



East Multnomah County Transportation Committee Project Briefing

Department of Community Services
Transportation Division

August 17, 2020

Project Overview

Purpose and Need



Seismic Resiliency and Emergency Response



Regional Recovery and Rebuilding



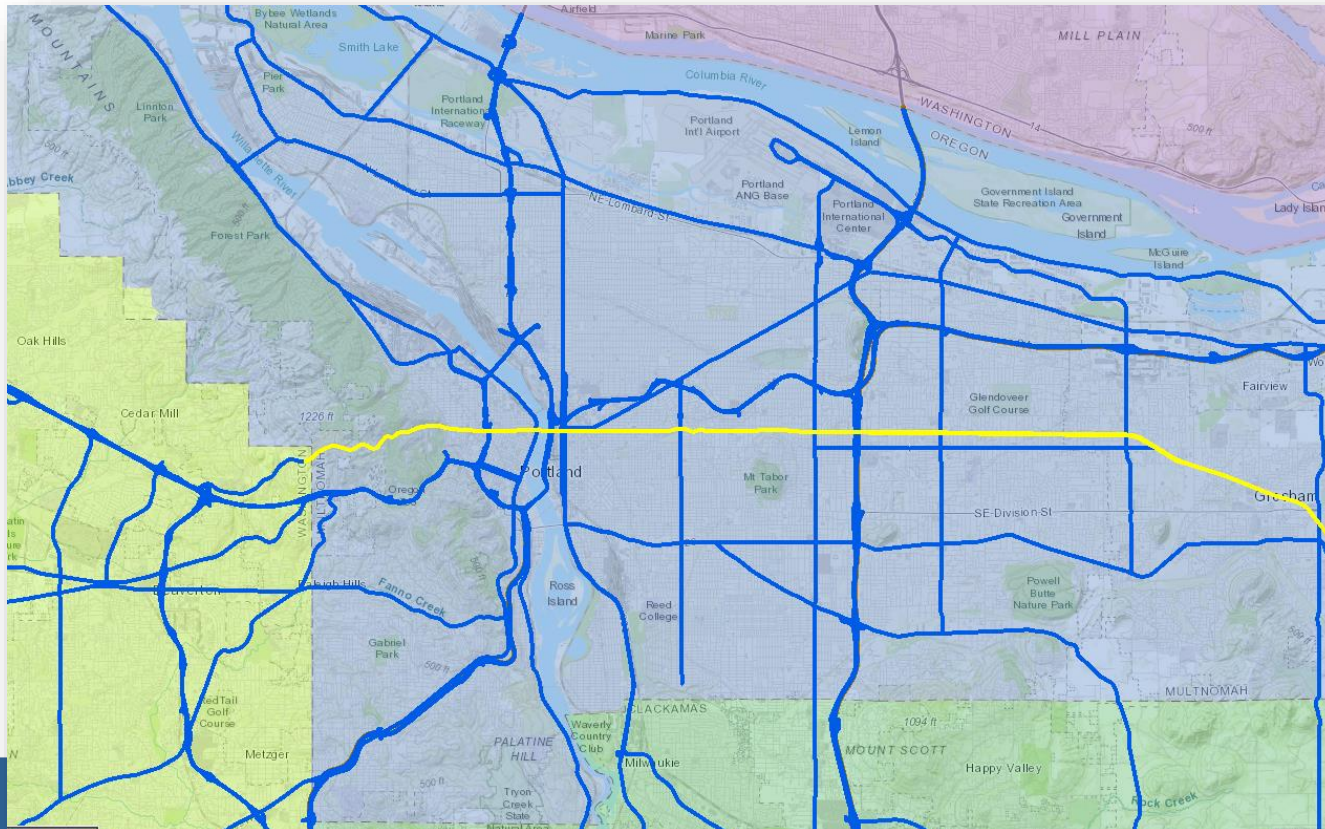
Long-term Use



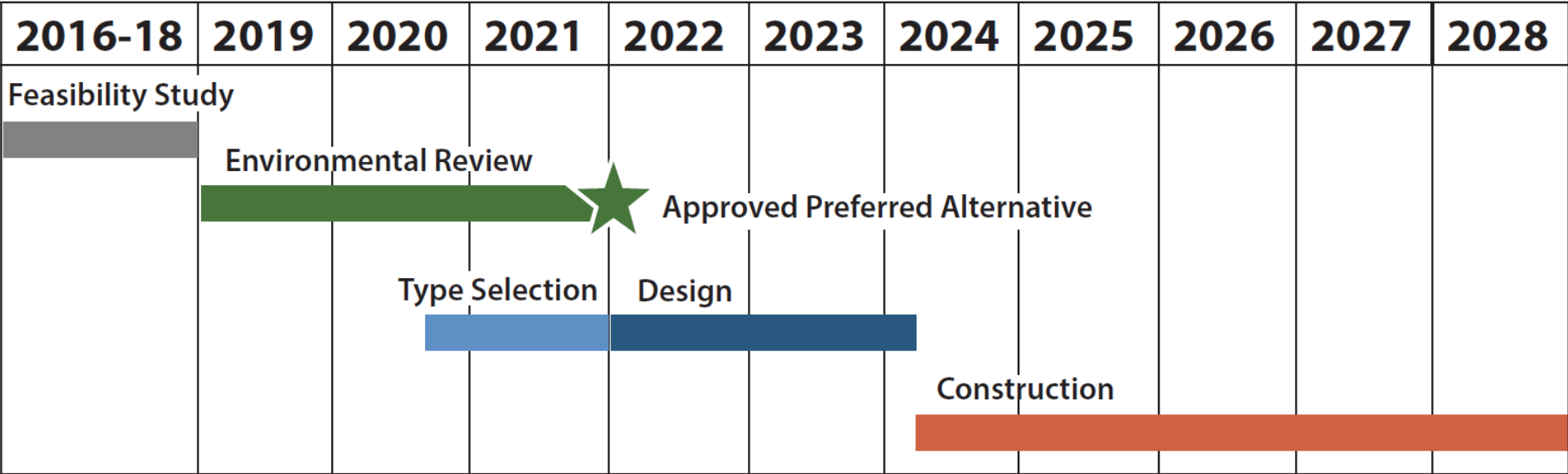
Project Overview

Why Burnside?

- Regional lifeline route
- Runs almost 19 miles, from Washington County to Mount Hood Highway (US 26)
- Located in the heart of downtown, it is a key link across the Willamette River
- Fewest risks of having overpasses collapse on it during an earthquake



Project Timeline



Funding

- Metro Transportation Bond – Get Moving 2020
- Multnomah County Vehicle Registration Fee



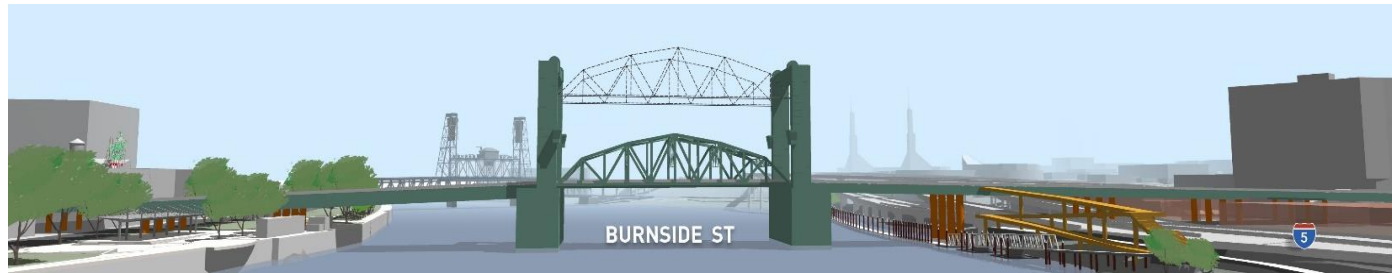
Range of Alternatives



**Enhanced
Seismic Retrofit**



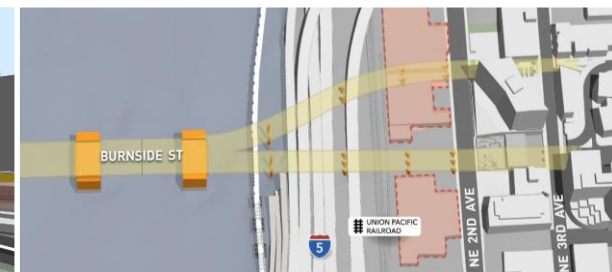
**Replacement
Short Span
(Bascule or Lift)**



**Replacement
Long Span
(Bascule or Lift)**



**Replacement
Couch Extension
(Bascule or Lift)**

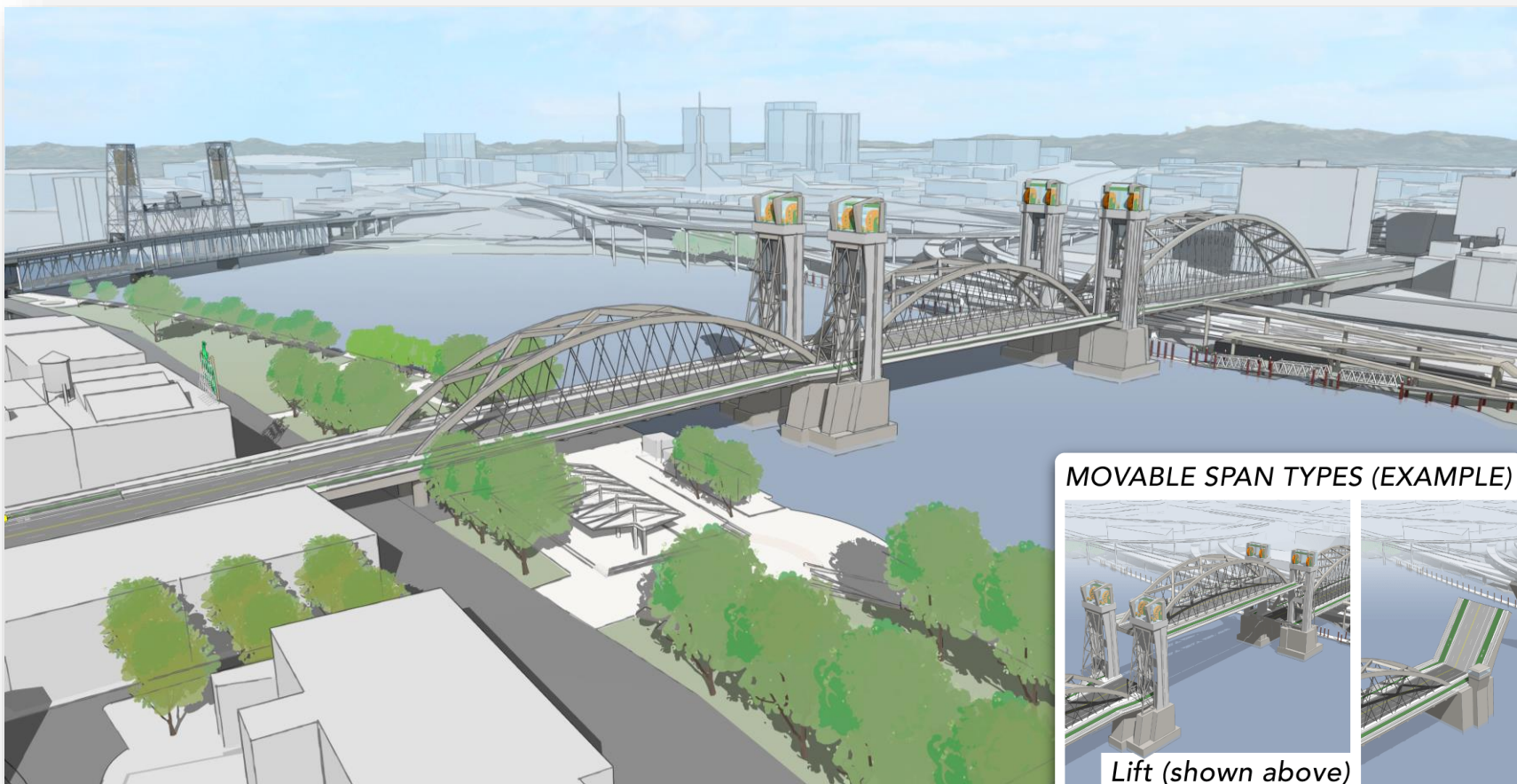


(Concept Images)

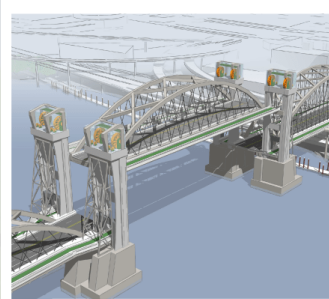
Community Task Force Recommendation

Preferred Alternative

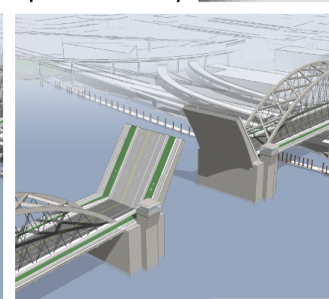
Replacement Long Span



MOVABLE SPAN TYPES (EXAMPLE)



Lift (shown above)



Bascule

The example image above is just one variation of what a long span bridge could look like.

Community Task Force Recommendation

Preferred Alternative: Replacement – Long Span

What we heard from the CTF:



Best for seismic resiliency



Least cost alternative (\$825 million compared to \$950 million)



Enhances/preserves community resources



Improved safety for bicyclists, pedestrians and other users



Least impacts to natural resources



Explore ways to mitigate the long span's impacts on views



Replacement, Movable: Long Span

BRIDGE TYPE OPTION: Tied Arch examples



Hastings Bridge, Minnesota



Torikai Ohas Bridge, Japan



Siuslaw River Bridge, Oregon



Tacony-Palmyra Bridge, Pennsylvania



Gateway Bridge, Michigan

BRIDGE TYPE OPTION: Cable Stayed examples



Indian River Inlet Bridge, Delaware



Chongqing Expressway Bridge, Oregon



Copper River Bridge, South Carolina

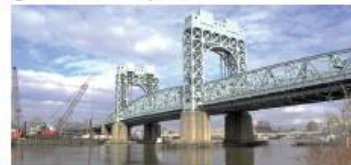


Tilikum Crossing Bridge, Oregon

BRIDGE TYPE OPTION: Through Truss examples



Main Street Bridge, Florida



Triborough (Harlem River) Bridge, New York



Tower Bridge, CA



Broadway Bridge, Oregon



Hawthorne Bridge, Oregon

MOVABLE SPAN: Bascule examples



South Park Bridge, Washington



Harbor Bridge, Spain



New Johnson St. Bridge, Canada



Woodrow Wilson Bridge, Maryland

MOVABLE SPAN: Vertical Lift examples



Teregganu Bridge, Malaysia



Fore River Bridge, Massachusetts



Pont Jacques Chaban, Delmas



Manchester Millenium Bridge, England

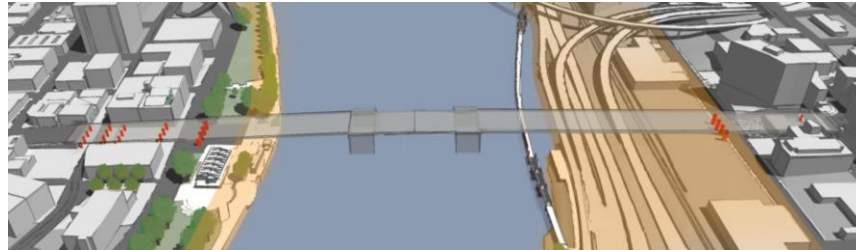




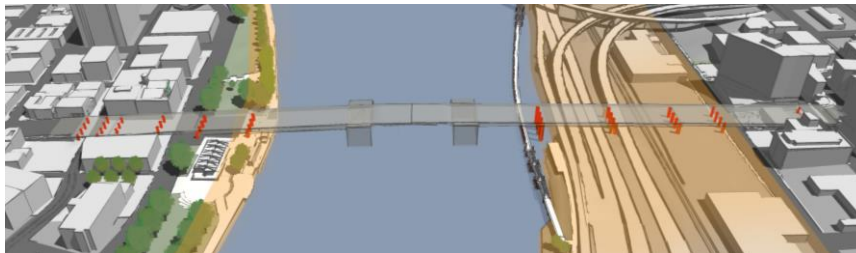
Best for Seismic Resiliency

Locating fewer columns in liquefiable soils gives it the least risk from soil movement during an earthquake

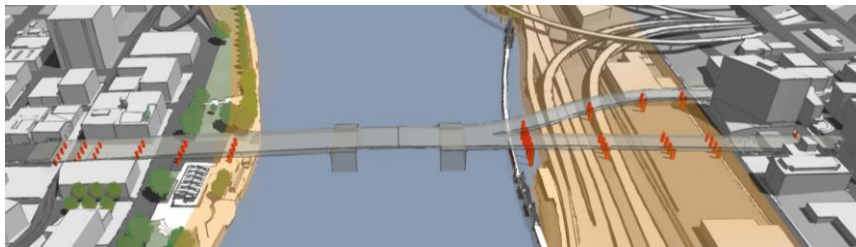
**Replacement
Long Span**



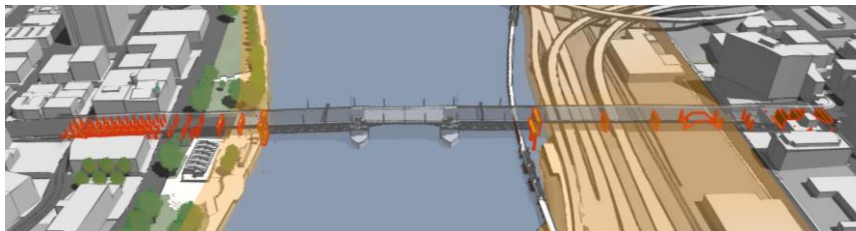
**Replacement
Short Span**



**Replacement
Couch Extension**



**Enhanced
Seismic Retrofit**





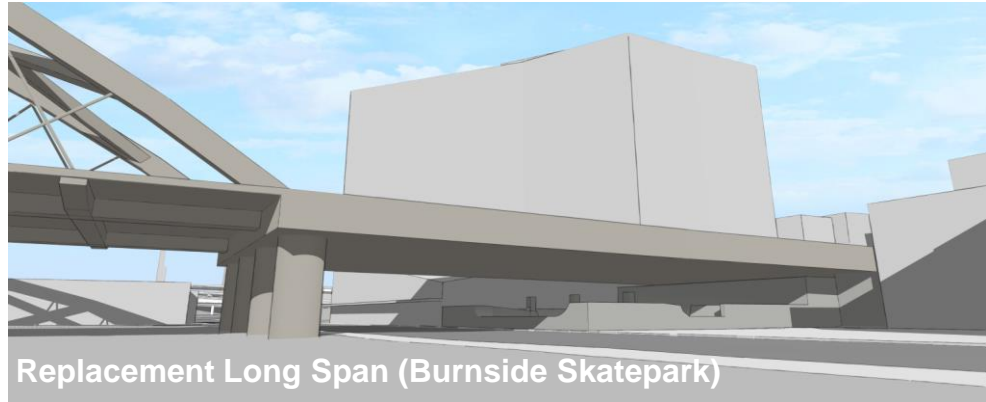
Enhances/Preserves Community



Reduced number of columns enhances use of Waterfront Park and preserves the Burnside Skatepark



Replacement Long Span (Waterfront Park)



Replacement Long Span (Burnside Skatepark)



Replacement Short Span and Couch Ext.
(Waterfront Park)



Enhanced Seismic Retrofit
(Waterfront Park)

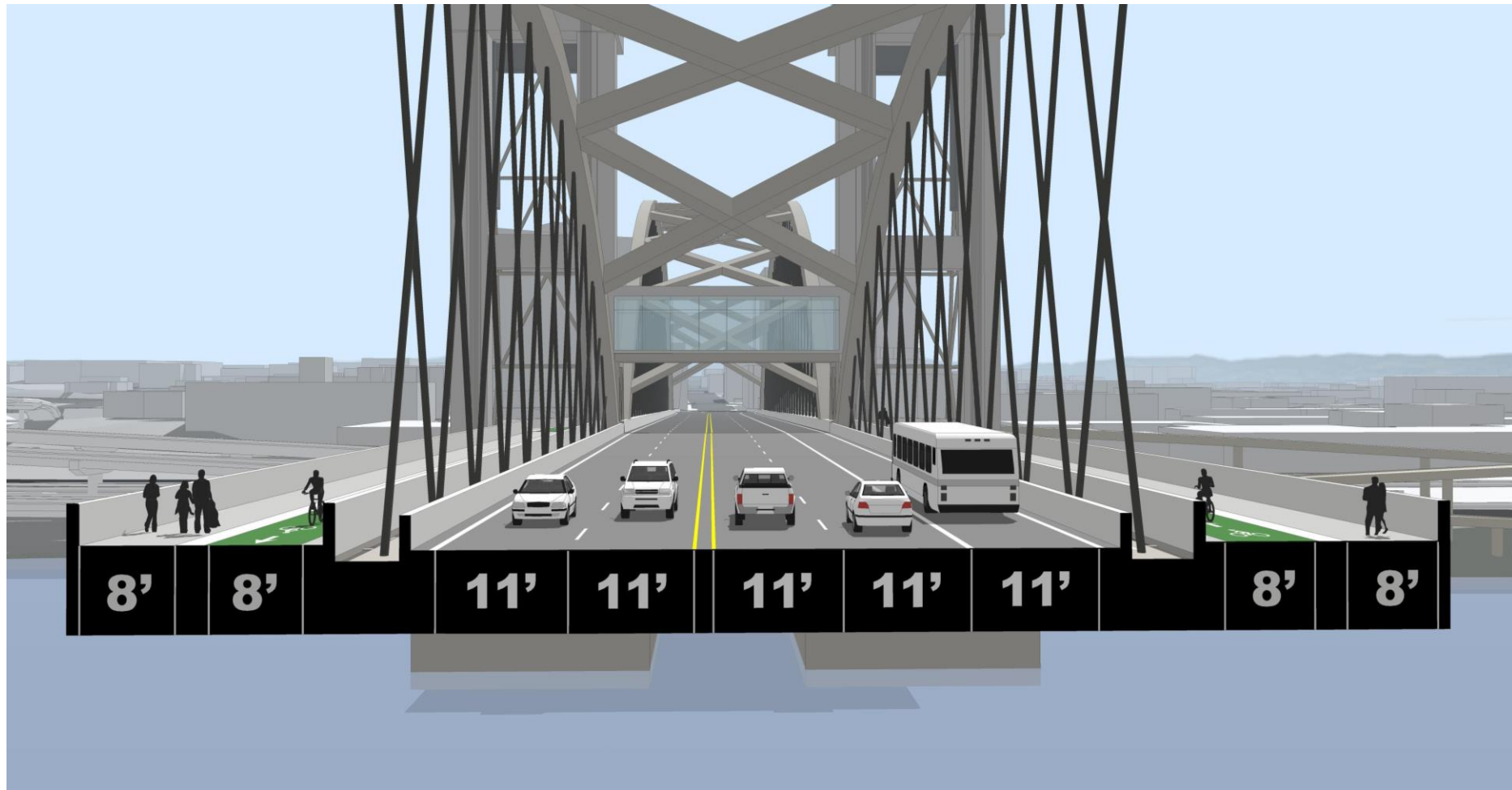


(Concept Images)



Improved Safety

Additional deck width over the river provides a safer facility for bicyclists, pedestrians and other users



(Concept Image)



Impacts on Views

CTF Concern: Explore ways to mitigate the long span's impacts on views



View from south sidewalk (Arch Concept)



View from south sidewalk (Cable Stayed Concept)



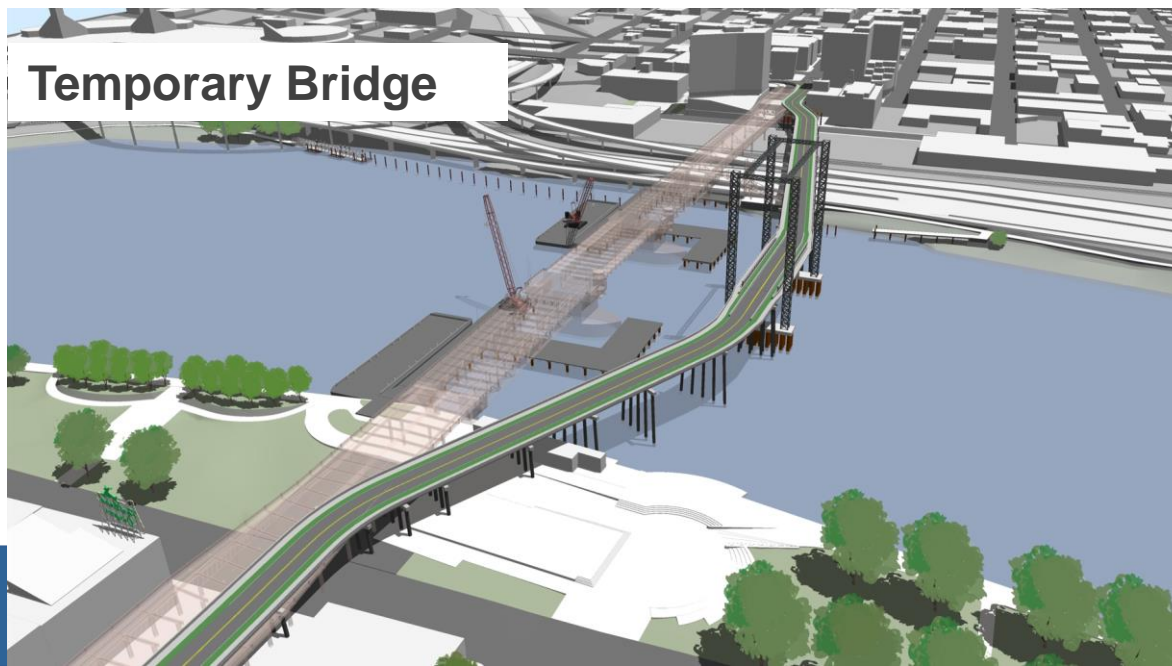
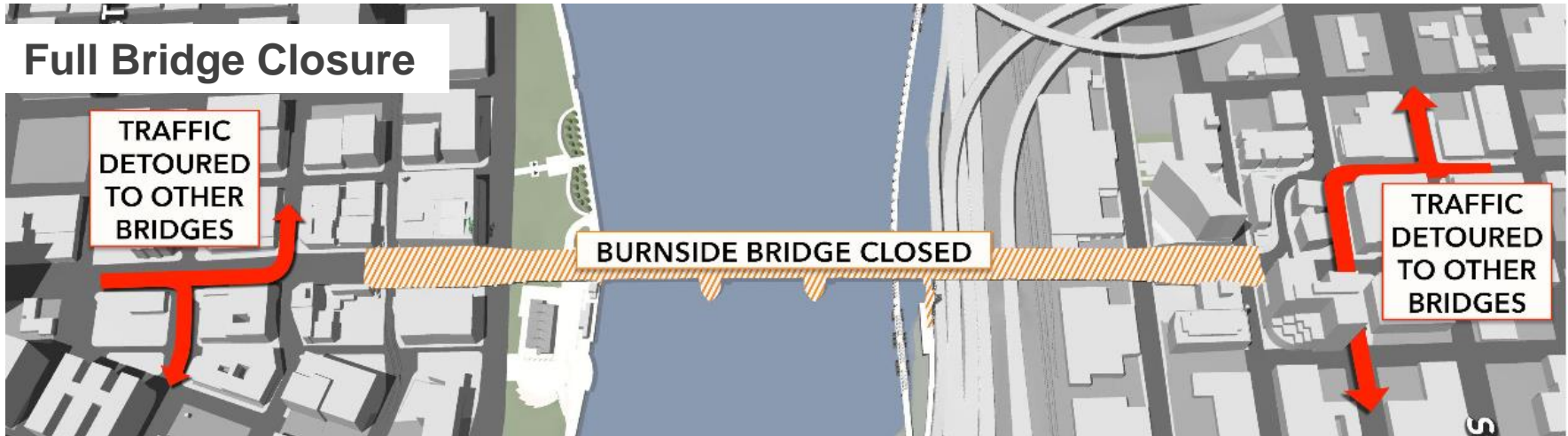
View from north sidewalk near midspan (Arch Concept)



View from north sidewalk near midspan (Cable Stayed Concept)

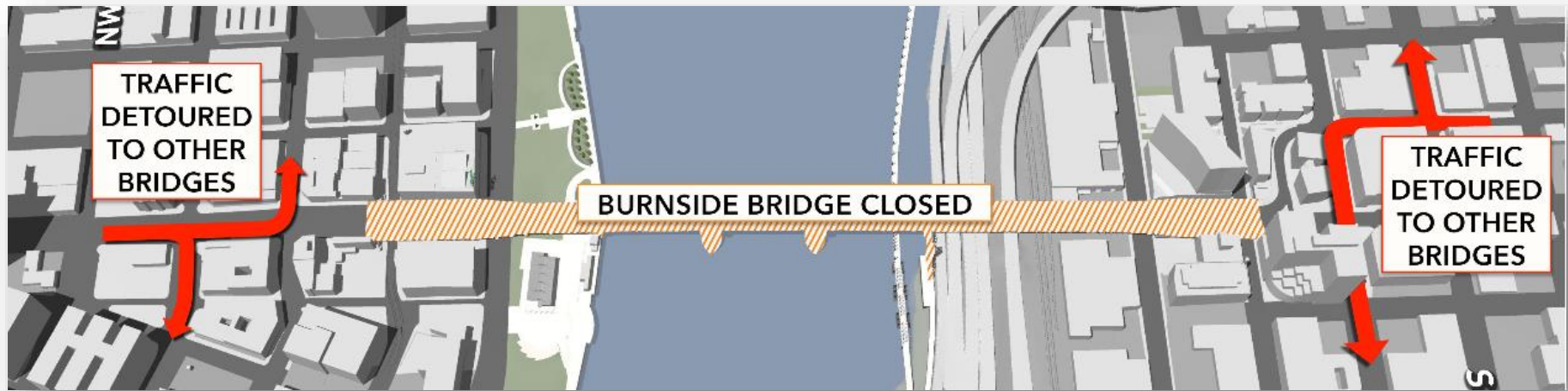


Traffic Options During Construction



Preferred Alternative

Traffic During Construction: Full Bridge Closure



What we heard:

- **Least cost** – the temporary bridge would add \$90 million to the project cost
- **Shortest construction duration** – the temporary bridge would add 1.5 years to construction duration, extending duration of impacts to surrounding area including parks, residents, recreational activities and transportation
- Least in-water construction which **reduces impact to natural resources**





**EARTHQUAKE
READY**
BURNSIDE BRIDGE

- **Drivers:** ~2-4 minute delay
- **Bicyclists:** ~5-12 minute delay
- **Pedestrians:** ~10-18 minute delay
- **Buses:** ~5 min travel delay

The analysis evaluated the following temporary bridge types:

- All modes
- Bike/Ped/Transit only
- Bike/Ped only



Summer Outreach

- Online Open House
- Briefings
- Virtual Tours and Animations
- Diverse Outreach (Community Engagement Liaisons Program)



Make your voice heard – we need your feedback!



Online Open House and Survey
August 3rd to 31st

BurnsideBridge.participate.online



Upcoming Meetings & Next Steps

- **August: Public Outreach on recommended PA**
- September: CTF & SASG
- October 2: Policy Group PA Recommendation Approval
- October: CTF – Kickoff Type Selection Phase
- January 2021: Draft Environmental Impact Statement Publication
- Jan-April 2021: Type Selection Outreach
- May 2021: Type Selection Phase Complete
- Late 2021: Final EIS and Record of Decision



Questions?

