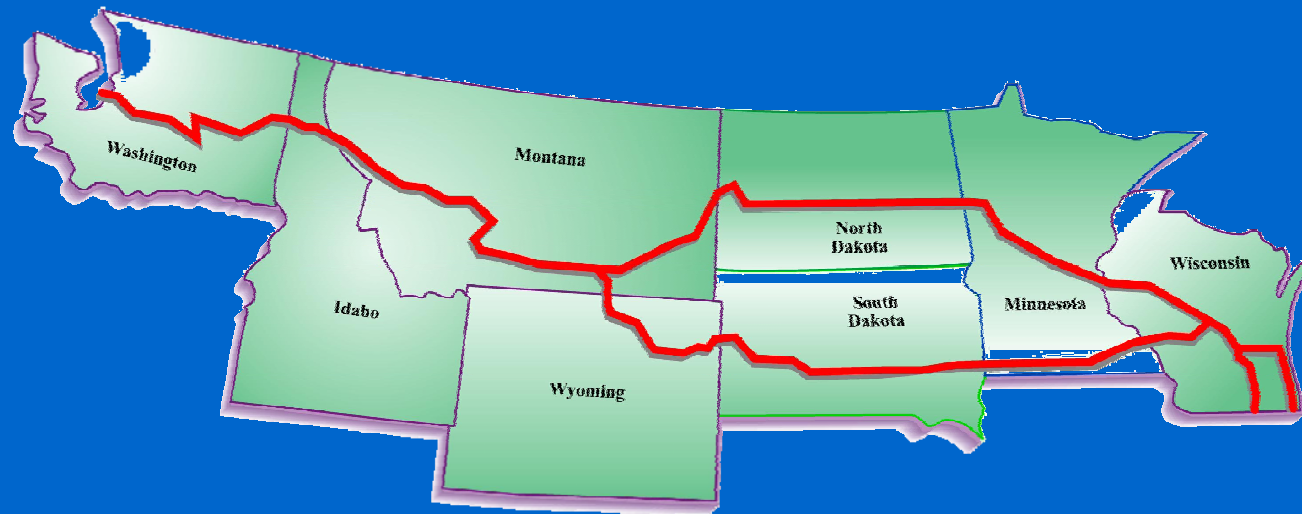


North/West Passage 511 Interoperability



2006 ITS America Annual Meeting

Philadelphia, PA

May 8, 2006

Ginny Crowson, SEH

- Background
- MN-ND-SD 511 Experience
- Future 511
- More Information

- Encompasses eight states along I-90/I-94 between Washington and Wisconsin
- Transportation Pooled Fund (TPF) study formally established in 2003
 - Minnesota is the administrative state



- Goals
 - Implement and evaluate integrated traveler information systems and coordinate maintenance operations across state borders
- Objectives
 - Influence ongoing standards development
 - Utilize effective methods for sharing, coordinating, and integrating traveler information across state borders

- Phase 1
 - ND, MN and WI
 - \$100,000 committed
 - Projects focused on
 - Move forward with projects that have tangible and immediate benefits to demonstrate the value of the corridor approach
 - Focus on projects within participating states while keeping all states involved
 - March 2004 to March 2006

- Phase II
 - WA, ID, WY, SD, ND, MN and WI
 - \$400,000 committed
 - Initial project to develop a corridor ITS strategic plan
 - Inventory infrastructure and issues for I-90/I-94
 - Develop a high-level architecture, focusing on cross-border center-to-center communications
 - Plan for coordinated traveler information systems at borders
 - Produce a corridor-wide strategy for planning, programming and development of future integrated corridor projects

MN-ND-SD 511 Experience

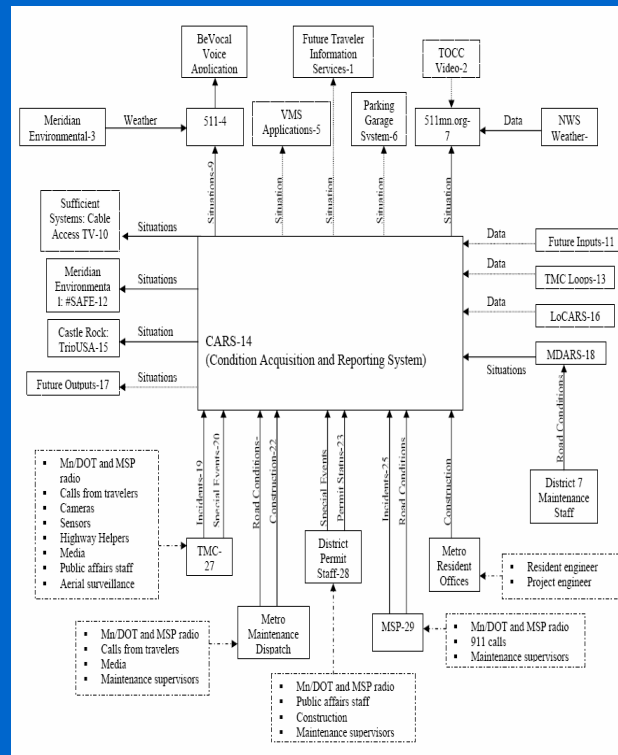
- 2000 CARS information being taken from TripUSA.com for Meridian #SAFE
 - Provided MN travel information on ND-SD road condition phone numbers
- 2002 TripUSA.com discontinued and CARS data posting changed
 - MN launched 511
 - Meridian #SAFE needed to be modified
 - MN travel information lost on ND-SD road condition phone numbers

MN-ND-SD 511 Experience

- 2003 modified CARS XML to adapt to TMDD standards change for phrases
 - ND and SD launched 511
 - Meridian #SAFE needed to be modified again
 - MN travel information on ND-SD 511 lost
- 2005 Interface Control Document (ICD) developed through Phase I
 - MN not receiving ND-SD because there's no data output for a non-#SAFE state to use
 - ICD establishes a framework for CARS (MN) to exchange data with IRIS (ND)

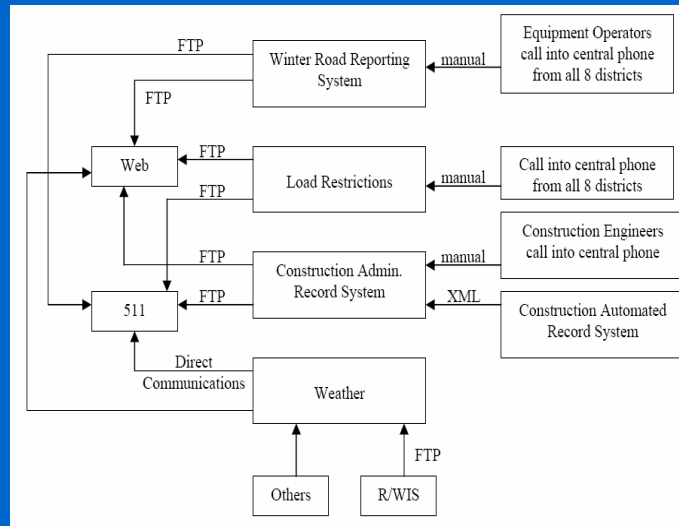
MN-ND-SD 511 Experience

- Minnesota



MN-ND-SD 511 Experience

- North Dakota



MN-ND-SD 511 Experience

- Lessons learned
 - Exchanged data is not easy – even with standards
 - Changes in one system impact others
 - Down time on one system impacts traveler information services
 - Like adding chocolate to a health drink
 - Seems like it would make traveler information better, but can it diminish the benefit?

Tim, Zack and Eric are cousins who share a common love for snowboarding. Every year the three of them meet up with each other for a week of snowboarding in the mountains. Tim lives in Bellevue, Washington, Zack in Sioux Falls, South Dakota, and Eric in Madison, Wisconsin. This year, the three of them will meet at Big Mountain Ski Resort in Whitefish, Montana. All three have decided to drive, and plan to meet at the resort sometime during the day on Sunday, December 12th.

- Tim, Zack and Eric benefit from ITS
 - Web sites
 - 511
 - DMS
 - CCTV images
 - Rest area kiosks
 - Commercial radio
 - HAR

- Phase II – Work Completed
 - Technology inventory
 - Goals and objectives established
 - Potential solutions and desired functions identified
 - Data capabilities
 - Information priorities
 - 511 menu structures
 - Corridor wide vs. neighboring states
 - Operational uses

- Phase II – Upcoming Work
 - Technology assessment
 - Corridor architecture
 - Traveler information system integration
 - Identify communication alternatives
 - Develop concept of operations and deployment strategy
 - Prepare strategic plan

More Information

- “Backdoor” 511 numbers
 - Minnesota: 800-542-0220
 - North Dakota: 866-696-3511
 - South Dakota: 866-697-3511

More Information

Mark Nelson
Minnesota DOT
Phone: 651-634-5293
mark.nelson@dot.state.mn.us

www.nwpassage.info

