EARTHQUAKE READY BURNSIDE BRIDGE

Policy Group Meeting

Department of Community Services
Transportation Division

August 23, 2017

Agenda

1. Welcome & Opening Remarks
2. Project Update
3. Screening Process
4. Screening Results
5. Alternatives Evaluation
6. Schedule Review
7. Public Comment
8. Closing Remarks

2. Project Update

Key Activities

2. Project Update

Stakeholder Outreach – Key Activities

- Committee Meetings
  - SRG #1, April 17, 2017
  - SASG #2, July 14, 2017
- Briefings
  - Kerns Neighborhood Assoc., March 15, 2017
  - MultCo Bike Ped Committee, April 12, 2017
  - Buckman Neighborhood Assoc., April 13, 2017
  - Port of Portland, July 6, 2017
  - USACE, July 11, 2017
  - NAYA, July 13, 2017
  - Mercy Corps, August 3, 2017
  - Senator Merkley Staff, August 11, 2017
  - U.S. Coast Guard, August 14, 2017
  - Burnside Skatepark, August 28, 2017
  - Regional Disaster & Preparedness Org., September 13, 2017
- Equity & Diversity Outreach
  - Bridgetown Night Strike, July 11, 2017
  - VOZ, July 21, 2017
  - Central City Concern, August 25
  - MultCo Disability Services Advisory Council, August 28, 2017

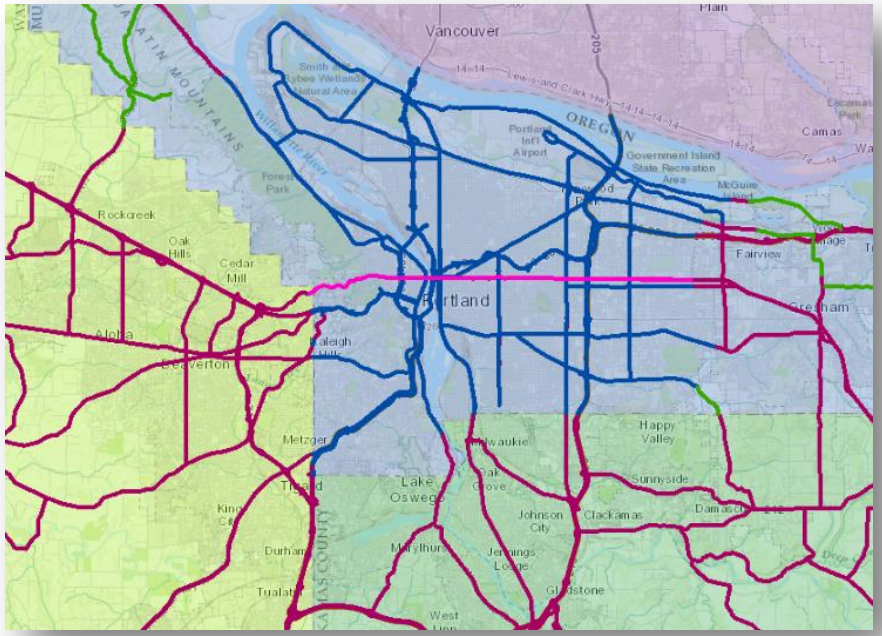
2. Project Update

Technical Community – Key Activities

- Emergency Management Roundtable, June 14th, 2017
- Seismic Resiliency Committee Meeting, June 20th, 2017
  - Seismic Design Criteria
  - Technical Design Guidance

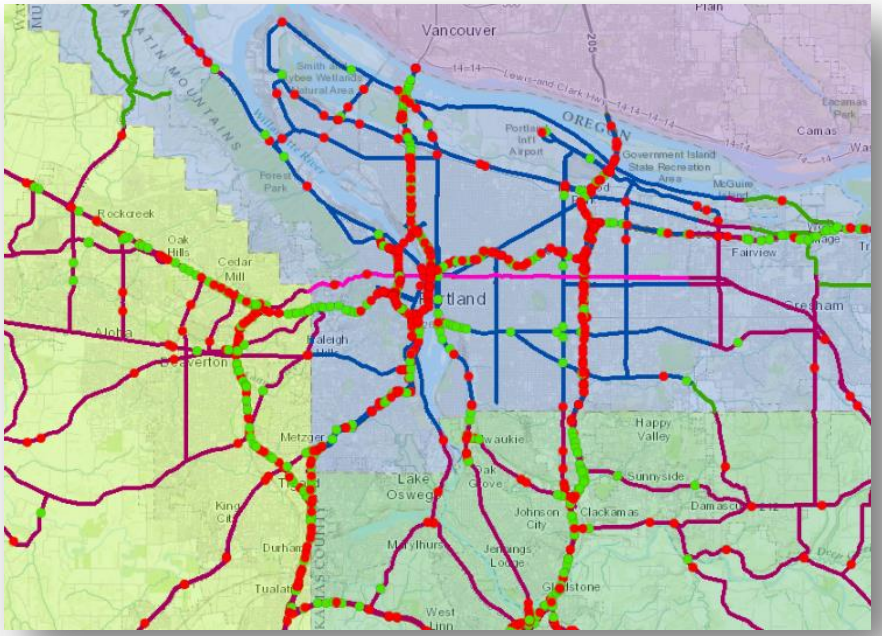
2. Project Update

Technical Community – Emergency Management Round Table



All Regional Emergency Transportation Routes (ETR's)

Last updated 2005



Bridges on ETR's colored by collapse potential

Significant to Moderate *(1994 and prior)*

Low to Very Low *(1995 to present)*

(Oregon Highways Seismic Plus Report, 2014)

Key Finding #1

- Assumptions have been made about the availability of transportation routes after a major earthquake

2. Project Update

Technical Community – Emergency Management Round Table

TRIMET

Metro

CLACKAMAS COUNTY

READINESS. RESPONSE. RECOVERY.
PBEM
PORTLAND BUREAU OF EMERGENCY MANAGEMENT

STATE OF OREGON 1859

Multnomah County
Emergency Management

Key Finding #2

- Agencies working towards the same goal
  - Transportation Recovery Plan (PBEM)
  - Debris Management Plan (Metro)
  - URM Seismic Retrofit Project (PBEM)

Key Finding #3

- Many opportunities to coordinate moving forward

2. Project Update

Technical Community – Seismic Resiliency Committee

Key Performance Criteria – For Example:

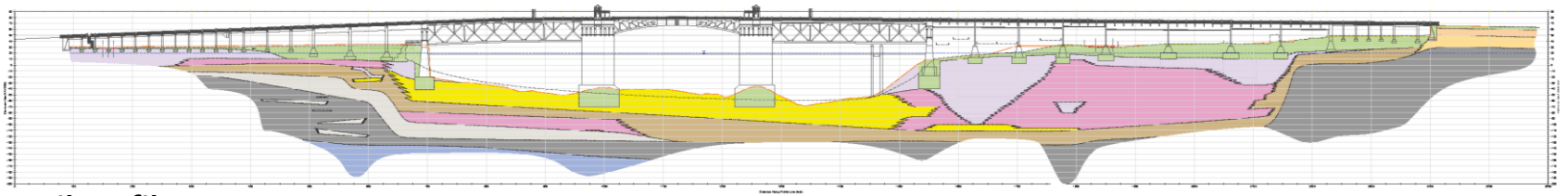
- What does the earthquake look like?
- When will the bridge be operable following an earthquake?
- What assumptions are being made about crossing design features (height, width, elevation, etc.)?
- What heavy haul or specialty vehicles will need to use the bridge?

2. Project Update

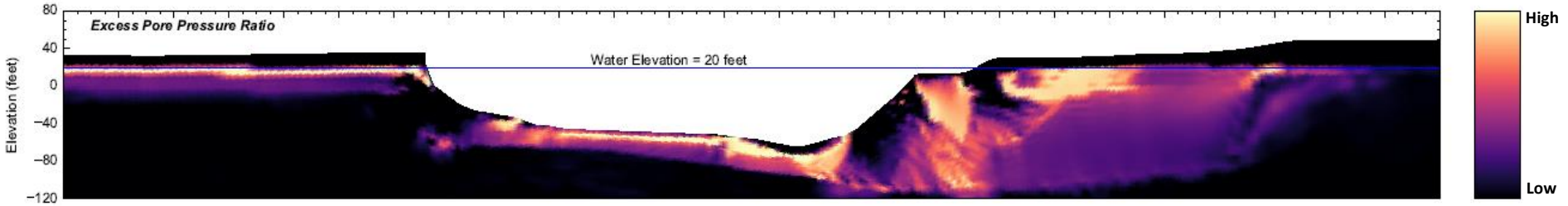
Technical Community – Seismic Resiliency Committee

- **Understanding the soils around the bridge**
  - What does the soil look like?
  - How bad are the soft soil effects?
  - How much would it cost to fix it?

West **East**



Soil Profile



Liquefaction Potential

2. Project Update

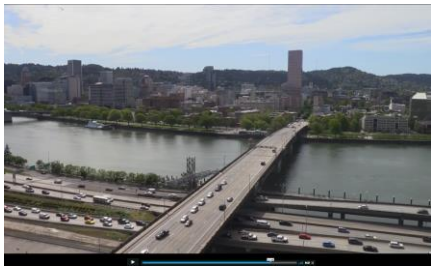
Key Activities

2. Project Update

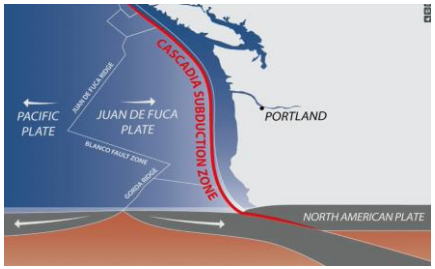
Key Activities – Public Outreach

Website/Videos

Project Overview -Teaser



Lifeline



Earthquake

Emergency Response

Simulation

2. Project Update

Key Activities – Public Outreach

Simulation Video

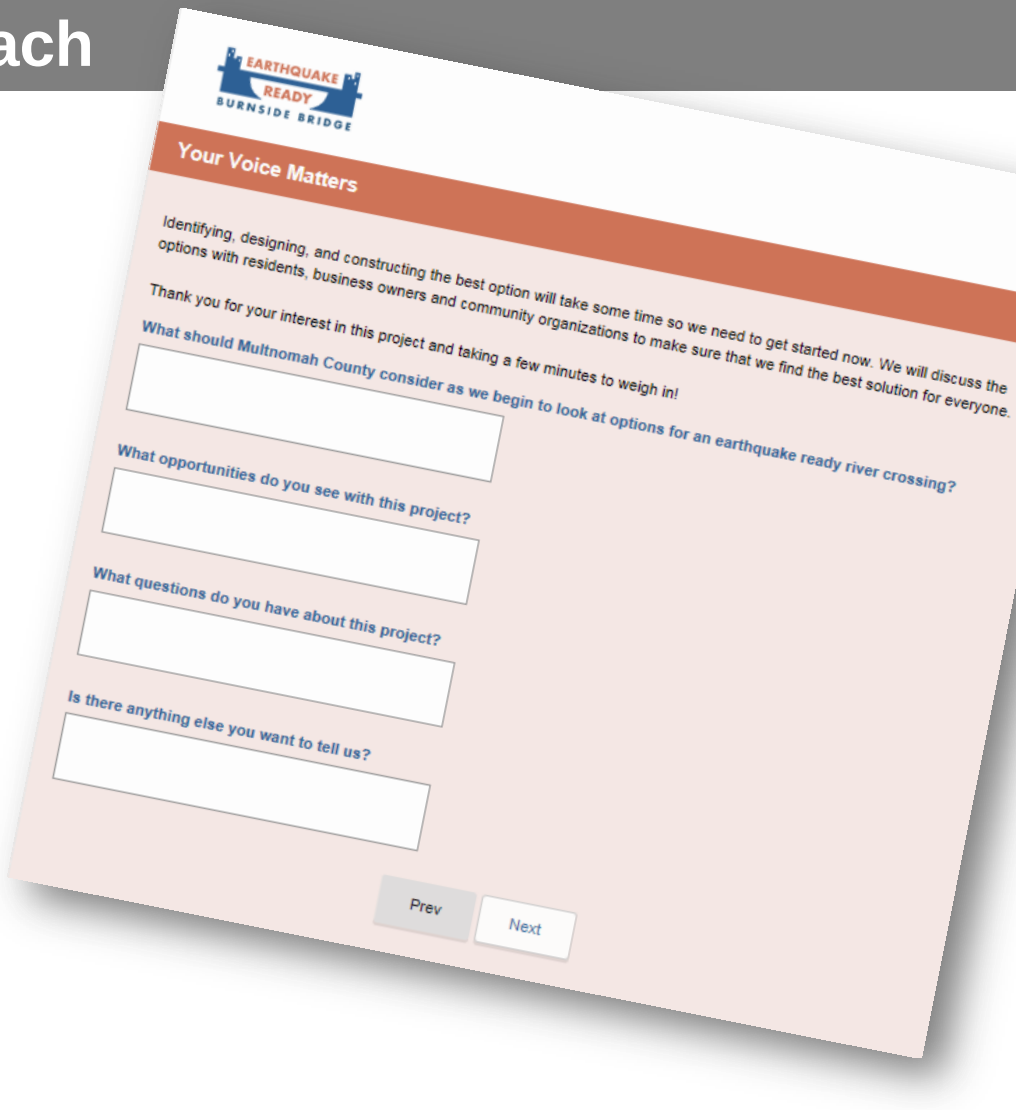
- 56, 374 views
- 35,000 from Oregon
- Highest number of views for any County video

2. Project Update

Key Activities – Public Outreach

Survey

- What should Multnomah County consider as we begin to look at options for an earthquake ready river crossing?
- What opportunities do you see with this project?
- What questions do you have about this project?
- Is there anything else you want to tell us?



2. Project Update

Key Activities – Public Outreach

Survey Results

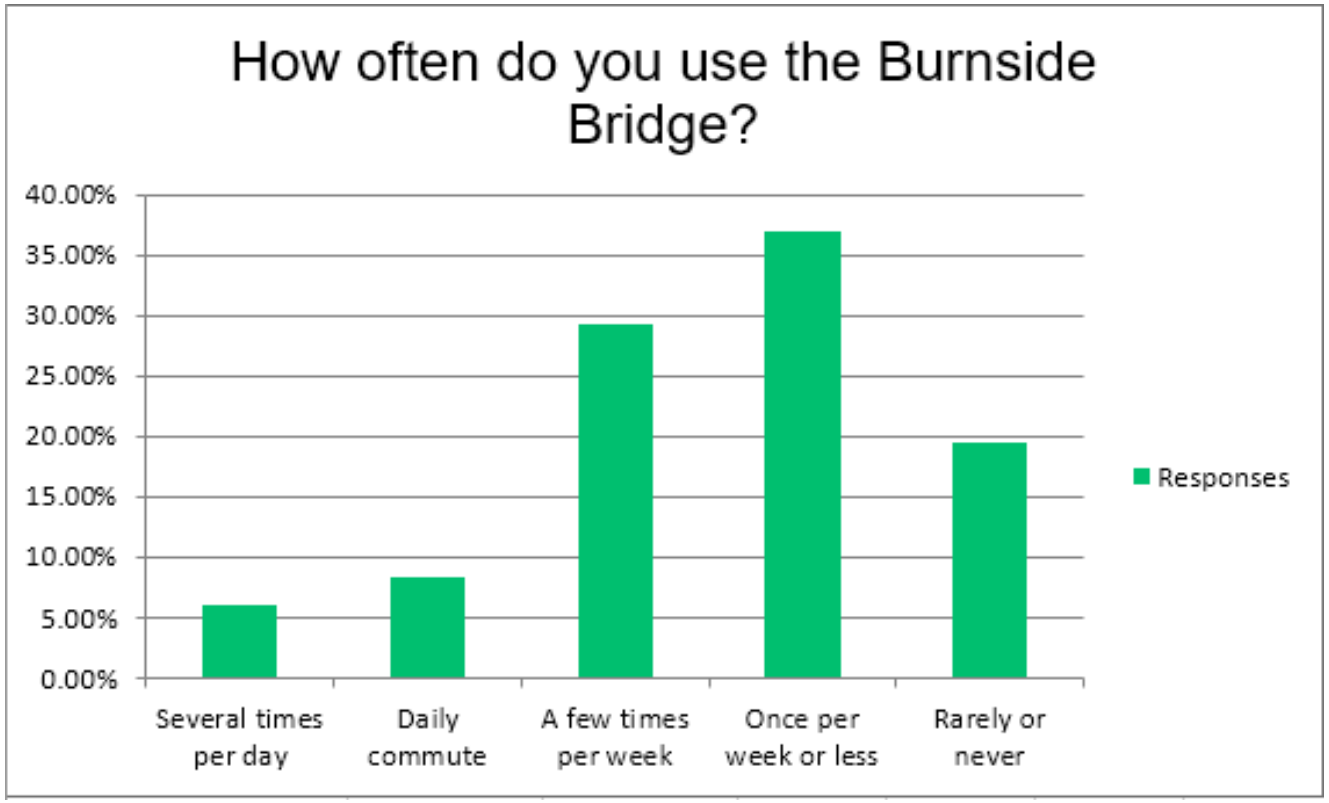
- 170 responses

What should Multnomah County consider as we begin to look at options for an earthquake ready river crossing?

2. Project Update

Key Activities – Public Outreach

Survey Results - Demographics



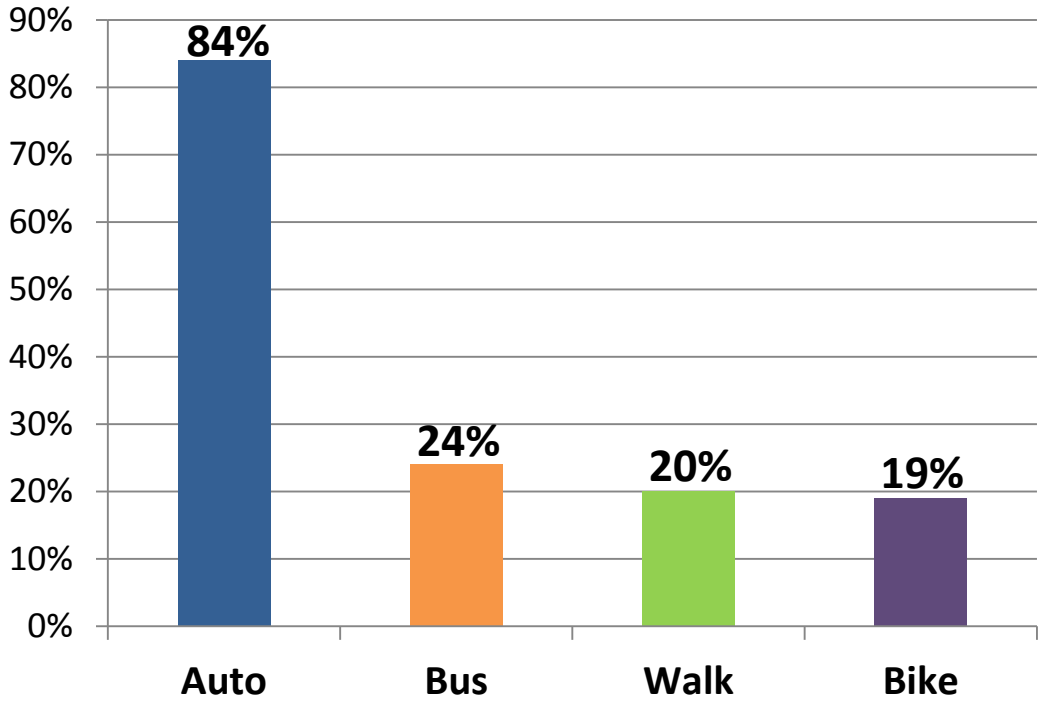
Frequency of use: "Once per week or less" was the most frequent response

2. Project Update

Key Activities – Public Outreach

Survey Results - Demographics

- How do you use the bridge?



2. Project Update

Key Activities – Public Outreach

Survey Results - Demographics

- **Stay Informed**

About ½ of all respondents signed up for project emails.

Many said they would follow us on social media.

2. Project Update

Key Activities – Public Outreach

Survey Results

Q1: What should Multnomah County consider as we begin to look at options for an earthquake ready river crossing?

- Safety
- Improve bridge operations
- Getting something in place quickly
- Enhance multi-modal use
- Reliability
- Several design suggestions

2. Project Update

Key Activities – Public Outreach

Survey Results

Q2: What opportunities do you see with this project?

- Raising general public awareness of earthquake threat
- Making multi-modal improvements
- Creating jobs

2. Project Update

Key Activities – Public Outreach

Survey Results

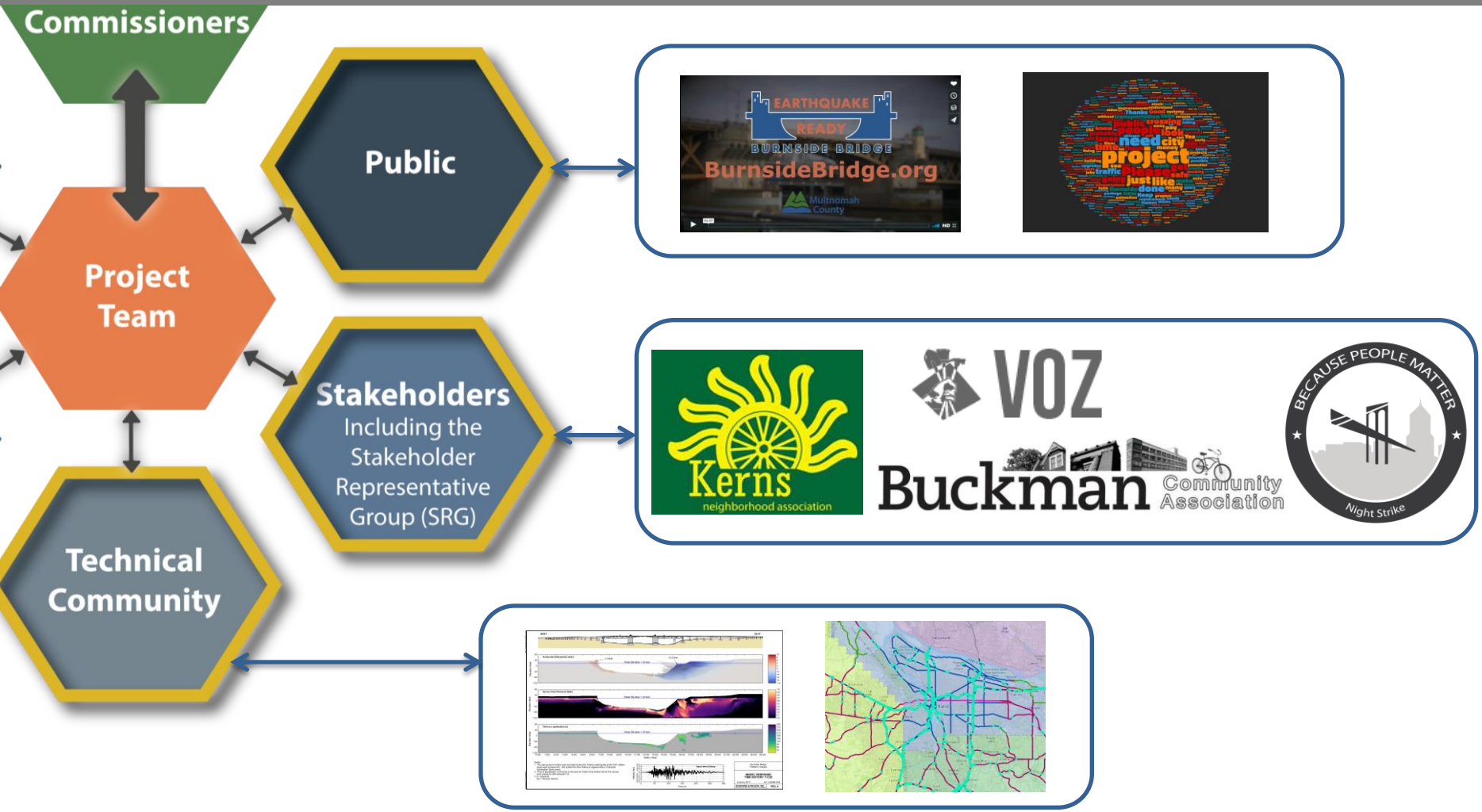
Q3: What questions do you have about this project?

- What option is the best approach to solving the problem?
- How much will it cost, and how is it paid for?
- What other emergency preparedness planning is underway?

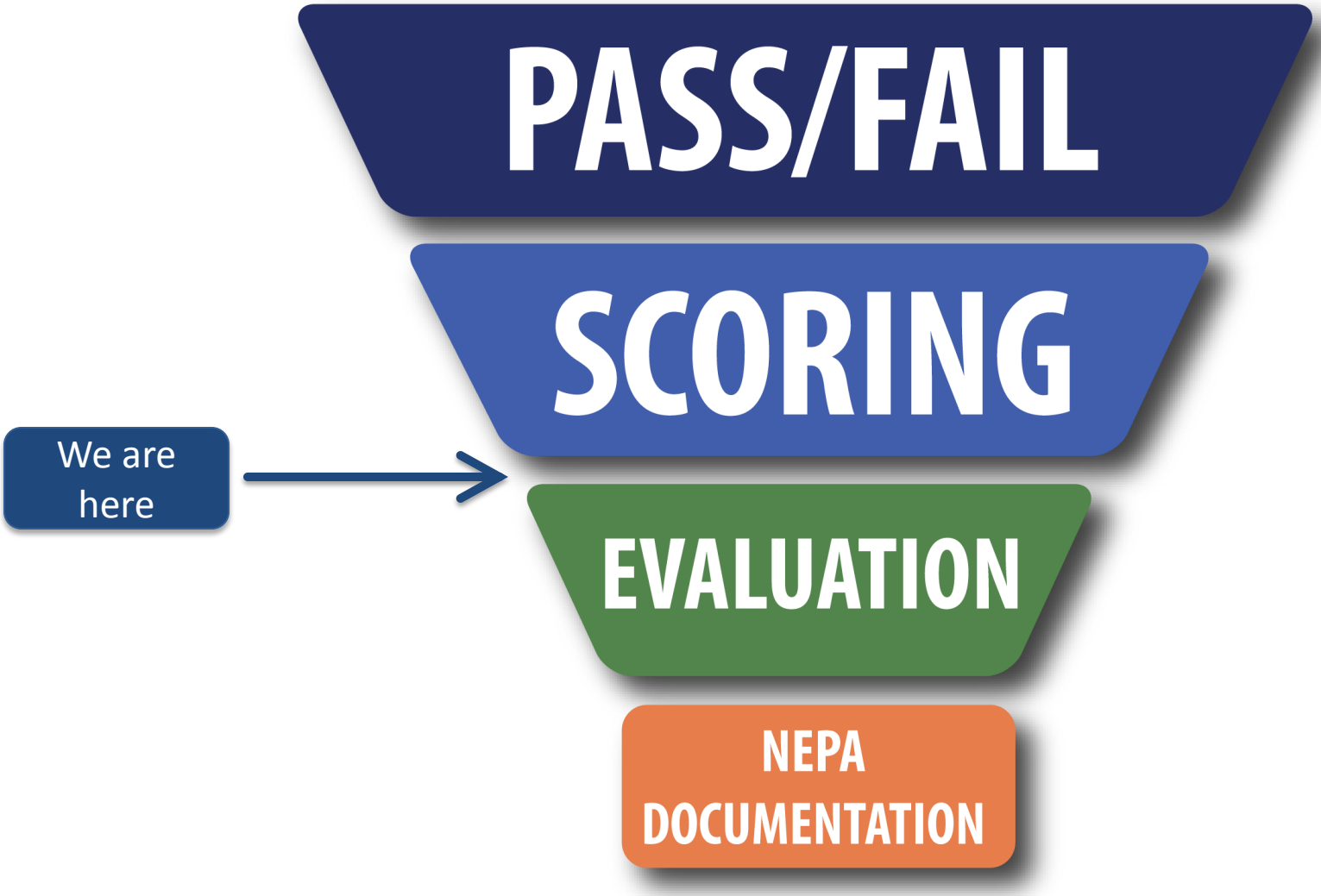
NOTE: Website and FAQs address many of the questions asked by respondents. We will use this input to expand our FAQs

2. Project Update

Discussion Break



3. Screening Process



3. Screening Process

Pass/Fail Criteria

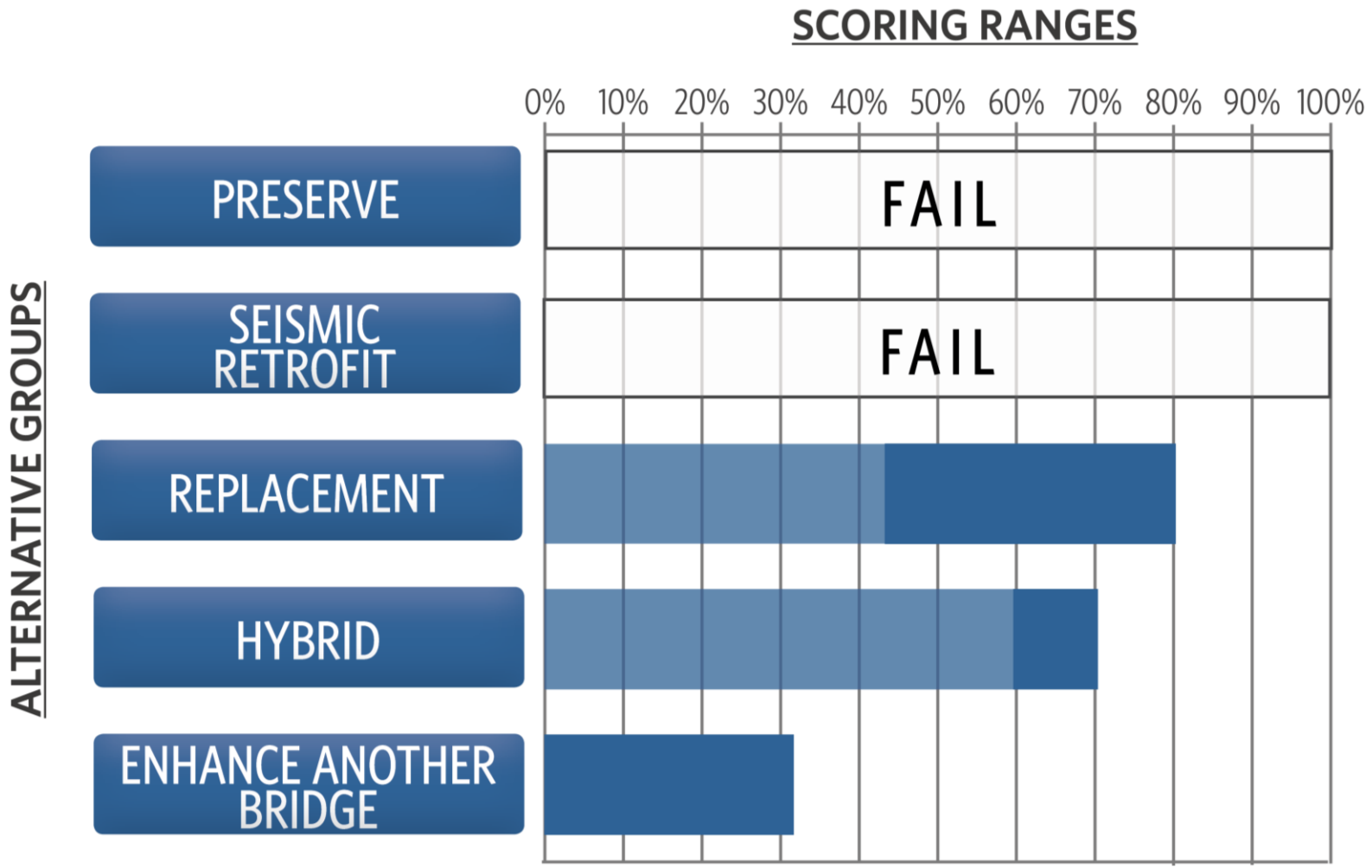
3. Screening Process

Scoring Criteria

Rating
1 = Poor
3 = Fair
5 = Good

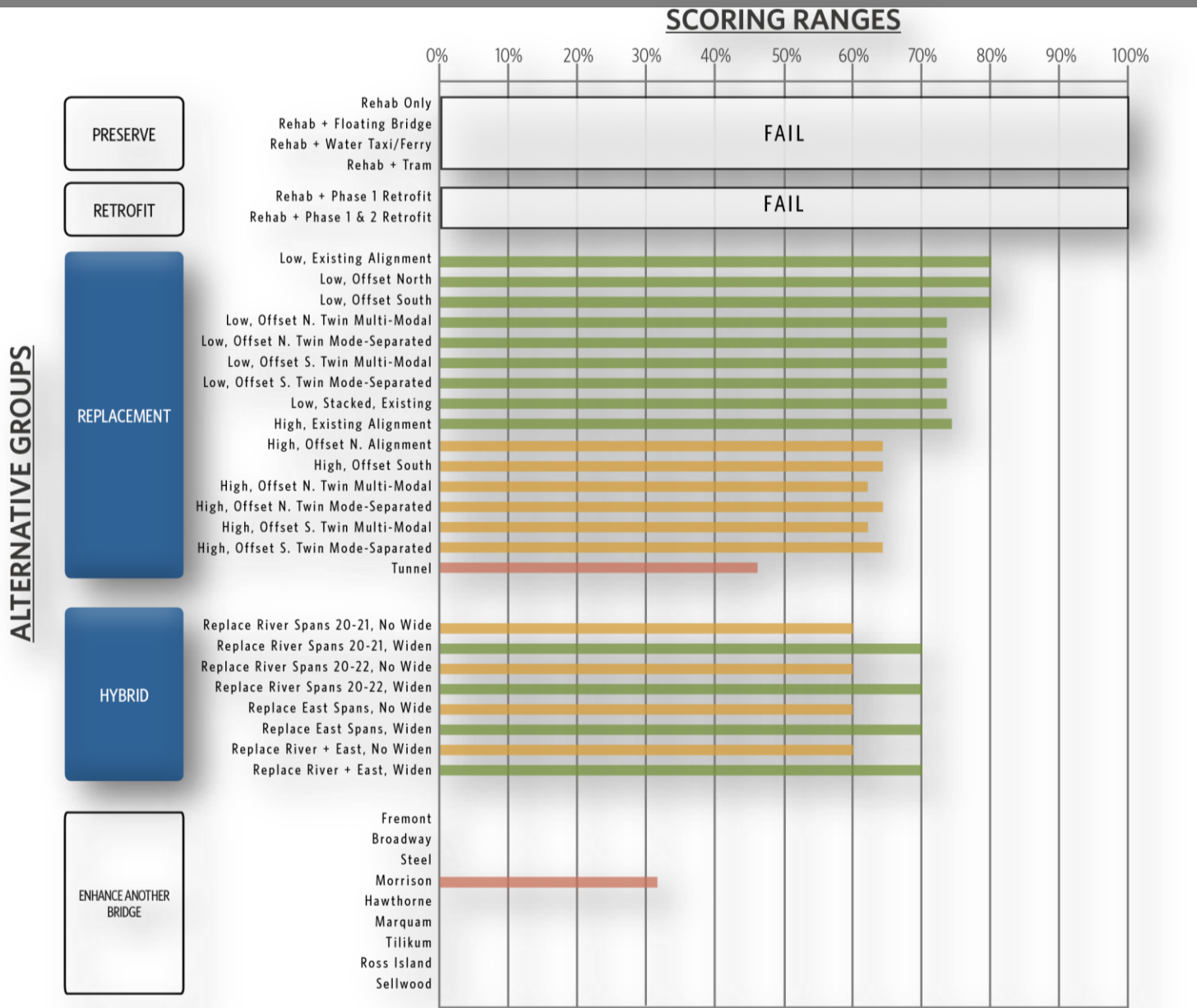
4. Screening Results

Alternative Groupings



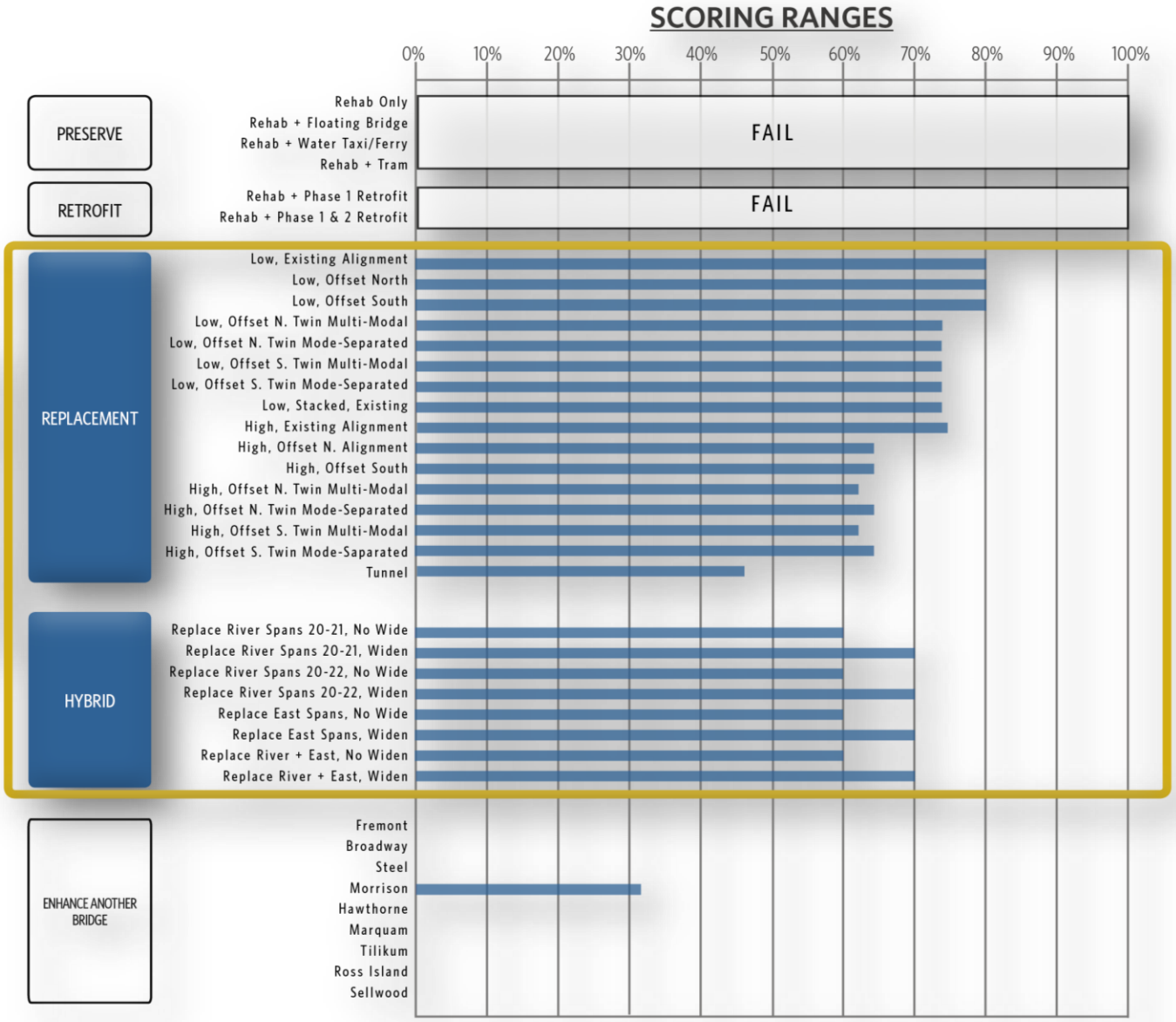
4. Screening Results

Alternative Groupings Results



4. Screening Results

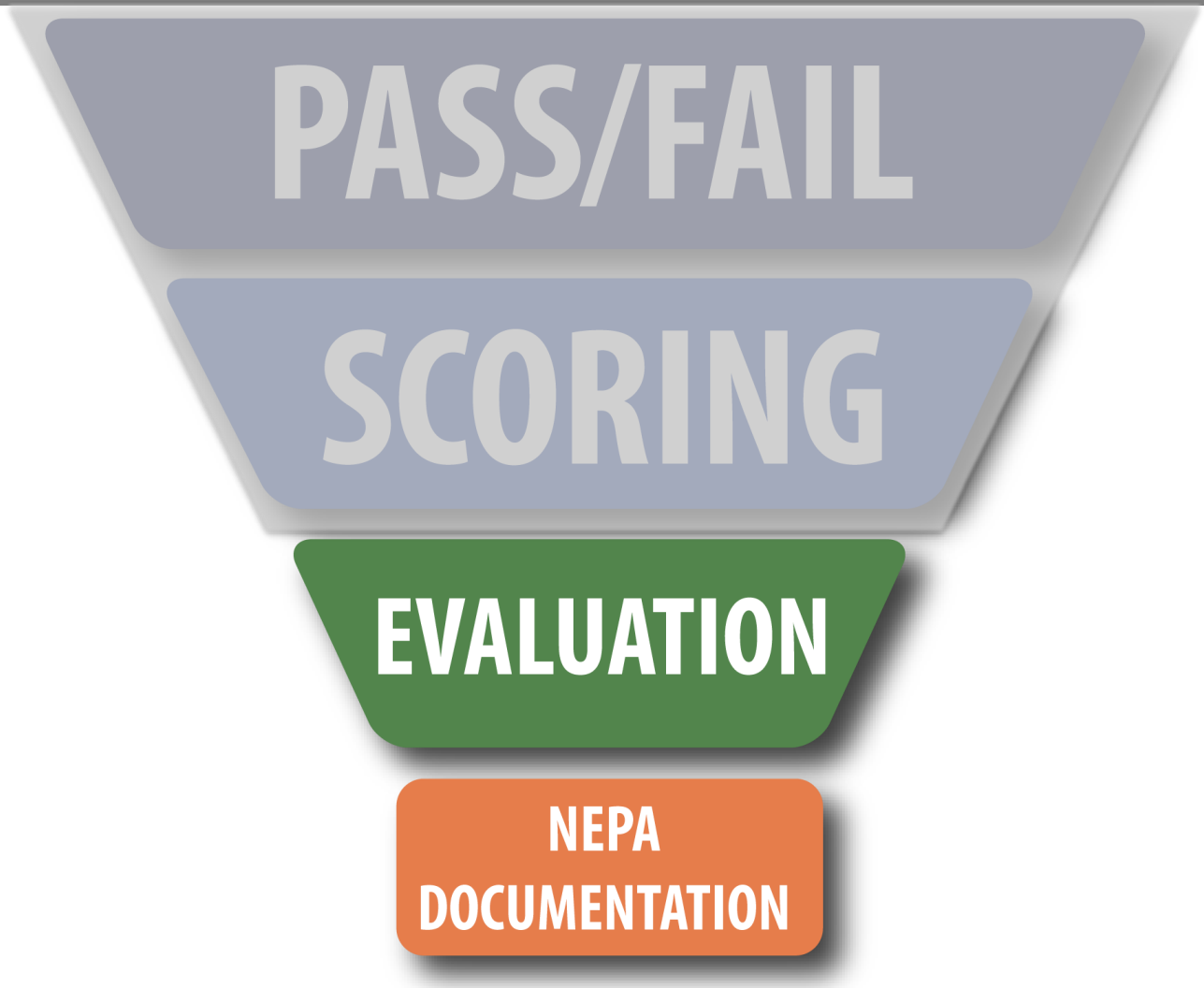
Key Findings and Recommendations



Results:

Of the 5 groups of alternative types, 3 groups were eliminated through the screening process

5. Alternatives Evaluation



5. Alternatives Evaluation

Guiding Principles

Measurable at the level of design and information that will be available in this step

Help differentiate alternatives

Reflect input received to date

Narrow range of crossing options to be carried forward into an environmental impact statement

5. Alternatives Evaluation

Potential Criteria Topics

Equity and Diversity				**Bike/Ped/ADA Access**
Social Resources (neighborhoods, social services, etc.)	**Recreation**	**Land Use, Commerce, and Economic Development**	**Historic/Cultural**	**Natural Environment**
Right-of-Way	**Facility Use** (HazMat, emergency equipment, vessels, heavy haul, etc)	**Construction**	**Seismic Performance**	**Transit Access and Connectivity**
Traffic Congestion	**Sustainability**	**Cost**	**Permitting Requirements**	**Others?**

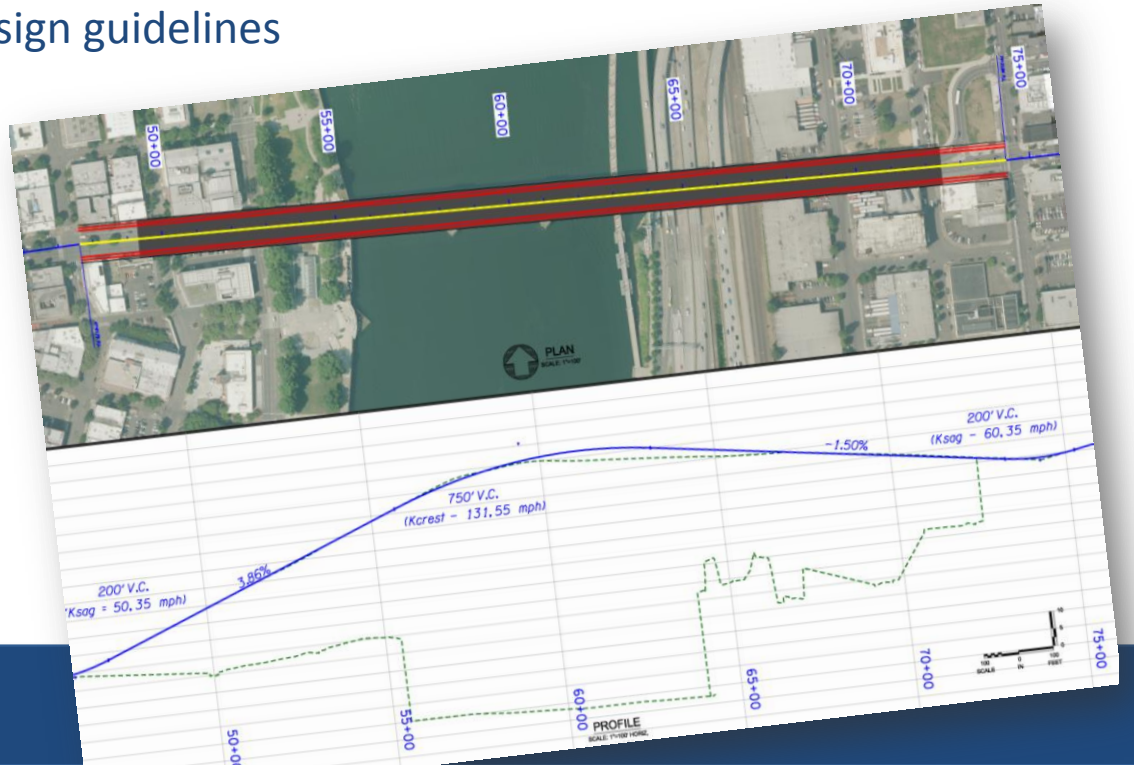
5. Alternatives Evaluation

EARTHQUAKE READY BURNSIDE BRIDGE

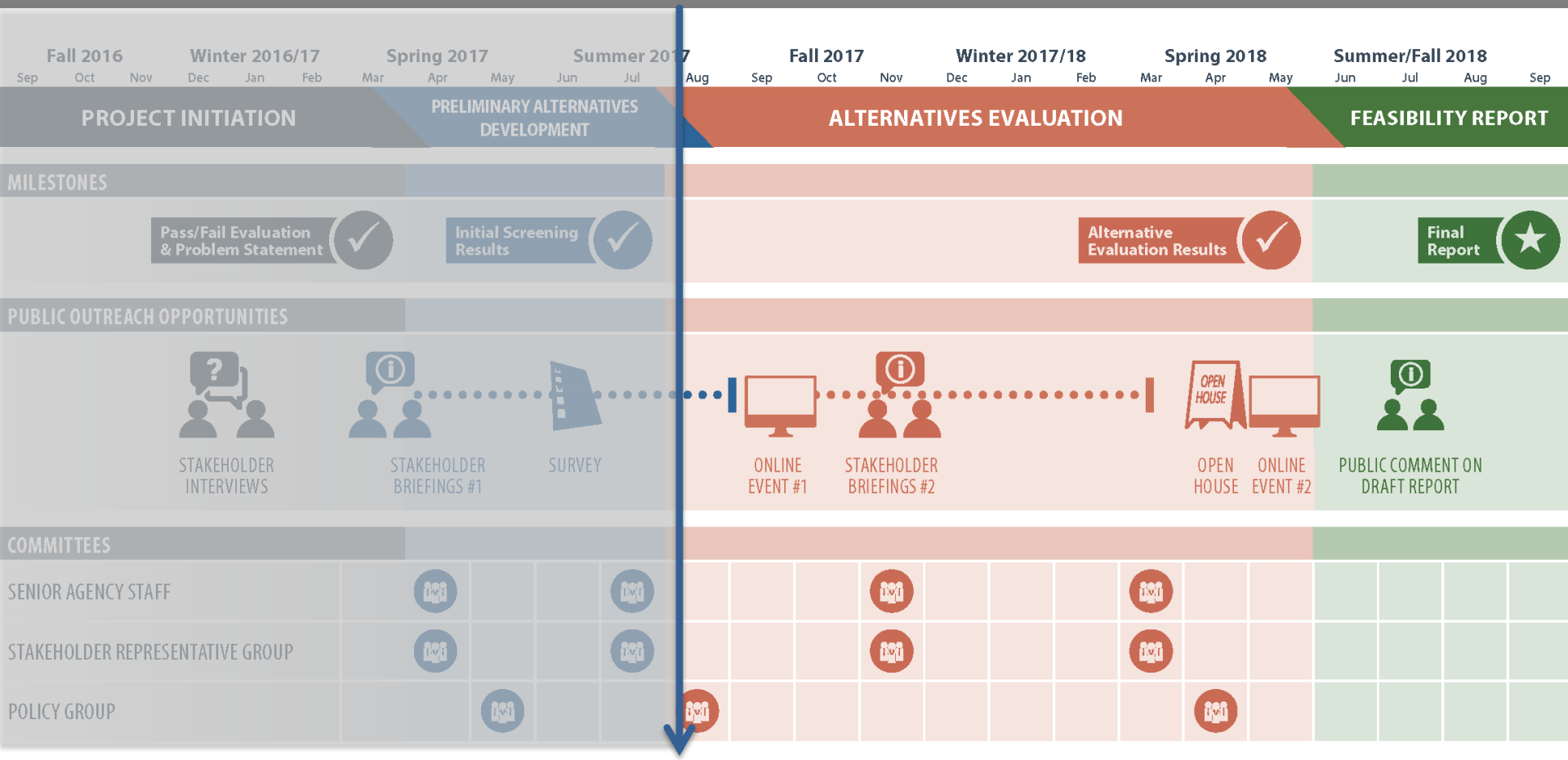
Concepts Development

What's happening next?

- 22 options moving forward into Evaluation phase
- Advancing alternatives engineering
- Developing cost estimates
- Finalizing design guidelines
- Developing evaluation criteria and measures
- Conducting alternatives evaluations
- Continued technical and public outreach



6. Schedule Review



We are here

7. Public Comment

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Questions or comments?

8. Closing Remarks

Thank you