



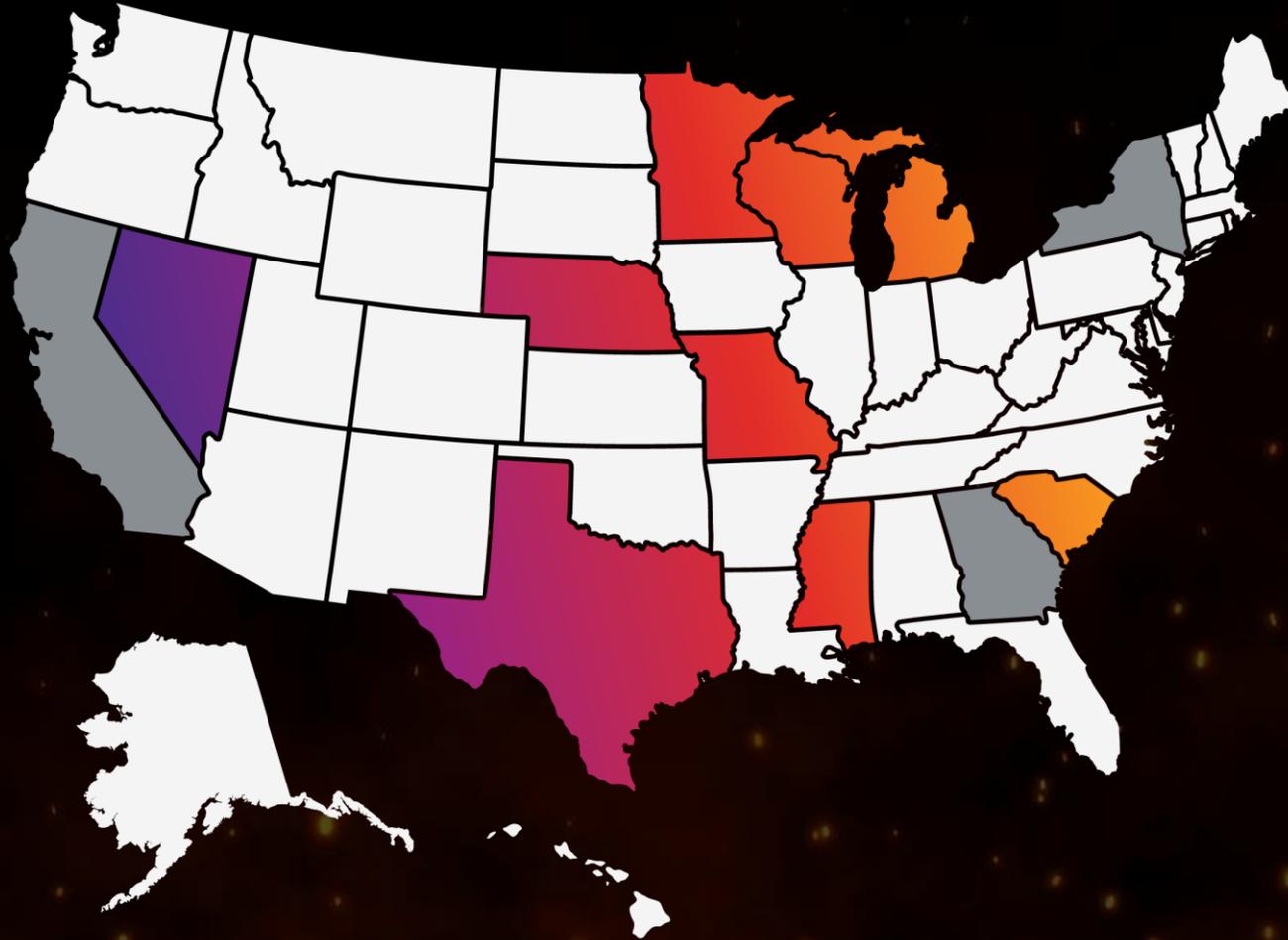
# Feonix

MOBILITY RISING

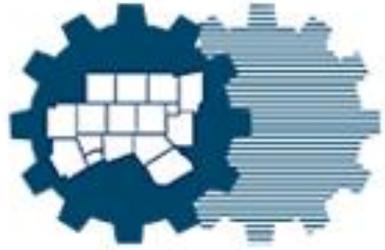
Presentation to City Council, McKinney Texas  
February 1, 2022

# Agenda

- About Us
- AV Deployment for Enhancing Health Equity Project & Funding
- Program Services
- Program Partners
- City Engagement
- Timeline & Next Steps



*We provide transportation solutions for the health and wellbeing of every person, in every community.*



North Central Texas  
Council of Governments

# Autonomous Vehicle Deployment for Enhancing Health Equity



## *Automated Vehicles Program 2.0 - AV2.2/2.3 Program Funding*

- *\$4,937,339 in Federal Funding*
- *\$250,000 in Matching Funds*

# Program Focus – Health Equity

- Supporting **Underserved Community Members** in McKinney & South Dallas, Texas
  - Focus on:
    - Families Living in Poverty
      - McKinney – **13,308 individuals** living at or below the federal poverty level
      - South Dallas – **88,957 individuals** living at or below the federal poverty level
    - Individuals with Disabilities
    - Seniors
- Increase **Access to Healthcare, Prescriptions, & Healthy Food** via Autonomous Vehicle informally called the “**Wellness Wagon**”



# Phoenix Wellness Wagon AV Services

- Telehealth at Individual Residence Parked in Driveway or Parking Lot
- Telehealth at Facility such as WIC Sign-up Location or Outside Senior Adult Day Center
- Delivery of Medications (Non-Narcotic)
- Delivery of Healthy & Fresh Food



*Note: Children between the ages of 11 - 16 will need a parent waiver to be in the vehicle alone and children under the age of 11 will always need a parent/guardian in the vehicle.*

# Feonix Wellness Wagon AV Services

- Wide Variety of Telehealth/Telemedicine Services Able to be Performed in the Vehicle to Support Patients:
  - Mental Health
  - Physical Health
  - High Risk Pregnancy
  - Chronic Illness
  - Nutrition Counseling
  - Asthma Treatment
- Medication Delivery Needed that Reduces ER Utilization:
  - Insulin
  - Albuterol
  - Others as Defined by Healthcare Providers
- Food Box Delivery Optimizes Vehicle Utilization due to Flexibility of Delivery Times



# Program Partners

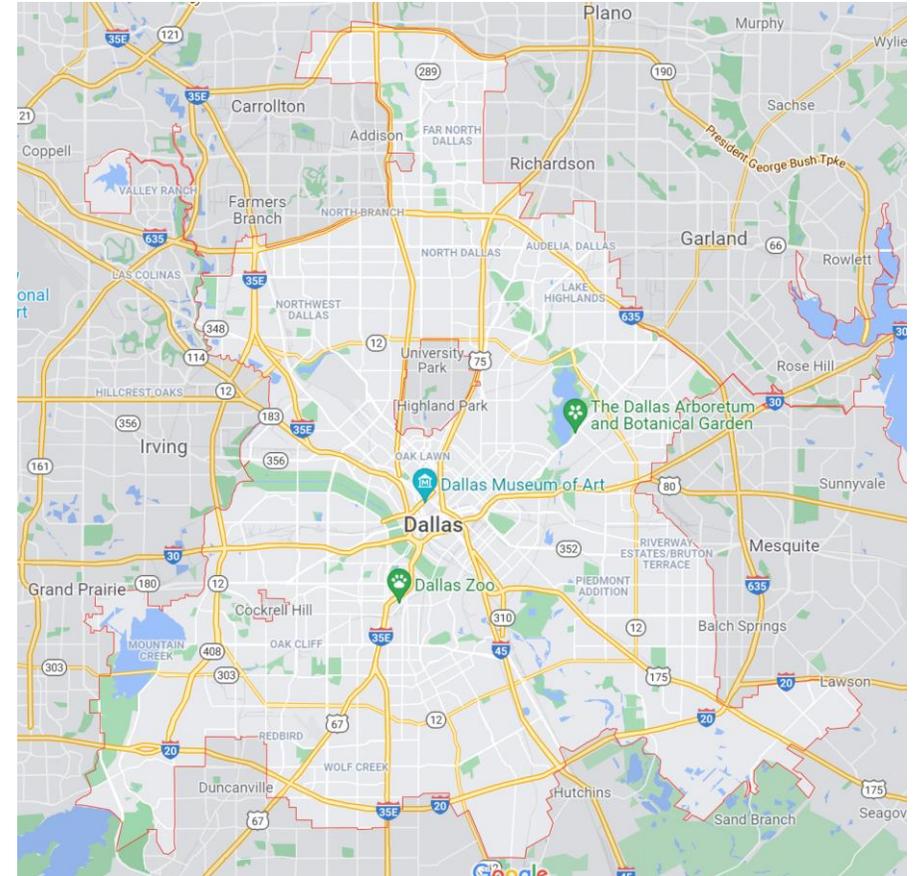
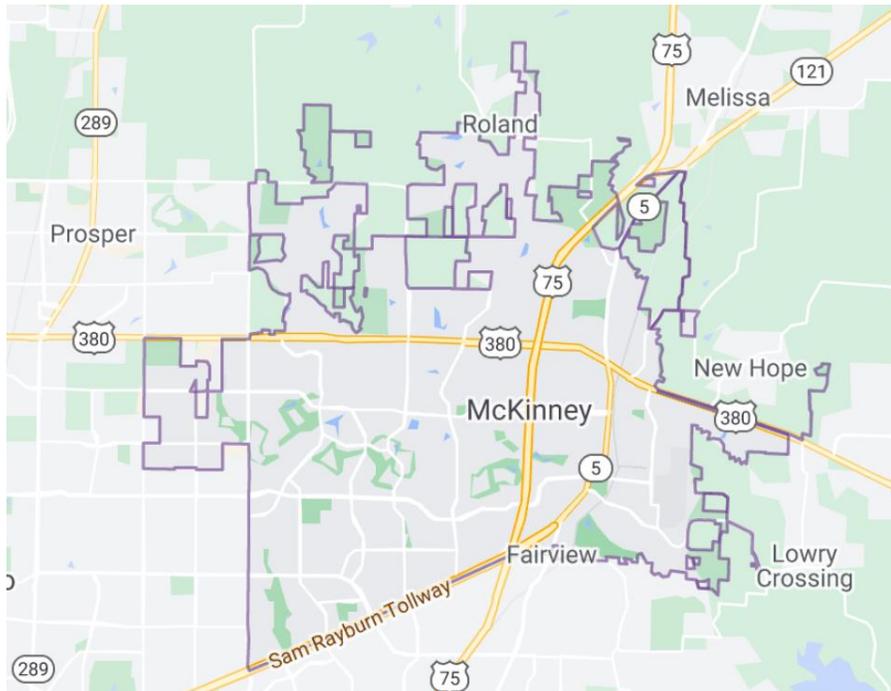
- Invene Technology
- Halo (Teleoperation)
- Spare
- Children's Health
- Parkland Hospital
- Superior Healthplan
- American Foundation for the Blind
- REACH – Center for Independent Living
- Dallas County Health & Human Services Older Adult Services
- DART
- Restorative Farms
- Senior Center Resources & Public Transit
- SMU
- Texas A&M Transportation Institute
- Toyota Motors North America
- Ford Motor Company
- May Mobility
- Autonomous Vehicle Alliance
- Accessible Mobility Collaborative



# Geography

The pilot will explore teleoperation in a variety of contexts ranging from gravel roads on the outskirts of McKinney to the brick historic inner-city streets of South Dallas.

## McKinney – Suburban & Semi-Rural



**Dallas – Focus on *South Dallas* - Highly Urban & Aging Infrastructure**

# AV Deployment & Operation

- Phased Deployment of 2 Feonix Wellness Wagon AV vehicles based in McKinney
  - Suburban Areas with Low Population Density & New Well-Designed Infrastructure & Signage
  - Rural Areas with Gravel Roads, Older Asphalt, & Limited Signage
- Phased Deployment of 2 Feonix Wellness Wagon AV vehicles based in Dallas
  - Services Focus in South Dallas - Urban Areas with High Population Density & Variety of Street Conditions



# Automation Phases for AV Teleoperation

**Phase 1:** Teleoperation with Safety Driver in Residential & Rural Routes/Deliveries

**Phase 2:** Teleoperation with Safety Driver in Residential, Rural, & Urban Routes/Deliveries

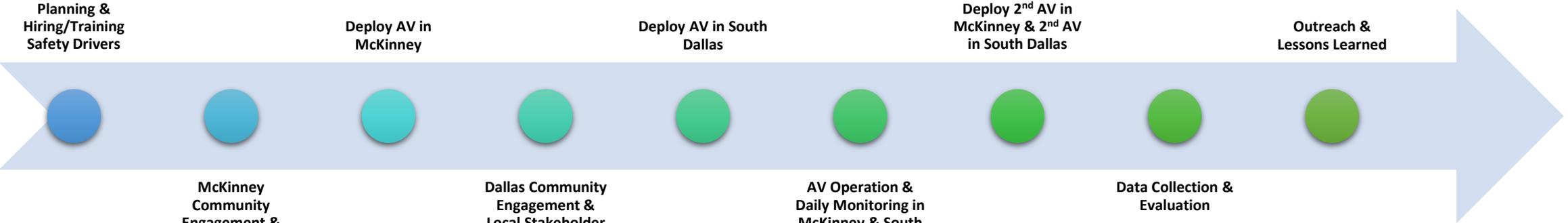
**Phase 3:** Teleoperation Independently for Established Reoccurring Routes/Deliveries and Customers Familiar with the Wellness Wagon

*When the vehicle is being driven in teleoperation mode the safety driver will be free to make notes and complete the patient reports (optimizing the drive time) as well as call and prepare the next patient to be ready for arrival, and check-in on patients that were visited the previous day.*

# Commitment from the City

- Lead Grant Oversight & Management to NCTCOG
- Provide Guidance on Service Area in McKinney
- Introductions & Collaboration for Community Outreach
- Coordination with Local Dept. of Transportation & Law Enforcement

# Timeline



McKinney Community Engagement & Local Stakeholder Review with City & Law Enforcement

Dallas Community Engagement & Local Stakeholder Review with City & Law Enforcement – Focus on State Fair Park Area

AV Operation & Daily Monitoring in McKinney & South Dallas Optimizing Utilization between Telehealth & Food Box/Prescription Deliveries

Data Collection & Evaluation



January 2023

June 2025

# Next Steps

- February 2022: Request McKinney City Council Resolution of Support and RTC approval
- February 2022: Submit all approved projects for February TIP cycle
- Late CY 2022: Projects approved for S/TIP
- Early CY 2023: Agreements developed and finalized with TxDOT



**Questions?**