



City of San Antonio

Agenda Memorandum

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Agenda Item Number: 4.

Agenda Date: 8/26/2019

In Control: Innovation and Technology Committee

DEPARTMENT: Office of Innovation

DEPARTMENT HEAD: Brian Dillard, Chief Innovation Officer

COUNCIL DISTRICTS IMPACTED: City-Wide

SUBJECT: Tour and Demonstration of Automated Vehicle Technologies at SwRI

SUMMARY:

The purpose of this item is to provide the Innovation and Technology Committee with an overview and demonstration of Automated Vehicle Technologies developed by SwRI.

BACKGROUND:

Southwest Research Institute[®] (SwRI[®]) is a leading provider of technologies for both commercial and military automated vehicles. Capabilities in research and development, as well as testing and standards, include:

- Localization solutions that allow automated vehicles to maintain their position on roadways.
- Precision following technologies enabling unmanned vehicles to react to traffic using visual and physical sensing data.
- Low-speed automated shuttles for use in campus settings, such as golf courses and amusement parks.
- Automated trailer spotting to help move freight at distribution centers and container terminals.
- A Connected Vehicle Affiliated Testbed supported by the USDOT's Research and Innovative Technology Administration, to support public and private sector research, testing and demonstrations of innovative, next-generation intelligent transportation technologies.

ISSUE:

This tour provided by Mike Brown, Institute Engineer and Jerry Towler, Senior Research Engineer at SwRI will showcase the potential of Autonomous Vehicles (AV) as an emerging mobility technology.

ALTERNATIVES:

This item is for briefing purposes only.

FISCAL IMPACT:

This item is for briefing purposes only.

RECOMMENDATIONS:

This item is for briefing purposes only.