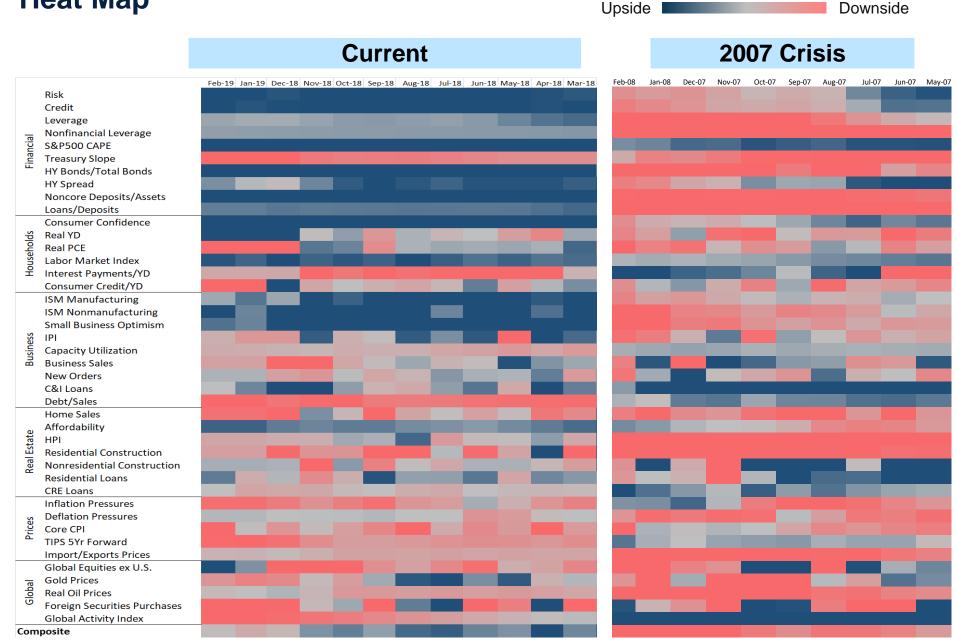


Highlights

- Models suggest more than 50% probability of recession within the next 24 months
- ■Global, housing and business debt represent major red flags
- Fed's strong dovish bias a response to risks
- Markets digesting the balance between weaker outlook vs. lower expected interest rates
- Economic fundamentals for households and financial institutions remain solid
- Weak activity and higher financial stress abroad

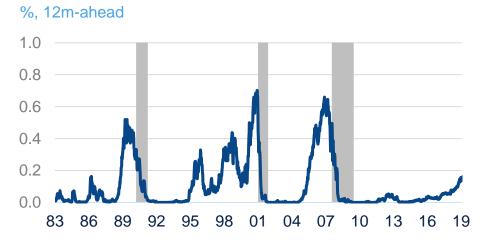
Downside

Heat Map



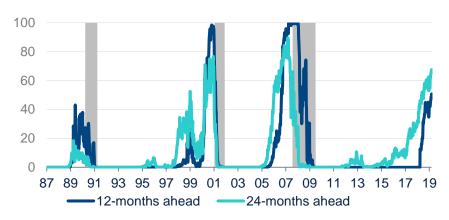
BBVA U.S. Recession Probability

Treasury Spread Term-Premium Adjusted



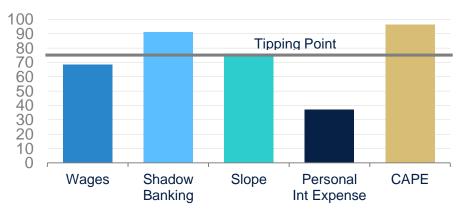
Recession Probability Factor

%, 12-months & 24-months ahead



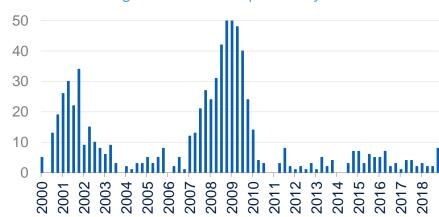
Risk Factors

Percentile Rank



Regional Conditions

of States with greater than 30% probability



Source: BBVA Research

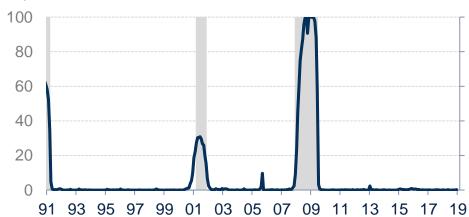
Recession Probability

Treasury Spread Model

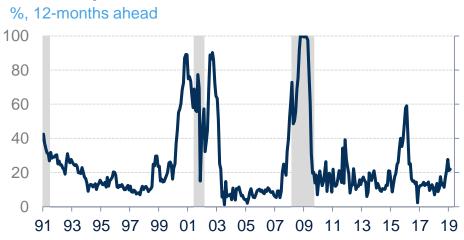


Dynamic-Factor Markov-Switching Model





Credit Spread Model



Survey of Professional Forecasters

%, Decline in real GDP next quarter



Source: BBVA Research, Federal Reserve Board, FRBNY, FRBSL, FRBP and Haver

Credit Cycle and Recession Timing Indexes

Risk of systemic crisis remains low. Timing of next recession is narrowing

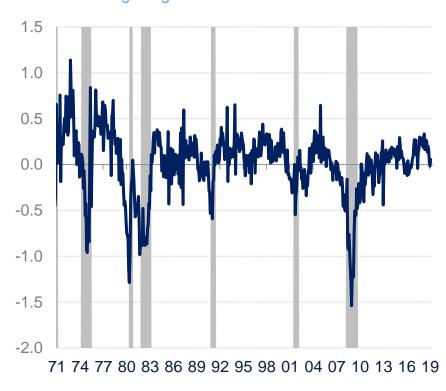
BBVA Credit Cycle Risk Index

Above 0 = above average risk



BBVA Recession Timing Index

Above 0 = longer lag to recession



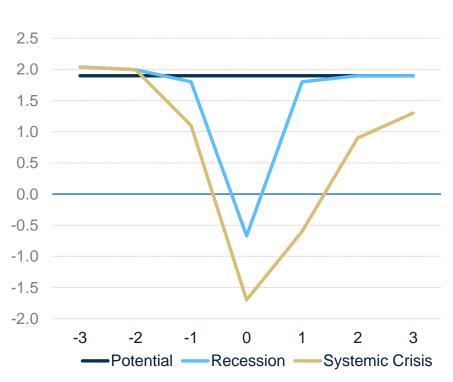
Source: BBVA Research and Haver

Scenarios

A painfully slow U-shape recovery is more likely under less effective monetary and fiscal response

Recession Severity

Real GDP Growth; t=0 Year of Recession



Outcome	Probability 2019-2021	t	t+1
No recession	60%	2.1 (Baseline avg. 2019-21)	
Recession	40%	-0.7	1.8
Systemic crisis	4%	-1.7	-0.6

Source: BBVA Research

Risk Matrix

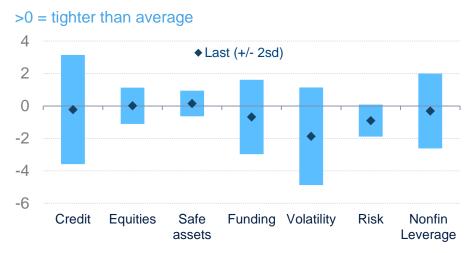


Source: BBVA Research; This assessment is not static and can change significantly depending on future developments

^{*} Includes macroeconomic conditions in China, Euro Area, Brexit, Emerging Markets ** Includes non-economic factors: Climate, Cybersecurity, Pandemic, Terrorism, Migration, etc.

Financial Markets

Financial Stress Indicators

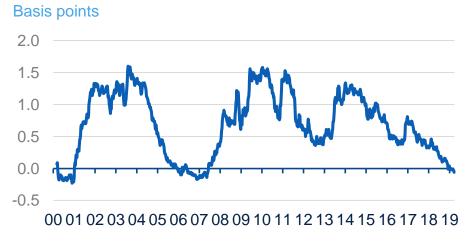


Financial Stress Index

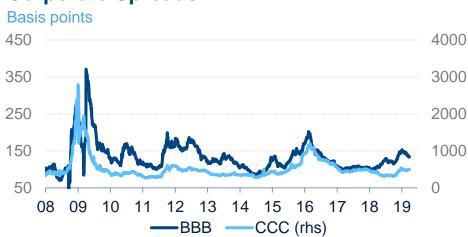
Above 0 = above average stress



Treasury Yield Curve 5Y Minus 2Y



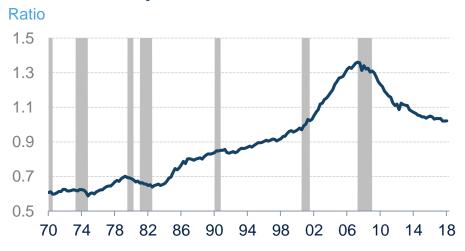
Corporate Spreads



Source: BBVA Research, OFR, KC Fed, R. Shiller, ICE and Haver

Households

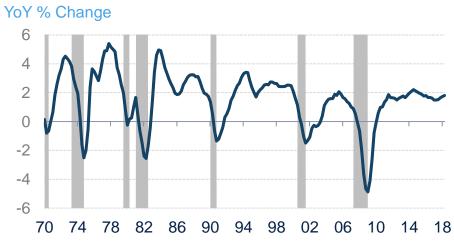
Liabilities/Disposable Income



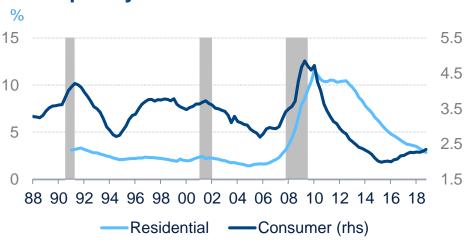
Interest Payments/Personal Income



Nonfarm Payroll



Delinquency Rate



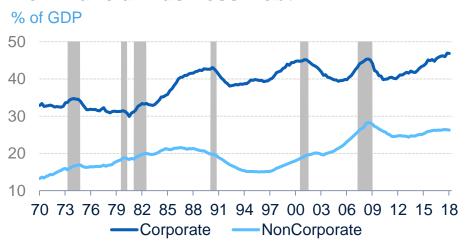
Source: BBVA Research, Federal Reserve, BLS, BEA and Haver

Businesses

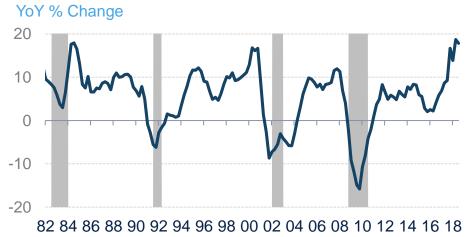
Nonfinancial Corporate Profits

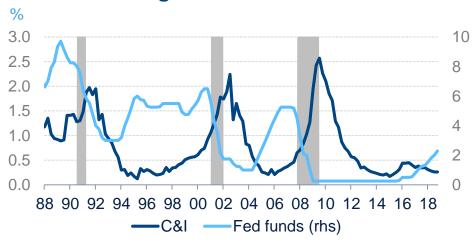


Nonfinancial Business Debt



Nonfinancial Corporate Short-term Liabilities C&I Loan Charge-Off Rate & Fed Funds





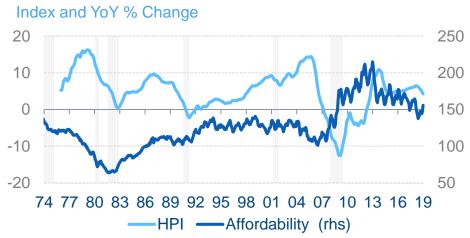
Source: BBVA Research, Federal Reserve, BEA and Haver

Real Estate

Housing Starts and New Home Sales



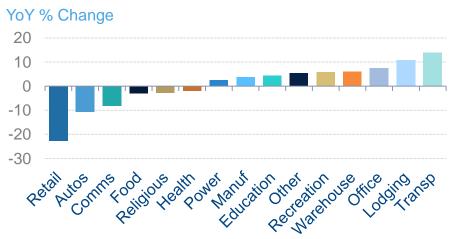
Housing Affordability and Prices



BBVA Real Estate Prices Misalignment



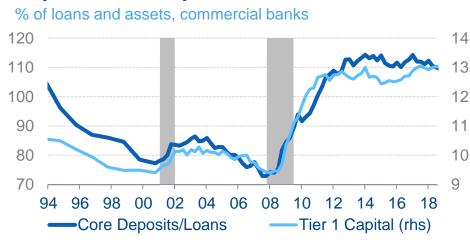
Nonresidential Construction



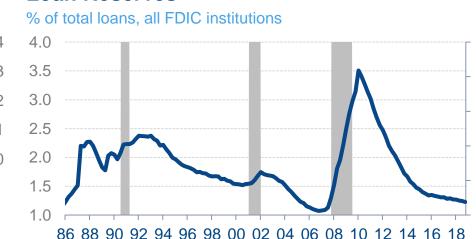
Source: BBVA Research, Federal Reserve, Census, BEA and Haver

Financial Sector

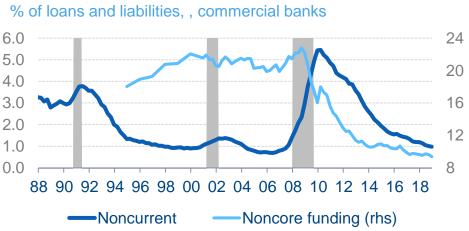
Deposits and Capital Ratios



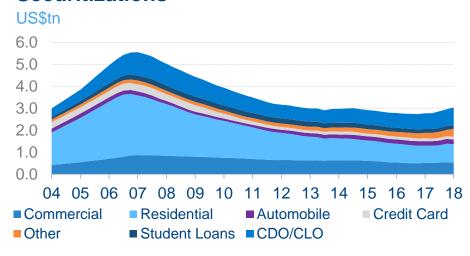
Loan Reserves



Noncurrent Loans and Funding



Securitizations

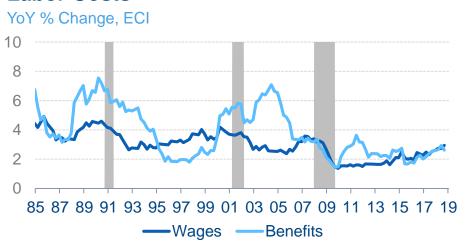


Excludes Agency MBS and CMO

Source: BBVA Research, FDIC, Federal Reserve and Haver

Prices

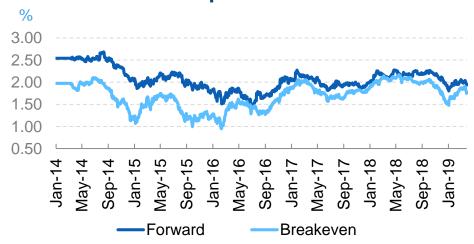
Labor Costs



Nonlabor Costs per Unit of Real GDP

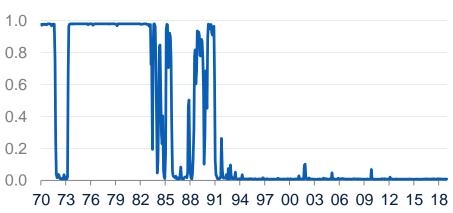


Market Inflation Expectations



BBVA Inflation Regime Probability





Global Conditions

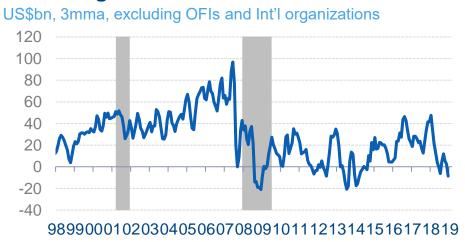
Advanced Economies Financial Stress



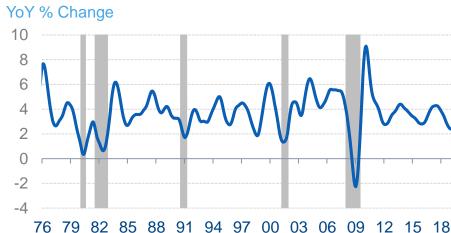
Emerging Markets Financial Stress



Net Foreign Purchases of U.S. Securities



Global Activity Leading Indicator



Source: BBVA Research, Treasury, OECD and Haver

For more information

Recent economic briefs and presentations:

All things come to an end, but is the U.S. headed for recession?

Corporate debt in the twilight of the credit cycle

Just what the doctor ordered: real-time recession forecasts

Recession risk monitor January 2019

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