



Expediting Planning and Environmental Review of Key Global Transportation Projects in the Intermountain West Region

Overview of FWHA SHRP2
Project Efforts to Date and
Meeting Goals

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- Background information:
 - SHRP2, Intermountain West Region
 - Overview of Project Goals
 - Completed Efforts to Date
- Meeting Goals



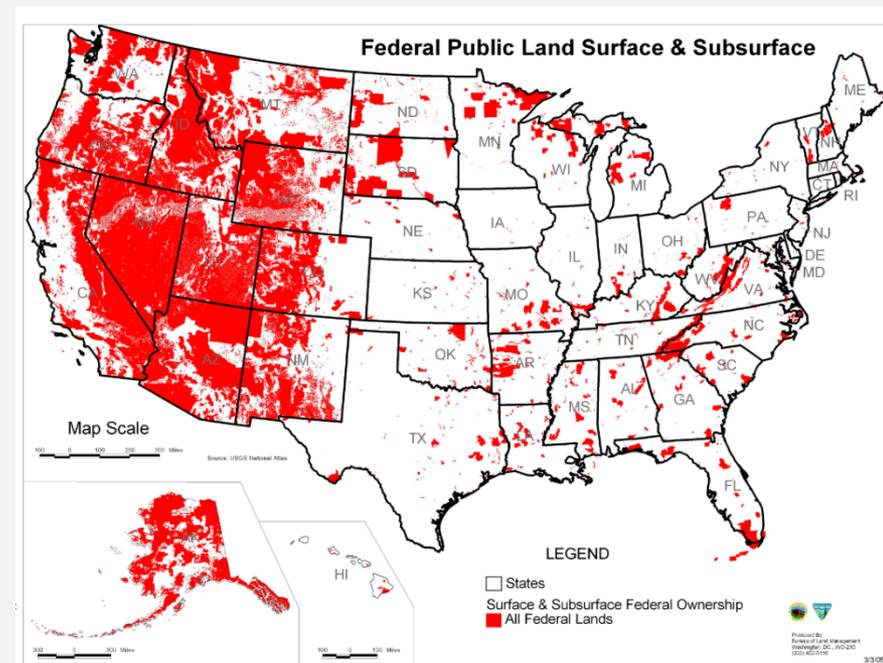
Strategic Highway Research Program (SHRP2) Grant



- Authorized by Congress to address some of the most pressing needs related to the nation's highway system
 - Save Lives. Save Money. Save Time.
 - Provide new research-based tools and innovative products and processes that will create more efficiencies and a smarter use of state and federal investments of taxpayer dollars
- FHWA awarded a grant to MAG to advance deployment of multi-objective solutions that expedite transportation project delivery in the **broader Intermountain West Region**

Intermountain West Region

- People: Over 7% of the U.S. population; 4 of the 8 fastest growing states
- Money: ~7 % of US GDP, nearly a trillion dollars (2012)
- Trade: Exports increased significantly faster than those of the rest of the US over the last decade
- Land Management:
 - **Widely varied natural resources** that are subject to pressure from population growth in the region
 - **Population is concentrated** in relatively small number of major cities, surrounded by considerable rural and frequently mountainous or desert areas

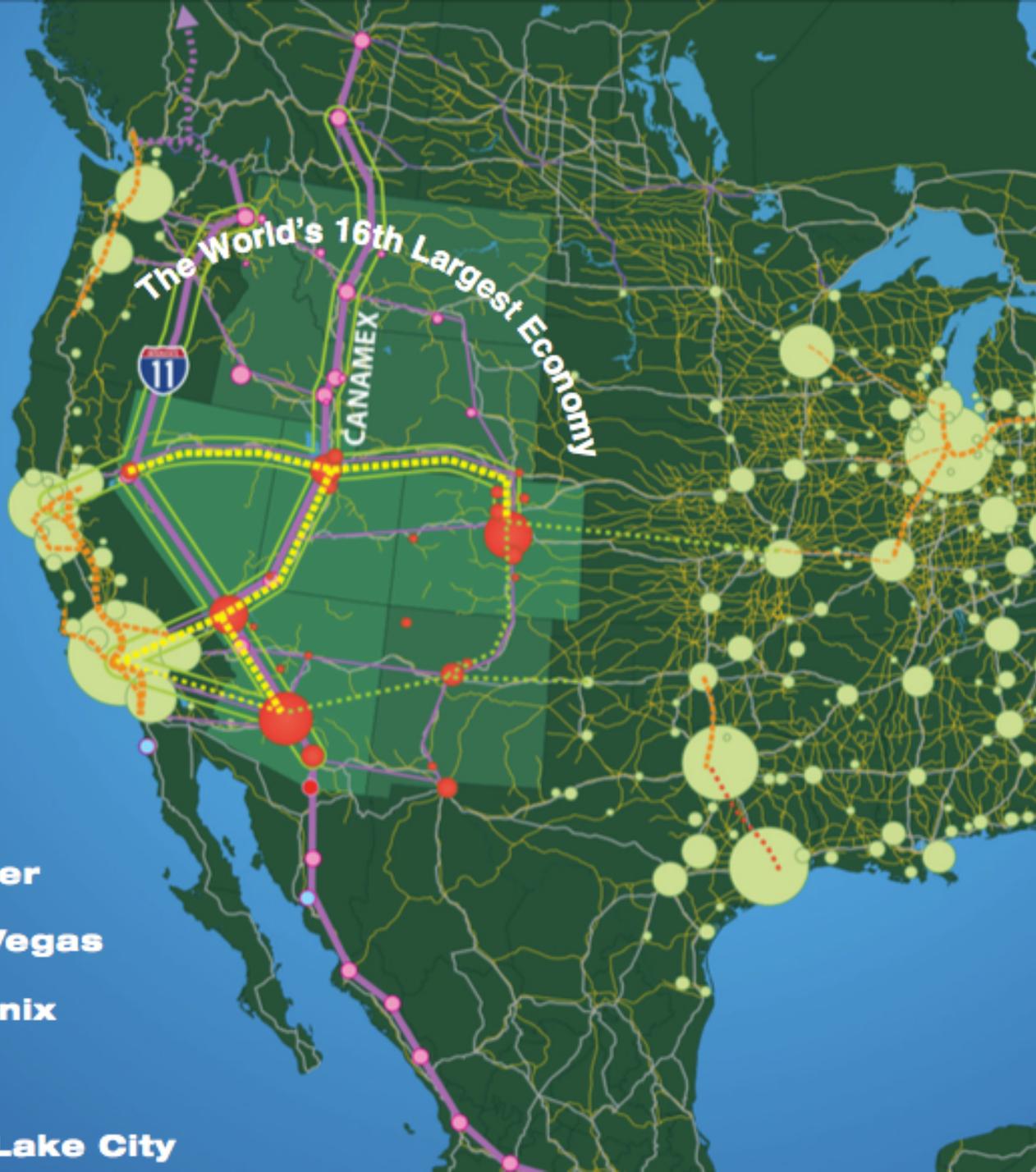


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Collaboration on long-term strategies for multimodal transportation will help the region:

- Connect communities, trade hubs, airports, roadways and railroad
- Move goods and people
- Compete for international trade
- Enhance the economic vitality of communities connected and served by the corridors
- Improve safety, travel time and reliability





The World's 16th Largest Economy

CANAMEX



Denver

Las Vegas

Phoenix

Reno

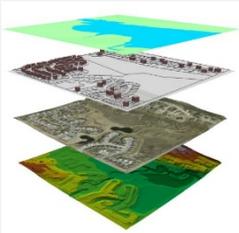
Salt Lake City

Project Goals

Helping to Build a Regional Collaborative Network



Conduct outreach to the MPOs, TMAs, State DOTs and other key stakeholders **to identify needs and potential gaps** related to **transportation and data resources**



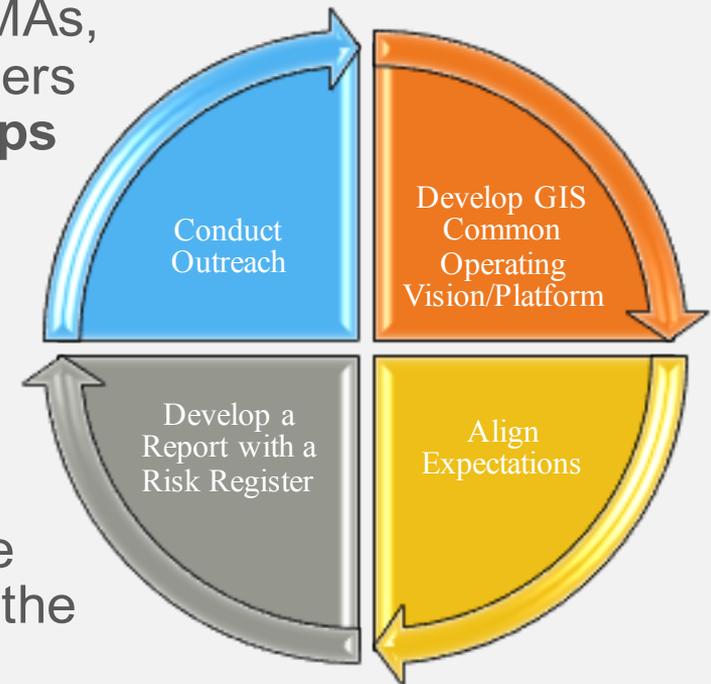
Develop GIS Common Operating Vision/Platform for easier data information sharing



Align expectations for a long-range vision to move people and goods in the Region



Develop Report with Risk Register



Risk Register

(Risk Management Tool)

- Provides awareness of threats and opportunities associated with achieving transportation elements
 - Examples: Construction risks (unidentified utility impacts; unexpected archeological findings, etc.), Design, Environmental, External (project not fully funded), Organizational, and right of way risks
- Enables partners to collaborate to develop and implement a strategy to effectively manage threats and opportunities
 - Focus limited resources
 - Ensure project success
 - Reduce extraneous costs; control costs
 - Strengthen the ability to efficiently manage program and project delivery
 - Improve communication and manage risk corporately



Risk Register

(example from FHWA P3 Toolkit)

Risk Identification

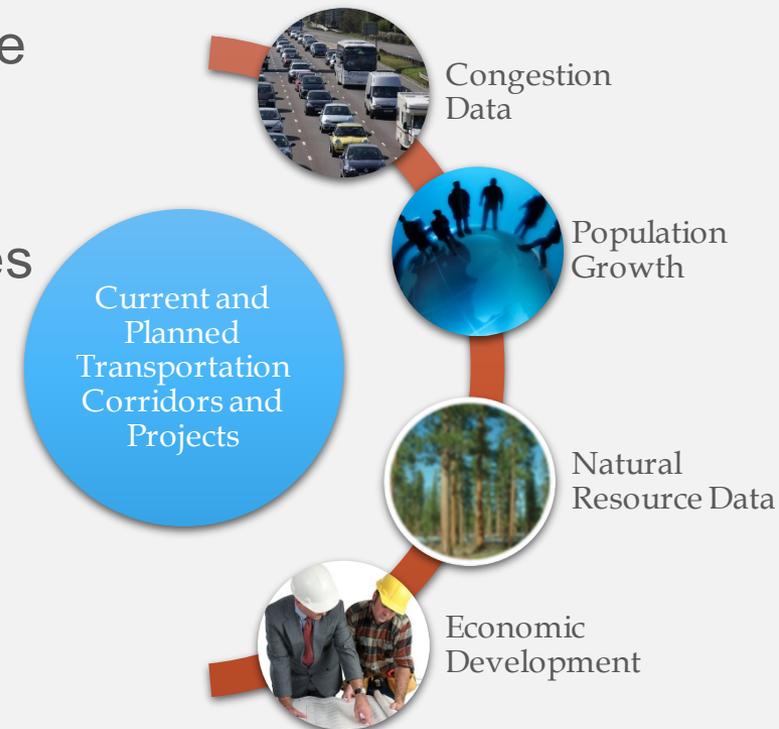
Risk Number	Risk Category	Impact Phase	Risk type	Description	Consequence of Risk
1	Environmental	Construction	Threat	The project is in marshy ground that is prone to flooding and there have not been many boreholes. Later investigations may uncover worse ground than that assumed in preliminary engineering.	Change in design during early stages will require update of cost estimate. Changes on site could result in increase in project costs and potential delay to construction.

Source:

http://www.fhwa.dot.gov/ipd/p3/toolkit/p3_value_webinars/p3_webinar_project_risk_assessment_092013.aspx

GIS Common Operating Vision/Platform

- Provide decision makers with better situational awareness of the region and be able to make more fully informed decisions
- Build upon existing collaborative efforts to best leverage resources and eliminate redundancies
- Working collaboratively to:
 - Assess available GIS data resources through survey
 - Develop a common GIS vision/platform
 - Collaborate on data conflicts, data standards and gaps
 - Develop best methods for sharing data



Timeline

2013:

- October 24: Announcement of FHWA SHRP2 award

2014:

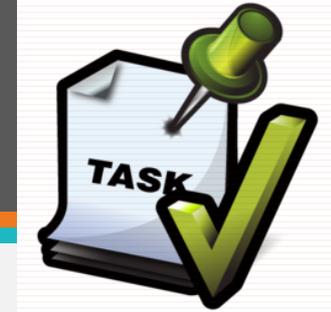
- February: Funds obligated; contract with DOT finalized
- April 1: FHWA Kick-off call to confirm performance measures, expected deliverables, resources, funding and next steps
- April 2: Request for technical assistance
- April 2: Email to Intermountain West MPO/TMA Directors to introduce project and seek input on project and staff POC
- April 14: Call with Intermountain West MPO/TMA Directors to introduce project and seek input on project and staff POC

Timeline

(continued)

- May 15, 2014: Follow up email to Intermountain West MPO/TMA Directors to identify staff POC and send project fact sheet and draft work plan
- August 7, 2014: Send out Draft GIS survey for review
- August 12, 2014: Call with technical staff to review GIS Survey; seek input for refinement
- October 17, 2014: Webinar to highlight GIS survey results and discussion
- October 28, 2014: Webpage for project is unveiled
- October 2014-now: GIS information sharing webinars; data surveys and data collection

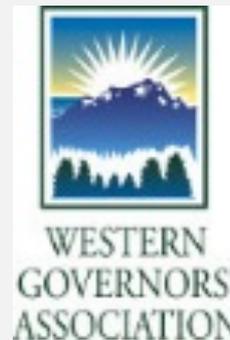
Completed Efforts to Date



- **Outreach related:**
 - Kick-off meeting with IMW Directors and key technical contacts
 - Calls with key stakeholders such as WRA, etc. to build out team
 - Prepared outreach material (project fact sheet and webpage with relevant project information)
 - Developed Communication Network
 - Briefed (in-person) Intermountain MPO/TMA/Transit Meeting
- Developed **project timeline**
- **GIS-Data Related:**
 - GIS Survey circulated and consolidated; review of analytics; assessment of available data in region; follow up interviews with 14 agencies for data gathering

Webinars Highlighted GIS Tools in Region (October 2014 - now)

Over 10 webinars to date provide overview of project and to highlight key web mapping services/GIS tools in the region



Highlights of GIS Follow up Interviews (March 2015)

- Commonalities:
 - Webinars improved understanding of region's tools and functionalities
 - Helpful to share information/learn from others; transferable efforts; perhaps better purchasing power could be gained
 - Limited staff resources/Need for efficiencies
 - Need for data to be refreshed/maintained
 - Need for data commonality
- In general not many concerns with sharing information
 - Some require data agreement; others data is publically accessible
 - Some data is available via WMS
 - Most data would be shared via FTP site

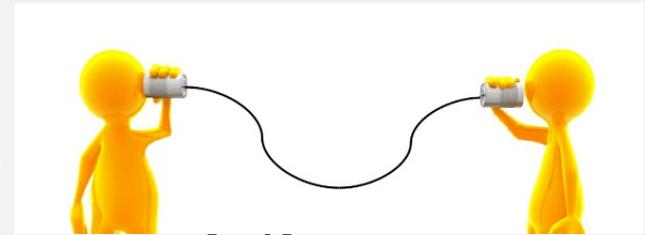


Meeting Goals



- **Information Exchange**

- To develop a better understanding of the SHRP2 project including how the project could **benefit** your agency
- Opportunity to learn about current agency projects and needs; leverage efforts



- **Project Data Discussions and Recommendations**

- Data sets available for this project; identify data gaps/recommendations
- Methods used to analyze data; how to assess “risk”

- **Transportation Analysis & Opportunities**

- **Design of Data Tool**

- Features; highlight methods for better data sharing/collaboration



Thank you!

