# REJECT RFP 2022-025 PAVEMENT MANAGEMENT ASSESSMENT SOLUTIONS AND AWARD PAVEMENT ASSESSMENT CONTRACT
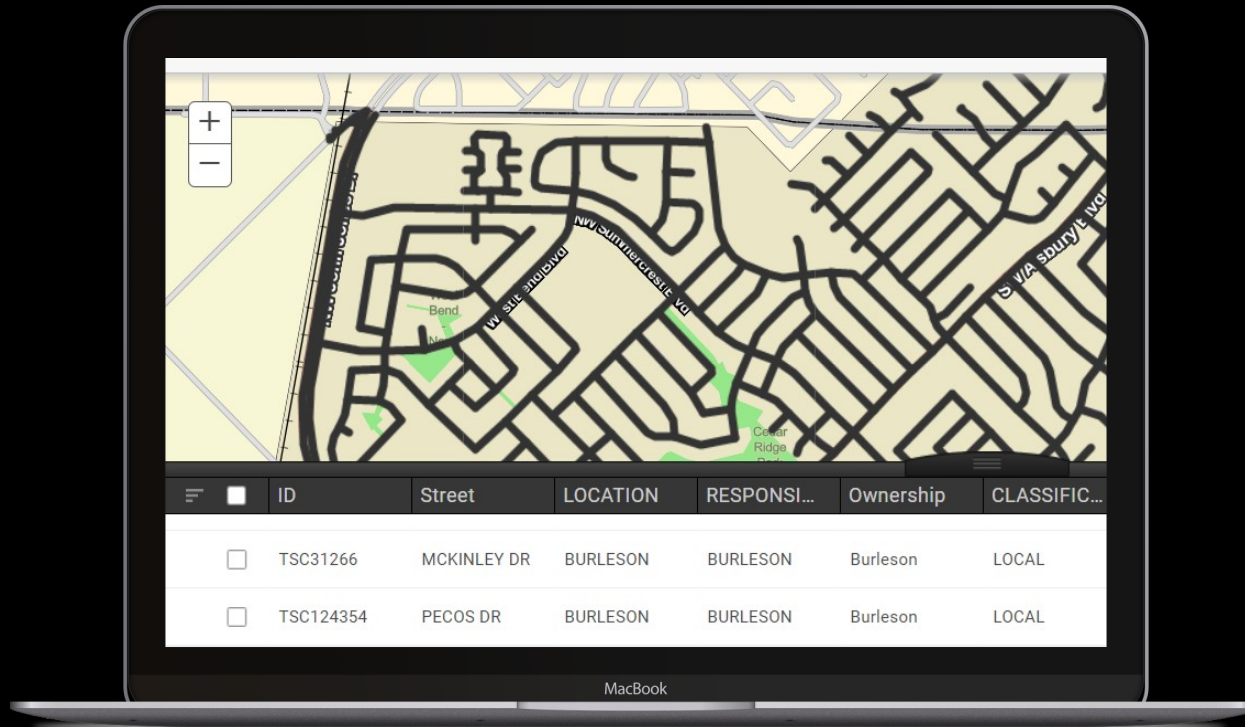
# PAVEMENT MANAGEMENT



### ✔ CENTERLINE MILE

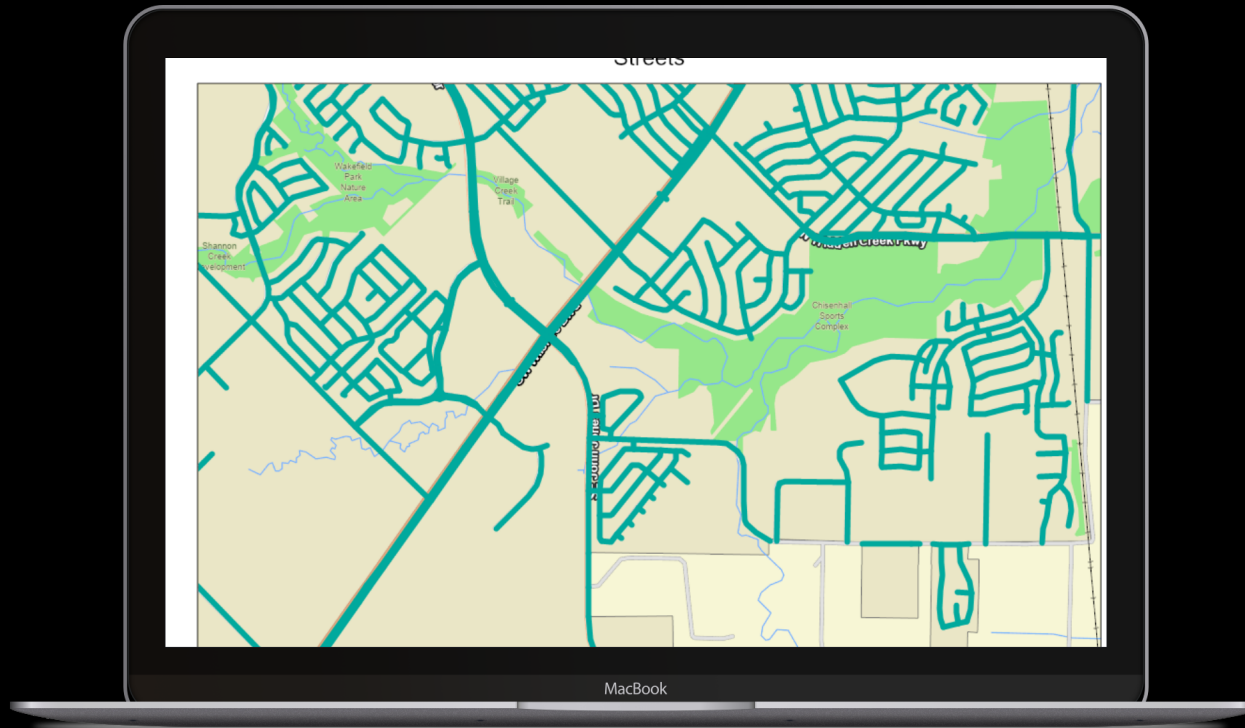Public Works maintains 216.4 centerline miles of roadway

### ✔ TREATMENT

Public Works utilizes multiple treatment methods based on condition and pavement type.

### ✔ ASSESSMENT

Condition is determined based on an automated assessment of the roadway.

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# PAVEMENT ASSESSMENT



### ✔ AUTOMATED COLLECTION

Vehicle drives the roadways and identifies defects within the roadway

### ✔ PAVEMENT CONDITION INDEX (PCI)

PCI is calculated from data collected on defects.

### ✔ ASSESSMENT

Completed every 3 years to update the Capital Improvement Plan and Maintenance schedule

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# RFP 2022-025

- **REQUEST FOR PROPOSAL**

Staff initiated a RFP for Pavement Management Assessment Solutions in 2022

Assessment included:

1. Automated collection of roadway surface defects and distresses which include cracking, potholing, rutting, weathering, etc.

2. Road roughness collection which identified rideability

3. Images of roadway defects

4. Images of overall roadway

5. Alternatives for additional asset collections

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# RFP 2022-025

- **SUBMITAL**

  Staff received two submittals for the RFP

  The submittals did not meet the minimum requirements of the RFP.

- **REJECT PROPOSALS**

  Staff is recommending to reject the proposals.

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# TXSHARE

- ## COOPERATIVE PURCHASING

  The North Central Texas Council of Governments (NCTCOG) operates and manages a purchasing cooperative named TXShare. This cooperative acquires contract pricing utilizing the Texas Local Government Code procurement policies and procedures. They offer services for professional services and items across multiple departments.

- ## PAVEMENT ANALYSIS SERVICES

  TXShare has current agreements with four vendors for pavement analysis services

  Staff reviewed the services and experience provided for all vendors

  Staff selected Fugro as the preferred vendor

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# FUGRO

- ## SCOPE OF SERVICES

  Project Intiation

  Review Current GIS

  Network Referencing

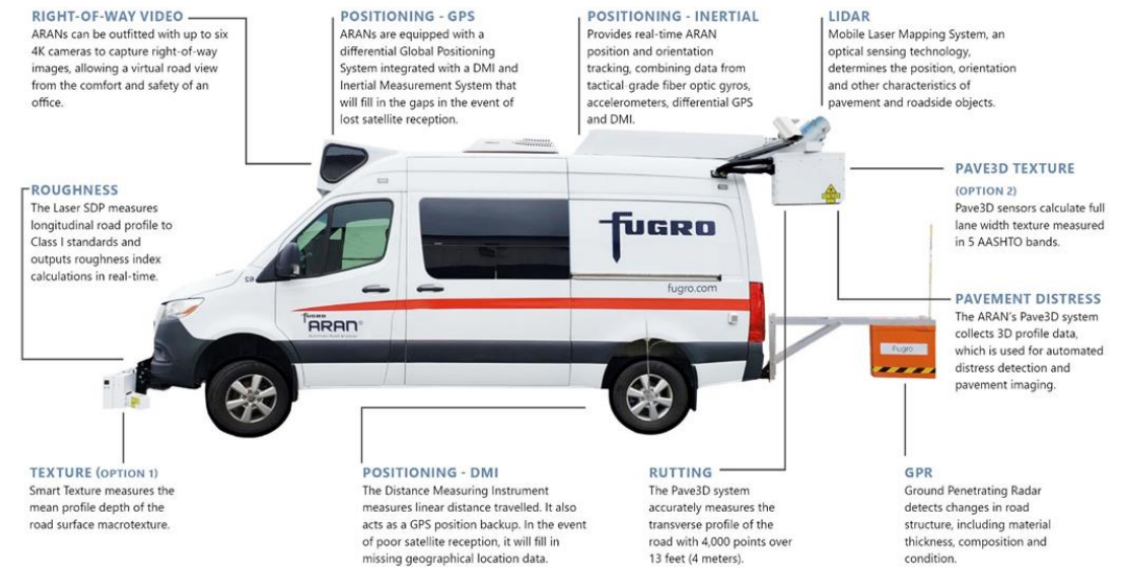  Pavement Condition Data Collection

  Data Processing and Analysis

  Pavement Condition Index (PCI) Calculation

  Deliverable Data Set which included

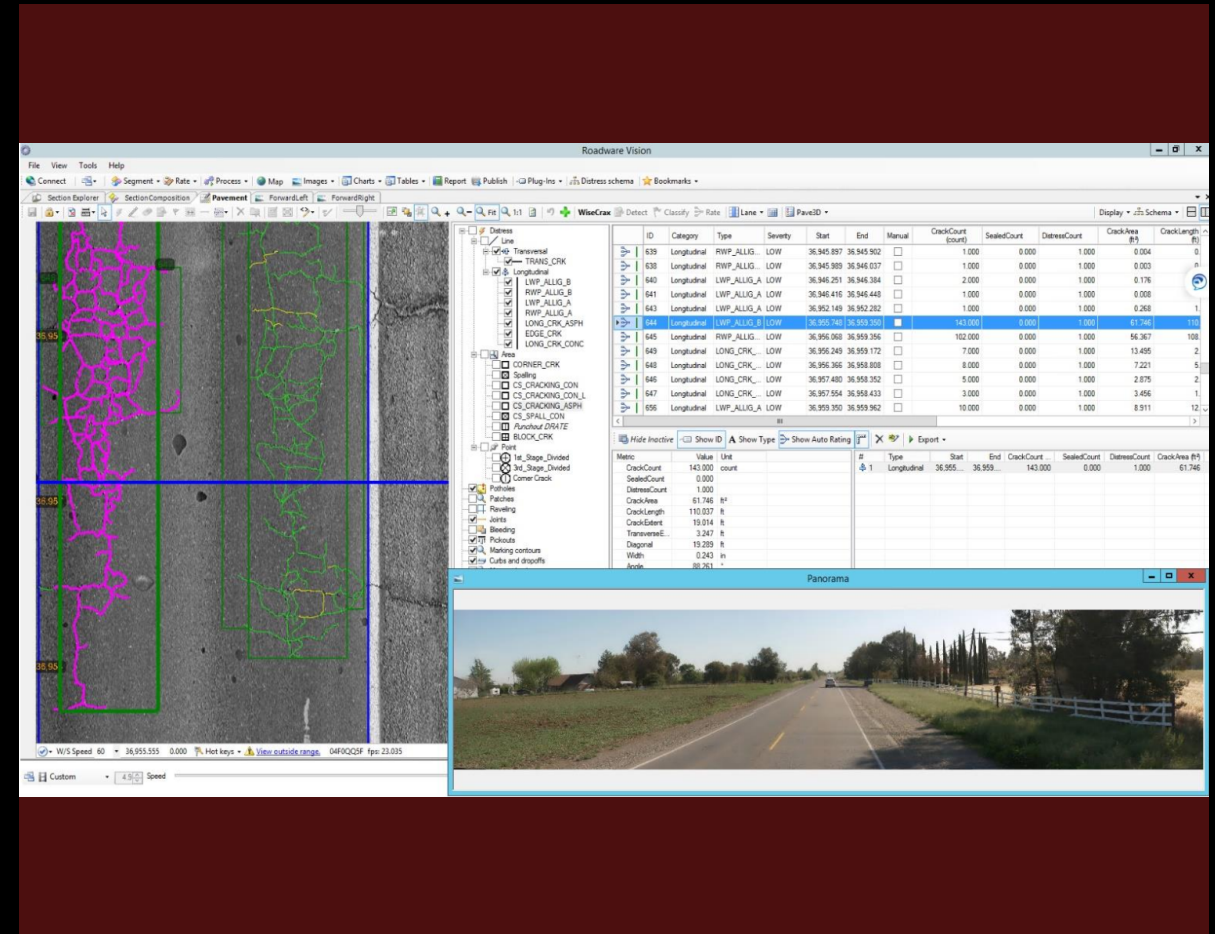  - PCI Score for all roadway segments
  - Asset Data for all roadways
  - Asset Data for all street signs, signals, and pavement markings



**RIGHT-OF-WAY VIDEO** — ARANs can be outfitted with up to six 4K cameras to capture right-of-way images, allowing a virtual road view from the comfort and safety of an office.

**POSITIONING - GPS** ARANs are equipped with a differential Global Positioning System integrated with a DMI and Inertial Measurement System that will fill in the gaps in the event of lost satellite reception.

**POSITIONING - INERTIAL** Provides real-time ARAN position and orientation tracking, combining data from tactical grade fiber optic gyros, accelerometers, differential GPS and DMI.

**LIDAR** Mobile Laser Mapping System, an optical sensing technology, determines the position, orientation and other characteristics of pavement and roadside objects.

**ROUGHNESS** The Laser SDP measures longitudinal road profile to Class I standards and outputs roughness index calculations in real-time.

**PAVE3D TEXTURE (OPTION 2)** Pave3D sensors calculate full lane width texture measured in 5 AASHTO bands.

**PAVEMENT DISTRESS** The ARAN's Pave3D system collects 3D profile data, which is used for automated distress detection and pavement imaging.

**TEXTURE (OPTION 1)** Smart Texture measures the mean profile depth of the road surface macrotexture.

**POSITIONING - DMI** The Distance Measuring Instrument measures linear distance travelled. It also acts as a GPS position backup. In the event of poor satellite reception, it will fill in missing geographical location data.

**RUTTING** The Pave3D system accurately measures the transverse profile of the road with 4,000 points over 13 feet (4 meters).

**GPR** Ground Penetrating Radar detects changes in road structure, including material thickness, composition and condition.

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# FUGRO

- ## COST OF SERVICES
  $151,250

  CIP funded

# OPTIONS

**RECOMMENDED**

### APPROVE

Approve a minute order to reject proposals for RFP 2022-025 Pavement Management Assessment Solutions

### DENY

Deny a minute order to reject proposals for RFP 2022-025 Pavement Management Assessment Solutions.

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# OPTIONS

**RECOMMENDED**

### APPROVE

Approve a a service contract with Fugro USA Land, Inc. through a cooperative purchasing agreement with the North Central Texas Council of Governments to perform a street pavement assessment in the amount of $151,150.

### DENY

Deny a service contract with Fugro USA Land, Inc. through a cooperative purchasing agreement with the North Central Texas Council of Governments to perform a street pavement assessment in the amount of $151,150.

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