The Western States Rural Transportation Consortium– A Partnership to Advance Rural ITS

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Overview

- Origins and history of WSRTC
- What the WSRTC is and what it does
- Challenges it addresses
- Benefits it provides
- Incubator and spinoff projects
- Technology Transfer

Origins

- 1991- California Department of Transportation (Caltrans) inquired into rural concerns dealing with advanced transportation technologies
- 1995 - Initiated a Program for Advancing Rural Transportation Technologies (PARTT), a rural ITS scoping study
  - Reviewed advanced transportation technologies, identified key issues concerning them, and developed conceptual ideas for future activities
  - Geographic area in Northern California designated a study area to refine the need and application of ITS in a rural environment
  - Caltrans and the Oregon Department of Transportation (ODOT) expanded the Northern California study area into Southern Oregon to maximize resources, foster cooperation, and investigate feasibility of ITS in a bi-state study area

Origins

- COATS (1998-2000) - Identified several regional needs that ITS could address
- COATS Showcase (2001 – 2006) - Focused on demonstration and evaluation activities
- COATS Phase 3 (2005 – 2009) – Promote technology transfer and coordination
- COATS Phase 4 (2008 – 2011) – Continue technology transfer, initiate incubator project concept
  - Investigate expansion of COATS to include additional states

WSRTC History

- June 2009 - Informal discussions occur regarding Consortium establishment/expansion of the COATS project/region
- August 2009 - Formal discussions between COATS members of expansion/consortium development result in agreement to pursue development of WSRTC
- August 2009 – October 2009 - Development of Consortium charter and mission/vision/goals documents undertaken
- November 2009 - Formal discussion between potential consortium members regarding charter and mission/vision/goals documents, intended roles and responsibilities, etc. occurs. All parties agree to move forward in formalizing Consortium
- February 2010 - Follow-up discussions on Consortium documents occur; Year 1 incubator projects are discussed,
- April, 2010 - Scopes of Work completed for incubator projects

WSRTC – What it is and does

- Facilitates and enhances safe, seamless travel throughout the western United States
- Promotes innovative partnerships, technologies and educational opportunities to meet these objectives
- Provides collaborative mechanism to leverage research activities in a coordinated manner to respond to rural transportation issues
- Focuses on technology transfer/education and incubator projects centered on the pillars of **technology, operations and safety**

Challenges Addressed

- Tighter agency and research budgets reducing opportunities to conduct technology, safety and operational research aimed at rural transportation
- Projects must be justified, often requiring an initial proof-of-concept
- Research involving multiple agencies likely to be of interest and transferable to others
  - Mechanism to promote results and share developed products does not exist
- Need existed for agencies to partner and leverage research funding, share technical findings and products, and promote educational opportunities
- The WSRTC addresses these challenges through collaboration

Mission and Vision

- Mission: The WSRTC shall provide a collaborative mechanism to leverage research activities in a coordinated manner to respond to rural transportation issues among western states related to Technology, Operations and Safety.
- Vision: The WSRTC shall promote innovative partnerships, technologies and educational opportunities to facilitate and enhance safe, seamless rural travel throughout the western United States.

Goals and Benefits

- Provide a framework to leverage research and promote collaboration in solving rural transportation issues.
- 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.
- Continued fostering of tech transfer activities through venues such as the Western States Forum

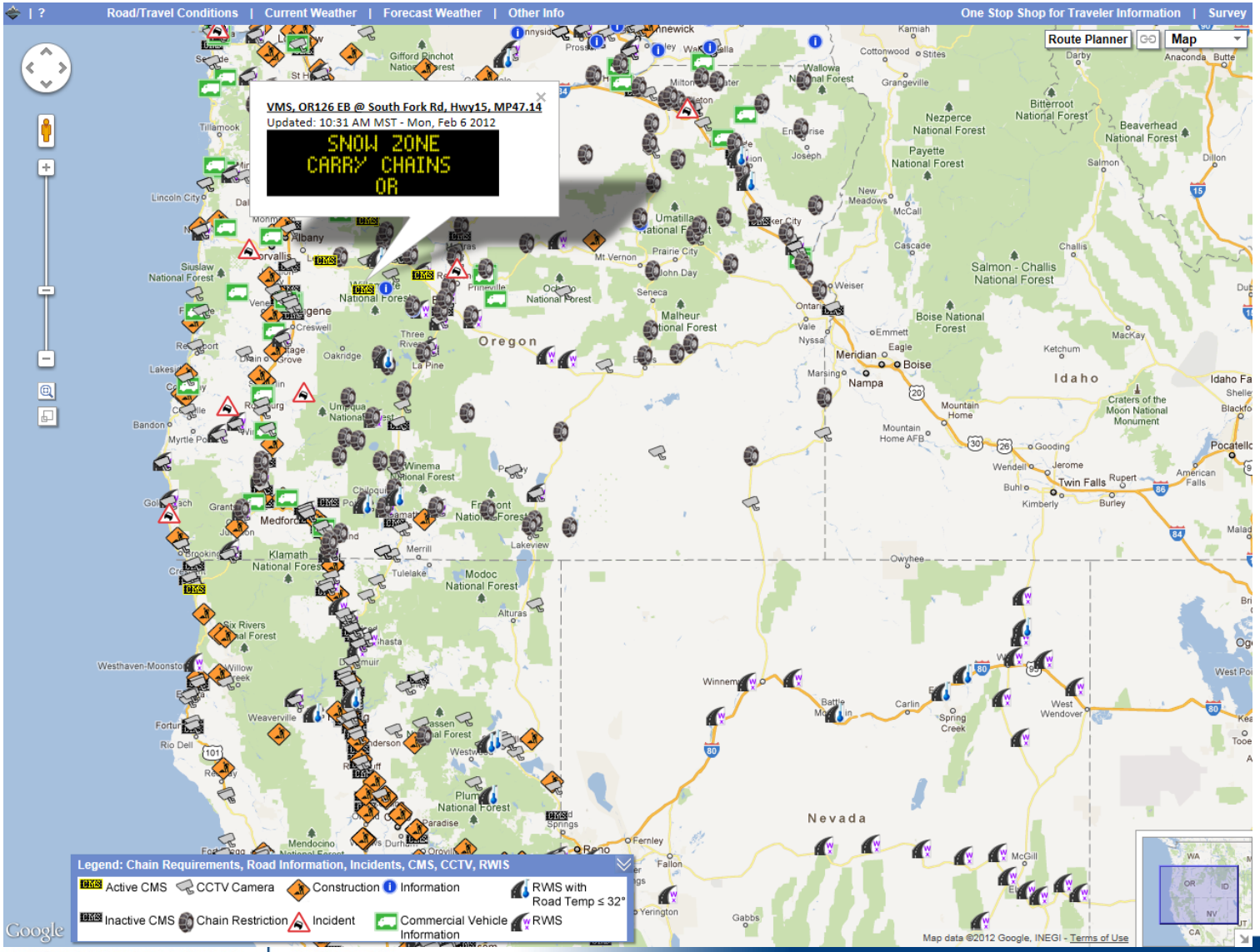
WSRTC Incubator Projects

- Radar Speed Signs deployment guidance
- Evaluation of the Fredonyer Pass icy curve warning system
- Analysis and recommendations for optimization and deployment of web-based projects
- Survey of western states safety warning devices (ongoing)
- Regional Integrated Corridor Management planning (ongoing)
- Bluetooth and other passive ID technologies for weather-related rural travel times (upcoming)

Spinoff Projects

- One Stop Shop for rural traveler information
- WeatherShare
- Integration of aviation AWOS with RWIS
- Automated Safety Warning Controller
- Redding Responder
- Professional Capacity Building (PCB) for Communication Systems

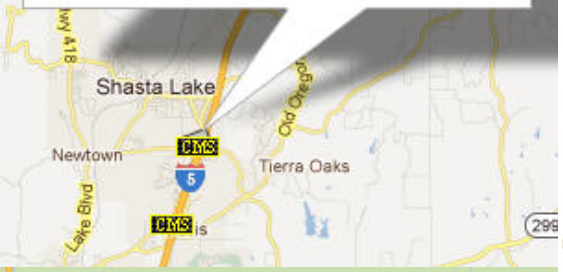
One Stop Shop: http://oss.weathershare.org/



2 - Pine Grove N/B - Shasta Lake City

Updated: 10:58 AM MST - Wed, Jan 18 2012

I-5 CLOSED
AT FAWNDALE
DUE TO ACCIDENT



7:45AM
: 37-56 REDUCING SPD DUE TO RDWY CONDITIONS
7:42AM : 1039 CODE 20
7:41AM : ADV
RESPONDING UNIT JNO ANTLERS THE RDWY IS REALLY SLICK
7:40AM : 1039 CORNING TA

7:40AM : 1039 SHASCOM REF FRWY CLOSURE
7:32AM : 1039 SHAS CDF
7:31AM : STATES
SHE IS INJURED
7:30AM : 1039 37-S1 // ERNT
7:30AM : 1039 CT

7:30AM : NUMEROUS VEH INVOLVED // 90-C116 GOT HIT FROM THE BACK
7:30AM : 1039 SHASCOM

7:29AM : A TOUR BUS CLIPPED THE BACK OF A BIG RIG CAUSING IT TO TC INTO OTHERS
7:29AM : 3-4
BIG RIGS INVOLVED
7:29AM : RP ADVS HE WAS CHANGING UP & WAS HIS BIG RIG TANKER WAS HIT

7:29AM : BIG RIG , MAIL TRK , A BUS & OTHER TRKS INVD
7:28AM : APPROX 4 VEHS INVD
Responding
Officer Status:
7:37AM : CHP Unit Enroute
7:47AM : CHP Unit On Scene

7:50AM : CHP Unit On Scene
7:51AM : CHP Unit On Scene
8:01AM : CHP Unit On
Scene
8:50AM : CHP Unit On Scene
9:12AM : CHP Unit On Scene

9:45AM : CHP Unit On Scene

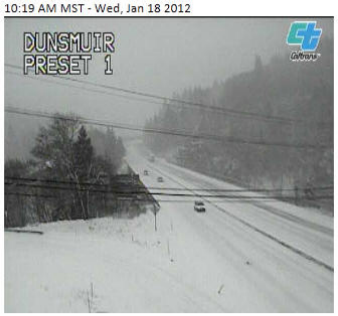
Vollmers
10:31 AM MST - Wed, Jan 18 2012

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

Hilt Sandhouse
10:33 AM MST - Wed, Jan 18 2012

Siskiyou I-5 NB at Exit 1

Central Dunsmuir
10:19 AM MST - Wed, Jan 18 2012



Weed Airport
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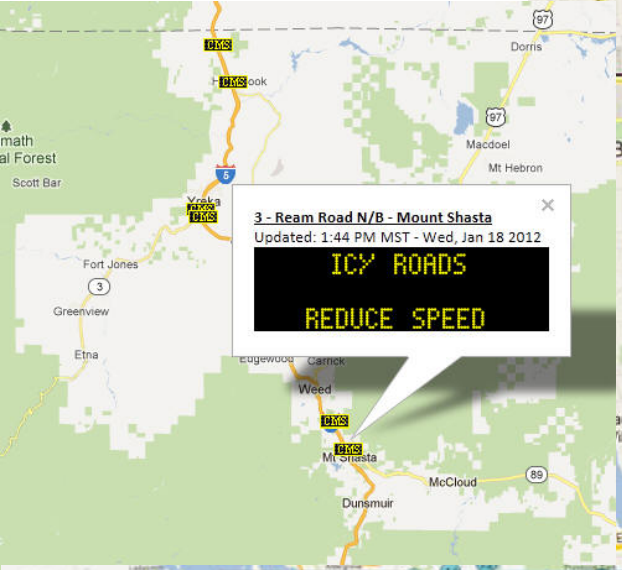
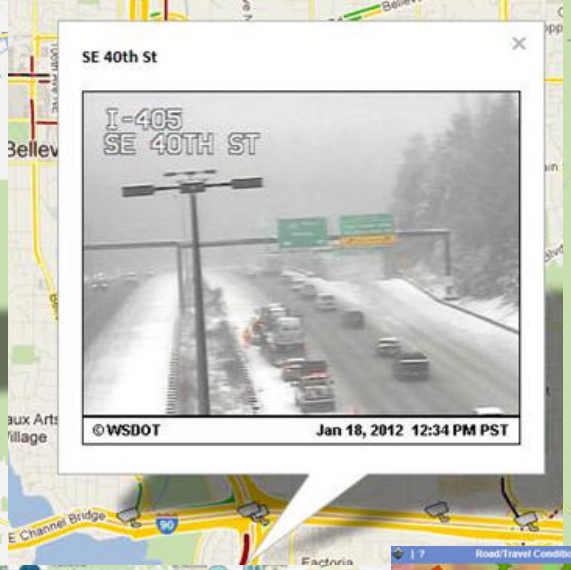
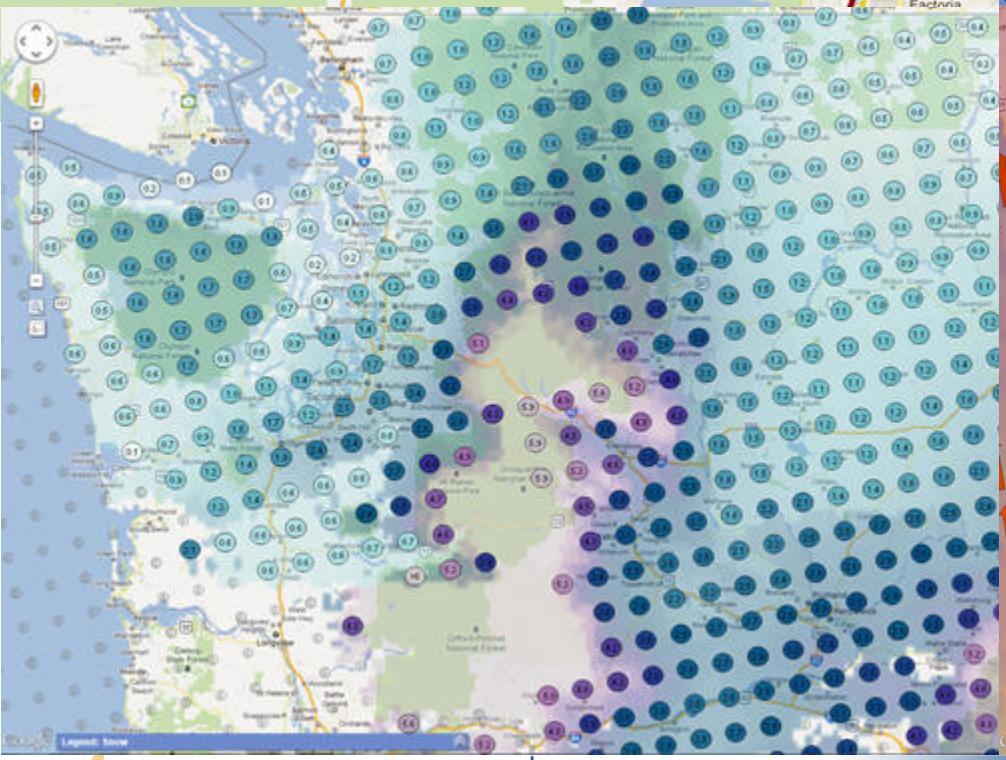
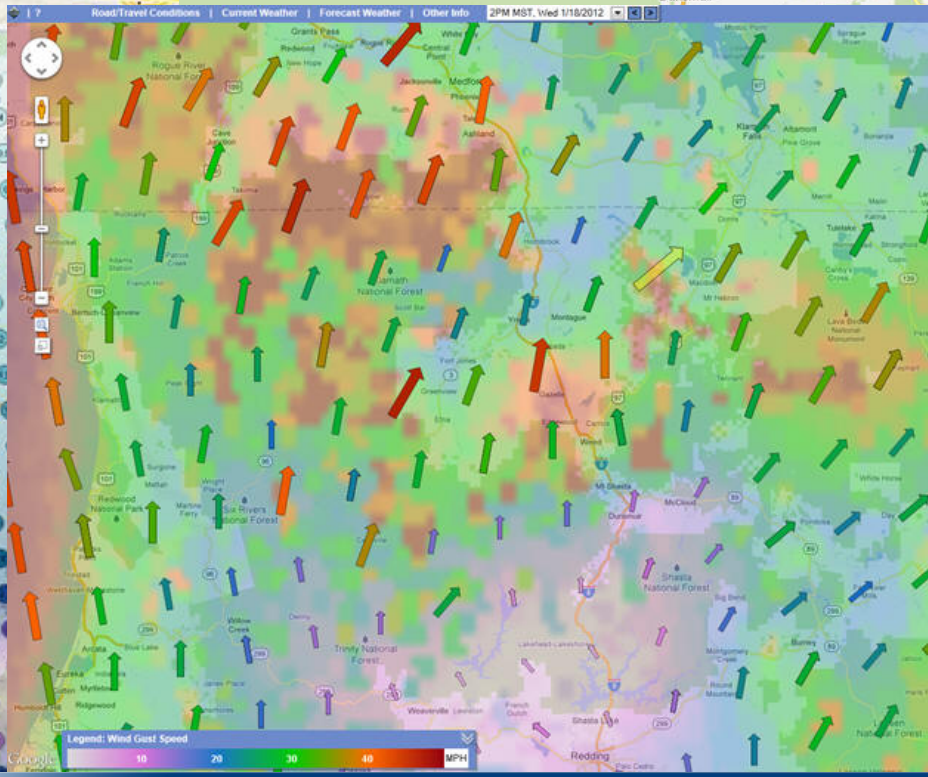

3 - Ream Road N/B - Mount Shasta
Updated: 1:44 PM MST - Wed, Jan 18 2012
ICY ROADS
REDUCE SPEED
Dorris
Macdoel
Mt Hebron
Scott Bar
Fort Jones
Greenview
Etna
Edgewood
Carrick
Weed
Mt Shasta
McCloud
Dunsmuir

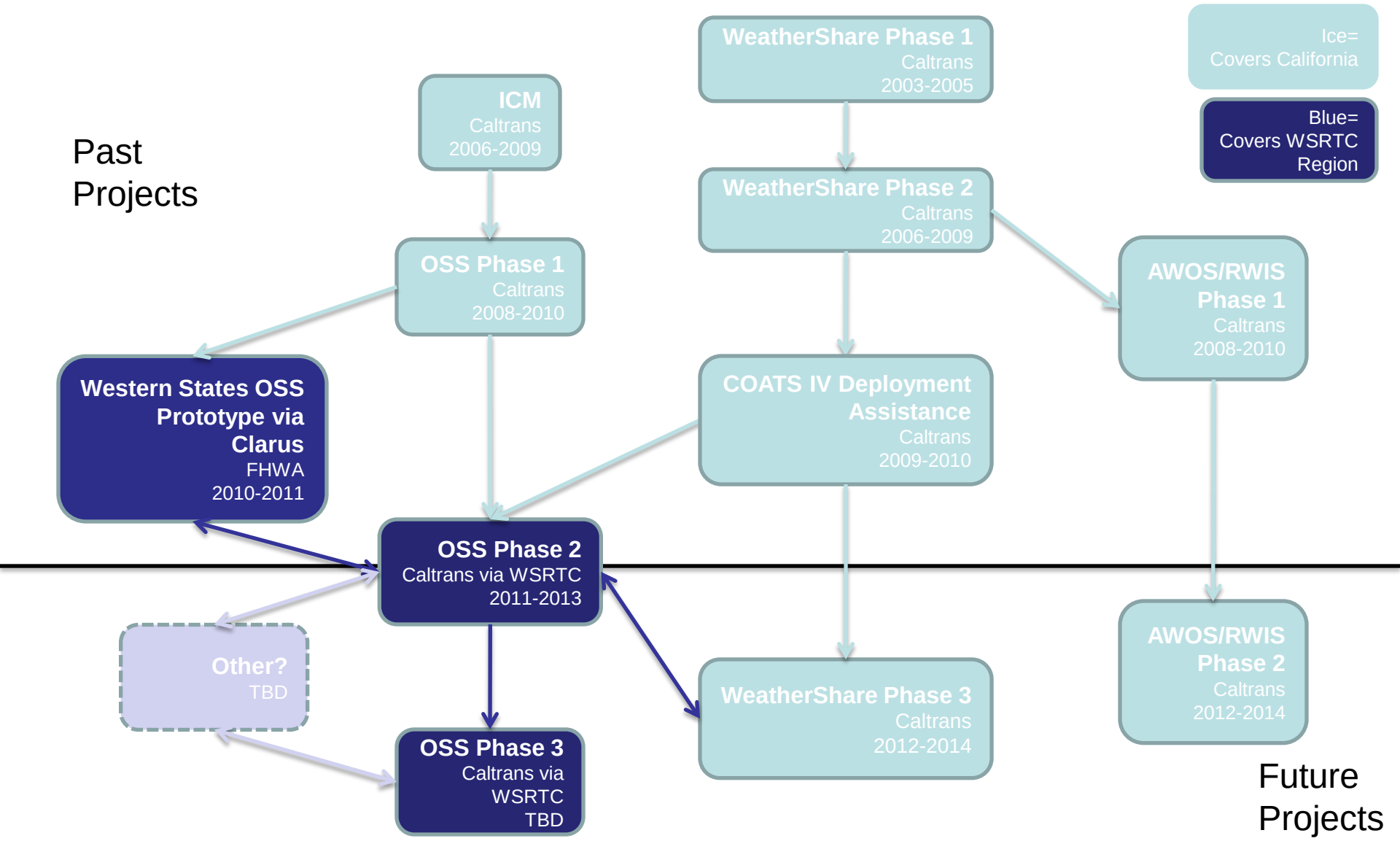

SE 40th St
I-405
SE 40TH ST
©WSDOT
Jan 18, 2012 12:34 PM PST


21 - Abrams Lake - N/B Wind Warning
Updated: 1:44 PM MST - Wed, Jan 18 2012
WIND ADVISORY
WEED TO YREKA
Copper
Dorris
Macdoel
Klamath National Forest
Scott Bar
Fort Jones
Greenview
Etna
Edgewood
Carrick
Weed
Mt Shasta
McCloud
Dunsmuir

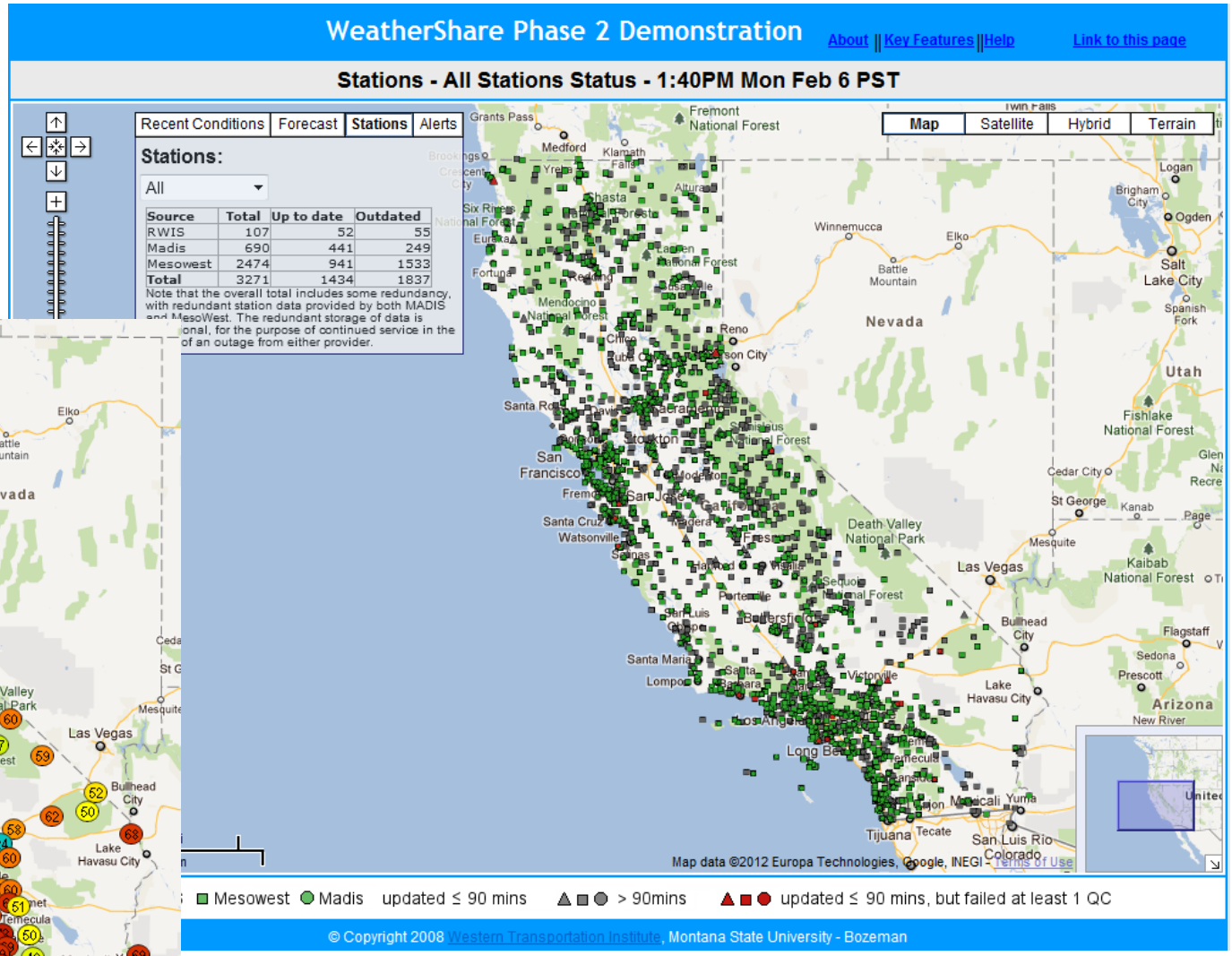



Road/Travel Conditions
Current Weather
Forecast Weather
Other Info
2PM MST, Wed 1/18/2012
Legend: Wind Gust Speed
10
20
30
40
MPH

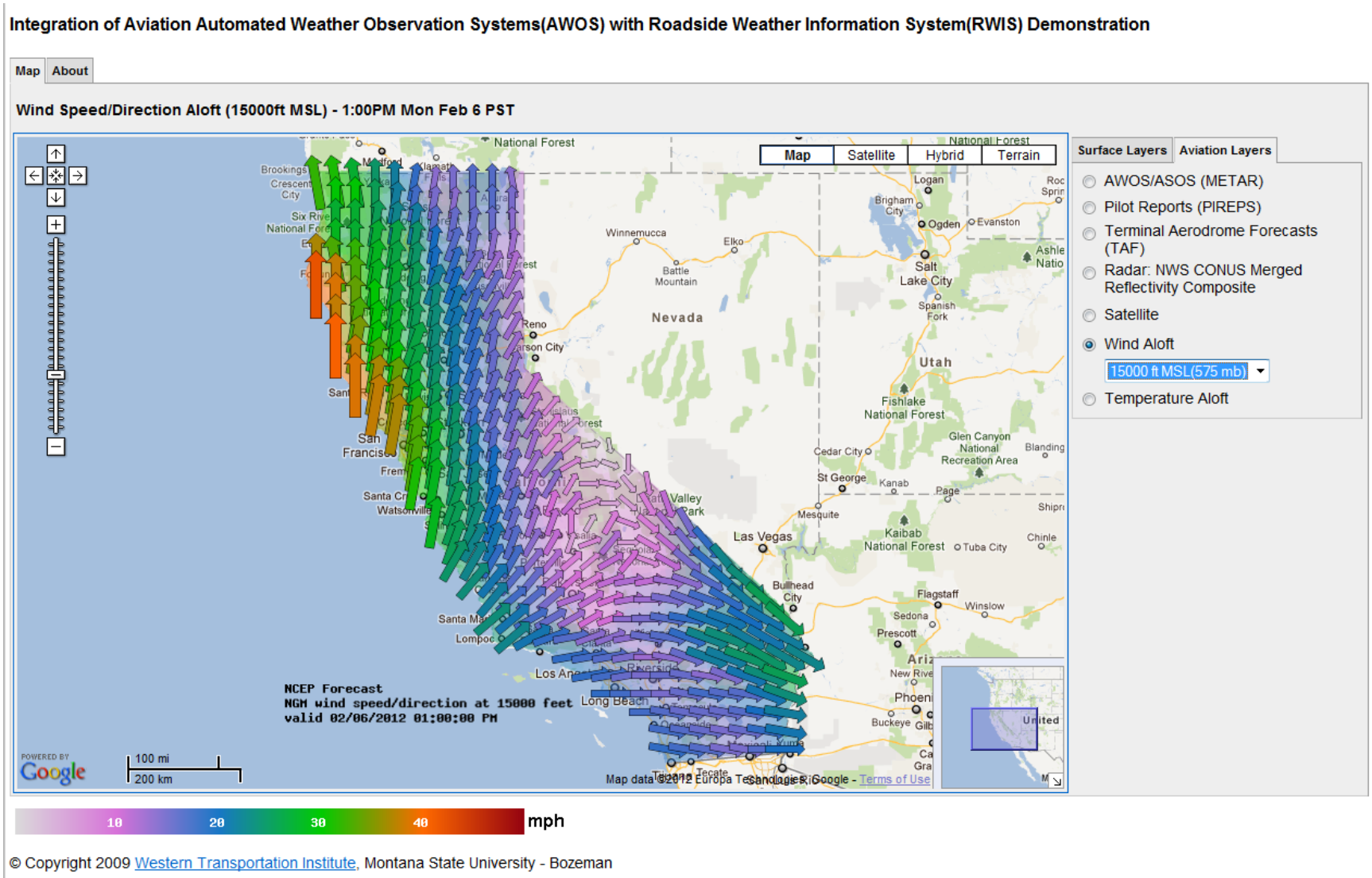
Prior and On-Going Investment in OSS



WeatherShare: http://www.weathershare.org/

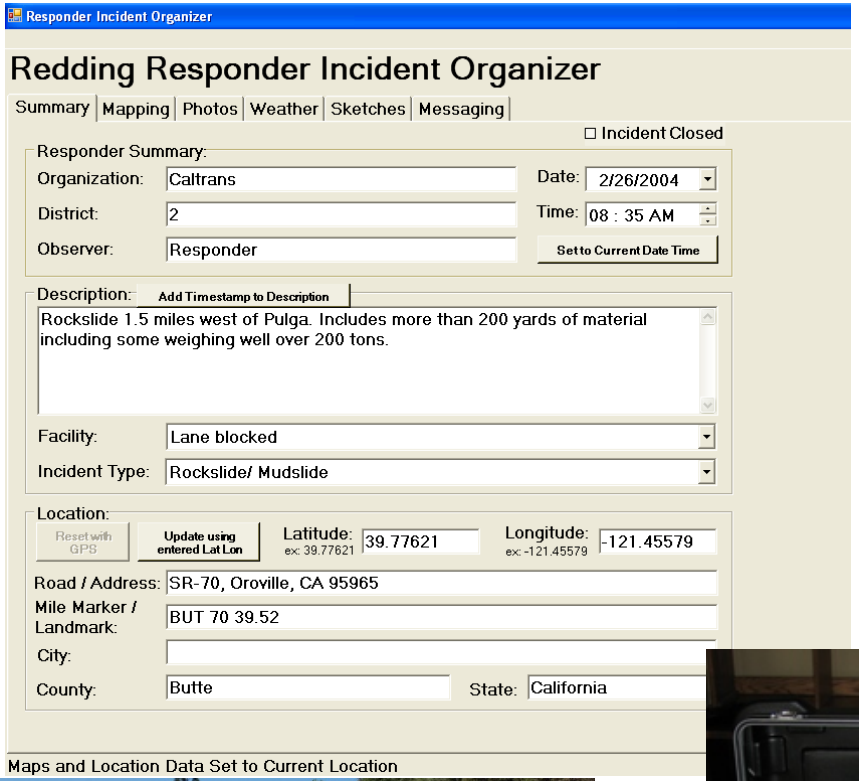


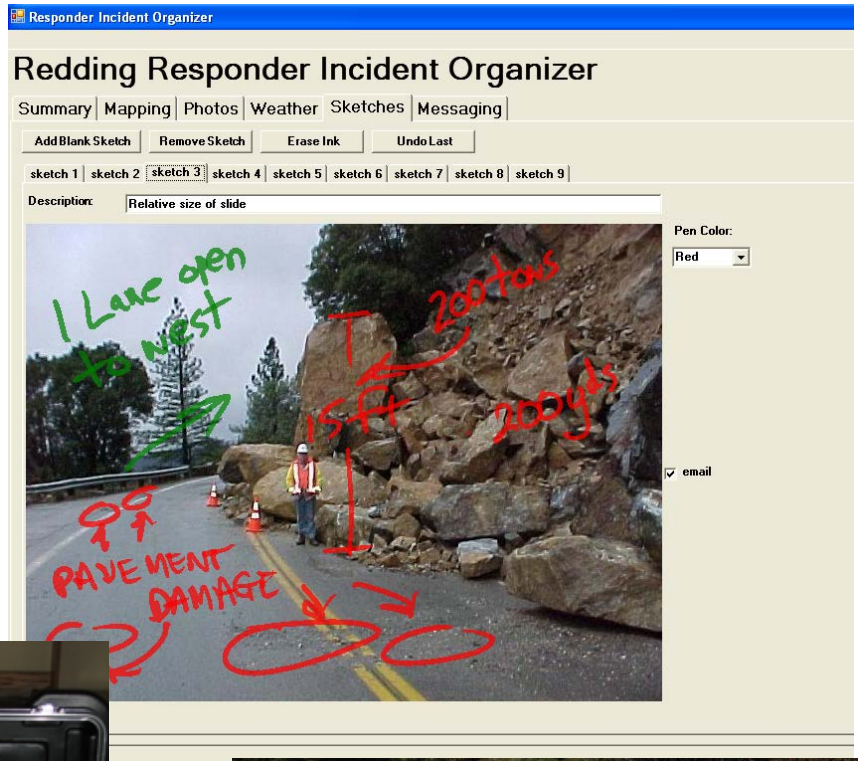
Integration of Aviation AWOS with RWIS



Automated Safety Warning Controller

Redding Responder





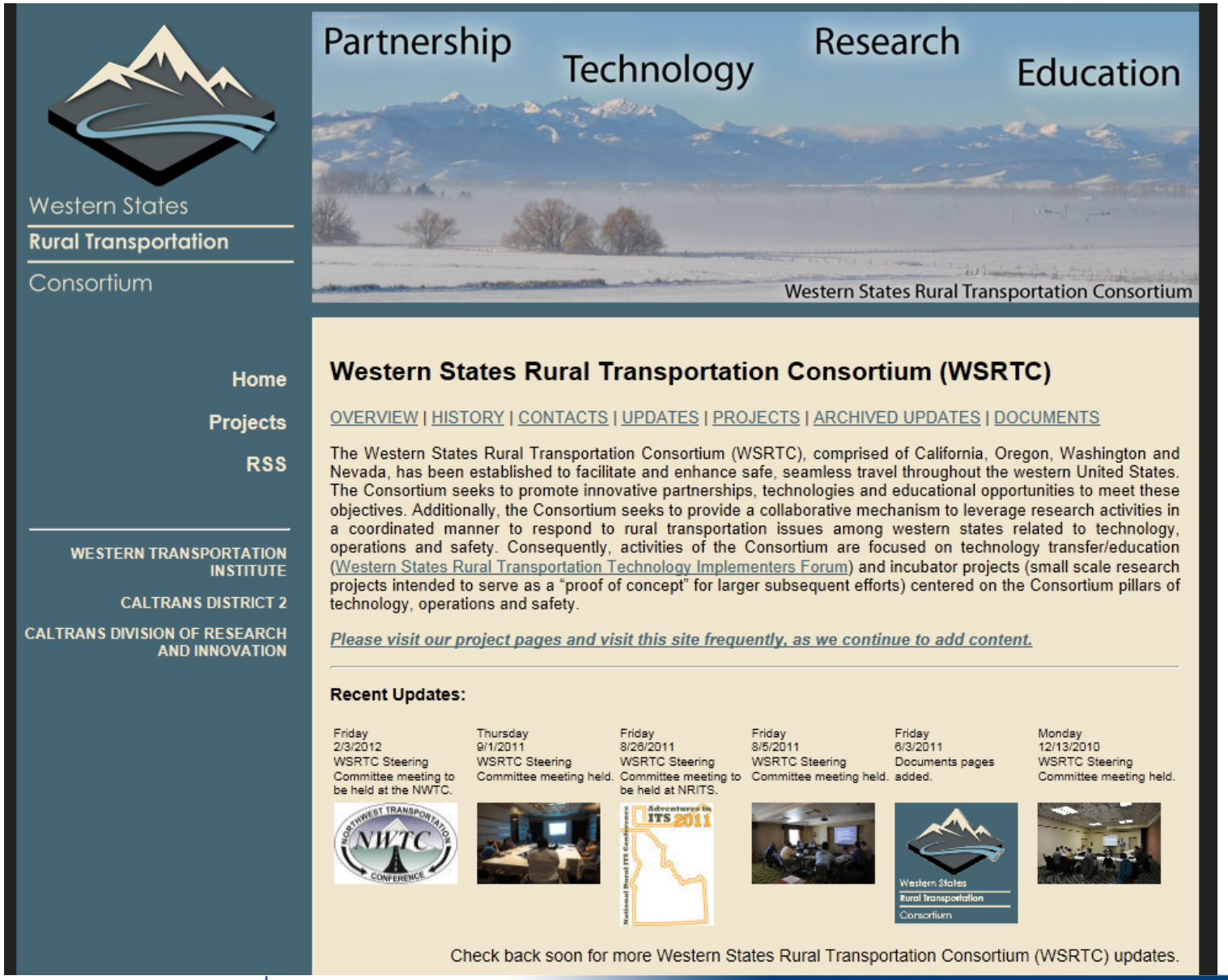
Professional Capacity Building (PCB) for Communication Systems

Technology Transfer

- Western States Rural Transportation Technology Implementers Forum (WSRTTIF)
- Consortium Website

Western States Rural Transportation Technology Implementers Forum (WSRTTIF)

For further information … please visit http://www.westernstates.org/



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Acknowledgements

- California Department of Transportation
- Nevada Department of Transportation
- Oregon Department of Transportation
- Washington Department of Transportation

Questions