Western States Rural Transportation Consortium Meeting

February 9, 2012
Overview/Agenda

• Welcome / Introductions / Recent ITS Activities
• Western States Forum discussions
• Incubator Project updates
• One Stop Shop Phase 2
• Other Project updates
• Task Order 1 updates
• Task Order 3 updates
• NRITS 2012 discussion
• Other discussions (as needed)
Western States Rural Transportation Technology Implementers Forum

June 12-14, 2012
Yreka, California
Holiday Inn Express
(Tentative) Presentations/Demonstrations

- **Caltrans District 2; Ian Turnbull, Jeremiah Pearce**: Field Element Network Design for a Rural Transportation Management Center
- **Southwest Research Institute; Lynne Randolph**: Investigation into the Usage of Bluetooth Signals for Roadway Speed Calculations
- **Nevada DOT; Mark Aragon, Jon Dickinson**: Mobile ITS Hotspot Trailers, an Evolving Technology
- **WTI; Doug Galarus, Dan Richter**: Technical Development of the Western States One Stop Shop for Rural Traveler Information
- **Georgia DOT; Steve A. Thomas**: Extending ITS Communication Beyond Fiber
- **Oregon State University; David Kim, J. David Porter, Mario Magaña, Amirali Saeedi, SeJoon Park**: Using Bluetooth-based Data Collection Units as Point Detection Systems
- **California Highway Patrol; George Peck**: Rapid Response Incident Command Vehicles
- **Washington State DOT; Bill Legg**: A Cost/Benefit Tool for Rural ITS Devices – The North/West Passage Program’s Experiences
Discussion

• 7th Annual Western States Forum
• Registration will open in early March.
• Travel assistance
• Possible WSRTC meeting
• www.westernstatesforum.org
Incubator Project Updates
Survey of Safety Warning Devices

- Synthesis of existing safety warning devices in the western U.S.
- Telephone contacts to obtain specific information of interest
  - Identify location of existing deployments, their function/purpose, and other info
Survey of Safety Warning Devices

• Work to date
  – Preliminary contact list developed
    • Continually expanding through ongoing work
  – Draft survey compiled for steering committee review and feedback
Survey of Safety Warning Devices

• Survey questions
  1.) Does your agency have any safety warning systems/devices deployed as described, specifically in a rural environment?
  2.) What systems, specifically are deployed by your agency in rural areas?
  3.) How long has each system been deployed (approximate year of first deployment/use)?
  4.) What is the intended purpose of each system (i.e. what problem is it targeting)?
  5.) Where are these systems located (both general setting and more specific location)?
Survey of Safety Warning Devices

• Questions cont’d

6.) What are the components that make up the system (ex. hardware, controls, etc.)? (Please discuss each system individually.)

7.) How effective has each system been? (Please discuss each system individually.) This can include any general observations as well as specific, data-driven evaluations. Have any formal evaluations of any system been completed? Are the results available in a report or other documentation?

8.) Do you know of anyone else in your state at any level – state, county or city – that employs similar systems to those we have discussed? If so, would you be able to provide their name and agency (as well as further information such as telephone number, if available)?
Survey of Safety Warning Devices

• Discussion points/clarification
  – Are we more concerned with rural devices or all settings?
  – What are we interested in for “location”?  
    • General setting? Coordinates? Other?
  – How detailed of information is desired for system components (general versus manufacturer)?
Survey of Safety Warning Devices

• Up-coming work
  – Begin telephone contacts
  – Summarize survey responses/information as it is received
Regional ICM Planning

• Establish guidance and criteria to initiate, plan and develop rural ICM plans
  – Define what rural ICM is and establish factors to consider

• Apply results of USDOT Integrated Corridor Management initiative to the rural environment
Regional ICM Planning

• Work to-date
  – Literature review update
    • Several new documents available since previous review
    • Still focused on urban applications, primarily U.S. DOT demonstration sites
    • Concept of Operations documents developed
    • Selected sites chosen to focus on analysis, modeling and simulation activities, ongoing
Regional ICM Planning

• Work to-date
  – Literature review update cont’d
    • No rural efforts pursued/discussed since initial COATS work
    • Focus has been on ICM pioneer site work
    • Provides a good baseline of information to consult when developing rural planning approach
      – Adaptations made to meet rural conditions/needs
Regional ICM Planning

• Work to-date
  – Planning protocols
    • Documents identified, review and summary in progress
    • Adaptations are expected again to meet rural needs
Regional ICM Planning

• Upcoming work
  – Document Emergency Operations Center protocols
    • Respective contacts the group may have to obtain information are needed
  – Develop rural ICM planning process
One Stop Shop Phase 2
One Stop Shop: http://oss.weathershare.org/
Other Info:
2 - Pine Grove N/B - Shasta Lake City
Updated: 10:58 AM MST - Wed, Jan 18 2012

I-5 CLOSED AT FAUNDALE DUE TO ACCIDENT

Fawndale
10:59 AM MST - Wed, Jan 18 2012

FAUNDALE PRESET 3

Vollmers
10:31 AM MST - Wed, Jan 18 2012

VOLLMERS PRESET 1

24 Western Transportation Institute
OSS Usage

Visitors Overview

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Total Visits: 1,742

1,098 people visited this site

- 1,755 Visits
- 1,098 Unique Visitors
- 0 Pageviews
- 0.00 Pages/Visit
- 00:03:47 Avg. Time on Site
- 0.00% Bounce Rate
- 57.61% New Visits

57.55% New Visitor
42.45% Returning Visitor
Prior and On-Going Investment in OSS

Past Projects

Western States OSS Prototype via Clarus FHWA 2010-2011

ICM Caltrans 2006-2009

OSS Phase 1 Caltrans 2008-2010

WeatherShare Phase 1 Caltrans 2003-2005

WeatherShare Phase 2 Caltrans 2006-2009

COATS IV Deployment Assistance Caltrans 2009-2010

AWOS/RWIS Phase 1 Caltrans 2008-2010

WeatherShare Phase 3 Caltrans 2012-2014

AWOS/RWIS Phase 2 Caltrans 2012-2014

OSS Phase 2 Caltrans via WSRTC 2011-2013

OSS Phase 3 Caltrans via WSRTC TBD

Other? TBD

Future Projects

Ice= Covers California

Blue= Covers WSRTC Region

Other? TBD

Western Transportation Institute
Other Ongoing/Upcoming Projects
Automated Safety Warning Controller (Phase 2 in Progress)
Professional Capacity Building (PCB) for Communication Systems

(Phase 2 in Progress)

(Phase 3 coming soon …)
Integration of Aviation AWOS with RWIS

Map and About

Wind Speed/Direction Aloft (15000 ft MSL) - 1:00 PM Mon Feb 6 PST

Surface Layers: AWOS/ASOS (METAR), Pilot Reports (PIREPS), Terminal Aerodrome Forecasts (TAF), Radar: NWS CONUS Merged Reflectivity Composite, Satellite, Wind Aloft, Temperature Aloft

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(Phase 2 coming soon …)
Redding Responder (Phase 3 Coming Soon)

Redding Responder Incident Organizer

Summary | Mapping | Photos | Weather | Sketches | Messaging

- **Responder Summary:**
  - **Organization:** Caltrans
  - **District:** 2
  - **Observer:** Responder
  - **Date:** 2/28/2004
  - **Time:** 08:35 AM

- **Description:**
  Rockslide 1.5 miles west of Pulga. Includes more than 200 yards of material including some weighing over 200 tons.

- **Facility:** Lane blocked
- **Incident Type:** Rockslide/ Mudslide

- **Location:**
  - Update using entered Lat/Lon
  - Latitude: 39.77821
  - Longitude: -121.45579

- **Road / Address:** SR-70, Oroville, CA 95965
- **Mile Marker / Landmark:** BUT 70 39.52

- **County:** Butte
- **State:** California

Maps and Location Data Set to Current Location

Pen Color: Red

Red text on the image:
- Lane open
- Lane closed
- 200 tons
- Road closed
- Paved road damage

Western Transportation Institute
Task Order 1 Update

Travel Support and Website Maintenance
Task Order 3 Discussion
NRITS 2012 Discussion
NRITS 2012

• September 16-19, 2012, Biloxi, Mississippi
• Initial attendance plans?
• Do we want to do a WSRTC meeting?
• Informal get-together/discussion by attendees?
Roundtable of Recent ITS Activities
Other Discussion
Items

• Upcoming meetings
• Action items
Wrap-up