



Portland Freight Advisory Committee

Department of Community Services
Transportation Division

July 9, 2020

Project Overview

Purpose and Need



Seismic Resiliency and Emergency Response



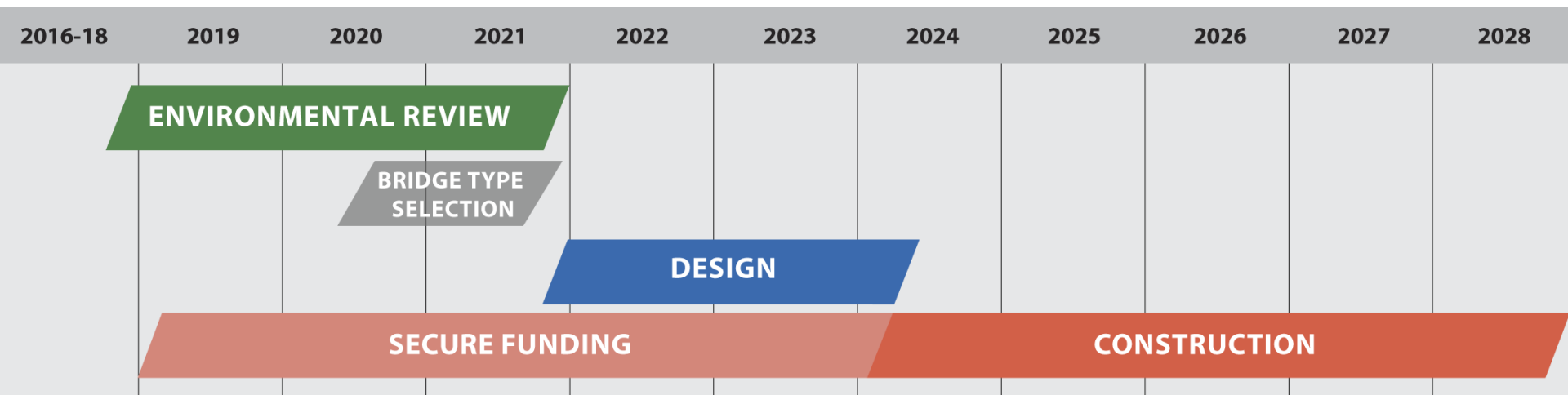
Regional Recovery and Rebuilding



Long-term Use

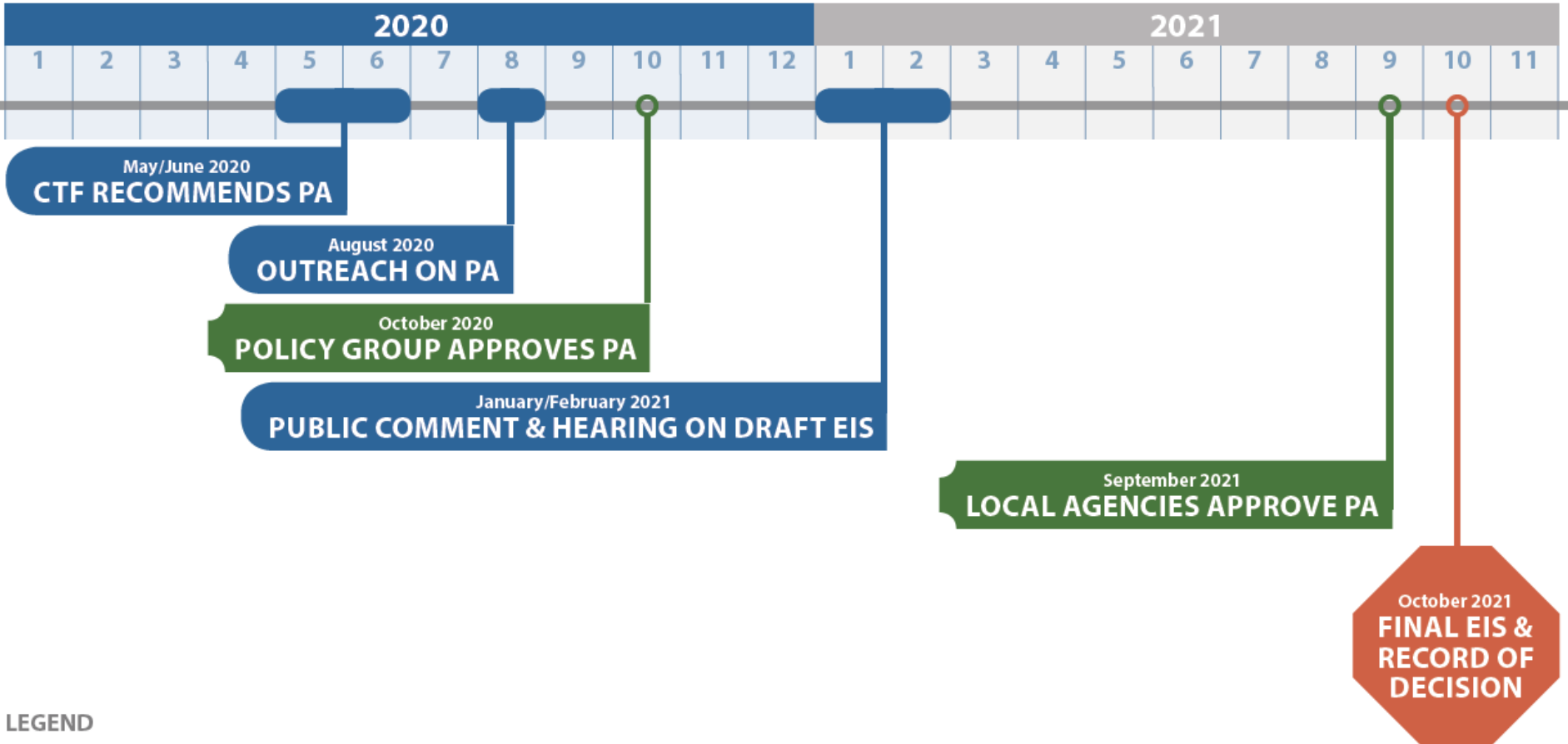


Project Timeline



Project Timeline

Environmental Review Phase – Key Milestones

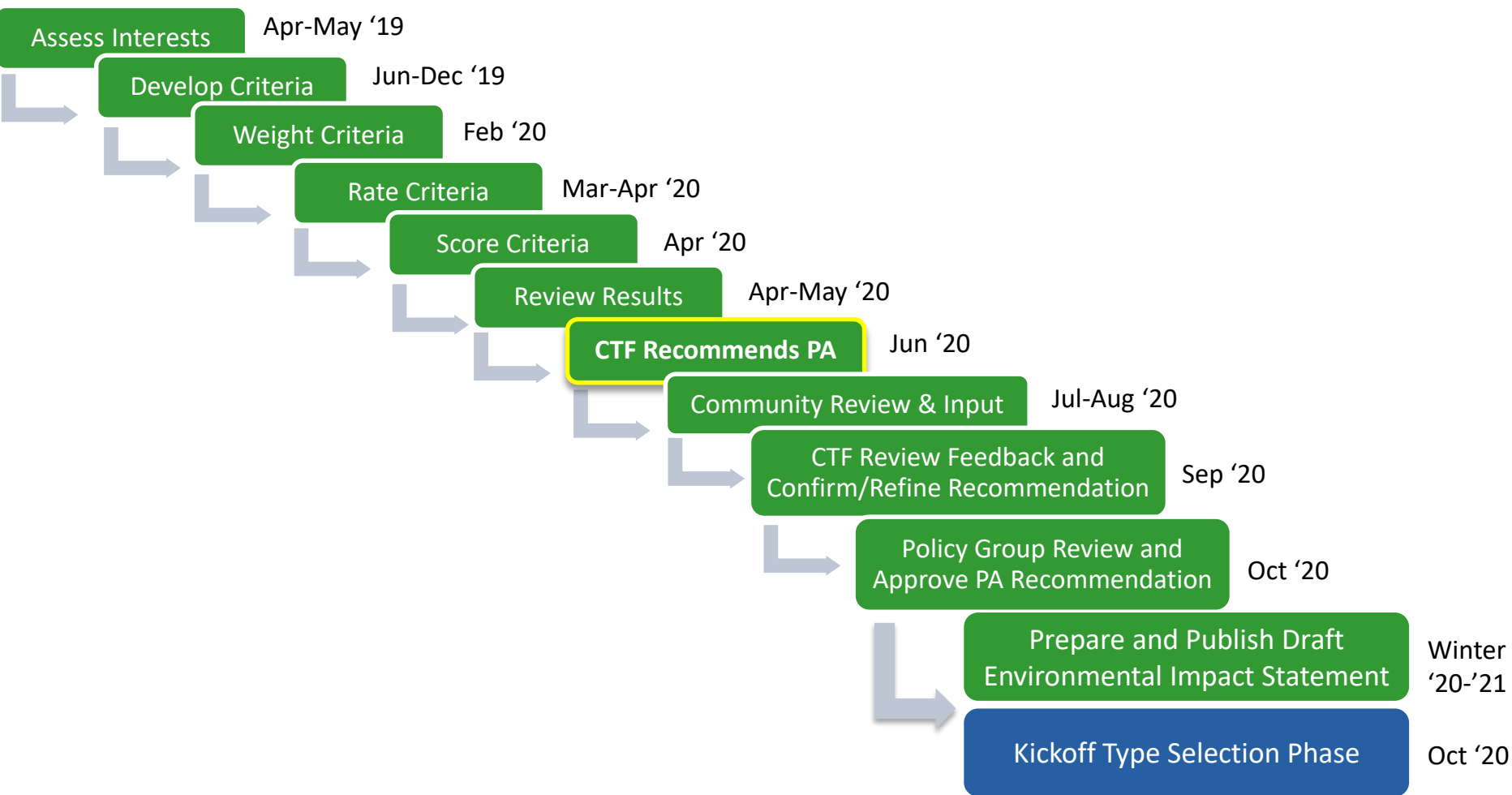


LEGEND
 CTF: Community Task Force
 PA: Preferred Alternative
 EIS: Environmental Impact Statement



Process Overview

STEPS IN GETTING TO A PREFERRED ALTERNATIVE (PA)



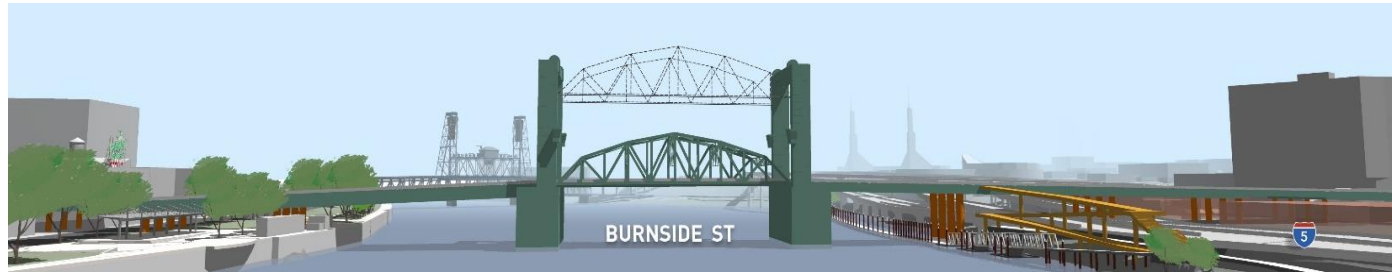
Range of Alternatives



**Enhanced
Seismic Retrofit**



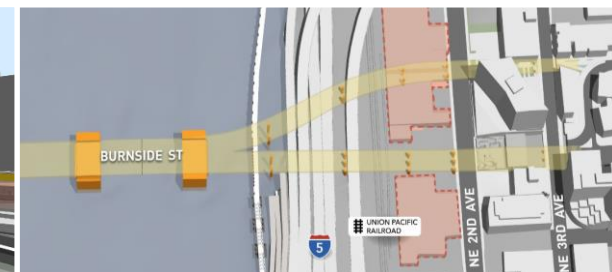
**Replacement
Short Span
(Bascule or Lift)**



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



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

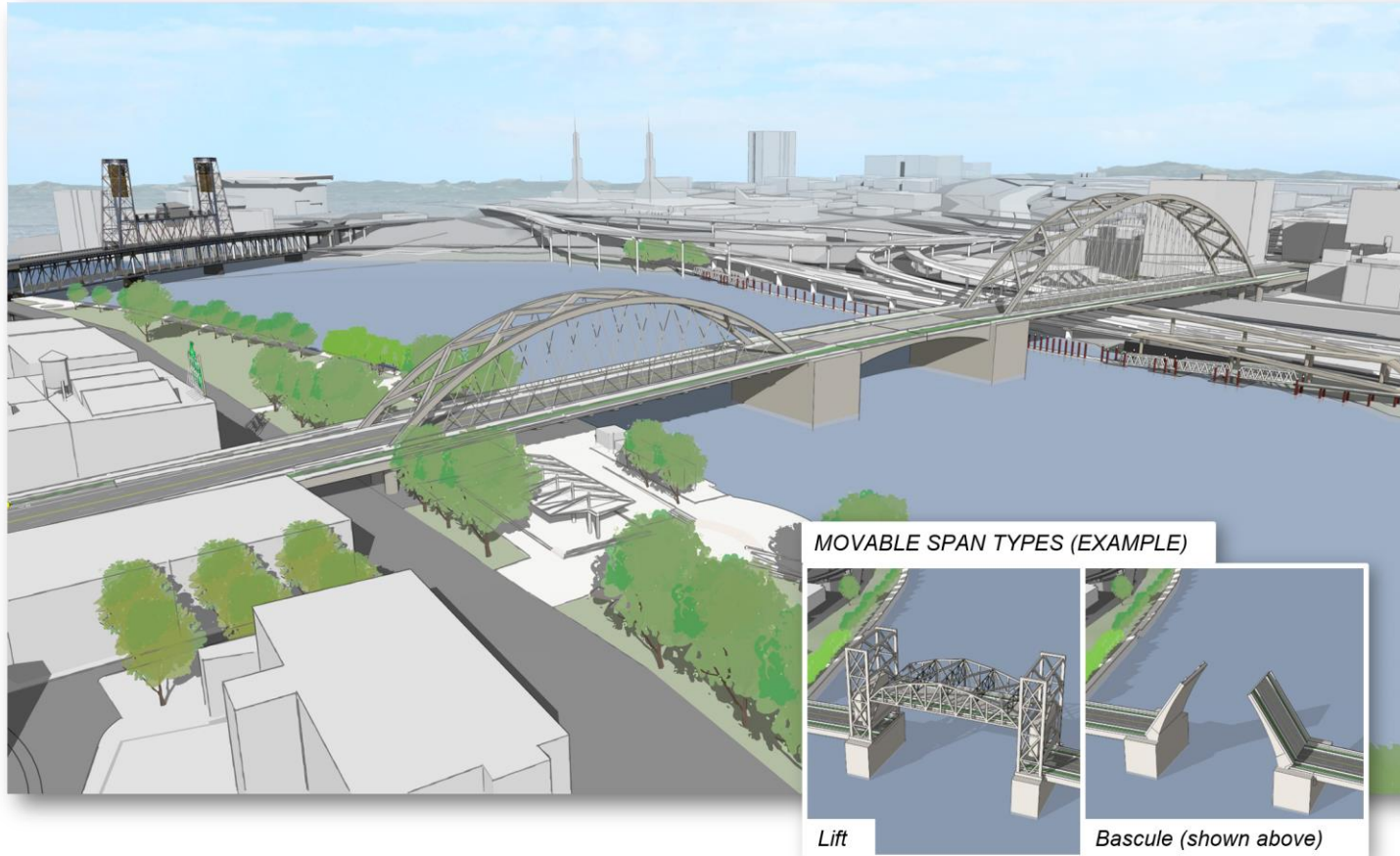


(Concept Images)

CTF Recommendation

Preferred Alternative

Replacement, Movable: Long Span Alternative



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



CTF Recommendation

Preferred Alternative: Replacement – Long Span

What we heard from CTF:



Best for seismic resiliency - locating fewer columns in liquefiable soils gives it the least risk from soil movement during an earthquake



It is the lowest cost of four build alternatives (\$825 million compared to as high as \$950 million for the most expensive option)



The reduced number of columns also benefits Waterfront Park users, crime prevention, and preservation of the Burnside Skatepark



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



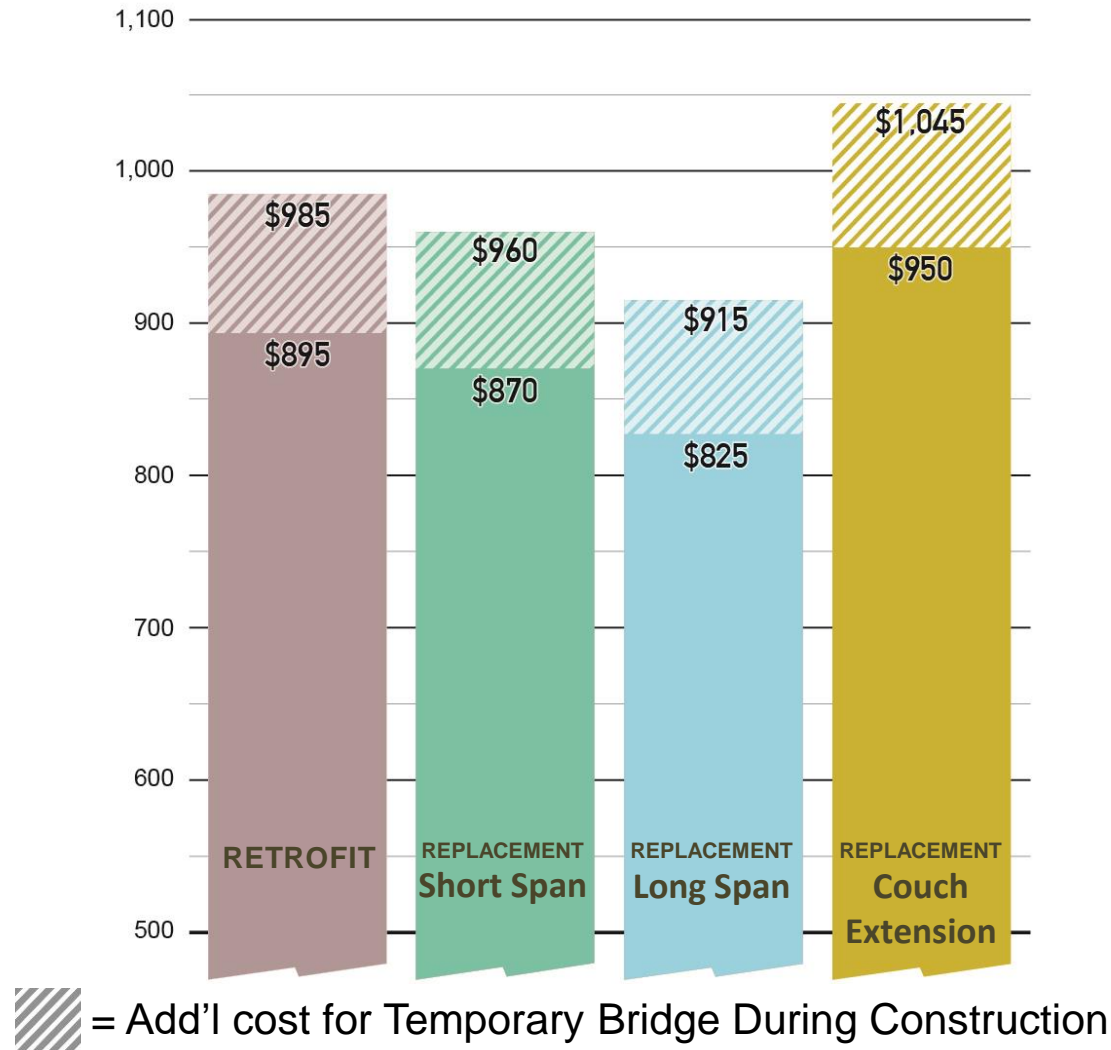
Reduced impacts to natural resources due to fewer columns in the water



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

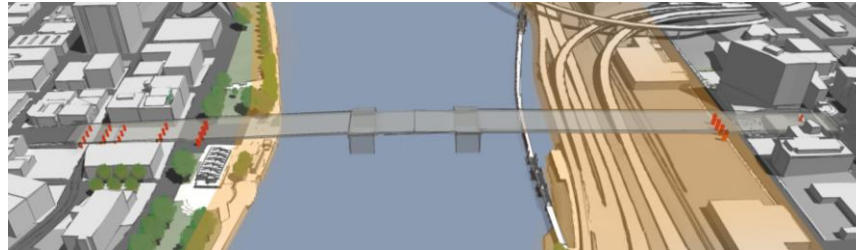


Project Cost by Alternative

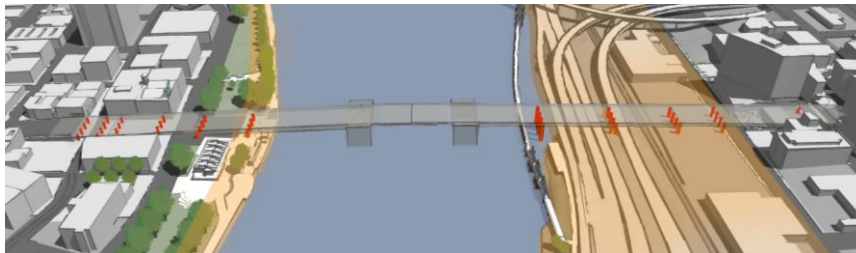


Columns in dangerous soil

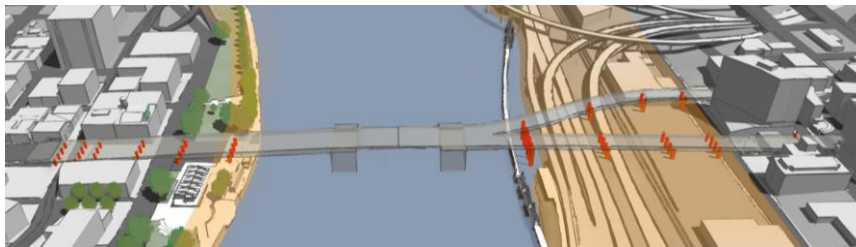
Replacement
Long Span



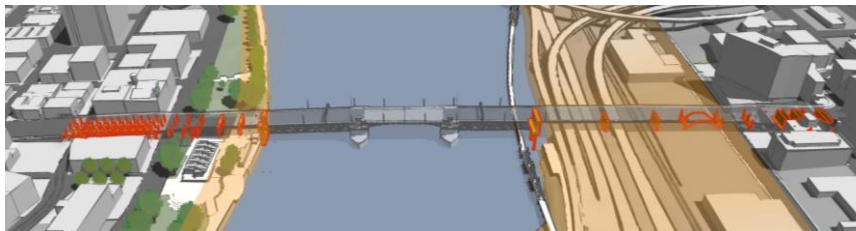
Replacement
Short Span



Replacement
Couch Extension



Enhanced
Seismic Retrofit



Less columns in parks



Replacement Long Span



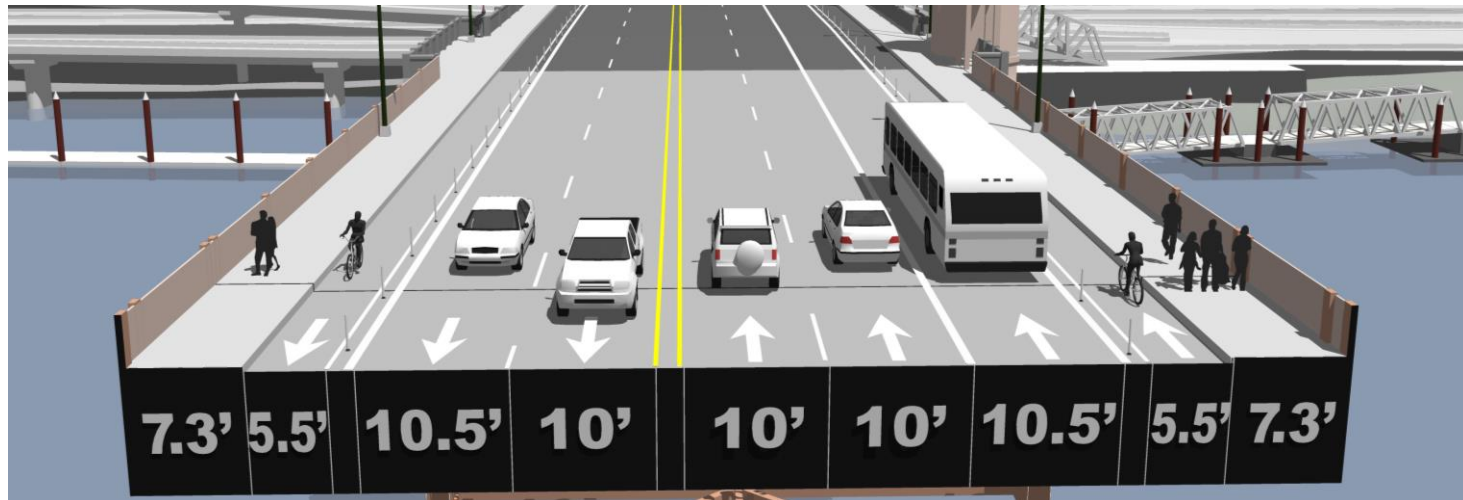
Replacement Short Span and Couch Ext.



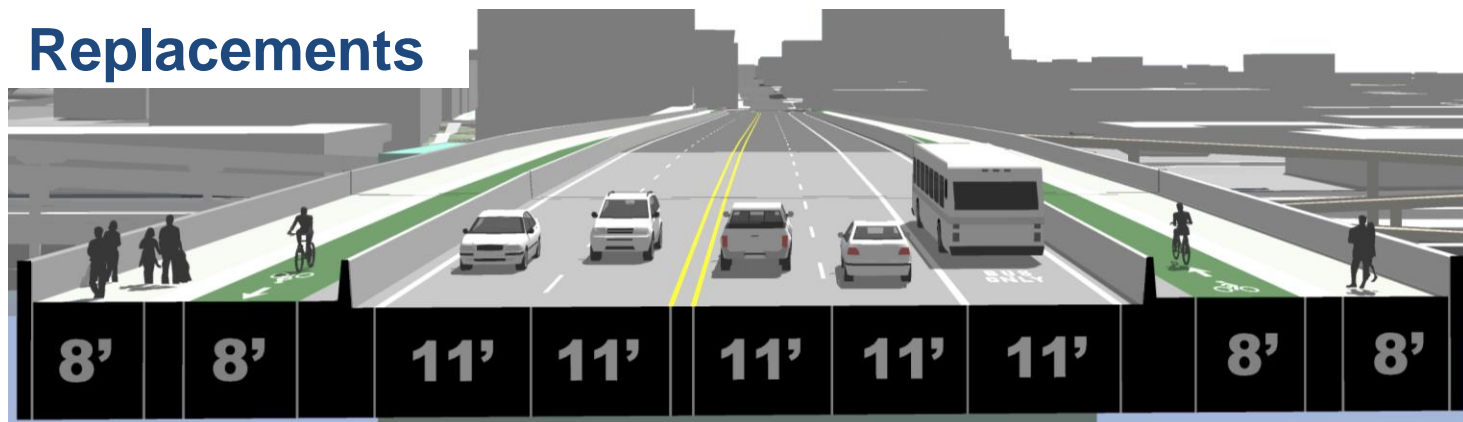
Enhanced Seismic Retrofit

Bridge Width

Retrofit



Replacements



Freight and Streetcar Considerations



- With no lane reductions and a slight increase in lane widths, freight access (primarily local deliveries) is not compromised
- Slight straightening of Couch St “S” curve horizontal alignment
- Westbound travel:
 - Straightening includes a small right of way acquisition (at bridge end) to fit future Streetcar within outside traffic lane
- Eastbound travel:
 - No change in alignment

Replacement, Movable: Long Span

Bridge Type Examples

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



Copper River Bridge



Tilikum Crossing Bridge, Oregon

BRIDGE TYPE OPTION: Through Truss examples



Main Street Bridge, Florida



Triboro (Harlem River) Bridge



Tower Bridge, CA



Broadway Bridge



Hawthorn Bridge

MOVABLE SPAN: Bascule examples



South Park Bridge



Harbor Bridge, Spain

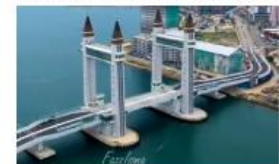


New Johnson St. Bridge, Canada



Woodrow Wilson Bridge

MOVABLE SPAN: Vertical Lift examples



Tereganu Bridge



Fore River Bridge



Pont Jacques Chaban - Delmas



Manchester Millenium Bridge, England

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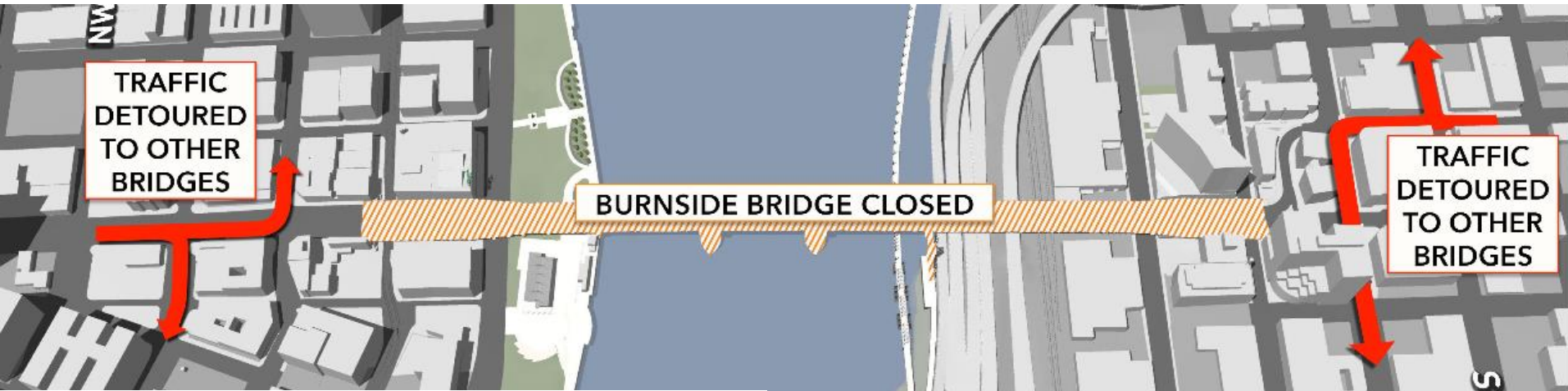
BurnsideBridge.org

[f](https://www.facebook.com/MultCoBridges) [i](https://www.instagram.com/MultCoBridges) [t](https://www.twitter.com/MultCoBridges) @MultCoBridges, #ReadyBurnside

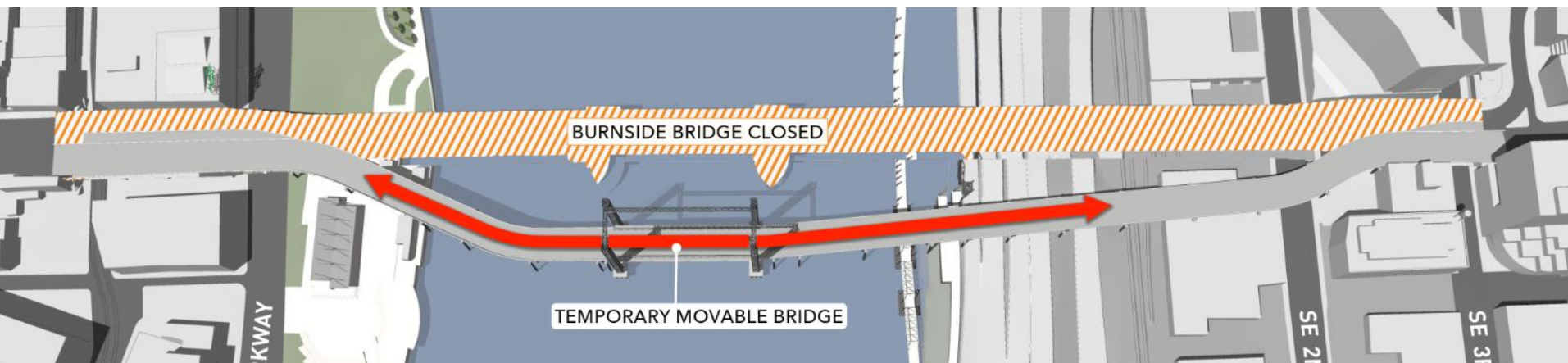
Range of Alternatives

Traffic Options During Construction

Full Bridge Closure



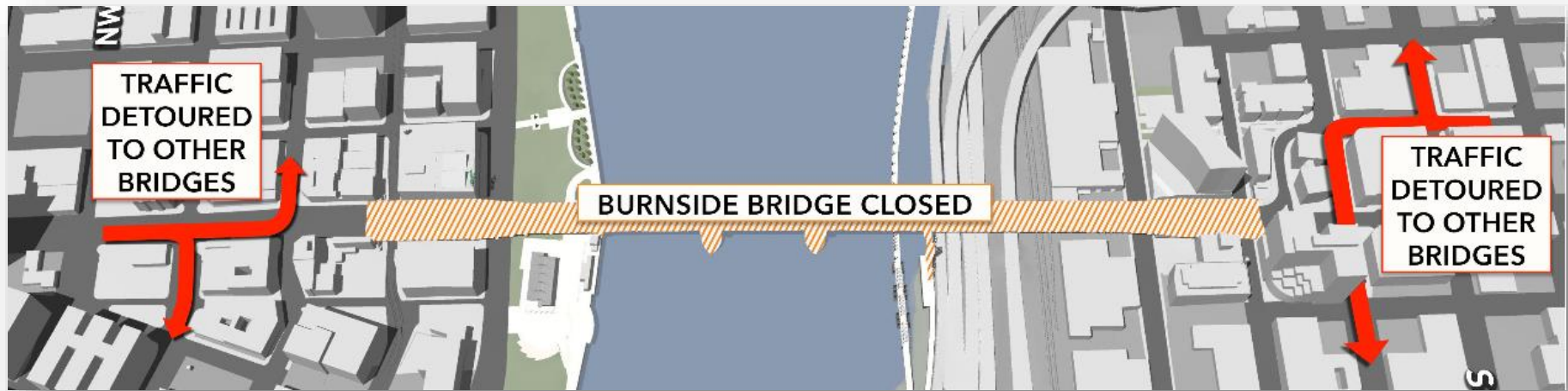
Temporary Bridge



CTF Recommendation

Preferred Alternative

Traffic During Construction: Full Bridge Closure

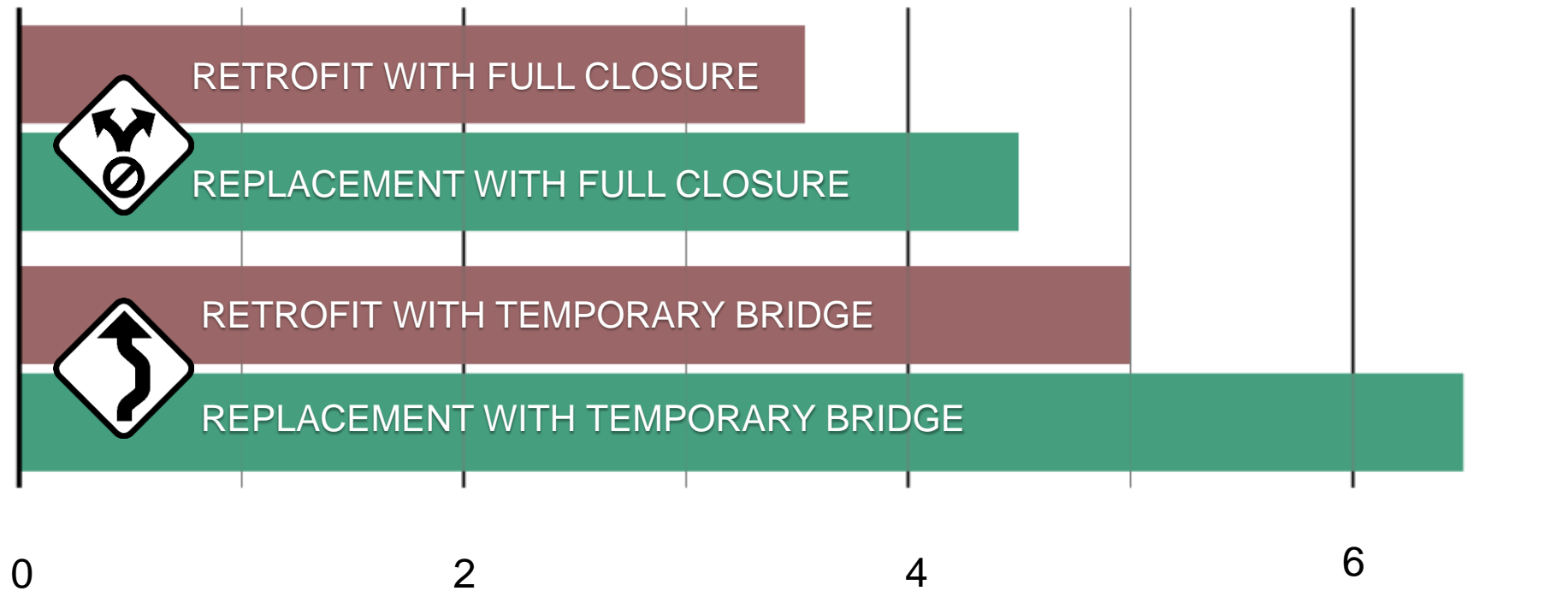


What we heard from CTF:

- **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**



Construction Duration



A vehicular temporary bridge would **reduce driver travel time by approximately ~2-4 minutes** and **add \$90 million to project cost**

Depending on the origin-destination route driven (12 routes analyzed):

- Daily Travel Delay without a Temporary Bridge ranges from +3 to +10.5 minutes
- Daily Travel Delay with a Temporary Bridge ranges from +1 to +7.5 minutes



The CTF did not feel the travel time savings justified the cost and added construction duration

Summer Outreach

- Online Open House
- Briefings
- Virtual Tours and Animations
- Diverse Outreach (CEL Program)



Upcoming Meetings & Next Steps

- July: MultCo Board of County Commissioners briefing
- **August: Public Outreach on recommended PA**
- September: CTF & SASG
- October 2: Policy Group PA Recommendation Approval
- October: CTF – Kickoff Type Selection Phase
- January: Draft Environmental Impact Statement Publication



Questions?

