

Automotive Industry Outlook:

Managing Volatility and Leveraging Opportunities in a Dynamic Market Environment

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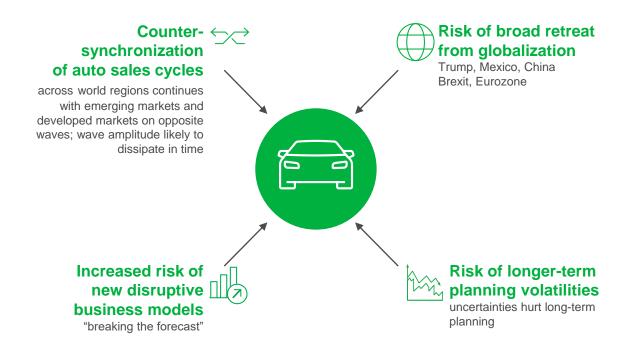
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Big Picture: Global Automotive Outlook

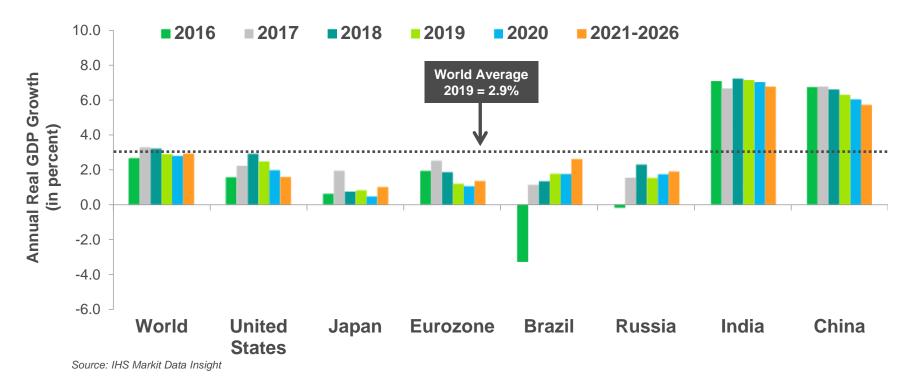
Implications for the Global Automotive Industry

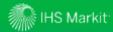




World Economic Growth

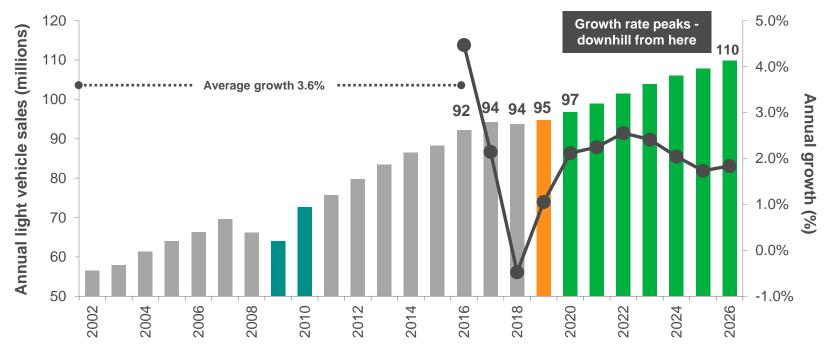
Global Economic Growth has Peaked and is Vulnerable; Trade Tensions Weigh on Outlook



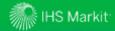


Global Light Vehicle Sales

Volatility Impacts the Near-Term Outlook; Mobility Dynamics Drive Slower Growth Long Term

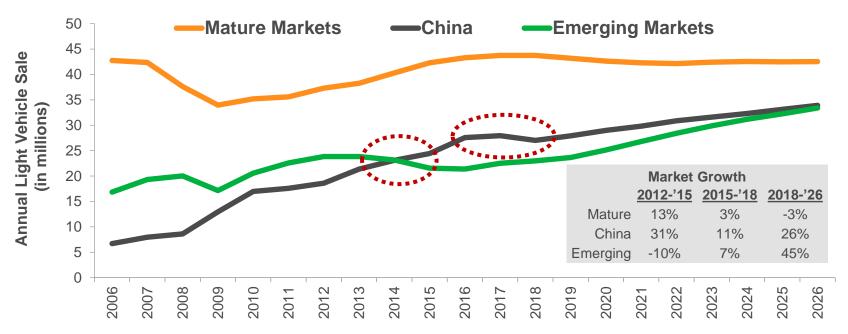


Source: IHS Markit Light Vehicle Sales Forecasts

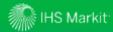


The Changing Automotive World

Emerging Markets Outlook is Key to Growth; Limited Potential in Mature Markets

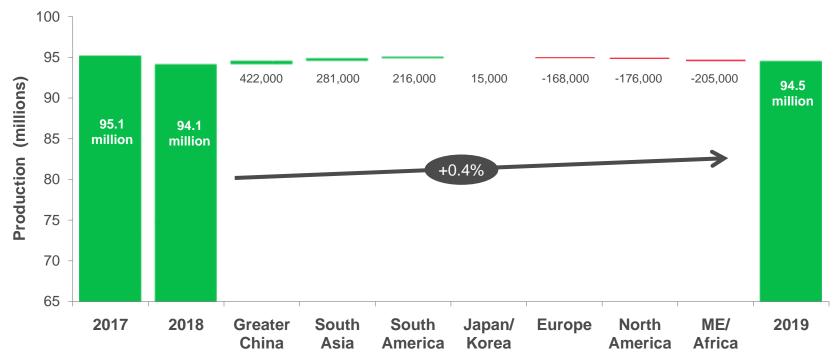


Note: Mature Markets = US, Canada, Japan, S Korea, Australia, New Zealand, Western Europe Source: IHS Markit Light Vehicle Sales Forecast

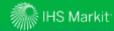


Global Light Vehicle Production

Marginal Growth Driven by Asia and South America; Material Risks Remain

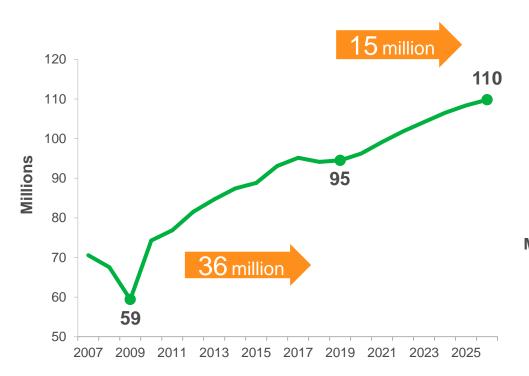


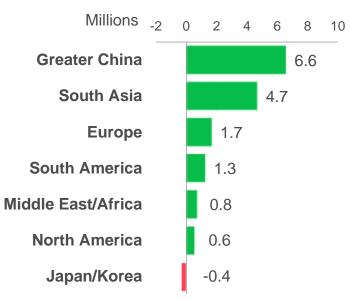
Source: IHS Markit Light Vehicle Production Forecast



Global Production Growth

Transition from Mature Markets to Emerging Markets Intensifies in the Longer Term







US: Light Vehicle Sales Outlook

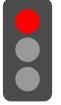
Gauging the Health of the Market



- Consumer confidence
- Economic growth
- Job growth
- Credit availability
- Vehicle fleet age/ composition



- Wage growth
- Incentives vs.
 average transaction
 prices: can the
 discipline be
 maintained?
- Scrap rate/vehicle density
- Yield curve inversion?
- Tariff/trade tensions

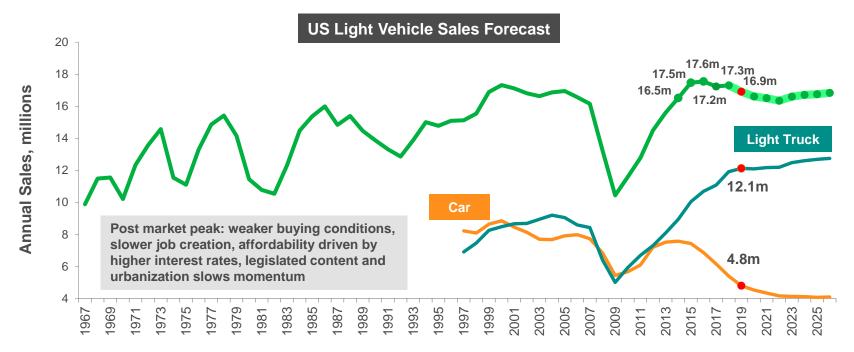


- Fed action/ interest rates
- Risk of policy mistakes
- Lease returns/ used vehicle pricing/residuals
- Rising input costs
- Vehicle affordability pressures



US: Light Vehicle Sales Outlook

Market Shifting to a "Declining Plateau"; Mobility Dynamics Factor in Longer Term

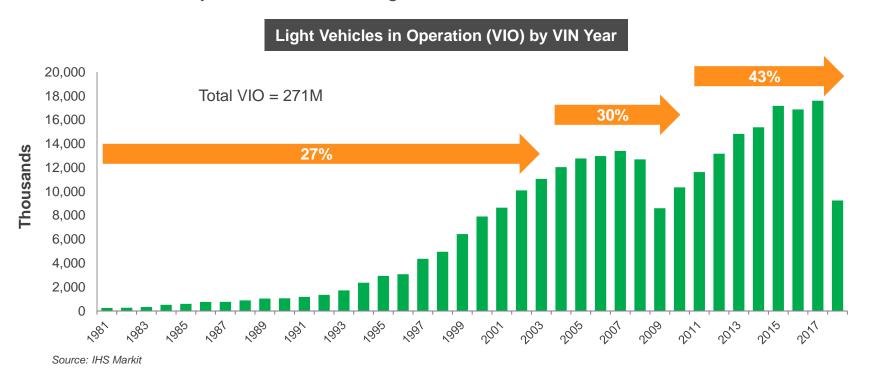


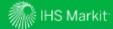
Source: IHS Markit Light Vehicle Sales Forecast



US: Light Vehicle Sales Outlook

Pool of Potential Buyers Remains Strong





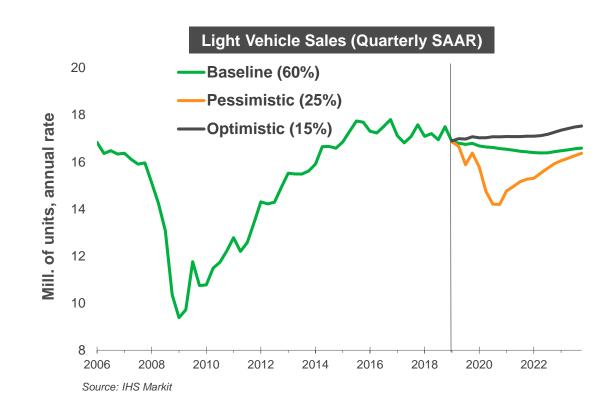
US Light Vehicle Sales in Alternative Scenarios

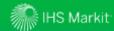
Positives

- · Consumer confidence
- Economic growth
- Housing recovery
- Job growth
- Credit Availability

Negatives

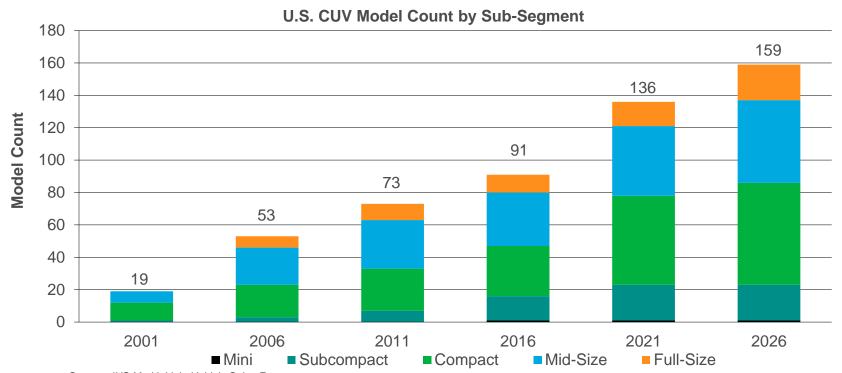
- New & used vehicle pricing
- Off lease returns
- Incentives
- Longer loan terms
- Interest rate outlook
- Uncertainty



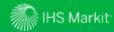


U.S.: Light Vehicle Sales Outlook

Are We Reaching a Saturation Point for CUV Models? Differentiation will be Critical!

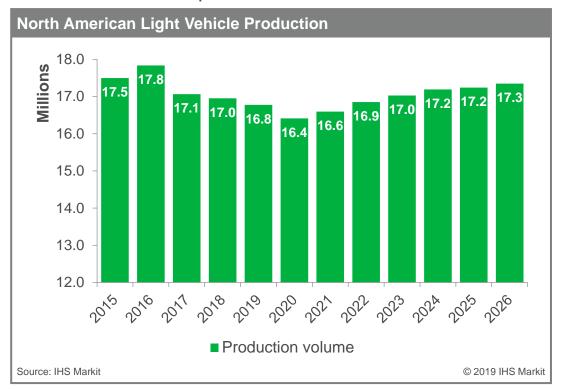


Source: IHS Markit Light Vehicle Sales Forecast



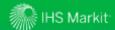
North American Light Vehicle Production

Push to Reduce Exposure to Cars and Tariff/Trade Situation Impacts Near-Term Outlook



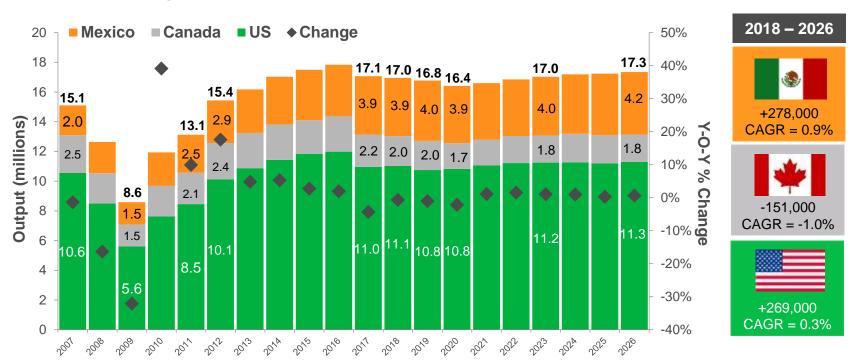
Short-term pain, longer-term gain

- Finding balance
 - Incentives
 - Fleet
 - Inventory
 - Production planning (e.g. car vs. light truck, electrification, etc.)
 - Quality versus quantity
- Growth due primarily to localization and portfolio expansion
- Off-shoring
 - Cancellations
 - Backfilling

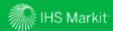


Production Outlook

North American Light Vehicle Production by Country

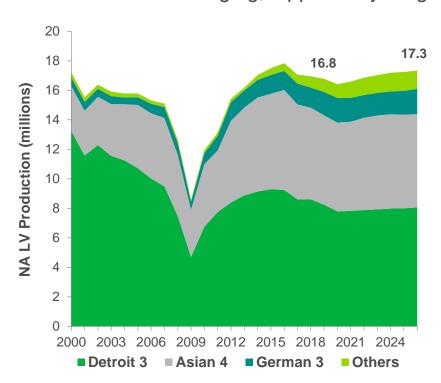


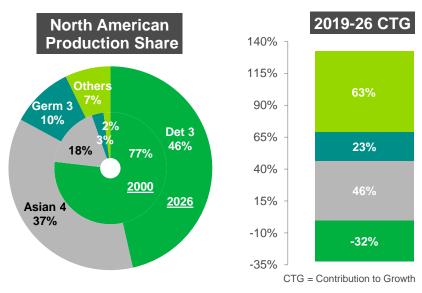
Source: IHS Markit Light Vehicle Production Forecast



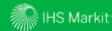
North American Light Vehicle Production

Customer Mix is Changing; Opportunity Targeting is More Critical than Ever!



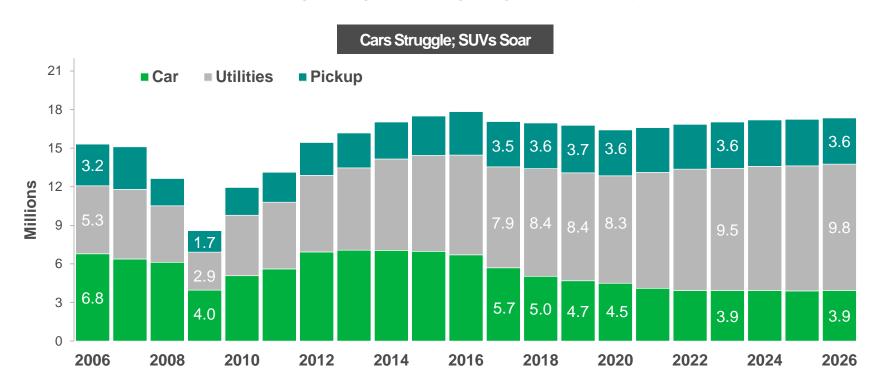


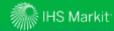
- Asian, German and 'Other' OEM production accelerates with continued localization and new white space products.
- Detroit 3 production declines due to plant rationalization, product realignment and vehicle production sourcing decisions.



North American Light Vehicle Production

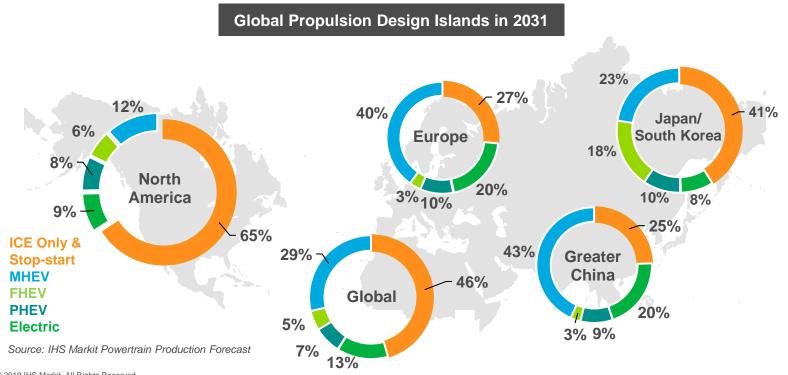
Vehicle Mix Continues to Change; Segment Targeting is Necessary





Powertrain Technology Outlook

Regional Preferences and Incentives Result in a Varied Propulsion Mix; Watch the Model Count!





Thank You!

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