US

AUTO INDUSTRY

CHARTBOOK

NOVEMBER 2016



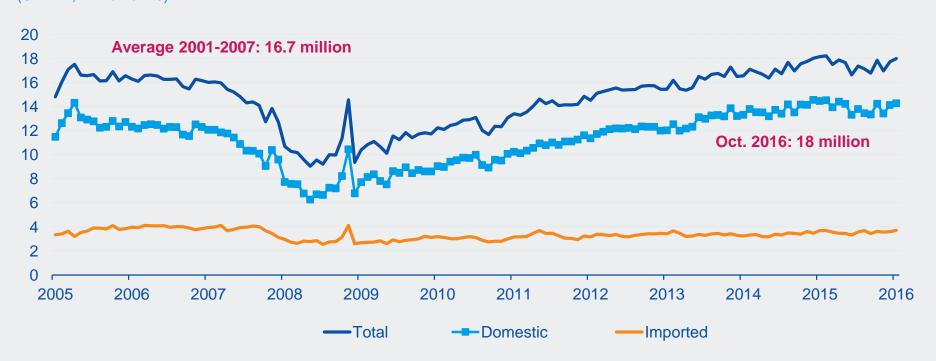
- Vehicle sales remain robust due to solid employment growth, low gasoline prices and low interest rates
- Demand continues to be biased towards light-trucks and away from cars
- Auto lending remains healthy; leasing continues to be an increasingly preferred form of financing, especially for luxury vehicles
- Potential of tax cuts under new administration should help boost auto sales, but this could be offset by the impact of higher interest rates
- Auto industry faces ongoing emphasis on reducing vehicle emissions along with increasing fuel economy/affordability of alternative vehicles
- However, there is uncertainty on the future of tax credits and policies impacting the growth of HEVs, PHEVs and BEVs
- Long-term demand for vehicles will be affected by an aging population, technology and the increasing importance of the sharing economy



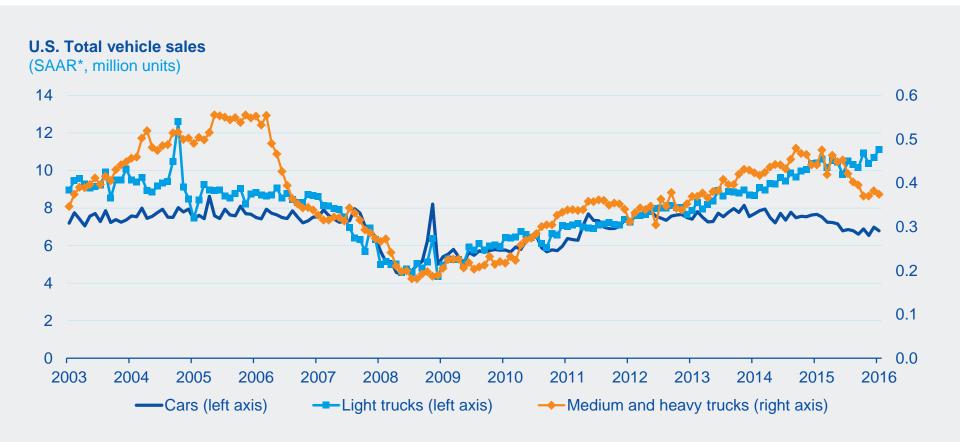


U.S. Total light weight vehicle sales

(SAAR*, million units)

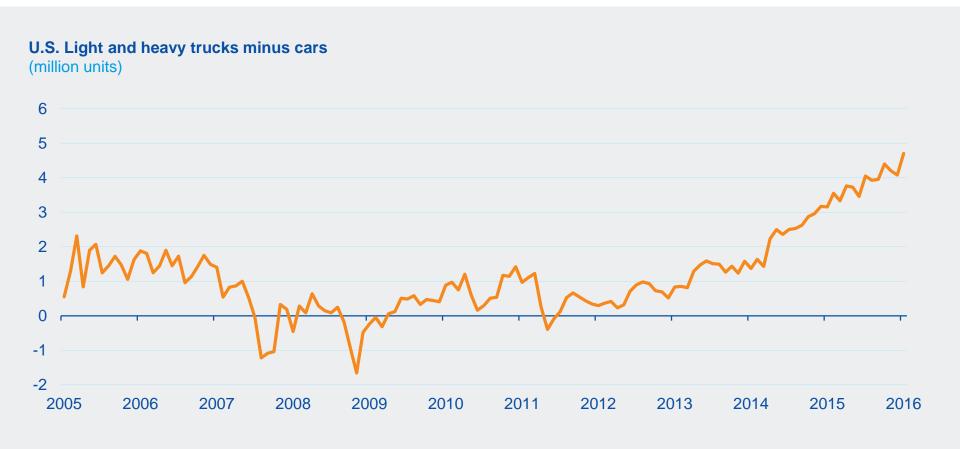






^{*}SAAR = seasonally adjusted annual rate Source: Haver Analytics

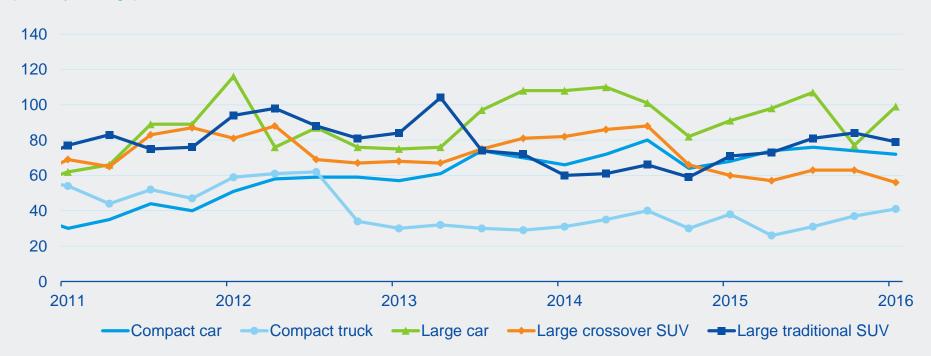




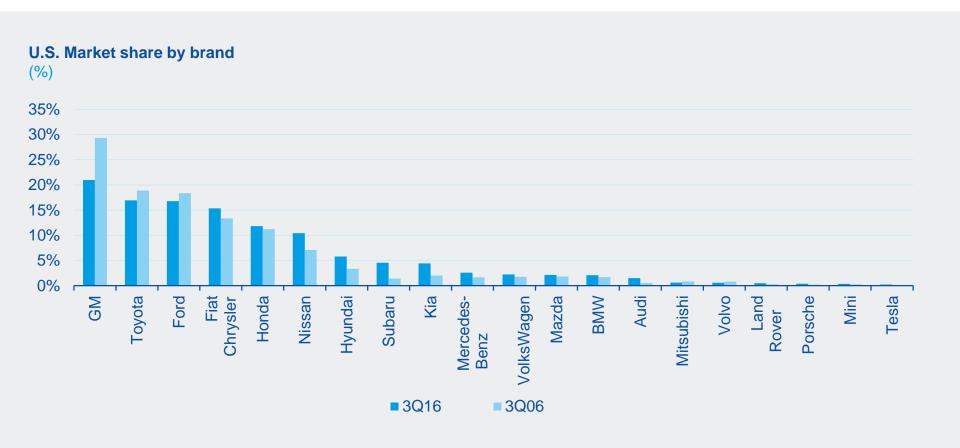


U.S. Vehicle days to turn

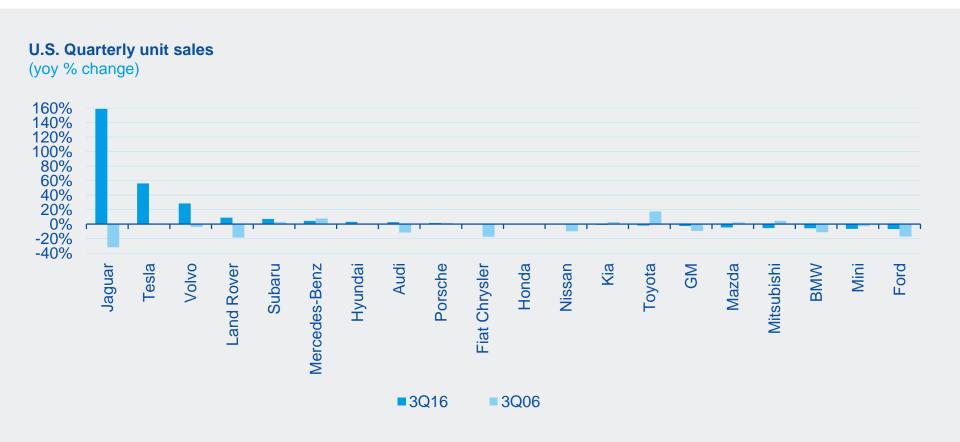






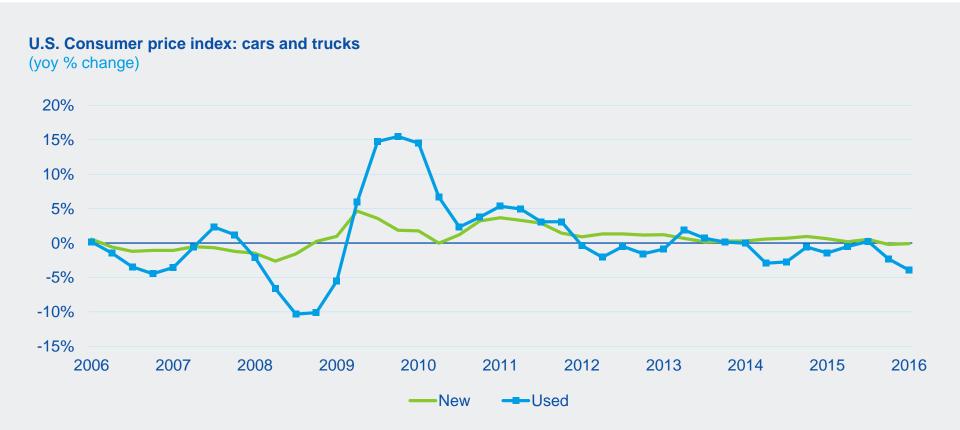








Prices



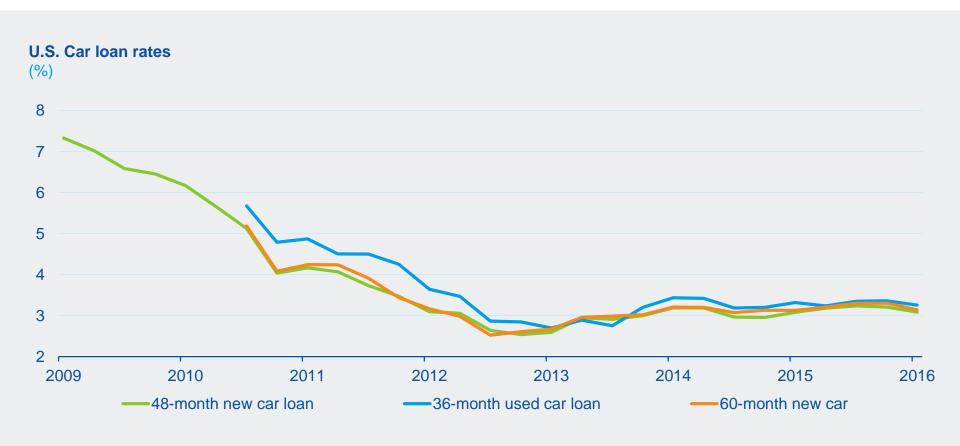


Prices

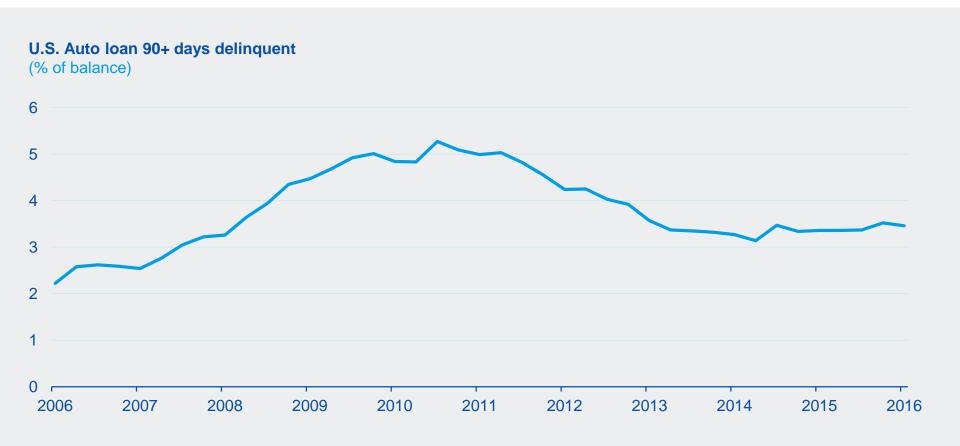
U.S. Auto prices







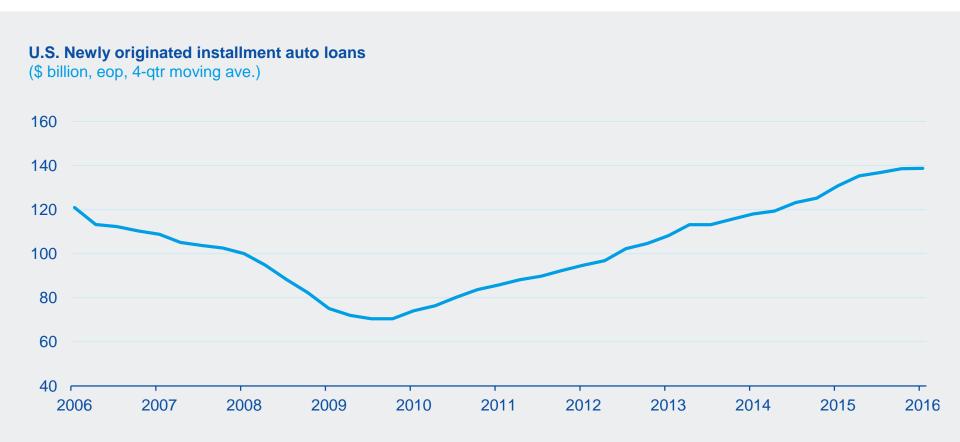














Gasoline







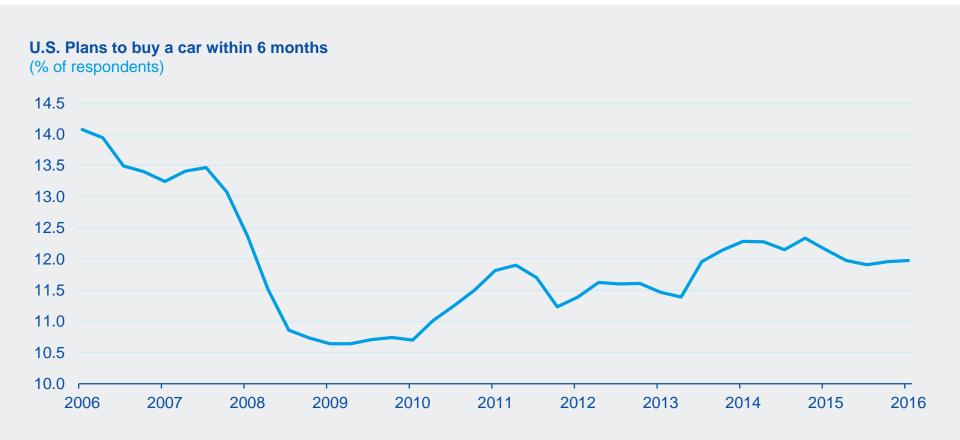
Consumers

U.S. Consumer sentiment index





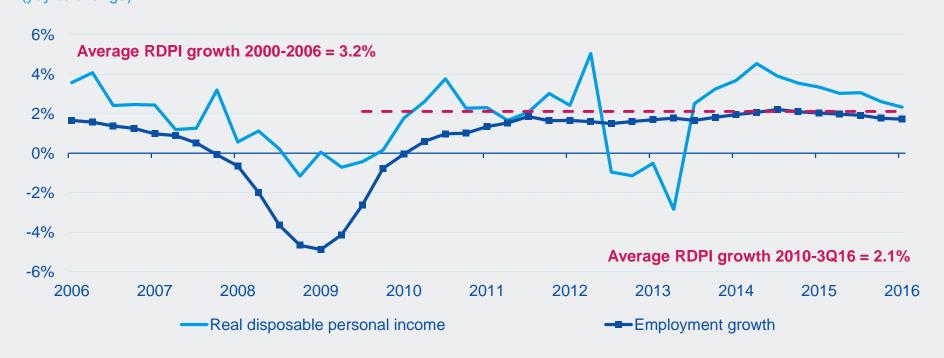
Consumers





Consumers

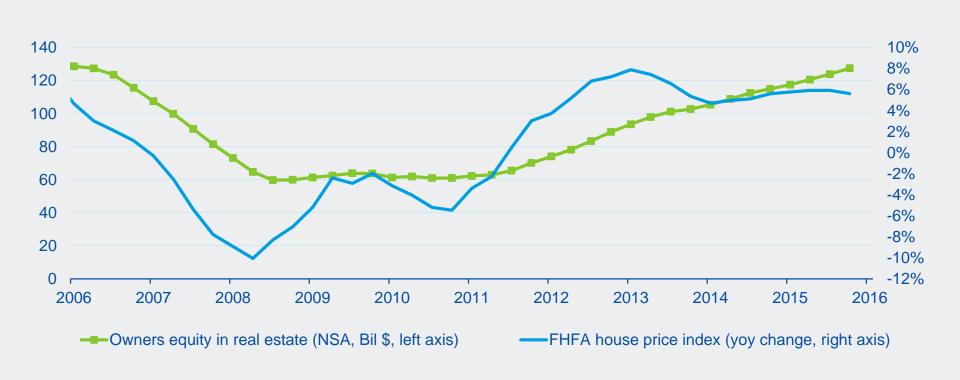




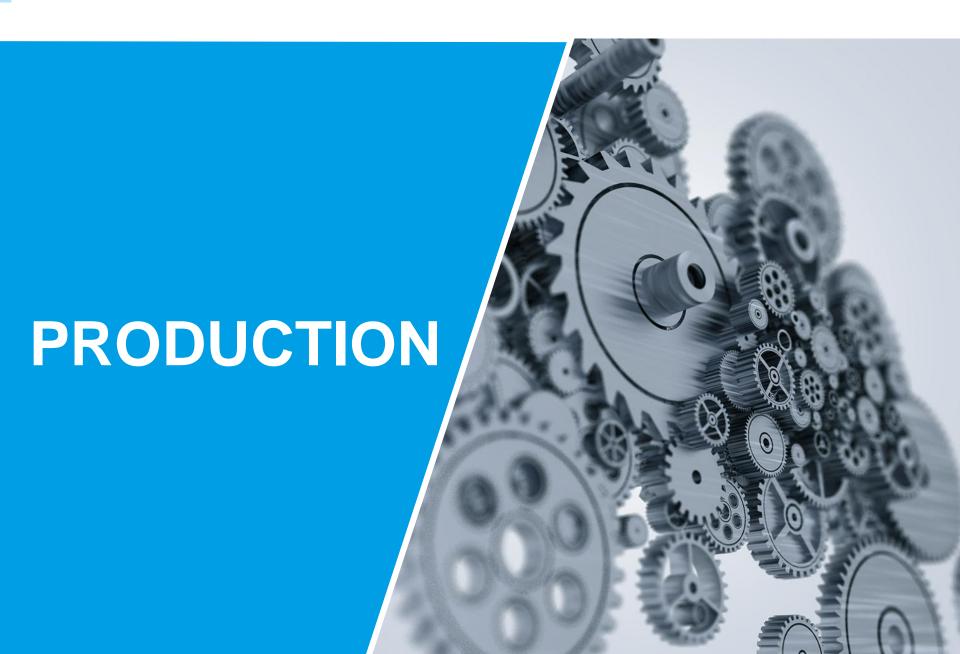


Household Equity

U.S. Household equity and home prices



Source: Haver Analytics





Production

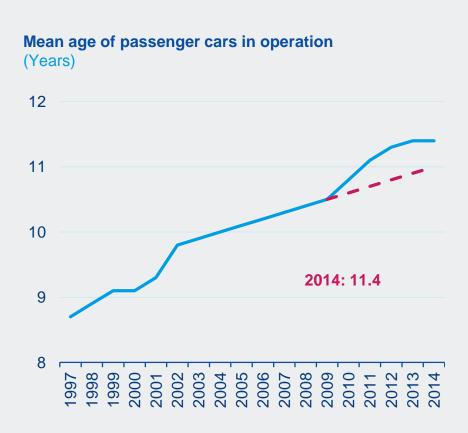
U.S. Auto production

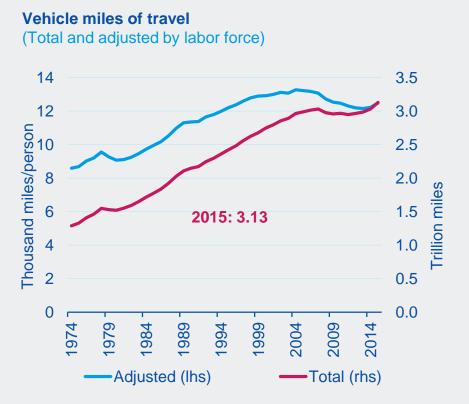






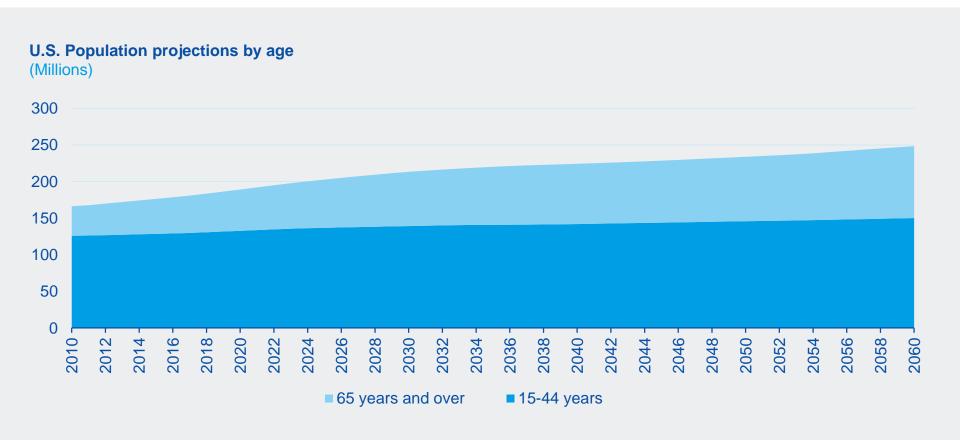
Fundamentals





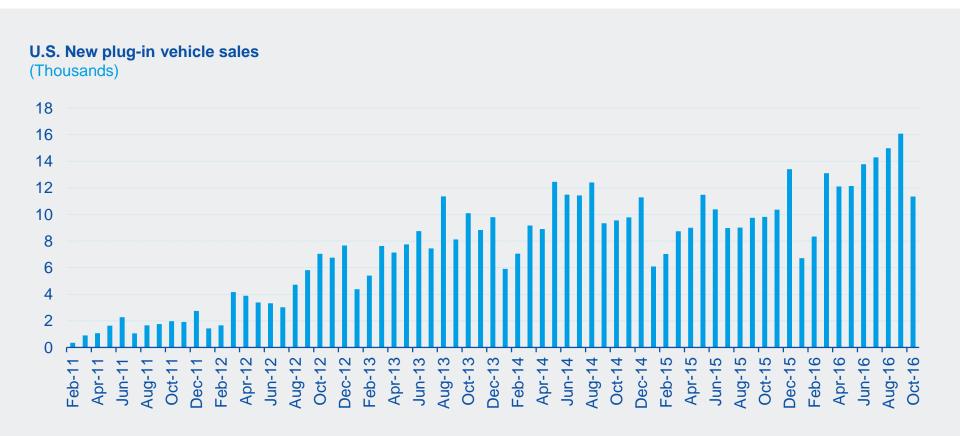


Demographics



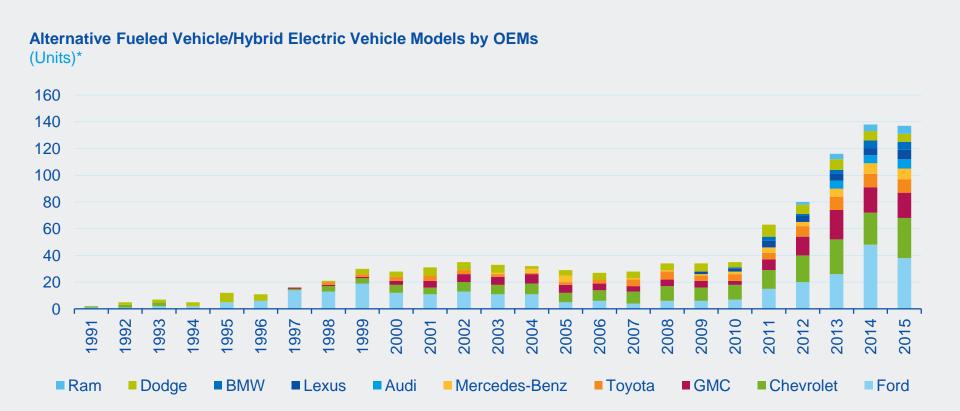


Alternative vehicles





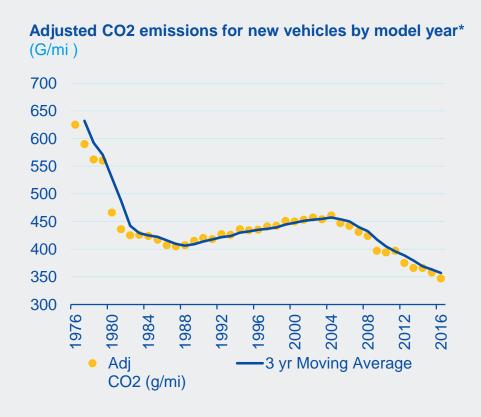
Alternative vehicles

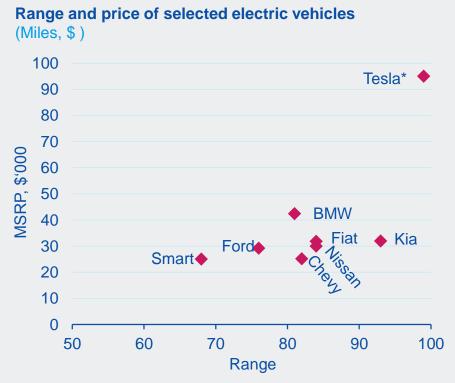


^{*} Top ten OEMs by number of models in 2015 Source: Bloomberg Energy Finance & Energy Department



Alternative vehicles

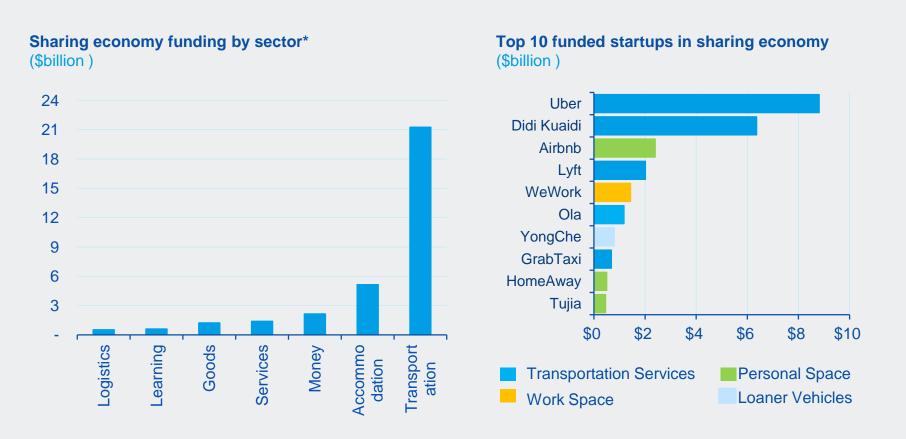




^{*}Tesla scaled for fit. Actual range is 270 at MSRP \$108,000. Data provided for 2016 models of Tesla Model S-P90D, Kia Soul Electric, Fiat 500e, Nissan Leaf, Chevy Spark Electric, BMW i3, Ford Focus Electric, Smart Electric
Source: Company Websites, U.S. Dept. of Energy



Sharing economy







Forecasts

	2013	2014	2015	2016	2017	2018
Auto sales (millions units)	15.6	16.5	17.4	17.5	18.0	17.5
Real GDP growth (% change)	1.7	2.4	2.6	1.6	2.2	2.4
Unemployment rate (% avg.)	7.4	6.2	5.3	4.9	4.8	5.0
Fed funds (%, eop)	0.25	0.25	0.50	0.75	1.25	1.75
5-year Treasuries (%, avg)	1.17	1.64	1.53	1.28	1.59	2.03

Source: BBVA Research 32



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