



Senior Agency Staff Group Meeting

Department of Community Services
Transportation Division

March 31, 2020

Agenda

1. Welcome & Introductions
2. Project Update
3. Technical Updates
4. CTF Updates
5. Joint-Agency Criteria Ratings Workshop
6. Environmental Technical Reports
7. Upcoming Meetings and Next Steps



Project Update

Since we last met...

Policy Group and Board approved for further study:

Range of Alternatives

1 ENHANCED SEISMIC RETROFIT
Retrofit + Replace
Retrofit existing | Retrofit existing movable span | Replace (over I-5 and railroad line)

2 REPLACEMENT: MOVABLE BRIDGE
MOVABLE SPAN
BURNSIDE ST

3 REPLACEMENT: MOVABLE BRIDGE - NE Couch Connection
MOVABLE SPAN
BURNSIDE ST | COUCH ST

Traffic Management

TEMPORARY BRIDGE
BURNSIDE BRIDGE CLOSED
TEMPORARY MOVABLE BRIDGE

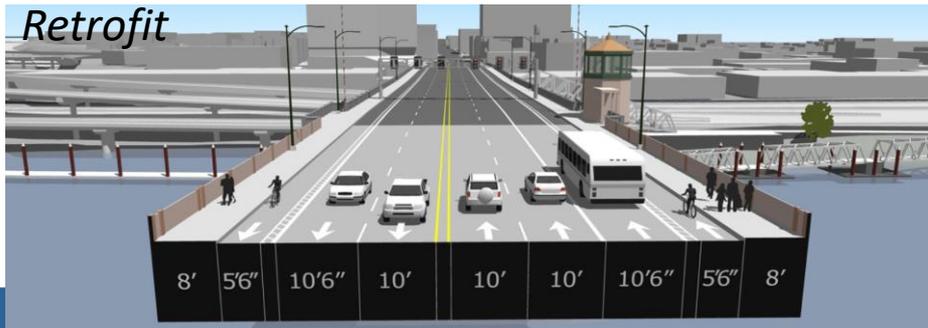
FULL BRIDGE CLOSURE
TRAFFIC DETOURED TO OTHER BRIDGES
BURNSIDE BRIDGE CLOSED
TRAFFIC DETOURED TO OTHER BRIDGES

Evaluation Criteria

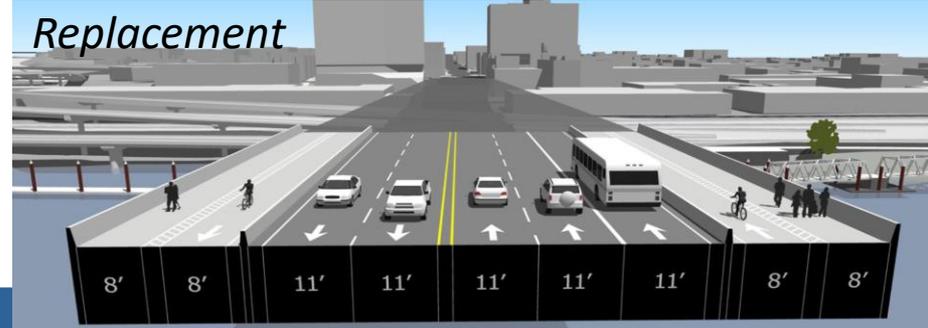


Cross Sections

Retrofit



Replacement



Project Update

Funding Update

Potential Funding Sources

- County Vehicle Registration Fee (fund Planning, Design, Construction Phases)
- Regional Metro *Get Moving 2020* bond measure (Construction Phase)
- State/Federal (Construction Phase)

Multnomah County VRF

- Originally \$19/year (lowest of 3 Metro counties)
- Raised to \$56/year
 - County Board voted 11/14/2019 and 12/5/2019
 - Effective 1/1/2021
- Dedicated to County's Willamette River bridges
- New \$ targeted for Burnside Bridge
- Exploring options for full or partial refund for low income communities



Project Update

Working/Focus Groups

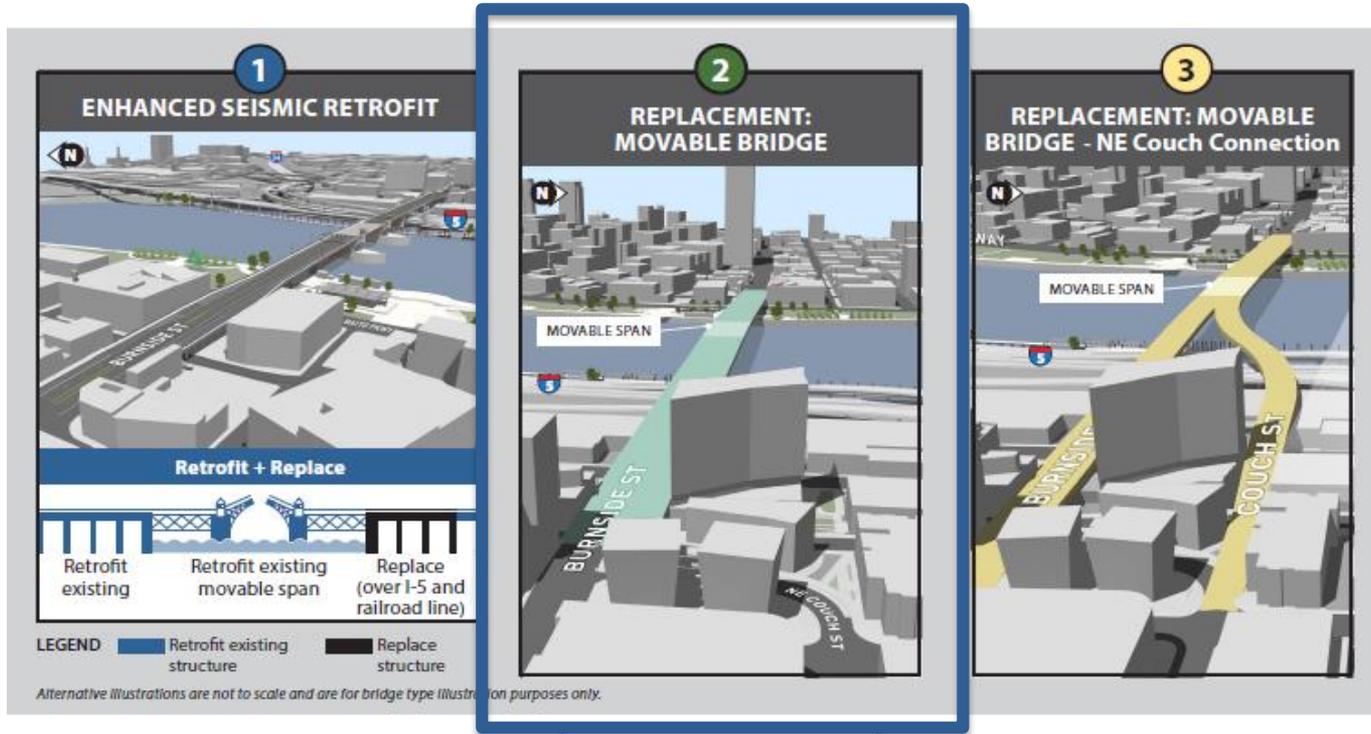
- Urban Design
- Social Services
- EJ/Equity Advisory Panel

Stakeholder Briefings



Technical Updates

In-Kind Replacement Alternative



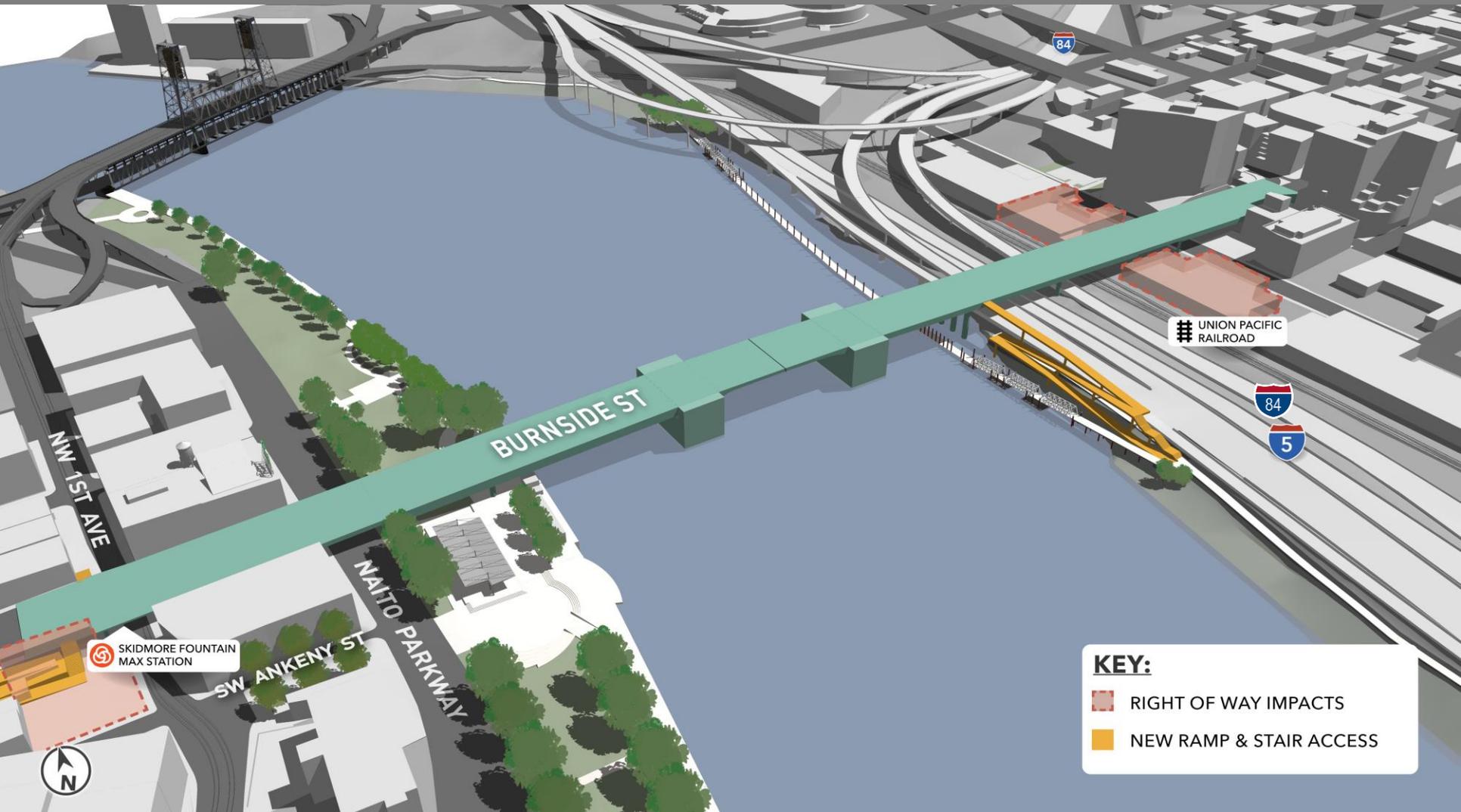
Long-Span

Conventional



Technical Updates

Replacement: In-kind Movable Bridge – Conventional Design Option



UNION PACIFIC RAILROAD

SKIDMORE FOUNTAIN MAX STATION

KEY:

- RIGHT OF WAY IMPACTS
- NEW RAMP & STAIR ACCESS



Technical Updates

Replacement: In-kind Movable Bridge – Conventional Bridge

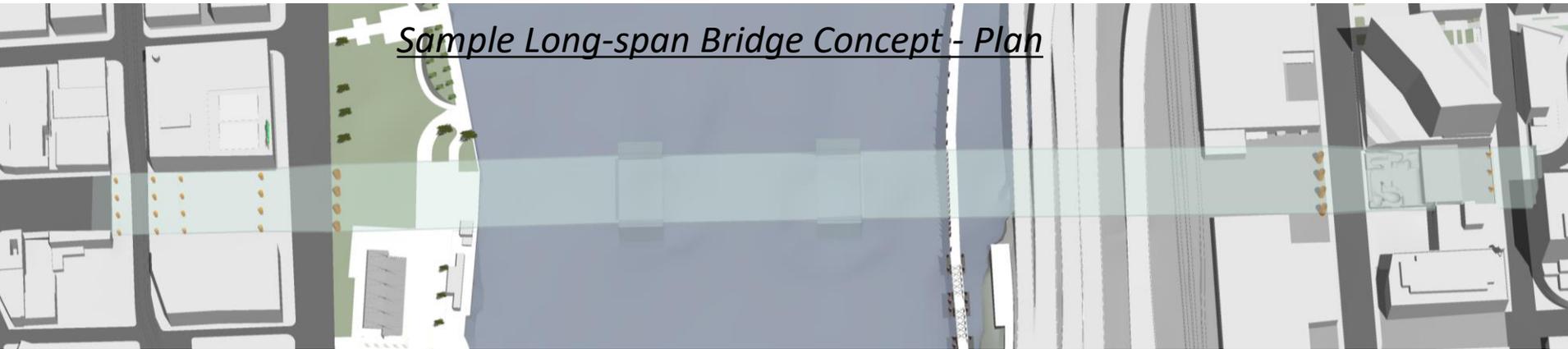


Replacement: In-kind Movable Bridge – Long-span Design Option

Sample Long-span Bridge Concept - Elevation



Sample Long-span Bridge Concept - Plan

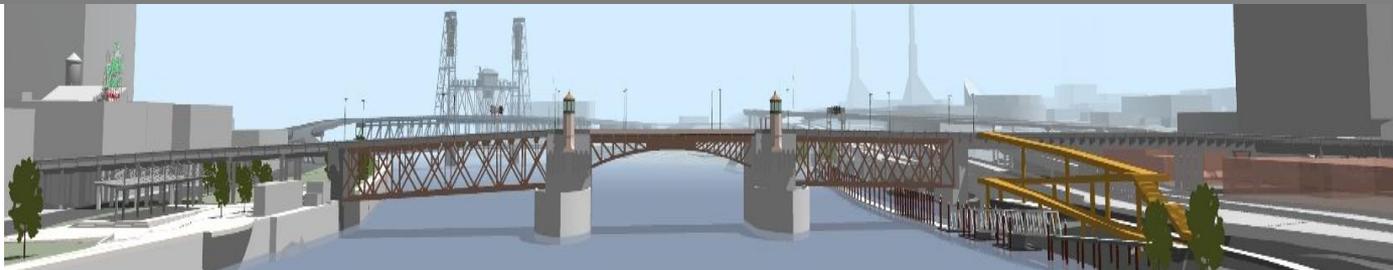


- Reduces geotechnical hazard risk by eliminating 1+ support on each side
- Provides more Waterfront Park open space
- Reduces many construction impacts
- Maintains all vehicular and bike/ped lanes, widths, and connections

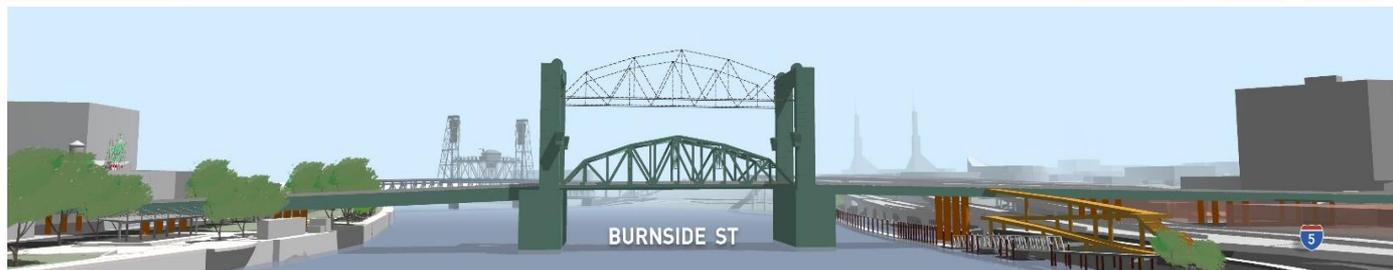
Technical Updates

Cost Risk Analysis (CRA) / Value Engineering (VE) Workshop Highlights

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Enhanced Seismic
Retrofit



\$\$
Replacement:
In-Kind (Conventional)



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Replacement:
In-Kind (Long Span)



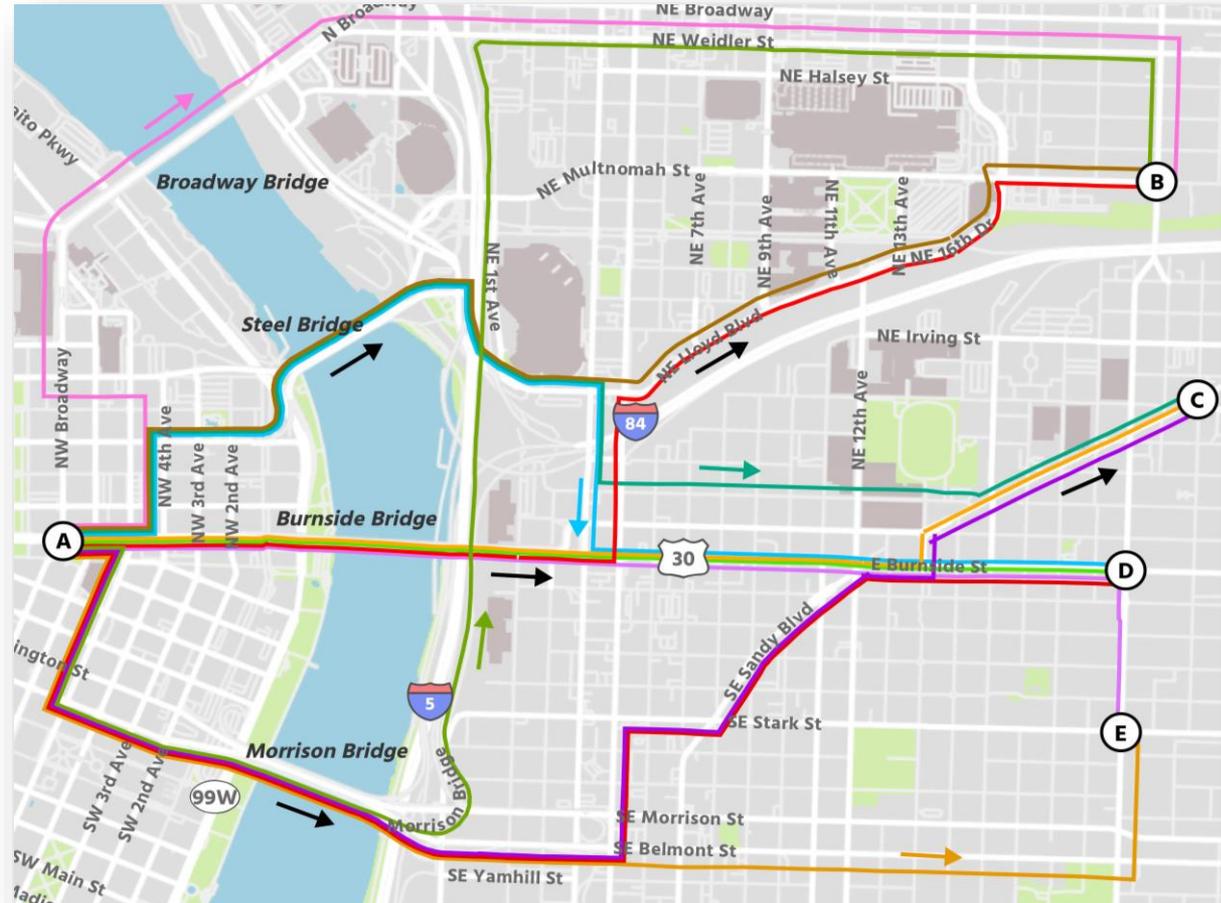
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Replacement: Couch
Extension



Technical Updates

EQRB Traffic Analysis – Approach and General Findings

Eastbound Routes



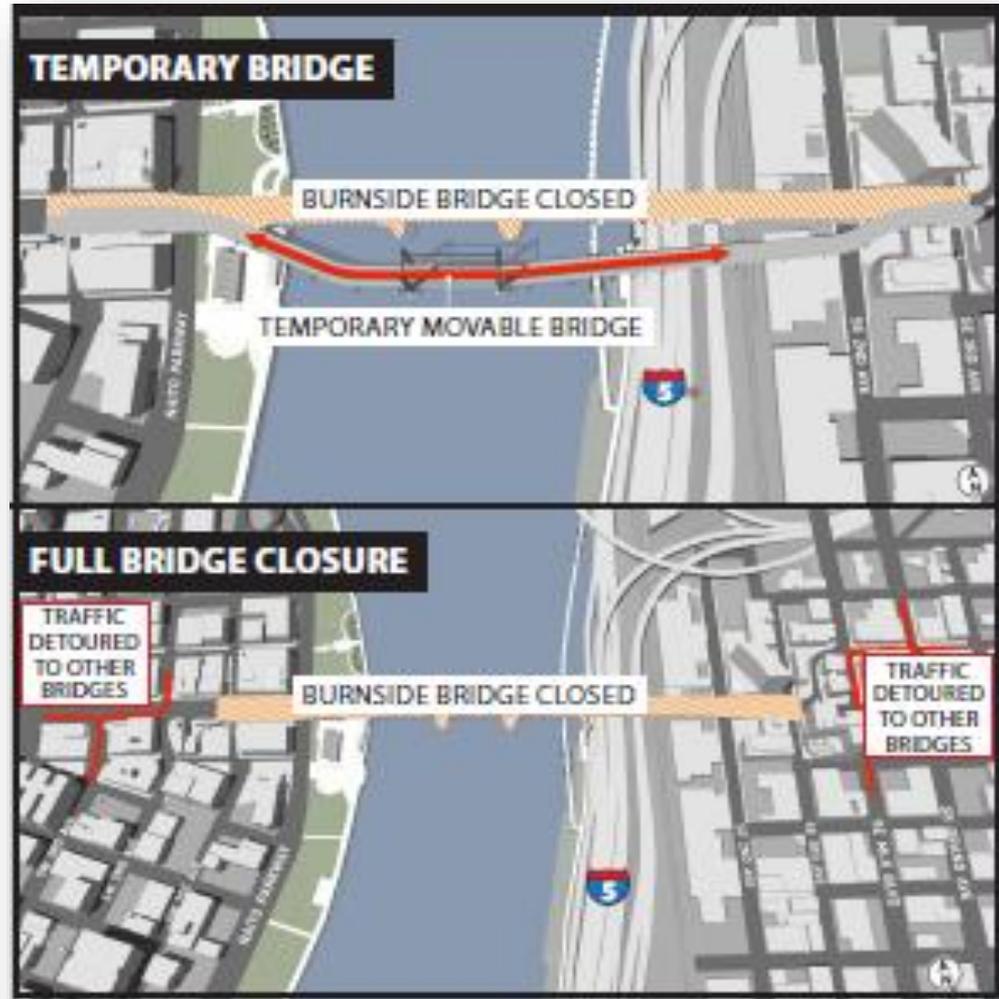
- Methodology – Metro, PBOT, and TriMet collaboration
- No meaningful operational differences between Build and No Build
- Some travel time differences per route



Traffic Analysis – Full Bridge Closure Vs Temp Bridge

Full Bridge Closure:

- **Cost:** Up to \$90M savings
- **Construction Duration:** Reduced by 1.5 years
- **Drivers:** ~2-4 min delay
- **Greenhouse Gas:** Equivalent net GHG emissions



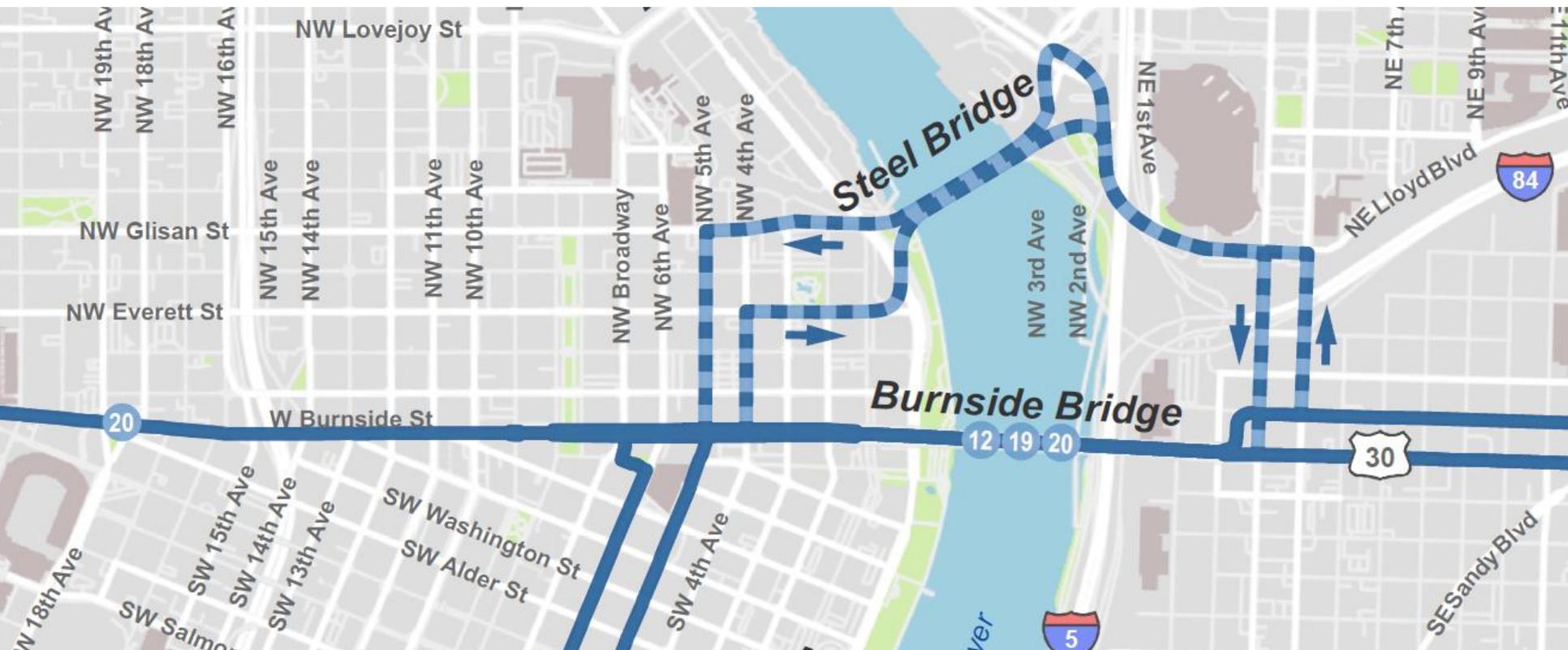
Technical Updates

Traffic Analysis – Full Bridge Closure Vs Temp Bridge

Full Bridge Closure:

- **Buses:** ~5 min travel delay; up to -3.6% ridership for Buses 12, 19, and 20

Bus Detours



Technical Updates

Traffic Analysis – Full Bridge Closure Vs Temp Bridge

Full Bridge Closure:

- **Bicyclists:** ~5-12 minute delay
- **Pedestrians:** ~10-18 minute delay
- **Safety:** Similar safety levels



CTF Update

Getting to a PA Timeline

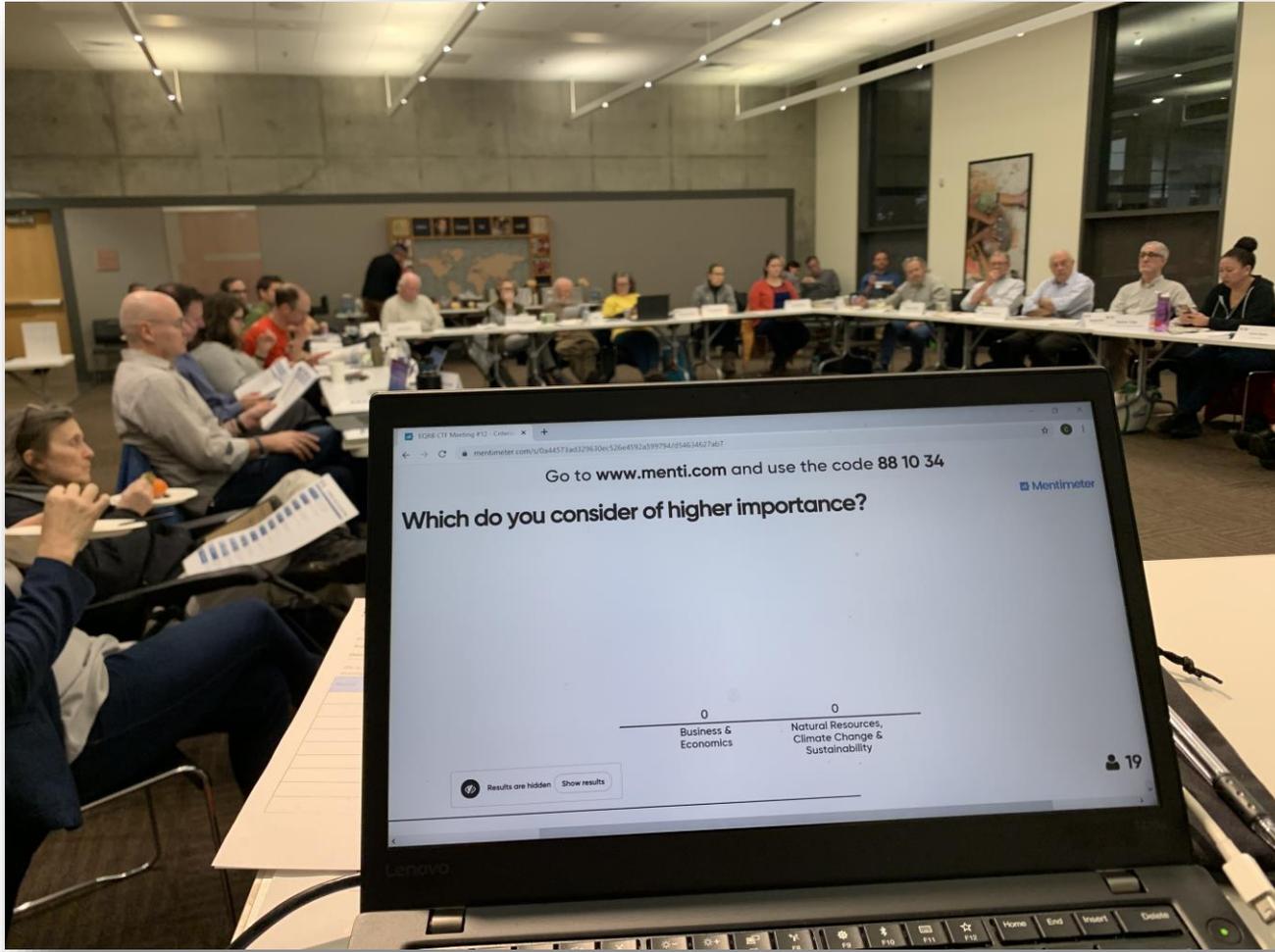
| 2019 | 2020 | | | | | | | | | | | | 2021 | |
|-----------|------|------------|------|----------|-----|------|------|-----------|------|-----|-----|-----|-----------|-----|
| | JAN | FEB | MAR | APR | MAY | JUNE | JULY | AUG | SEPT | OCT | NOV | DEC | JAN | FEB |
| CTF | | CTF CTF | | CTF | CTF | CTF | | | CTF | | | | | |
| SASG | | | SASG | WORKSHOP | TAC | SASG | | | SASG | | | | | |
| COMMUNITY | | | | | | | | COMMUNITY | | | | | COMMUNITY | |
| PG | | | | | | | | | | PG | | | | |

- Legend:**
- PA Preferred Alternative
 - DEIS Draft Environmental Impact Statement
 - CTF Community Task Force
 - SASG Senior Agency Staff Group
 - PG Policy Group
 - TAC Technical Advisory Committee



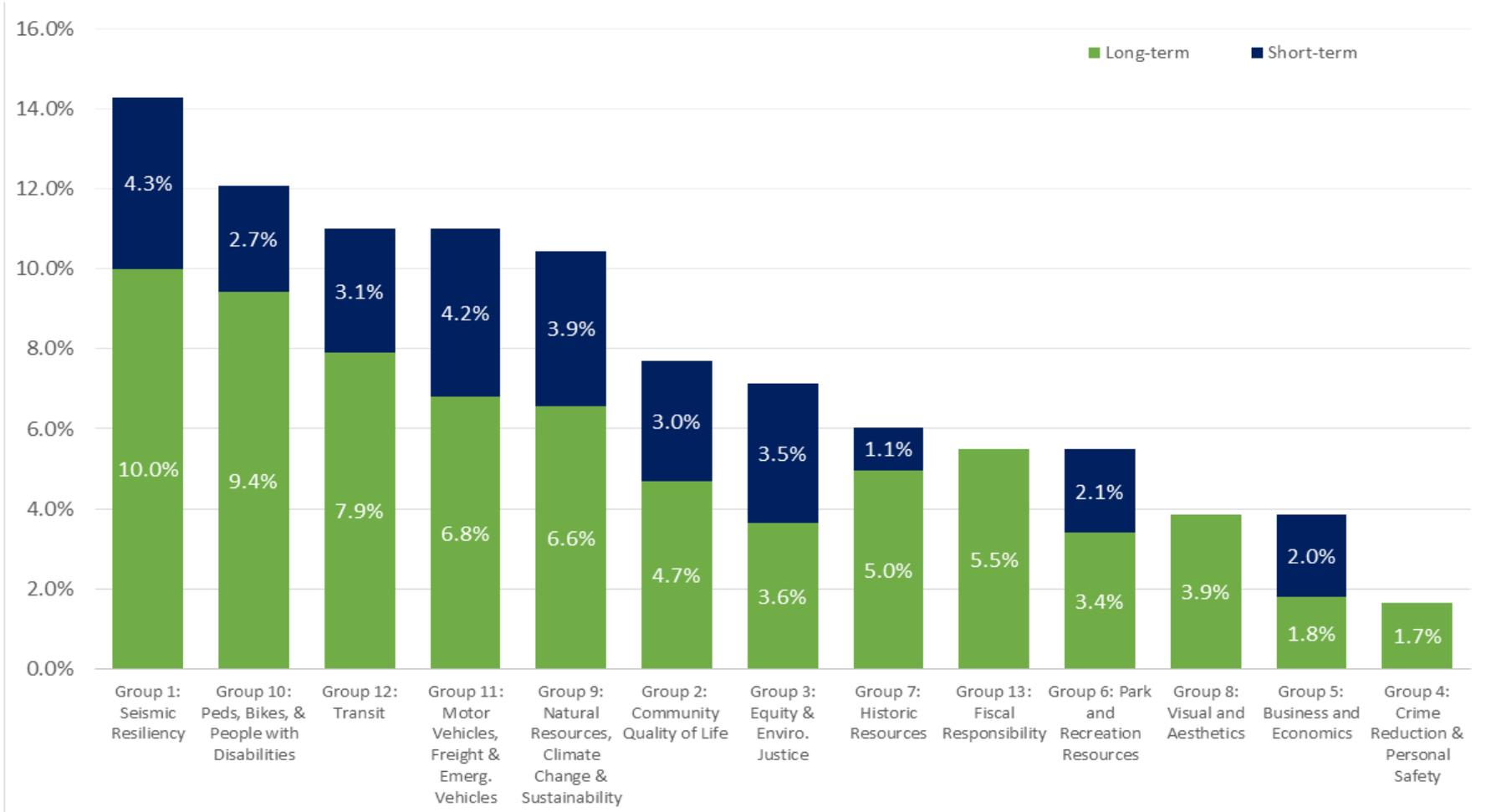
CTF Update

Weightings – Voting Exercise



CTF Update

Weightings Results





Multnomah County is creating an earthquake-ready downtown river crossing.

April 21 and 22, 2020

Joint Agency Evaluation Criteria Ratings Workshop

| | |
|------------------|--|
| Project: | Earthquake Ready Burnside Bridge |
| Subject: | Joint Agency Evaluation Criteria Ratings Workshop |
| Date: | April 21 and 22, 2020 |
| Time: | Please attend relevant session times |
| Location: | HDR, 1050 SW 6th Ave, Suite 1800, Portland, OR – 17 th Floor Downing Rm |

PURPOSE

- To partner with agency representatives to obtain feedback on rating definitions for the evaluation measures.

AGENDA

- Each session will cover:
 - Welcome and Introductions
 - Evaluation Criteria and Measures Overview
 - Ratings Discussion
 - Next Steps/Action Items

DAY 1: TUESDAY, APRIL 21, 2020

| Time | Session Topics | Session Leads |
|--------------------|--|---------------|
| 8:50-9:00 (10 min) | Arrivals and Check-in (at 18th Floor Reception) | |
| 9:00-10:00 (60) | Seismic Resiliency | Drahota |
| 10:00-10:10 (10) | Session Rotation | |
| 10:10-11:10 (60) | Fiscal Responsibility | Drahota |
| 11:10-11:20 (10) | Session Rotation | |
| 11:20-12:20 (60) | Motor Vehicles, Freight and Emergency Vehicles | Drahota |
| | Session Rotation and Lunch Break | |
| | Pedestrians, Bicyclists and People with Disabilities | Drahota |
| | | Heilman |



Natural Resources, Climate Change & Sustainability

Measure: Estimated changes in treatment of stormwater generated from impervious surface compared to No-build.

| 9a1 | Score | Rating descriptions |
|-----|-------|---|
| A | 5 | Highest increase in Contributing Impervious Area (area where stormwater will be treated) compared to No-build |
| | 3 | Medium increase in Contributing Impervious Area (area where stormwater will be treated) compared to No-build |
| | 1 | Lowest increase in Contributing Impervious Area (area where stormwater will be treated) compared to No-build |

Measure: Estimated long-term changes in flood levels.

| | | |
|---|---|--|
| B | 5 | Lowest new encroachment into floodplain or floodway |
| | 3 | Medium new encroachment into floodplain or floodway |
| | 1 | Highest new encroachment into floodplain or floodway |

Measure: Estimated area of disturbance of potentially contaminated river substrate.

| | | |
|---|---|--|
| C | 5 | Higher potential area within coffer dams results in largest area of sediment clean up, which is a benefit to habitat |
| | 3 | Medium potential area within coffer dams results in largest area of sediment clean up, which is a benefit to habitat |
| | 1 | Lower potential area within coffer dams results in largest area of sediment clean up, which is a benefit to habitat |

Preliminary Sample



Early Findings

Range of Alternatives – Enhanced Seismic Retrofit



Representative Image

- Shortest construction duration
- Highest long-term maintenance cost
- Highest park impacts
- Highest social service impacts
- Least opportunity for bike / pedestrian improvements
- Least impacts to historic bridge
- Highest river impacts
- Lowest construction-related GHG emissions
- Highest risk from liquefiable soils

Early Findings

Range of Alternatives – Replacement In-Kind *Conventional*

Representative Image



- 2nd lowest cost alternative (the Long Span option costs less)
- Best opportunities for bike / pedestrian improvements
- Less impact to Seawall and Burnside Skatepark
- Preserves access to Portland Rescue Mission during construction
- Highest impact to existing historic Burnside Bridge



Early Findings

Range of Alternatives – Replacement In-Kind *Long-Span*

Representative Image – Tied Arch



- **Lowest cost**
- **Lowest risk from liquefiable soils**
- **Most opportunities for open park spaces**
- **Shortest duration parks closure**
- **Smallest footprint and impact to natural resources**
- **Lowest impact to Seawall**
- **Best opportunities for bike / pedestrian improvements**
- **Lowest impact to Skatepark**
- **Preserves access to Portland Rescue Mission during construction**
- **Highest impact to historic Burnside Bridge**



Environmental Tech Reports

Early Findings

Range of Alternatives – Replacement Couch Extension



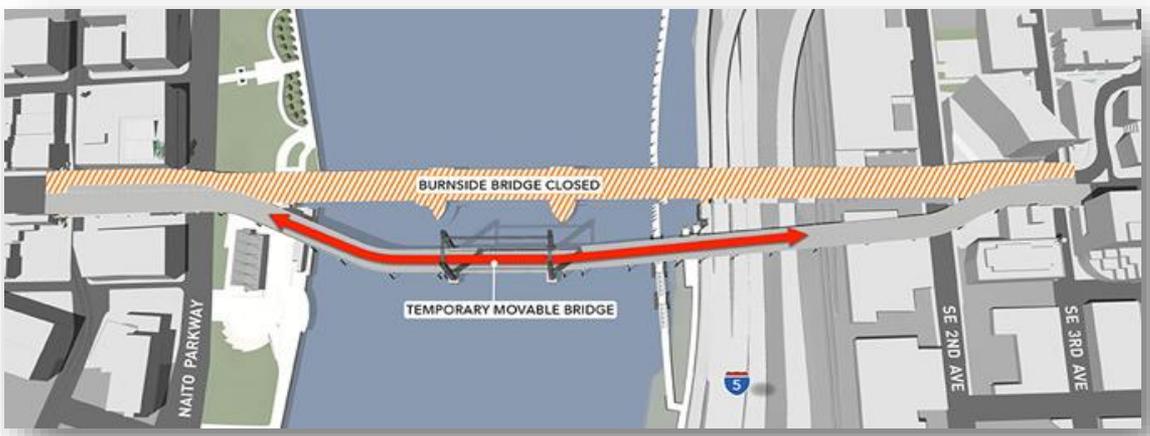
- **Highest cost**
- **Most gradual alignment curvature for transit operations**
- **Higher business displacements and permanent access changes**
- **Less impact to Seawall**
- Best opportunities for bike / pedestrian improvements
- Lowest impact to Skatepark
- Preserves access to Portland Rescue Mission during construction
- Highest impact to historic Burnside Bridge



Environmental Tech Reports

Early Findings

Traffic Management – Temporary Bridge

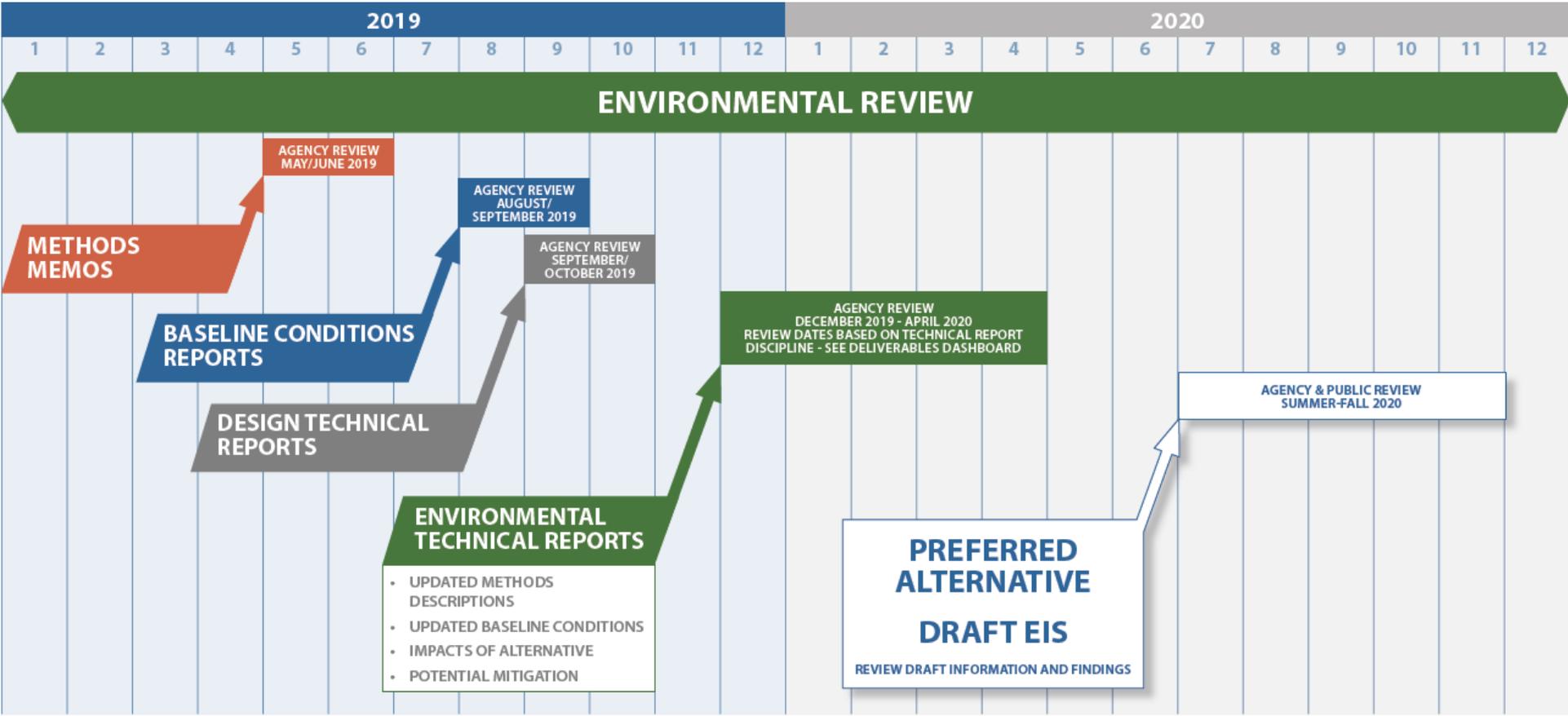


- Maintains 1-lane of traffic in each direction plus bike / pedestrian access across river
- Less travel time delay and better access
- Adds 1.5 years to construction duration
- Adds \$60-90 million to overall project cost
- Higher impacts to parks (including partial demo of Burnside Skatepark and longer park closures)
- Higher impacts to natural resources
- Highest GHG emissions



Environmental Tech Reports

Status of Tech Report Reviews



Status of Tech Report Reviews



Batch 3 comments due: 4/6

- Social/Neighborhoods
- Economics
- Public Services
- Climate Change

Batch 4 comments due: 4/17

- Section 4(f) and 6(f)
- Cultural Resources
- Sustainability
- Environmental Justice/Equity
- Health Impact Assessment

Upcoming Meetings

- Joint Agency Criteria Ratings Workshop – 4/21 & 4/22
- CTF – 4/27, 5/18 & 6/14
- City TAC – May
- SASG – June
- Policy Group Briefings – June
- Policy Group – October



Closing Remarks and Adjourn

Thank you!

