## 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


## Sales

U.S. Total light weight vehicle sales (SAAR*, million units)


## Sales



## Sales

## U.S. Light and heavy trucks minus cars

(million units)


## Sales

## U.S. Vehicle days to turn

(industry average)


## Sales



## Sales



## Prices

## U.S. Consumer price index: cars and trucks

(yoy \% change)


## Prices



## Financing Conditions



## Financing Conditions



## Financing Conditions



## Financing Conditions

U.S. Newly originated installment auto loans
(\$ billion, eop, 4-qtr moving ave.)


## Gasoline

## U.S. Spot price

(\$/gallon)


## Consumers



## Consumers

## U.S. Plans to buy a car within 6 months

(\% of respondents)


## Consumers

U.S. Employment and real disposable personal income


## Household Equity

## U.S. Household equity and home prices



## PRODUCTION

## Production

## U.S. Auto production


—Industrial production index: autos (2007=100, left axis) $\simeq-$ BEA auto production estimate (SAAR, million. units, right axis)


## Fundamentals

Mean age of passenger cars in operation
(Years)


8


## Vehicle miles of travel

(Total and adjusted by labor force)


## Demographics



## Alternative vehicles

U.S. New plug-in vehicle sales


## Alternative vehicles

## Alternative Fueled Vehicle/Hybrid Electric Vehicle Models by OEMs

(Units)*


## Alternative vehicles

Adjusted CO2 emissions for new vehicles by model year* (G/mi )


Range and price of selected electric vehicles
(Miles, \$ )

*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



Top 10 funded startups in sharing economy (\$billion)


## FORECASTS

## Forecasts

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

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