

U.S. Auto Sales Chartbook

May 2021



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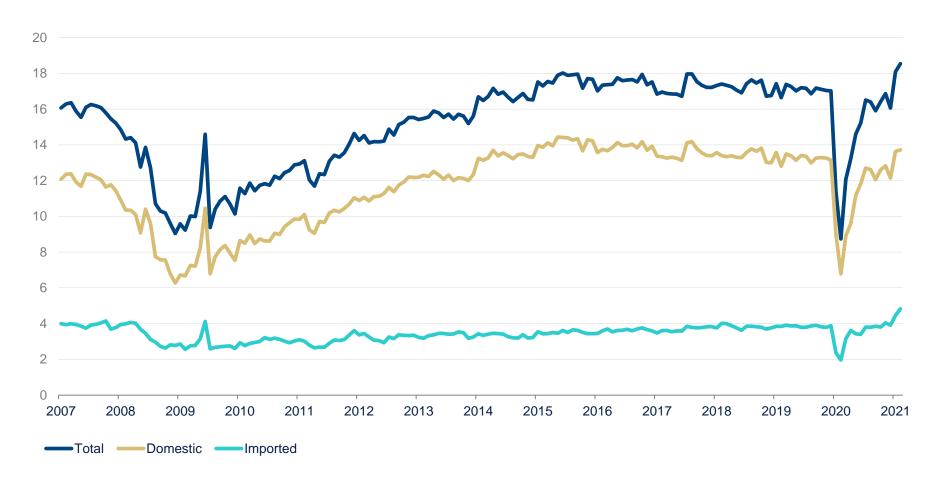
Main messages

- Auto sales rebounded 12.2% yoy in 1Q21, averaging 17 million units (SAAR). Meanwhile, April sales reached 18.5 million units (SAAR), the highest in 15 years.
- Two rounds of stimulus checks, low interest rates, home price appreciation, higher stock prices, access to credit, and robust trade-in values of used vehicles spurred consumers who delayed the purchase of new vehicles due to the pandemic.
- A shortage of computer chips caused by severe weather in Texas and a fire at Japan's Renesas Semiconductor Manufacturing Co., disrupted the supply of new vehicles. Supply constrains are likely to remain through the summer.
- As a result, a portion of new-vehicle demand shifted to the used-vehicle market, exerting significant upward pressures on used-vehicle prices.
- Strong consumer demand and supply bottlenecks have benefited auto retailers that were able to compensate the shortage of new-vehicles with higher volumes of used-cars.
- We expect sales of new vehicles to average 17 million units (SAAR) in 2021 supported by fiscal and monetary stimulus, strong economic growth and pent up demand.
- Electric vehicle sales increased 20% yoy in 4Q20. The outlook for EVs is positive as the federal government seeks to invest \$174bn to build a network of 500K charging stations, replace the federal fleet, 50K transit vehicles and 10% of school buses with EVs, and offer rebates and tax incentives to consumers.



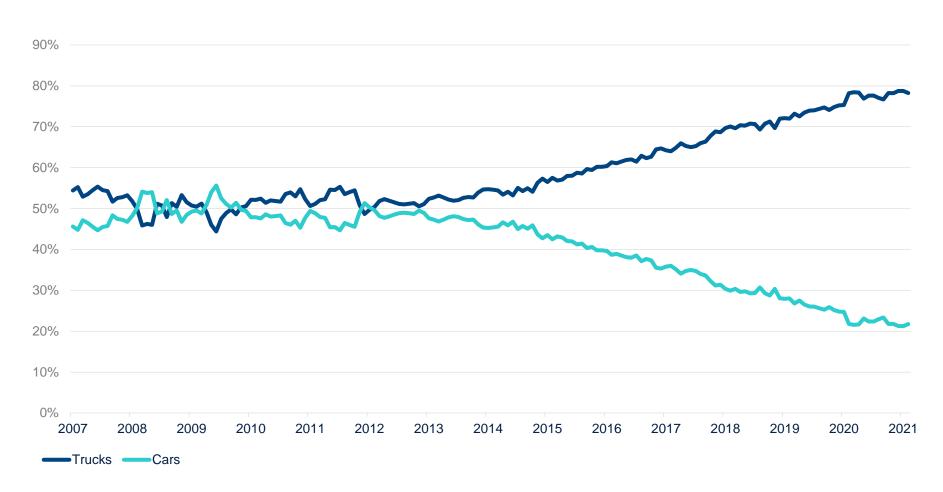
U.S. TOTAL LIGHT WEIGHT VEHICLE SALES

(SAAR, MILLION UNITS)



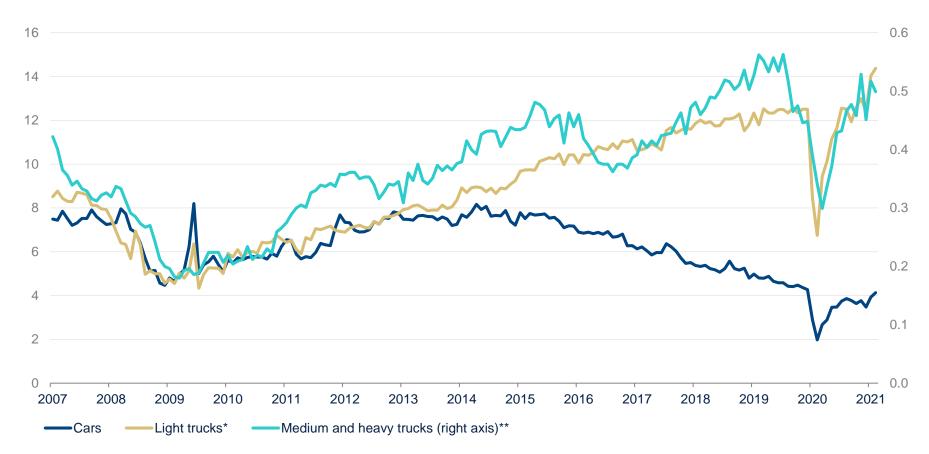
U.S. TOTAL VEHICLE SALES

(SHARE OF TOTAL)



U.S. TOTAL VEHICLE SALES

(SAAR, MILLION UNITS)

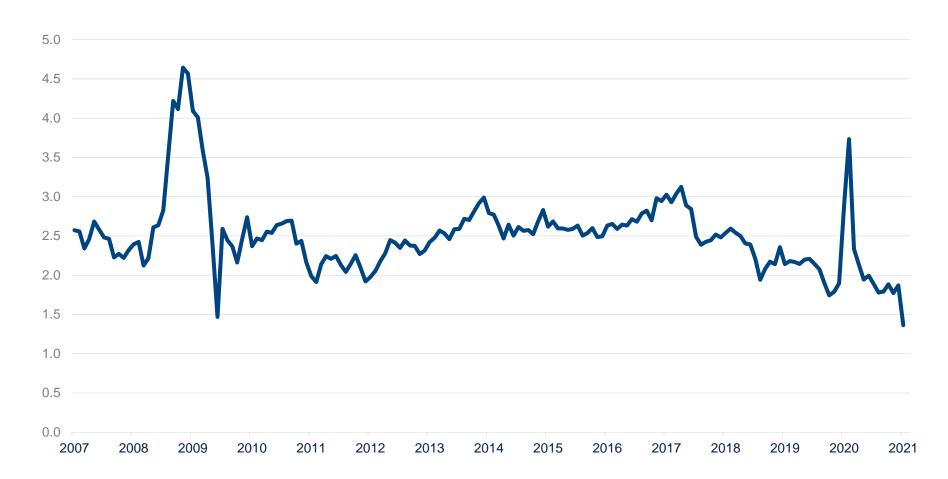


^{* 0-14,000} pounds GVWR.

^{**14,001} pounds GVWR and over.

U.S. DOMESTIC AUTO INVENTORY/SALES RATIO

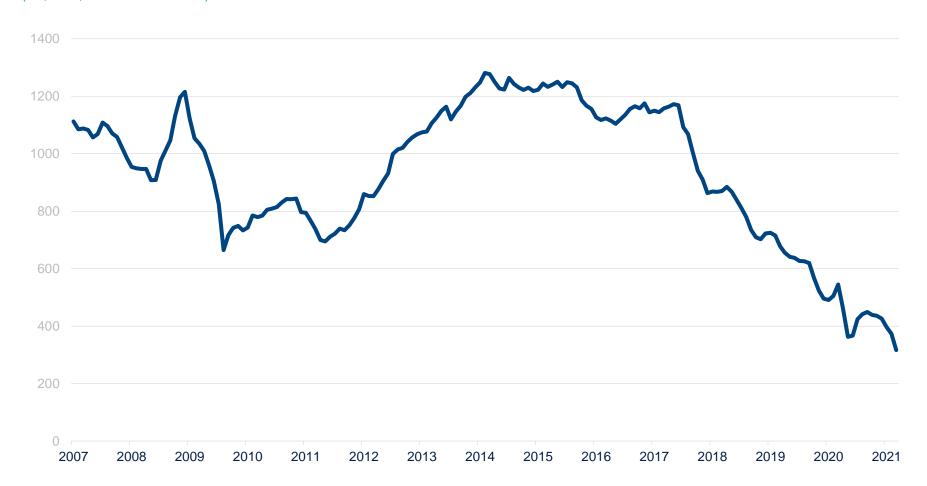
(SEASONALLY ADJUSTED)



Inventories

U.S. DOMESTIC AUTO INVENTORIES

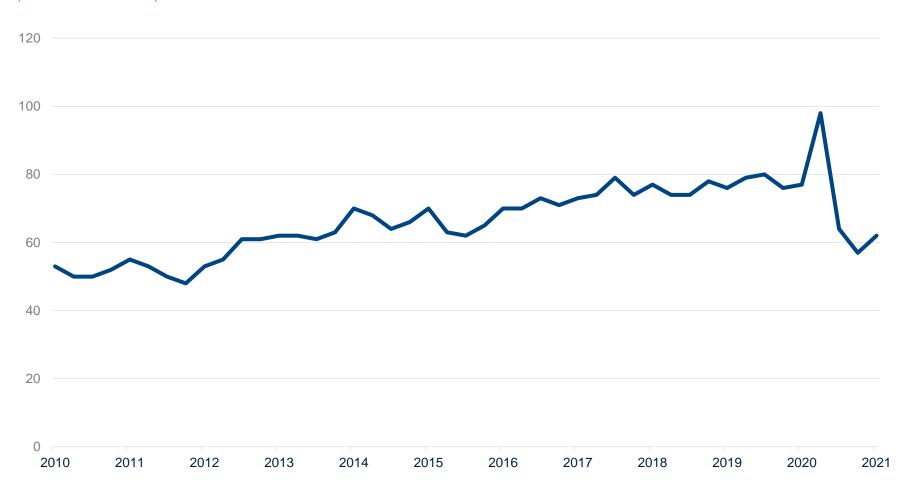
(SA, EOP, THOUSAND UNITS)



Days to turn

U.S. VEHICLE DAYS TO TURN

(SEGMENT AVERAGE)

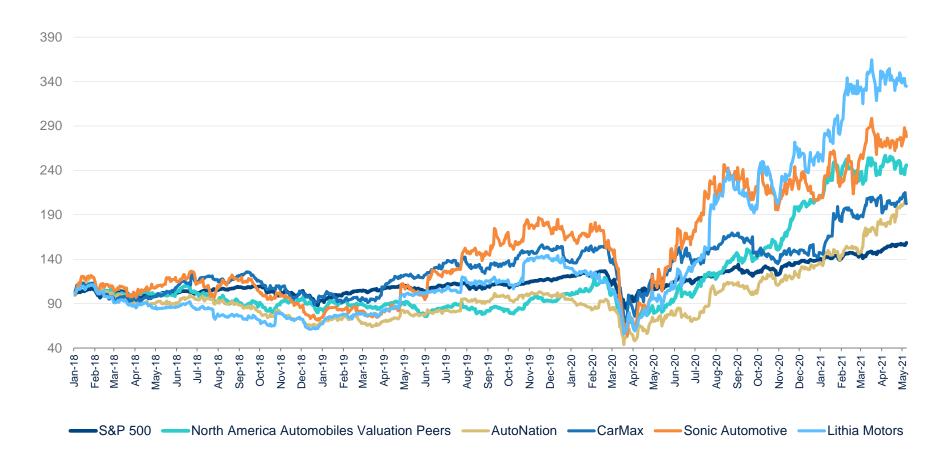


Source: Bloomberg with data from Edmunds.

Stock market

STOCK MARKET INDICATORS

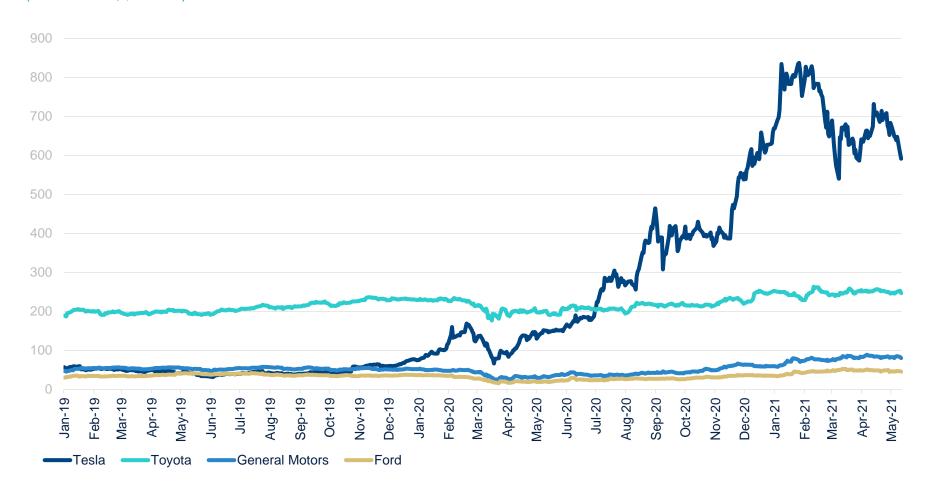
(INDEX, 1/1/2018 = 100)



Stock market

STOCK MARKET INDICATORS

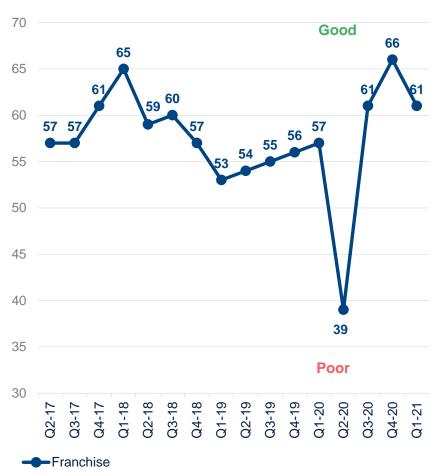
(MARKET CAP, \$BILLION)



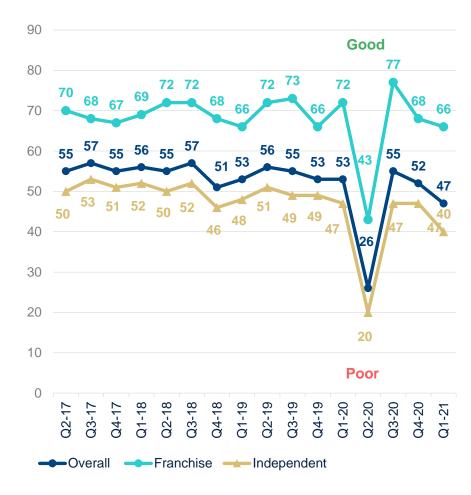
Source: BBVA Research and Bloomberg.

Dealers

HOW WOULD YOU DESCRIBE THE NEW-VEHICLE SALES ENVIRONMENT?



HOW WOULD YOU DESCRIBE THE CURRENT USED-VEHICLE SALES ENVIRONMENT?

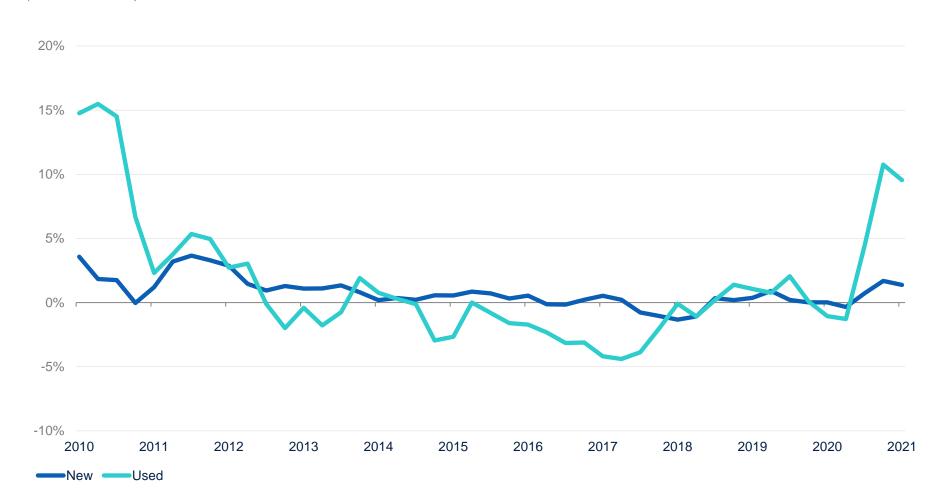


Source: Cox Automotive, Dealer Sentiment Index 1Q21.

Prices

U.S. CONSUMER PRICE INDEX: CARS AND TRUCKS

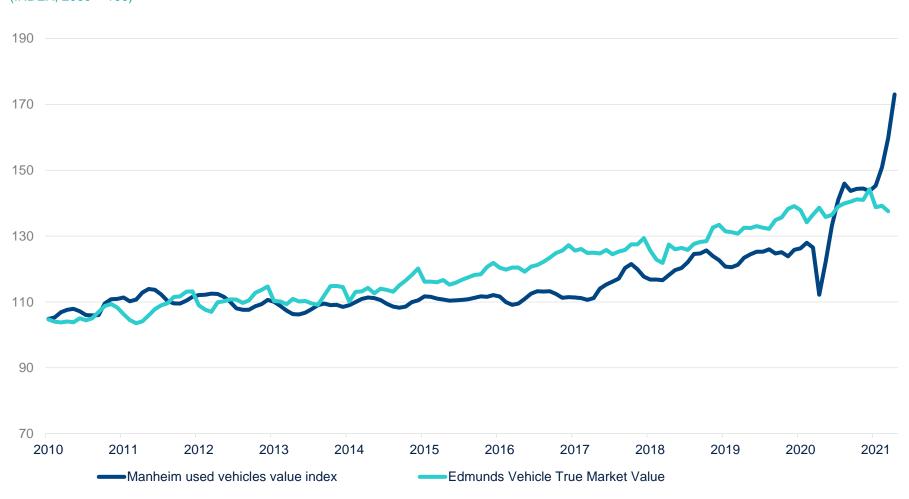
(YOY % CHANGE)



Prices

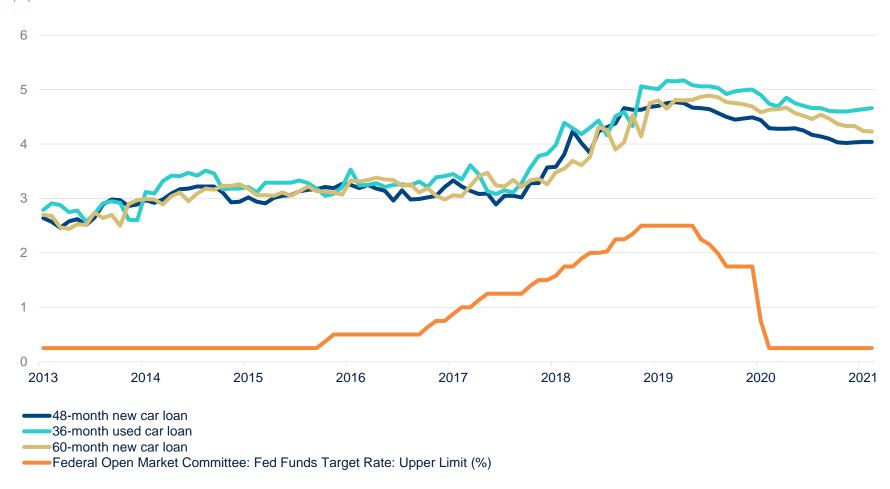
U.S. AUTO PRICES

(INDEX, 2009 = 100)



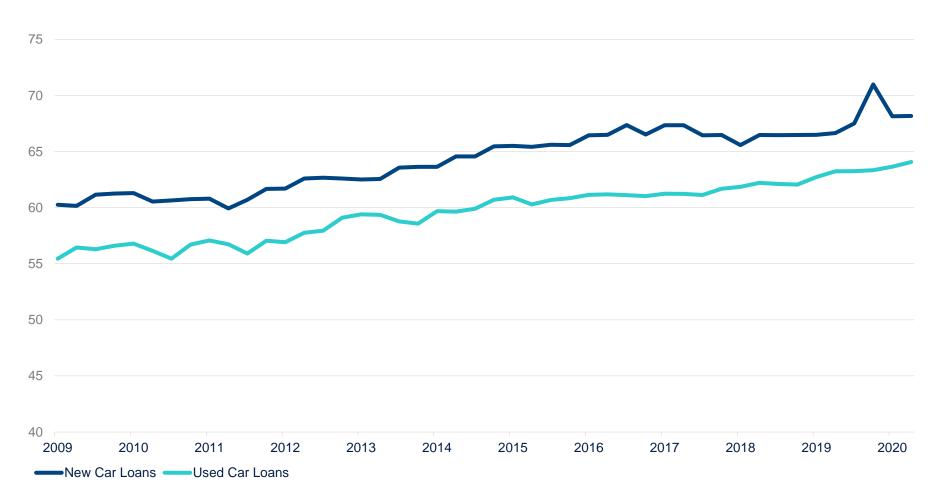
U.S. INTEREST RATES





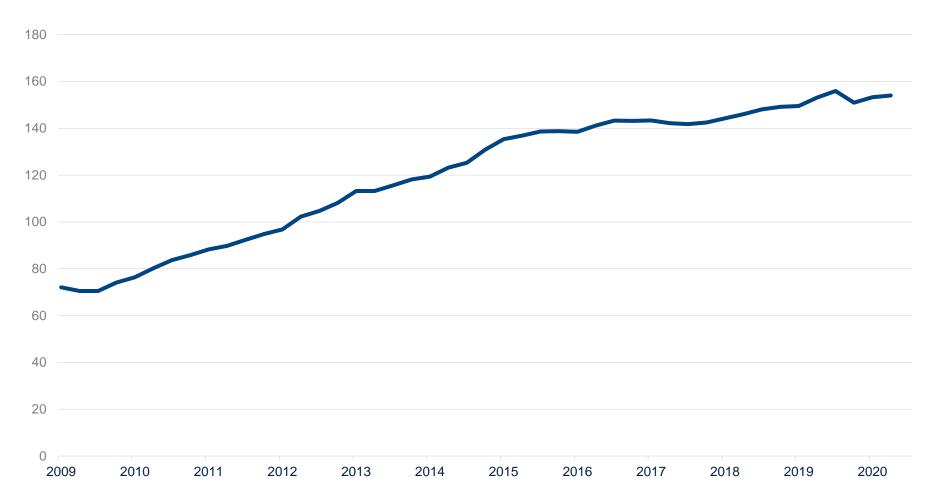
U.S. AUTO FINANCE COMPANY LOANS

(MATURITY, MONTHS)



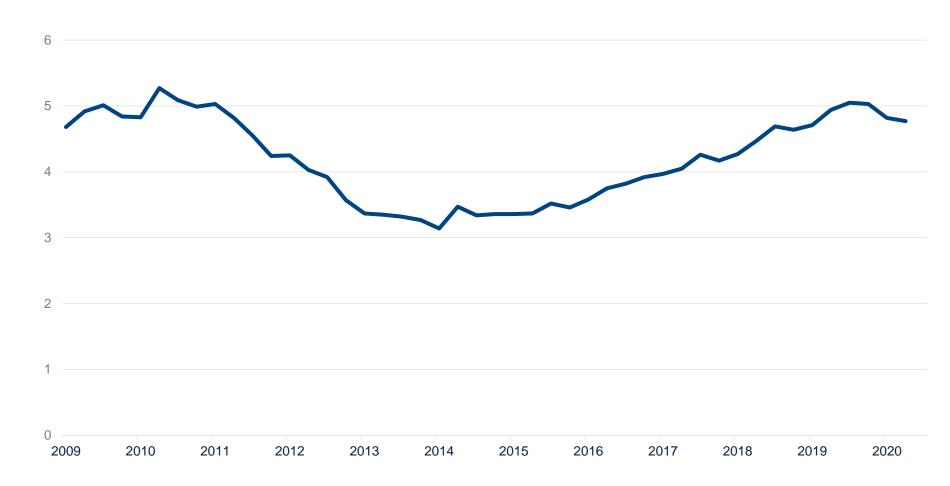
U.S. NEWLY ORIGINATED INSTALLMENT AUTO LOANS

(\$ BILLION, EOP, 4-QTR MOVING AVG.)



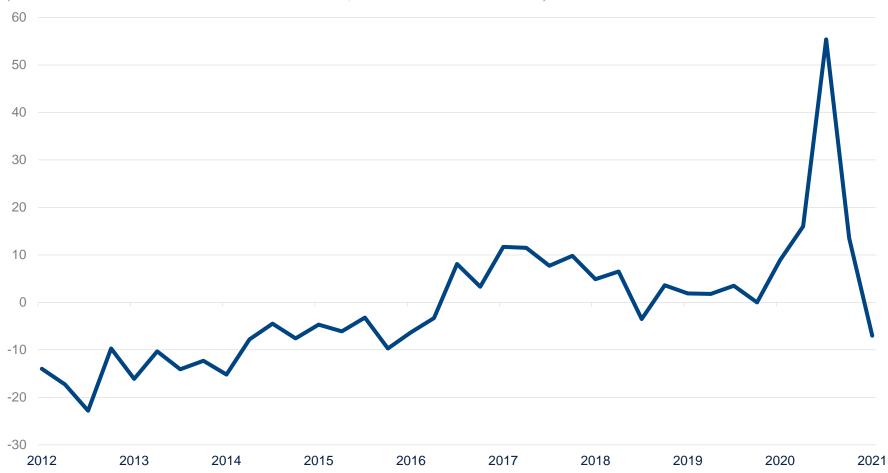
U.S. AUTO LOAN 90+ DAYS DELINQUENT

(% OF BALANCE)



U.S. OVER THE PAST THREE MONTHS, HOW HAVE YOUR BANK'S CREDIT STANDARDS FOR APPROVING APPLICATIONS FOR AUTO LOANS FROM INDIVIDUALS OR HOUSEHOLDS CHANGED?

(BANKS TIGHTENING STANDARDS FOR AUTO LOANS, NET PERCENTAGE BALANCE)

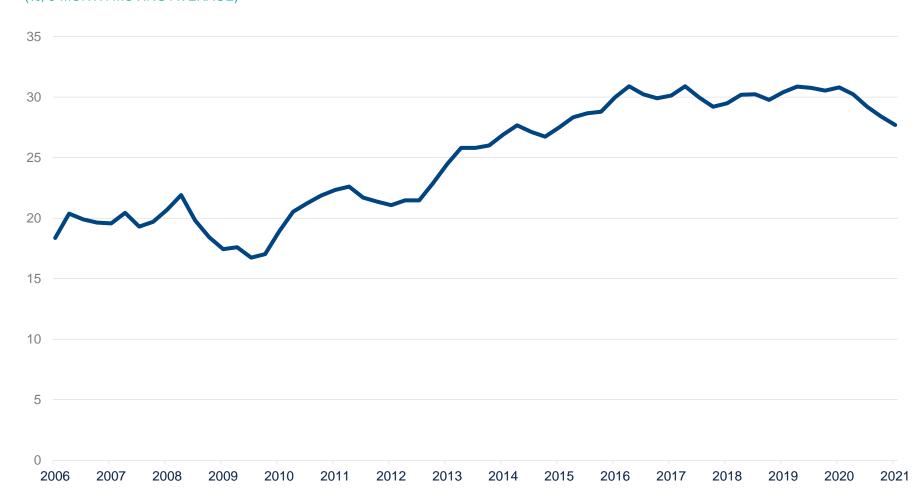


Source: Senior Loan Officer Opinion Survey on Bank Lending Practices, Board of Governors of the Federal Reserve System.

Leasing

U.S. LEASING PENETRATION RATE

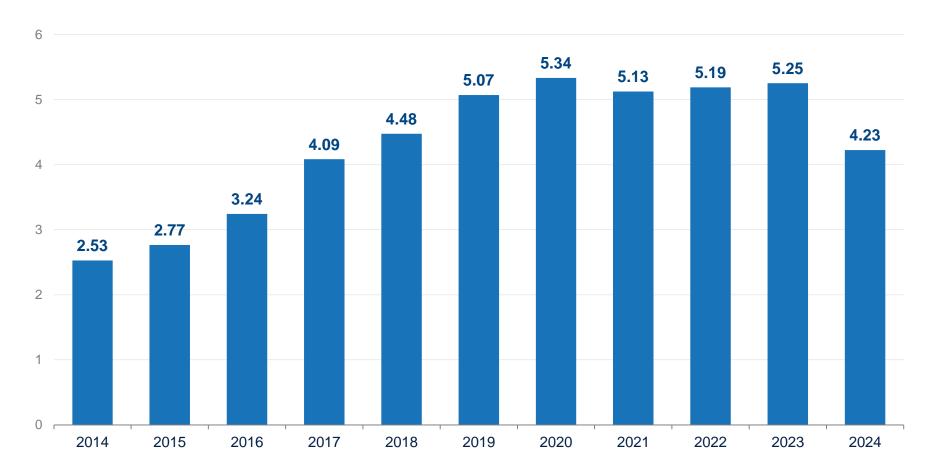
(%, 3-MONTH MOVING AVERAGE)



Leasing

OFF-LEASE RETURNS AND SUPPLY*

(MILLIONS UNITS)



^{*}Assumes 36-month lease terms. Source: Bloomberg and BBVA Research.

Gasoline

U.S. RETAIL GASOLINE PRICE

(AVERAGE CENTS PER GALLON)

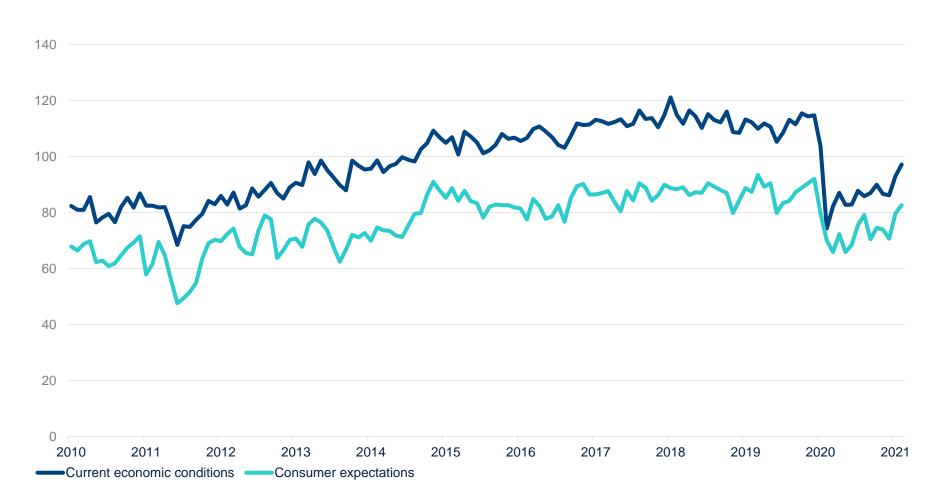




02

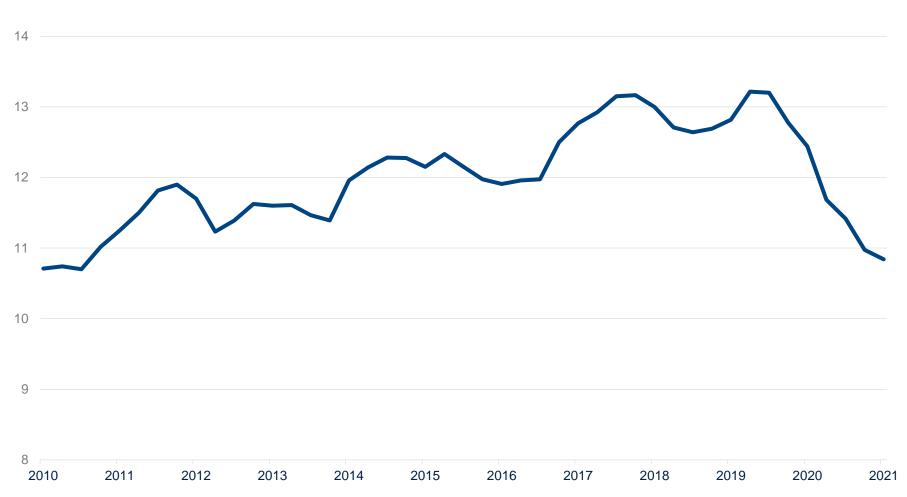
Consumers

UNIVERSITY OF MICHIGAN: CONSUMER SENTIMENT INDEX



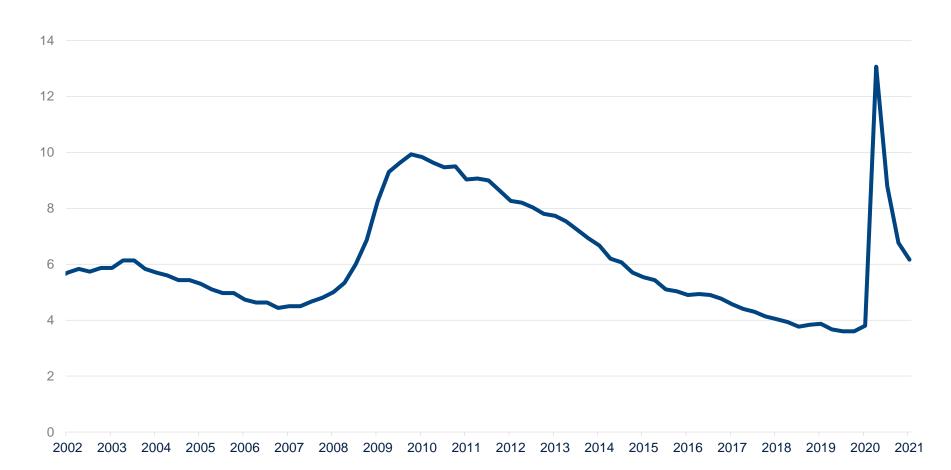
CONFERENCE BOARD: CONSUMER PLANS TO BUY A CAR WITHIN 6 MONTHS

(% OF RESPONDENTS)



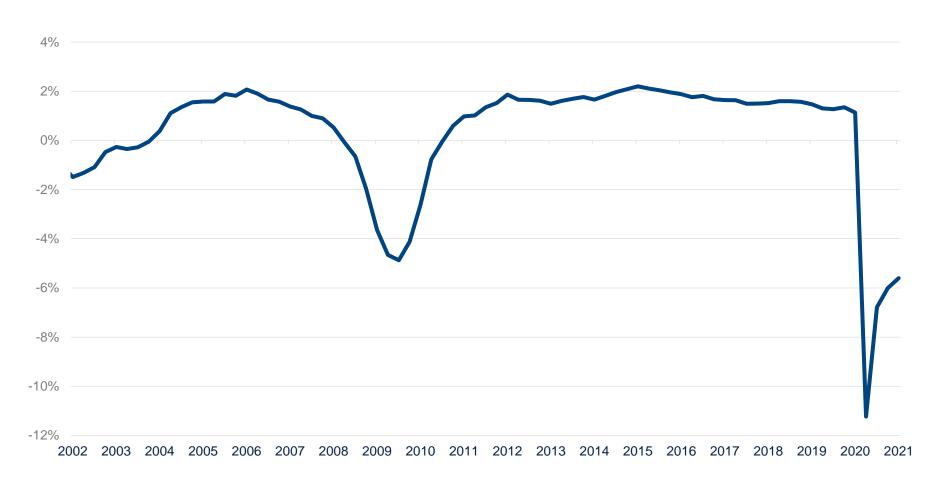
U.S. UNEMPLOYMENT RATE

(%)



U.S. NONFARM PAYROLL

(MONTHLY YEAR-OVER-YEAR CHANGE)



U.S. HOUSEHOLD EQUITY AND HOME PRICES

(QUARTERLY YEAR-OVER-YEAR CHANGE)



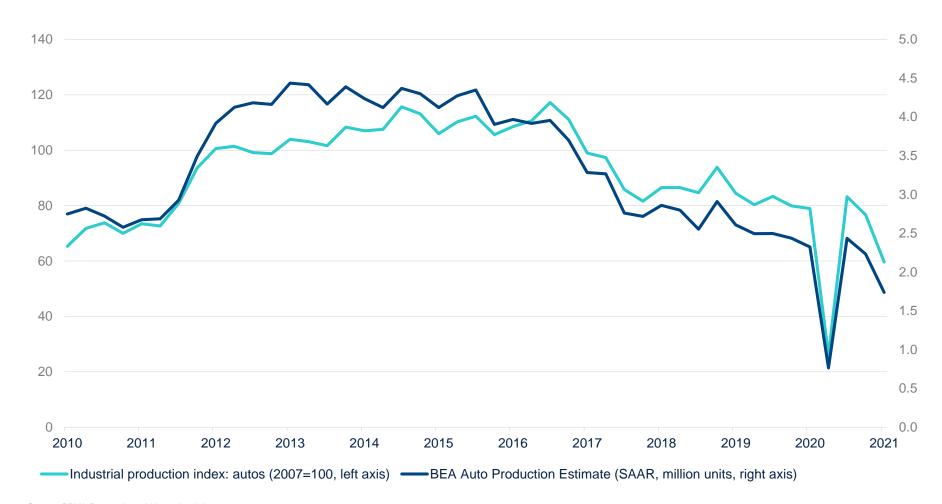


03

Production

Production

U.S. AUTO PRODUCTION



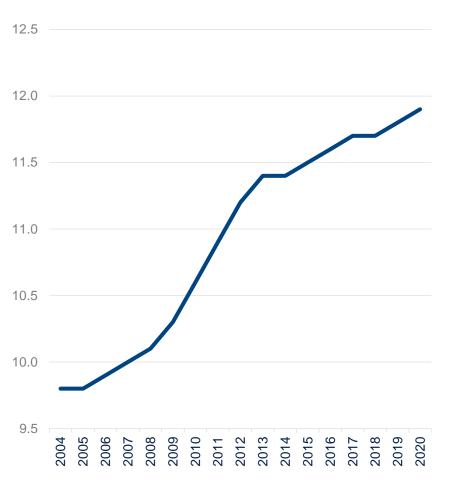


04

Structural

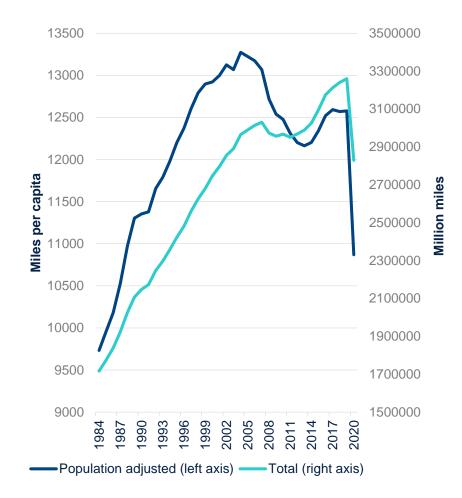
Fundamentals

MEAN AGE OF PASSENGER CARS IN OPERATION (YEARS)



VEHICLE MILES OF TRAVEL

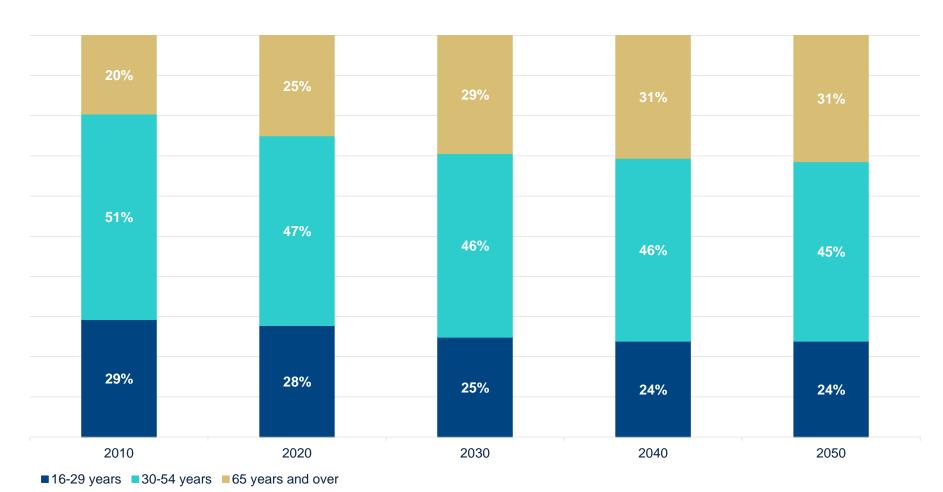
(TOTAL AND ADJUSTED BY POPULATION)



Demographics

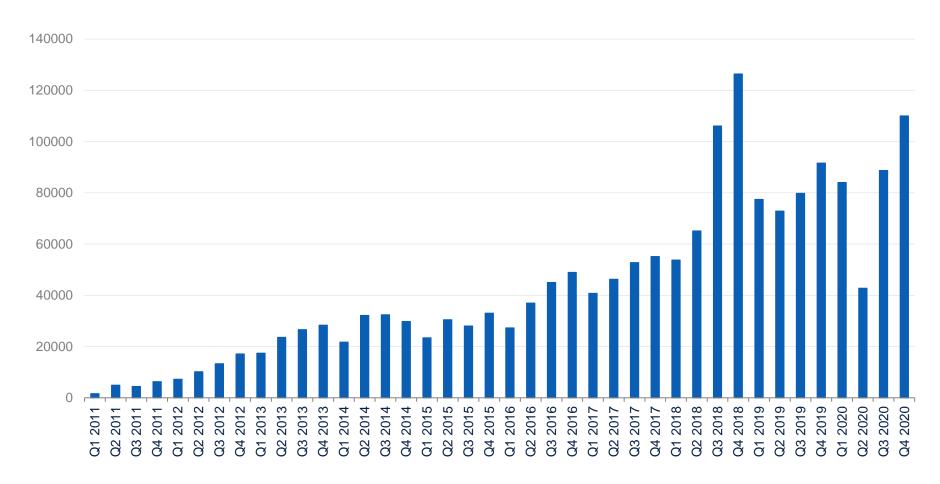
U.S. POPULATION PROJECTIONS BY AGE

(SHARE OF 16 & ABOVE)



Electric vehicles

U.S. ELECTRIC VEHICLE SALES* (UNITS)



^{*}Figures may be subjected to revision. Includes PHEV and BEV. Source: BBVA Research and Bloomberg New Energy Finance.



05

Forecast

Forecasts

	2016	2017	2018	2019	2020	2021	2022	2023
New-vehicle sales (millions units)	17.5	17.2	17.2	16.9	14.5	17.0	17.2	16.8
Real GDP growth (% change)	1.7	2.3	3.0	2.2	-3.5	6.2	5.1	3.7
Unemployment rate (% avg.)	4.9	4.4	3.9	3.7	8.1	5.6	4.3	3.7
Fed funds (%, eop)	0.75	1.50	2.50	1.75	0.25	0.25	0.25	0.50
5-year Treasuries (%, avg)	1.3	1.9	2.7	2.0	0.5	0.8	1.1	1.2

Source: BBVA Research



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