

# Welcome to the MAG SHRP2 Webinar

- For audio, dial 602-744-5840 and enter meeting ID 74772#
- We look forward to your input on this webinar
- Please be sure your phone is on mute (and not hold) This will ensure we will not have noise distractions on the webinar (such as beeps, other conversations, etc.)
  - *A phone can be muted on the phone or through Adobe Connect*
    - *Press \*6 to mute and #6 to unmute your phone through the audio conferencing system*
- Please identify yourself each time before speaking throughout the whole meeting
- Please let us know if you have any questions or comments by using the chat box or by “raising your hand”

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

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MARCH 2015 UPDATE

**SHRP2**



STRATEGIC HIGHWAY  
RESEARCH PROGRAM

# Strategic Highway Research Program (SHRP2) Grant

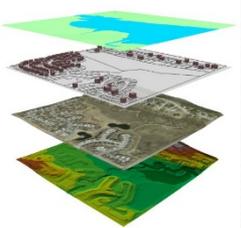
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- FHWA awarded a grant to MAG to advance deployment of multi-objective solutions that expedite transportation project delivery in the **broader Intermountain West Region**
  - Collaborative effort with Western Regional Alliance
  - Partner with **MPOs, 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**



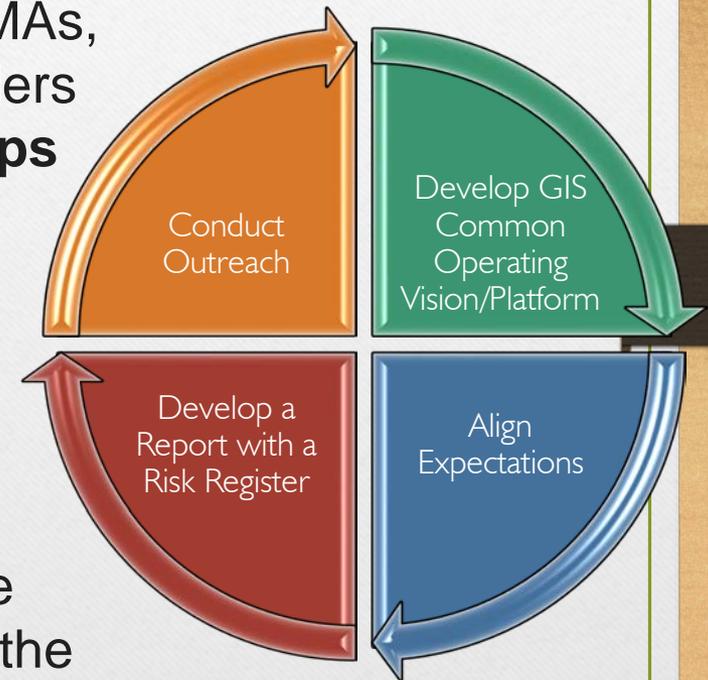
**Develop GIS Common Operating Vision/Platform** for easier data information sharing



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

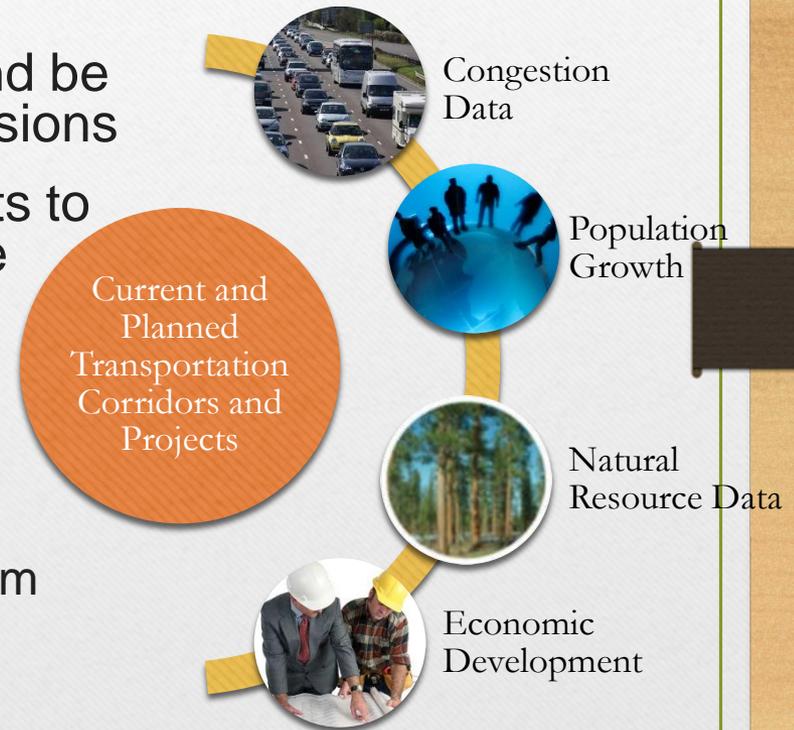


**Develop Report with Risk Register**



# 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



# Timeline

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## 2013:

- October 24: Announcement of FHWA SHRP2 award

## 2014:

- February: Funds obligated; contract with DOT has been 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)

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## 2014 (continued):

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

# Timeline

(continued)

Webinars Highlighted GIS Tools in Region, presented by:

- October 31: ADOT and UDOT
- November 21: Spokane RTC and Western Governors' Association (WGA)
- December 12: DRCOG & MAG
- January 9: Pikes Peak Area and Western Regional Partnership
- January 29: MRCOG



# GIS Follow up Interviews

- Questions centered on best methods to share data and input on data collaboration
- 15 agencies submitted answers to GIS surveys; GIS follow up interviews
- Positive responses on the GIS webinars and the project in general
- Eight questions asked (details on next slides)



## Question #1: “Do you have any concerns with sharing information?”

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Answers:

- 2 – Most data would need a data sharing agreement
- 12 – In general, no concerns with sharing data

Recommendations/Comments:

- 4- Be efficient about this so that it can be done with minimal amount of staff time; limited staff resources
- The data should have a date and be referenced (linked back to the data source) in case there are questions.
- Refresh the data that someone does not end up with stale or even incorrect data.
- Perhaps good first step would be to create a metadata catalogue with “pointers” to the data’s real location

**Question #2: “Do you have any concerns with posting your data to a FTP website? Would this need to be password protected?”**

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Answers:

- 8 – Password protected not necessary
- 3 – Prefer MAG to download data from their website
- 2 – Password protected is necessary/preferred (data sharing agreement)
- 1- Recommend a metadata catalogue first



**Question #3: “For the data you can share with MAG, may it also be shared with others (as either view only or download)? May this data continue to be shared with MAG after this federal grant is completed?”**

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Answers:

- 10 – Data can be shared with others during and after the grant ends
- 3 - MAG could share the data after the grant is over. If the data was for sharing (no download) the data could be displayed for others. Anyone wanting to download data would need to complete a data sharing agreement.
- 1 – Much data can be shared; recommend data catalogue to begin

Recommendations/Comments:

- It would be helpful to know operating rules; how often data is to be refreshed; the process to refresh data; data gatekeeper

**Question #4: “If you required a data sharing agreement, what are next steps to secure such an agreement? Does MAG need to sign documentation? And if so, do others also need to sign a document for them to see the data too? What are the restrictions for MAG to show or share data?”**

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Answers:

- 7-N/A; data is publically available
- 3-MAG and others would need to sign the agreement (if desire to download data)
- 3-Data sharing agreement needed for certain data only
- 1-Most data is publically available; would prefer to have data sharing agreement to highlight value of effort to upper management



## Question #5: *“Are there tools/functions that you would like to see in a common data operating platform for this project?”*

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Answers:

- 3-Regional GIS viewer
- 3-Search/query features (category, geography, keywords, etc.)
- 3-ArcGIS on-line
- Use Open matrix
- 1-On-line web mapping application
- 1 - Data download capacity
- 1-contact information for data
- 1-Common release form
- 1-Network of all roads
- 1-Forum for Q and A
- 1-Track demographic data over time (estimates, forecasts)
- 1 - Visualize and compare data in a geographic region
- 1-Highlight methods for better data sharing/collaboration
- 1-Ability to develop data charts
- Data Commonality:
  - 1-Common schema
  - 1 - Coordinate data updates so that similar data is being updated at the same time; use same lat/long/decimal degree.
  - 1- Data uniform/consistent
  - 1-Standardized data documentation, including data dictionary, scope and source

# Question #6: *“Are there tools/websites/data analysis that you would like to have highlighted on a webinar?”*

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## Answers:

- 7-Demo other agencies' efforts:
  - 2-Successful examples of GIS products
  - 1 – Highlight lessons learned/best practices/efforts that can be transferrable
  - 1 – Linear referencing
  - 1 – How other entities are incorporating spatial and non-spatial data and make that work
  - 1 – RTC will be ready after mid-March
  - 1 – Open model Data
- 2-Data sharing next steps
- 5-N/A

## Recommendations/Comments:

- 6 - It has been helpful to learn from others; impressive functionality
- Lots of parties involved and good sharing; big effort to get everyone involved and sharing information
- Helpful to learn of commonalities and opportunities to work together
- Provide summary information about posted webinars
- Develop a Best Practices Website (interactive best-practices, troubleshooting); Common Region dataset

## Question #7: *“Who are we missing on this effort?”*



### Answers:

- 4-N/A; would be helpful to look at current list
- DOTs:
  - 3-CDOT
  - 2-WSDOT
  - 1-UDOT
- 2-AGRC
- Other contacts to follow up with/leveraging opportunities:
  - 1-Colorado Information Marketplace
  - 1-Open Colorado
  - 1-NCR Homeland Security Group
  - 1-CLTRP-Western Regional Lands
  - 1 – RGIS program
- Depending on data needs
  - 1-UT Dept of Workforce Services
  - 2-Key Local authorities
  - 2-State CIOs

Please review SHRP2 Contact excel sheet for other key missing agencies

# Question #8: “Are there any related data that you would like to consume that you currently do not have (looking for missing authoritative data layers)?”

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Answers:

- 4-Environmental (air/water quality, wildlife corridors, fire risk, flood plains) data
- 2-Traffic data (travel time and travel speed; historical)
- 2-Utility data
- 2-Parcel data from political jurisdictions
- More user friendly data:
  - 3-Census data
  - 2-Improved state household/employment data
- National Data Sets:
  - 1-BLM PLSS and land ownership data
  - 1 - NSDI
  - 1-Natural constraints data (BLM and NPS)
  - 1-Authoritative data layer of federal roads
- 1-Freight data
- 1-LiDAR data

# In Sum



- In general not many concerns with sharing information
  - Requirement for a data agreement → Data is publically accessible
  - Some data is available via WMS
  - Most data would be shared via FTP site
- Variation of data needs and recommendations for the project's operating platform
  - No need for data; data rich → Data needs
- Commonalities:
  - Limited staff resources/Need for efficiencies
  - Need for data to be refreshed/maintained
  - Webinars have been helpful to have better understand of region's tools and functionalities; also nice to know others are experiencing same "pain"
  - Need for data commonality
  - Helpful to share information to learn from others; transferable efforts; perhaps better purchasing power could be gained

# Prioritizing data needs for this project: HIGH Priority

## 1.) **TAZ level data for current and future population and employment**

- Total Population and Employment (Details if available)
  - *For developing spatial distributions and patterns of future growth*
- Employment details by NAICS if possible
  - *To analyze current and future employment distributions*
- Population characteristics : Income and education levels, special populations

## 2.) **Current employment inventory:** Detailed employment inventory used in developing the base employment dataset by TAZ

- *Essential for conducting current employment analysis*

## 3.) **Current land use** by parcel or other polygon geography

- *For current housing and employment land use patterns. Also open space, sensitive lands and barriers to growth will be used to demonstrate spatial distribution of future growth*

## 4.) **Future land use** (based on adopted land use policy and development plans)

- *For analyzing future development patterns*

## 5.) **Transportation network with classification of system.** Travel model results with volumes at this stage not needed





# Upcoming



- **March 5-6 2015:** Intermountain West MPO/TMA/Transit Meeting
  - Meeting input request for this project: identify 3-4 corridors for this project (for risk register; expedite planning and environmental review)
- Request by **end of March 2015:** Upload data for this project; Separate follow up will occur to address data sharing agreements as applicable and if certain data is available via website
- **May 2015:** MAG, with input, to develop Red Dots map
- **August 2015:** MAG to demo the project's viewer/wma and functionality; get input at an in-person meeting with GIS/technical staff members (this group)
  - Location: TBD
- Hold webinars **as needed**; every two months. Provide project updates/share information
- **January 2016:** Close out meeting of this project with GIS/technical staff members and Directors
  - Location: Phoenix

# Request/Need Your Input

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1. Seeking input to identify 3-4 corridors for this project (for risk register; expedite planning and environmental review)
2. Request by end of March 2015: Upload data for this project; Separate follow up will occur to address data sharing agreements as applicable and if certain data is available via website
3. Please review SHRP2 Contact excel sheet for other key missing agencies
4. Provide your location preferences and calendar input for in person meeting in August 2015

# Questions

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