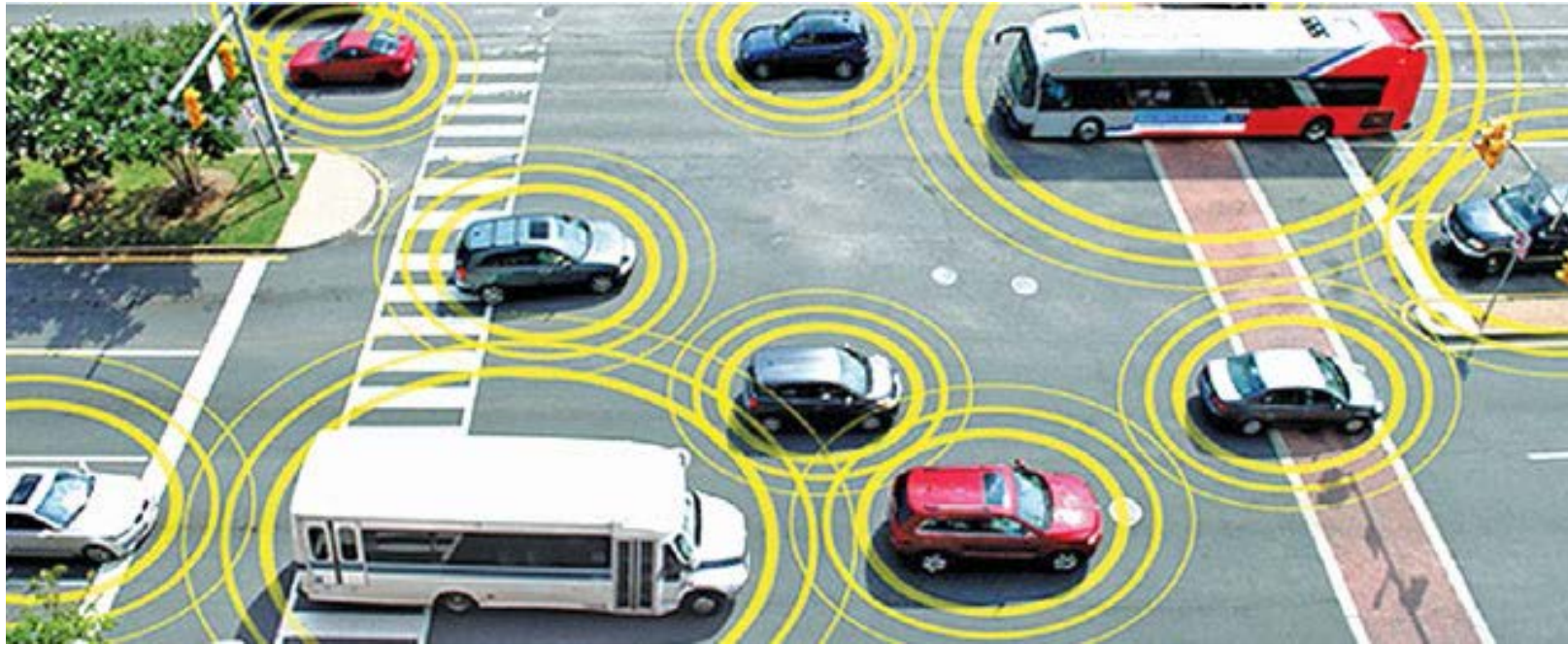


Looking Forward: ITS in the Bay Area



Andrew Fremier
Deputy Executive Director, Operations
Metropolitan Transportation Commission
2/16/17

Looking Backward

California ITS History



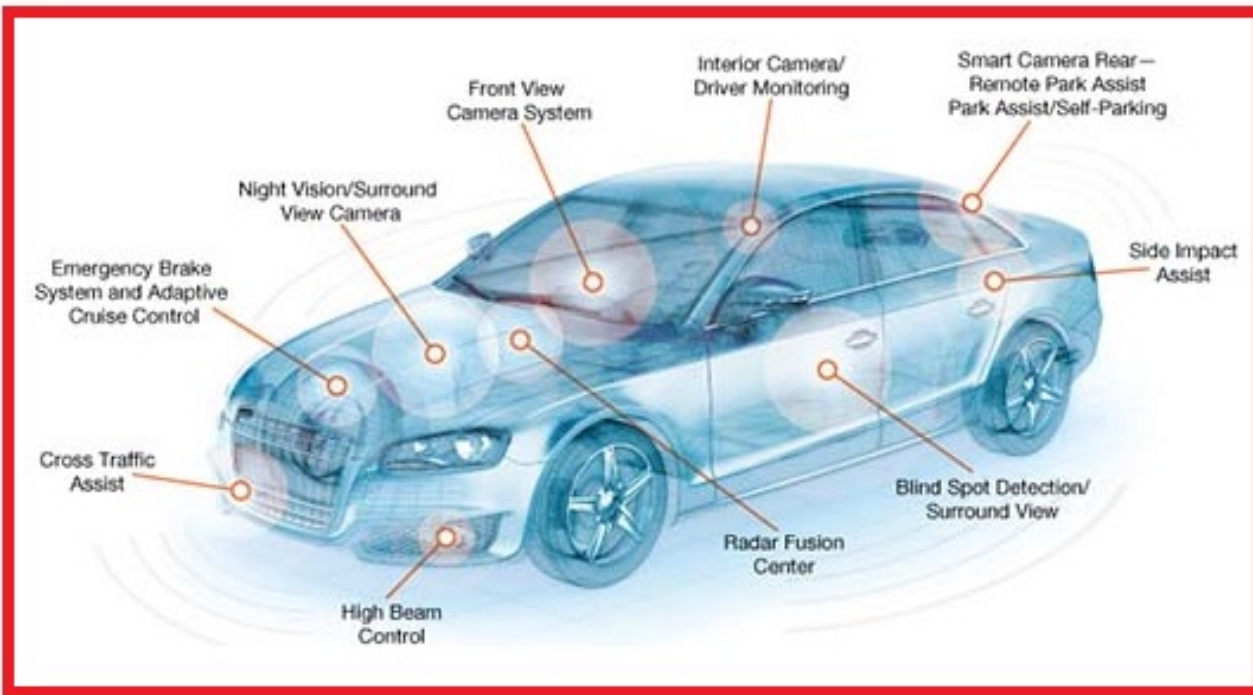
Source: FHWA

1997 demonstration of the Automated Highway System (AHS) on I-15 in San Diego, CA

Looking Forward

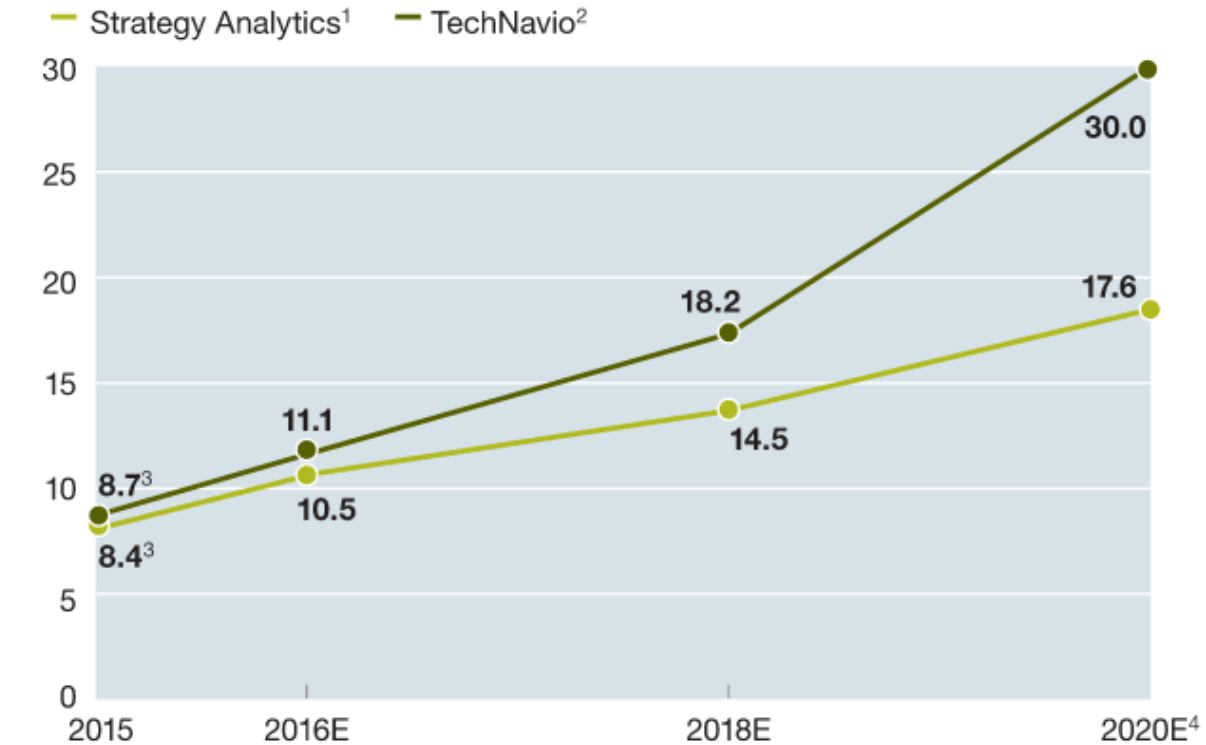
Vehicle automation is a growing business

Advanced Driver Assistance System Applications



Source: Motor Auto Parts

Global revenue projections for advanced driver-assistance systems, \$ billion



Source: IHS, SBD, Strategy Analytics;¹

Looking Forward

The Hope for Connected Vehicles

The path toward connected vehicles will ultimately lead to automated vehicles.

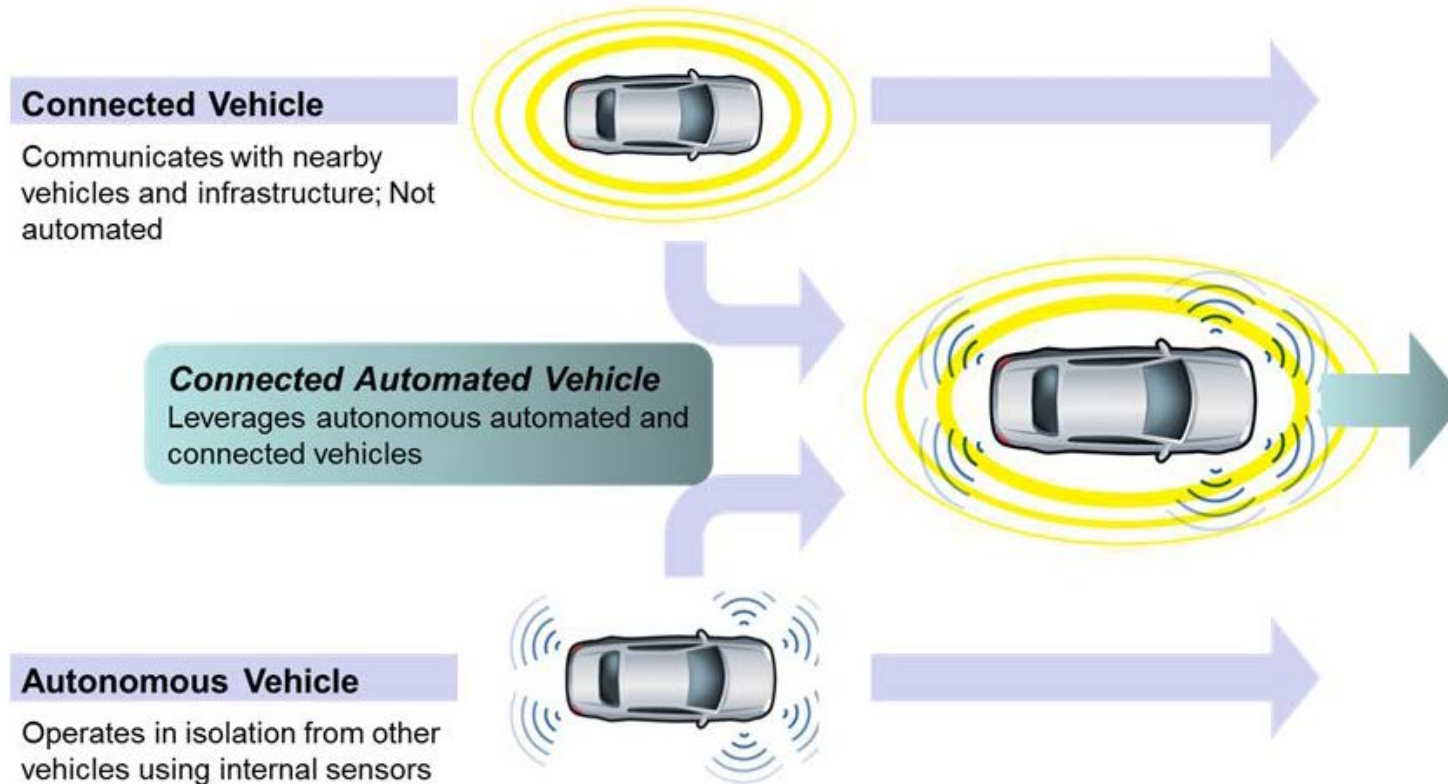
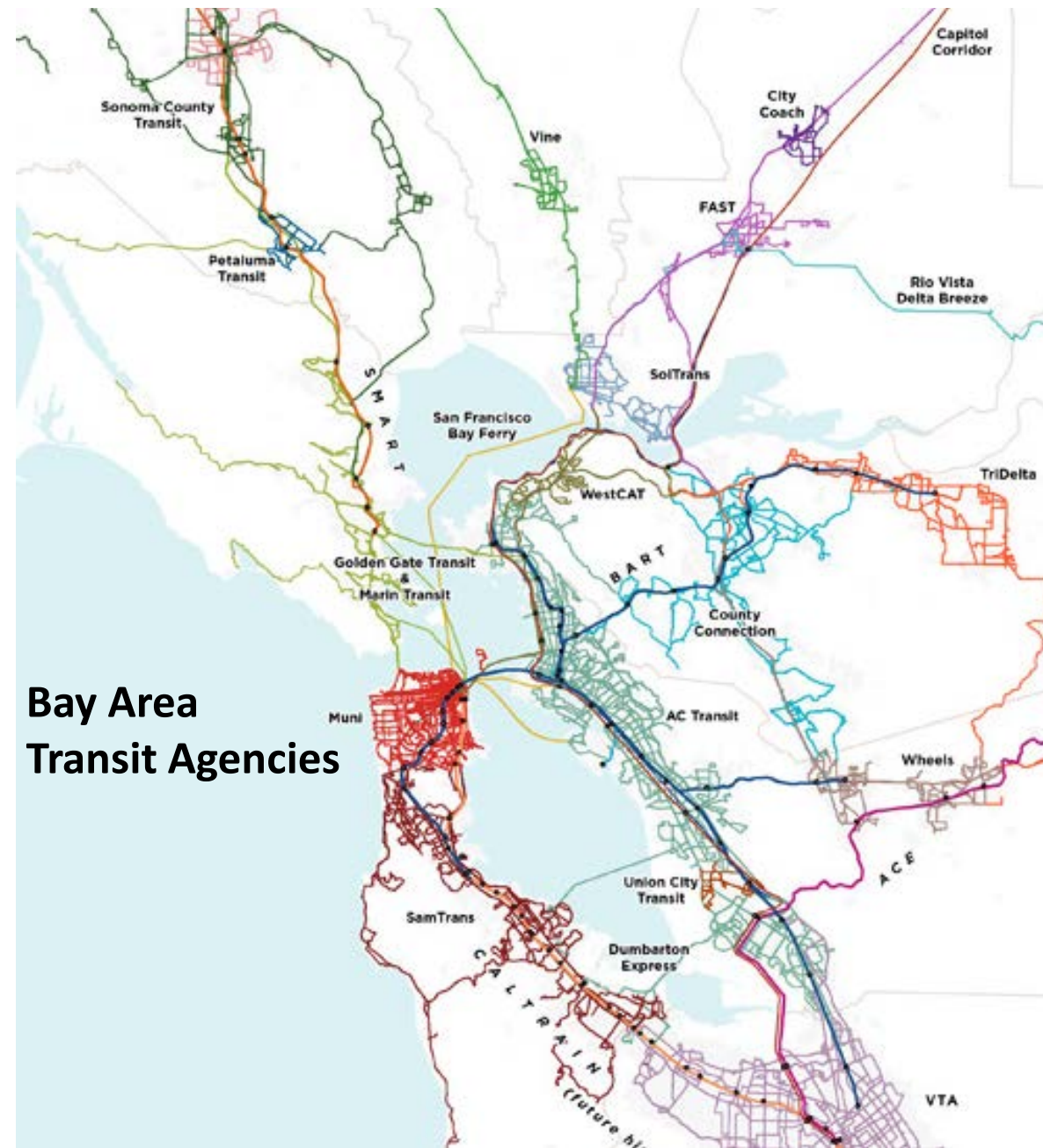


Image Source: Thinkstock/USDOT

Looking Forward

Fragmentation of the Public Sector Poses a Barrier to Innovation

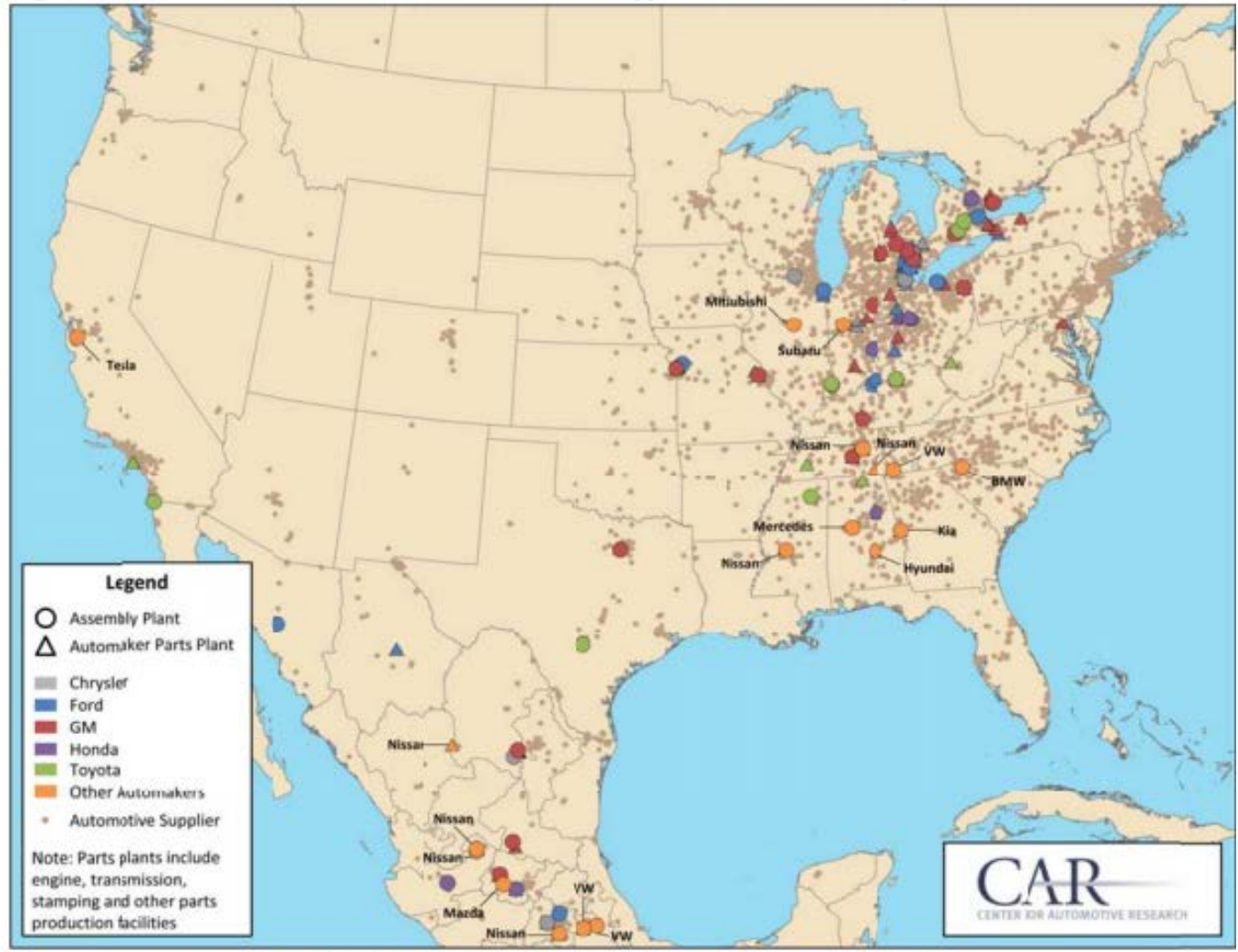
Transportation infrastructure is operated by a large number of agencies in the Bay Area and in the state



**Bay Area
Transit Agencies**

Bay Area Has Stiff Competition

Figure 1.1: North American Automaker and Automotive Supplier Production Facility Locations



Sources: Center for Automotive Research, 2014 (supplier locations from ELM Analytics and MarkLines)



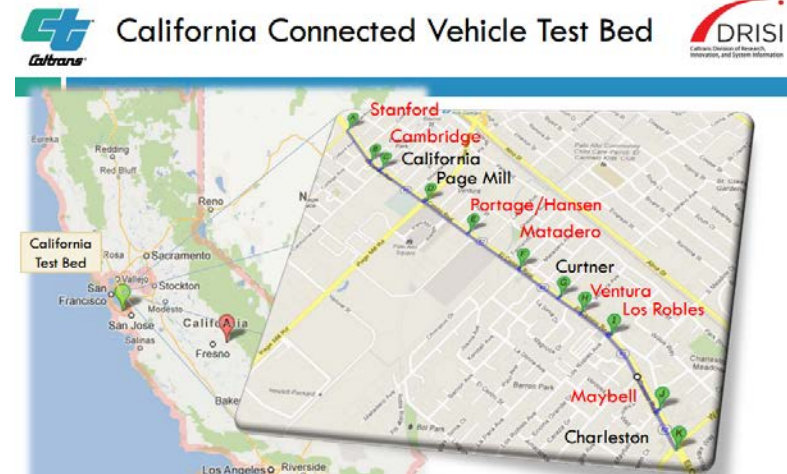
Connected Vehicles
Connected Vehicle
Pilot Deployment Program

Three icons representing connected vehicles: a car with a Wi-Fi symbol, a car with a smartphone, and a car with a Wi-Fi symbol.

NYCDOT Pilot THEA Pilot WYDOT Pilot

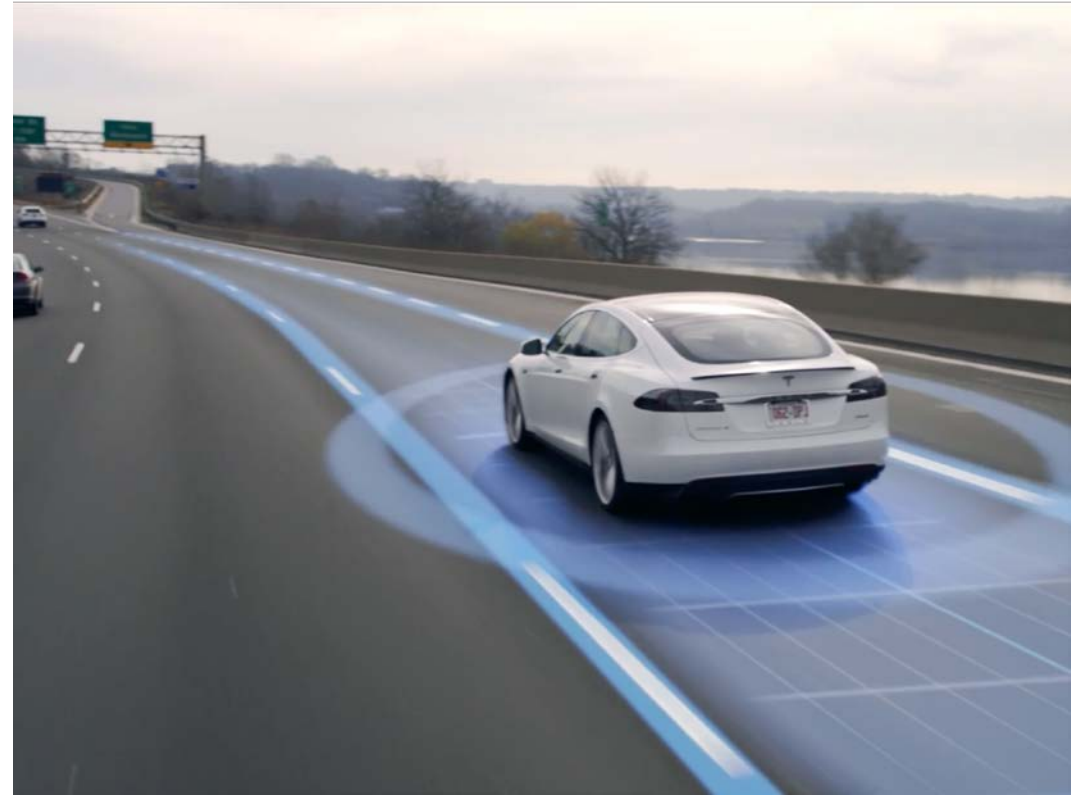
Looking Ahead

Public/Private Partnerships Put All of Us on the Cutting Edge



Looking Ahead

There are new players...



Unprecedented Cooperation Is a Must

STRATEGIC PLAN FOR

Intelligent Vehicle-Highway Systems

in the United States

*“Implementing IVHS will require unprecedented cooperation among all levels of government, the private sector, and academia.”**

Prepared by IVHS AMERICA

May 20, 1992

