



Board of County Commissioners

Department of Community Services
Transportation Division

May 24, 2018

Project Purpose

REGIONAL
EARTHQUAKE
RISK

1 in 3 chance of
magnitude 8+
earthquake within
50 years

CALL TO
ACTION

2015 WRB CIP
identified the
Burnside Bridge as
number one priority
for seismic resiliency

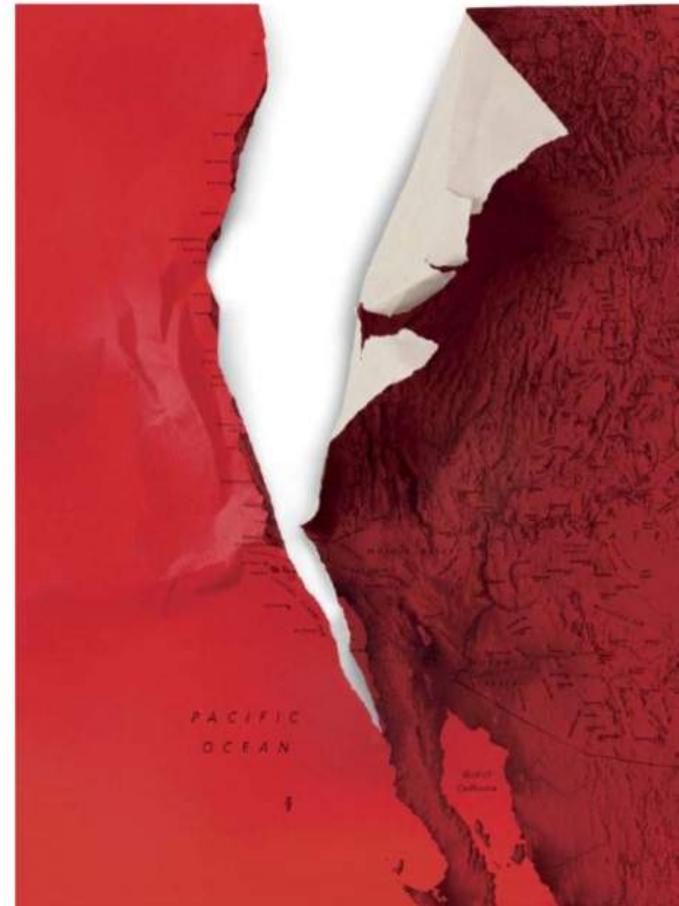


Illustration by Christoph Niemann; Map by Ziggymaj / Getty



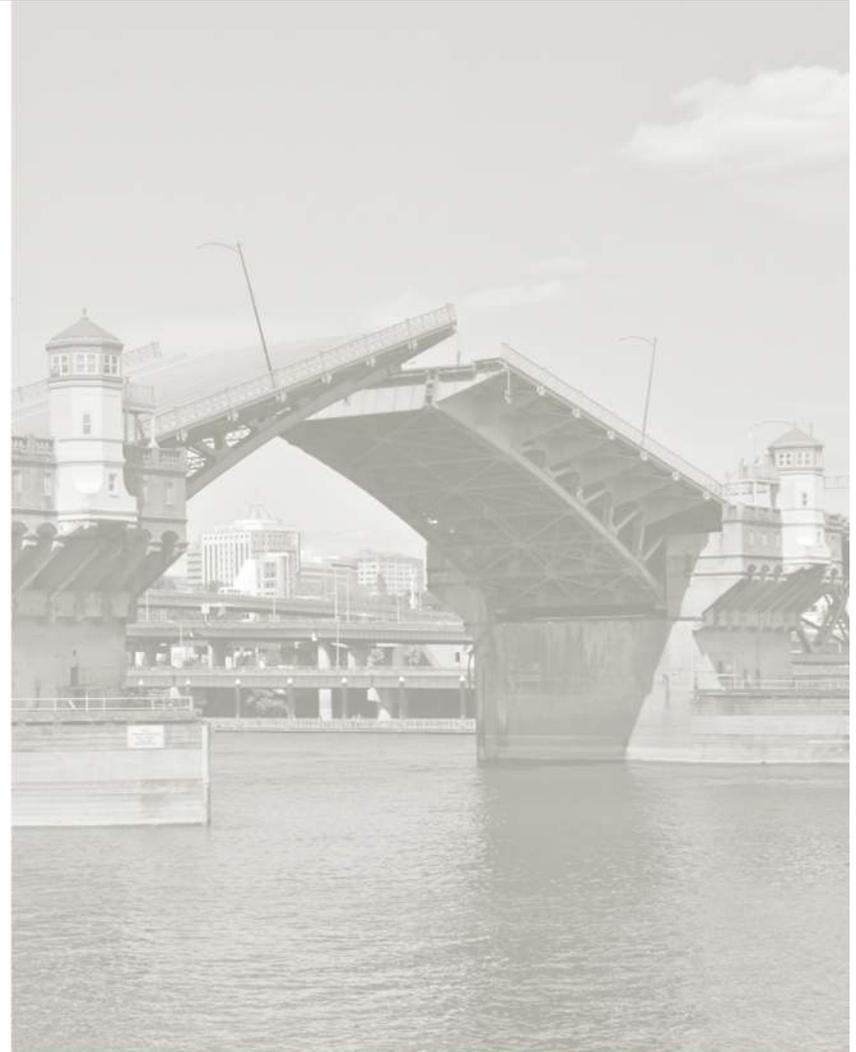
Project Purpose

PURPOSE

To create a seismically resilient lifeline crossing

GOAL

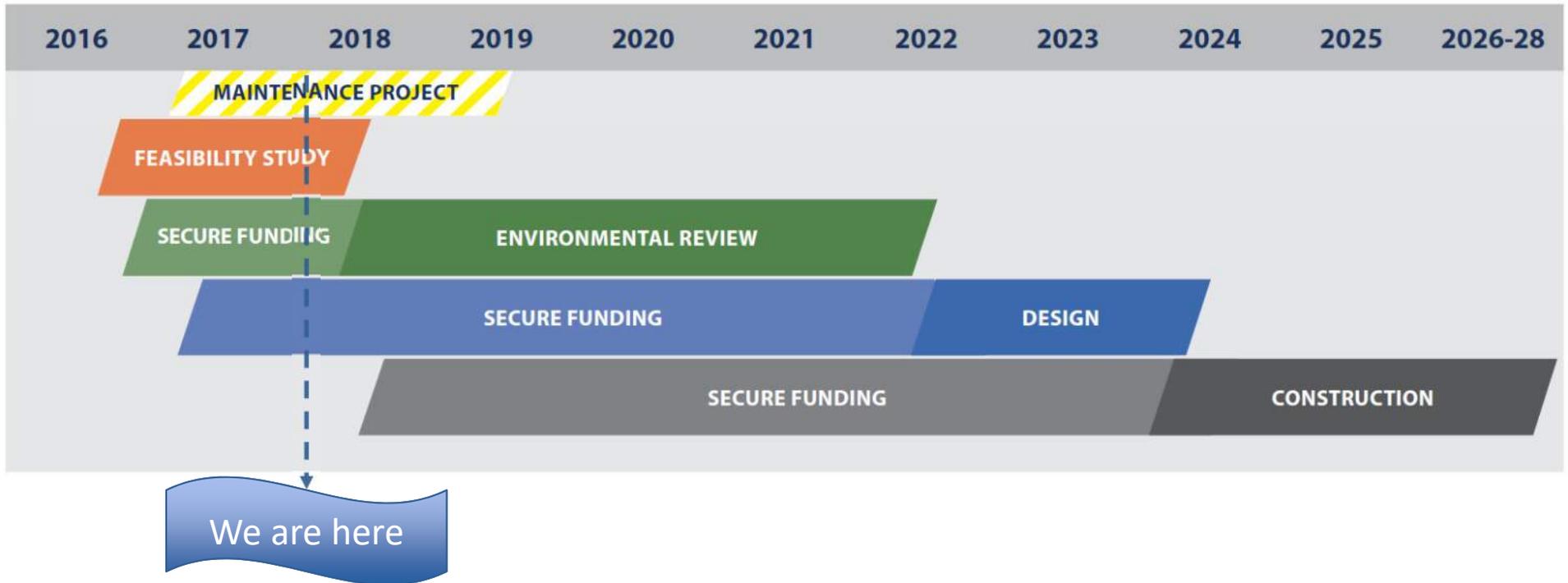
Short list of retrofit/
replacement options



Project Schedule



Long-Term Earthquake Ready Timeline



Project Schedule



Feasibility Study Timeline

FEASIBILITY STUDY TIMELINE



Public Involvement

Organizational Structure



Public Involvement



Public Outreach Tools



Multnomah County is working to create an earthquake-safe Willamette River crossing



BETTER. SAFER. CONNECTED.

Portland's aging downtown bridges are not expected to withstand a major earthquake. That is why Multnomah County is taking the lead on making at least one earthquake ready. Located in the heart of downtown, the Burnside Bridge is a regionally established lifeline route across the Willamette River. Lifeline routes are in-

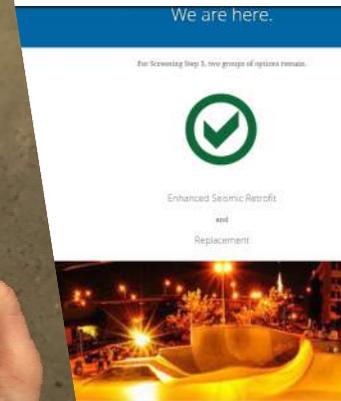
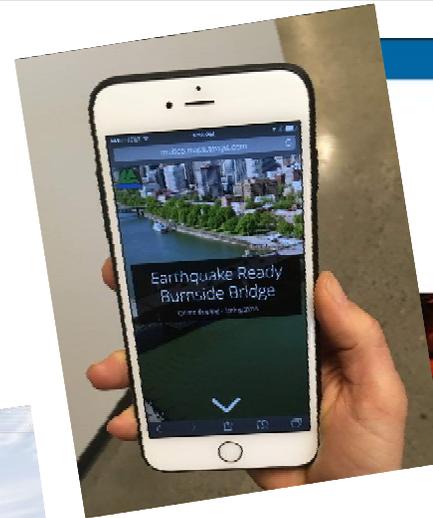
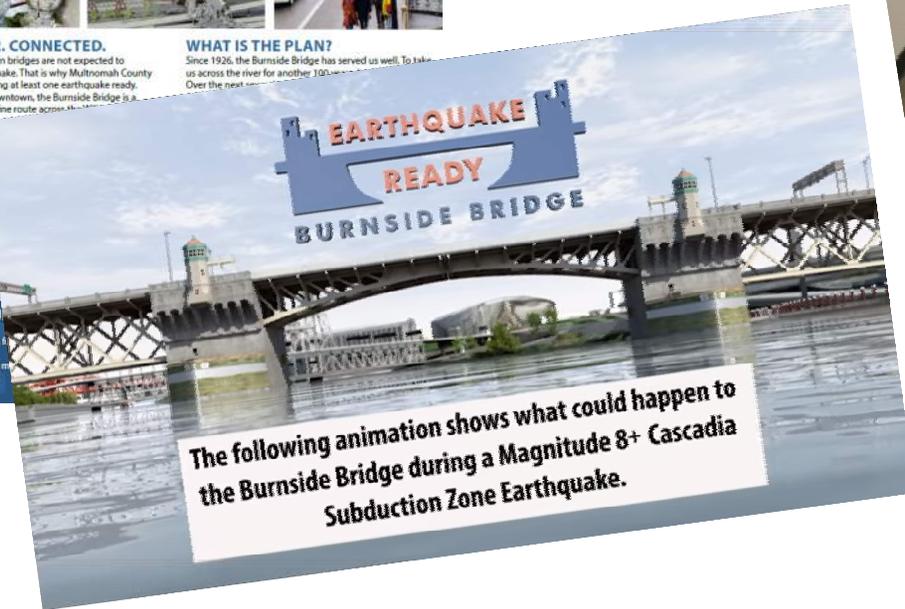
WHAT IS THE PLAN?

Since 1926, the Burnside Bridge has served us well. To take us across the river for another 100+ years, we need to improve it. Over the next...

- ▶ Help freetrucks, an emergency
- ▶ Reunite family and
- ▶ Help our economy

VISIT THE PROJ

- Sign up for updates
- Request a presentation business group.
- Learn about upcoming m ways to provide input.



Public Involvement



“By the Numbers”

Number of Committee Meetings	11
Number of video views	69,000
Number of individual briefings	43
Number of people on stakeholder list	400
Number of views Online Open House	1,800
Total number of survey responses	235



Public Involvement

What we have heard



Resiliency: Make sure it can withstand Cascadia



Multi-modal: Post-event; everyday use



Preparedness: Fitting into the larger plan



Urgency: Can we go faster?

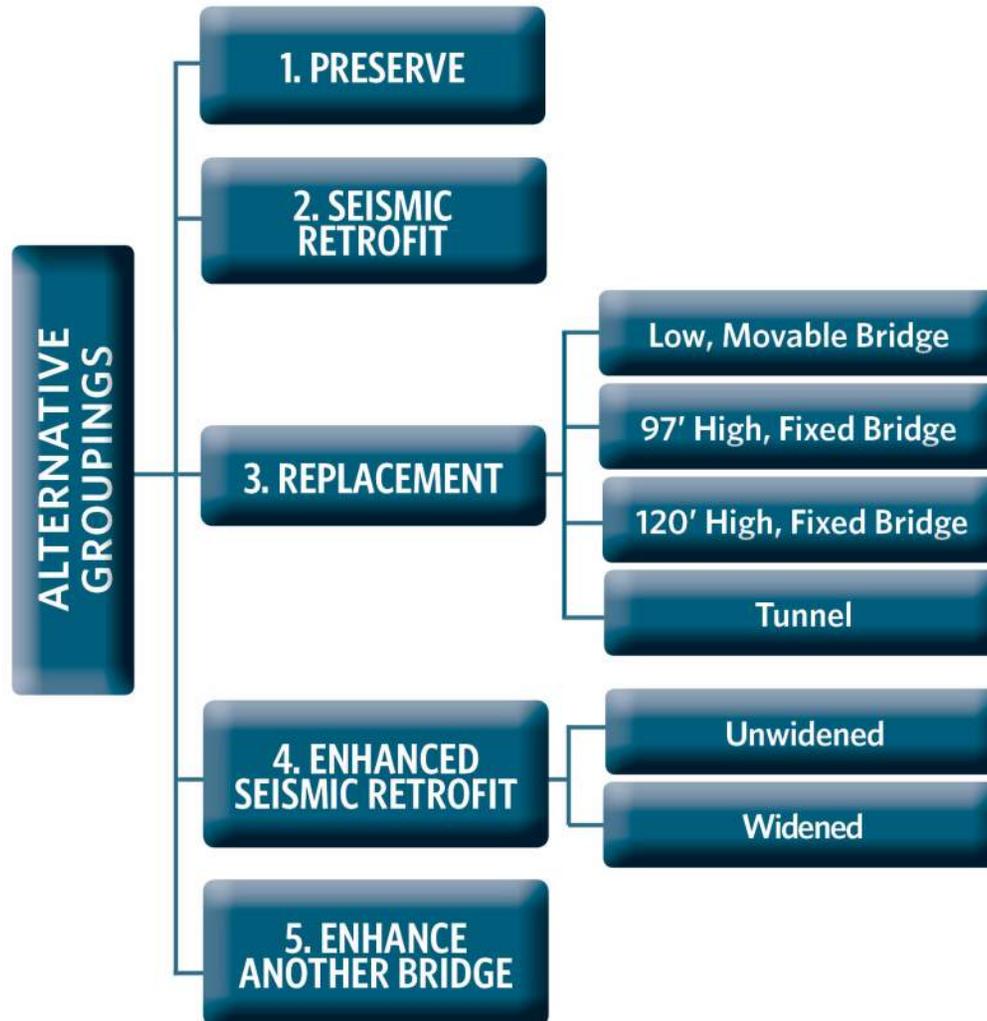


History: Honor the past, build for the future



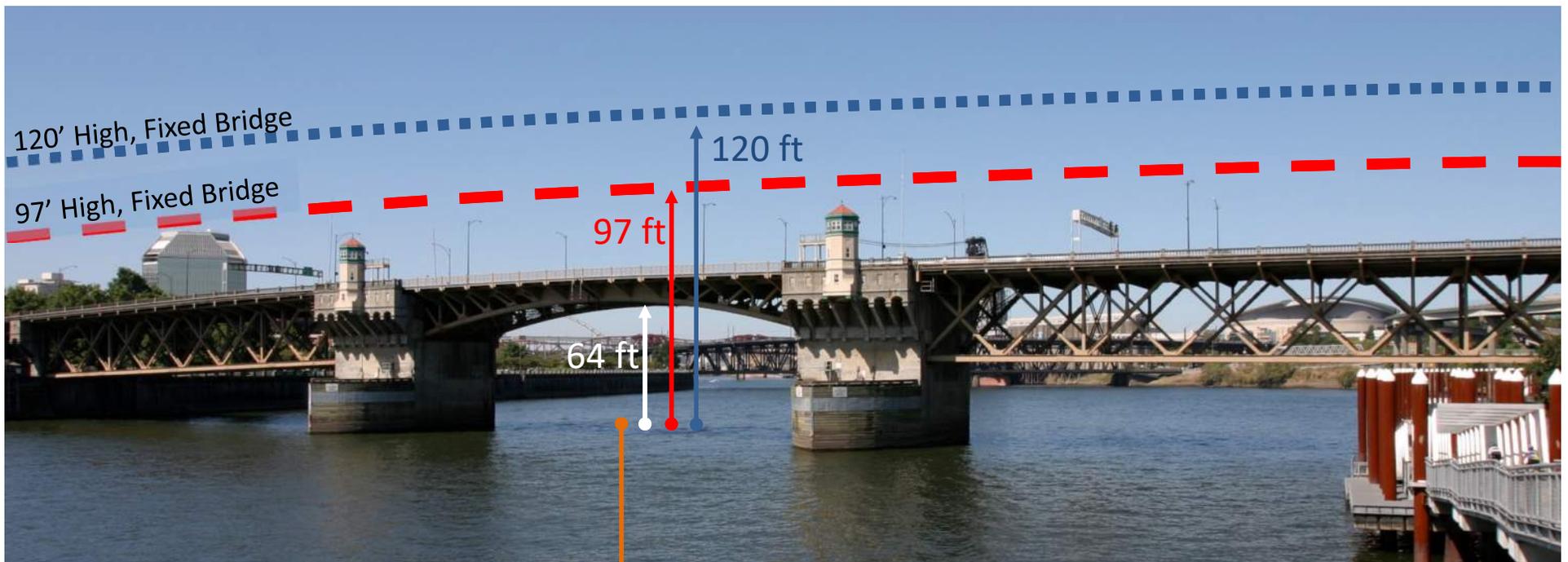
Alternatives Development

Five Groupings



Alternatives Development

Vertical Alignments



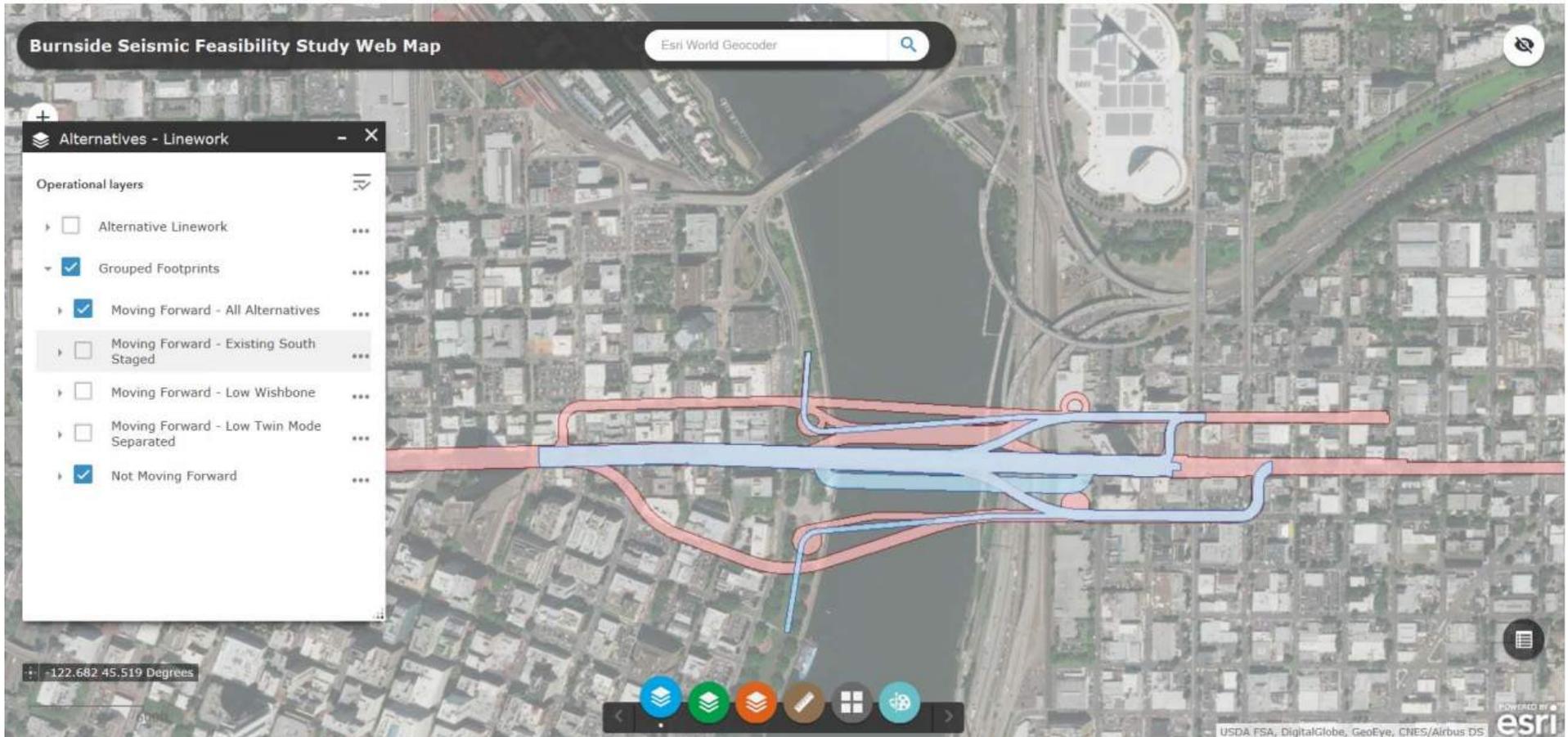
100 ft

Tunnel



Alternatives Development

Horizontal Alignments



Screening Process



Evaluation Criteria

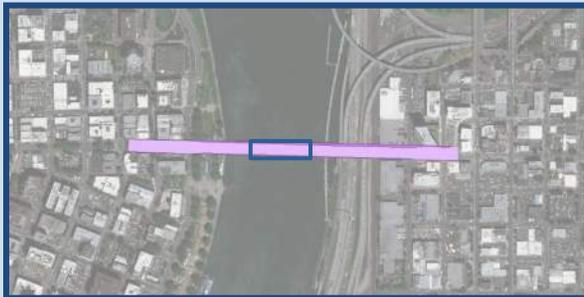
Seismic Resiliency	Support reliable and rapid emergency response after an earthquake
Non-motorized transportation	Support access and safety for bicyclists, pedestrians and people with disabilities
Connectivity	Support street system integration and function for all modes
Equity	Minimize adverse impacts to historically marginalized communities and promote transportation equity
Built Environment	Promote land use compatibility and minimize impacts to parks and historic resources
Financial Stewardship	Ensure public funds are invested wisely



Screening Results

Recommended options

ENHANCED SEISMIC RETROFIT



REPLACEMENT



- Existing Alignment
- Low Movable

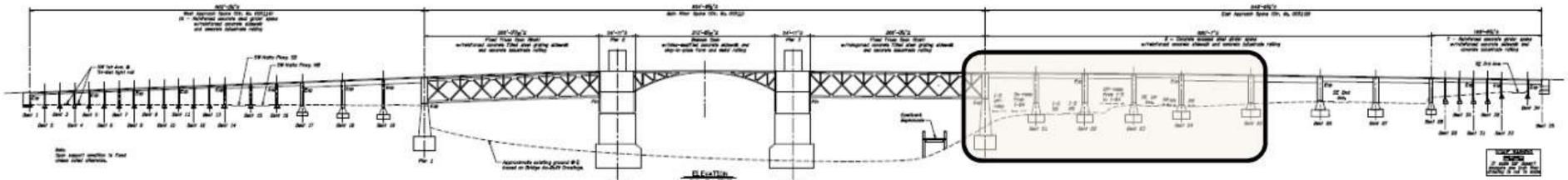
- Existing Alignment
- 97' High Fixed

- Wishbone Alignment (East Couch Couplet)
- Low Movable



Screening Results

Enhanced Seismic Retrofit



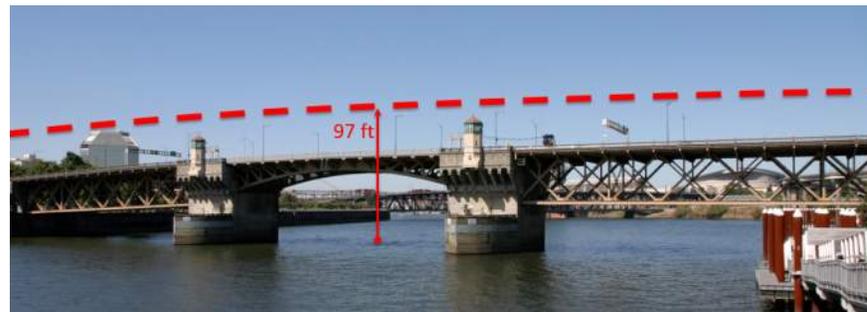
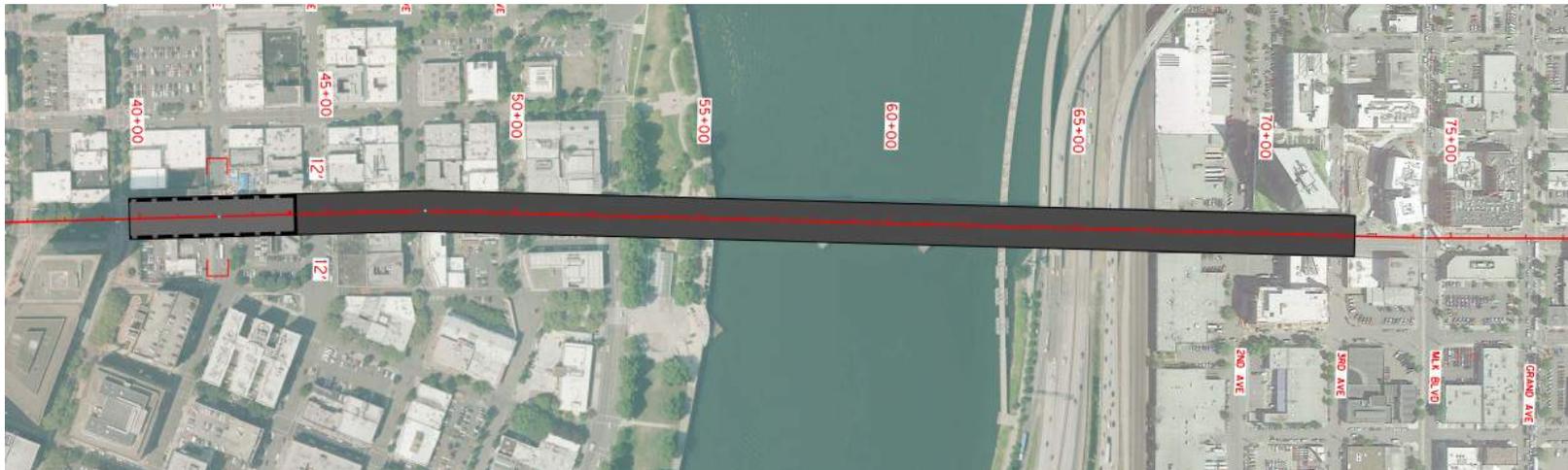
Screening Results

Replacement: Low Movable Bridge



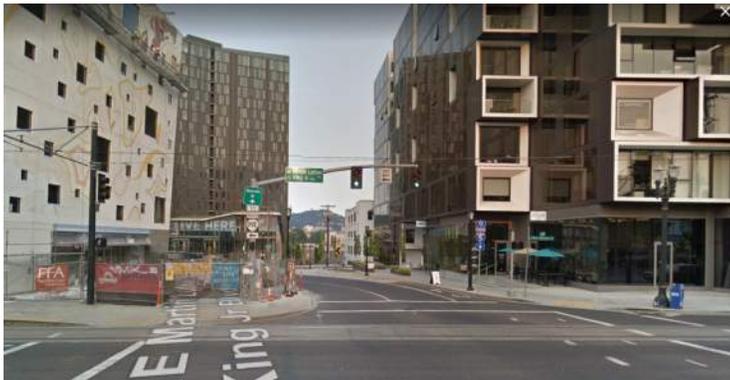
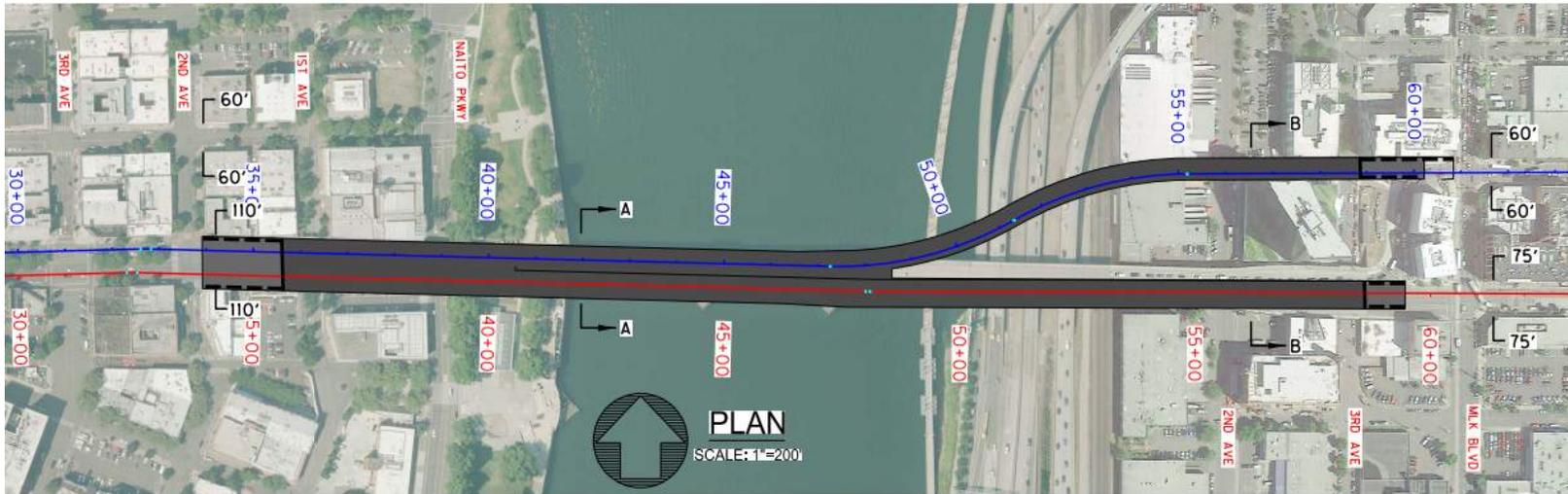
Screening Results

Replacement: 97' High Fixed Bridge



Screening Results

Replacement: Low Movable NE Wishbone



Capital Costs

Financial Stewardship: Preliminary Cost

Burnside St is open to traffic during construction

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Burnside St is closed to traffic during construction

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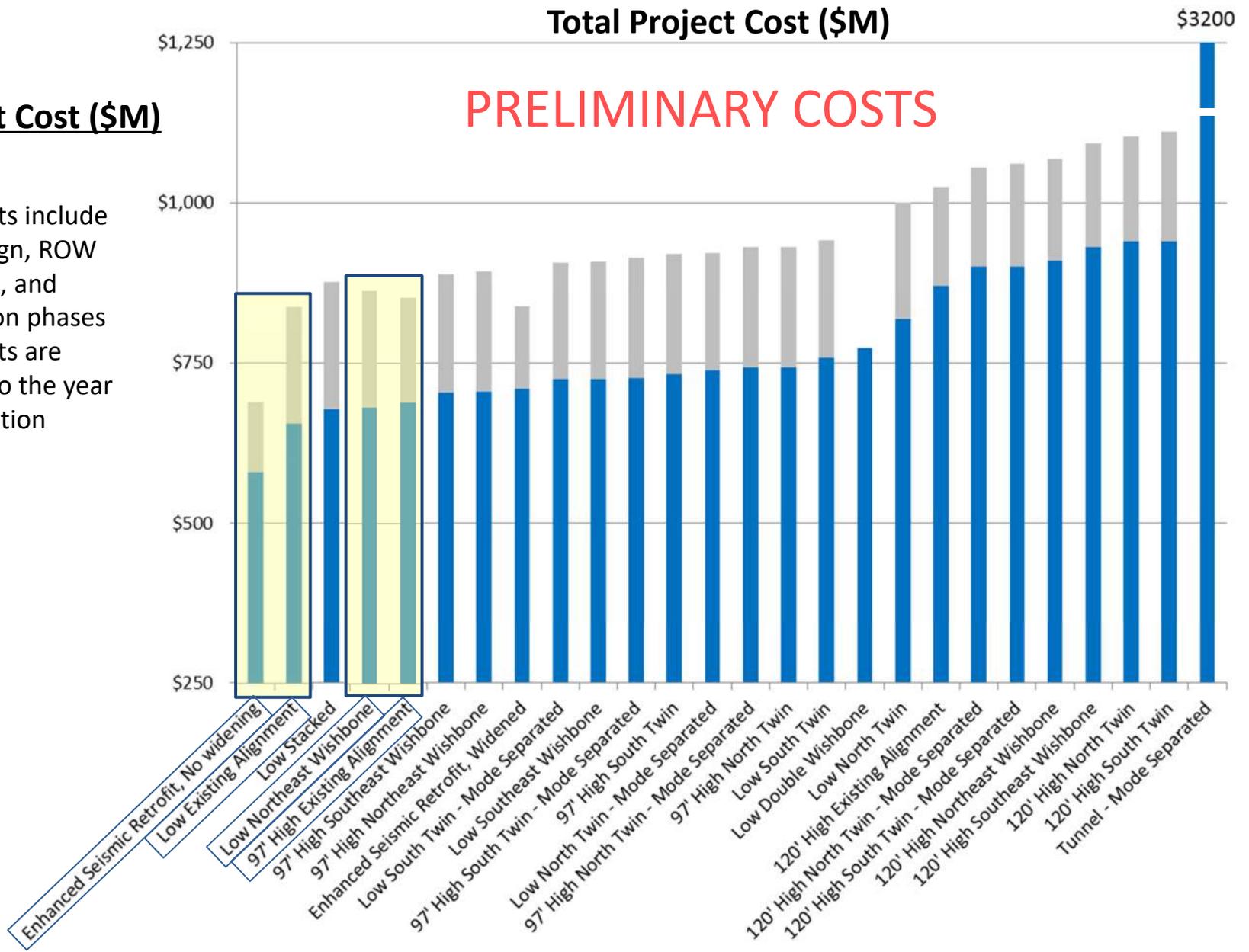


Capital Costs

Total Project Cost (\$M)

Notes:

1. Project costs include NEPA, Design, ROW Acquisition, and Construction phases
2. Project costs are escalated to the year of construction



Closing Remarks



Regional Resiliency	County is being proactive
Progress	From over 100 options to 4
Summer Outreach	Open houses, online event, in-person briefings, updated materials
Outcome	Shortlist to be approved by BCC this Fall

