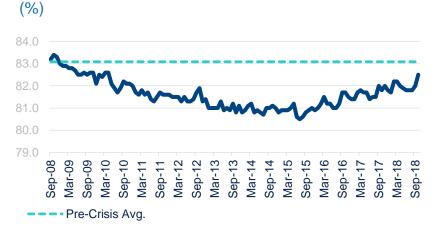
Labor market: Prime age employment-to-population ratio surpasses pre-crisis average

Average Weekly Hours

(number & 5mcma)

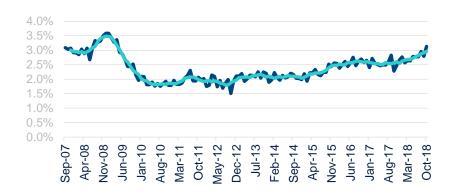


Prime Age Labor Force Participation



Average Hourly Earnings

(YoY% & 5mcma)



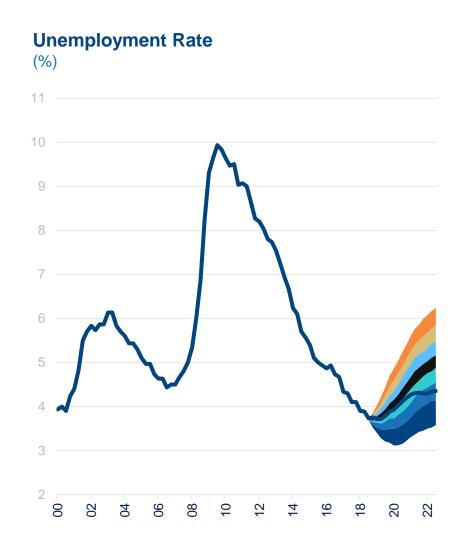
Prime Age Employment-to-Population



Source: BBVA Research & BLS

Labor market: UR trending at lowest level since December 1969





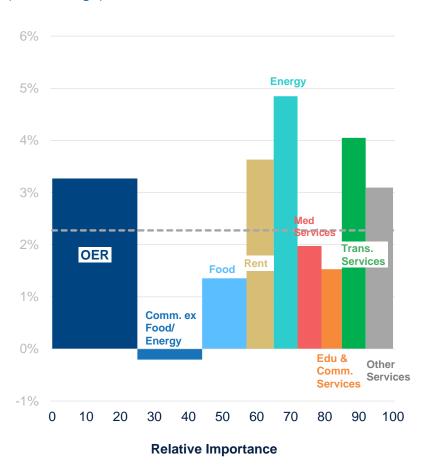
Inflation

- Headline CPI decelerated to 2.3% while core CPI held steady at 2.2%
- Core PCE growth consistent with the Fed objectives
- In September, probability of entering high-inflation regime was less than 0.8%
- Inflation expectations easing, as softer incoming data assuages fears of persistent rise in inflation
- Transportation services and shelter remain largest contributor to overall inflation, as food, energy and medical price pressures ease
- With additional tailwinds from an expansionary fiscal policy and tit-for-tat tariffs, we continue to expect core PCE will rise to 2.1% by 2019

Inflation: Core prices pressures easing, as home price momentum slows

Consumer Price Inflation

(12m change)



Core Inflation Measures

(12m change)

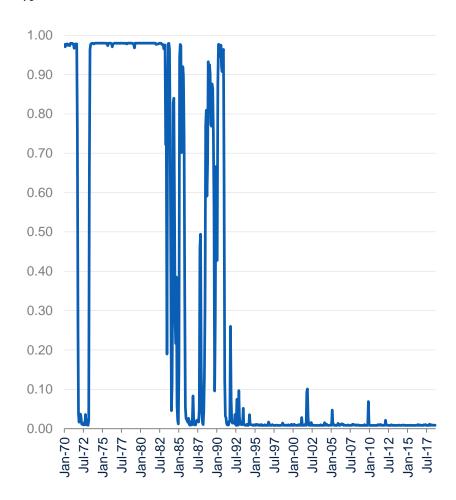


Inflation: Probability of inflation regime change edges down

Core PCE Price Index & Inflation Regimes Month-over-month %

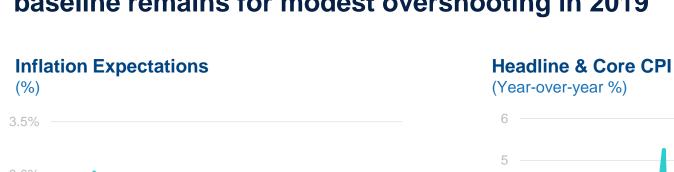


Inflation Regime Change Probability %

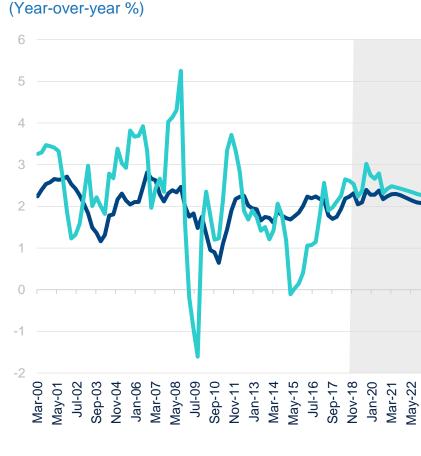


Source: BBVA Research & BLS

Inflation: Slight downside bias to inflation forecast in 2018, baseline remains for modest overshooting in 2019







Core ——Headline

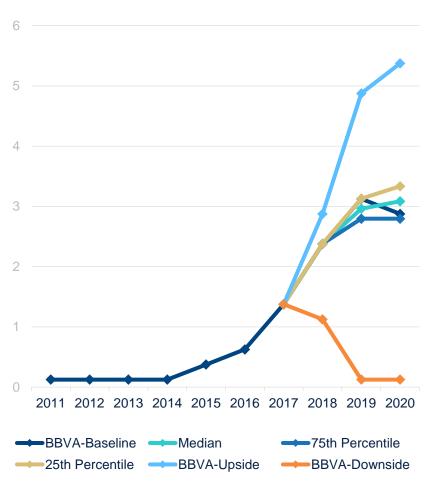
Source: BBVA Research & Haver Analytics

Monetary Policy: Federal Reserve

- The FOMC maintained the target range of the federal funds at 2.0%-2.25% at their November meeting
- The only significant revision to the statement was on business fixed investment, which has continued to moderate in spite of the incentives created by the tax reform
- Markets fully aligned with December rate hike while the probability of 3+ rate hikes in 2019 has increased after falling throughout the month of October (~47%)
- No change to Fed's outlook, which is in line with our baseline; biases to the downside likely growing
- We maintain Fed will raise rates one more time in December and three more times in 2019

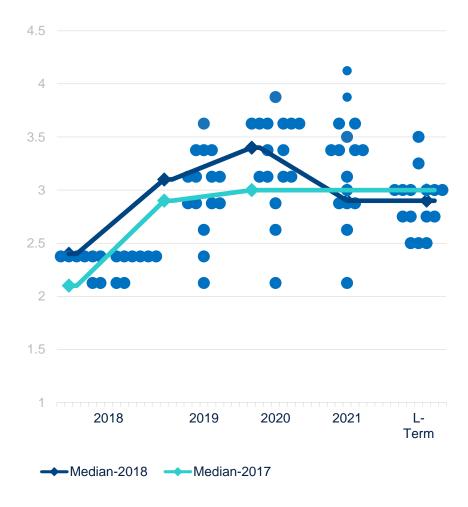
Fed: No change to outlook, two rate increases this year and 3 rate increases next

BBVA & Dealers Projections of Fed Funds (%, Effective)



FOMC Projections of Fed Funds

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



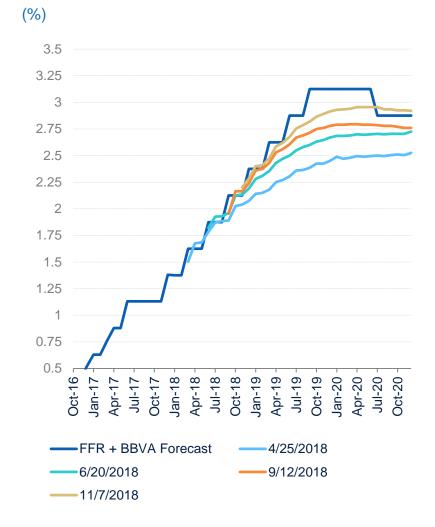
Source: BBVA Research & FRB

Monetary policy: Market probability of additional increase in Dec at 100%, 3+ hikes in 2019 at 47%





Fed Funds Futures & BBVA Baseline

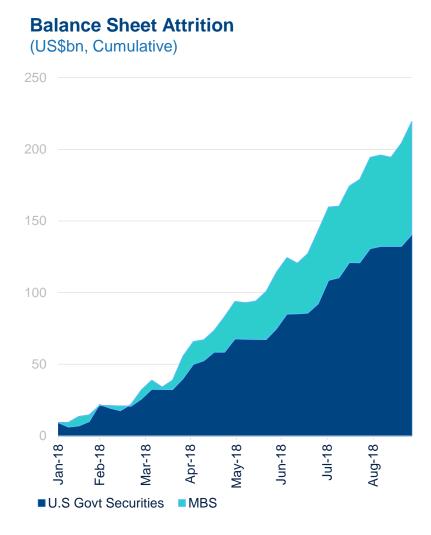


Source: BBVA Research & Bloomberg

Monetary Policy: Balance sheet attrition gaining







Source: BBVA Research & FRB

Interest Rates

- Continued upward momentum in short end of the yield curve, as markets expecting more rather than less monetary policy tightening
- 10-yr Treasury yields surpassed 3.2% for the first time since 2011
- Greater clarity on domestic policy making, and less accommodative monetary policy abroad should encourage further decompression of the term-premium
- Baseline assumes 10-year Treasury yield at 3.1% by year-end 2018 and 3.6% by year-end 2019
- Bias tilting slightly to the upside
- Term premium decompression has slowed the yield curve flattening

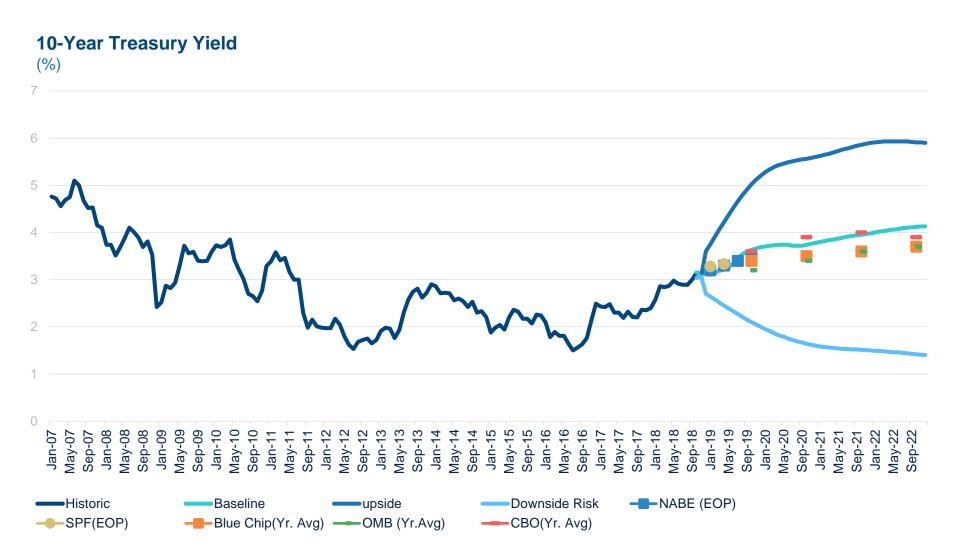
Interest rates: Term premium decompression and inflation expectations pushing 10-year Treasury above 3.2%

10-Year Treasury Yield Decomposition



Source: BBVA Research, ACM & Haver Analytics

Interest rates: Greater clarity on domestic policy making and monetary policy support modest upside



Interest rates: Threat of yield curve inversion moderates, as slope edges up with rise in long-term rates



(Bp)



Yield Curve



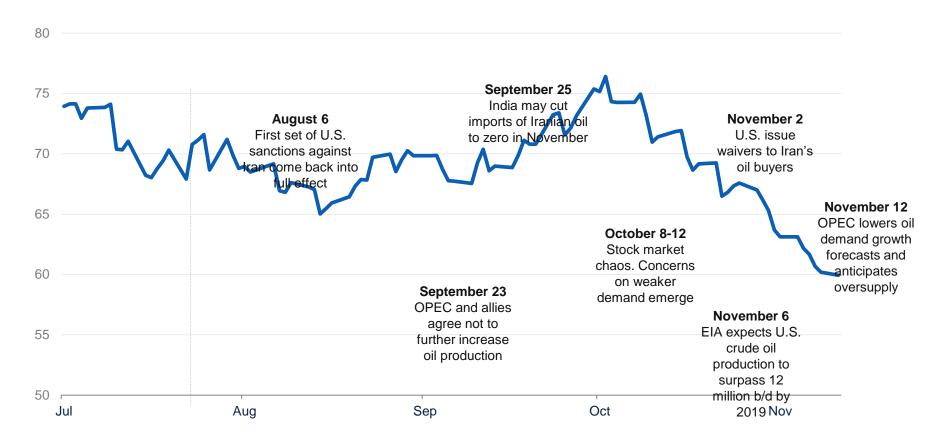
Energy Prices

- Growing global supply and U.S. waivers to buyers of Iranian crude have caused prices to go down
- U.S. production remains strong and is expected to reach a record 12 million b/d threshold next year
- Demand supported by China, India and the U.S.; however, risks are tilted to the downside
- We maintain our forecasts of convergence to long-term equilibrium around \$60/b
- Elevated uncertainty around long-term equilibrium: lagged effect of subpar global CAPEX, protectionism, alternative energy sources, EM convergence, EVs, climate change, efficiency and technology

Oil prices quickly fell into bear market...

WTI Crude oil prices July to November 2018

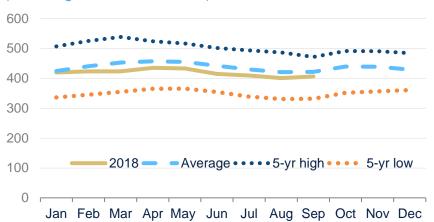
(\$ per barrel, 2018)



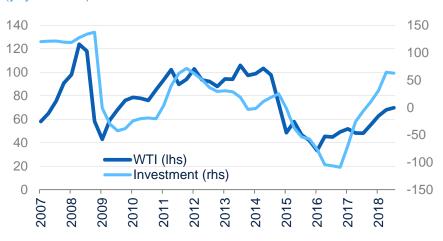
U.S. production continues to reach record heights

U.S. Crude oil inventories

(Excluding SPR, million barrels)



U.S. Real private investment in E&P (yoy \$billion)



WTI Midland-Cushing differential

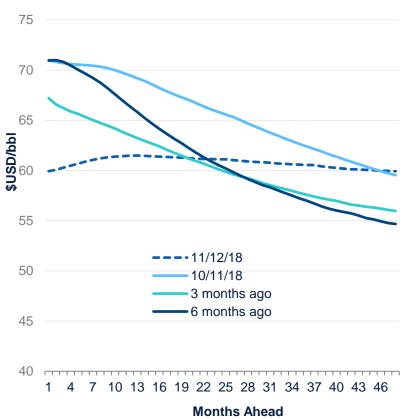


U.S. Estimated crude oil production



Analysts and future markets have lowered their expectations

WTI Futures (\$ per barrel)



WTI prices forecast (\$ per barrel)

	BBVA Research	BBVA Research (2Q18)	Bloomberg Survey (as of Nov. 9)	EIA (STEO, Nov.)	Rystad Energy (as of Nov. 9)
2017	50.9	50.9	50.9	50.9	50.9
2018	67.9	65.9	67.8	66.8	68.0
2019	67.5	65.1	68.4	64.9	73.0
2020	61.2	61.2	66.1		76.0
2021	58.0	58.1	64.9		56.0
2022	57.7	57.7	62.1		58.0



Source: BBVA Research and Bloomberg

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	2.1	1.6	1.5	1.4
Gross Investment	0.9	1.6	1.1	0.9	8.0	-0.2	0.8	0.9	0.9	0.9	0.8	0.7
Non Residential	1.0	1.2	0.5	0.9	0.3	0.1	0.7	0.9	0.9	0.8	8.0	0.7
Residential	0.0	0.3	0.3	0.1	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Exports	0.9	0.5	0.5	0.6	0.1	0.0	0.4	0.6	0.5	0.6	0.7	0.7
Imports	-0.9	-0.5	-0.3	-0.9	-1.0	-0.3	-0.8	-0.9	-1.0	-0.9	-0.9	-0.9
Government	-0.7	-0.4	-0.5	-0.2	0.3	0.3	0.0	0.3	0.4	0.3	0.1	0.1
Unemployment Rate (%, average)	8.9	8.1	7.4	6.2	5.3	4.9	4.4	3.9	3.8	4.1	4.2	4.3
Avg. Monthly Nonfarm Payroll (K)	174	179	192	250	226	195	182	209	188	157	126	105
CPI (YoY %)	3.1	2.1	1.5	1.6	0.1	1.3	2.1	2.5	2.6	2.5	2.4	2.3
Core CPI (YoY %)	1.7	2.1	1.8	1.7	1.8	2.2	1.8	2.2	2.2	2.3	2.3	2.1
Fiscal Balance (% GDP, FY)	-8.4	-6.8	-4.1	-2.8	-2.4	-3.2	-3.5	-4.2	-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	-2.5	-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	6.0	5.3	5.4	5.6	5.7
10-Yr Treasury (% Yield, eop)	1.98	1.72	2.90	2.21	2.24	2.49	2.40	3.12	3.69	3.78	3.98	4.13
Brent Oil Prices (dpb, average)	111.3	111.7	108.7	99.0	52.4	43.6	54.3	73.9	72.7	64.9	60.9	60.0

Economic Scenarios

Probability (%)	Current	Previous
Upside	10	10
Baseline	60	75
Downside	30	15

Macro Scenarios

	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	2.7
Downside	1.8	2.5	2.9	1.6	2.2	2.8	1.2	-0.7	1.8	2.1
UR	7.4	6.2	5.3	4.9	4.4	3.9	3.8	4.1	4.2	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	3.9	4.6	6.2	6.6	5.8
СРІ	1.5	1.6	0.1	1.3	2.1	2.5	2.6	2.5	2.4	2.3
Upside	1.5	1.6	0.1	1.3	2.1	2.5	3.2	3.5	3.6	3.8
Downside	1.5	1.6	0.1	1.3	2.1	2.4	1.4	1.1	1.1	1.3
Fed [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	3.12	3.69	3.78	3.98	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	1.9	2.1

Subject to revision without notice

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