

## Introduction

An assessment of North/West Passage progress toward goals and objectives established for the corridor was completed in January-February 2013. Projects that have been completed to-date were mapped against each of the Strategic Plan goals as an initial indicator of progress.

- Goal 1:** Integrate state traveler information to provide corridor-wide information appropriate to the location and need of the traveler.
- Goal 2:** Develop and promote cross-border jurisdictional cooperation and coordination in the deployment, operations and maintenance of ITS.
- Goal 3:** Coordinate the planning and deployment of ITS projects for the North/West Passage Corridor into the state, regional, and local planning and programming processes.

That information was then shared with the member states and a series of interviews were conducted to gather each state's impressions of progress toward the stated vision and goals. Finally, an inventory of ITS deployments in the corridor was reviewed as an additional assessment of progress. Information from these sources was combined and reviewed for potential gaps in progress.

Based on the gaps identified in the assessment, this document presents a series of project ideas for North/West Passage to consider as work plans are developed over the next five years (2013-2018). Each project idea includes a purpose statement, suggested timing (near, mid or long-term), estimated budget, background, approach and the program goals it addresses. A summary table of all of the project ideas and their suggested timing is also presented at the conclusion of this document for quick reference.

It is also important to note that the completion of this document coincided with the review of project ideas for Work Plan 8. As such, project ideas 1-4 from this document that are recommended for near-term execution were also incorporated into the pool of project ideas that were considered for Work Plan 8.

<b>Project Title</b>	<b>1. TMC/TOC Operations Coordination Web Site</b>
Project Champion	TBD
Purpose	Develop a password-protected web site to facilitate traveler information and operations coordination among the states.
Suggested Timing	Near-term
Estimated Budget	\$20,000 (Based on previous, similar work developed by the TOPS Lab for GLRTOC and NWP construction and weather related interfaces.)
Background / Current Status	<p>A simple web page to facilitate coordination among the states was created during <a href="#">Project 5.3 – Consistent and Coordinated DMS Use</a>. The web page is available through the North/West Passage program web site by clicking on “TMC/TOC Operations Coordination” and using the appropriate username and password. The password-protected page allows access to various tools that have been developed by North/West Passage to support coordination among the states. After reviewing event evaluations and discussing the TMC/TOC Operations Coordination tasks and tools with the states, it apparent that they need a more sophisticated and engaging tool to support coordination during major events.</p> <p>Note: This project was considered along with other project ideas for Work Plan 8. Although not selected as a specific project to complete at this time, the scope of this project will be further considered by a temporary Operations Task Force that will be established and function over the duration of Work Plan 8.</p>
Approach	<p>The new web site will provide TMC/TOC operations staff with:</p> <ul style="list-style-type: none"> <li>• Map view of major events impacting the corridor,</li> <li>• Information about ITS devices (e.g. DMS, CCTV, 511 services) in the corridor,</li> <li>• Contacts for other TMC/TOC operations staff,</li> <li>• Access to North/West Passage tools developed to support coordination, and</li> <li>• Interface to neighboring corridor efforts (e.g., GLRTOC, LMIGA/Travel Midwest).</li> </ul>
Goals Addressed	This project will further enhance the states’ efforts to develop and promote cross-jurisdictional coordination of operations (Goal 2) and traveler information (Goal 1) for the North/West Passage.

Project Title	2. TMC/TOC Operations Staff Awareness Effort
Project Champion	TBD
Purpose	Increase awareness of North/West Passage coordination tasks and tools among TMC/TOC operations staff within the states.
Suggested Timing	Near-term
Estimated Budget	\$25,000 (Assuming three days to work with each of the eight states.)
Background / Current Status	<p>Following the completion of <a href="#">Project 5.3 – Consistent and Coordinated DMS Use</a>, North/West Passage began hosting seasonal webinars to remind TMC/TOC operations staff of the tools that have been developed to support coordination among the states, particularly during major events. The webinar was first held in the fall of 2011 and the second webinar was held in October 2012. Other than steering committee members’ interaction with staff about North/West Passage, this is the only direct interaction that has been arranged for North/West Passage. Based on a recent evaluation of major event and day-to-day coordination in Projects 6.1 and 7.2 – Corridor Traveler Information Coordination Operational Test and discussing the TMC/TOC Operations Coordination tasks and tools with the states, it was noted that the states believe the right staff have not yet been made well enough aware of the North/West Passage coordination goals.</p> <p>Note: This project could be combined with the suggested project “TMC/TOC Operational Guidelines Integration” since both involve direct interaction with TMC/TOC Operations staff. If combined there would also be some economy in the budget. Also note that this project was considered along with other project ideas for Work Plan 8. Although not selected as a specific project to complete at this time, the scope of this project will be further considered by a temporary Operations Task Force that will be established and function over the duration of Work Plan 8.</p>
Approach	<p>The awareness effort will:</p> <ul style="list-style-type: none"> <li>• Develop outreach materials to share North/West Passage information with TMC/TOC operations staff,</li> <li>• Coordinate with steering committee members to identify existing staff meetings where North/West Passage information may be presented and discussed, and</li> <li>• Identify, with input from the TMC/TOC operations staff, the best way to keep them engaged in North/West Passage after the initial outreach effort is completed.</li> </ul>
Goals Addressed	This project will further enhance the states’ efforts to develop and promote cross-jurisdictional coordination of operations (Goal 2) and traveler information (Goal 1) for the North/West Passage.

Project Title	3. Integration of Operational Guidelines for Coordinating Traveler Information
Project Champion	TBD
Purpose	Assist each state with integrating, and expanding upon where necessary, the <a href="#">Operations Guidelines for Coordinating Traveler Information with Other States along I-90/I-94</a> into their individual operating procedures for managing major events.
Suggested Timing	Near-term
Estimated Budget	\$25,000 (Assuming three days to work with each of the eight states.)
Background / Current Status	<p>The Operations Guidelines for Coordinating Traveler Information with Other States along I-90/I-94 were developed during Project 5.3 – Consistent and Coordinated DMS Use and were accepted by all of the North/West Passage states via a memorandum of understanding in December 2011. Based on a recent evaluation of major event and day-to-day coordination in Projects 6.1 and 7.2 – Corridor Traveler Information Coordination Operational Test, it appears there is limited use of the North/West Passage guidelines. One recommendation for increasing the use of the guidelines has been to integrate them with other operating procedures used by TMC/TOC operations staff in the individual states.</p> <p>Note: This project could be combined with the suggested project “TMC/TOC Operations Staff Awareness Effort” since both involve direct interaction with TMC/TOC Operations staff. If combined there would also be some economy in the budget. Also note that this project was considered along with other project ideas for Work Plan 8. Although not selected as a specific project to complete at this time, the scope of this project will be further considered by a temporary Operations Task Force that will be established and function over the duration of Work Plan 8.</p>
Approach	<p>The integration of state and North/West Passage guidelines will include:</p> <ul style="list-style-type: none"> <li>• Review of the North/West Passage guidelines and memorandum of understanding from 2011 to determine if modifications are needed,</li> <li>• Work with TMC/TOC operations staff in each of the states to identify existing operating procedures and determine how best to incorporate the Operations Guidelines for Coordinating Traveler Information with Other States along I-90/I-94, and</li> <li>• Coordination with TMC/TOC operations staff to identify existing staff meetings where revised procedures may be presented and discussed.</li> </ul>
Goals Addressed	This project will further enhance the states’ efforts to develop and promote cross-jurisdictional coordination of operations (Goal 2) and traveler information (Goal 1) for the North/West Passage.

Project Title	4. Cost/Benefit Tool Application and Outreach
Project Champion	TBD
Purpose	Using the cost/benefit tool previously developed for North/West Passage, this project will work with the states to identify 3-5 deployment projects (past or future) where the tool could be applied and its effectiveness further evaluated.
Suggested Timing	Near-term
Estimated Budget	\$38,000 (Assuming 28-32 hours per five projects to identify, apply and develop case studies, and another 144 hours to evaluate the tool, develop and implement the outreach strategy.)
Background / Current Status	<p>North/West Passage has completed two previous phases related to this project:</p> <ul style="list-style-type: none"> <li>• In <a href="#">Project 5.2</a> – Cost/Benefit ITS Tool Evaluation, a customized Excel spreadsheet was developed with an emphasis on transparency, ease-of-use and the rural applications most commonly used among the North/West Passage states.</li> <li>• <a href="#">Project 6.4</a> – Cost/Benefit Tool Evaluation focused on adding metadata to the tool (e.g. RWIS ties to anti-icing project in Idaho that reduced crashes by 83%) and continuing to enhance the tool.</li> </ul> <p>The tool has not yet been used enough by the states to gauge its effectiveness or the need for further modifications. This project will focus on working with the states to apply the tool, identifying further enhancements to the tool, and identifying an outreach strategy to encourage use of and future input to the tool.</p> <p>Note: This project was considered along with other project ideas for Work Plan 8. Although not selected as a specific project to complete at this time, it will remain in the pool of project ideas for further consideration in future work plans.</p>
Approach	<p>The application and subsequent evaluation of the cost/benefit tool will include:</p> <ul style="list-style-type: none"> <li>• Identify 3-5 projects (past or future) with input from the steering committee members,</li> <li>• Apply the benefit/cost tool to the projects identified,</li> <li>• Evaluate the tool for strengths, weaknesses and potential further enhancements,</li> <li>• Develop case study summaries of the projects the tool was applied to, and</li> <li>• Develop and implement an outreach strategy to present the tool and case studies with agency staff.</li> </ul>
Goals Addressed	This project will further enhance the states’ efforts to coordinate planning and deployment of ITS projects in the corridor (Goal 3).

Project Title	5. Public Awareness Campaign for North/West Passage
Project Champion	TBD
Purpose	Develop a campaign to make the public aware of the North/West Passage tools available to them for traveler information along I-90/I-94.
Suggested Timing	Mid-term
Estimated Budget	\$75,000-100,000 (A portion of the budget will be dedicated to planning and evaluating the outreach. The remaining budget will vary depending on the outreach methods (e.g. billboards, posters at travel information center, travel magazine articles, etc.) selected.)
Background / Current Status	North/West Passage has developed a number of tools to provide traveler information throughout the I-90/I-94 corridor, including a traveler web site at <a href="http://www.i90i94travelinfo.com">www.i90i94travelinfo.com</a> . Upon completion of the Multistate Corridor Operations and Management (MCOM) Operations and Traveler Information Integration Sharing Project (OTIIS), the North/West Passage will have even more information available to travelers and additional tools available for them to access that information. The tools will only be used, however, if travelers are made aware of them. This project will develop a campaign to enhance awareness of the information tools available to travelers in the North/West Passage corridor. This project would be more effective if the work were contracted to a professional marketing firm for execution.
Approach	<ul style="list-style-type: none"> <li>• Identify the target audiences for the campaign,</li> <li>• Develop goals for the desired level of awareness among the target audiences,</li> <li>• Identify the most effective outreach methods (e.g. billboards, posters at travel information center, travel magazine articles, etc.) for the target audiences based on available budget and desired level of awareness,</li> <li>• Develop materials (e.g. artwork, posters, etc.) to support the outreach methods selected,</li> <li>• Implement the outreach effort, and</li> <li>• Summarize the overall effectiveness of the outreach.</li> </ul>
Goals Addressed	This project will further enhance the states' efforts to support and promote traveler information (Goal 1) for the North/West Passage.

Project Title	6. Review of State ITS Deployments
Project Champion	TBD
Purpose	Organize a more formal and scheduled review of the ITS projects and deployments that are planned within each state for the coming year. This will help the states identify deployments that could further support coordination among them and it will create a peer exchange opportunities on individual projects.
Suggested Timing	Mid-term
Estimated Budget	\$25,000 (Primarily to support state travel to a one-day workshop where the exchange of information would occur.)
Background / Current Status	The projects that should be shared during this review are those that directly impact travel on I-90/I-94 and traveler information and transportation management. As projects within individual states are identified, North/West Passage could further support those projects by clearly articulating the corridor need and potential benefits for the member state to incorporate into their planning and programming considerations. This project could also facilitate a discussion about corridor performance management and could potentially be combined with the approach suggested in the proposed project, "Identify Potential Corridor-Oriented Performance Measures."
Approach	<ul style="list-style-type: none"> <li>• Identify a planning/programming representative from each North/West Passage state to engage in the overall project and to attend the one-day workshop with their North/West Passage steering committee representative,</li> <li>• Develop a list of parameters for the type of projects (e.g. new traveler information service, installation of a new DMS) from each state that would be relevant to the I-90/I-94 corridor and for the one-day workshop discussion,</li> <li>• Gather information about and prepare a summary of the projects identified as being most relevant to the I-90/I-94 corridor,</li> <li>• Host one-day workshop; coordinating logistics, preparing invitations, agenda and meeting materials, and facilitating the meeting, and</li> <li>• Prepare a workshop summary that will include recommendations for how this type of information exchange could be sustained in the future.</li> </ul>
Goals Addressed	This project will further enhance the states' efforts to coordinate planning and deployment of ITS projects in the corridor (Goal 3).

<b>Project Title</b>	<b>7. Citizen-Assisted Reporting: Evaluation – Phase 3</b>
Project Champion	TBD
Purpose	Evaluate citizen-assisted reporting as a viable data source for state and regional traveler information, and assess the implications and opportunities for expanded reporting throughout North/West Passage.
Suggested Timing	Mid-term
Estimated Budget	TBD
Background / Current Status	<p>The Wyoming Department of Transportation (WYDOT) has successfully developed and deployed an ECAR program that allows authorized citizens to manually report driving conditions to DOT staff, who then enter the events into the department’s statewide reporting system for dissemination on 511 and the web. Additional details of Wyoming’s ECAR program were of interest to the eight North/West Passage states and the Steering Committee approved a citizen assisted reporting project in their fifth annual work plan. The goals of the <a href="#">Phase 1</a> project were to share details of Wyoming’s ECAR program with the other states, to explore ways in which Wyoming’s program could be improved upon for maximized success in future implementations, and to explore the feasibility of the citizen reporting system expanding to additional states.</p> <p>Through cooperative efforts with North/West Passage, WYDOT is expanding the ECAR program to allow authorized citizens to use a web-based interface to report driving conditions to DOT staff. Also, Idaho Transportation Department (ITD) is developing and implementing a citizen reporting system modeled after the Wyoming system that also will allow authorized citizens to report conditions through a web interface.</p> <p>With the ultimate goals of consistent reporting across state boundaries, and the potential for long distance travelers to report conditions for both Wyoming and Idaho, North/West Passage helped the two states to work together in <a href="#">Phase 2</a> of this effort to develop common reporting phrases and definitions. The common phrases were identified by first reviewing those used in the initial Wyoming ECAR program, then by reviewing the phrases recommended by an earlier North/West Passage project (<a href="#">Project 3.1</a>), and finally by reviewing the phrases used by ITD. Detailed discussions about the use of common phrases allowed both states to come to agreement on a small list of phrases that were seen as manageable for citizen use. It is also important to note that WYDOT is working with the Utah DOT to establish citizen reporting in Utah. The common phrases from this project have been shared with Utah in an effort to continue the consistency between states. This project would evaluate the effectiveness of the ITD citizen assisted reporting program and evaluate the enhancements to the WYDOT ECAR program. The project would also assess and recommend the potential for continued expansion for citizen reporting among the other North/West Passage states.</p>



Project Title	7. Citizen-Assisted Reporting: Evaluation – Phase 3 (continued)
Approach	<p>Idaho Citizen Reporting Evaluation</p> <ul style="list-style-type: none"> <li>• Document the process and lessons learned to implement citizen reporting in Idaho,</li> <li>• Review Idaho citizen reporting program statistics (number of citizen reporters, number of citizen reports, accuracy of reports), and</li> <li>• Survey DOT staff and citizen reporters to learn what has worked well and suggestions for improvement including the use of the phrases available to report road and weather conditions.</li> </ul> <p>Wyoming Citizen Reporting Evaluation</p> <ul style="list-style-type: none"> <li>• Document the process and lessons learned implementing an online citizen reporting tool in Wyoming,</li> <li>• Review Wyoming citizen reporting program statistics (number of citizen reporters using the online application vs. calling in reports, accuracy of reports), and</li> <li>• Survey DOT staff and citizen reporters to learn what has worked well and suggestions for improvement including the use of the phrases available to report road and weather conditions.</li> </ul> <p>Utah Citizen Reporting</p> <ul style="list-style-type: none"> <li>• Document the phrases used by the Utah citizen reporting program and compare the phrases to the North/West Passage recommended phrases</li> <li>• Interview the Utah Citizen Reporting program to discuss consistency in reporting and lessons learned with their citizen reporting program</li> <li>• Recommend enhancements to Wyoming and Idaho’s citizen reporting program and steps to move forward with citizen reporting in other NWP states</li> </ul>
Goals Addressed	This project will further enhance the states’ efforts to support and promote traveler information (Goal 1) for the North/West Passage.

Project Title	8. Corridor Traveler Information App
Project Champion	TBD
Purpose	Building upon the growing demand and popularity of apps to disseminate traveler information, this project would develop an app to alert travelers to major events along the corridor and also provide access to the more detailed information available through the states' individual traveler information services.
Suggested Timing	Mid-term
Estimated Budget	TBD
Background / Current Status	<p>Since 2010, AASHTO's <a href="#">Subcommittee on Transportation Communications</a> has tracked department of transportation social media use for a variety of purposes. In their third annual <a href="#">State DOT Social Media Survey</a>, 38% of state DOTs offer content that is optimized for mobile web browsers and 31% offer mobile apps offering access to traffic information and other traveler information. This reflects the states' understanding that the customer demand for mobile information is growing.</p> <p>This project will develop an app that can be used by travelers along I-90/I-94. It will complement the existing <a href="http://www.i90i94travelinfo.com">www.i90i94travelinfo.com</a> web site and convey similar information to travelers within the corridor.</p> <p>Note: This project may be addressed in the MCOM OTIIS project.</p>
Approach	<ul style="list-style-type: none"> <li>• Review changes to <a href="http://www.i90i94travelinfo.com">www.i90i94travelinfo.com</a> that have occurred as a result of the MCOM OTIIS project,</li> <li>• Develop a concept of operations and system requirements for the companion app,</li> <li>• Develop an RFP to procure a contractor to develop and integrate the app, and</li> <li>• Develop and execute a marketing plan to launch the app throughout the corridor.</li> </ul>
Goals Addressed	This project will further enhance the states' efforts to support and promote traveler information (Goal 1) for the North/West Passage.

Project Title	9. Sponsor North/West Passage Participation in National Freight Organizations
Project Champion	TBD
Purpose	Expand the North/West Passage presence as a growing freight corridor among national freight organizations by sponsoring a representative from one member state to represent the corridor’s interests at select meetings and conferences.
Suggested Timing	Mid-term
Estimated Budget	TBD
Background / Current Status	<p>During the assessment performed for <a href="#">Project 7.1 – Goal Assessment and Planning for ITS Corridor Deployment</a>, a limited understanding of commercial vehicle travelers’ needs and operational challenges was identified as a significant gap between the work completed by North/West Passage and the group’s goals for traveler information and operations in the corridor. Most of the North/West Passage states feel that enough is known about travelers’ needs in general – particularly in relation to the level of impact that the pooled fund projects can have.</p> <p>In contrast, several states commented that the steering committee members have limited knowledge of commercial vehicle travelers’ needs and operations. This can then limit the type of projects selected and the implementation of results upon project completion. For example, North/West Passage has completed several projects related to over-dimension permitting. To supplement the steering committee’s limited knowledge the group has engaged permitting staff from the North/West Passage states to identify challenges with current permitting processes and identify potential opportunities to address them. The engagement and exchange of information among the states is very constructive and useful. However, the project results often require legislative changes or significant changes to the systems used for issuing permits. Limited staff authority and budget to accomplish such changes can restrict further implementation of project results.</p> <p>The purpose of this project is to sponsor a representative from one North/West Passage state to represent the corridor’s interests at select national freight meetings and conferences.</p>
Approach	<ul style="list-style-type: none"> <li>• Travel and attendance (2-4 meetings),</li> <li>• Prepare, as needed, informational materials to support meeting participation by the North/West Passage representative, and</li> <li>• Report on key findings to steering committee.</li> </ul>
Goals Addressed	This project will further enhance the states’ efforts to develop and promote cross-jurisdictional coordination of operations (Goal 2) and traveler information (Goal 1) for the North/West Passage.

Project Title	10. Evaluate RTSMIP-Required State Traffic and Travel Conditions for Regional Application
Project Champion	TBD
Purpose	Evaluate the RTSMIP-compliant traffic and travel conditions provided by each state as viable sources for providing regional traveler information along I-90/I-94.
Suggested Timing	Mid- to long-term
Estimated Budget	TBD
Background / Current Status	<p>The Real-Time System Management Information Program (RTSMIP) was included in Section 1201 of SAFETEA-LU. The program is to provide the capability to monitor in real-time the traffic and travel conditions of major roadways across the country and provide a means for sharing these data with state and local governments and with the traveling public. A final rule was also published in November 2010 establishing parameters for the RTSMIP to be established by state DOTs, other responsible agencies and partnerships with other commercial entities. The program is to be established on all interstates by November 2014 and on other significant roadways as identified by the States and local agencies by November 2016.</p> <p>The Real-Time System Management Information Program provides a foundation of basic traffic and travel conditions information that may be built upon and used by public agencies, other public and private parties who may deliver value-added information products, and the traveling public. A data exchange format specification has also been developed by USDOT to support the interchange and use of the information among agencies and other parties.</p> <p>North/West Passage has previously attempted to provide real-time information on its public web site <a href="http://www.i90i94travelinfo.com">www.i90i94travelinfo.com</a> but there were challenges with receiving and integrating data from all of the states in a consistent manner. This project is to evaluate the RTSMIP-compliant traffic and travel conditions provided by each state as viable sources for providing real-time traveler information via <a href="http://www.i90i94travelinfo.com">www.i90i94travelinfo.com</a> (or other corridor traveler information services).</p>
Approach	<ul style="list-style-type: none"> <li>• Document each state’s approach and progress toward the RTSMIP goals established for all interstates by November 2014,</li> <li>• Assess the data provided by each state and determine if it is accessible in a format that could be used for <a href="http://www.i90i94travelinfo.com">www.i90i94travelinfo.com</a> (or other corridor traveler information services, and</li> <li>• Develop a summary report with details of the assessment and recommendations for using the states’ data in the future.</li> </ul>
Goals Addressed	This project will further enhance the states’ efforts to support and promote traveler information (Goal 1) for the North/West Passage.

Project Title	11. Incorporate Warrants into Benefit/Cost Tool
Project Champion	TBD
Purpose	Incorporate the developing warrant information available for select ITS devices into the benefit/cost tool to expand its value and application in agency decision-making.
Suggested Timing	Long-term
Estimated Budget	TBD
Background / Current Status	<p>North/West Passage has completed two previous phases related to this project:</p> <ul style="list-style-type: none"> <li>• In <a href="#">Phase 1</a> a customized benefit/cost excel spreadsheet tool was developed with an emphasis on transparency, ease-of-use and rural applications most commonly used among the North/West Passage states.</li> <li>• <a href="#">Phase 2</a> focused on continuing to add metadata to the tool (e.g. RWIS ties to anti-icing in Idaho reduced crashed by 83%) and continuing to enhance the tool.</li> </ul> <p>A Phase 3 of this project will focus on summarizing uses of the tool, identifying enhancements to the tool, and identifying an outreach plan to encourage use and input to the tool.</p> <p>Based on the input and enhancements to the North/West Passage benefit/cost tool completed in Phase 3, this project (Phase 4) will incorporate available ITS device warrants as another component to support the benefit/cost analysis provided with use of the North/West Passage benefit/cost tool.</p> <p>The ENTERPRISE Pooled Fund Study has created warrants for nine ITS devices (<a href="http://enterprise.prog.org/itswarrants/">http://enterprise.prog.org/itswarrants/</a>). It is assumed that North/West Passage would work with ENTERPRISE to coordinate this project.</p>
Approach	<ul style="list-style-type: none"> <li>• Coordinate with ENTERPRISE to gain understanding of both efforts (North/West Passage cost/benefit tool and ENTERPRISE ITS warrants) and identify needs from both programs,</li> <li>• Identify the process to incorporate ITS warrants into the North/West Passage cost/benefit tool,</li> <li>• Enhance the North/West Passage cost/benefit tool to include ITS warrants,</li> <li>• Identify 3-5 projects to use as examples of results of the tool, and</li> <li>• Conduct outreach to states to review the 3-5 examples and provide input.</li> </ul>
Goals Addressed	This project will further enhance the states' efforts to coordinate planning and deployment of ITS projects in the corridor (Goal 3).

Project Title	12. Identify Potential Corridor-Oriented Performance Measures
Project Champion	TBD
Purpose	Review the evolution of states' individual performance measures and any relevant national measures to determine if and what measures could be useful for understanding and managing corridor-oriented performance across a region like North/West Passage.
Suggested Timing	Long-term
Estimated Budget	TBD
Background / Current Status	<p>MAP-21 established performance measures for states to invest resources in projects that will collectively make progress toward the achievement of national goals while improving decision-making. The legislation requires that performance measures be established within 18 months of enactment for the areas listed below:</p> <ul style="list-style-type: none"> <li>• Pavement condition on Interstate System and on remainder of National Highway System (NHS)</li> <li>• Performance of Interstate System and the remainder of NHS</li> <li>• Bridge condition on NHS</li> <li>• Fatalities and serious injuries—both number and rate per vehicle mile traveled--on all public roads</li> <li>• Traffic congestion</li> <li>• On-road mobile source emissions</li> <li>• Freight movement on Interstate System</li> </ul> <p>Several of these measures may impact regional and cross-country corridors like I-90/I-94. FHWA is conducting a research study on “How to Improve Performance on Corridors of National Significance.” The goal of the research project is to understand how states can work together to use performance management elements to improve corridor performance in the MAP-21 goal areas of safety, infrastructure condition, freight movement and economic vitality, and congestion reduction and system reliability. The research involves the incorporation of current information on performance management along with corridor-level planning, management and operations. A key focus has also been on the institutional element: how corridor coalitions develop and how their members work together and with other partners. The North/West Passage strategic plan and cost/benefit tool have been specifically called out as noteworthy practices in the research. This project will review the North/West Passage states' individual practices with performance management, as well as any national level measures to determine what measures could be used to understand and management performance within the I-90/I-94 corridor.</p> <p>Note: Performance management is commonly incorporated within agency planning functions. As such, Initial discussions on corridor performance could be done in conjunction with the one-day planning oriented workshop suggested for the project, “Review of State ITS Deployments.”</p>

Project Title	12. Identify Potential Corridor-Oriented Performance Measures (continued)
Approach	<ul style="list-style-type: none"> <li>Review each North/West Passage state policy and practice related to performance management,</li> <li>Review national guidance regarding performance particularly as it relates to corridors, and</li> <li>Prepare a summary report that identified which measures, processes, targets, etc. may be applicable to managing performance along I-90/I-94,</li> </ul>
Goals Addressed	This project will further enhance the states' efforts to coordinate planning and deployment of ITS projects in the corridor (Goal 3).

### Summary of Project Ideas 2013-2018

Project	Prospective Year					
	2013	2014	2015	2016	2017	2018
1. TMC/TOC Operations Coordination Web Site	X	X				
2. TMC/TOC Operations Staff Awareness Effort	X	X				
3. TMC/TOC Operational Guidelines Integration	X	X				
4. Evaluation of Benefit/Cost Tool	X	X				
5. Public Awareness Campaign for North/West Passage			X	X		
6. Review of State ITS Deployments			X	X		
7. Evaluate Effectiveness of Citizen-Assisted Reporting			X	X		
8. Corridor Traveler Information App			X	X		
9. Sponsor North/West Passage Participation in National Freight Organizations			X	X		
10. Evaluate RTSMIP-Required State Traffic and Travel Conditions for Regional Application			X	X	X	X
11. Incorporate Warrants into Benefit/Cost Tool					X	X
12. Identify Potential Corridor-Oriented Performance Measures					X	X
<b>Suggested Timing</b>	<b>Near</b>	<b>Near</b>	<b>Mid</b>	<b>Mid</b>	<b>Long</b>	<b>Long</b>

Considered in Work Plan 8