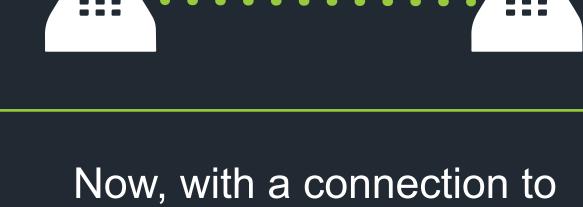
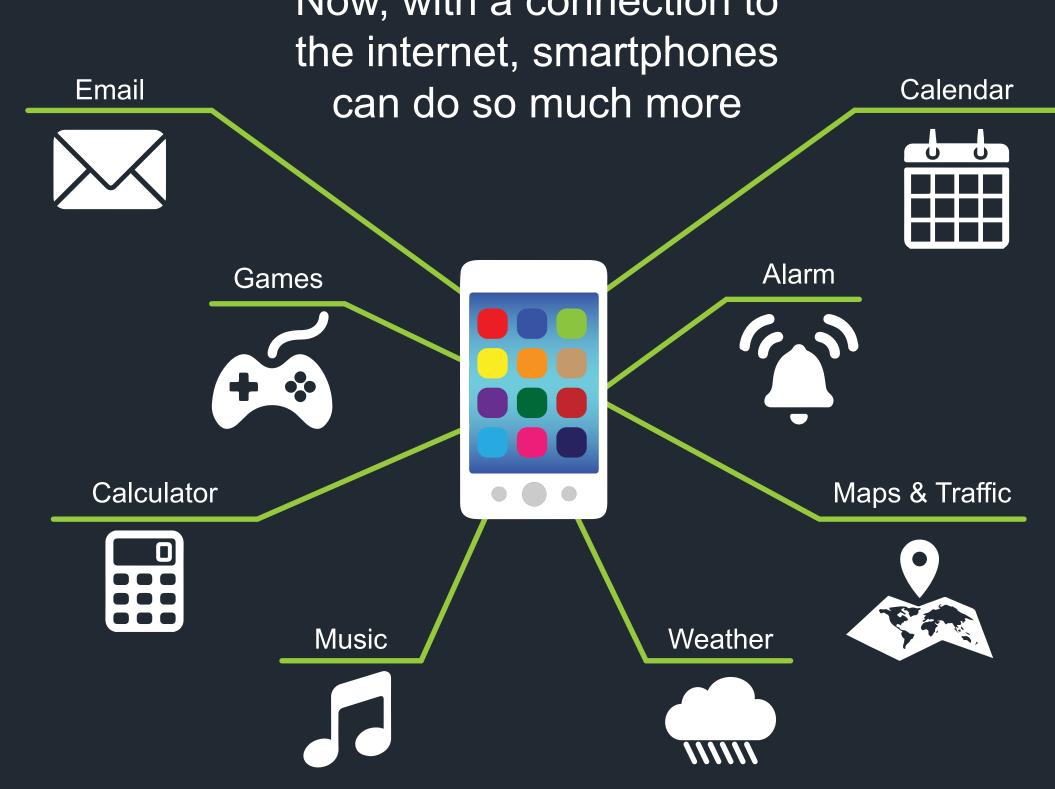
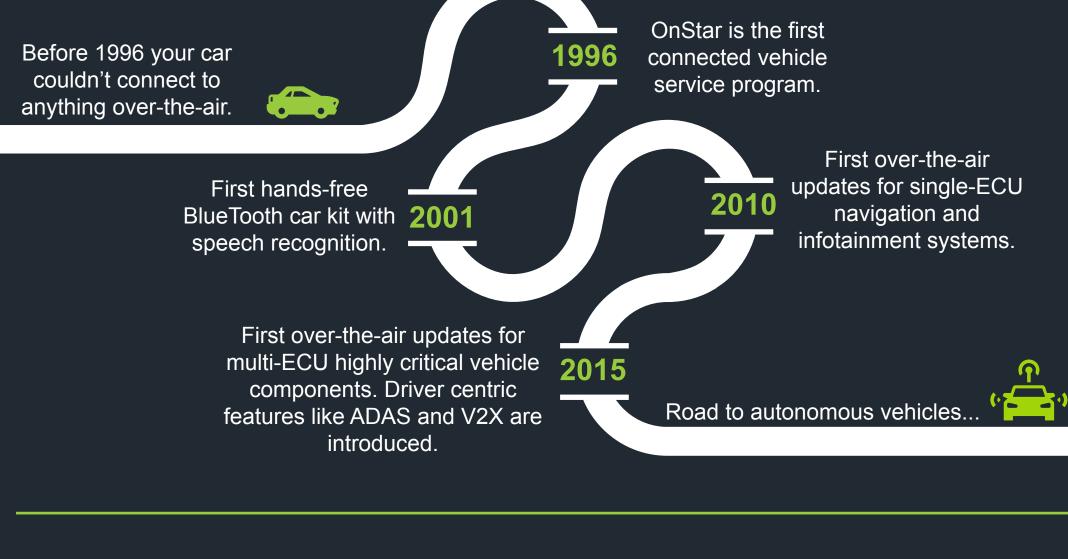
Remember when... Phones only made calls?





## OnStar is the first

A similar trend is happening in automotive



# These advancements come with a massive increase in the amount of

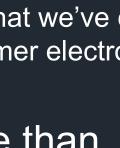
Software is at the center of automotive innovation

code, and will increasingly require updates similar to what we've come to expect with our smartphones, PCs, and other consumer electronics. Today's luxury sedan has more lines of code than...

Software technology for connected vehicles is transforming the

automotive landscape, and software advancements will lead to new

opportunities and innovations we are just now beginning to realize.



300 Million?

And these software

automakers billions of

recalls will cost



Luxury Sedan

**Autonomous Car** 

2014

As more software is built into

vehicles, the number of vehicle

software recalls will continue to

6%\*

22 Million 50 Million

How much code will autonomous vehicles have?

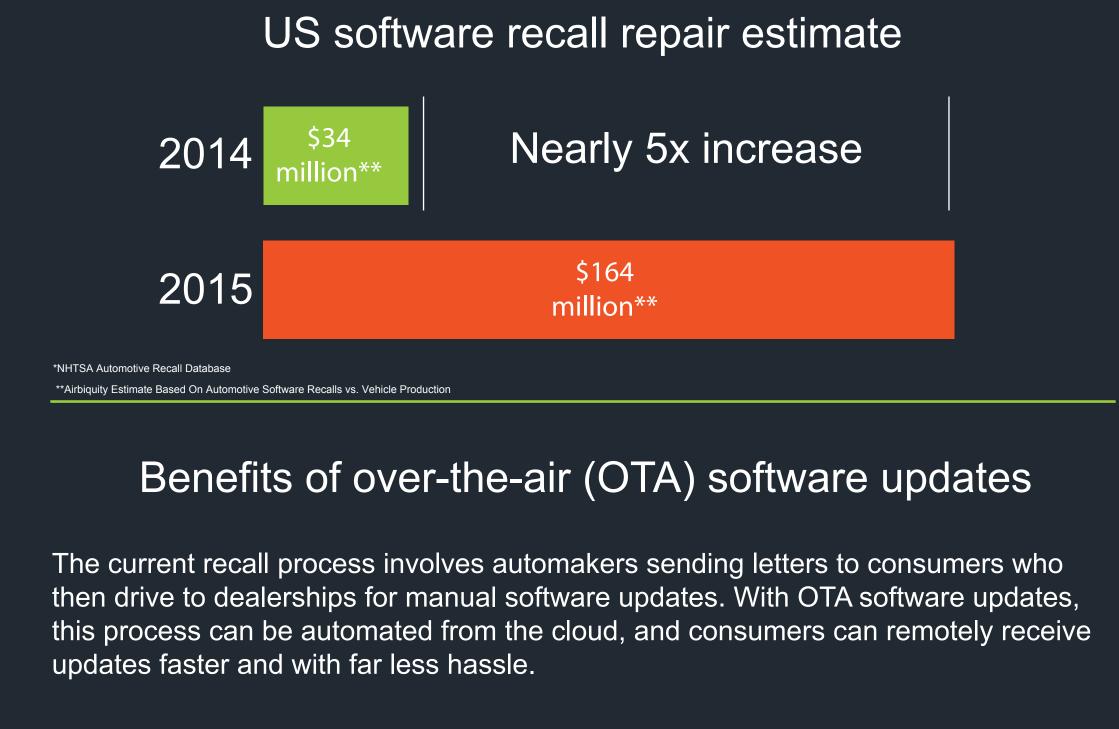
100 Million

### grow year-over-year dollars a year globally

Percent of US software related recalls

2015

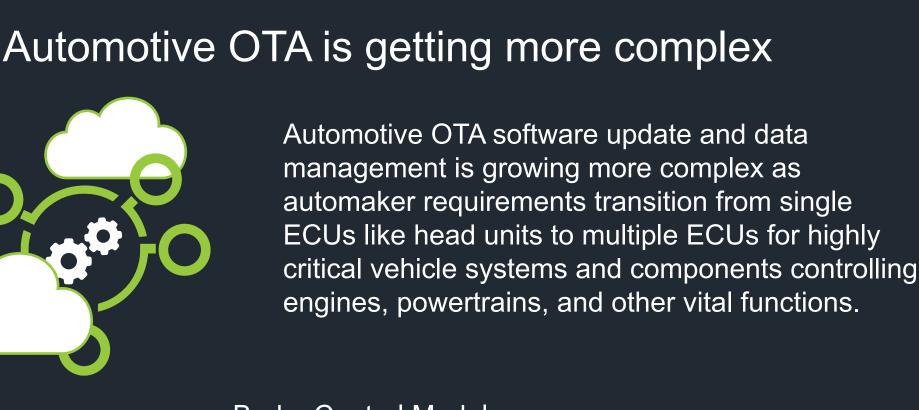
Vehicle recall costs are increasing

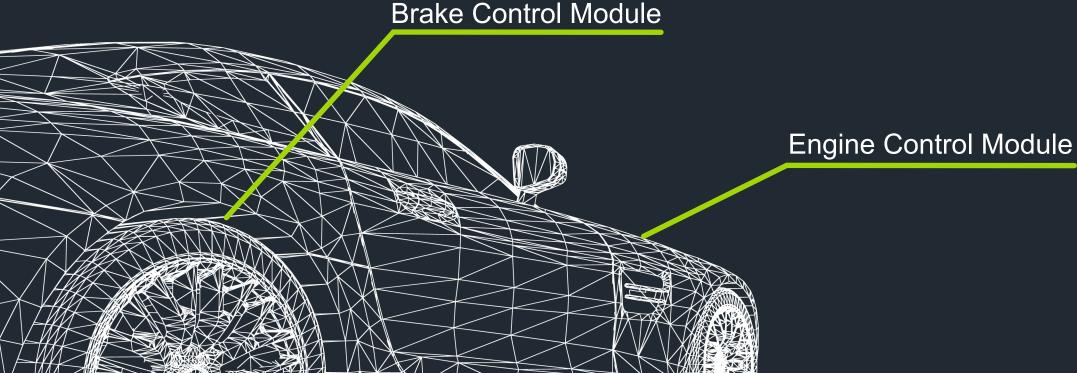


### Faster Recall Reduced Recall Improved Cybersecurity Compliance Response Expense

The other side of the coin: data management

Connected cars with OTA can not only receive software updates - they can transmit data to the cloud for analytics. This will increasingly allow automakers to understand and manage the vehicle's operations and performance, as well as Data Management deliver new services leading to enhanced software Updates consumer experiences and brand loyalty.





# Automotive OTA is crucial for autonomous driving

24/7 software updates and data management will be mandatory to keep autonomous vehicle software optimized and allow a continual flow of information about vehicle health, location, condition, direction, and communications with other cars, traffic signals, and even people in our increasingly connected world.



Powertrain Control Module

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