



AGENDA

Deschutes County Intelligent Transportation System Plan Update Smart Cities Workshop

December 16, 2019
Trinity Episcopal Church, Brooks Hall
469 NW Wall Street, Bend
9 a.m. To 11:45 a.m.

Objective: *Brainstorm ideas for how the cities in Deschutes County can prepare for mobility in a Smart Cities future.*

Expected outcome: *Smart Cities framework to guide and identify for the future of mobility.*

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| 1. Welcome – Bend MPO, ODOT | <i>20 mins</i> |
| 2. Evolution of Intelligent Transportation in Deschutes County | <i>25 mins</i> |
| 3. Future of Mobility | <i>30 mins</i> |
| 4. Break | <i>15 mins</i> |
| 5. Bend’s Smart/Connected Future – Small Group Instruction | <i>10 mins</i> |
| Small Group Work | <i>30 mins</i> |
| A. <i>Multi-modal and Emerging Mobility</i> | |
| B. <i>Data: Big Data, Analytics, Dashboards, Warehouse</i> | |
| C. <i>Incident Management, Emergency Response, Resiliency</i> | |
| D. <i>Connected and Autonomous Vehicles (Traffic Operations as sub-category)</i> | |
| 6. Report out and Synthesize | <i>20 mins</i> |
| 7. Next Steps and Action Items | <i>15 mins</i> |

Key Strategies

TRAFFIC OPERATIONS AND MANAGEMENT:

- Multi-agency transportation and emergency operations center
- Signal Phase and Timing (SPaT) data shared via the internet
- Active traffic management/variable speeds
- Traffic monitoring cameras
- Integrated corridor management
- Special event traffic plans
- Advanced railroad grade crossing information
- Advanced Transportation Controller (ATC) upgrades
- Automated Signal Performance Measures (ATSPMs)
- Communications infrastructure gap closure
- Intersection safety analytics system
- Technology for bicycle and pedestrian safety, including bicycle detection and counting, and bicycle signal timing
- Accessible pedestrian signals (APS)
- Ramp metering
- Truck signal priority

PUBLIC TRANSPORTATION MANAGEMENT:

- Mobility management
- Transit signal priority
- Flexible park and rides during special events and throughout the summer
- Real-time transit arrival information
- Fleet electrification plan
- Transit pass bundled with other products and electronic payment system enhancements
- Automated passenger counting

TRAVELER INFORMATION:

- Variable message signs
- Regional parking information systems
- En route traveler info with various media (text, 511, etc.)
- Connected vehicles
- Pre-trip information

INCIDENT AND EMERGENCY MANAGEMENT:

- Scenario planning for emergency response
- Strategic planning with significant power loss
- Information about roadway constraints on diversion routes
- Rapid response situational awareness capabilities (e.g. drones)
- Centralized emergency vehicle preemption (EVP)
- Evacuation planning, route designation, and enhancements

MAINTENANCE AND CONSTRUCTION MANAGEMENT:

- Smart work zone system (en route warnings)
- Regionwide construction work zone and detour management and monitoring
- Infrastructure monitoring technology
- Enhanced snow plow operations
- Winter road status and work zone status information sharing system

DATA MANAGEMENT AND PERFORMANCE MEASUREMENT:

- Dashboard for regional data warehouse
 - Automated data collection
 - Automated performance reporting
 - Travel time monitoring system
- Open data sharing with statewide clearinghouses
- Open transportation data sharing with regional partner agencies
- Data integration with third-party transportation data providers
- Traffic monitoring video sharing with other agencies