

North/West Passage ITS Corridor Coalition and Regional Real-Time Data Sharing



ITS America 2006 Annual Meeting

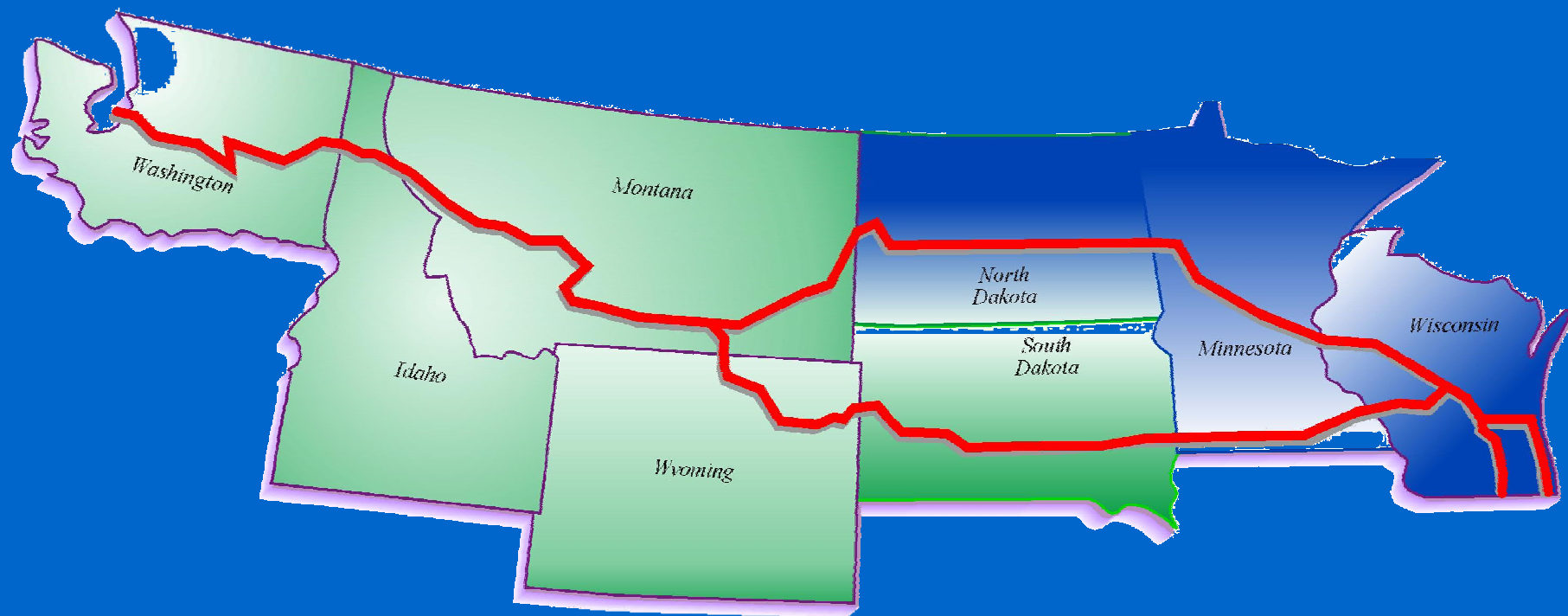
Philadelphia, PA

May 8, 2006

Mark Nelson, Minnesota DOT

- A Brief History of North/West Passage Corridor Coalition
- Plans for Regional Real-time Information System Management
- Next Steps

The Corridor





Goal and Vision of TPF Study

Goal of North/West Passage TPF Study

Implement and evaluate integrated traveler information systems and coordinate operations across state borders.

Objectives

To influence ongoing traffic operations and traveler information system development among member states.

To utilize effective methods for sharing, coordinating, and integrating traveler information across state borders.

Background

- December 7, 2001 – Minnesota Guidestar approved the development of a multi-state project to coordinate ITS deployments along I-90 and I-94
- February 25, 2002 – Representatives from Washington, Idaho, Montana, North Dakota, South Dakota, Wyoming, Minnesota, and Wisconsin held a workshop to discuss the development of a coalition along I-90 and I-94
- January 2003-North Dakota, Minnesota, and Wisconsin secured approval and funding to initiate the development of a North/West Passage Transportation Pooled Fund (TPF) study

Phase I Summary



PHASE I:

- Move forward with projects that have tangible and immediate benefits to demonstrate the value of the corridor approach.
- Focus on projects within the three participating states while keeping all states involved.

Phase I Accomplishments

- Developed a communications plan and assisted with preliminary system design for a shared bridge deck anti-icing system to be installed on I-94/Red River bridge between Minnesota and North Dakota.
- Developing concept of operations for DMS information sharing at Minnesota-North Dakota Border.



Phase II



- Washington - Committed
- Idaho - Committed
- Wyoming - Committed
- Montana - Very Likely

- North Dakota - Committed
- South Dakota - Committed
- Minnesota - Committed
- Wisconsin – Committed

Phase II – North/West Passage ITS Integrated Corridor Strategic Plan

- Plan for a coordinated traveler information system
- Develop a high-level architecture, focusing on cross-border center-to-center communications
- Inventory communication infrastructure and issues for I-90 and I-94
- Produce a corridor-wide strategy for planning, programming and development of future integrated corridor projects

What exactly do we mean by
coordinated traveler information?

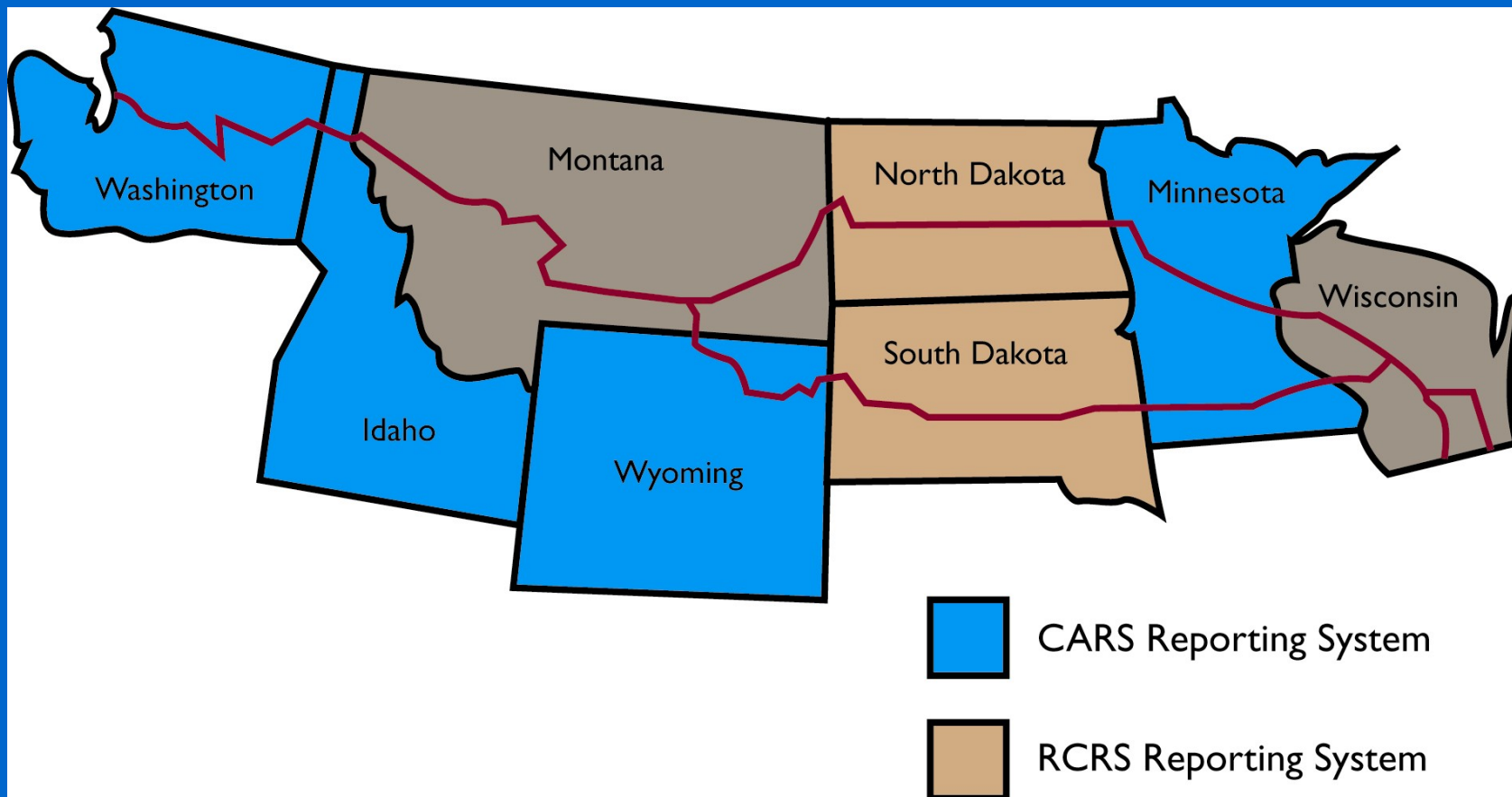
Our Operational Concept:

*The States will share information on
events of regional significance for both
traveler information and traffic
operations.*

511-Telephone Based

- Each state's 511 system will report incidents of regional significance.
- At a minimum states with shared borders should allow for call transfer to neighboring state's system

Coordinated Traveler Information



Web Based Traveler Information

An Internet based system that will collect and distribute information on events of regional significance.

- Target distribution to long distance travelers
 - Rest areas and ports of entry
 - Major destinations within the corridor
- Integral piece of center-to-center communications for coordinated traffic operations and road maintenance.

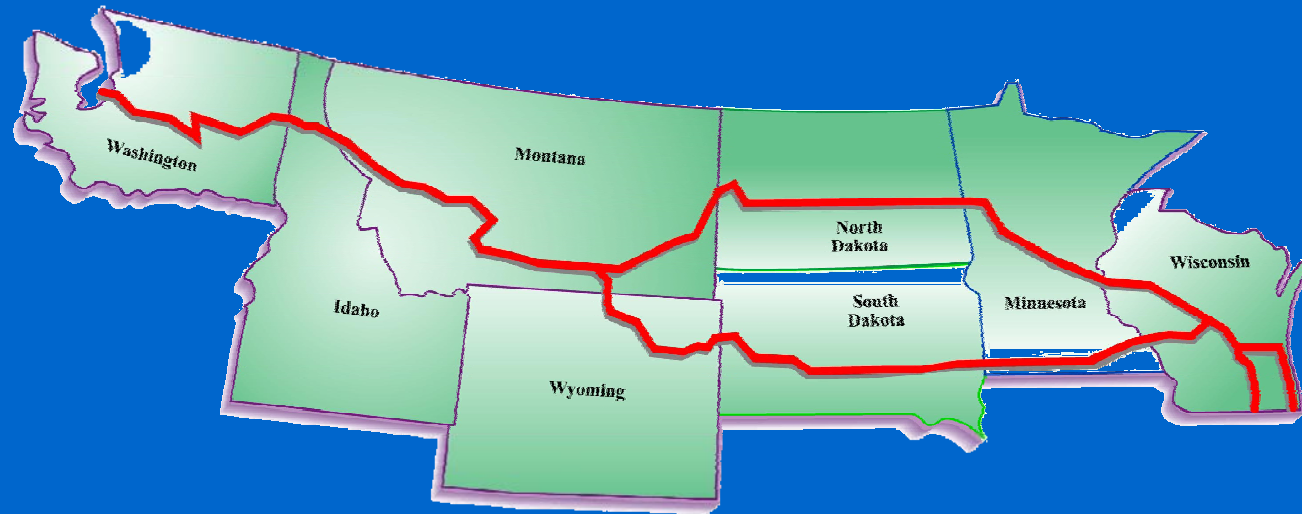
Next Steps

Define “events of regional significance”;

Having defined the “what” move on to the “how”. Develop an implementation strategy.

- Existing center to center and traveler information standards will form the basis for the exchange format.
- Ownership and management of the system.
- Determine how states that do not

The Future of North/West Passage



- SAFETEA LU Section 1201
- Incorporate Weather Data

Contact Information

Mark Nelson

Minnesota DOT

Phone: 651-634-5293

mark.nelson@dot.state.mn.us

www.nwpassage.info

