Ongoing Implementation Initiatives Related to Cooperative Automated Transportation

16th Annual AASHTO International Day

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Culture eats strategy for breakfast.
- Peter Drucker
Connected Transit Signal Priority
Redwood Road (400 S. to 8020 S.)

- 25 intersections
- Bus Request Signal Priority
- Goal: Improve transit reliability
- Operational since Nov 2017
- Schedule reliability improved 6%

Dedicated Short Range Communication device (DSRC)
Provo-Orem BRT (UVX)

- 10.5-mile corridor
- 47 Intersections
- 25 Buses
- Operational December 3, 2018
- Study of effectiveness underway
Snow Plow Signal Priority

- 5 corridors
- 55 Intersections
- 46 Snow Plows
- Pre-emption when plowing
- Budget: $473,000
- Operational March 2019
- Study on Effectiveness
Autonomous Vehicle Shuttle Pilot

- AV shuttle deployed in several locations until March 2020
- Joint UDOT/UTA project
- Study potential uses and capabilities
- Evaluate public perception and attitudes
Panasonic | UDOT CV Data Ecosystem Project

Advancing Connected Vehicle Technology via creation of an INTEROPERABLE Connected Vehicle (CV) **Ecosystem** leverages broad data availability and yields safety and mobility benefits soon and into the future.
Acoustic Fiber Sensing

1. Convert roadside optical fibre into a traffic sensor
2. Each OptaSense installation can monitor up to 80km
3. Fibre-optic sensing technology creates an array of intelligent sensors
4. Detecting passing traffic along the entire monitored road
5. Delivering highly accurate and timely traffic flow indicators
6. Providing better information for traffic engineers and road users