

PROJECT PROPOSALS: *AV2.2/2.3*

PUBLIC OUTREACH MEETING

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Connected and Automated Vehicles Program

June 2021

AV2.2/2.3 BACKGROUND

October 2018: Regional Transportation Council approves “AV 2.0”

- AV2.1: Regional planning exercise for future mobility technology (\$1.5m)
- AV2.2: AV deployment support for local partners (\$10m)
- AV2.3: Strategic investments in AV services (\$20m)

September – November 2021: STTC/RTC funding availability announcements

November 2020: RTC approves consolidated project approach

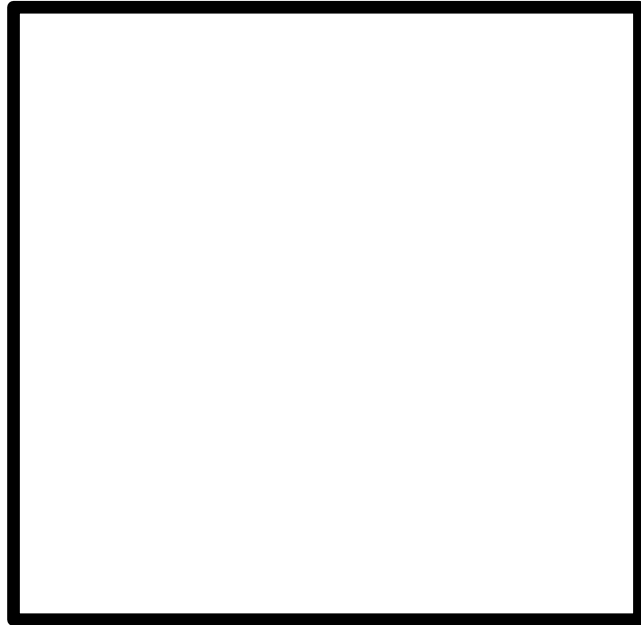
December 2020: Information forum for STTC members

December 2020 – March 2021: Staff technical support to interested parties and applicants

March 2021: Applicants submit proposals

April 2021: Staff review

AV FREIGHT: ZERO TO NETWORK



Aurora

Kodiak

tu simple

AV trucks making regular runs between DFW-Houston and other destinations



2017:



2021: DFW AV Truck Hub

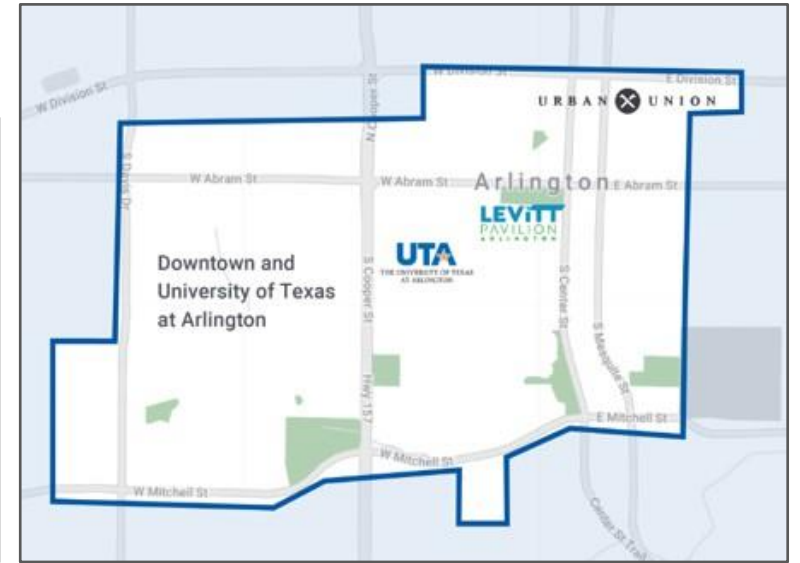
AV EVOLUTION: DEMO -> PILOT -> SERVICE



2017: Public demo



2019: Fixed route service pilots



2021: Area-wide service



NEXT STEP: REGIONAL AV PROGRAM

Multiple AV types: 18 wheelers to sidewalk delivery bots

Multiple use cases: Moving freight, people, and data

Workforce: Preparing tomorrow's transportation workforce

Infrastructure: Vehicles and infrastructure working together

Equity: Targeted use cases to support community needs

Economic development: DFW as innovation center

Regional coordination: Ongoing staff support for project sponsors

CEDAR VALLEY CAMPUS AV CLUSTER

Project Location: Dallas College Cedar Valley Campus and environs to the south.

Description: Use automated vehicles to serve the campus, neighboring “feeder” high school, community centers, and neighborhood. Workforce development component.



EASTFIELD CAMPUS COMMUNITY CONNECTOR

Project location: Dallas College Eastfield Campus and environs.

Description: Automated vehicle transportation for campus and neighboring communities in Dallas and Mesquite. Transit, job center, community connections. Workforce development component.



WORKFORCE DEVELOPMENT: EASTFIELD CAMPUS & CEDAR VALLEY CAMPUS PROJECTS

Description: Workforce development program for:

- (1) transportation technology;
- (2) trucking transportation; and
- (3) goods delivery.



PAUL QUINN COLLEGE COMMUNITY FOOD DELIVERY BOT SERVICE

Project location: Neighborhood immediately surrounding Paul Quinn College in South Dallas.

Description: Automated vehicle delivery service of produce from PQC's campus farm to nearby households (approx. 250 at a time). Includes equipping approximately 500 households over life of project with Internet access and training necessary to access bot delivery service and other opportunities.

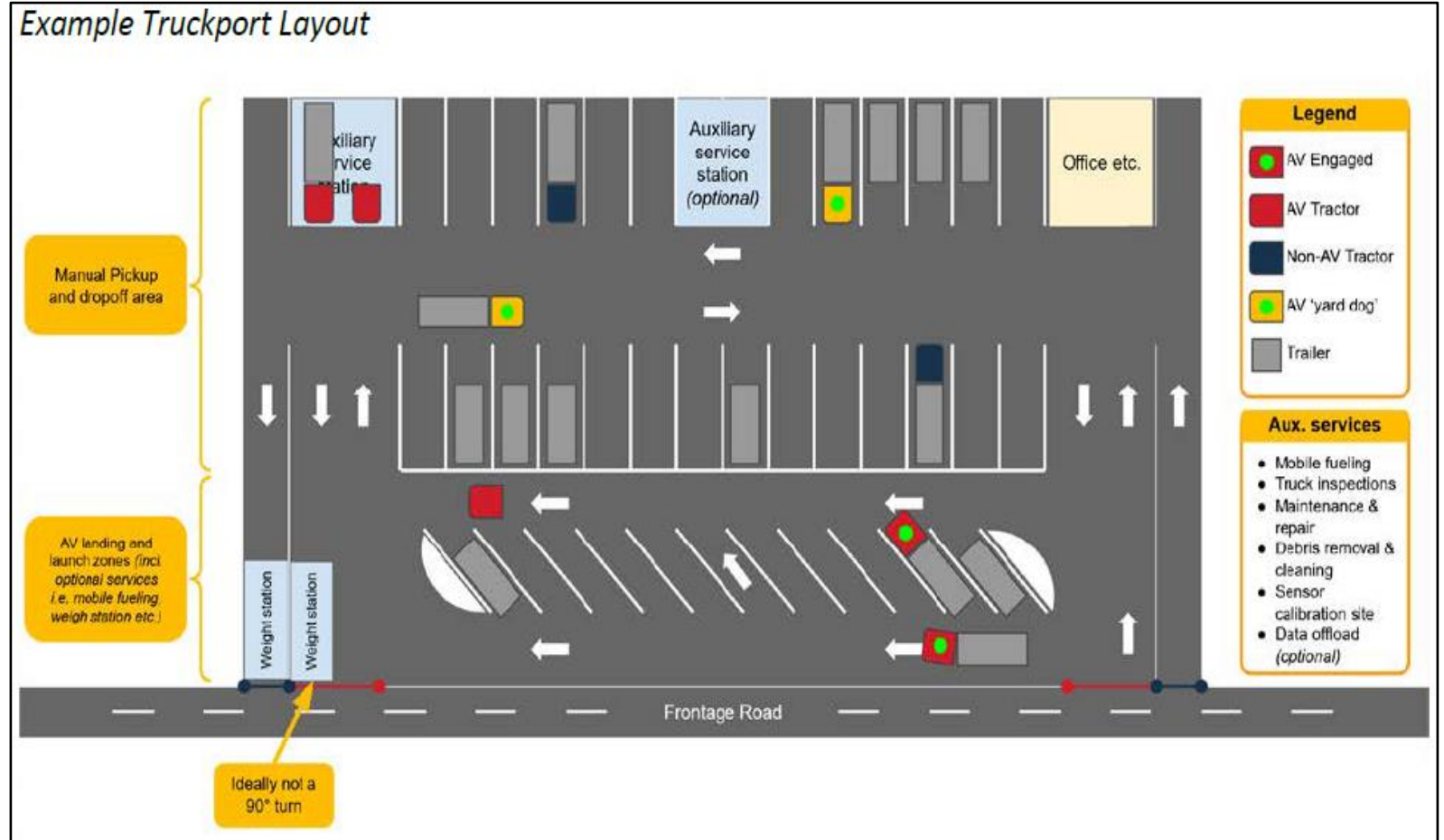
Low-income, Low-access to food – The map below is a representation of the above service area with an overlay of the USDA food desert designated neighborhoods, nearly the entire service area.



TARRANT AV TRUCKPORT

Project location: Northwest Fort Worth (I-35W/SH-170)

Description: Build and operate nation's first AV truckport where AV freight companies can pick up and drop off trailers. Serves as a first mile/ last mile stop for human driven trucks before the long haul in AV mode.



RICHARDSON CAV TEST BED & COMMUNITY CONNECTOR

Project Location: Northeast Richardson

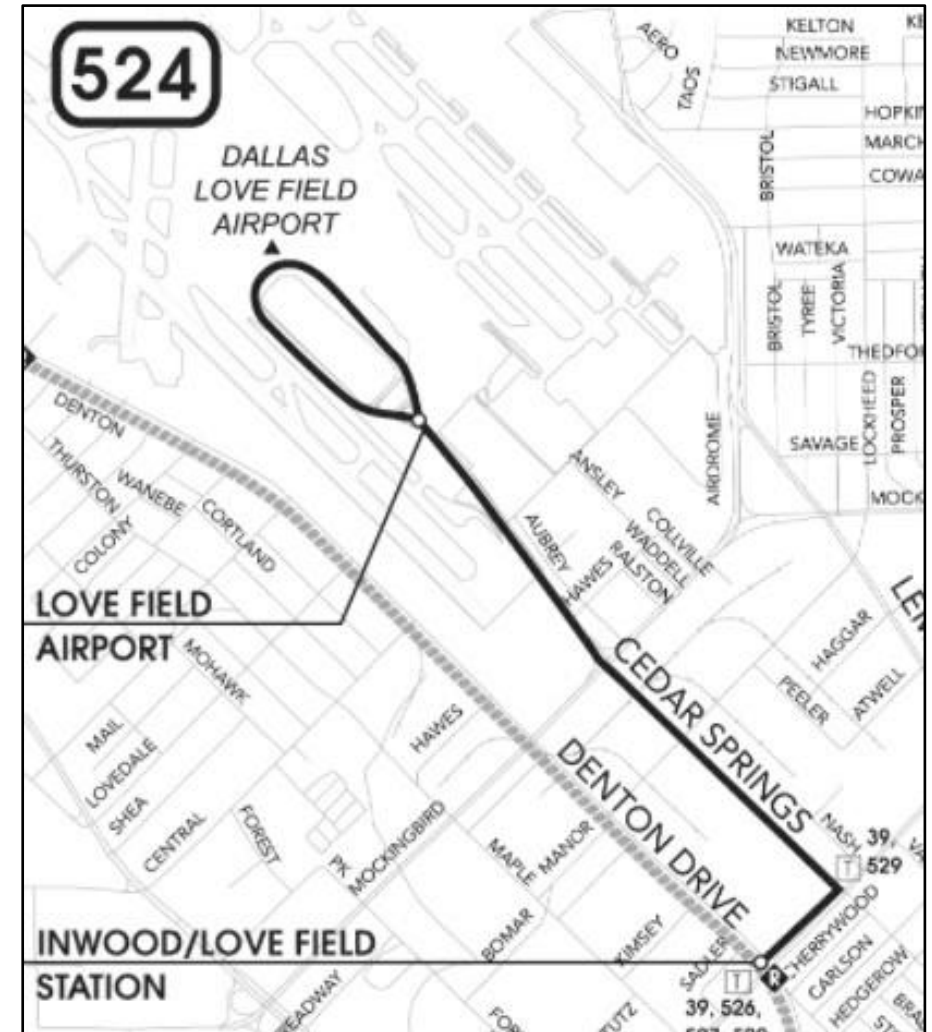
Description: Applying CAV solutions to intersections in the technology district to support AV operations as part of AV deployment serving a wide variety of destinations—including City Hall, senior-heavy neighborhood, transit-oriented developments, social service center, the Innovation Quarter, and new UTD Center for Smart and Connected Mobility.



DART LOVE LINK AV AIRPORT CONNECTOR

Project location: Service between Inwood Station and Love Field in Dallas.

Description: Four electric and automated buses serving an established route that includes a major airport (Love Field) and already has special route-branding.



SUMMARY OF AV2.2/2.3 PROJECTS

Item 10: Recommended AV2.2/2.3 Projects

Implementing Agency	Description	AV2.2: Infrastructure	AV2.3: AV Service	Local	Federal	Total (Local + Federal)	RTC TDCs	Agreement Expectation
Dallas College	Cedar Valley College AV Service/Workforce Development	\$1,150,000	\$2,840,000	\$810,000	\$3,990,000	\$4,800,000	0	Dallas College & TxDOT
Dallas College	Eastfield College AV Service/Workforce Development	\$1,150,000	\$3,560,000	\$990,000	\$4,710,000	\$5,700,000	0	Dallas College & TxDOT
NCTCOG	Paul Quinn College Food & internet delivery	\$250,000	\$1,325,000	\$0	\$1,575,000	\$1,575,000	375,000	NCTCOG & TxDOT
City of Fort Worth	I-35W AV Truckport	\$2,500,000	\$2,297,578	\$0	\$4,797,578	\$4,797,578	1,009,516	City of Fort Worth & TxDOT
City of Richardson	Richardson CAV Infrastructure	\$1,500,000	\$3,300,000	\$171,000	\$4,800,000	\$4,971,000	789,000	City of Richardson & TxDOT
DART	DART Love Link AV Bus Service	\$500,000	\$1,250,000	\$0	\$1,750,000	\$1,750,000	350,000	DART & FTA
		AV2.2	AV2.3	Local	Federal	Total (Local + Federal)	RTC TDCs	
Total		\$7,050,000	\$14,572,578	\$1,971,000	\$21,622,578	\$23,593,578	2,523,516	

NEXT STEPS

June 2021:

- Information item presented to RTC
- Action item presented to STTC

July 2021: Action item presented to RTC

Fall 2021: S/TIP approval expected

Summer 2022: TxDOT agreements expected to be finalized

FY23: Project implementation

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