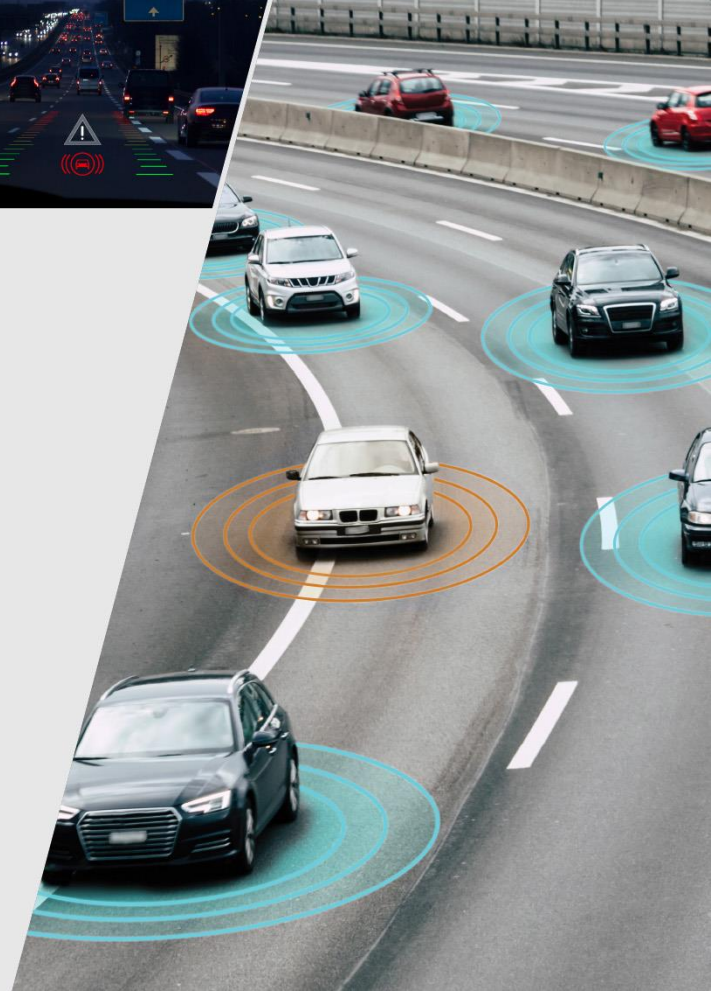




Welcome to Texas!





SB 2205, 85th Legislature (2017)

- SB 2205 creates a legal framework for the operation of automated motor vehicles in Texas and explicitly allows an automated motor vehicle to operate on highways in the state, with or without a human operator, under certain circumstances.

HB 1791, 85th Legislature (2017)

- HB 1791 authorizes an operator of a vehicle equipped with a connected braking system that is following another vehicle equipped with that system to be assisted by the connected braking system to maintain a clear distance or “sufficient space.”

SB 969, 86th Legislature (2019)

- SB 969 governs the operation of a personal delivery or mobile carrying device in a pedestrian area or on the side or shoulder of a highway.



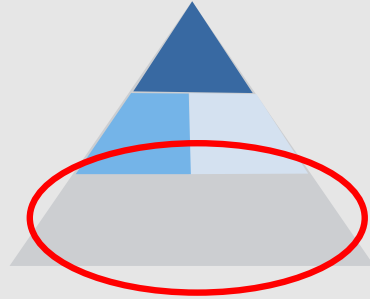
Takeaway:

Texas Law is one of the least restrictive in the United States and makes an attractive market for AV testing and deployment.

CAV Task Force mission and functions



- Prepare the state for Connected and Autonomous (CAV) advancements (good with the bad)
- Scope: surface and air transportation connected and autonomous vehicle technology and enablers, such as telecoms, and future infrastructure



ALLIANCE
FOR AUTOMOTIVE
INNOVATION



North Central Texas
Council of Governments

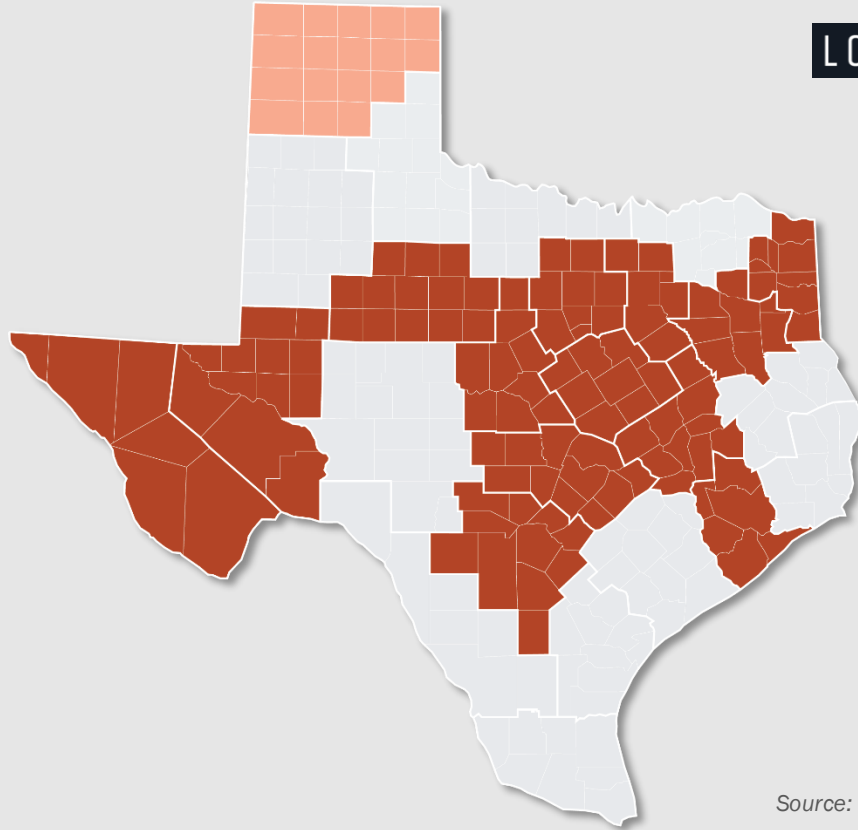


THE UNIVERSITY OF TEXAS AT AUSTIN
CENTER FOR TRANSPORTATION RESEARCH



Texas Department of Motor Vehicles





Source: TuSimple

LOCOMATION

Kodiak



isee



Aurora



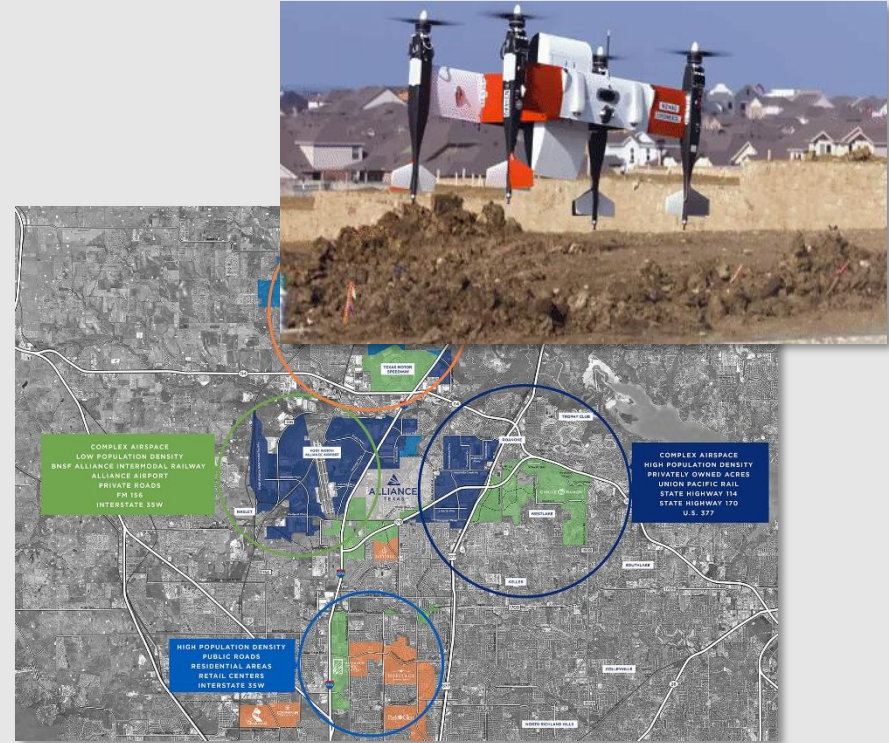
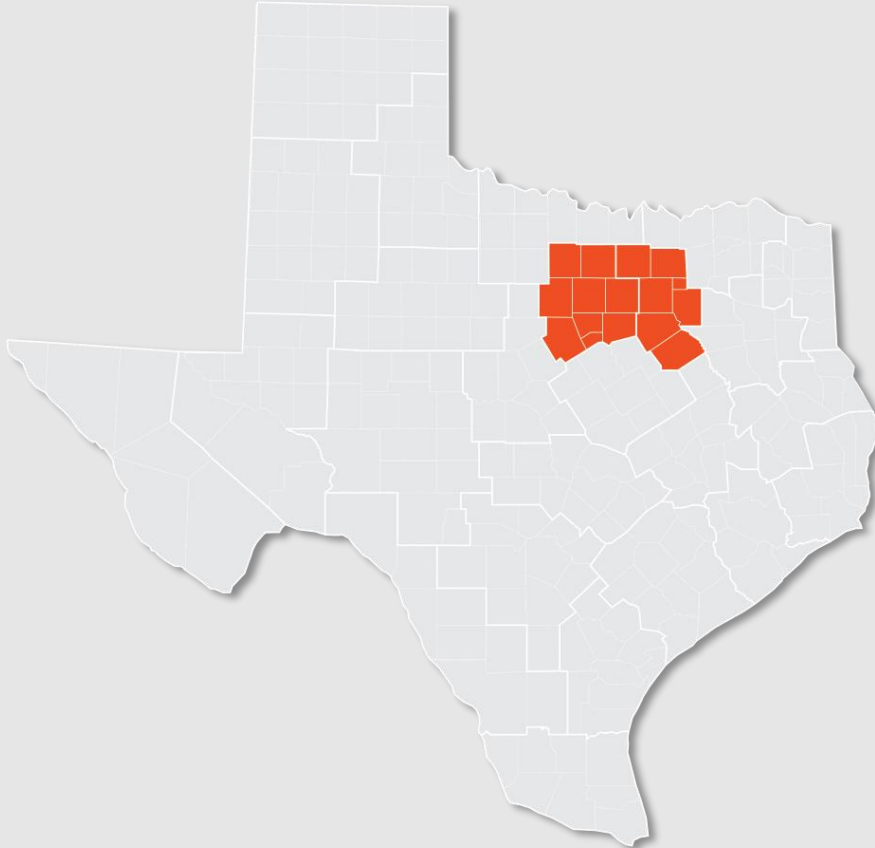
Uber

tu simple

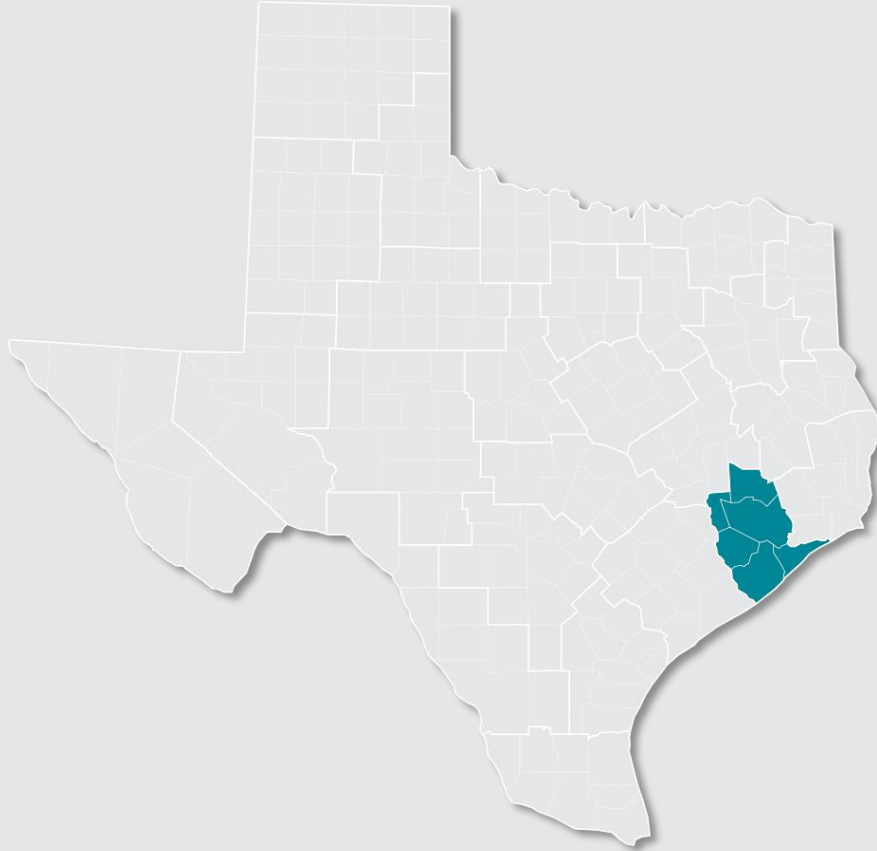
DAIMLER



Alliance Texas - Dallas & Fort Worth



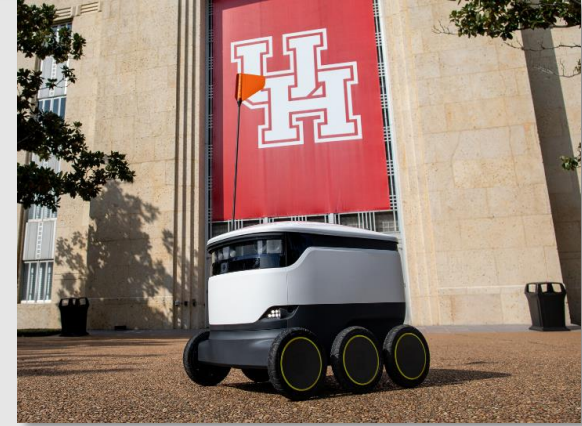
Nuro & Starship, Houston

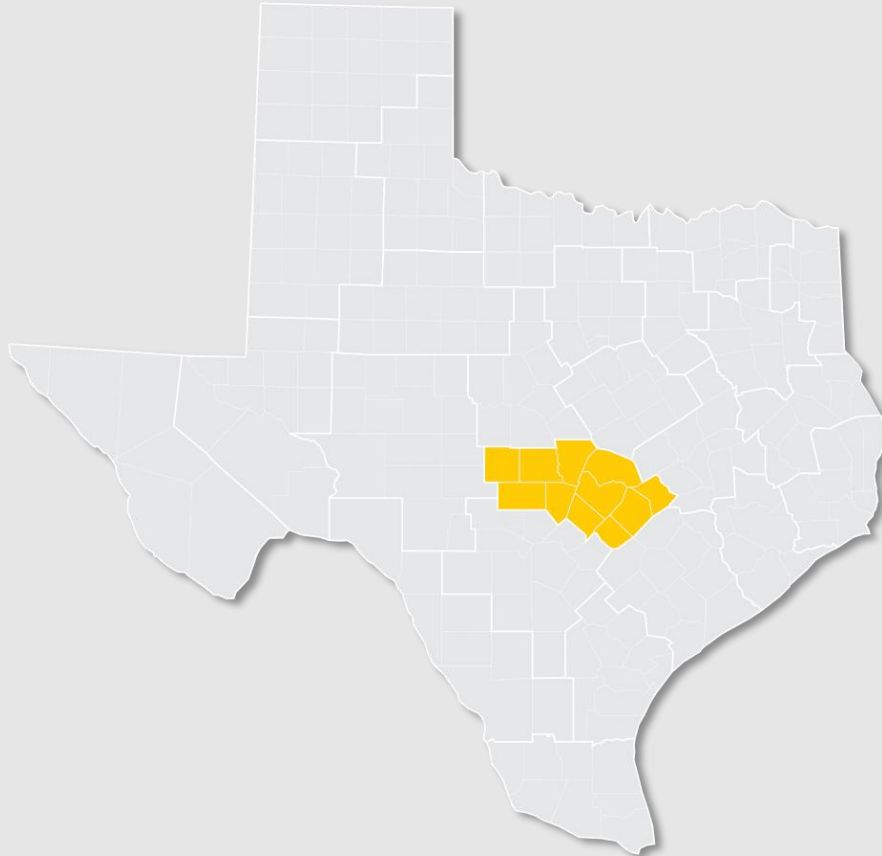


Source: Nuro



Source: UH,
Starship

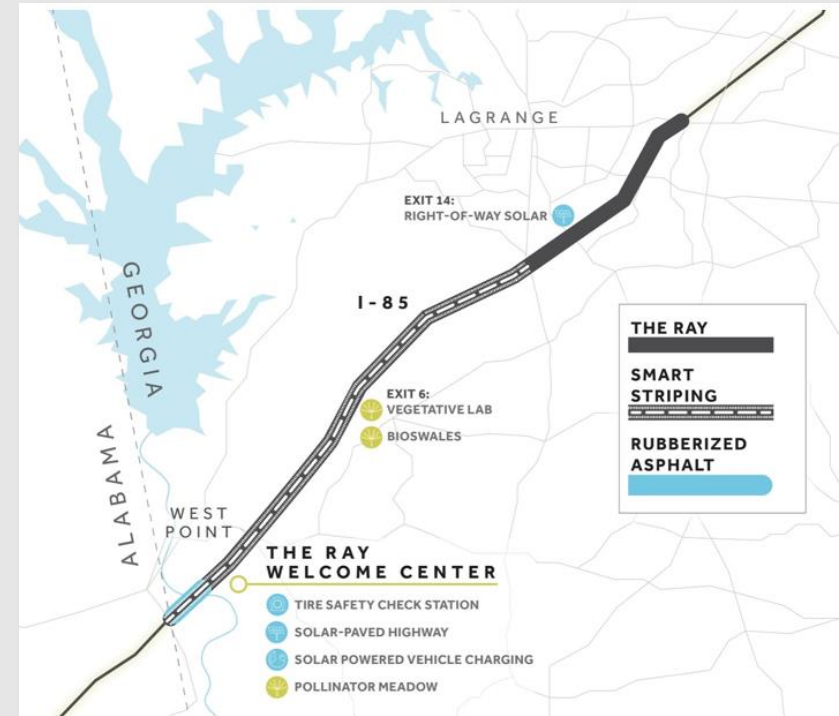




Source: Argo



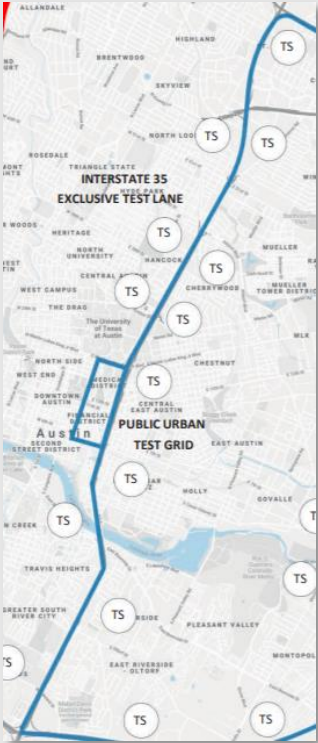
- Originated in Georgia along I-85 (Ray C. Anderson Memorial Highway)
- 501(c)(3) non-profit
- Experts in Public Private Philanthropic Partnerships
- Collaboration efforts on I-85
 - Right-of-Way Solar
 - V2X Connected Technology
 - Road Striping
 - Smart Planting and Bioswales
 - Vehicle Charging



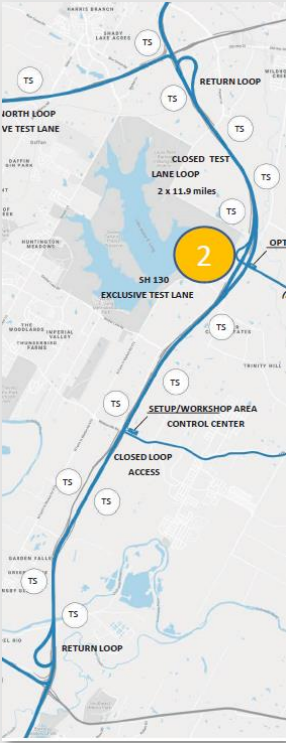
TxDOT Austin District's Three Priority Areas



Mopac



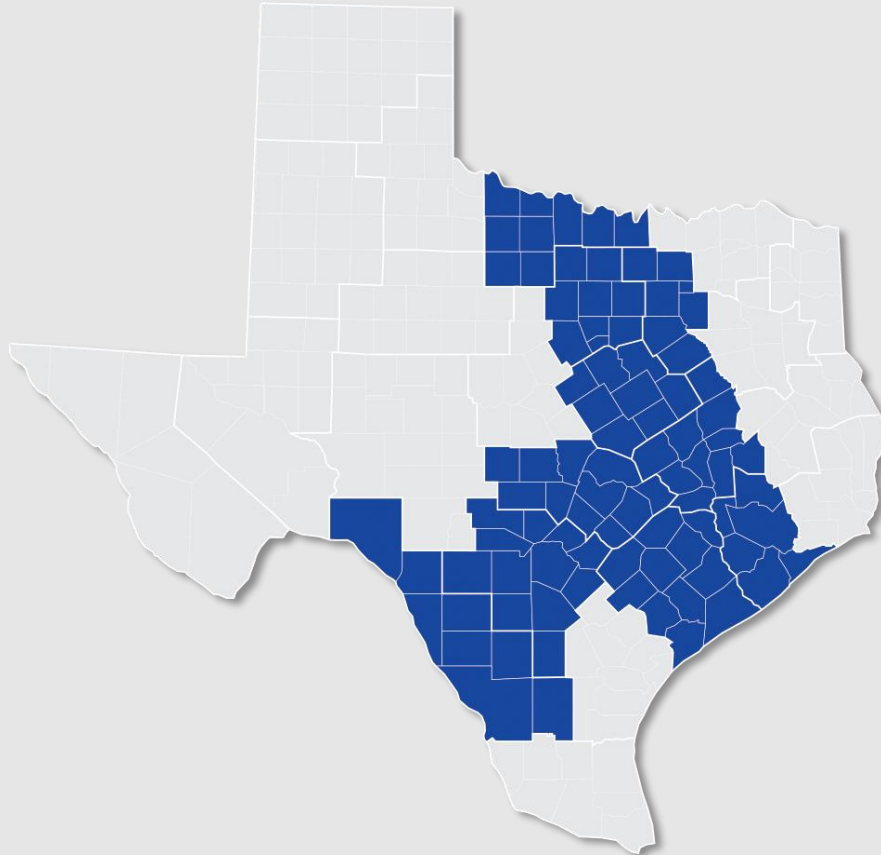
SH-130



Assesment Center

	Costs	Location	Coverage	AV Testing Scenarios
	1) Start phase 1 at \$ 50m – 80m 2) Final \$ 100m – 200m	<ul style="list-style-type: none">Close to Mobility Ecosystem PlayersHighway connectivitySoil conditionsPermitting (Zoning)		<ul style="list-style-type: none">Flexible Urban/SuburbanTraditional testing modulesFocus on labs/simulationConnectivity to public roads

Texas Connected Freight Corridors



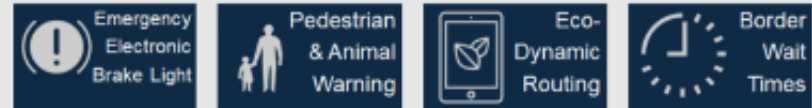
Tier 1



Tier 2



Tier 3



Source: <https://www.txdot.gov/inside-txdot/division/traffic/freight-corridors.html>



- Automated Vehicle Infrastructure, Connected Signing, and Data ConOps
- Blocked Rail Crossing Traffic Management System
- High-Resolution Advanced Freight Traveler Information System
- Safety Warning Detection System
- Smart Freight Connector
- Statewide Traffic Operations Center



<https://www.txdot.gov/government/partnerships/freight-planning/texas-freight-network-technology-and-operations-plan.html>



Recently Completed

- Evaluate Potential Impacts, Benefits, Impediments, and Solutions of Automated Trucks and Truck Platooning...

In Progress

- Defining Operational Design Domains (ODDs) for the Safe Blending of Levels 0-4 Connected and Autonomous Vehicles (CAVs)...
- Develop Roadway and Parking Design Criteria to Accommodate Automated and Autonomous Vehicles

Coming Soon

- Legal analysis of TxDOT's positions regarding CAV and data
- TCFC and cooperative automation
- Digital copy of TxDOT infrastructure
- Working with AV trucking companies

