

WSRTC Incubator Project Ideas

Current Incubator Projects

- Year 1 Technology Incubator: *Data Quality for Aggregation and Dissemination of DOT Traveler Information: An Analysis of Existing System Best Practices*
- Year 1 Safety/Operations Incubator: *Evaluation of the Fredonyer Summit Icy Curve Warning System – Before and After Study of Long-Term Effectiveness*
- Year 2 Technology Incubator: *Bluetooth Evaluation for Siskiyou Summit Chain-Control Chain-Up Area North of Redding*
- Year 2 Safety/Operations Incubator: *Long-Term Operational and Safety Impacts of Radar Speed Signs*

Incubator Project Ideas

- Research availability, applicability, and usability of a portable CCTV system
- Research availability and applicability of new technologies to provide rural access nodes for ITS elements where wired power and communications do not already exist.
- 700MHz medium speed (32 to 64K) data communications, and supporting IP microwave infrastructure.
- Improving ITS procurement
- Wrong Way Vehicle and Queue Detection at on/off ramps
- RF ID with Sensys Networks systems for Arterial Travel Times
- Bluetooth and other passive ID technologies for weather-related rural travel times
- Radar curve speed warning systems
- Mobile cameras on incident response and/or snow plow trucks for improved TMC operations
- Evaluation of photo speed enforcement in work zones
- Solar powered and LED illumination for rural applications
- LIDAR for accident reconstruction
- Obtain current state of practice on oversize vehicle detection and warning
- MDSS survey to develop more consistent winter operations across a defined WSRTC region.
- Advanced Transportation Controller (ATC) platform development and sharing
- Mobile applications for updating information on ITS field elements
- Condition rating system for ITS assets
- *Unmanned Aerial Vehicles (UAVs) for rural transportation applications - Presently being pursued by a pooled fund study led by WSDOT.*

If you have an idea for an incubator project you would like to add to this list for discussion and consideration, please send it to Doug Galarus via email at dgalarus@coe.montana.edu.