

# Automated Vehicle Development, Testing and Implementation

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February 17, 2017



*Northeast Tarrant Transportation Summit*







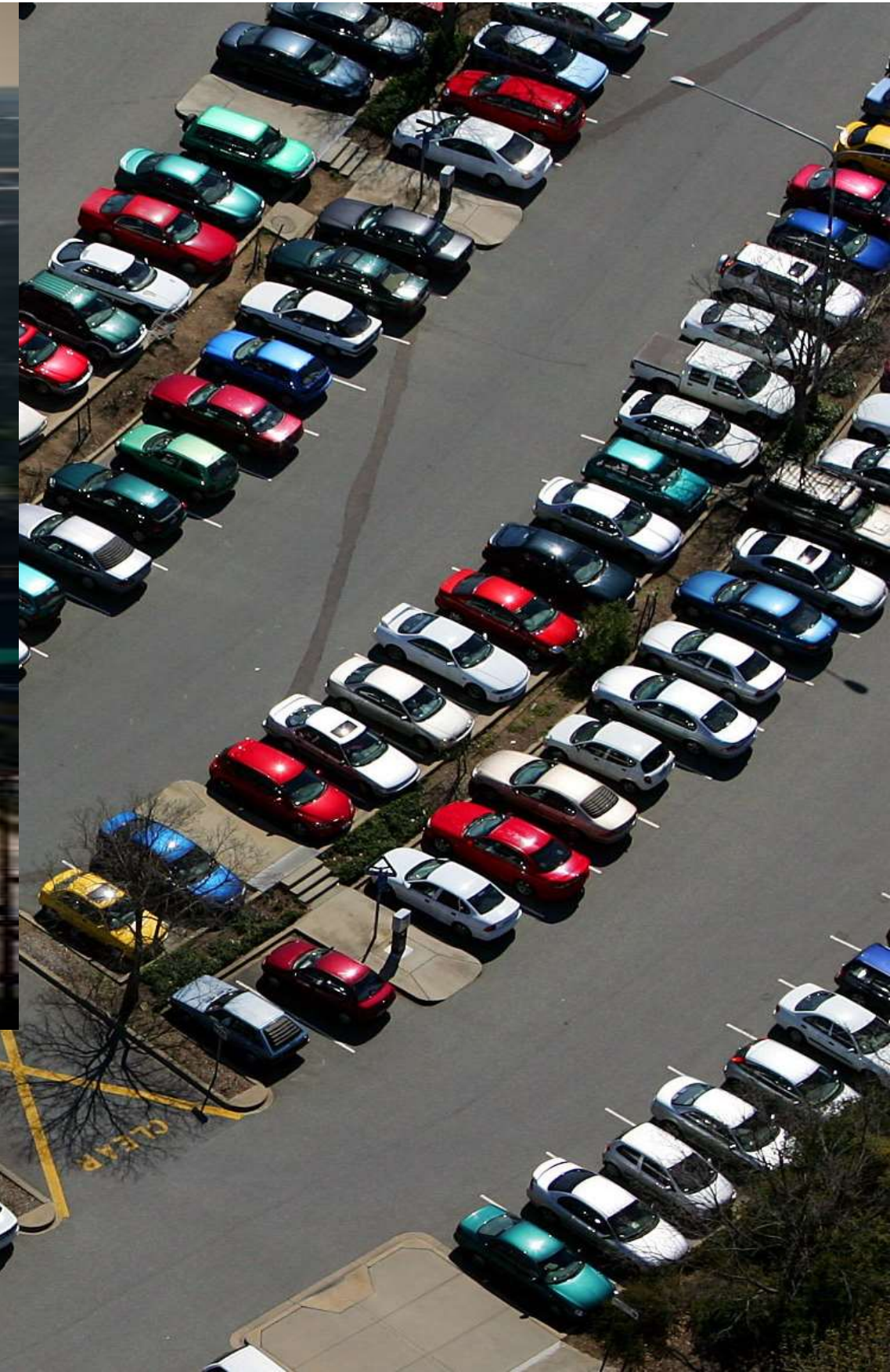


# Monoculture





# Monoculture





# Diminishing Returns for Region (to 2040)

Vehicle Miles Traveled (VMT): Up 55%

Highway capacity: Up 18%

**Vehicle hours in delay: Up 136%**

Government support: +\$120 billion

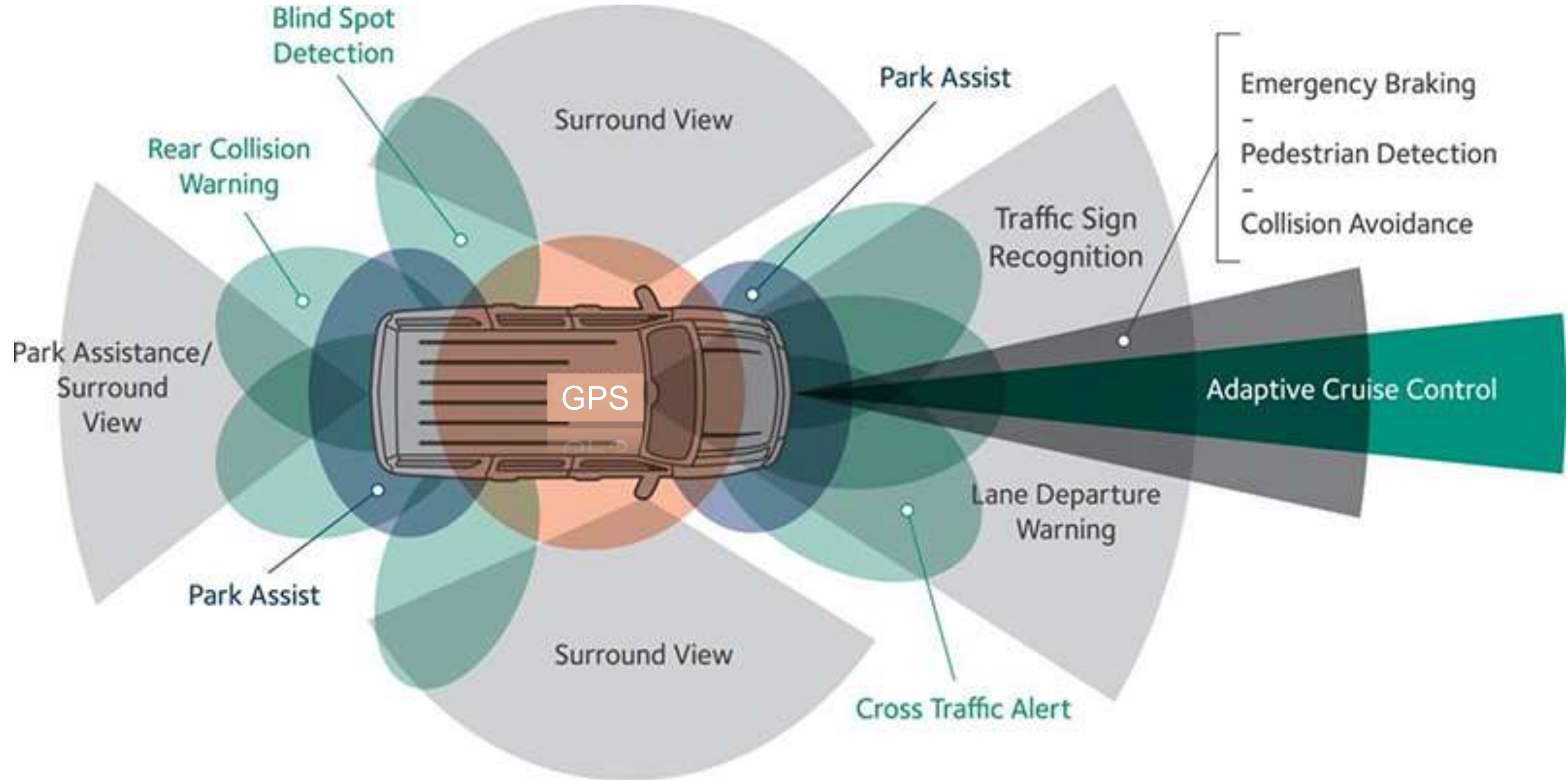
Second largest household expense

Highway deaths: 15,000

Highway injuries: 1,000,000



# Automated Vehicles: Autonomous







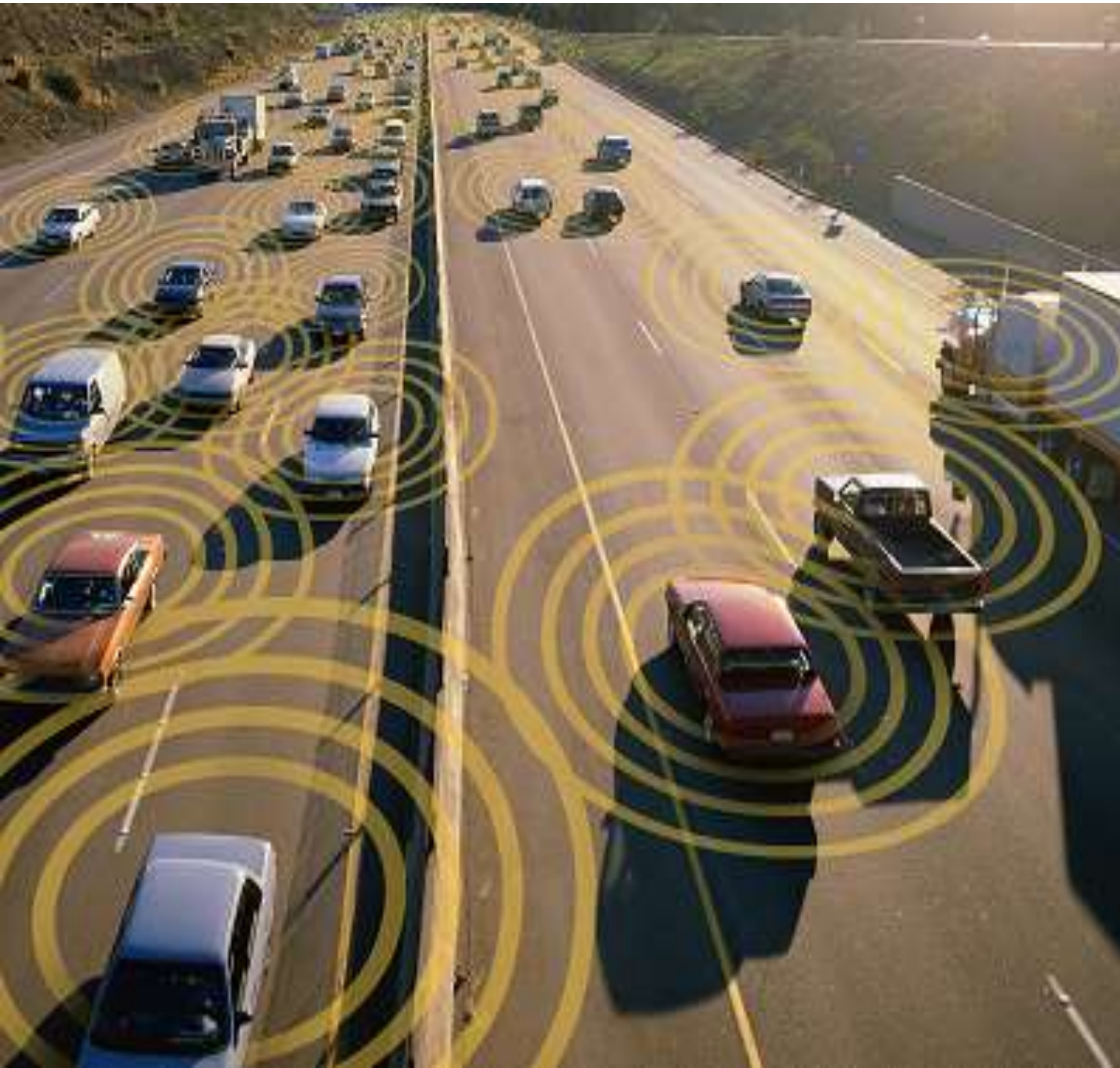


# Automated Vehicles: Connected





# Automated Vehicles: Vehicle-to-X

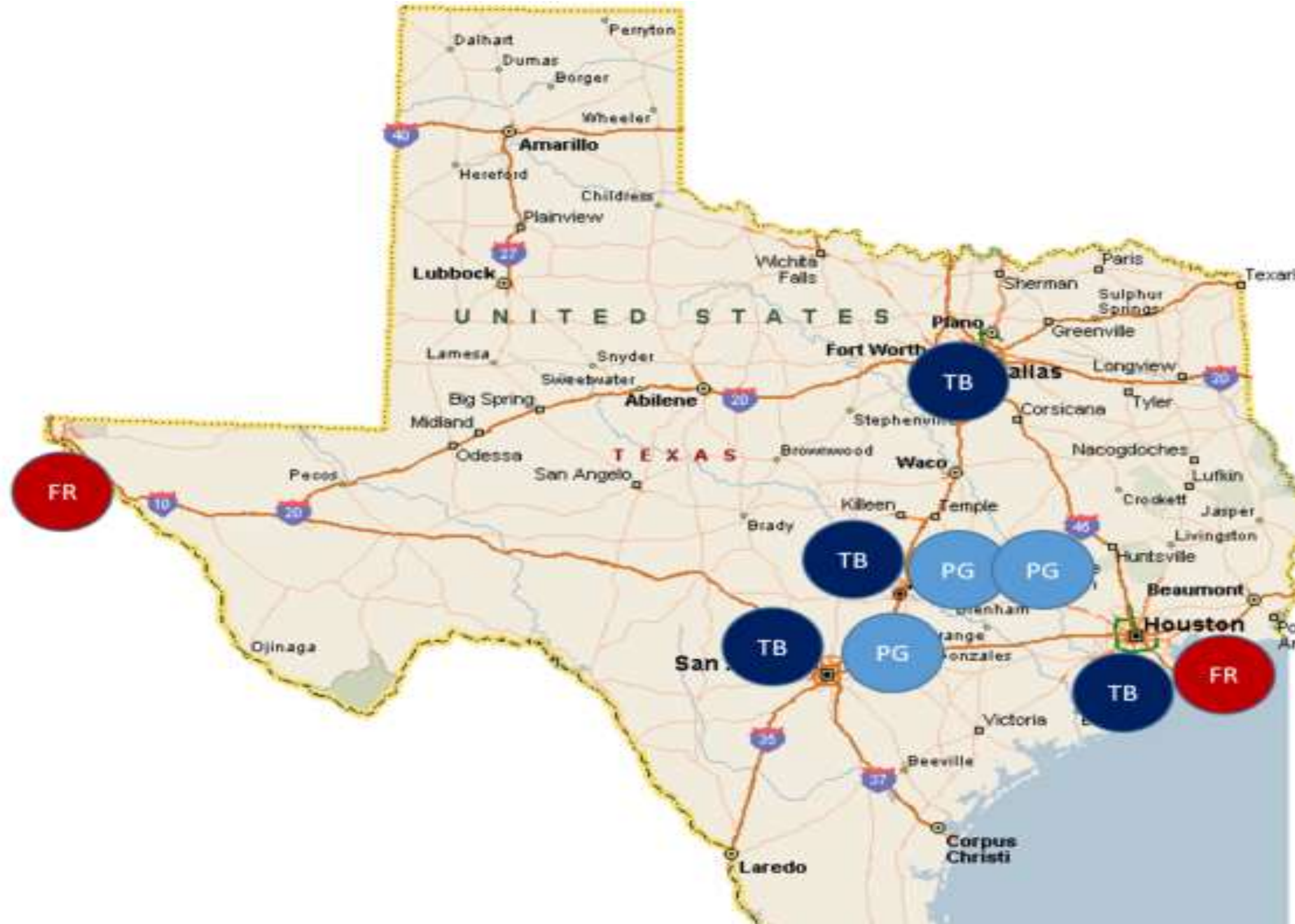








# Texas Automated Vehicle Proving Grounds





# Automated Vehicle Test Beds

UTA Campus - Low Speed





# Automated Vehicle Test Beds

## Arlington Streets - Medium Speed





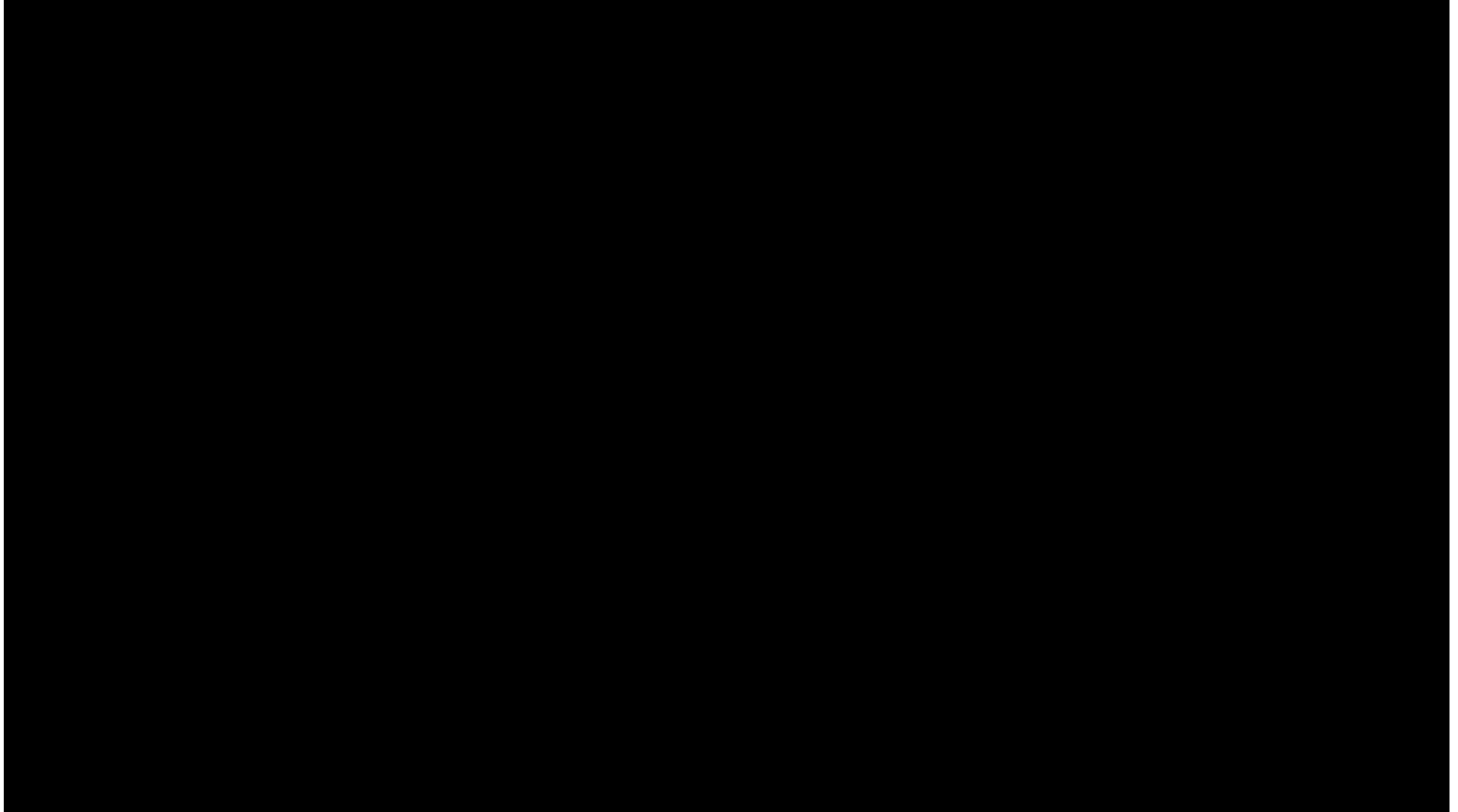
# **Automated Vehicle Test Beds**

**I-30 Corridor Including Managed Lanes - High Speed**





# North Texas Autonomous Vehicle Demo





# Traffic Signal to Vehicle Communication



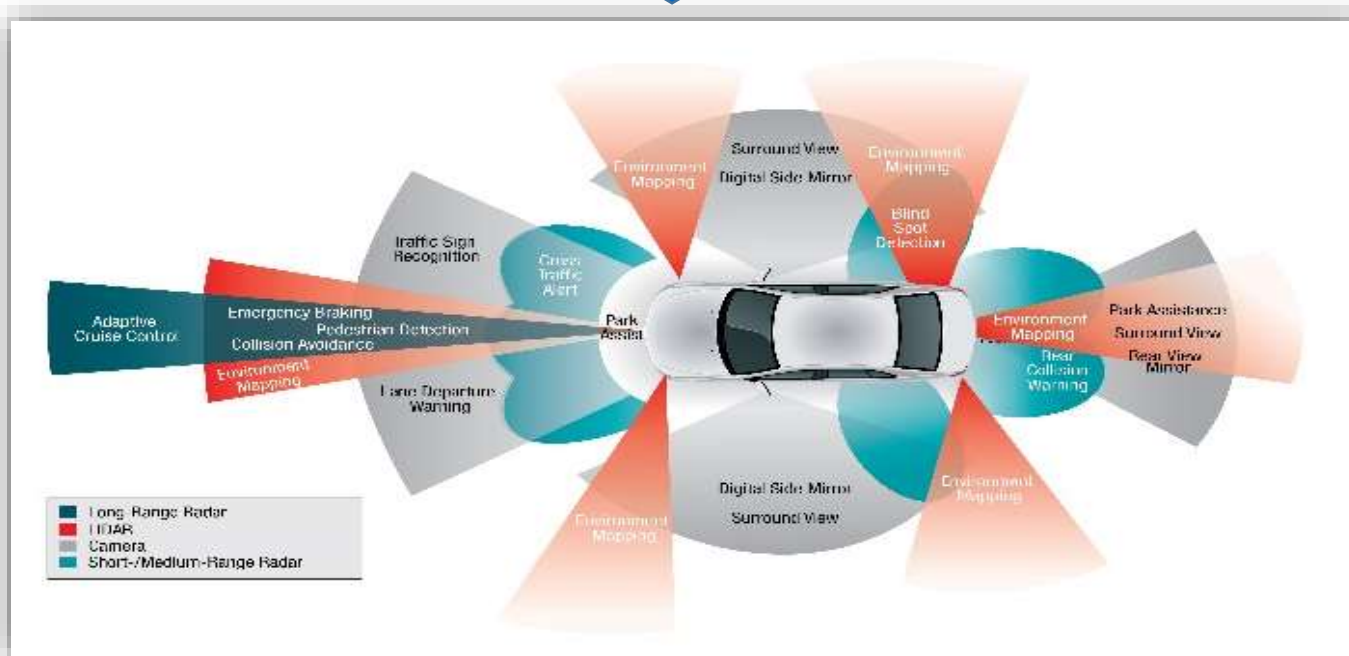


# Transportation Data Infrastructure

## Traffic Management Centers



## Travelers





# Shared Mobility and Automated Vehicles



lyft

UBER



# AVs Part of Sustainable Transportation







# Thank You

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