

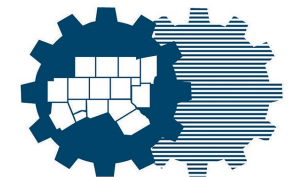
AV2.2/2.3 "Round 2" Projects

PUBLIC MEETING

Clint Hail, Transportation Planner

Transportation Innovation & Technology Program, NCTCOG

14 March 2022



**North Central Texas
Council of Governments**

AV 2.2/2.3 Funding Overview

2021

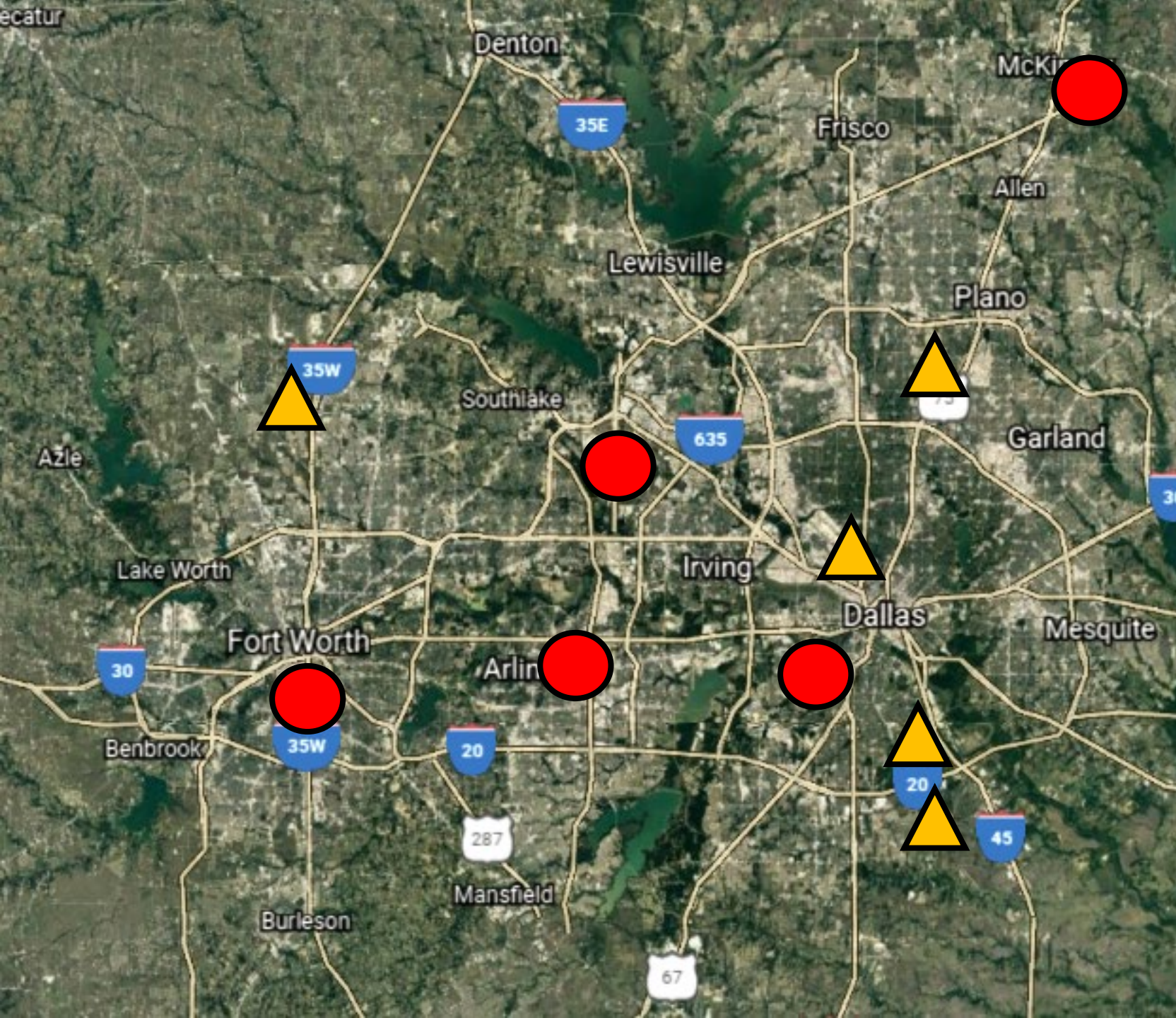
- Round 1 projects approved
- Remaining funds consolidated for Round 2

Round 1	
Dallas College	\$ 8.7M
DART	\$1.75M
FW Truckport	\$4.79M
Paul Quinn College	\$1.57M
Richardson	\$4.8M
TOTAL:	<u>\$21.6M</u>
REMAINDER:	<u>\$8.3M</u>

2022

- Round 2 projects
- Completed funding allocations

Round 2	
Arlington	\$600K
DFWIA	\$1.5M
McKinney/Dallas	\$5M
Fort Worth	\$4.2M
TOTAL:	<u>\$11.3M</u>
PROJECTS SHORTFALL:	<u>\$3M</u>

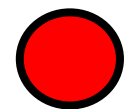


AV2.2/2.3 Project Map



Round 1

- Dallas College: AV Circulator/Workforce Dev
- DART: AV LoveLink
- Fort Worth: AV Truckport
- Paul Quinn College: Food Desert Delivery
- Richardson: IQ Testbed



Round 2

- Arlington: AV RAPID
- DFWIA: AV Parking/Curb Mgmt.
- McKinney/Dallas: AV Broadband Services
- S/SE Fort Worth Projects

AV2.2/2.3 Technologies Portfolio

Round 1	Round 2
Automated Vehicle (AV) Shuttle	App-Based Ridesharing
AV Trucking	Automated Parking
Connected Vehicle (CV)	Broadband Access/Virtual Transport
Neighborhood Delivery Bots	CV Emergency Alerts
Public Transit Buses	CV Traffic Signals
	Curb Management
	AVs as Service Delivery Tools
	Teleoperation

Arlington RAPID Tech Expansion

Project: Two-year continuation of Arlington RAPID, which has been growing ridership (200+/day) and has a predominately low-income/transit dependent ridership base. Adding teleoperation and emergency vehicle alert tech, which will help speed transition to fully driverless operation.

Team: Arlington, UTA, May Mobility (Toyota), Via

Amount: \$600K (net of redeploy of Dallas College Eastfield AV project funds)

DFWIA: Self-Parking Vehicle/Curb Management/Parking Management Test Site

Project: Automated parking test bed

1. Automated Parking using Low-Speed Vehicle Automation (LSVA)
2. Supervisory Parking Management (SPM)
3. Active Curb Management (ACM)

Team: DFWIA, NREL

Amount: \$1.5M



VIRTUAL TRAVEL: A NEW TRAVEL MODE

Benefits of substituting trips with “virtual travel”:

- Air Quality
- Mobility

Improving accessibility to destinations:

- Access to needs via technology

Challenges driving this approach:

- Lack of vehicle
- Lack of transit
- Lack of bike / sidewalks
- Income constraints
- Age / disability constraints

DEVELOPING IN TWO SIMULTANEOUS PHASES

PHASE 1

Autonomous mobile vehicle to residential locations:

- Open platform incubator

Locations:

- McKinney
- Dallas

PHASE 2

Access to broadband:

- Retrofit and new location

Location:

- Fort Worth

PHASE 1: VEHICLE-BASED TRANSPORTATION DEMAND MANAGEMENT AND ACCESSIBILITY

Use teleoperated and automated vehicles to deliver services to multiple users per vehicle/trip (Technology Incubator)

Takes users off the road for redundant trips

Provides access where none exist

Supports Congestion Management Plan (CMP) as part of Transportation Demand Management strategies supporting CMP

Project: McKinney/City of Dallas (subject to final approvals)

Recommendations in South and Southeast Fort Worth¹

Project	Funds	Source	Note
Technology Application of Expanded ZIPZONE Transit Service in Zip Code 76104	\$700K	CMAQ with Regional TDC	Added to \$300K Planning Submittal to FTA (two years)
Pilot Project on Design and Implementation of Equal Access to the Internet as a Travel Demand Management Tool: Southeast Fort Worth Lancaster and Rosedale	\$3000K	STBG with Regional TDC	\$200K RTC Local, Lancaster (new) and Rosedale (retrofit)
Western Application of Next Generation Traffic Signals: Emergency Vehicles and Transit Vehicles	\$500K	STBG with Regional TDC	Hospital District (emergency) and Lancaster (transit)

¹ Supporting City of Fort Worth Resolution 5028-12-2018 (Task Force on Race and Culture)

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