



Design Commission Briefing

Presenters:

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Megan Neill, Multnomah County

Steve Drahota, HDR

Department of Community Services
Transportation Division

December 17, 2020

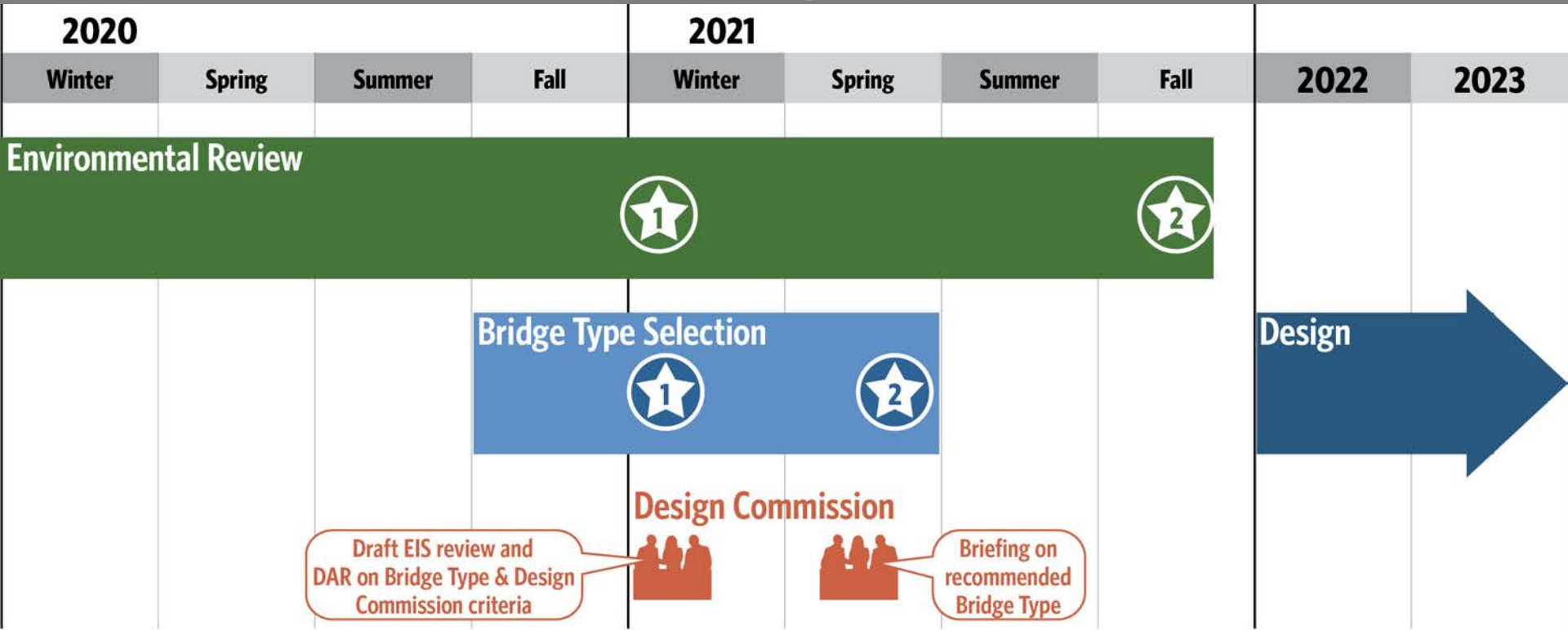
Briefing Overview

- 1. Project Timeline and Key Milestones**
- 2. Preferred Alternative and Outreach**
- 3. Bike/Pedestrian/ADA Access**
- 4. Bridge Type Selection Process**
- 5. Next Steps and Closing Remarks**



Project Timeline

Environmental Review and Bridge Type Selection



Environmental Review

- ★1 Jan 2021: Publish Draft EIS and begin 45-day comment period
- ★2 Fall 2021: Final EIS and Record of Decision

Bridge Type Selection

- ★1 Jan/Feb 2021: Community input on range of Bridge Type options and evaluation criteria
- ★2 June 2021: Bridge Type approval

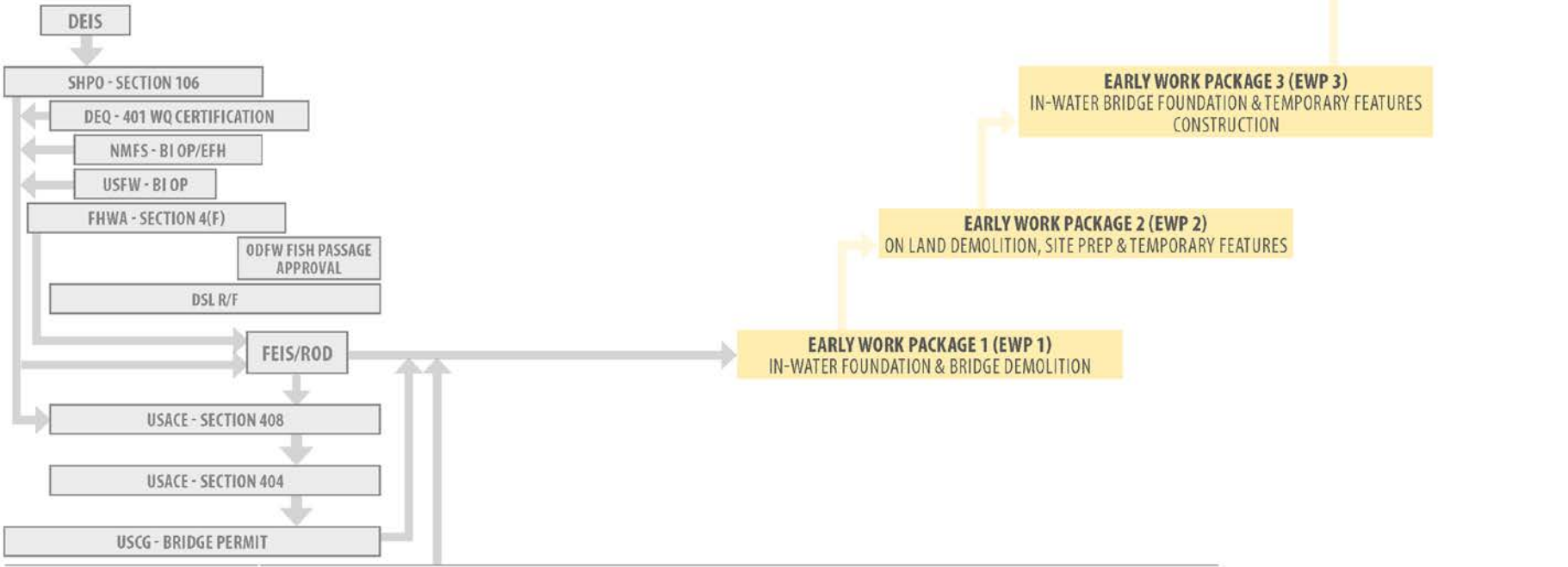


Project Permit Predecessors & Milestones

PERMIT PREDECESSORS AND MILESTONES

BETTER – SAFER – CONNECTED December 2020

2020				2021				2022				2023				2024				2025				2026
4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q			



Preferred Alternative & Outreach



Range of Alternatives in DEIS



**Enhanced
Seismic Retrofit**



Replacement:
Short Span
(Bascule or Lift)



Replacement:
Long Span
(Bascule or Lift)



Replacement:
Couch Extension
(Bascule or Lift)



(Concept Images)

Recommended Preferred Alternative

By Community Task Force, Policy Group and Board of County Commissioners

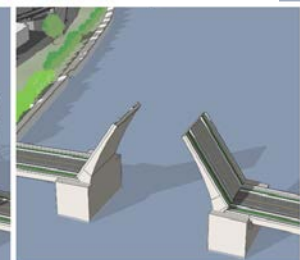
Replacement Long Span



MOVABLE SPAN TYPES (EXAMPLE)



Lift



Bascule (shown above)

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

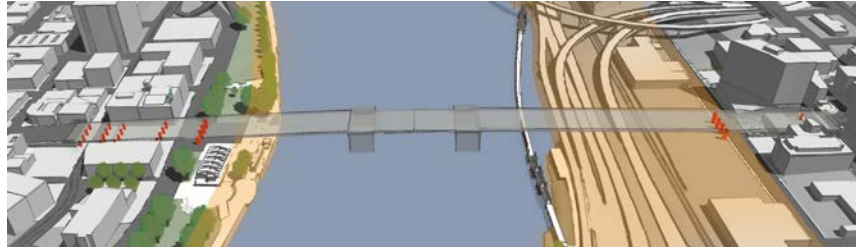




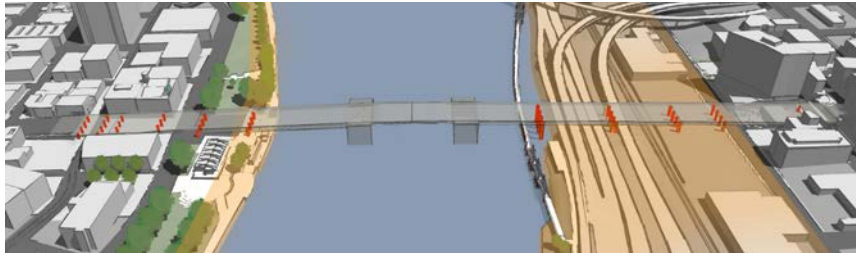
Best for Seismic Resiliency

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

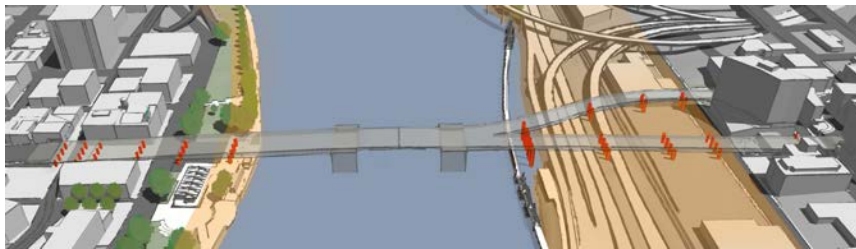
**Replacement
Long Span**



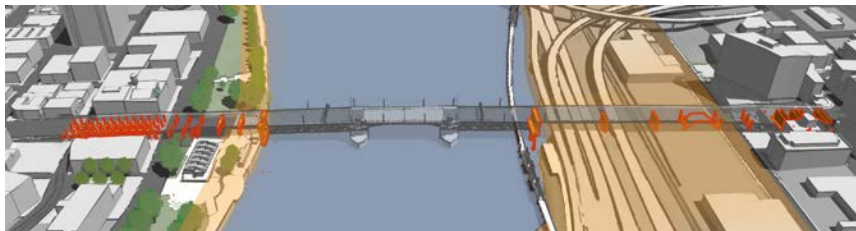
**Replacement
Short Span**



**Replacement
Couch Extension**



**Enhanced
Seismic Retrofit**

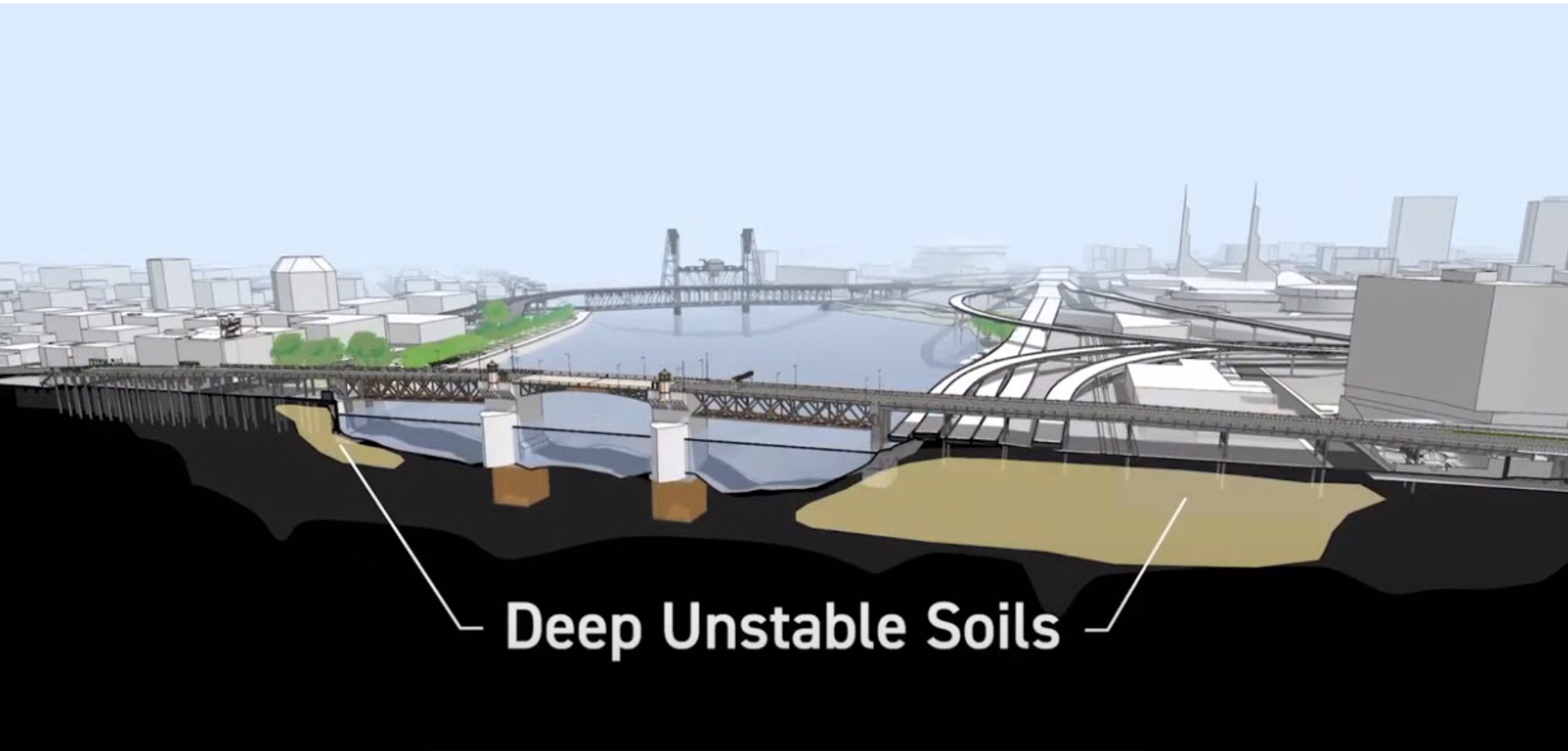




Best for Seismic Resiliency

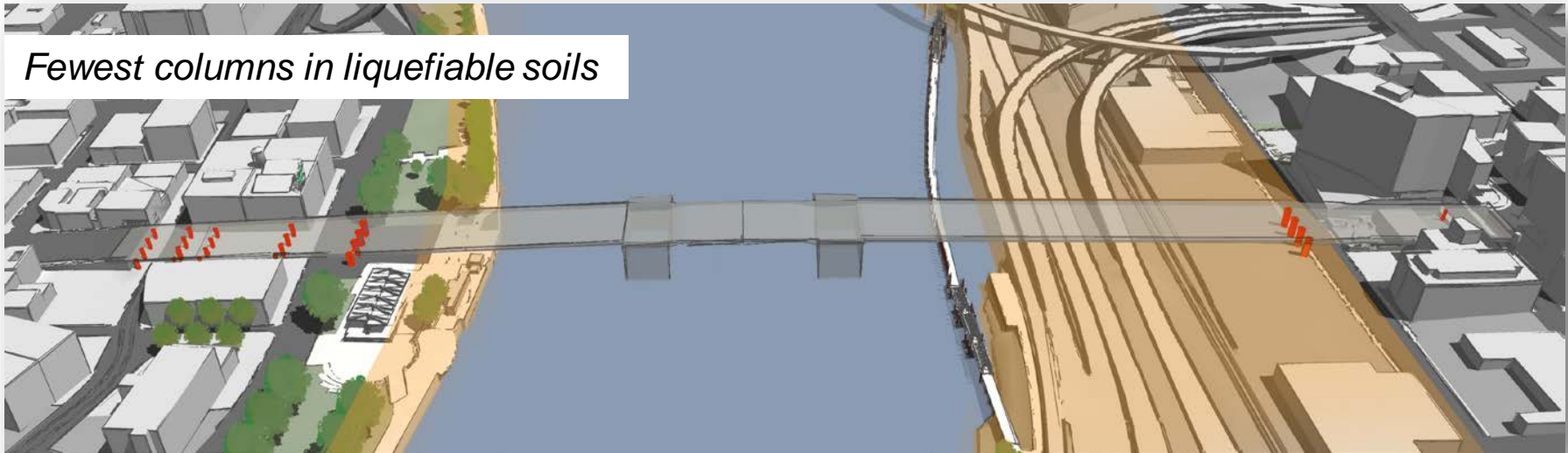


Locating fewer columns in liquefiable soils gives it the least risk from soil movement during an earthquake



Recommended Preferred Alternative

Replacement Long Span



BENEFITS

- Best for seismic resiliency
- Least cost alternative
- Enhances/preserves community resources
- Improves safety for bike/ped/ADA
- Least impacts to natural resources

IMPACTS

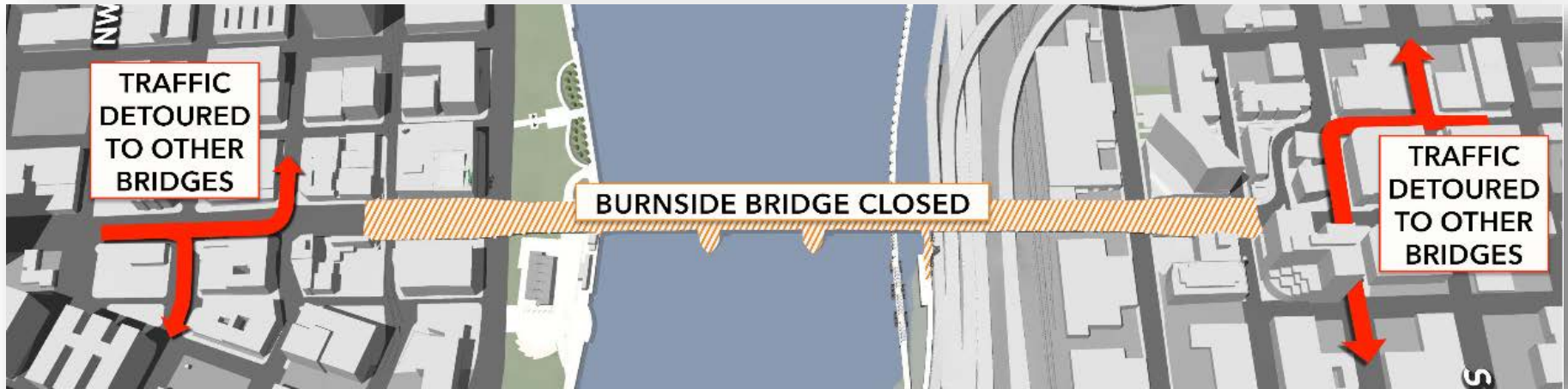
- Removes historic Burnside Bridge

CONSIDERATIONS

- Views

Traffic Management During Construction

Full Bridge Closure



- **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**

Outreach

By the Numbers

70+

BRIEFINGS to agencies, individuals, and organizations

19

DEI organizations reached

25,000+

UNIQUE VISITORS to the online open house and survey

6,800+

SURVEY RESPONSES

6

In-language **TRANSLATIONS** of the online open house and materials

38

Social media **POSTS** and **ADVERTISEMENTS**

2,578

E-newsletter **RECIPIENTS**

4

NEWS RELEASES AND E-NEWSLETTERS

147

BUSINESSES CONTACTED via phone canvassing

41,900

FLYERS MAILED

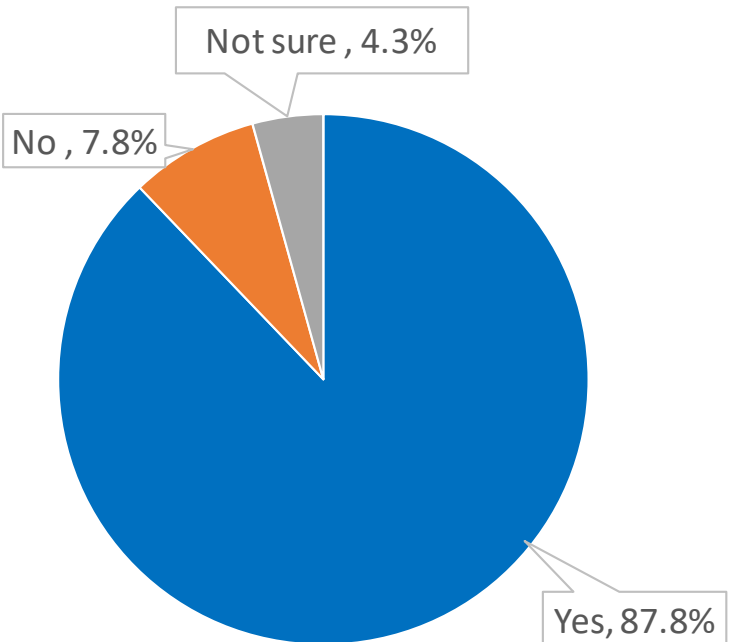


Outreach

Summer 2020 Online Survey – What we heard

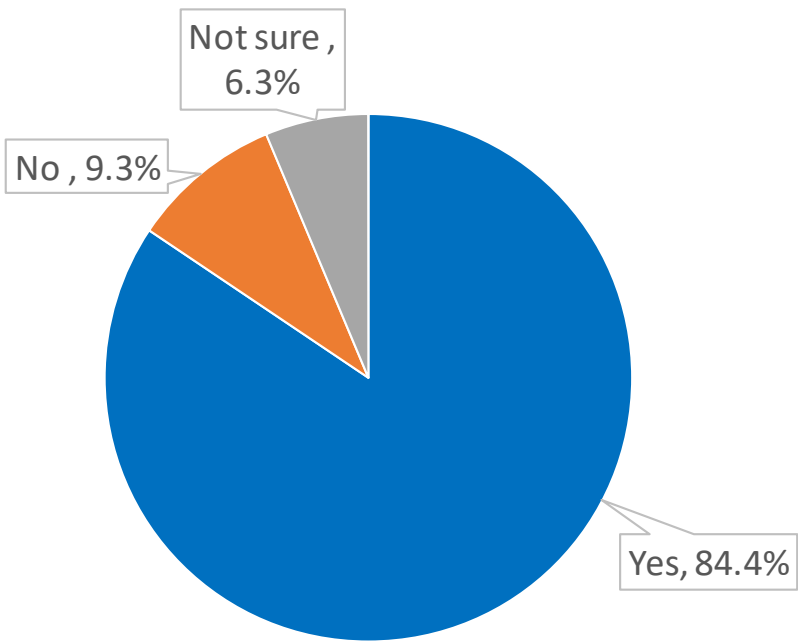
Is the Replacement Long Span the right choice?

87.8% agree with the Replacement Long Span



Is a full bridge closure during construction the right choice?

84.4% agree with a full bridge closure



Bicycle / Pedestrian and ADA Access



Bike/Ped & ADA Access

Existing Condition



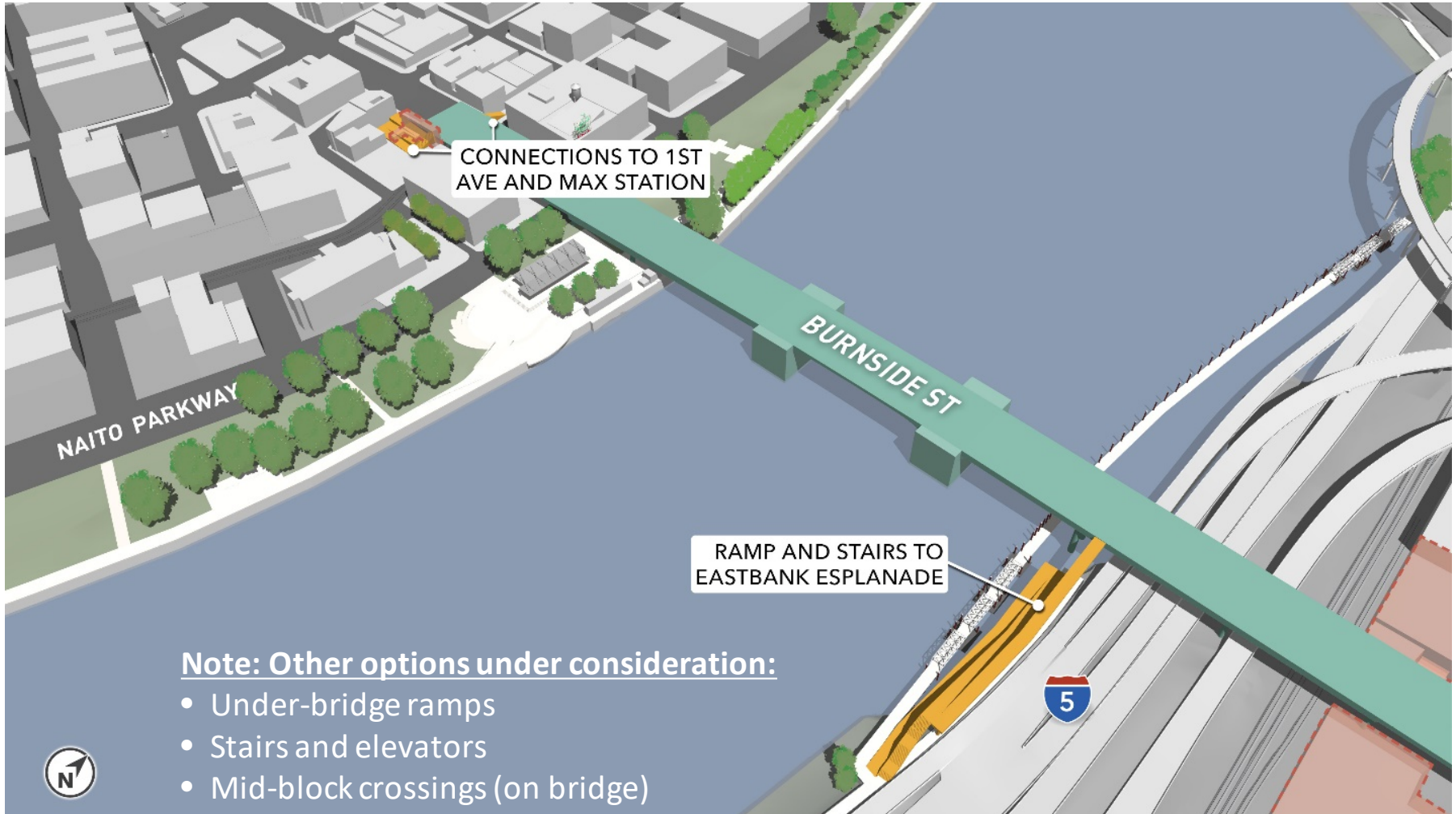
Westside: Stairway to Skidmore Fountain Max Station

Eastside: Stairway to Eastbank Esplanade



Bike/Ped & ADA Access

Potential Access Options



Bridge Type Selection Phase



Study a range of different Bridge Types

Examples of Long Span Bridges Under Consideration



or

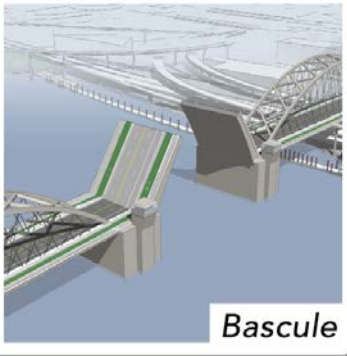
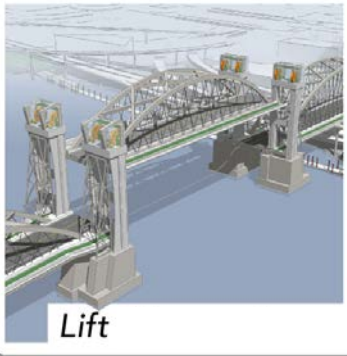


or



MOVABLE SPAN TYPES (EXAMPLE)

+



** Note: Other options are also being considered*

Study a range of different Bridge Types

Urban Design and Aesthetics Working Group

DESIGN COMMUNITY:

- Parks, Randy Gragg, Executive Director, Portland Parks Foundation
- Community Arts, Bill Will, Public Works Artist
- Urban Design and Architecture, Paddy Tillett, Principal, ZGF
- Art & Design, Chris Herring, Artistic Director, Portland Winter Lights Festival
- Development, Megan Crosby, Urban Development + Partners
- Businesses, Ian Williams, Deadstock Coffee
- River Access, Priscilla Macy, Oregon Outdoor Coalition
- Transportation Equity, Izzy Armenta, Oregon Walks
- Community Events, Dave Todd, Portland Rose Festival
- Cultural, Brian Kimura, Japanese American Museum of Oregon

AGENCY COMMUNITY:

- City of Portland
 - Patrick Sweeney, Capital Project Manager, PBOT
 - Lora Lillard, AICP, Senior Planner - Urban Design, BPS
 - Hillary Adams, City Planner, BDS
 - Tate White, AICP, Senior Planner, PPR
- Justin Douglas, Manager - Governance, Learning & Outcomes, Prosper Portland
- Bob Hastings, Agency Architect - TriMet
- Magnus Bernhardt, Landscape Architect, ODOT Region 1

PROJECT TEAM:

- Megan Neill, MultCo, Project Manager
- Mike Pullen, MultCo, Public Involvement
- Heather Catron, HDR, Consultant PM
- Allison Brown, JLA, Facilitator
- Steve Drahota, HDR, Technical Lead
- Cassie Davis, HDR, Public Involvement Lead
- Michael Fitzpatrick, HDR, Bridge Architect Lead
- Jeff Heilman, Parametrix, Environmental Lead
- Carol Mayer-Reed, Mayer/Reed, Principal
- Jeramie Shane, Mayer/Reed, Landscape Architect
- Josh Carlson, Mayer/Reed, Landscape Architect
- Anne Monnier, KPFF



UDAWG Purpose and Outcome

Purpose: To serve as a technical resource to the Community Task Force (CTF) for:

- Insights and opinions on the visual features
- Measures to enhance aesthetic enhancing opportunities or mitigate potential visual impacts
- Urban design and aesthetic interests
- Place-making opportunities that reflect character of Portland

Outcomes: To provide input on the following products for the CTF's consideration:

- A set of feasible bridge type options
- A project-specific Visual Design Guidelines
- Recommendations for visual and aesthetic evaluation criteria



UDAWG Meetings

General Focus

We are HERE



	UDAWG Meeting Number and Date								
	#1 (9/30)	#2 (10/14)	#3 (10/28)	#4 (11/4)	#5 (11/18)	#6 (12/2)	#7 (12/16)	#8 (3/10)	#9 (6/2)
Character of Portland and the Burnside Bridge	—————								
Visual Design Principles			—————						
Visual Design Guidelines					—————		--- 2		
Technical Design Criteria	—————								
Menu of Bridge Types		—————							
Range of Feasible Bridge Types					———		——— 1		
Evaluation Criteria Topic(s)					———				
Evaluation Measures					—————		--- 3		
Input on CTF's Eval Criteria								———	
Input on CTF's Rec Bridge Type									———

Info from UDAWG to CTF

- Bridge Type Input
- Type Selection Evaluation Criteria Recommendations



Study a range of different Bridge Types

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, 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



Tereganu Bridge, Malaysia



Fore River Bridge, Massachusetts



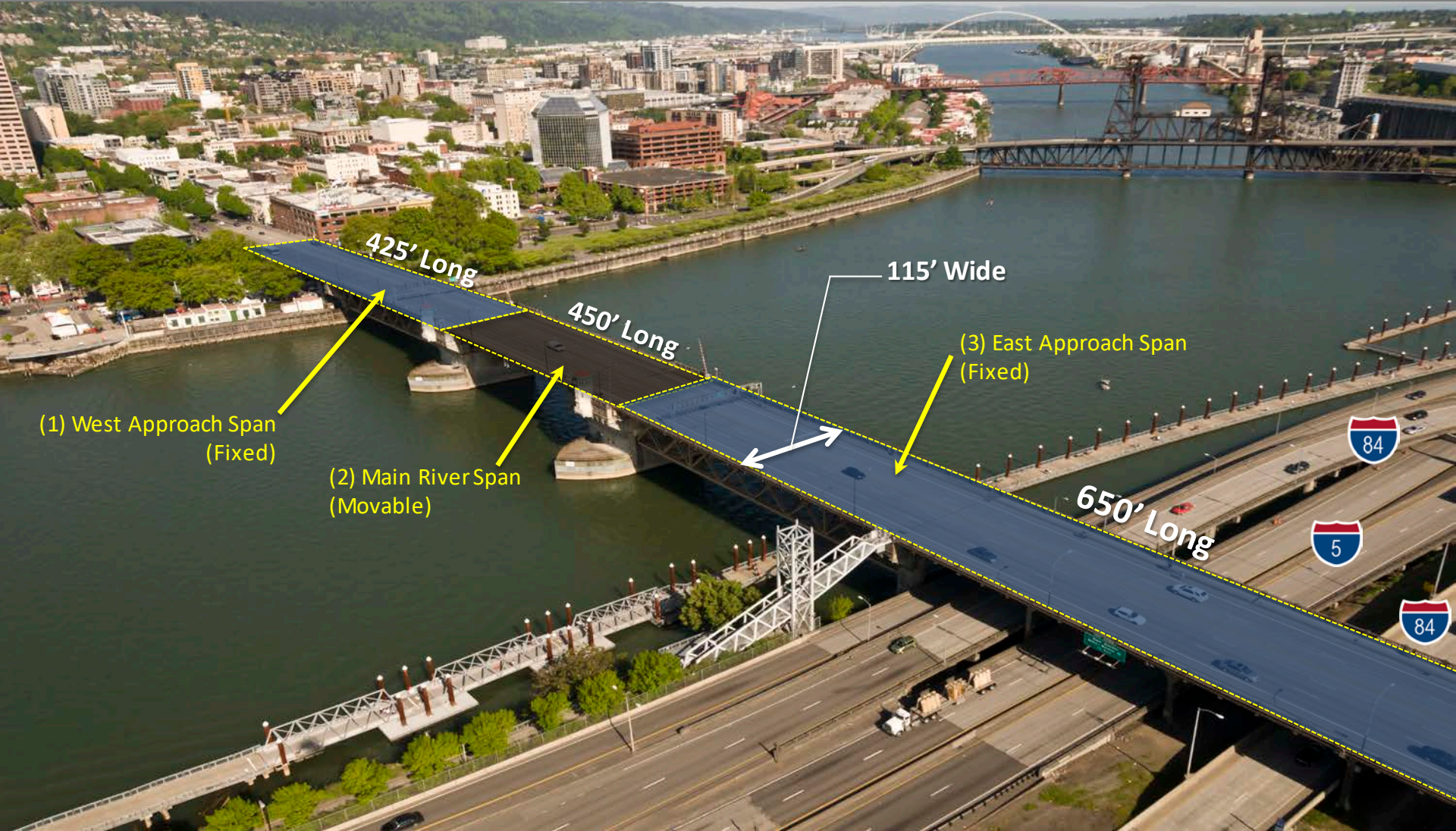
Pont Jacques Chaban, Delmas



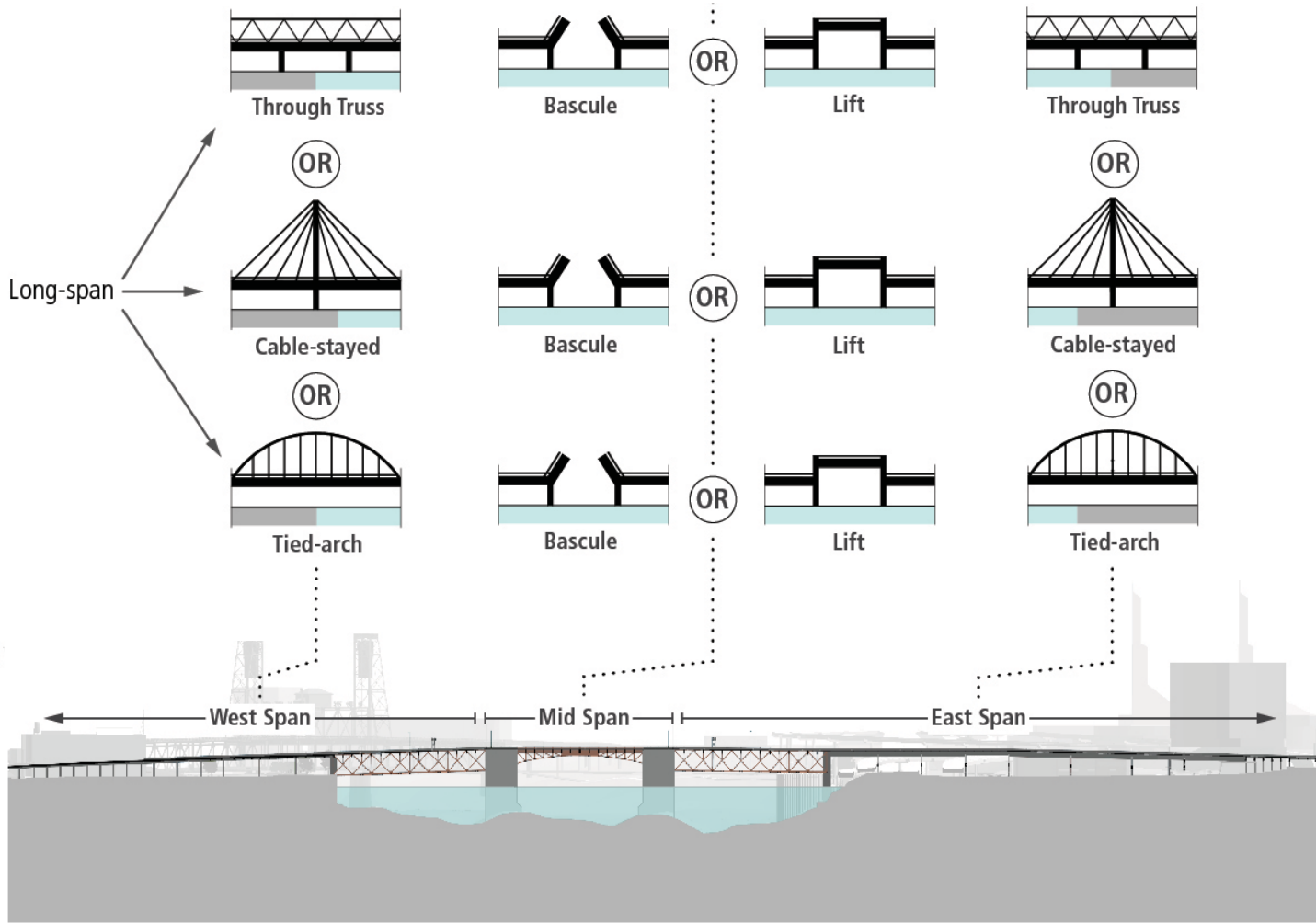
Manchester Millenium Bridge, England

Bridge Types Overview

Long Span – “Three bridges in one”

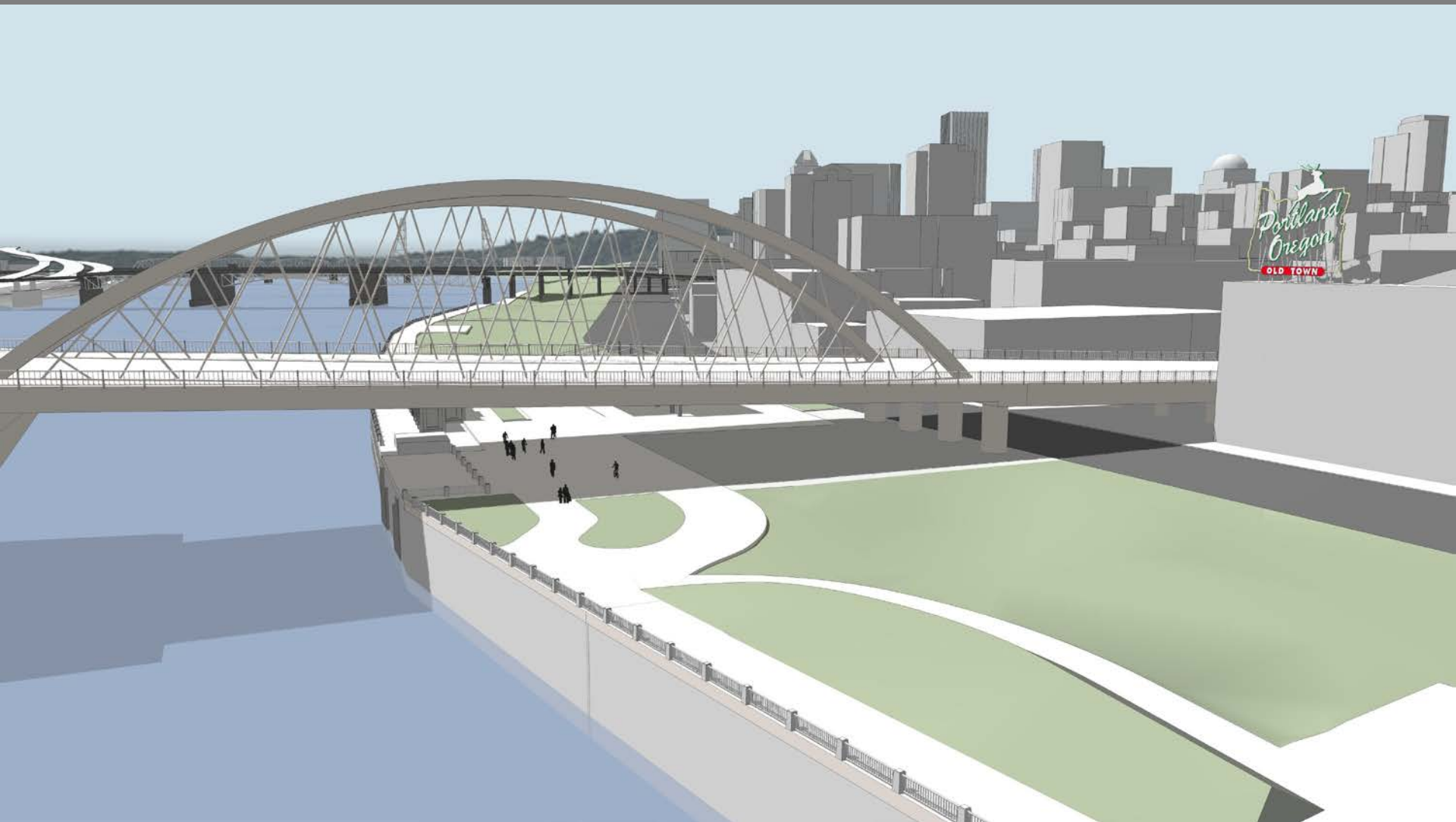


Bridge Types Overview



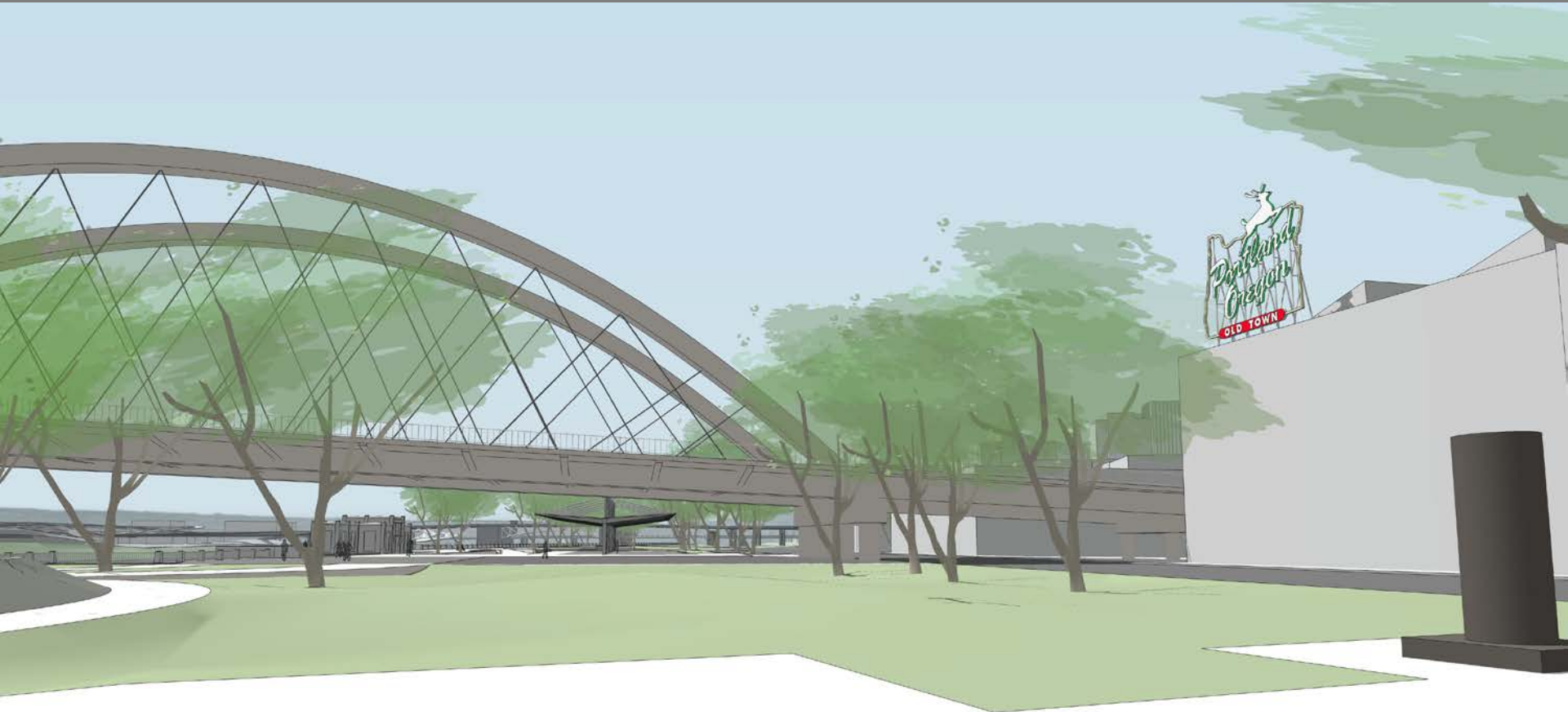
Bridge Types Overview

Tied Arch Option (support near Naito Parkway)



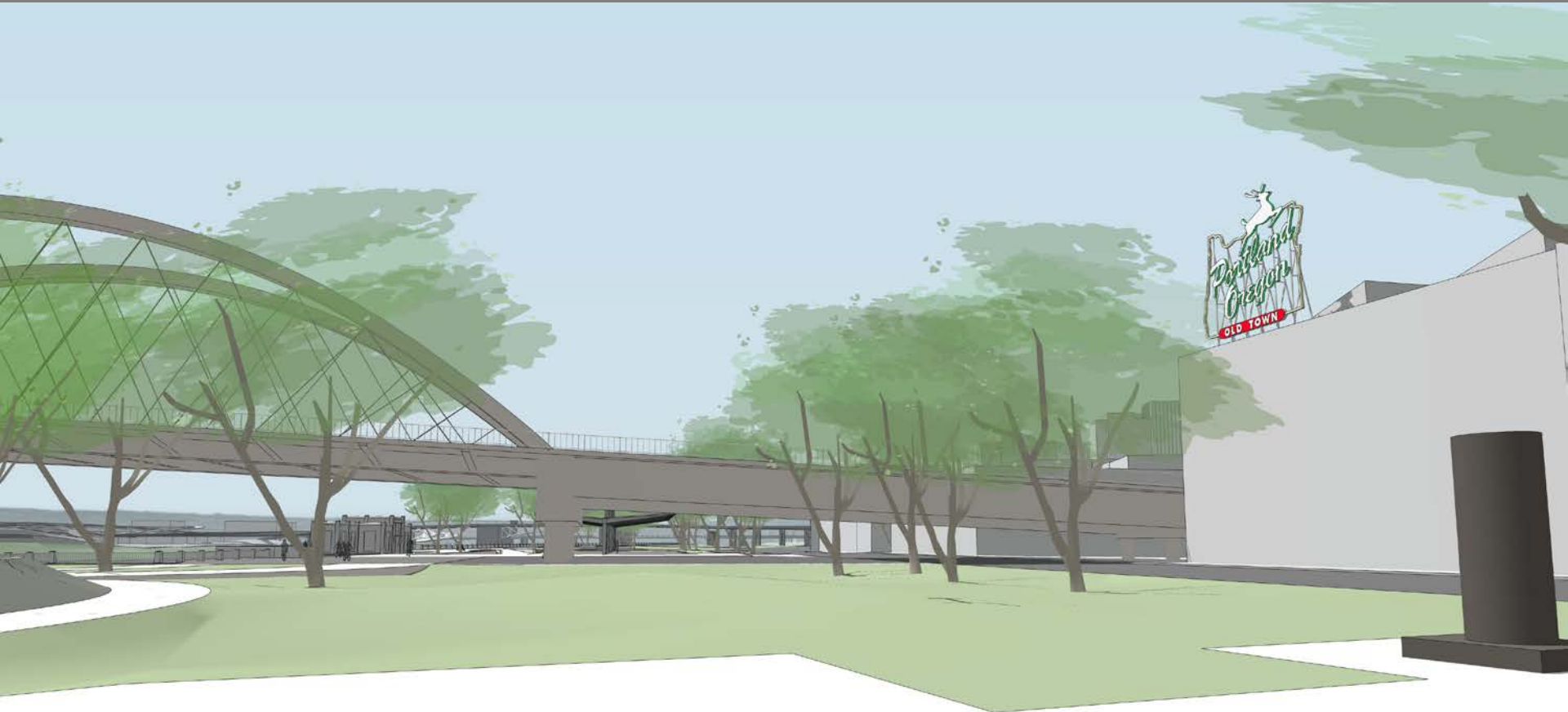
Bridge Types Overview

Tied Arch Option (support near Naito Parkway)



Bridge Types Overview

Tied Arch Option (support within Waterfront Park)



Bridge Types Overview

Cable Stayed Option (support within Waterfront Park)



Bridge Types Overview

Cable Stayed Option (support within Waterfront Park)



Bridge Types Overview

Cable Stayed Option (support near Naito Parkway)



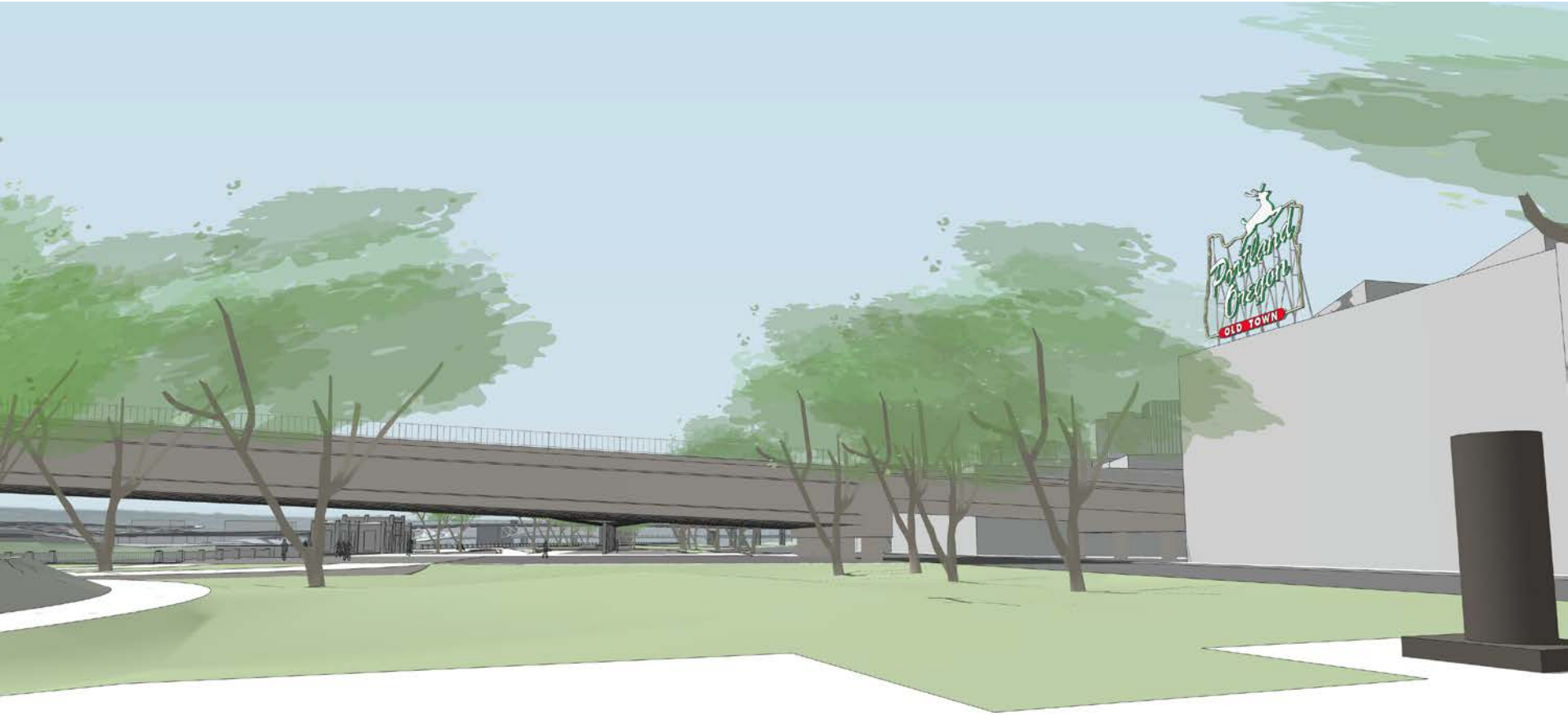
Bridge Types Overview

Girder Option (support within Waterfront Park)



Bridge Types Overview

Girder Option (support near Naito Parkway)



Bridge Types Overview

Girder Option (support within Waterfront Park)



How will we choose one?

We'll study and compare the options related to:



Urban Context and Experience

- On-bridge Experience
- Urban Setting
- Public Use and Context



Visuals and Aesthetics

- Visual Coherence
- Bridge Form and Style
- Bridge Aspirations



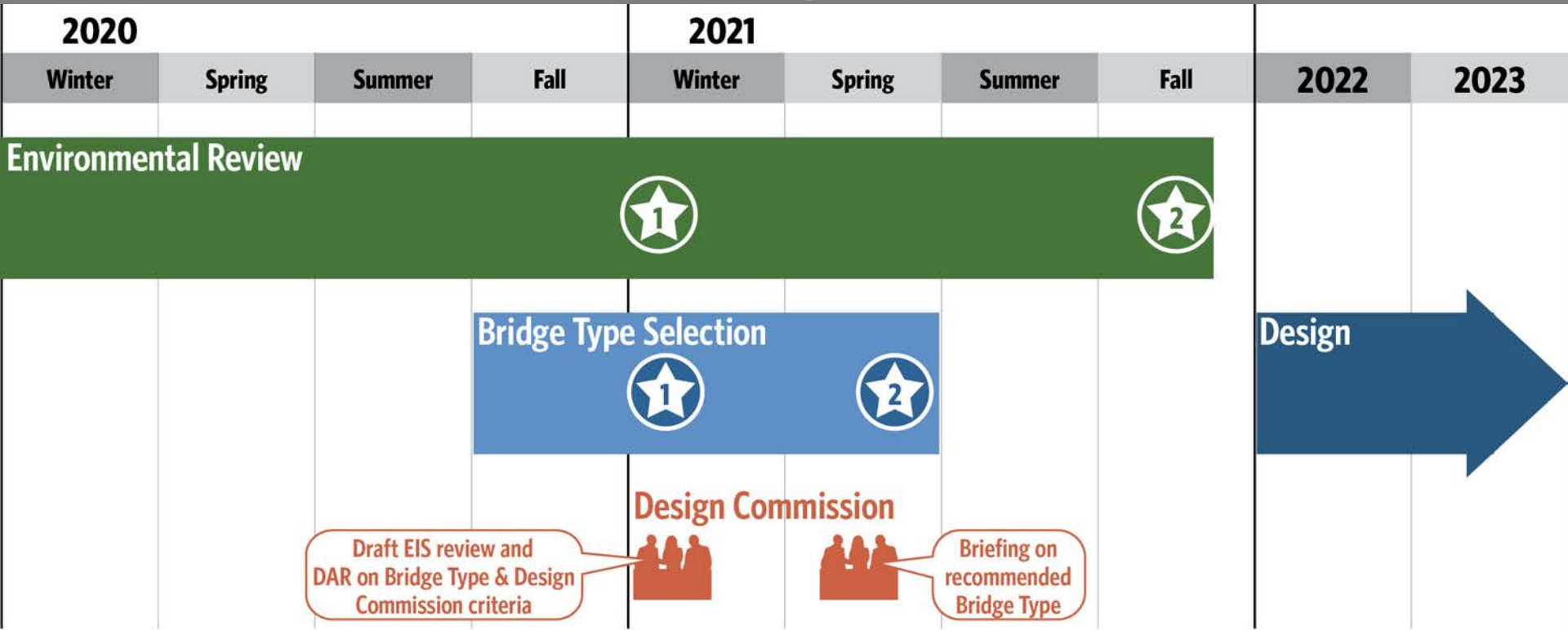
Cost and Construction

- Cost to Design and Construct
- Cost to Maintain Over the Long-Term
- Construction impacts to users



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2021

- **January:** Publish Draft Environmental Impact Statement
- **Jan/February:** Briefing on Draft EIS and DAR on Bridge Types and Design Commission Guidelines and Criteria
- **March:** City Council Meeting to approve Preferred Alternative
- **May:** Briefing on recommended Bridge Type
- **June:** Policy Group approval of recommended Bridge Type



Questions?

