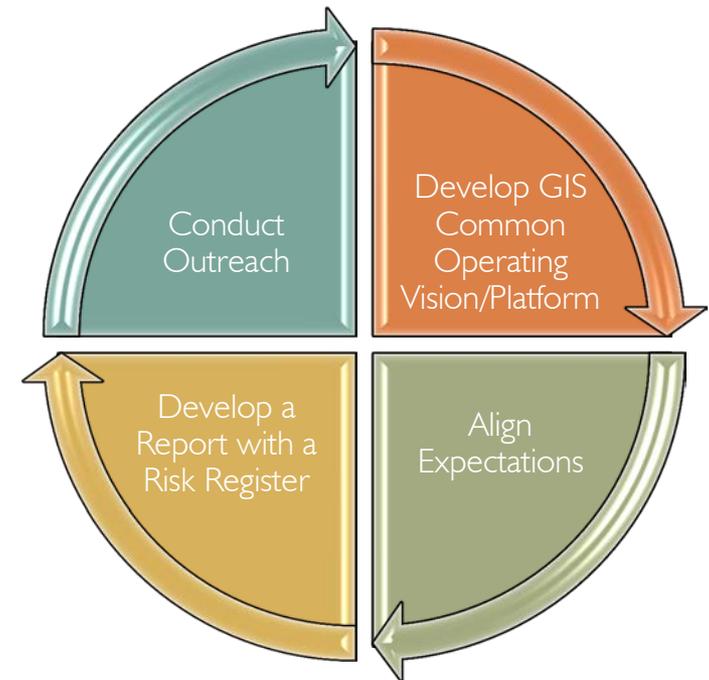


# SHRP2 (C19) Implementation Plan

August 28, 2015

# Main Project Goals:

- Conduct Outreach
- Align Expectations
- Develop GIS Common Operating Vision/Platform
- Develop Report and Risk Register and Conduct Public Engagement



# Outreach (ongoing)

- Communications Network set up with:
  - GIS/Technical
  - Transportation
  - Policy contacts
- In the states of AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA & WY
- As the GIS SHRP2 Tool is developed, need your input on other key contacts to include in this effort:
  - Regional Intertribal Organizations, BLM, FHWA, NPS, DoD, BIA, US FWS and other relevant federal, Tribal, State and local agencies and non-profits and universities



# Aligning Expectations



- Tiered approach

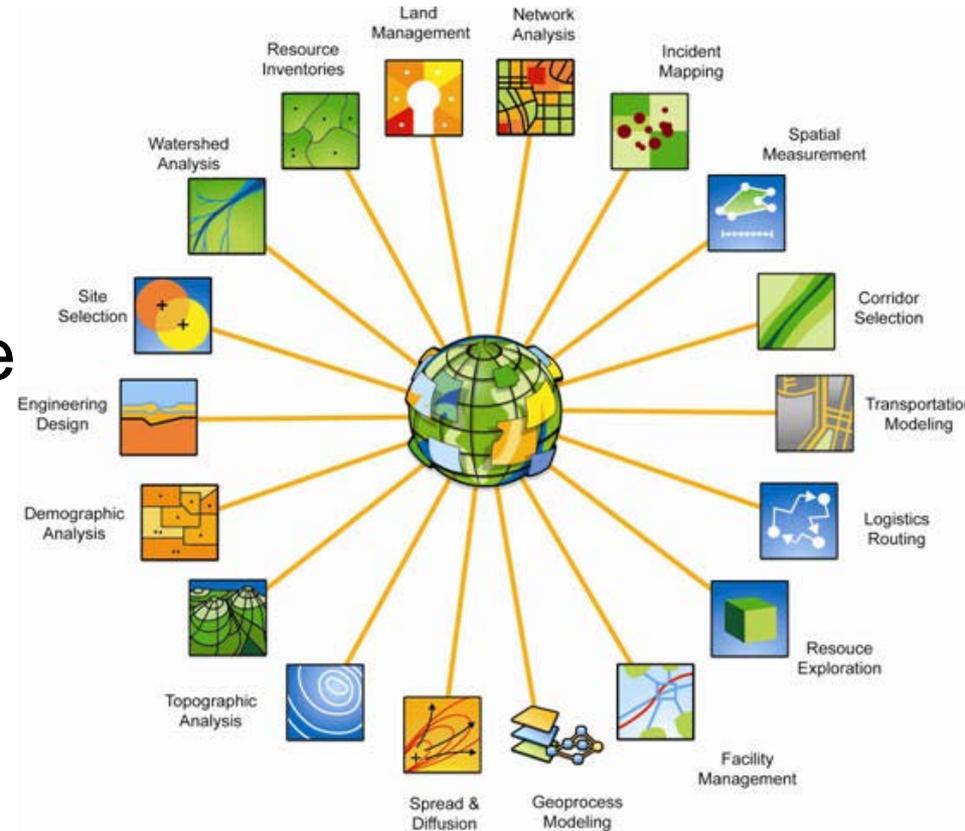
- Current: working with GIS/technical experts to develop GIS Common Operating Vision/Platform
- Upcoming: highlight GIS efforts to transportation and policy makers to get their input (the users)

## To more fully address critical infrastructure needs

- Need to work across political boundaries; collaborate and leverage efforts
- Identify: stakeholder expectations, issue priorities, areas of commonality, potential areas of conflict, and methods of reducing or resolving areas of conflict

# GIS Common Operating Vision/Platform

- With your input, we have made steady progress!
  - Assessed relevant available data in the region
  - Identified data gaps
- Need your input today:
  - Common GIS vision/platform
  - Collaboration on data conflicts, data standards and additional gaps
  - Best approaches to analyze data; how to assess “risk”



Goal: Provide decision makers with better situational awareness of the region and be able to make more fully informed decisions



# Report with Risk Register (from SOW):

- Intermountain Transportation **vision** that will focus on moving people and freight efficiently
- **Constraints and Opportunities** (e.g. natural and cultural resources, work force, etc.)
- Stakeholder **expectations**, issue priorities, areas of commonality, potential areas of conflict, and methods of reducing or resolving areas of conflict
- **GIS data layers** that identify transportation focus and potential areas of conflict and provide useful analytic tools (e.g. red dot map of status and trends). Will establish methods and processes for maintenance and conflation of datasets to a common platform
- Public **engagement and communication best practices** and lessons learned from this effort

# Risk Register

- Developed with stakeholders; expedite planning and environmental review of key transportation projects
- It is anticipated that it will:
  - Include list of constraints and opportunities to resolve to effectively coordinate delivery of infrastructure that supports the overall regional vision
  - Identify international, national, regional, state-level, and local goals and objectives, current trends, assets needed to bridge gaps, risks associated with delivering those assets, and common mitigation strategies that could be used to optimize project delivery schedules
  - Draw from industry best practices



Proof of concept for the Risk Register is: ~450 miles (international border crossing at Nogales to Las Vegas (via Phoenix))

# Identify & Analyze the Risks

- Risk: *the effect of uncertainty on objectives*
- Generate a comprehensive list of risks based on those events that might:
  - Create
  - Enhance
  - Prevent
  - Degrade
  - Accelerate or delay the objective
- Should include risks whether or not their source is under the control of the organization
- Should include secondary and cumulative effects
- Identify what is the likelihood that this event will occur? (e.g. high, medium, low)



# Risk Register: examples of risk events

<b>Construction Risks</b> <ul style="list-style-type: none"><li>• Unidentified utility impacts</li><li>• Unexpected archeological findings</li><li>• Changes during construction not in contract</li></ul>	<b>Design Risks</b> <ul style="list-style-type: none"><li>• Insufficient design analysis</li><li>• Surveys incomplete</li><li>• Inaccurate assumptions during the design phase</li></ul>
<b>Environmental Risks</b> <ul style="list-style-type: none"><li>• Unanticipated noise impacts</li><li>• Unforeseen air quality issues</li></ul>	<b>External Risks</b> <ul style="list-style-type: none"><li>• Project not fully funded</li><li>• Permit agency actions cause unexpected delays</li></ul>
<b>Organizational Risks</b> <ul style="list-style-type: none"><li>• Lack of specialized staff</li><li>• Approval and decision processes cause delays</li></ul>	<b>Project management Risks</b> <ul style="list-style-type: none"><li>• Consultant and contractor delays</li><li>• Lack of coordination and communication</li></ul>
<b>Right of Way Risks</b> <ul style="list-style-type: none"><li>• Unanticipated escalation in ROW values</li><li>• Additional ROW may be needed</li></ul>	

# Prioritize and Capture the Risk and Response

- Identify “top risks”
- Which risks require a response? What actions will: mitigate, avoid, accept, transfer or enhance the risk?
- What actions are important to take now? Ongoing actions? Who has the action?
- Capture information; use as a communication tool; evaluate effectiveness of addressing risks



# Examples of Risk Registers/Risk Management



- CalTrans: Project Risk Management Handbook: A Scalable Approach
  - Risk register encouraged for a project less than \$1 million; required above \$1 million
- CDOT: Uses risk registers for asset management (which includes planning and some programming) and program (which includes delivery and development)
  - Project tool, NAVIGATE, a risk assessment and assigns a score based on project information that is put into the system  
<https://www.codot.gov/business/localagency/navigate-project-tracking-and-implementation-guidance-portal>
- ADOT: operates a loss prevention program which primarily addresses liability and property exposures (employee illness and injury are addressed by our safety professionals). Information is maintained/recorded in loss prevention database. Examples of list of trends and concerns: Overhead line “strikes”; Cattle guards; Wildlife collisions; Dust – visibility/collisions

# SHRP2 Project Schedule

(assuming no-cost extension occurs)



- **Communication activities – ongoing**
- **By January 2016**
  - Develop/enhance existing data sharing and analytics tools
- **By March 2016**
  - Develop GIS Common Operating Vision/Platform
    - Identify data gaps, preferred format for data to be maintained/shared, develop a standardized format and methods for data maintenance and develop custom analytics for risk register and identify pathway
  - Draft Report with Risk Register
- **By September 2016**
  - Final Report with Risk Register
  - Close out meeting



# Questions