

The Road to Autonomous Vehicles

A Real Estate Industry Game Changer

Norman Bel Geddes' Futurama exhibit - 1939 World's Fair

Concept of "automated" highways

Artificial intelligence enthusiasts dream of cars smart enough to navigate ordinary roads

1939



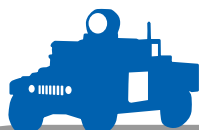
1950



1960

DARPA Grand Challenge I and II in Mojave Desert

Ernst Dickmanns equips Mercedes-Benz van to drive hundreds of highway miles autonomously



2004



1980

2007

DARPA Grand Challenge III (Urban Challenge)



Google enters AV arena with Pribot

Autonomous Audi TTS drives to top of Pikes Peak in Colorado

2008



2010



Nine automakers engineering self-driving cars



2013

Google autonomous vehicle passes 14-mile test by Nevada motor vehicle examiners



2012

VisLab Intercontinental Autonomous Challenge: 9,900 miles from Parma, Italy to Shanghai Expo, China



2014

Induct Technology's Navya shuttle available to public



Mercedes-Benz S-Class and Infiniti Q50 have features including lane assist, collision avoidance, autonomous steering, acceleration/braking, adaptive cruise control and parallel parking assist



2015

Tesla Summon released



Tesla Autopilot introduced



Delphi Automotive driverless car becomes first to cross U.S. from San Francisco to NYC



GM acquires San Francisco-based Cruise Automation



2016

Autonomous taxi service, nuTonomy, introduced in Singapore



All Tesla models built with appropriate hardware for SAE Level 5 capabilities:

- Steering and acceleration/deceleration
- Monitor environment
- Fallback performance
- Capability in all driving modes

2017

Notable autonomous vehicle and technology partnerships



\$15.3B



\$1.1B



\$1B



\$1B

UBER OTTO

\$680M

UBER VOLVO

\$300M

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