



# MultCo BPCAC *Briefing*

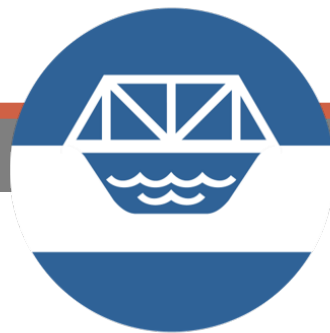
Multnomah County  
Transportation Division  
Department of Community Services  
November 10, 2021

# Funding Context

Must achieve an affordable Project to be viable

- Costs considerations have changed over the last year
  - Failure of the 2020 Regional Transportation Bond Measure which would have allocated \$150 million to the project
  - High competition for funding of large infrastructure projects
  - Increasing labor and materials costs have emerged from the COVID-19 pandemic
- Despite funding challenges, the need for an earthquake ready bridge to serve the Portland region remains
- Seeking cost saving refinements to help ensure this project can be fully funded and built





# Preferred Alternative Refinements



## Guiding Principles

- Moving forward with recommended Long Span Replacement Alternative
- Ensure the Purpose and Need is met
  - Seismic resiliency
  - Emergency response and regional recovery
  - Long term transportation needs
- Maintain County's equity lens

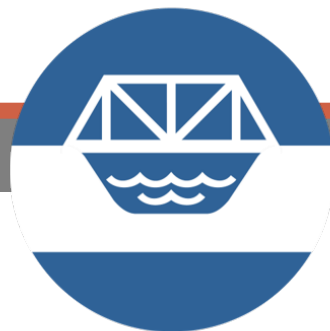


# Preferred Alternative Refinements



Revised Preferred Alternative Refinements	Why?	Cost Savings
<b>1. Bridge width:</b> Reduced by approx. 26 feet	<ul style="list-style-type: none"> <li>• Cost savings</li> </ul>	<b>\$140 – 165M</b>
<b>2. Vehicle Lanes:</b> Reduced from 5 to 4 vehicular lanes (4 Lane configurations under consideration)	<ul style="list-style-type: none"> <li>• Cost savings</li> </ul>	
<b>3. Bike / Ped Space:</b> Reduced from 20' to between 14' - 17'	<ul style="list-style-type: none"> <li>• Cost savings</li> </ul>	
<b>4. West Approach bridge type:</b> Reduced to only Girder type	<ul style="list-style-type: none"> <li>• Regulatory permitting</li> <li>• Cost savings</li> </ul>	<b>\$20 - 40M</b>
<b>5. Movable span bridge type:</b> Select either Lift or Bascule type	<ul style="list-style-type: none"> <li>• Regulatory permitting</li> <li>• Community preference</li> <li>• Cost savings</li> </ul>	<b>\$25 - 35M</b>
<b>6. East Span Bridge Type:</b> Dismiss Truss (Tied Arch and Cable Stayed types advanced to Design Phase)	<ul style="list-style-type: none"> <li>• Community preference</li> </ul>	<b>TBD</b>



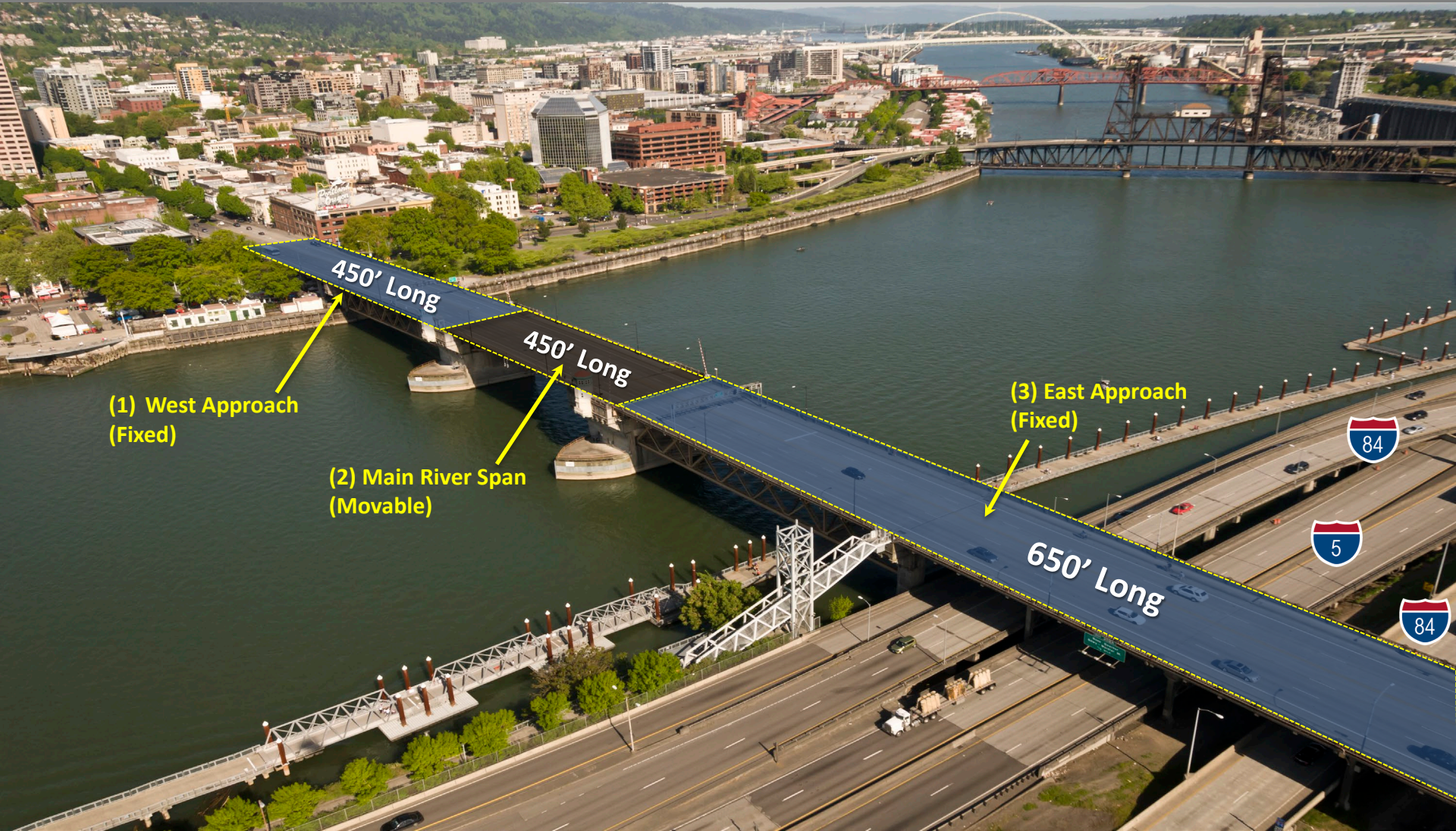


# West Approach Bridge Type



# Long-span Alternative

“Three bridges in one”



# Long-span Approach Options in the DEIS

Replacement Long Span is the Recommended Preferred Alternative

*Tied Arch*



*Cable Stayed*



*Girder (West Approach only)*





# West Approach Bridge Type

## Existing Girder Bridge



# West Approach Bridge Type

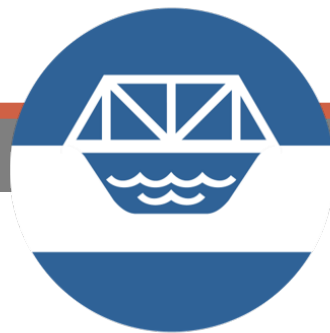
Recommendation: West Approach Girder for all Bridge Compositions

**\$20 - \$40M  
Savings**



- Revised initial Girder concept to provide higher vertical clearance and more open views in Waterfront Park
- Meets permitting requirements and has least environmental impacts
- Provides highest cost savings of the options studied
- Has support from key stakeholder groups





# Movable Span Bridge Type



# Movable Span Bridge Type

Looking NE from Waterfront Park



*Existing Condition (Bascule)*



# Movable Span Bridge Type

Looking NE from Waterfront Park (*preliminary concept*)

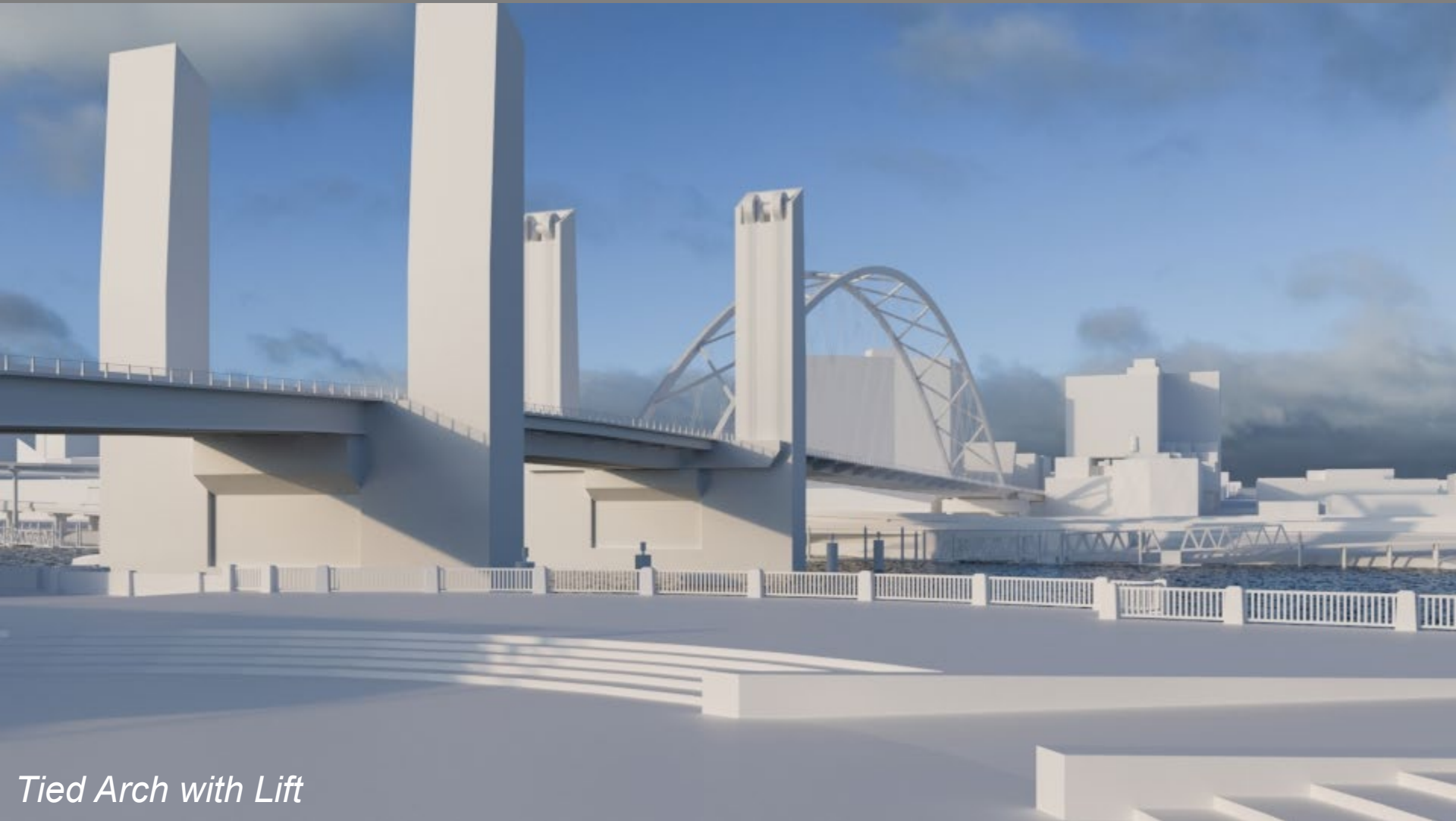


*Tied Arch with Bascule*



# Movable Span Bridge Type

Looking NE from Waterfront Park (*preliminary concept*)

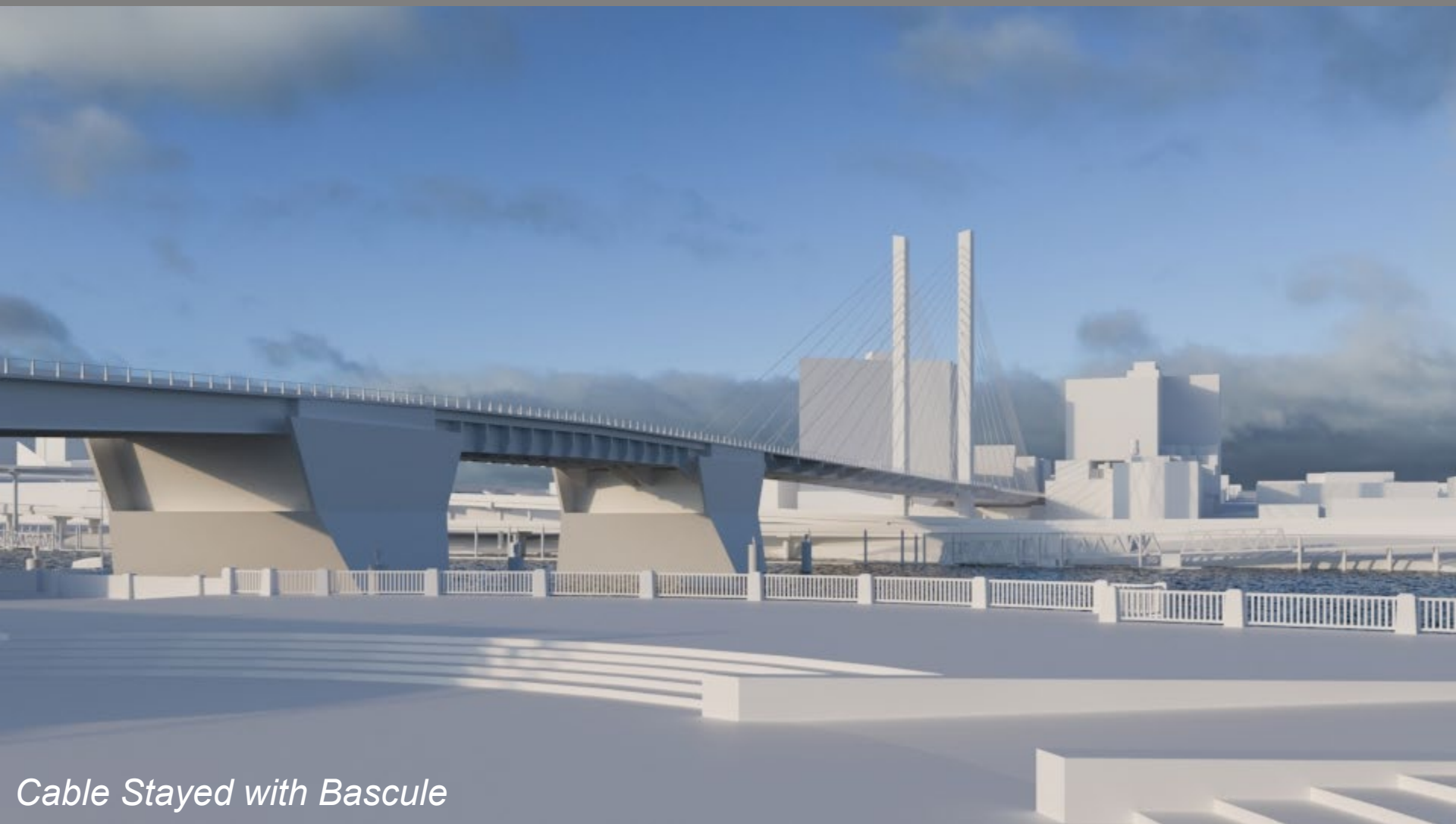


*Tied Arch with Lift*



# Movable Span Bridge Type

Looking NE from Waterfront Park (*preliminary concept*)



*Cable Stayed with Bascule*



# Movable Span Bridge Type

Looking NE from Waterfront Park (*preliminary concept*)



*Cable Stayed with Lift*





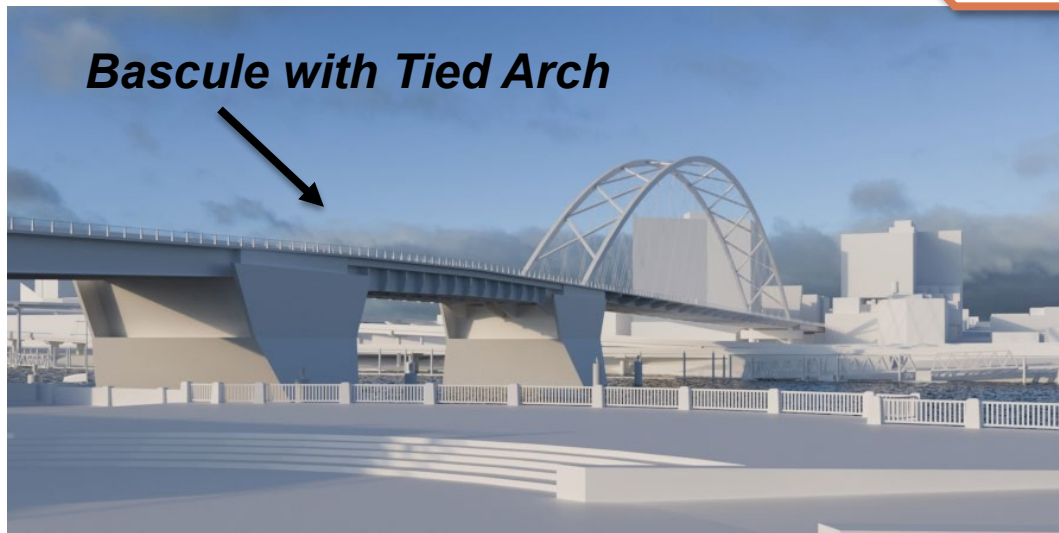
# Movable Span Bridge Type

Recommendation: Bascule Movable Bridge

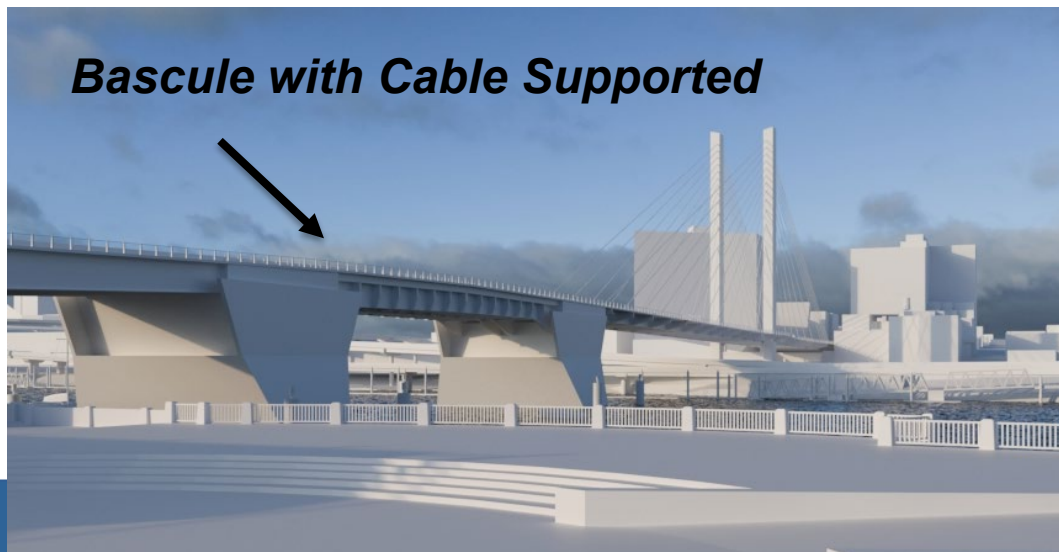
\$25 - \$35M  
Savings

- Meets permitting requirements and has least environmental impacts
- Provides highest cost savings of the options studied
- Has support from key stakeholder groups

*Bascule with Tied Arch*

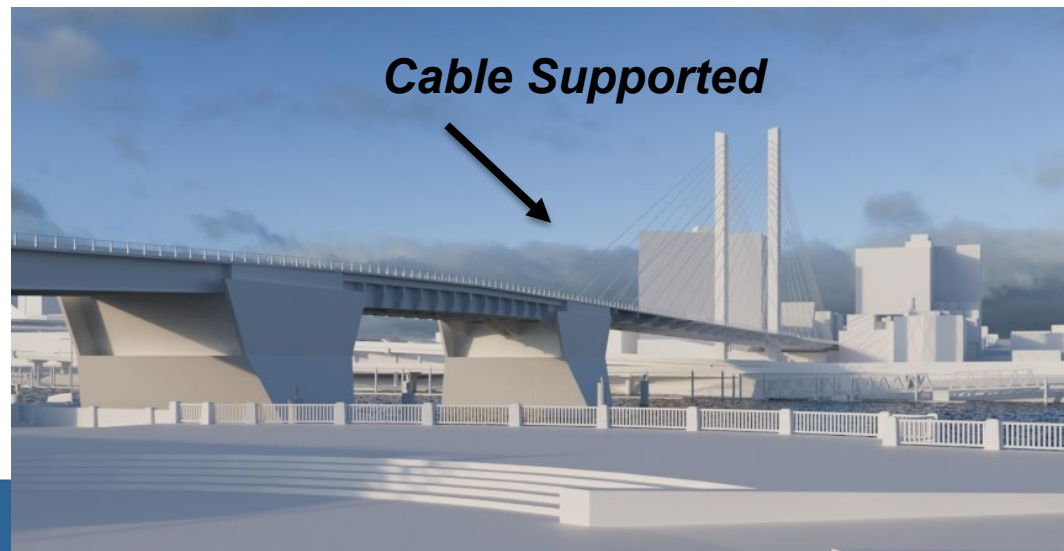
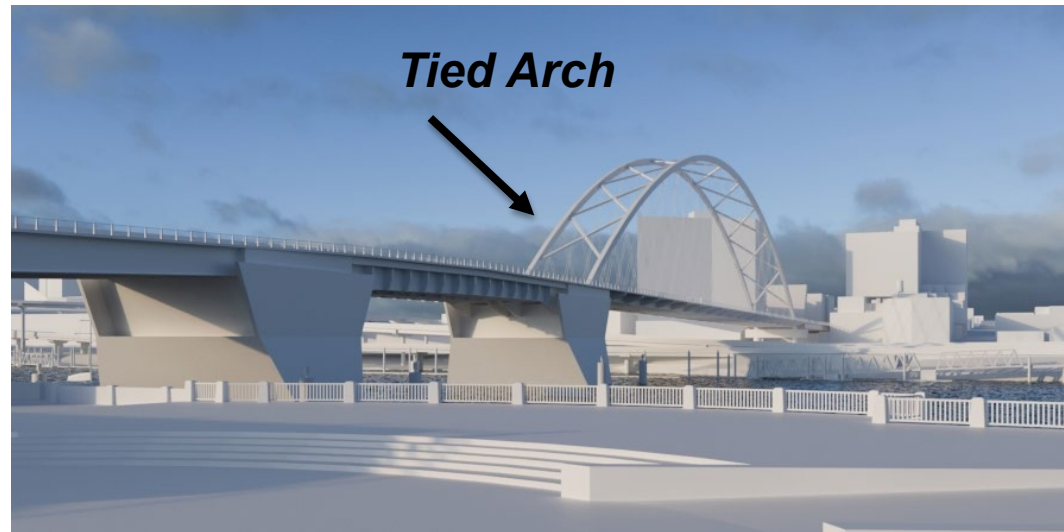


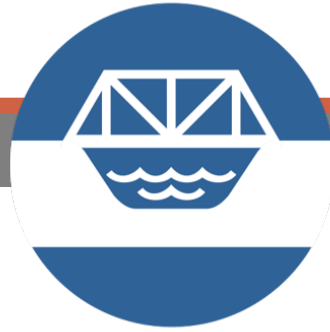
*Bascule with Cable Supported*



# East Span Bridge Type

To be determined in  
**Final Design Phase**





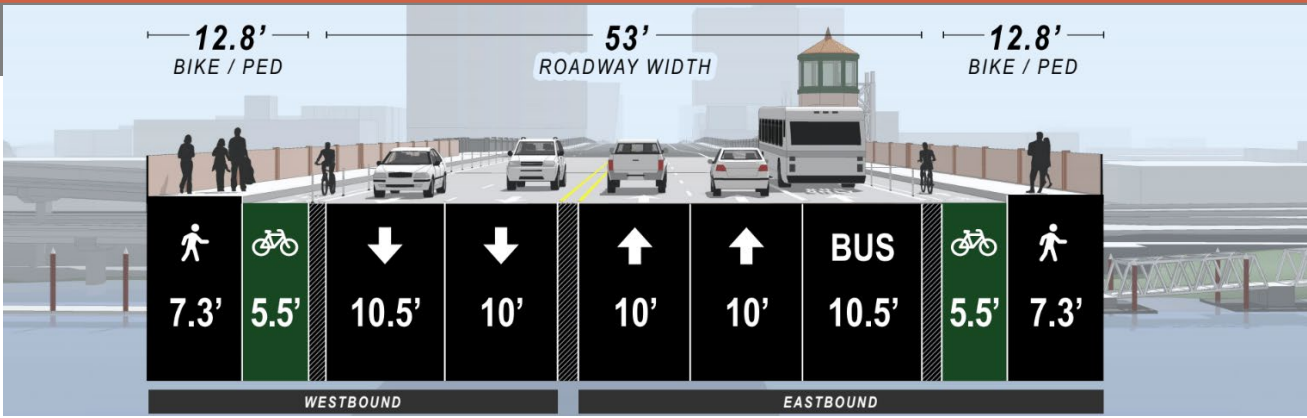
# Bridge Width



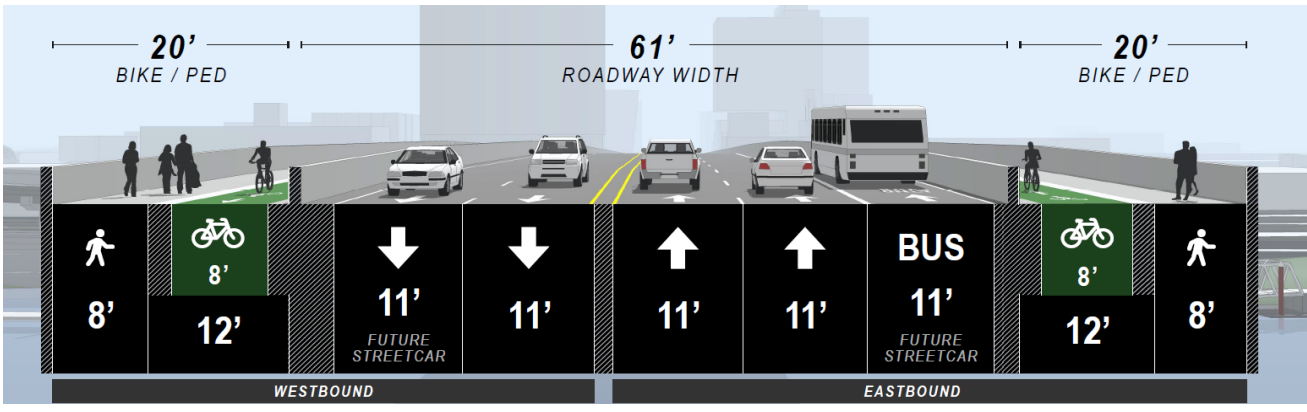
# Bridge Cross Section

## Narrower Bridge

### Existing Cross Section

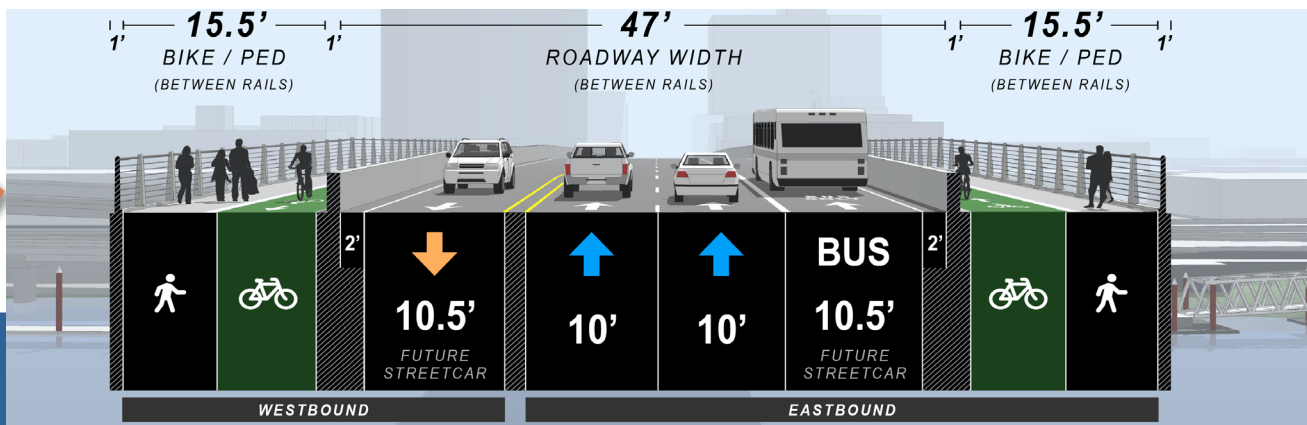


### DEIS Cross Section



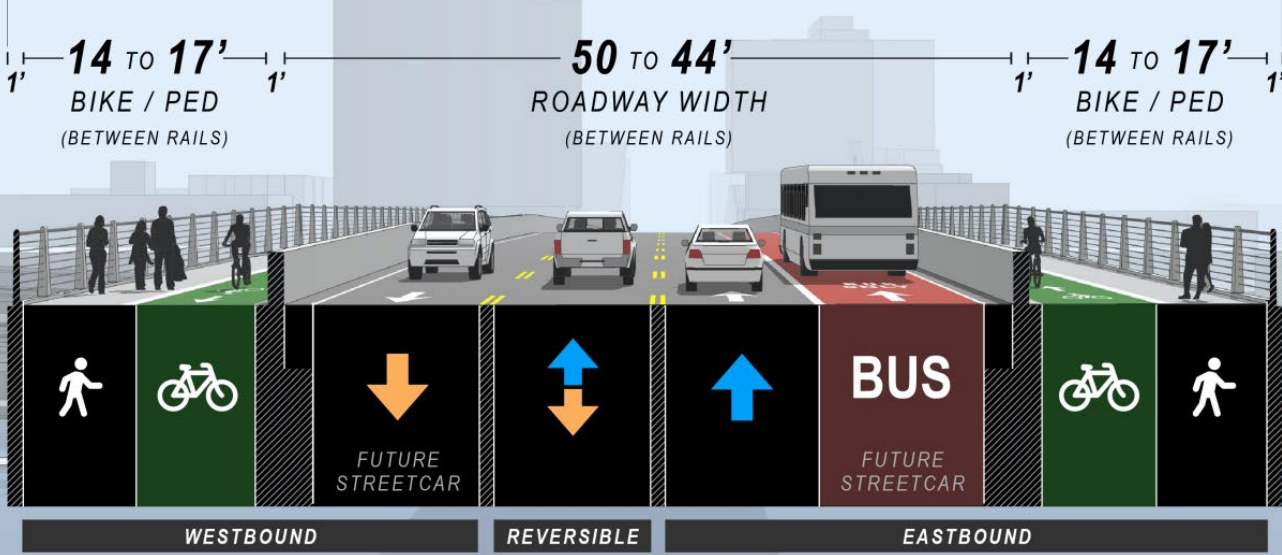
### Refined Cross Section Under Analysis

**\$140 - \$165M Savings**



# SDEIS Cross Section Options

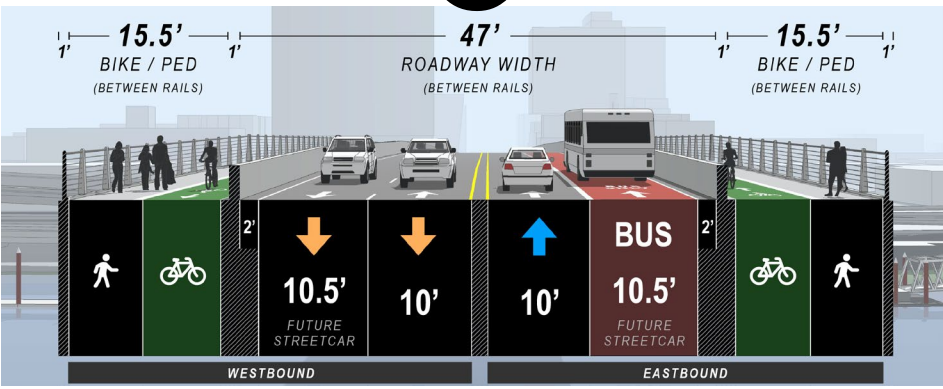
Re-allocating some vehicular width to bike/ped space



# 4-Lane Traffic Configurations

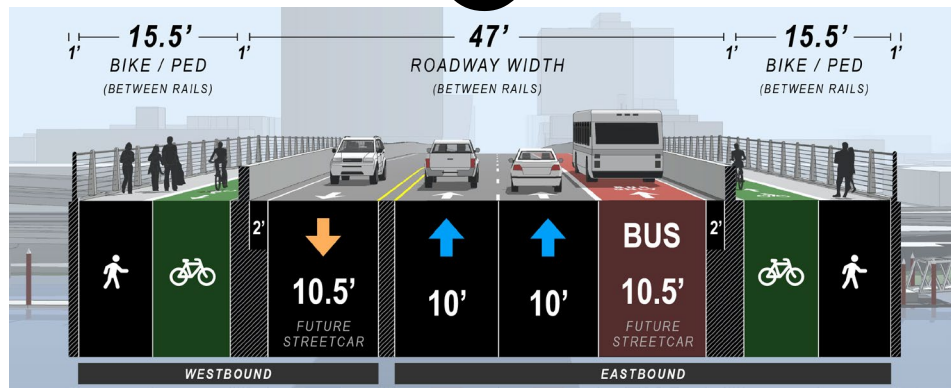
Lane Configuration is a PBOT decision

**1**



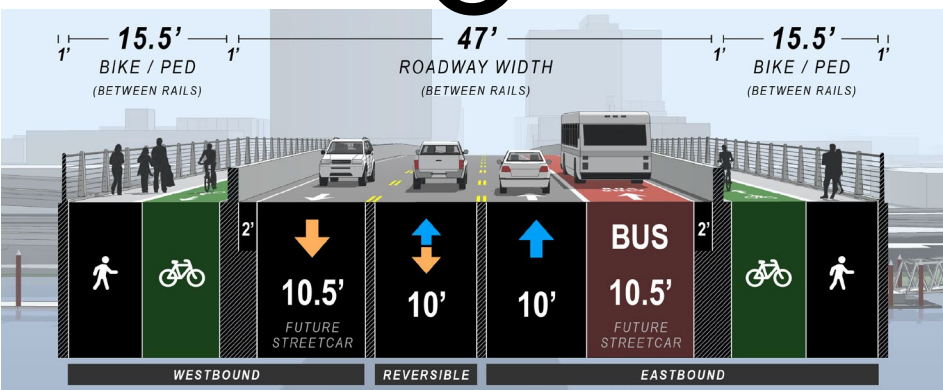
**2 WB Lanes / 1 EB + 1 Bus Lane**

**2**



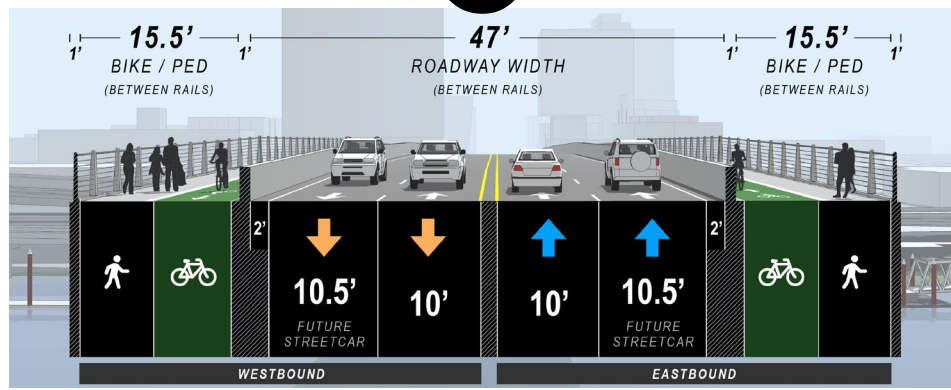
**1 WB Lane / 2 EB + 1 Bus Lane**

**3**



**Reversible Lane**

**4**



**2 WB Lanes / 2 EB Lanes (Bus queue jump)**



Notes: (1) Also analyzed impacts to adjacent bridges  
 (2) 15.5' bike/ped space shown; 14' to 17' bike/ped spaces under consideration

# ③ Reversible Lane Option

## What we're studying ...

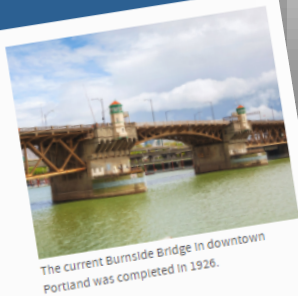
- Lessons Learned from others
- Traffic operations and safety
- Entry treatments



*Lions Gate Bridge,  
Vancouver, B.C.*

# Community Engagement

Mid-November to Mid-December 2021



**Objective:** Share revisions to the Preferred Alternative and seek community feedback.

## Key Activities:

- Online Open House and Survey
- Virtual Briefings
- Video
- Webinar
- E-newsletters, news releases and social media
- Diverse outreach through the Community Engagement Liaisons program







# **Review range of options studied for connections to MAX and Esplanade**



# Connections to MAX & Esplanade

## Existing Conditions

**North & South Stairs to Skidmore Max Station**



*Owner: Multnomah County*

**South Stairs to Eastbank Esplanade**



*Owner: City of Portland (built in 2001)*



# Connection to Eastbank Esplanade

## Range of options studied

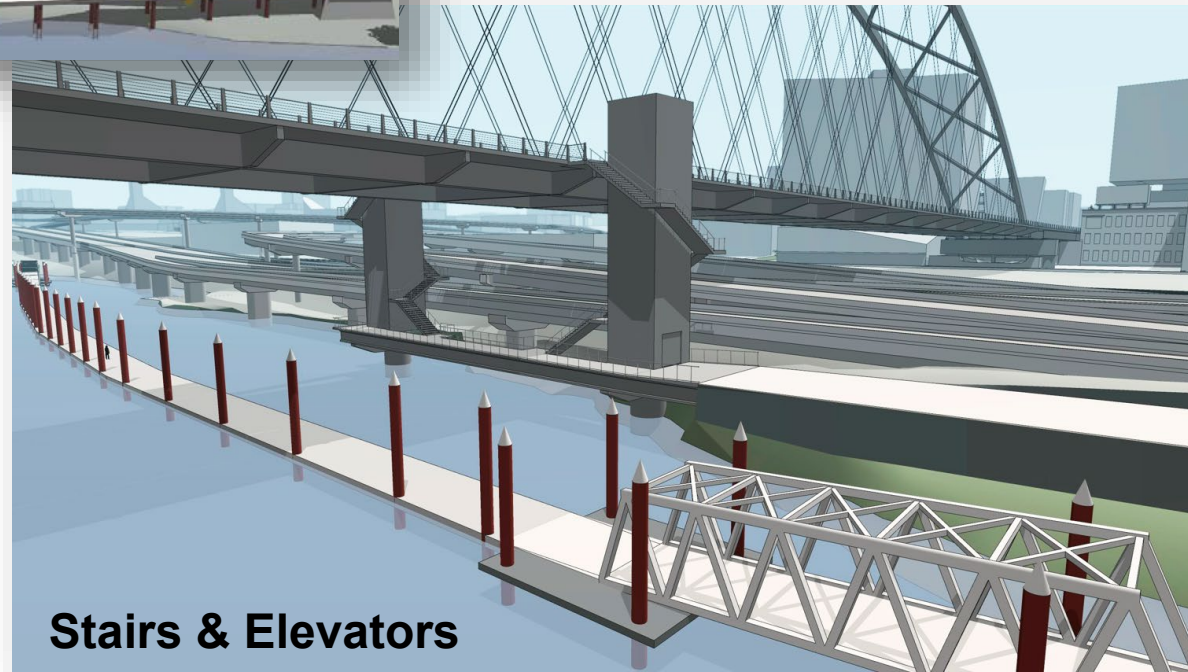
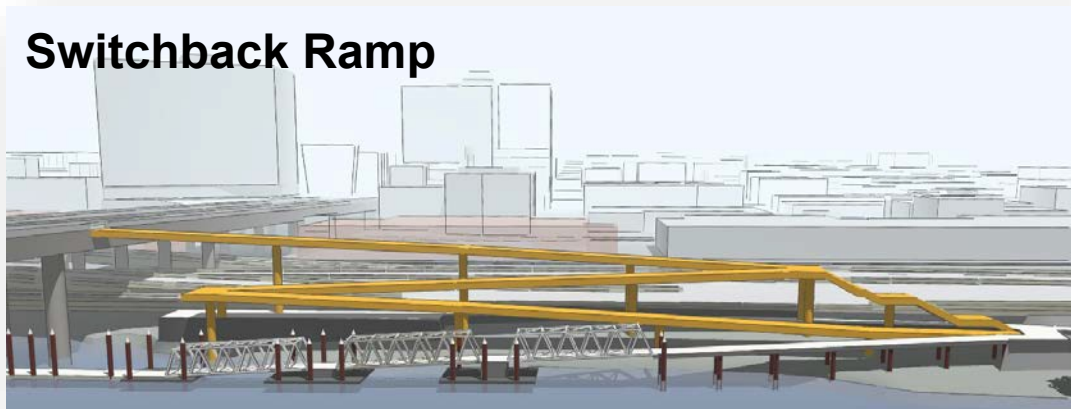
1. Ramp from bridge
2. On-bridge signalized crossing or under bridge crossing
3. Stairway + Elevator



# Connection to Eastbank Esplanade

Examples: Range of options studied to Esplanade

## Switchback Ramp



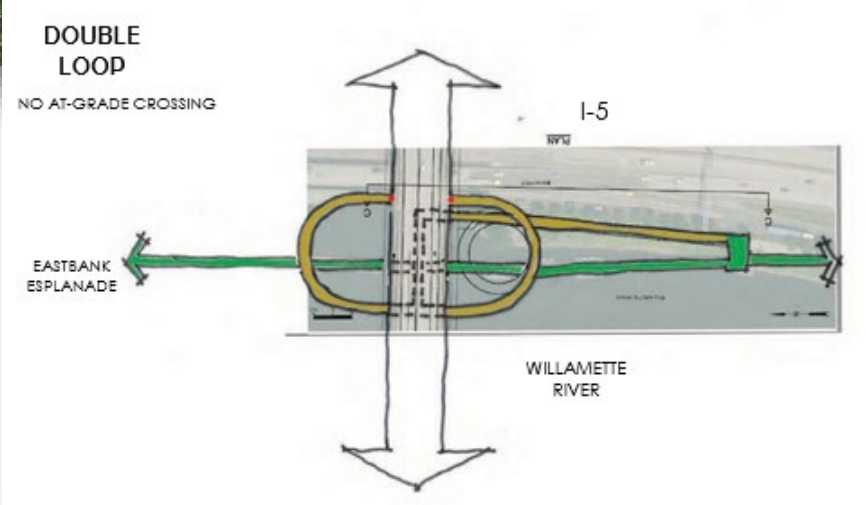
## Stairs & Elevators



# Connection to Eastbank Esplanade



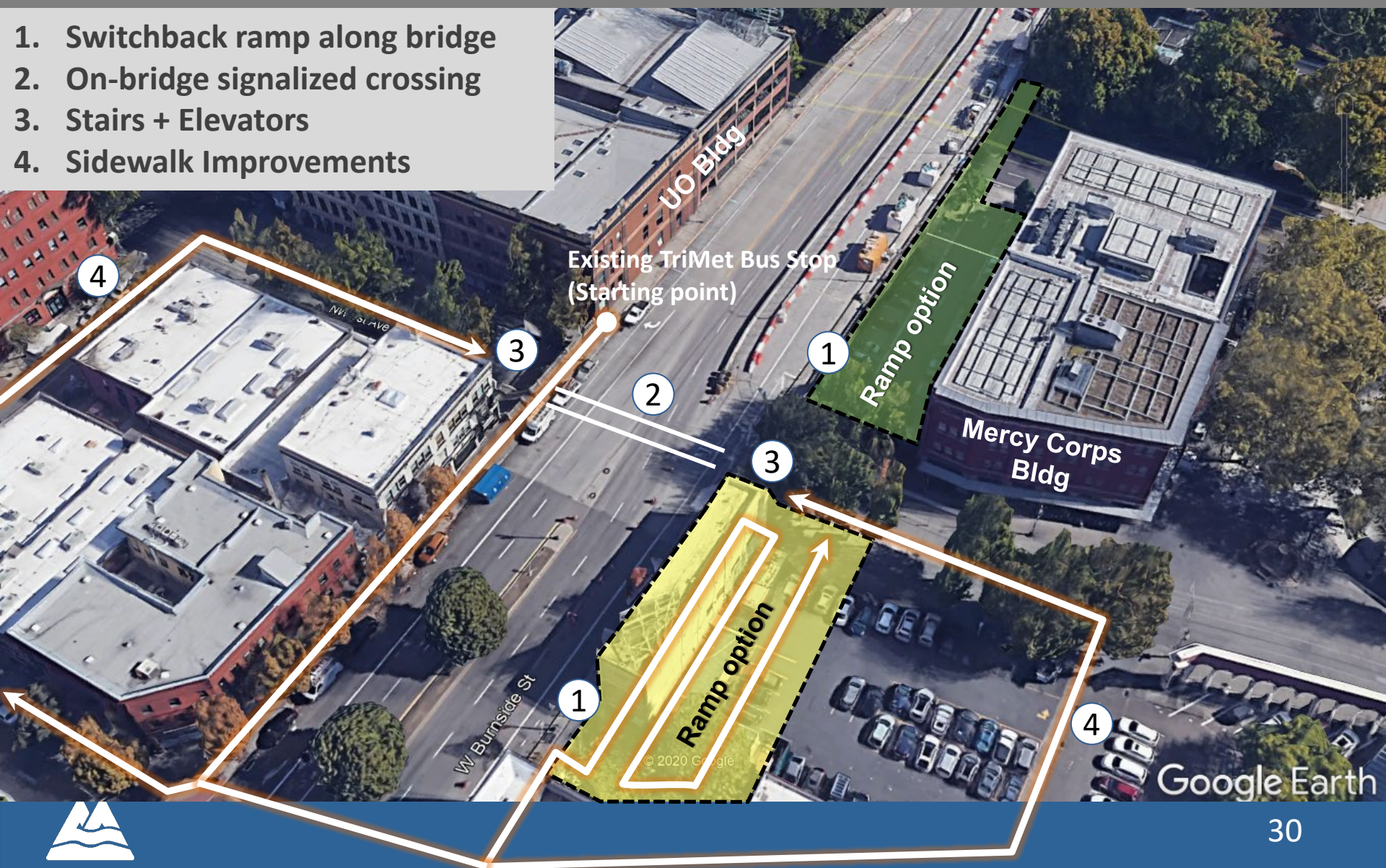
Preliminary concepts from PBOT and Human Access Project



# Connection to Skidmore MAX Station

## Options Studied

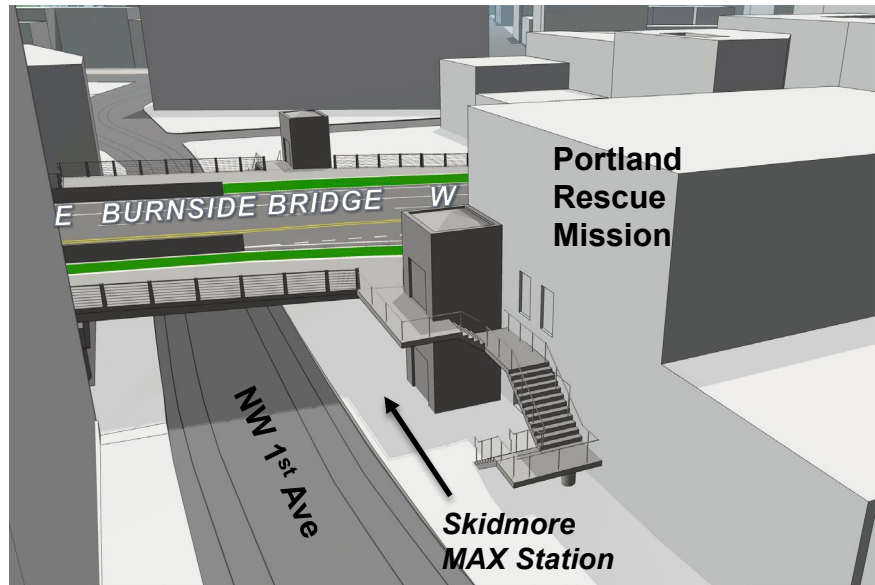
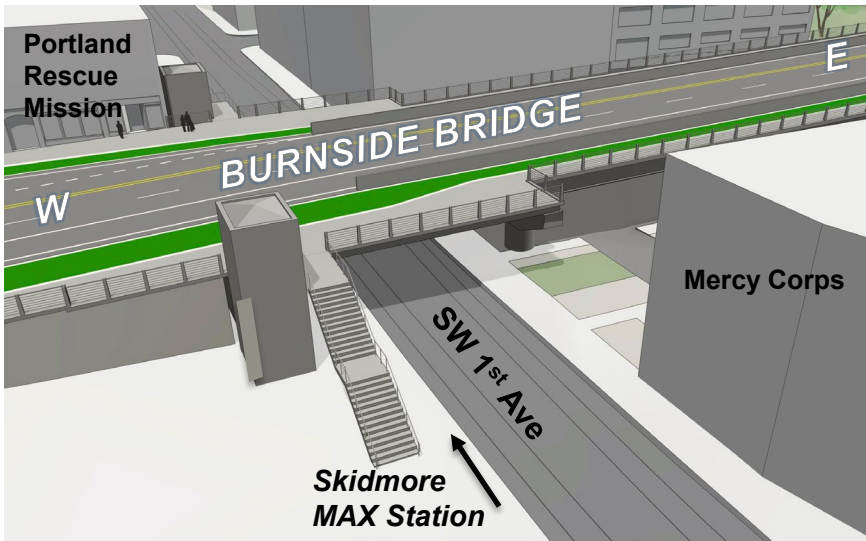
- 1. Switchback ramp along bridge
- 2. On-bridge signalized crossing
- 3. Stairs + Elevators
- 4. Sidewalk Improvements



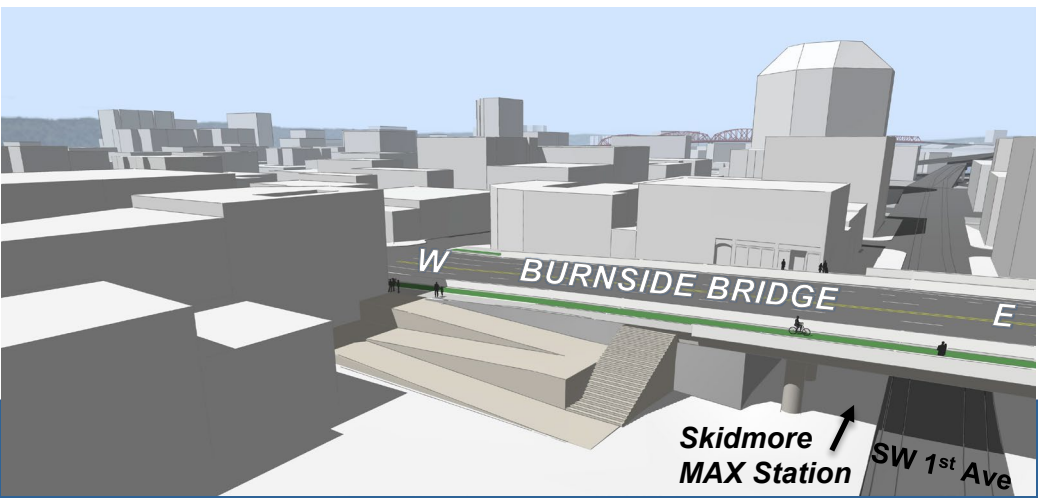
# Connection to Skidmore MAX Station

Examples: Range of options studied on the west side

## Stairs & Elevators



## Ramp



# Connection to Skidmore MAX Station

Examples: Range of options studied on the west side

**Sidewalk upgrades to improve routes from bridge to nearest bus/MAX stops on west side**





# Connection to Skidmore MAX Station

## New Consideration

- Potential west approach bus stop relocation to NW 2<sup>nd</sup> Avenue
- Potential change in level of service to Skidmore Max Station



**Decision will be made during  
Final Design phase**



## ENVIRONMENTAL REVIEW PHASE

- **November / December 2021** – Share and seek community feedback on proposed refinements to the Preferred Alternative (PA)
- **January 2022 CTF Meeting** – Share community feedback and confirm PA refinements for Policy Group approval
- **January PG Meeting 2022** – Share community and CTF feedback and seek Policy Group approval and Mult Co BCC Revised PA adoption
- **March / April 2022** – Publication of Supplemental Draft EIS and public comment period
- **September 2022** – Final EIS and Record of Decision

## FINAL DESIGN PHASE

- **Mid-2022 to 2025**
- Includes decision on connection to Eastbank Esplanade and Skidmore MAX



# Thank you!

