The Evolution Of The Car

Connected Cars Will Be A Top Internet Of Things Device

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Agenda

Connected Car

- Strategy for Connecting
- Benefits of Connecting

Self-Driving Car

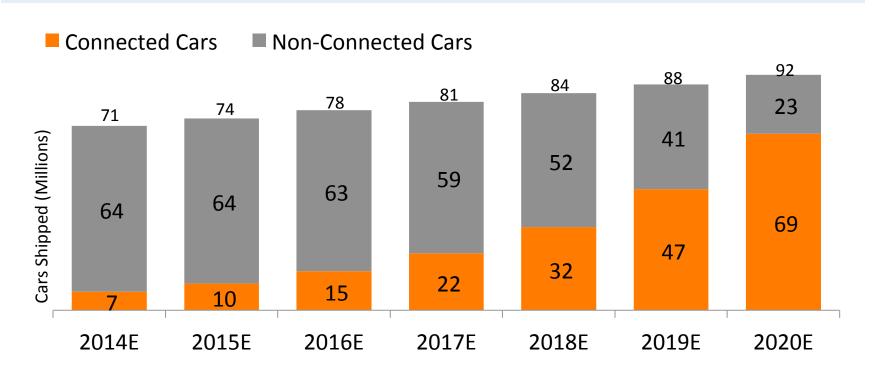
- Semi vs. Fully Autonomous
- Barriers

Connected Car



Automakers Are Connecting Cars To The Internet

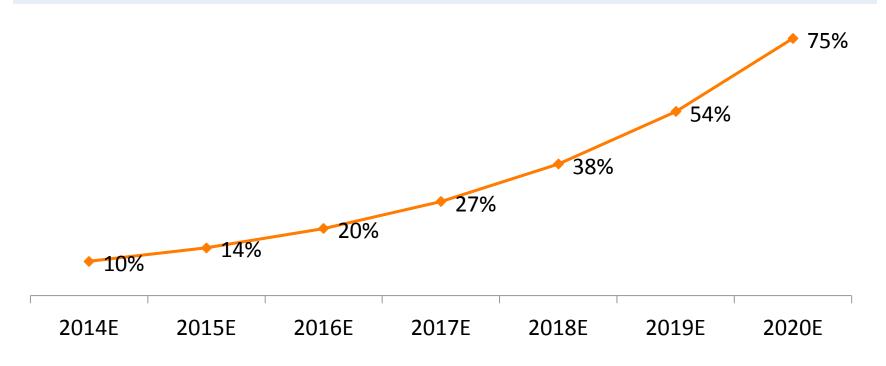
Global Connected Car Shipments





The Majority Of Cars Shipped In 2020 Will Be Connected

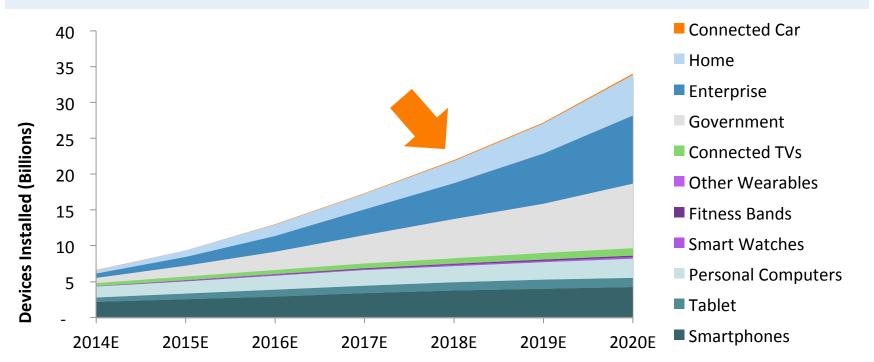
Global Connected Car Shipments As A Percentage





The Connected Car Is A Small Portion Of The IoE Device Market

Internet Connected Device Installed Base

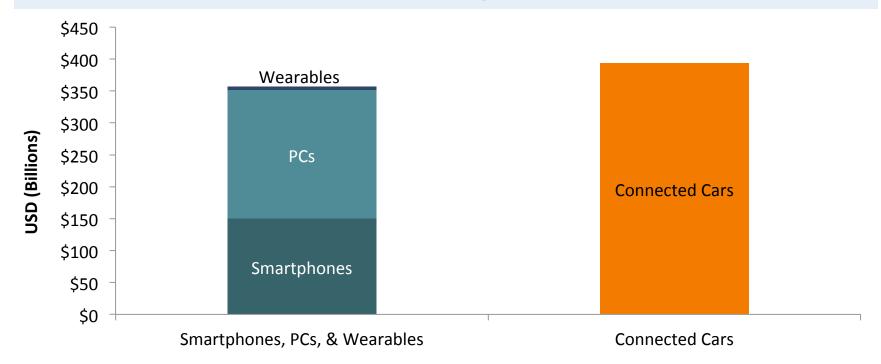




Source: BI Intelligence Estimates, 2015

But The Car Market Generates A Lot Of Money

2014 Connected Car Market Was More Than Smartphone, PC, & Wearable Market Combined





Source: Markets and Markets, IDC, Visiongain, BI Intelligence Estimates, 2015

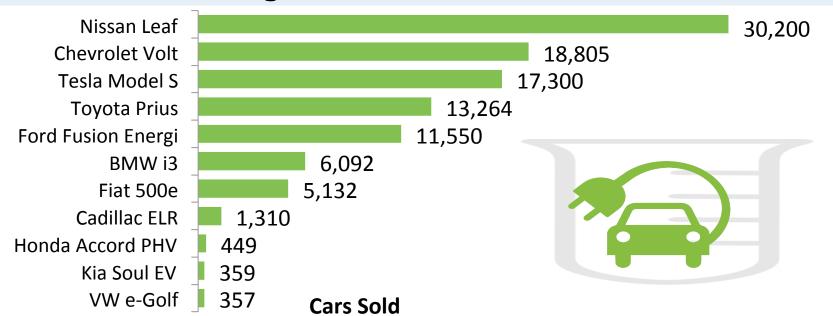
Strategy



The Electric Car Is The Test Tube

Electric car customers are the most tech-savvy, which is why automakers are installing internet connections in these vehicles first.

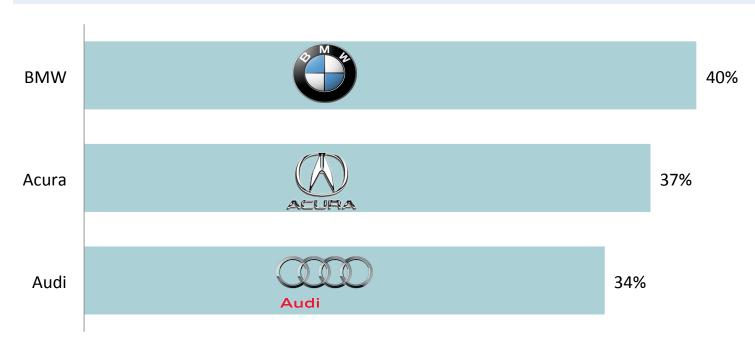
2014 US Sales Of Plug-In Electric Vehicles That Offer Connection



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Luxury Car Customers Want Connected Technology

Interest In Owning A Connected Car By Car Make





Expand Connection To All Vehicles

After testing connectivity features in their electric models, automakers will expand connection offerings to luxury and economy vehicles.



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Benefits



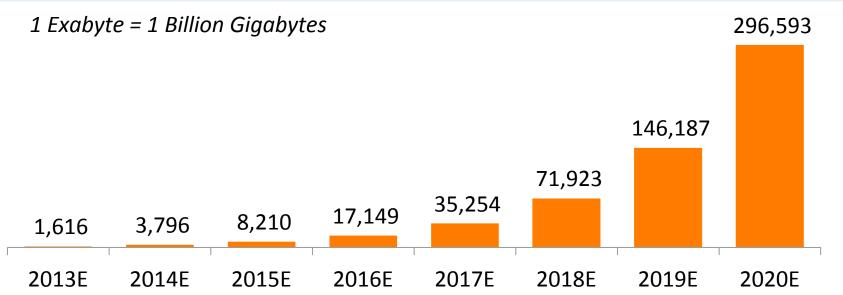
How Automakers Benefit From Connecting Cars



1. Generating Data

Automakers use connected car data to learn about their car's use and improve future models.

Exabytes of Data Produced by Global Connected Cars



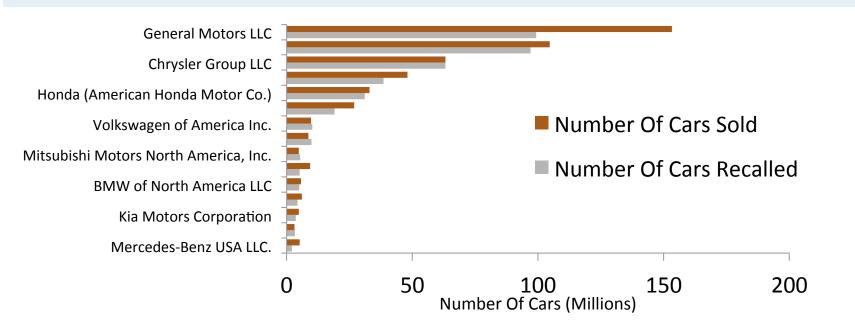
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Source: Ford: 2013, BI Intelligence: 2015

2. Pushing Over-The-Air Updates

Cars are no longer stagnant when they leave the lot. Connection enables real-time software updates to cars.

Cars Recalled Between 1985-2014

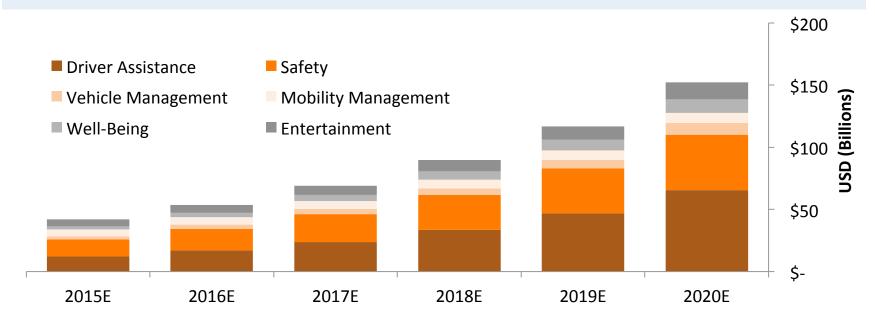




3. Adding Products & Services

Car makers and tech companies are trying to monetize connection by adding products and services.

Global Revenue From Extra Connected Products/Services



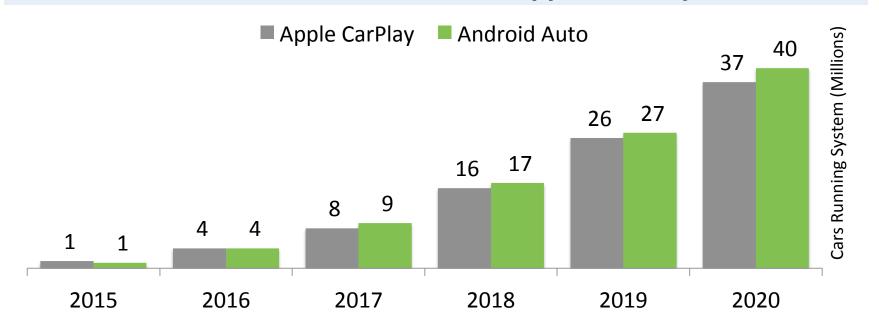
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Source: Strategy&: 2014, BI Intelligence Estimates: 2015

Major Tech Companies Will Help Build Connected Car Platforms

Apple, Google, Microsoft, and Blackberry are partnering with automakers to build connected car products.

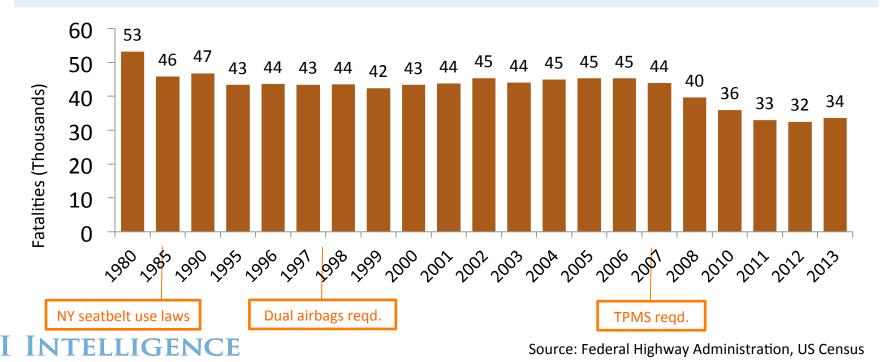
Number of Cars with Android Auto vs. Apple CarPlay



4. Improving Car Safety

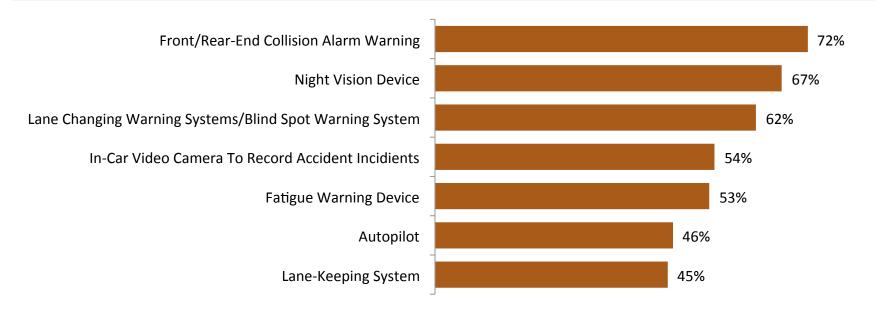
Airbags, seat belts, advanced braking systems, and other innovations have made roads safer.

US Car Crash Fatalities



And Consumers Want Safety Features

Q: Which of the following information technologies/driving support systems would you like to use in your car? (Global) n=10,000



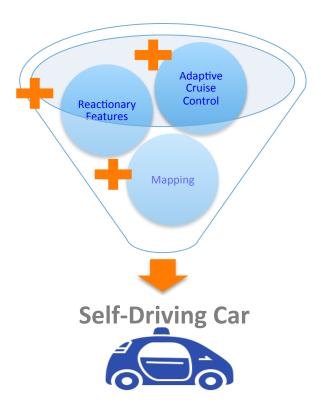


Self-Driving Car



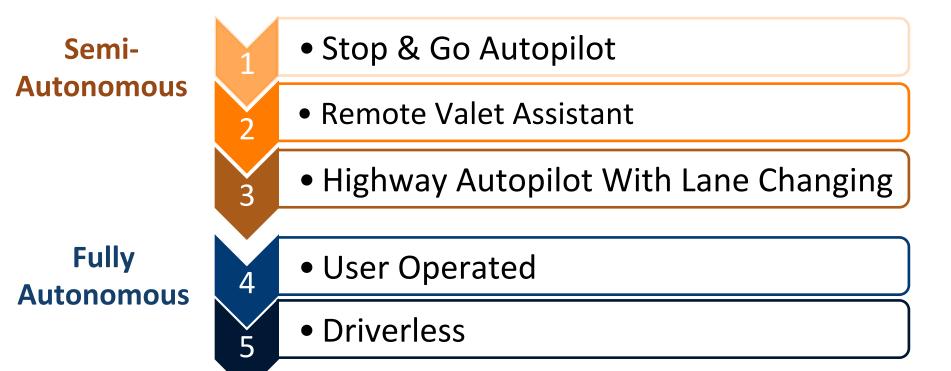
Connected -> Self-Driving

Adding safety and mapping features to connected cars will help to create the self-driving car.





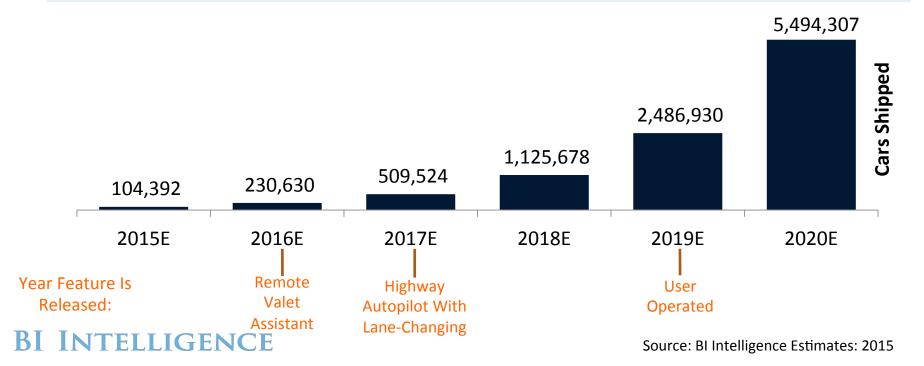
Spectrum Of Self-Driving Cars



Widescale Self-Driving Capabilities Will Be Available Soon

> BMW, Tesla, and a few OEMs have announced how their cars will be able to drive themselves in upcoming models.

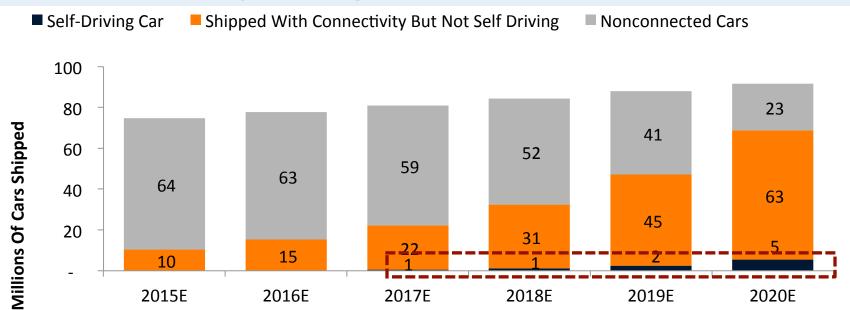
Estimated Global Shipments of Self-Driving Cars



But This Is A Fraction Of The Cars Shipped

Self-driving cars will make up 8% of connected car shipments in 2020.

Global Self-Driving Car Shipments As A Share Of The Car Market





Trucks And Taxis Will Be Fully Autonomous First

Daimler recently unveiled their new self-driving truck, and Uber is working with Carnegie Mellon on a self-driving vehicle.



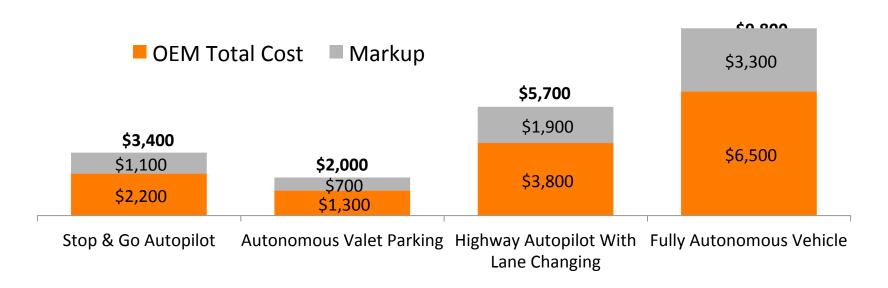
Barriers To Adoption



The Top Barrier Is Cost

Self-driving capabilities can be very costly to the end consumer.

Added Cost To Consumer For Self-Driving Capabilities (At Launch)

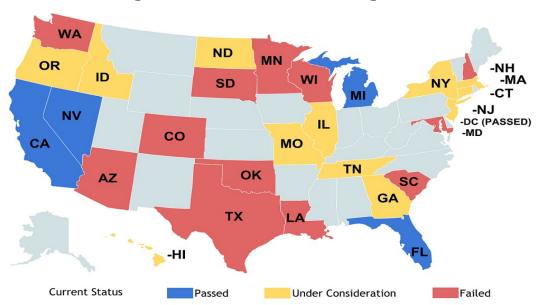




Regulations Vary By State

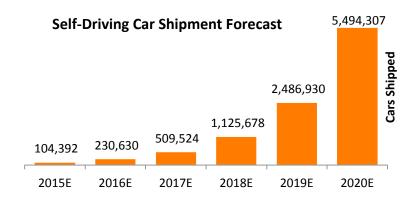
State-by-state regulation of self-driving cars will be a major obstacle to getting them on the road. Other countries might be more willing to accept them.

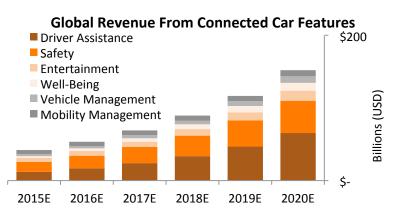
Legal Status Of Self-Driving Cars

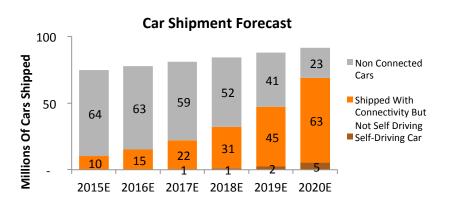




Recap









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