

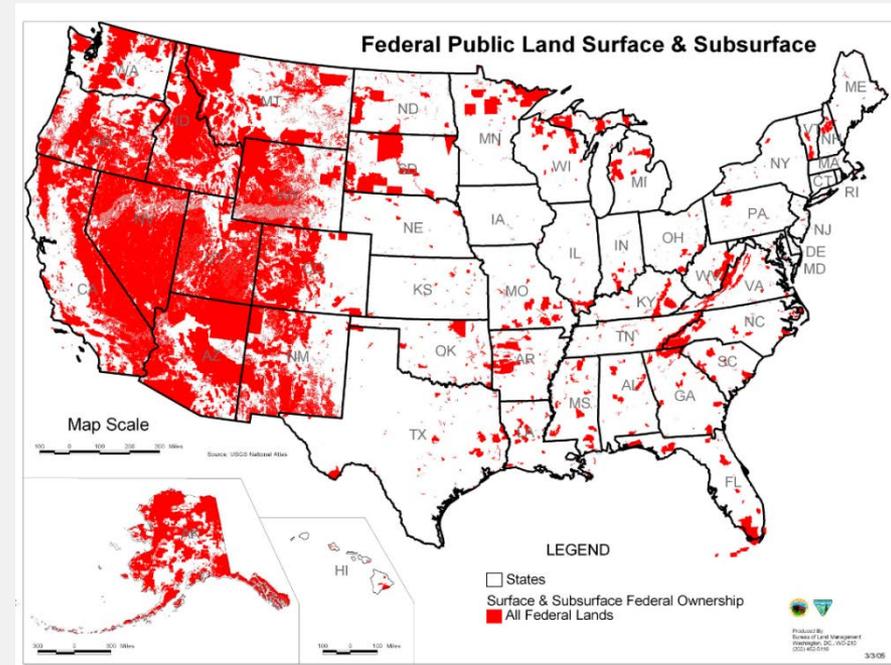


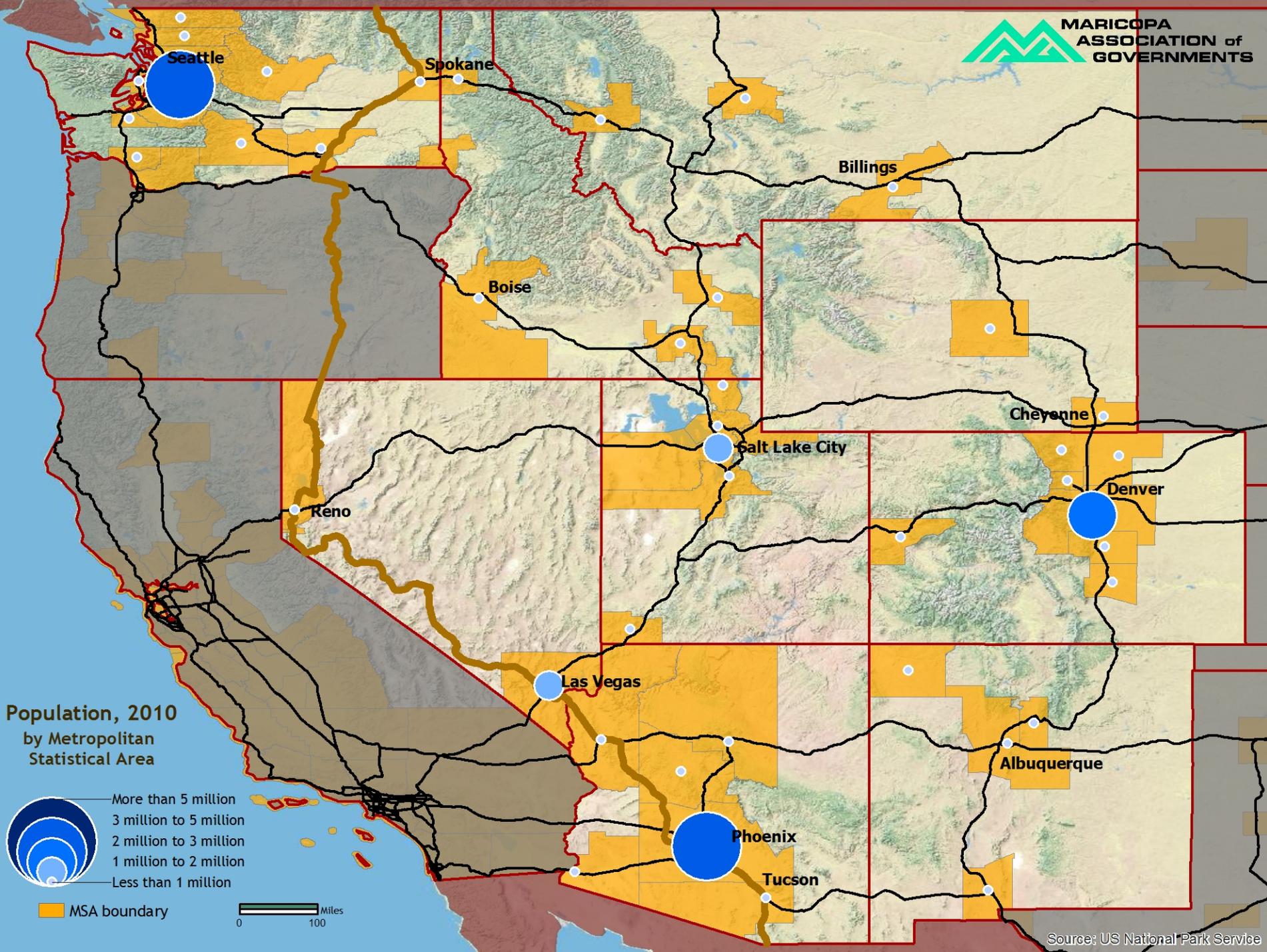
Expediting Planning and Environmental Review of Key Global Transportation Projects in the Intermountain West Region

Overview of FWHA SHRP2 Grant
and Efforts to Date

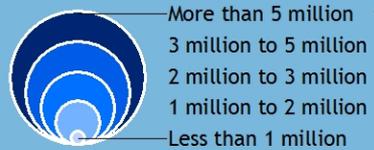
Intermountain West Region

- 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





Population, 2010
by Metropolitan
Statistical Area

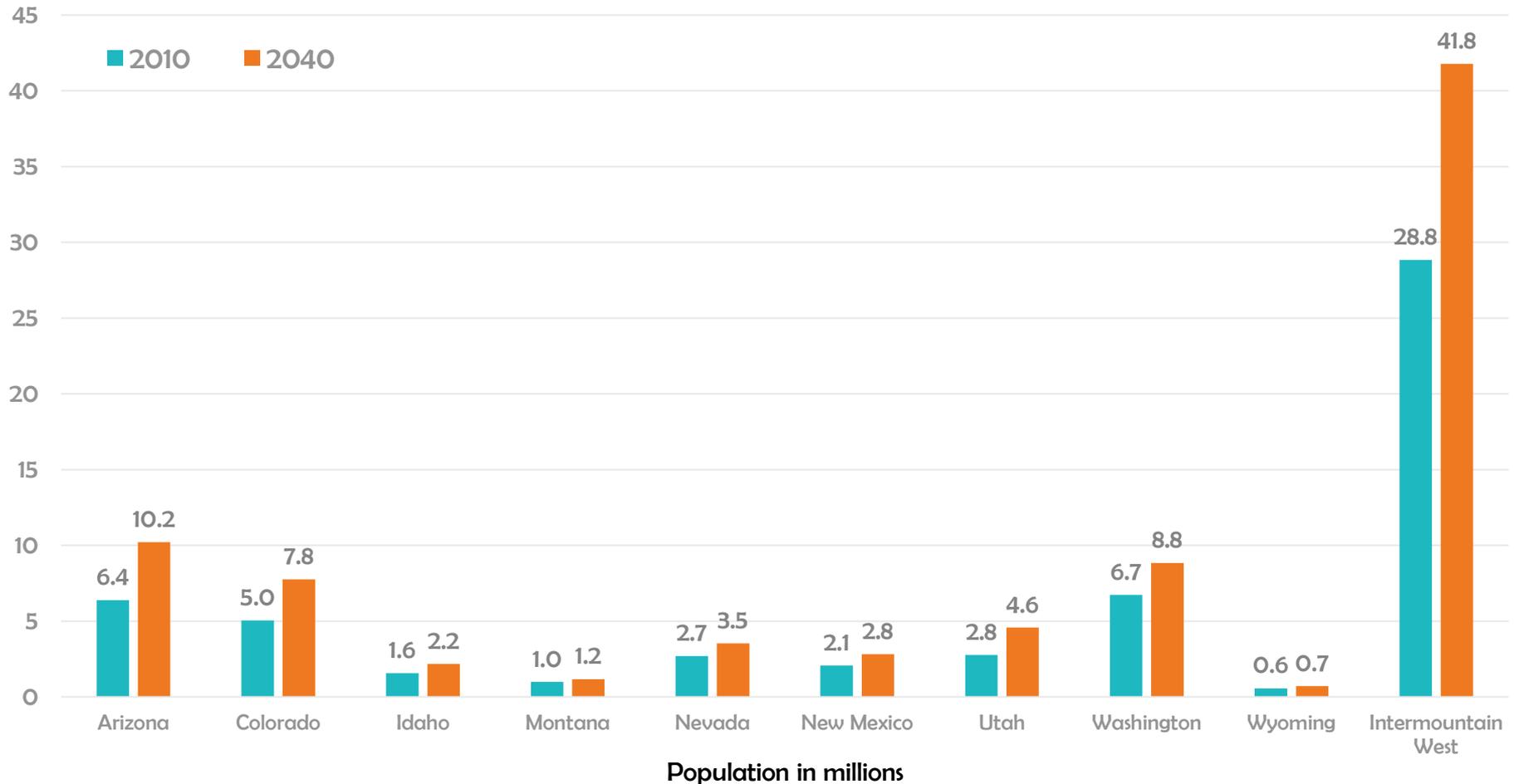


MSA boundary



2040: +13 million population (45% growth)

Intermountain West States: Projected Population Growth - 2010 to 2040



WSDOT
SRTC
Spokane

COMPASS
Boise

WFRC
Salt Lake City

MAG
Provo

NFRMPO
Fort Collins

DRCOG
Denver

NVDOT

UDOT

PPACG
Colorado Springs

RTCSN
Las Vegas

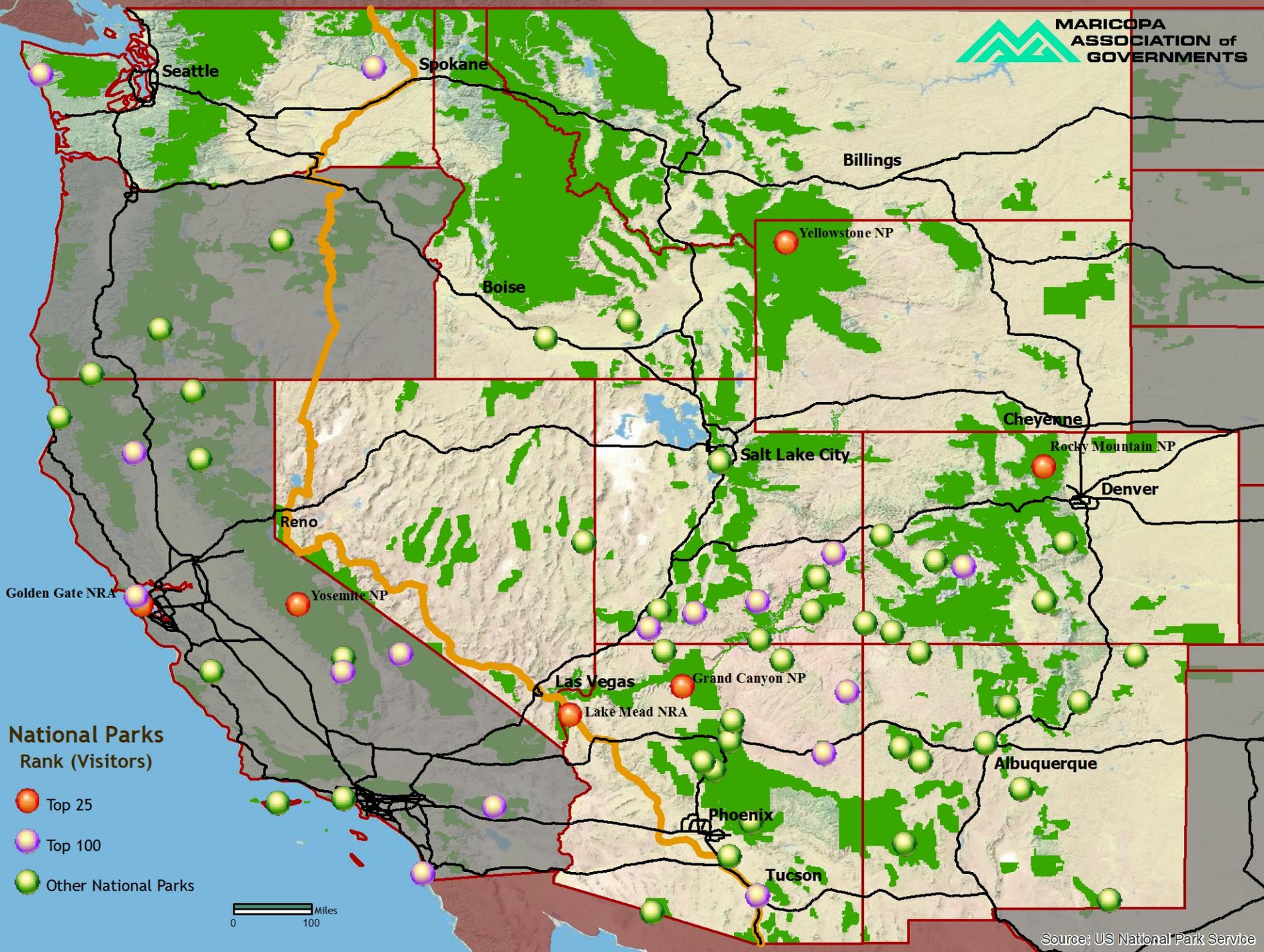
MRCOG
Albuquerque

ADOT

MAG
Phoenix

PAG
Tucson

0 100 Miles



National Parks Rank (Visitors)

- Top 25
- Top 100
- Other National Parks

0 100 Miles

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

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

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

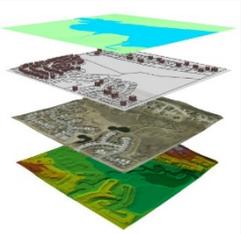


Project Goals

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**



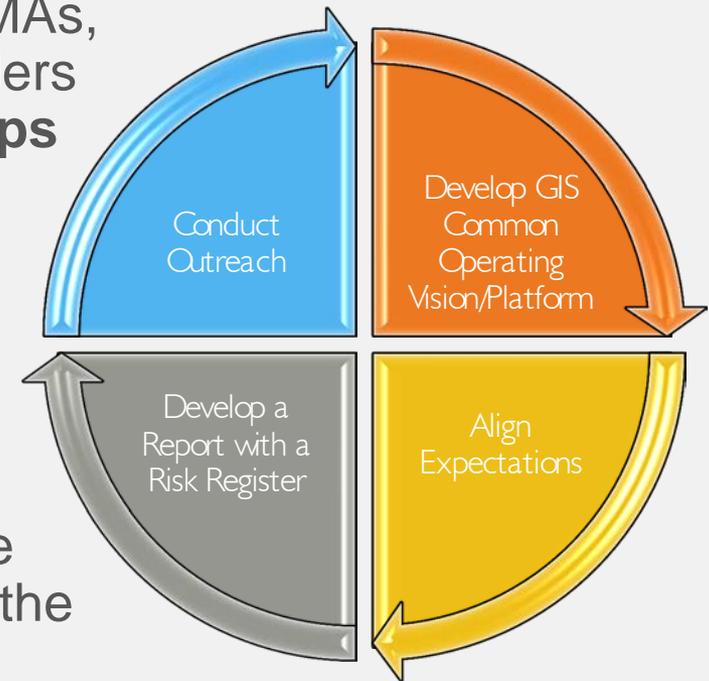
- **Develop GIS Common Operating Vision/Platform** for easier data information sharing



- **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)

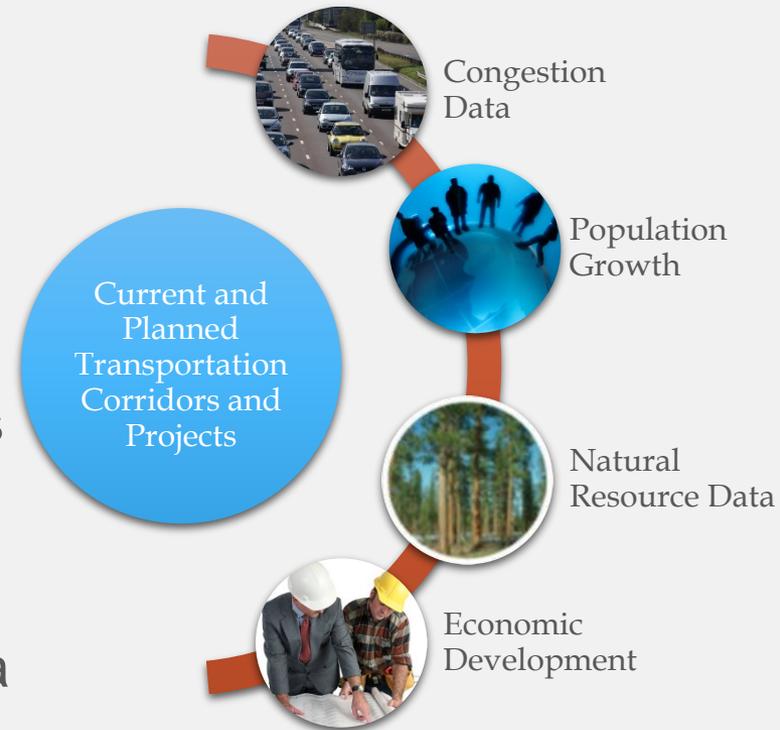
- Provides awareness of threats and opportunities associated with achieving transportation elements
 - Examples: Construction risks (unidentified utility impacts; unexpected archeological findings, etc.), Design, Environmental, External (project not fully funded), Organizational, and right of way risks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

Risk Identification (Taken from FHWA P3 Toolkit)

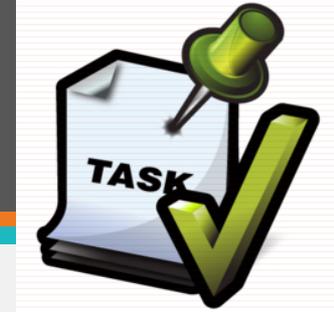
Risk Number	Risk Category	Impact Phase	Risk type	Description	Consequence of Risk
1	Environmental	Construction	Threat	The project is in marshy ground that is prone to flooding and there have not been many boreholes. Later investigations may uncover worse ground than that assumed in preliminary engineering.	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.

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 conflictions, data standards and gaps
 - Develop best methods for sharing data



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

- **Developed project timeline**

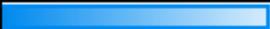
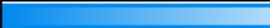
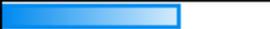
- **GIS-Data Related:**

- 9 Webinars to highlight data tools:
 - ADOT, UDOT, DRCOG, MAG, MRCOG, Pikes Peak Area, Spokane RTC, Western Regional Partnership and Western Governors' Association (WGA) presentation on Crucial Habitat Assessment Tool (CHAT)
- GIS Survey circulated and consolidated; review of analytics; assessment of available data in region; follow up interviews for data gathering

Webinars Highlighted GIS Tools in Region

- 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



Survey Responses	Available		Sharable		Data Source			
	Yes	No	Yes	No	MPO/Member Agency	State	Multiple	Other
Section Two: Data Related Questions								
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
Section Three: Projections								
a. Population	11		11		 7		 4	
b. Housing	11		11		 8		 3	
c. Employment	11		11		 9		 2	
Section Four: Transportation								
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.

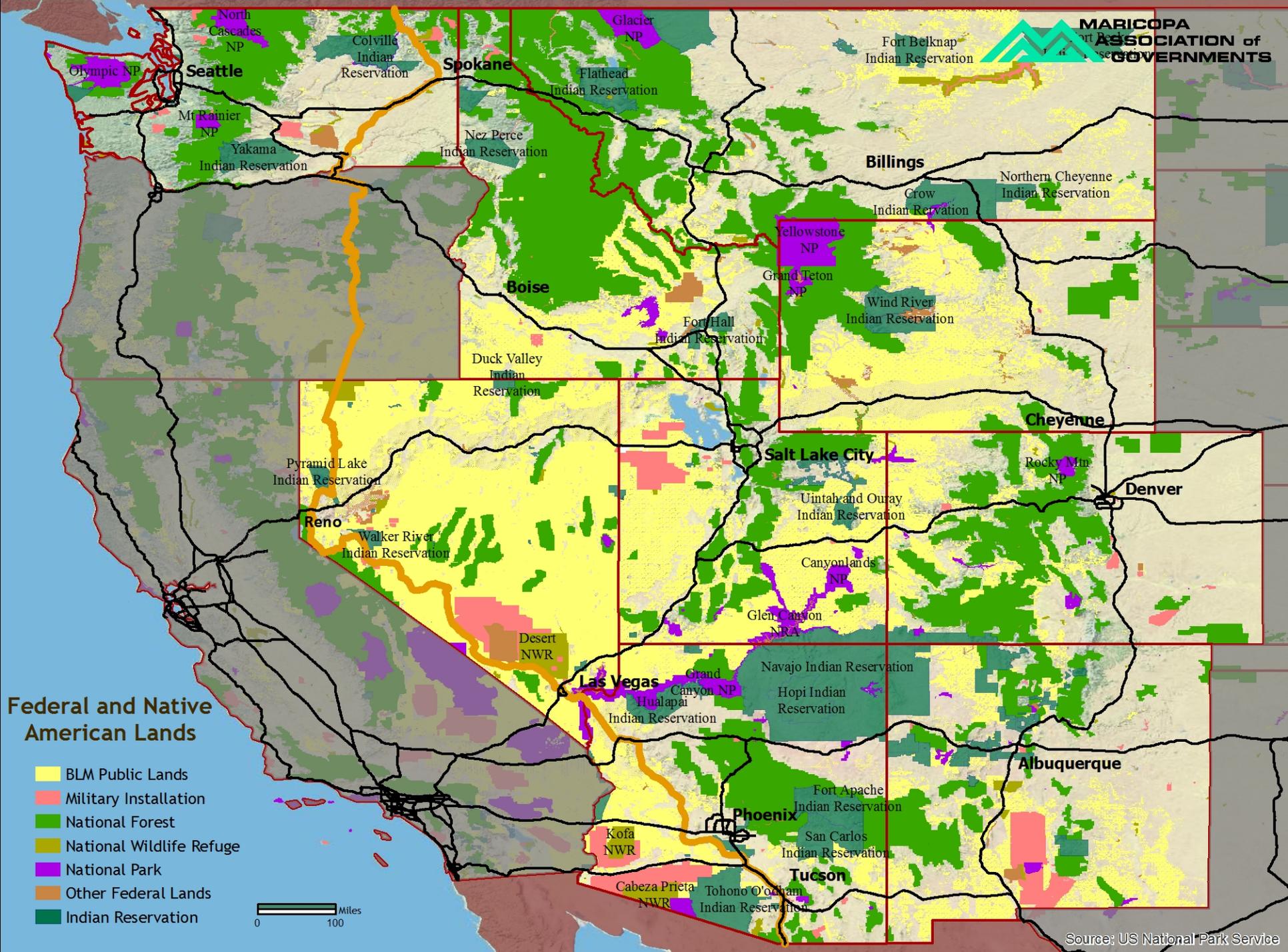
Highlights of GIS Follow up Interviews

- 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:
 - 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



Request/Need Your Input

- 1. Today:** Seeking input to identify significant corridors (existing or future) that would strategically link east-west and north-south, connect to major metropolitan areas, freight corridors or are a major transportation/economic development corridor
 - To incorporate into risk register to assist to expedite planning/environmental review
 - Regional Connectivity
- 2. Request by March 16, 2015:** Your agencies' data to be uploaded for this project; Separate follow up will occur to address data sharing agreements as applicable and if certain data is available via website
- 3. August 2015:** MAG to demo the project's viewer/wma and functionality; get input at an in-person meeting with GIS/technical staff members. Location: TBD
- 4. January 2016:** Close out meeting of this project with GIS/technical staff members and Directors. Location: Phoenix



Federal and Native American Lands

- BLM Public Lands
- Military Installation
- National Forest
- National Wildlife Refuge
- National Park
- Other Federal Lands
- Indian Reservation



Thank you!

