Western States Rural Transportation Consortium Meeting

August 28, 2013
Overview/Agenda

• Welcome / Introductions
• Western States Forum Preview
• WSRTC Pooled Fund updates/discussions
• Incubator updates
• General project discussion
• Roundtable of recent/planned ITS activities
• Other discussions (as needed)
Western States Rural Transportation Technology Implementers Forum

Review
Western States Rural Transportation Technology Implementers Forum

June 18-20, 2013
Yreka, California
Holiday Inn Express
Presentations/Demonstrations

Nevada Department of Transportation, Israel Anthony Lopez: Design and Implementation of Video for Rural ITS – Nevada Department of Transportation

Caltrans District 2, Keith Koeppen: CCTV Image Relay
Presentations/Demonstrations

Caltrans, Headquarters Division of Traffic Operations, Martha Styer: Bike Detection in California

Caltrans District 9, Phil Graham: Automated Wind Warning System – Caltrans District 9
Presentations/Demonstrations

Oregon Department of Transportation, Doug Spencer: Procuring the Advanced Transportation Controller (ATC) for the Oregon Dept. of Transportation and the State of the National Standards
Presentations/Demonstrations

Nevada Department of Transportation, Jim Whalen: Design and Implementation of Nevada DOT’s Wireless Point to Point and 3G/4G Rural Networks

Western Transportation Institute, Doug Galarus: Field Element Data Quality Control from the Perspective of Data Redistribution
Yegor Malinovskiy, Yinhai Wang, University of Washington; Ron Vessey, Washington State Department of Transportation: Error Assessment for Emerging Traffic Data Collection Devices

Idaho Transportation Department, Dennis Jensen: Winter Performance Measures – Idaho Transportation Department
8th Annual Western States Forum
45 participants (4 have been to all 8, another 2 have attended 7, 22 first time attendees)
6 states and state DOTs (CA, ID, MT, NV, OR, WA)
California – DRISI, HQ, all Districts but 11 & 12, CHP
FHWA, 3 universities (UC Davis, UW, MSU)
www.westernstatesforum.org
WSRTC Pooled Fund update/discussion
WSRTC Meeting Coordination, Western States Forum Travel Support and Website Maintenance (Task Order 4)

- Start Date: 5/1/2013
- End Date: 10/31/2014
- WSRTC Meeting Facilitation and Attendance:
  - WSRTTIF (and Steering Comm. mtg.): June, 2013
  - NRITS: August, 2013
  - Northwest Transportation Conference 2014
  - NRITS 2014 (if sufficient funds remain)
  - Other meetings via teleconference as needed.
- Western States Forum Support
- Website Content and Maintenance
Rural Traveler Information (One Stop Shop) (Task Order 2)

- Start Date: 10/1/2011
- End Date: 9/30/2014
- A no-cost extension was granted, with the objective of covering the 2013-2014 bad weather season.
WSRTC Pooled Fund

• Other Items for Discussion
Incubator Project Updates
Survey of Safety Warning Devices

• Agency contacts via telephone wrapping up
  – Summer construction season has made contacts more difficult

• Approach has been successful
  – Good leads have been obtained, but generally reaching the end of contacts

• Contacts made with all states of interest
  – CA, OR, WA, NV, AK, ID, AZ, NM, MT, WY, CO, UT
Survey of Safety Warning Devices

- Ice/Weather warning (8)
- Animal warning (8)
- Curve Speed warning (15)
- Traffic/Queue warning (5)
- Variable Speed Limit (3)
- Wind warning (7)
- Runaway Truck Ramp (4)
- Flood warning (3)
- Visibility warning (2)
- Tunnel warning (2)
- Seismic warning (2)
- Other (8) [vehicle overlength detection, travel time, automated deicing]
Survey of Safety Warning Devices

• On-going work
  – Wrap-up of contacts and summary of responses/information as received
  – If anyone has contacts (names/numbers/emails) please pass along

• Summary of work and preliminary findings made earlier this week at NRITS
Regional ICM Planning

• Work to-date
  – Literature review
  – ICM Planning protocols (urban)
  – Emergency Operations Center protocols
  – Develop rural ICM planning process
  – White paper project discussion and update of current status
  – Nomination/selection of demonstration corridors
Regional ICM Planning

• Literature review – primary focus on urban applications
• USDOT ICM approach - not adequately defined
• EOC Plans/Protocols – framework to support decision-making and operations for rural ICM exists
  – Would need to develop coordinated set of protocols and interagency agreements to facilitate multi-state ICM
Regional ICM Planning

• Definition of regional ICM
  – Regional Integrated Corridor Management is defined as the coordination of highway facilities across state and jurisdictional boundaries in a seamless manner to enable an interconnected system for long-distance cross-network travel in response to extended-duration events.
  • Note that true ICM is multimodal, but no alternate modes exist in a fashion across a region that can serve as seamless alternatives
    – Highways are the only viable option
Regional ICM Planning

- Proposed planning approach
  - Demonstration to show application and identify revisions

- Identify and select route(s) of interest
- Identify events, conditions or scenarios that may impact the route(s) selected
- Inventory highway assets and conditions
- Evaluate data to determine availability and suitability of alternative/parallel routes
- Select alternative route(s) for ICM based on suitability
- Develop Interagency agreements
- Develop Concept of Operations document for each impacting event, condition or scenario
- Develop Requirements document for the systems being deployed as part of the rural ICM
- Develop protocols for deployment and common operations during use of ICM
- Identify and convene meeting of stakeholders in a region
- GIS data (Roadway files, traffic, ITS field elements, etc.)
- If suitable alternatives do not exist, consider options other than rural ICM
Demonstration

• Demonstration corridor input provided by group

• Two corridors nominated, consensus was to examine both
  – Route 299/ US 395 (CA and OR) – Arcata through Alturas to US 20 jct (OR)
  – U.S. 395 between Bishop, California and Carson City, Nevada
Rt 299 – US 395
Regional ICM Planning

• Next Steps and Needs

1. Proceed with route inventory for the selected corridor(s) and demonstrate the process at a high level
   • Use of GIS analysis to demonstrate how alternative routes can be identified and determined suitable for use in regional ICM deployments
   • Demonstrated process will not develop Con Ops or Requirements documents, interagency agreements or operations protocols

2. Refinement of the proposed planning process based on findings

3. Final report, review and comment
Technology Incubator

• To be discussed – Bluetooth used for wait time estimation at chain-up area.
General project discussions
Spin-Off Projects – On-Going

• Automated Safety Warning Controller
  – Phase 2 just completed
  – 4/10/2012 - 3/14/2013

• Professional Capacity Building (PCB) for Communication Systems
  – Phase 2 in Progress
  – IP Networking Course scheduled for September 2013

• Western States One Stop Shop for Rural Traveler Information
  – Phase 2 in Progress
  – 10/1/2011 - 9/30/2014
  – Extension granted to cover 2013-2014 bad weather season.
Spin-Off Projects – On-going

• WeatherShare
  – Phase 3 Initiated
  – Extension through 2015 Anticipated

• Integration of Aviation AWOS with RWIS
  – Phase 3 Initiated
  – Extension through 2015 Anticipated
Spin-Off Projects - Upcoming

- WeatherShare Integration with QuickMap
  - Pending
  - 7/1/2013 – 6/30/2018
Expanded coverage of Nevada...
Roundtable of Recent ITS Activities
Upcoming Steering Committee Meetings
Steering Comm. Mtg.

• Interest in meeting at 2014 Northwest Transportation Conference?
  – Corvallis, Oregon – March 11-13, 2014

• Options:
  – In 2012, meeting was held last day, 9 am - noon
  – Other preferences/suggestions?
Other Discussions
Items

• Next meeting
• Action items
• Other
Wrap-up