The Infrastructure Owner's Perspective on Vehicle Technologies

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MISSION

Innovating transportation solutions that strengthen Utah's economy and enhance quality of life.



Six Trends Transforming Transportation

- Demographic Shifts

- Aging Population
- Millennial Attitudes toward Driving

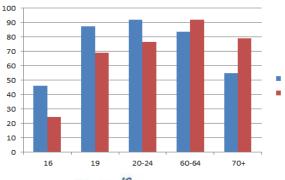
Big Data (and Analytics)

- Traditional Agency-Generated Data
- Outside Data Sources Aggregated Data

- Mobility as a Service

- Ride Sharing
- On-demand Vehicle Rental









Six Trends Transforming Transportation

- Vehicle Propulsion

- Electrification / Wireless Charging
- Hydrogen & Other Sources

- Connected Vehicles

- Vehicle to Vehicle (V2V)
- Vehicle to Infrastructure (V2I)
- Vehicle to Other (V2X)

- Automated Vehicles

- Partial Automation
- Full Automation (Autonomy)





Transforming to the Changes

Infrastructure Considerations / Modifications / Adaptation Support of Research and Evaluation Proactively Influence Policy Implement New Solutions

Redwood Road Connected Vehicle Corridor

11-mile urban arterial corridor

- 24 DSRC-Equipped Intersections
- Three DSRC Vendors
- Two Signal Controller Vendors

Conditional Transit Signal Priority

- Partnership with Utah Transit Authority
- Bus must be behind schedule
- Roadside unit: SPaT, MAP
- DSRC on-board bus: BSM, SRM



First DSRC / V2I Operational Corridor in United States



Vehicle Electrification / Alternative Fuels

SELECT In-Motion Charging

- Participation on SELECT Board
- Support of Research

Alternative Fuel Corridors

- Participation in EV Program Smart Mobility
- Support of Alternative Fuel Corridors



