

Rural

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TPF-5(241) / TPF-5(494) Western
States Rural Transportation
Consortium

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Task Manager:
Sean Campbell
Transportation Engineer, Electrical
(Specialist)
sean.campbell@dot.ca.gov

Western States Rural Transportation Consortium

Updating and Evaluating Caltrans ITS Infrastructure

WHAT IS THE NEED?

Chartered in 2010, the Western States Rural Transportation Consortium (WSRTC) is a pooled fund comprised of the California, Oregon, Washington, Nevada and Utah departments of transportation and is facilitated with help from the Western Transportation Institute at Montana State University.

The WSRTC facilitates and enhances safe, seamless travel throughout the western United States. The WSRTC promotes innovative partnerships, technologies and educational opportunities to meet these objectives. Additionally, it provides a collaborative mechanism to leverage research activities in a coordinated manner to respond to rural transportation issues among western states. The Consortium focuses on technology transfer/education and incubator projects centered on the pillars of technology, operations and safety.

WHAT ARE WE DOING?

Chartered in 2010, the WSRTC is a pooled fund comprised of the California, Oregon, Washington, and Nevada departments of transportation and is facilitated with help from the Western Transportation Institute at Montana State University. We are focused on incubator projects which are small scale research projects intended to serve as a "proof of concept" for larger subsequent efforts. Such incubator projects have included:

- Regional Integrated Corridor Management Planning (Operations)
- Survey of Western States Safety Warning Devices (Safety)
- Radar Speed Trailer Deployment Warrants (Safety/Operations)
- Chain-Up Delay Tracking with Bluetooth (Technology)
- Evaluation of the Fredonyer Summit Icy Curve Warning System (ICWS) – Before and After Study of Long-Term Effectiveness (Safety/Operations)



DRISI provides solutions and
knowledge that improves
California's transportation system

- Data Quality for Aggregation and Dissemination of DOT Traveler Information: An Analysis of Existing System Best Practices (Technology)

Successful incubator projects may lead to expanded research initiatives. Several successful, on-going Caltrans research projects have been extended through WSRTC efforts including the One-Stop-Shop for Rural Traveler Information, WeatherShare and the Automated Safety Warning Controller.

In addition, the WSRTC sponsors the Western States Rural Transportation Technology Implementers Forum, which is an annual event where implementers of ITS technologies have the opportunity to share technical information on best practices and field deployment experiences with fellow professionals from across the western United States. It is an engineering practitioner's conference with the goal of providing a forum for high-quality exchange of technical information that can help to support better ITS deployment in rural areas. It is also a forum for dynamic discussion of practical and technical issues associated with rural ITS, to promote transferability of solutions and knowledge across the ITS community. It also involves multiple, highly interactive technical presentations, ranging in length from 1 to 2 hours each, in-depth equipment demonstrations, and numerous opportunities for networking with peers, which are all part of the agenda.

WHAT IS OUR GOAL?

The WSRTC promotes innovative partnerships, technologies and educational opportunities to facilitate and enhance safe, seamless rural travel throughout the western United States. The WSRTC does this by providing a framework to leverage research and promote collaboration in solving rural transportation issues. The goals include:

- To leverage research resources related to rural issues concerning technology, operations and safety.

- Provide technology solutions in the form of technology transfer to rural areas and training on a regular basis.
- Recycle and reuse existing research, applying its results to rural issues.
- Development of a rural western states integrated corridor management system to improve seamless, coordinated and safe transportation to the public.

WHAT IS THE BENEFIT?

The WSRTC is a collaborative mechanism to leverage rural research activities. Its impact on the member agencies and the rural transportation field include the following benefits:

- Technology transfer activities through venues such as the Western States Rural Transportation Technology Implementers Forum
- Leveraging of research resources for technology, operations and safety related to rural transportation
- A framework for promoting collaboration and leveraging resources to solve rural transportation issues
- Recycling and reusing existing research for application to rural challenges among multiple states
- Regular training and transfer of technology solutions to rural areas

WHAT IS THE PROGRESS TO DATE?

- The 2022 Western States Rural Transportation Technology Implementers Forum was held in June 2022 in Yreka, CA. Eight presentations were made to participants from throughout the Western United States.
- The WSRTC is finalizing the results of TPF-5(241) and continuing the work in TPF-5(494).
- Continuation of maintenance on several projects, including the One Stop Shop for Traveler Information, WeatherShare and the Advanced Safety Warning System Controller

IMAGE



Image 1: Logo for the Western States Rural Transportation Consortium



Image 2: Logo for the Western States Forum