



## **Historic Landmarks Commission**

Department of Community Services  
Transportation Division

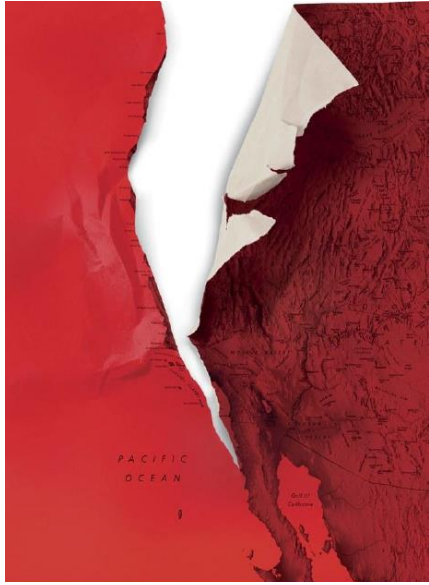
September 9, 2019

# Project Overview

## Background

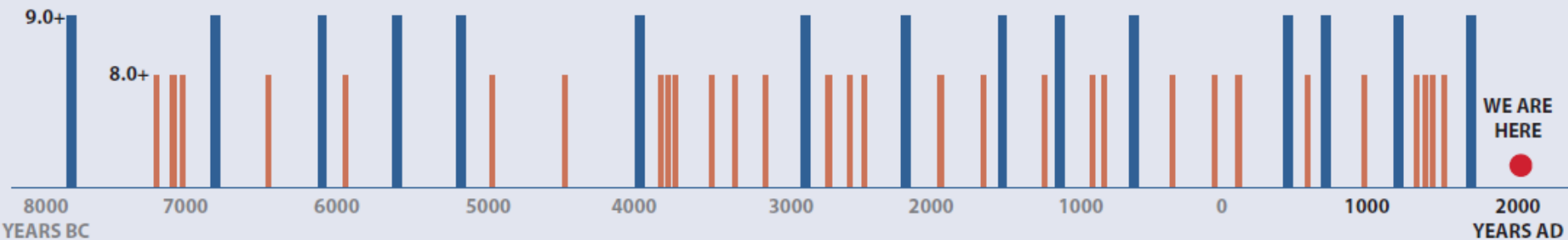
**REGIONAL  
EARTHQUAKE  
RISK**

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



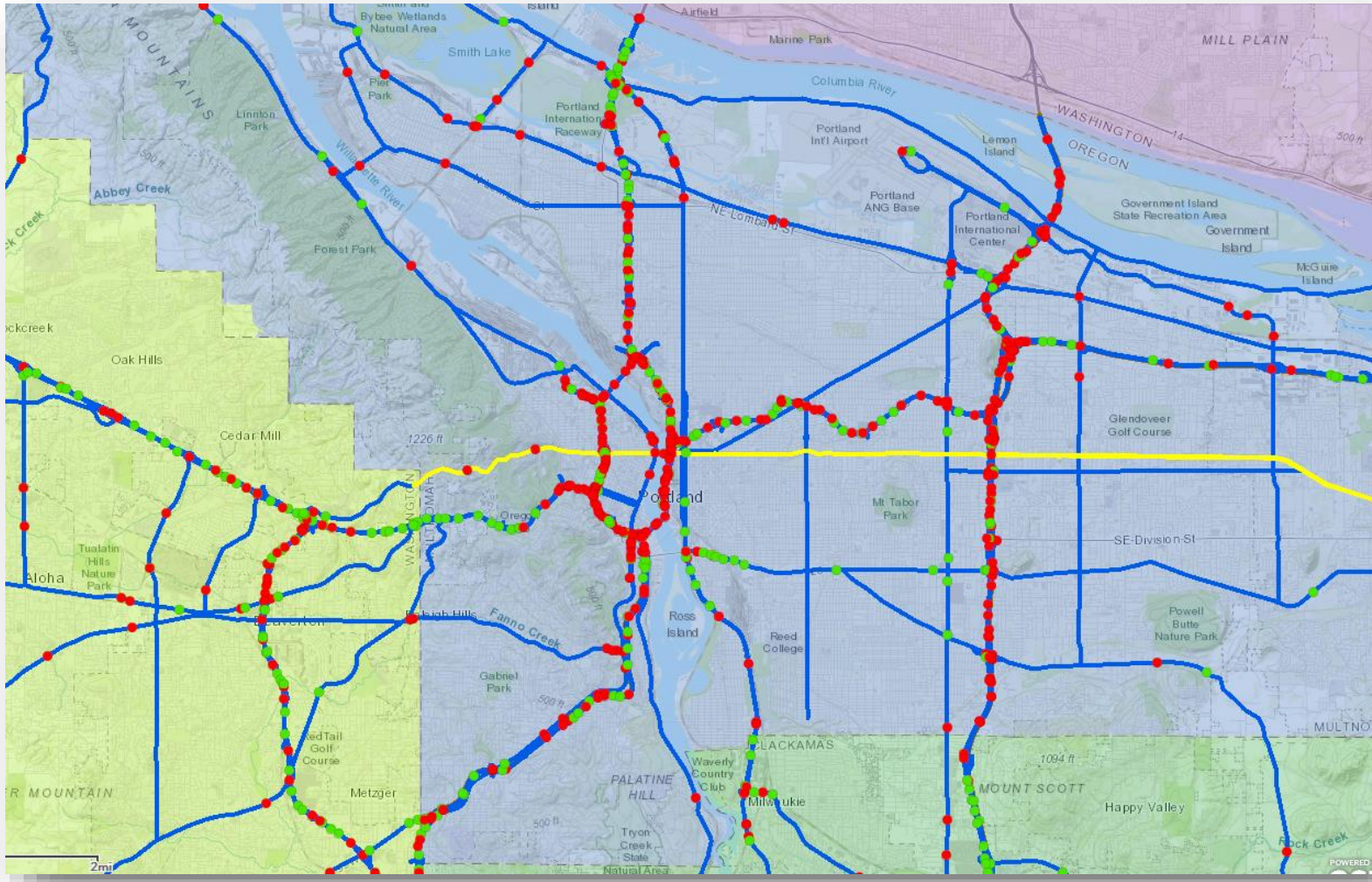
### CASCADIA SUBDUCTION ZONE (CSZ) EARTHQUAKE

Last major quake in Oregon occurred 317 years ago, a timespan that exceeds 75% of the intervals between the major quakes to hit Oregon over the last 10,000 years.



# Project Overview

## Background – Why Burnside?



# Project Overview

## Purpose



Create a seismically resilient Burnside Street lifeline crossing of the Willamette River that will remain fully operational and accessible for vehicles and other modes of transportation immediately following a major CSZ earthquake.



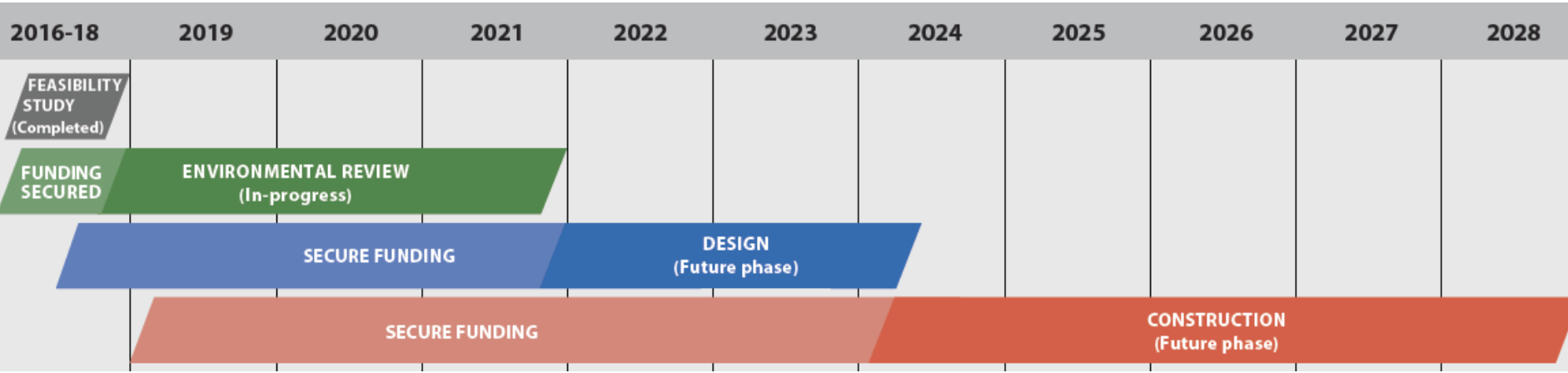
Support the region's ability to provide rapid and reliable emergency response, rescue and evacuation after a major earthquake, as well as enable post-earthquake economic recovery.



Provide a long-term, low-maintenance and safe crossing for all users.



# Project Timeline



# Project Funding

- **Potential Funding Sources**

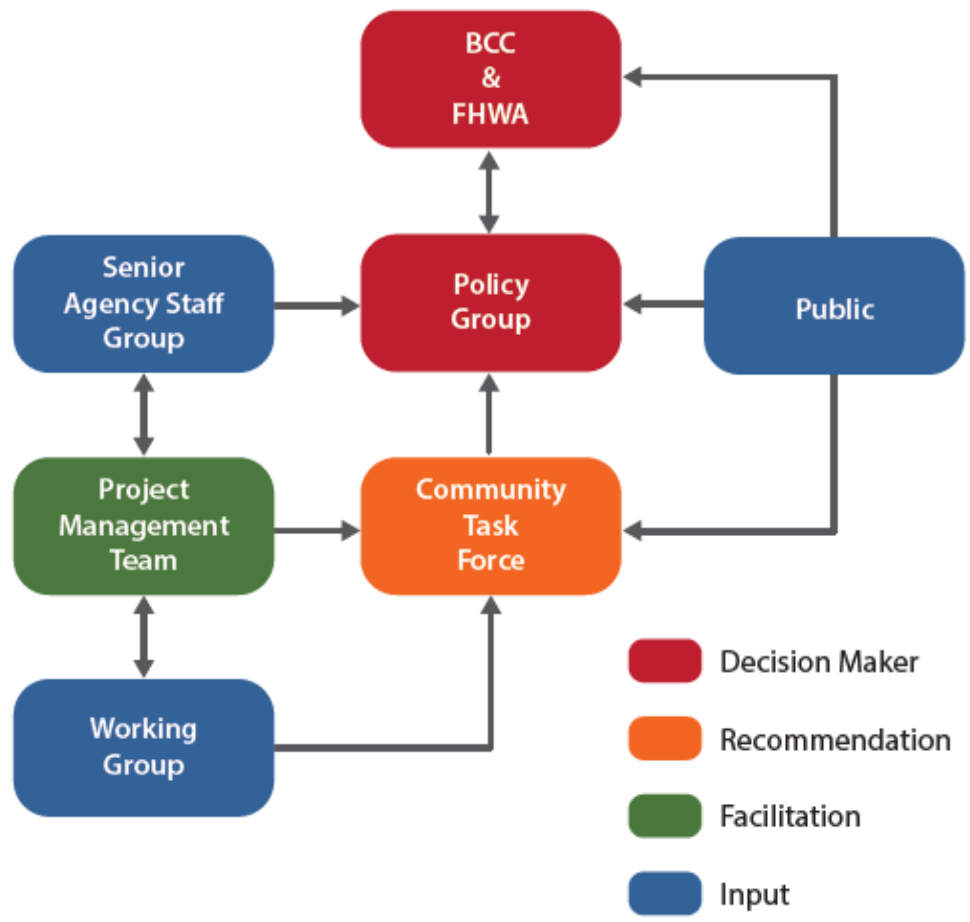
- County Vehicle Registration Fee (fund Planning, Design, Construction Phases)
- Regional Metro T2020 bond measure (Construction Phase)
- State/Federal (Construction Phase)

- **Multnomah County VRF**

- Currently \$19/year (lowest of 3 Metro counties)
- Proposed: raise to \$56/year
  - County Board vote 11/7/2019
  - Effective 1/1/2021
- Dedicated to County's Willamette River bridges
- New \$ targeted for Burnside Bridge



# Decision-making Framework



# Bridge Alternatives

**1**

**ENHANCED SEISMIC RETROFIT**

**Retrofit + Replace**

Retrofit existing      Retrofit existing movable span      Replace (over I-5 and railroad line)

**LEGEND**    ■ Retrofit existing structure    ■ Replace structure

**2**

**REPLACEMENT: FIXED BRIDGE**

**A Below Deck Members**

**OR**

**B Above Deck Members**

**3**

**REPLACEMENT: MOVABLE BRIDGE**

**A Bascule**

**OR**

**B Lift**

**4**

**REPLACEMENT: MOVABLE BRIDGE NE Couch Connection**

**A Bascule**

**OR**

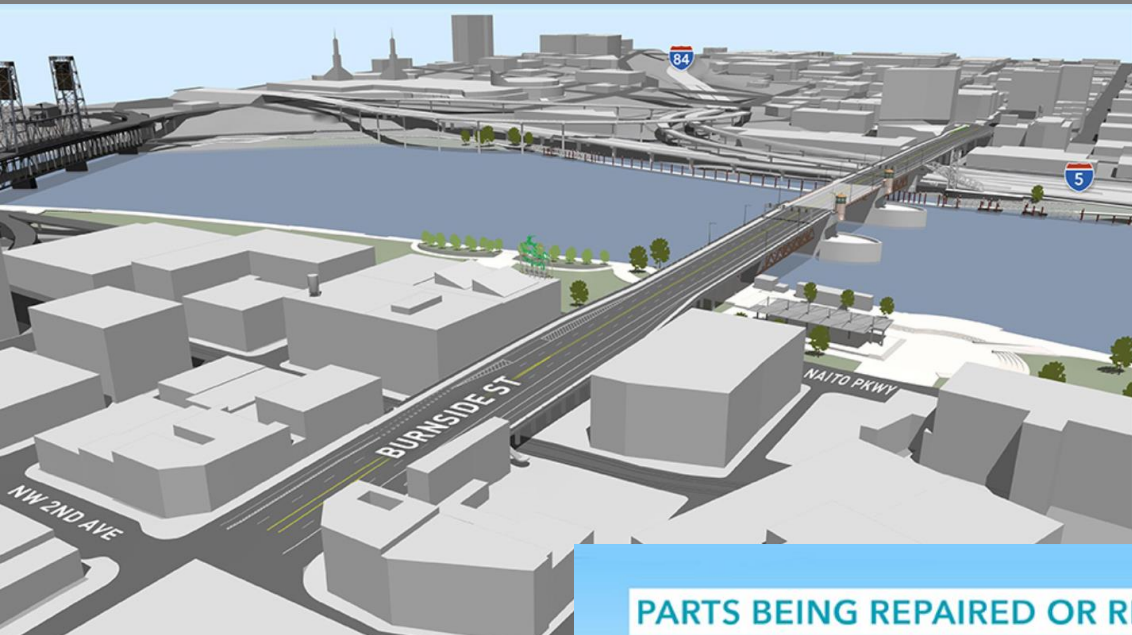
**B Lift**



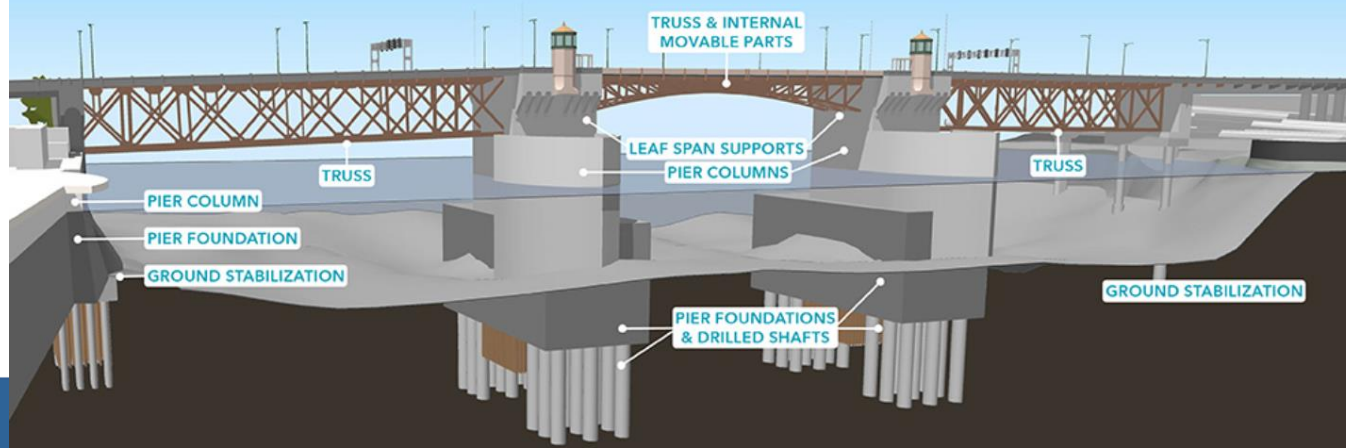


# Bridge Alternatives

## Enhanced Seismic Retrofit



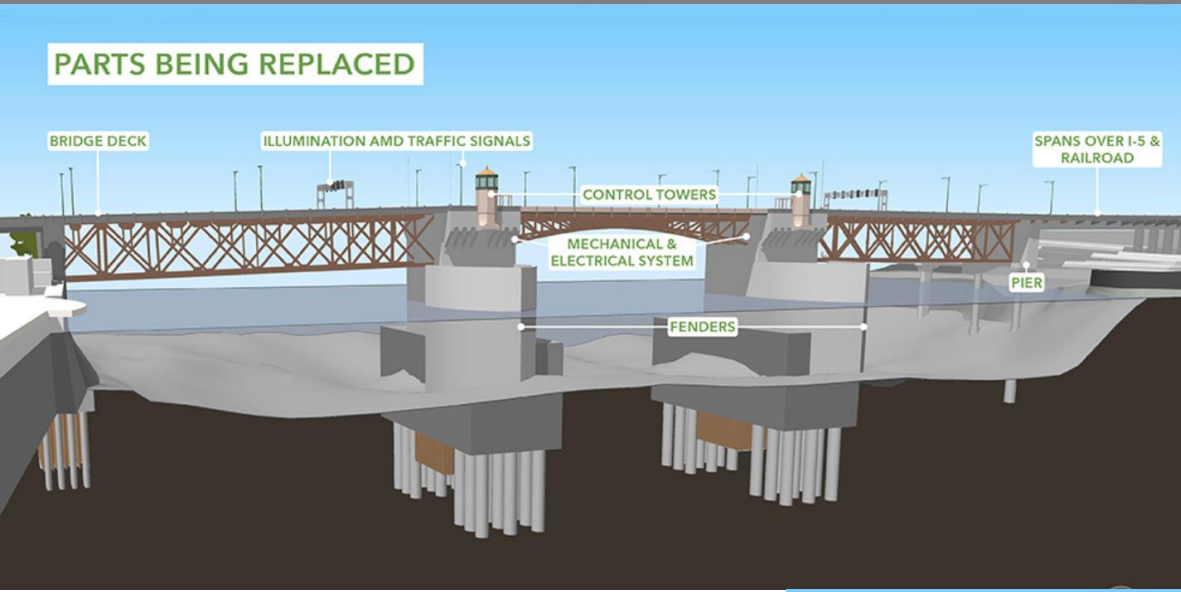
### PARTS BEING REPAIRED OR RETROFITTED



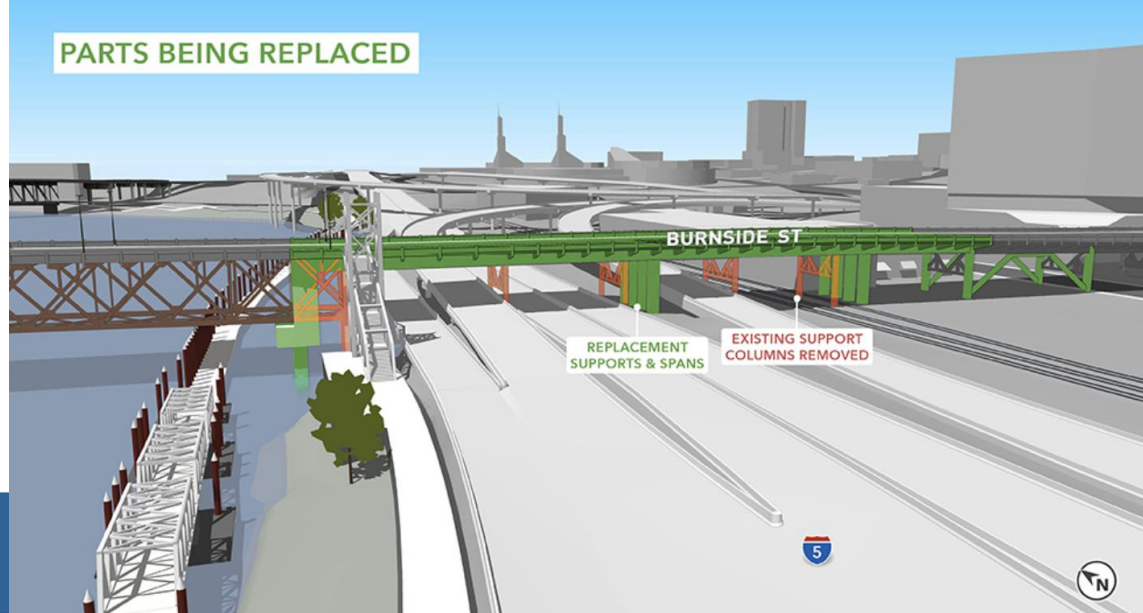
# Bridge Alternatives

## Enhanced Seismic Retrofit

### PARTS BEING REPLACED



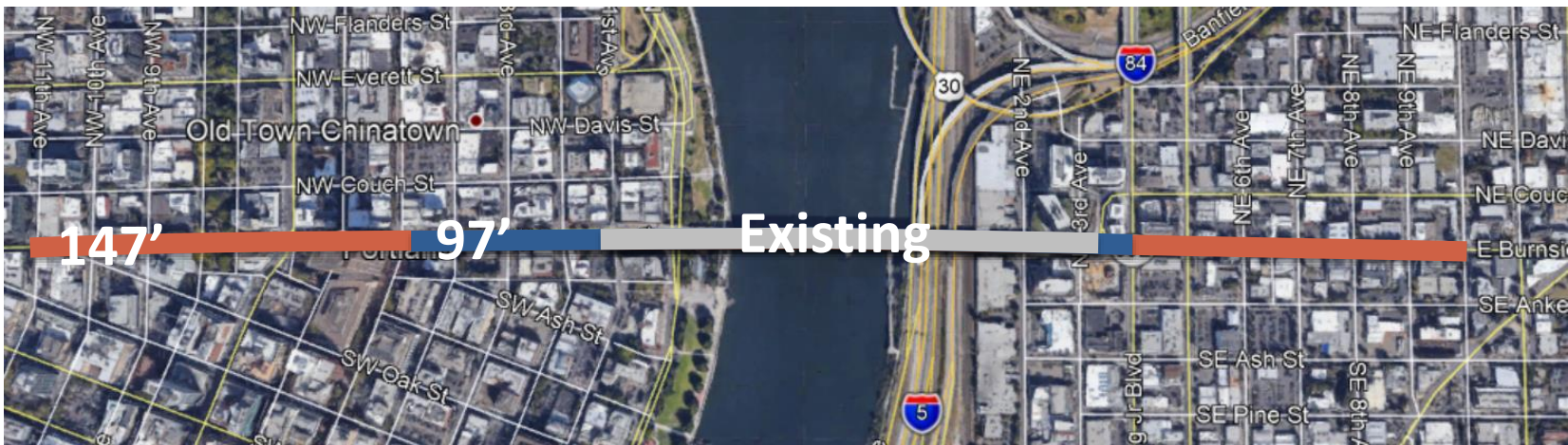
### PARTS BEING REPLACED



# Bridge Alternatives

## High Fixed – Not Recommended for Further Study

- From 97' to 147' of clearance
- +/- 500' additional bridge length on both sides



# Bridge Alternatives

Replacement: High Fixed – Not Recommended for Further Study



NAITO PARKWAY



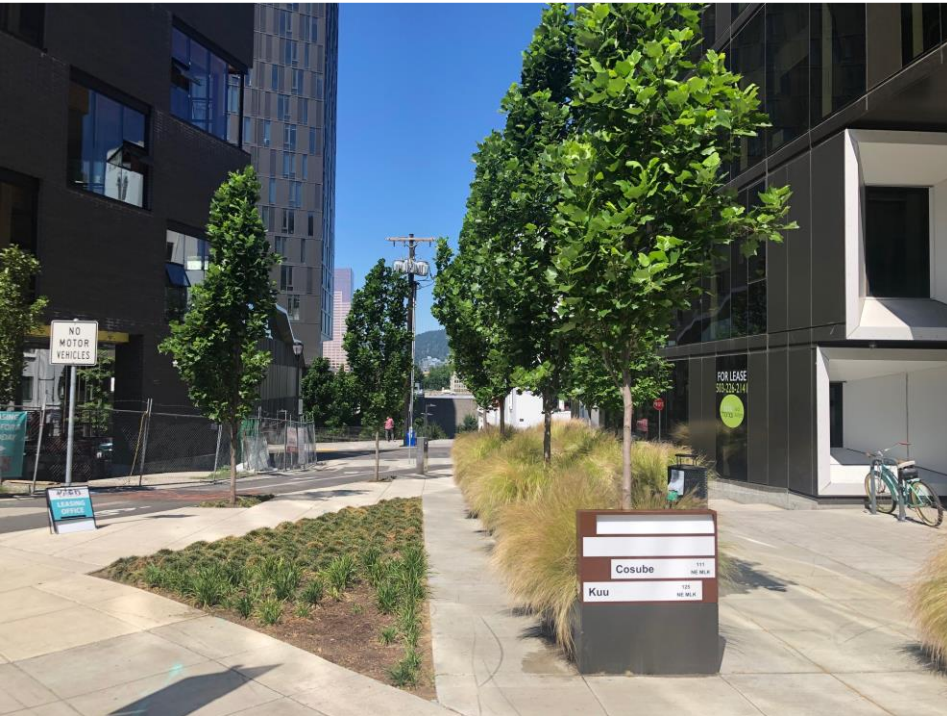
# Bridge Alternatives

Replacement: Movable Bridge – NE Couch Connection



# Bridge Alternatives

## Replacement: Movable Bridge – NE Couch Connection



# Traffic Management

## During Construction

### Option 1: Temporary bridge

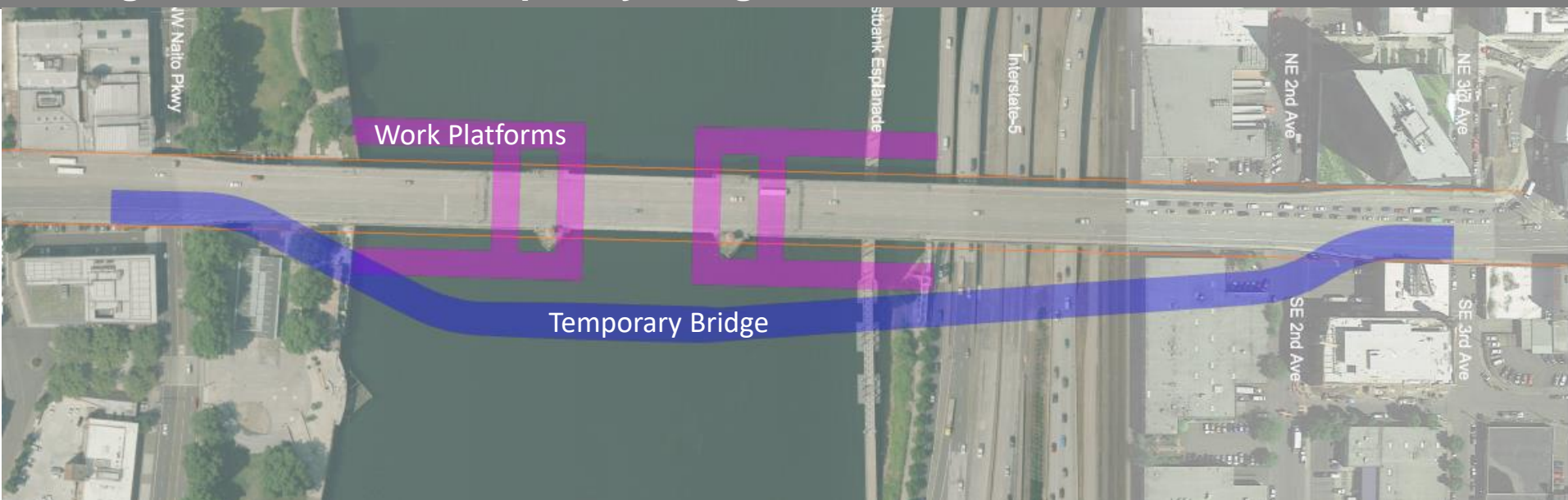


### Option 2: Full bridge closure (detour to other bridges)



# Traffic Management

## During Construction – Temporary Bridge

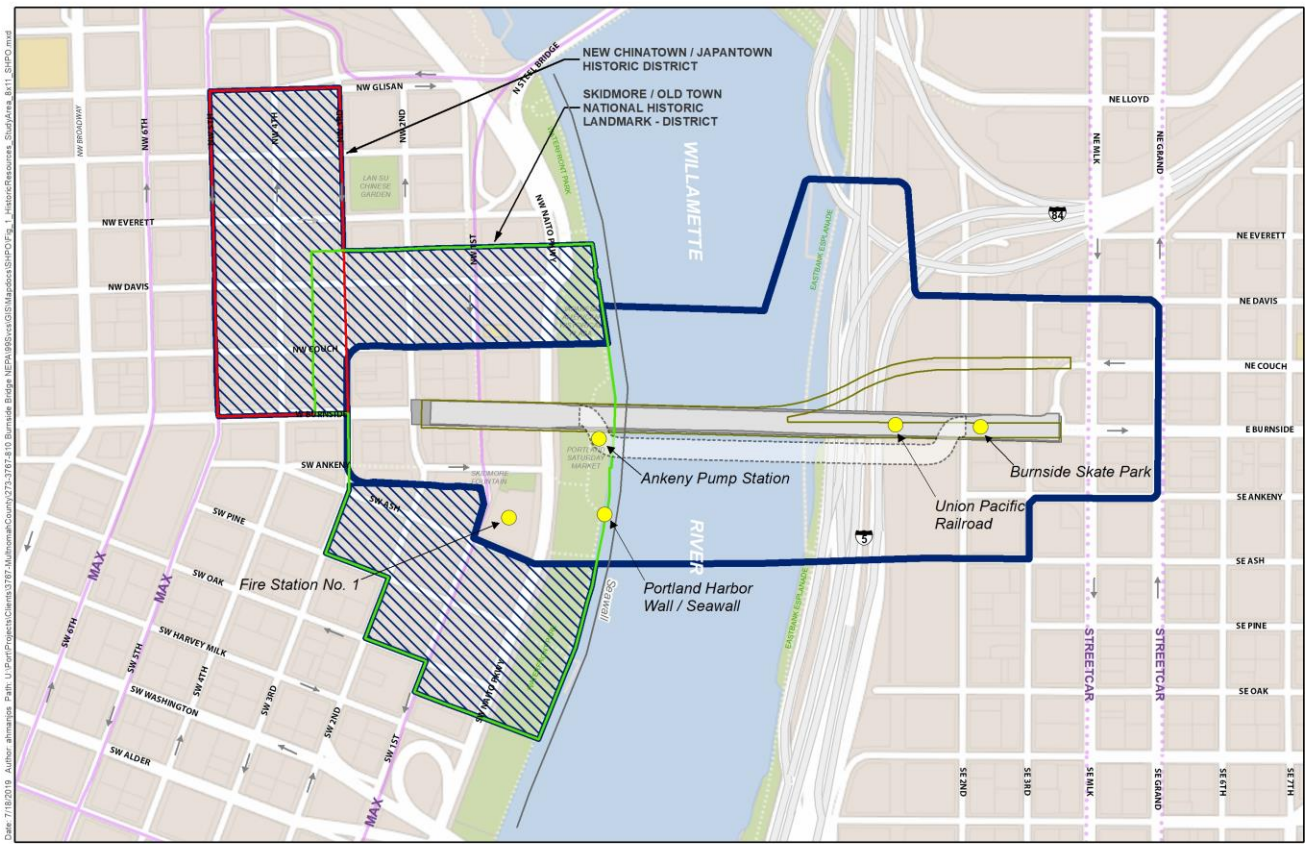


- Approximately half the width of existing bridge
- + approximately \$100 million to total project cost
- + 1 year to construction duration





# Revised draft APE



Date: 7/18/2019 Author: ahmmpol Path: U:\P\proj\Projects\Cleantech\3787\_MultnomahCounty\3773\_3702\_810\_Burnside\_Bridge\_NEPA\9905\GIS\MapDocs\SHPO\Fig\_1\_Initial\Fig000001\_SurveyArea\_811\_SHPO.mxd



Source:  
City of Portland, Oregon  
HDR, Parametrix



- Direct Impact APE
- Indirect Impact APE
- Movable Bridge: NE Couch Connection
- Enhanced Seismic Retrofit
- Movable Bridge
- Temporary Bridge

- Recommended Eligible Resources
- New Chinatown / Japantown
- Skidmore / Old Town

**Attachment 1.**  
Direct and Indirect Impact APE  
Historic Districts  
Earthquake Ready Burnside



# Inventory Results

Recommended Eligible for the NRHP



Central Fire Station and Fire Museum (1952)



# Inventory Results

Recommended Eligible for the NRHP



Harbor Wall/Seawall (1929)

# Inventory Results

Recommended Eligible for the NRHP



Ankeny Pump Station (1929/1951)



# Inventory Results

Recommended Eligible for the NRHP



Oregon & California RR/Southern Pacific RR/Union Pacific RR (1868)



# Inventory Results

Recommended Eligible for the NRHP



Burnside Skate Park (1990)

# Evaluation Criteria

## Draft Topics

- **Seismic Resiliency**
- **Visual and Aesthetics**
- **Community Quality of Life**
- **Natural Resources, Climate Change and Sustainability**
- **Equity and Environmental Justice**
- **Pedestrians, Bicyclists & People with Disabilities**
- **Crime Reduction and Personal Safety**
- **Motor Vehicles, Freight & Emergency Vehicles**
- **Business and Economics**
- **Parks**
- **Historic Resources**
- **Transit**
- **Fiscal Responsibility**



# Summer/Fall Outreach

## Key Activities

- **Online Open House**
- **Briefings**
- **Tabling**
- **Community Engagement Liaisons and Multi-Lingual Outreach**
- **Social Media**
- **E-newsletters and News Release**





# September Outreach

## Visit the Online Open House and Survey September 3 – October 4

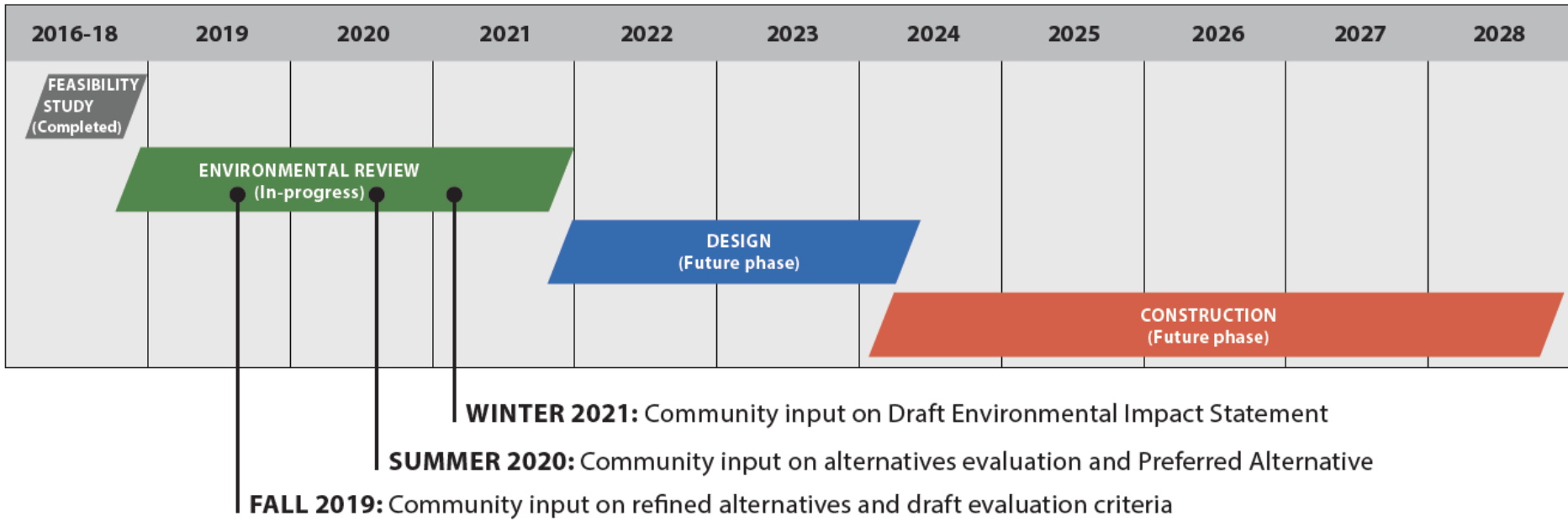


[www.Burnsidebridge.Participate.Online](http://www.Burnsidebridge.Participate.Online)



# Key Engagement Milestones

There are three primary points of community input during the Environmental Review process



# Thank you!

