

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



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UPDATE ON SHRP2 EFFORTS

# Today's Agenda

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- Background on SHRP 2 Grant
  - Project Goals
- Update on Efforts Since Last Call (August 12)
  - Survey Responses
  - Review of Data and Discussion
- Next Steps



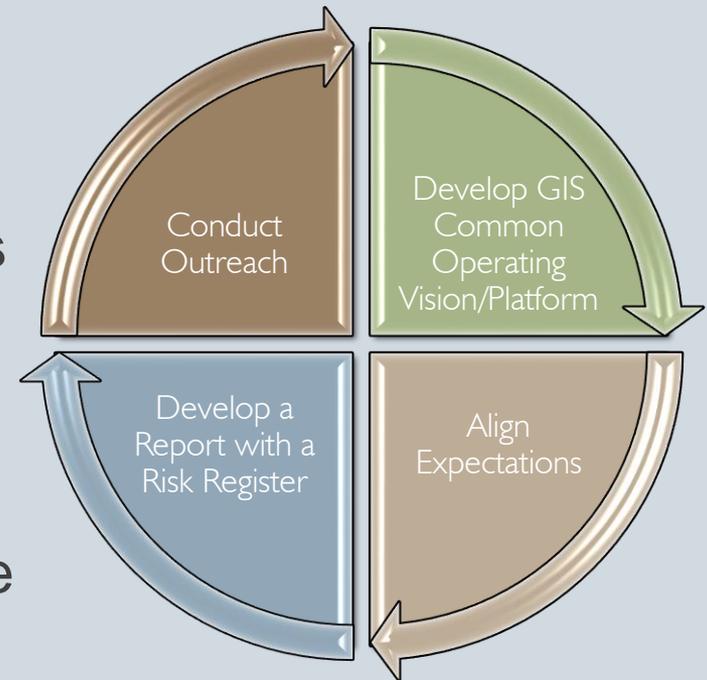
# Strategic Highway Research Program (SHRP2) Grant



- 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**
  - Collaborative effort with Western Regional Alliance
  - Partner with **MPOs, DOTs and TMAs to begin aligning priorities, expectations next steps**
  - Opportunity to work with other key partners (e.g. BLM, FHWA, NPS, DoD, USFWS; Tribal entities; State agencies; WGA, etc.)
  - Multi-phase effort

# Project Goals

- **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 Intermountain West Region
- **Develop Report with Risk Register**



# 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



Thank you for your input!

# Your Input is valuable

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With your input we will be able to:

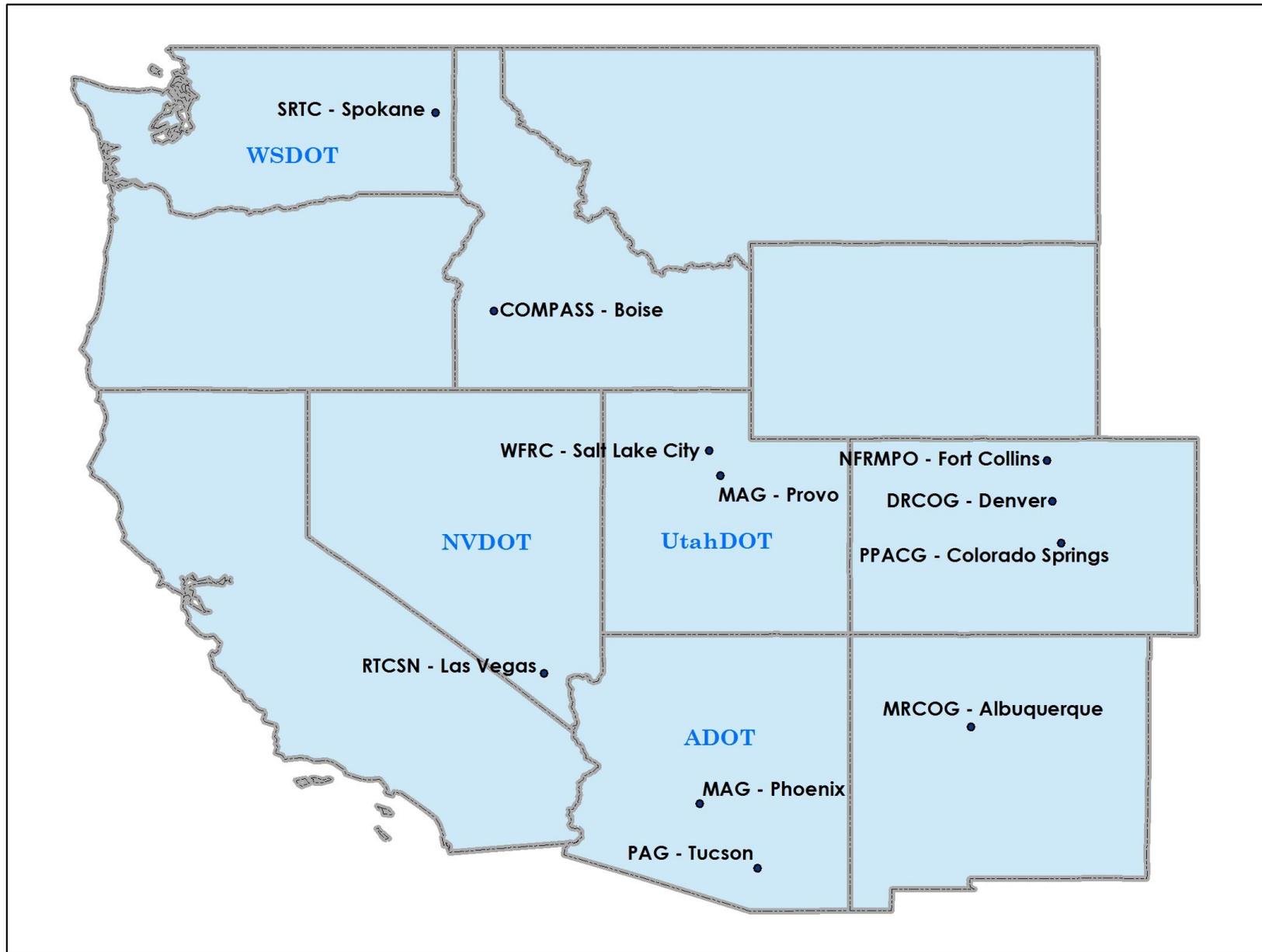
- Develop a transportation related GIS network throughout Intermountain West Region
- Have data accessible in one location
- Determine how best to integrate the authoritative data in an efficient and cost-effective manner
- Assist broader goals to collaborate on long-term strategies for multimodal transportation to benefit the region

# Survey Responses

(as of October 14, 2014)



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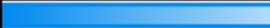


# Review of Data

(details on next slides)



- **Overview of Findings** (*Based on Input Received*)
  - Available Data
  - Data that can be shared
  - On-line data tools available
  - Data “themes” available to collect now
  - Potential Data gaps/needs

Survey Responses	Available		Sharable		Data Source			
	Yes	No	Yes	No	MPO/Member Agency	State	Multiple	Other
<b>Section Two: Data Related Questions</b>								
a. Current Land Use	11		11		 9		 2	
b. Planning/Zoning	11		11		 11			
c. Development Projects (pipeline projects)	7	4	7		 6			 1
d. Employment Inventory	11		8	3	 5	 5	 1	
e. Housing (dwelling units inventory)	11		11		 10		 1	
f. Land Ownership (private, federal, state, military, etc.)	11		11		 7	 4		
g. Demographic Data (other than Census)	6	5	6	1	 5			 1
h. Open Space	10	1	10		 9	 1		
i. Natural Constraints (terrain, wildlife corridors, floodplain, etc.)	11		11		 5	 2	 2	 2
j. Current and future transportation networks (highways, major roads, rail, airport, etc.)	11		11		 6	 1	 4	
k. Buildings and landmark location (education, facilities, etc.)	8	3	8		 3	 2	 2	 1
<b>Section Three: Projections</b>								
a. Population	11		11		 7		 4	
b. Housing	11		11		 8		 3	
c. Employment	11		11		 9		 2	
<b>Section Four: Transportation</b>								
a. Current and future transportation networks (highways, transit, etc.)	11		11		 10			 1
b. VMT	11		11		 10			 1
c. VHT	11		11		 10			 1
d. TAZ to TAZ travel times	11		11		 10			 1
e. TAZ geography	11		11		 10			 1

NOTE : 11 responding MPOs tallied. 4 state DOTs not tallied due to different types of data and organizational responsibilities.

## ARIZONA

<u>Agency</u>	<u>Name of Regional Website</u>
PAG	<ul style="list-style-type: none"> <li>• Interactive Maps</li> <li>• Travel Data and Forecasting</li> </ul>
Tucson	<ul style="list-style-type: none"> <li>• ZoomTucson</li> <li>• Map Resources</li> </ul>
Marana	<ul style="list-style-type: none"> <li>• Marana Map</li> </ul>
Oro Valley	<ul style="list-style-type: none"> <li>• Oro Valley Maps - GIS</li> </ul>
Pima County	<ul style="list-style-type: none"> <li>• Pima Maps</li> </ul>
MAG	<ul style="list-style-type: none"> <li>• Interactive Map Viewer</li> </ul>



## COLORADO

<u>Agency</u>	<u>Name of Regional Website</u>
DRCOG	<ul style="list-style-type: none"> <li>• Denver Regional Equity Atlas</li> <li>• Regional Data Catalog</li> <li>• Metro Vision</li> </ul>
CDOT	<ul style="list-style-type: none"> <li>• Online Transportation Information System (OTIS)</li> </ul>
RTD Denver	<ul style="list-style-type: none"> <li>• RTD Data Downloads</li> </ul>
Pitcon Foundation	<ul style="list-style-type: none"> <li>• Colorado Data Engine</li> </ul>
State of Colorado	<ul style="list-style-type: none"> <li>• Colorado Information Marketplace</li> </ul>
NFRMPO	<ul style="list-style-type: none"> <li>• NFRMPO GIS</li> <li>• Crosswalk Cooperative Planning (AECOM)</li> </ul>
El Paso County	<ul style="list-style-type: none"> <li>• Geographic Information Systems</li> </ul>
Colorado Springs	<ul style="list-style-type: none"> <li>• Interactive Maps</li> </ul>



## IDAHO

<u>Agency</u>	<u>Name of Regional Website</u>
COMPASS	<ul style="list-style-type: none"> <li>• Mapping and GIS</li> </ul>
Boise	<ul style="list-style-type: none"> <li>• Property Viewer</li> </ul>
Ada County	<ul style="list-style-type: none"> <li>• Mapping Services</li> </ul>
Ada County Highway District	<ul style="list-style-type: none"> <li>• RITA</li> </ul>
Canyon County	<ul style="list-style-type: none"> <li>• Interactive Map</li> </ul>
State of Idaho	<ul style="list-style-type: none"> <li>• Highway Info</li> </ul>



## NEW MEXICO

<u>Agency</u>	<u>Name of Regional Website</u>
University of New Mexico	<ul style="list-style-type: none"> <li>• Earth Data Analysis Center</li> </ul>
Albuquerque New Mexico	<ul style="list-style-type: none"> <li>• ABQ Maps</li> </ul>
NMDOT	<ul style="list-style-type: none"> <li>• Maps</li> </ul>



## NEVADA

<u>Agency</u>	<u>Name of Regional Website</u>
Clark County	Open Web
RTCWashoe	Map Warehouse



## UTAH

<u>Agency</u>	<u>Name of Regional Website</u>
Mountainland AOG	<ul style="list-style-type: none"> <li>• MAG GIS Data</li> </ul>
Utah County	<ul style="list-style-type: none"> <li>• County Maps and GIS Data</li> </ul>
Utah AGRC	<ul style="list-style-type: none"> <li>• Automated Geographic Reference Center</li> </ul>
UDOT	<ul style="list-style-type: none"> <li>• Data Portal</li> <li>• Uplan UDOT Map Center</li> </ul>
WFRC	<ul style="list-style-type: none"> <li>• WFRC Map Gallery</li> </ul>



## WASHINGTON

<u>Agency</u>	<u>Name of Regional Website</u>
SRTC	<ul style="list-style-type: none"> <li>• Maps</li> </ul>
Spokane County	<ul style="list-style-type: none"> <li>• SCOUT</li> </ul>
Spokane	<ul style="list-style-type: none"> <li>• Maps Spokane</li> </ul>
WSDOT	<ul style="list-style-type: none"> <li>• WSDOT GeoData Distribution Catalog</li> </ul>
State of Washington	<ul style="list-style-type: none"> <li>• Washington State Geospatial Open Data Portal</li> </ul>



**SHRP2 Expediting Project Delivery (C19) - Maricopa Association of Governments**

**Action Plan**

	Q214	Q314	Q414	Q115	Q215	Q315	Q415	Q116
<b>1 Align Expectations (Risk Register and Report)</b>								
1a Kick-off meeting with IMW Directors	■							
1b Kick-off meeting with Key Technical Contacts	■							
1c Draft risk register and report		■	■	■	■	■	■	
1d Finalize Risk Register and Report							■	■
1e Close out meeting (Directors + tech staff)								■
<b>2 Develop GIS Common Operating Vision/Platform</b>								
2a Conduct survey on existing GIS data methods & tools		■	■					
2b Webinar w/ tech staff to share survey results & discuss next steps		■	■					
2c Follow up on GIS survey input to address gaps			■					
2d Identify GIS datasets/themes and gaps			■	■				
2e Identify and address data gaps			■	■				
2f Individual discussions with agencies - data collection, usage, licensing, coordination			■	■				
2g Share/upload data			■	■				
2h Data evaluation/identify best analytic tool(s) and design features			■	■				
Create and evaluate common data platform schema and look-up tables for available			■	■				
datasets			■	■				
Meeting with tech leads: data platform, reporting/mapping tools, etc. - status and			■	■				
design			■	■				
2k Create datasets for common data platform utilizing the look-up tables			■	■				
2l Develop a common GIS platform/Spec Tool			■	■				
2m Develop custom analytics for risk register and identify pathway			■	■				
Webinars for status update, evaluation of progress, data update meetings monthly/as			■	■				
needed			■	■				
<b>3 Communications/Outreach</b>								
Prepare outreach material (fact sheets, overview pp presentations) to provide	■	■						
information on project.	■	■						
3b Participate in WRA calls to share information on project	■	■						
GIS/Analytical webinars every 2 weeks (highlight existing resources/tools). Volunteers	■	■						
needed.	■	■						
3d IMW Directors Project status update (conference call)			■	■				
Continue follow up with technical contacts, IMW Directors, key stakeholders to			■	■				
receive project input (key corridors, collaboration etc.)			■	■				
3f Public engagement/communications best practices/lessons learned drafted			■	■				

**DRAFT**

Tasks Completed: ■

# Webinars



## • Sharing of Existing Resources and Tools

- Webinars to take place every two weeks; NLT one-hour
  - Two presentations will be highlighted for each call
    - Please let us know if you would like to present
  - Update provided on latest project efforts and seek input
- NEXT WEBINAR: Friday, October 31, 2014 at 10 am MST



During the webinars, we ask that you share information about your on-line tools for the following capabilities/functions:

- Data Sharing (Upload/Download)
- Data Editing
- Data Review
- Metadata
- Interactive Mapping
- Static Maps
- Custom Reporting
- Charting/Analytics
- Spatial Analysis

# Upcoming Actions; Calls and Meetings

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- **Follow up discussions with each of you on data collection, usage, licensing, coordination**
  - Identify best methods for sharing data; data sharing constraints
- **In-Person Meetings/calls**
  - Directors/Key Policy Makers –
    - ~ Call December 2014/January 2015 to provide status update and seek input
    - Meeting TBD
  - GIS/Technical Leads
    - ~ Spring 2015 to review data platform; review analysis capability; determine gaps and next steps

# Any Questions?

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