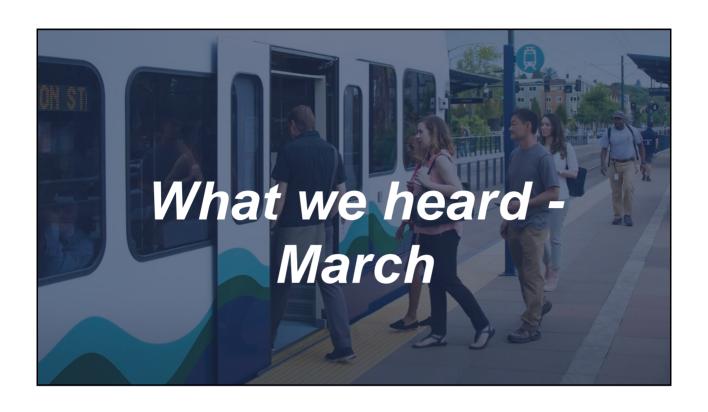
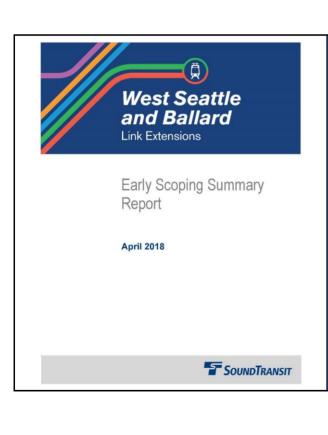


Agenda

- Welcome & Introductions
- Previous Meeting Summary
- > What We Heard March
- Alternatives Development Process
- Level 1 Alternatives Evaluation Results
- Next Steps & Next Meeting





Early Scoping Summary Report

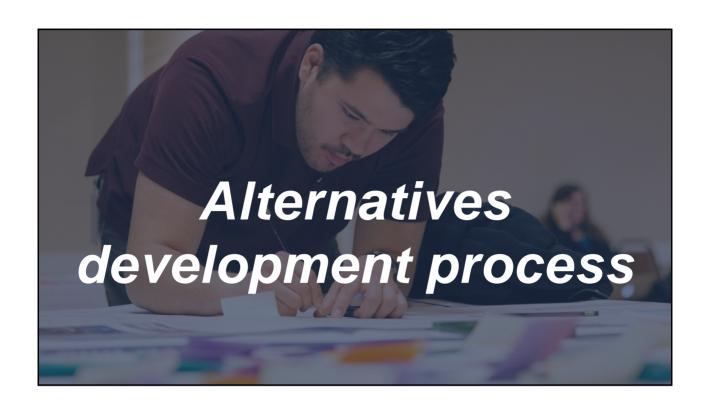
- Early scoping: Feb. 2 March 5
- 3 public meetings, 1 agency meeting and online open house
- 2,800+ total comments received via meetings and other methods
- All comments captured in Early Scoping Summary Report

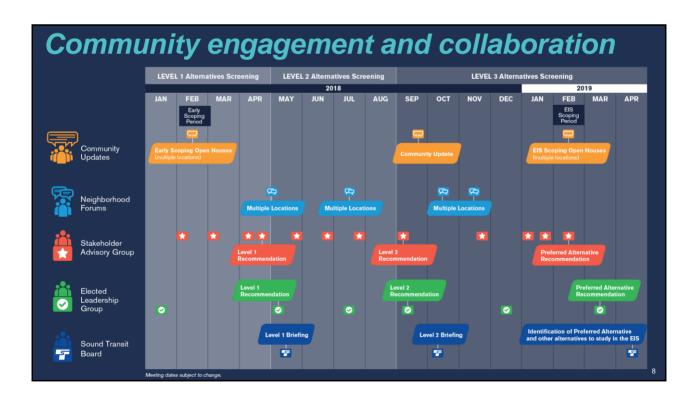


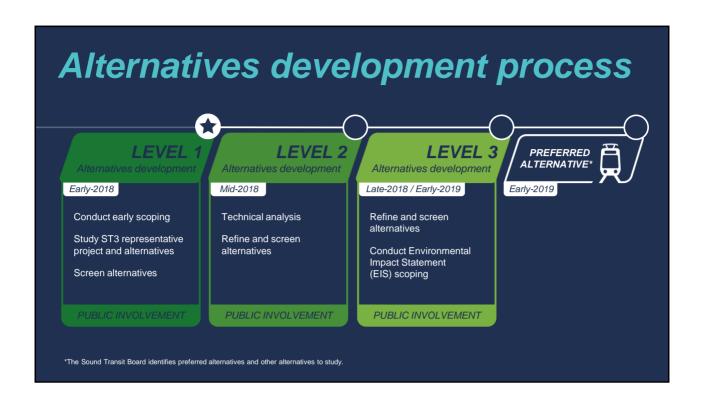


Neighborhood forums Spring Schedule

- 4/21: Chinatown / Int'l District
- 4/23: Denny / SLU / Seattle Center
- 5/2: Midtown / Westlake
- 5/5: Delridge / Avalon / Alaska Junction
- 5/9: SODO / Stadium
- 5/12: Ballard / Interbay / Smith Cove



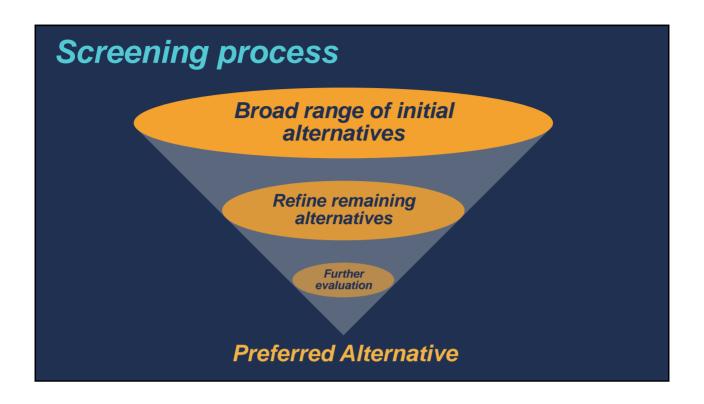




Where we're going

Getting to a Level 1 recommendation

- Today's meeting, April 17th Learn about the Level 1 alternatives and evaluation results
- Next meeting, April 24th Collectively make recommendations that will be shared with the Elected Leadership Group and Sound Transit Board



- Provide high quality rapid, reliable, and efficient peak and off-peak light rail transit service to communities in the **project** corridors **defined in ST3**.
- Improve regional mobility by increasing connectivity and capacity through downtown Seattle to meet projected transit demand.
- Connect regional growth centers as described in adopted regional and local land use, transportation, and economic development plans and Sound Transit's Regional Transit Long-Range Plan.
- Implement a system that is consistent with the ST3 Plan that established transit mode, corridor, and station locations and that is technically feasible and financially sustainable to build, operate, and maintain.
- Expand mobility for the corridor and region's residents, which include transit dependent, low income, and minority populations.
- Encourage equitable and sustainable urban growth in station areas through support of transit-oriented development, station access, and modal integration in a manner that is consistent with local land use plans and policies.
- Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built and social environments through sustainable practices.

Evaluation criteria

- Reliable service
- Travel times
- Regional connectivity
- · Transit capacity
- Projected transit demand
- Regional growth centers served
- ST Long-Range Plan consistency
- ST3 consistency
- · Technical feasibility

- · Financial sustainability
- · Historically underserved populations
- Station area land use plan consistency
- · Modal integration
- Station area development opportunities
- Environmental effects
- Traffic operations
- Economic effects (new)

Purpose and need



Provide high quality rapid, reliable and efficient peak and off-peak light rail transit service to communities in the *project* corridors *defined in ST3*

Level 1 criteria and measure

Reliable service

• Potential service interruptions and recoverability

Travel times

Light rail travel times



Improve regional mobility by increasing connectivity and capacity through downtown Seattle to meet projected transit demand

Level 1 criteria and measure

Regional connectivity

 Network integration and operational flexibility to meet future demand

Projected transit demand

Ridership potential

Transit capacity

· Passenger carrying capacity in downtown

15

Purpose and need



Connect regional growth centers as described in adopted regional and local land use, transportation and economic development plans and Sound Transit's Long-Range Plan

Level 1 criteria and measure

Regional centers served

Station proximity to PSRC-designated regional centers

Sound Transit Long-Range Plan consistency

Accommodates future light rail extensions beyond ST3



Implement a system that is consistent with the ST3 Plan that established transit mode, corridor and station locations and that is technically feasible and financially sustainable to build, operate and maintain

Level 1 criteria and measures

ST3 consistency

- Mode, route and general station locations per ST3
- Potential operating plan effects

Technical feasibility

- Engineering constraints
- Constructability issues
- · Operational constraints

Financial sustainability

 Qualitative capital cost comparison

17

Purpose and need



Expand mobility for the corridor and region's residents, which include transit dependent, low income and minority populations

Level 1 criteria and measure

Historically underserved populations

Opportunities for historically underserved populations



Encourage equitable and sustainable urban growth in station areas through support of transit-oriented development, station access and modal integration in a manner that is consistent with local land use plans *and policies*

Level 1 criteria and measures

Station area land use plan consistency

- General station locations consistent with local land use plans
- Station proximity to Seattle-designated urban centers / villages

Modal integration

- Bus / rail and rail / rail integration
- Bicycle, pedestrian and persons with limited mobility connectivity

Station area development opportunities

Development potential

19

Purpose and need



Preserve and promote a healthy environment *and economy* by minimizing adverse impacts on the natural, built *and social* environments through sustainable practices

Level 1 criteria and measure

Environmental effects

- Protected natural resources
- Protected built and social environment
- Burden on historically underserved populations

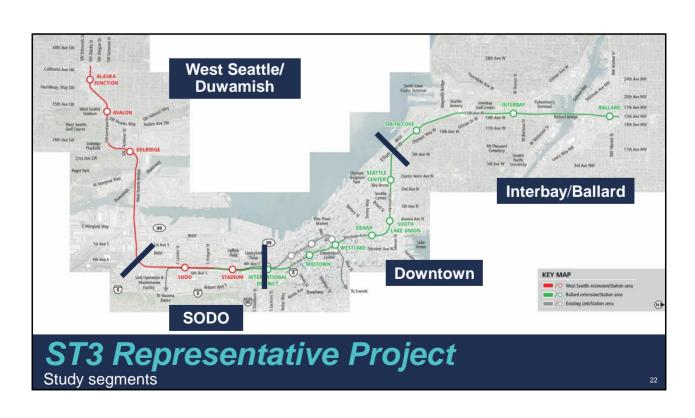
Economic effects

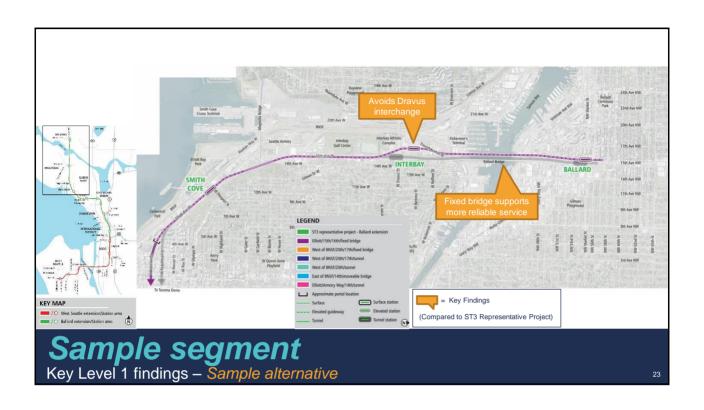
- Freight movement and access on land and water
- Business and commerce effects

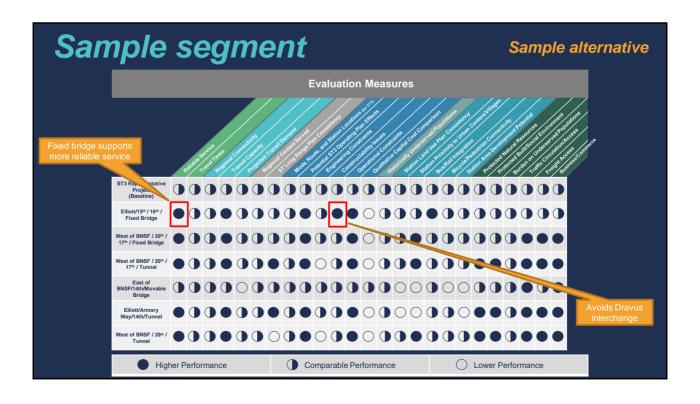
Traffic operations

Traffic circulation and access

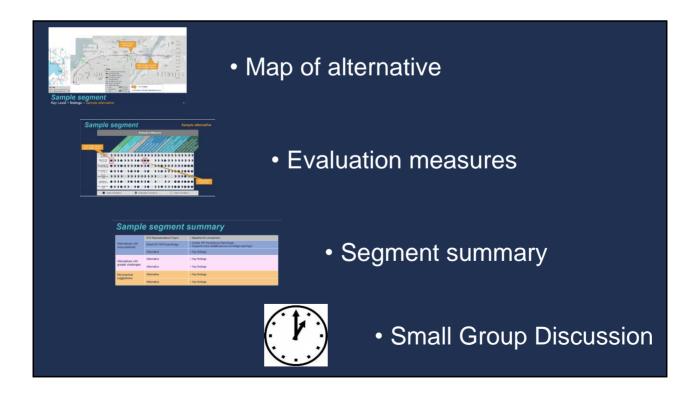




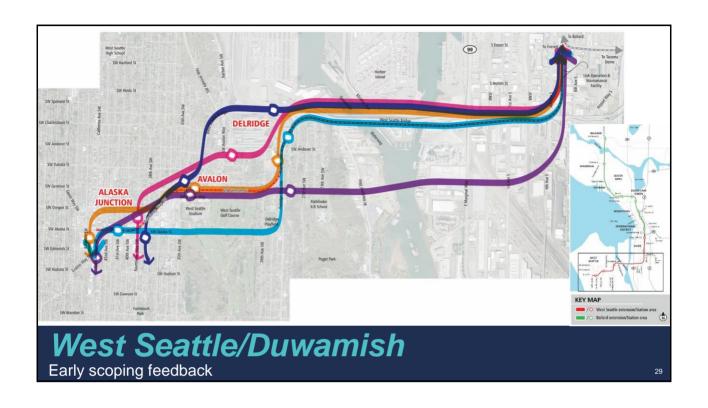




Sample segment summary ST3 Representative Project Baseline for comparison Avoids 15th Ave/Dravus interchange Alternatives with Elliott/15th/16th/Fixed Bridge • Supports more reliable service more potential Alternative Key findings Alternative Key findings Alternatives with greater challenges Alternative · Key findings Key findings Alternative Not practical suggestions Alternative Key findings



West Seattle/Duwamish ST3 Representative Project Pigeon Ridge/West Seattle Tunnel West Seattle Bridge/ Fauntleroy Yancy Street/West Seattle Tunnel Oregon Street/Alaska Junction West Seattle Golf Course/ Alaska Junction

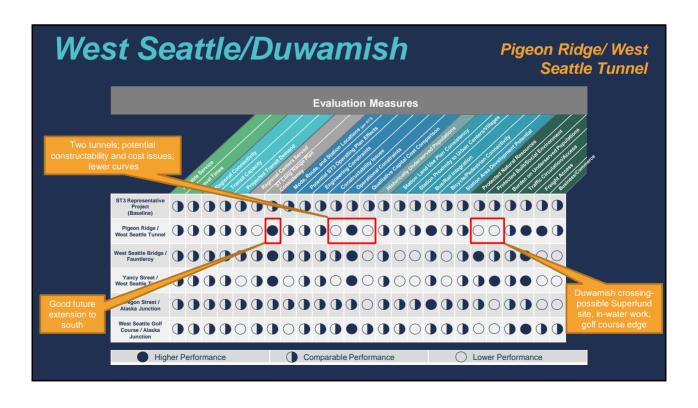




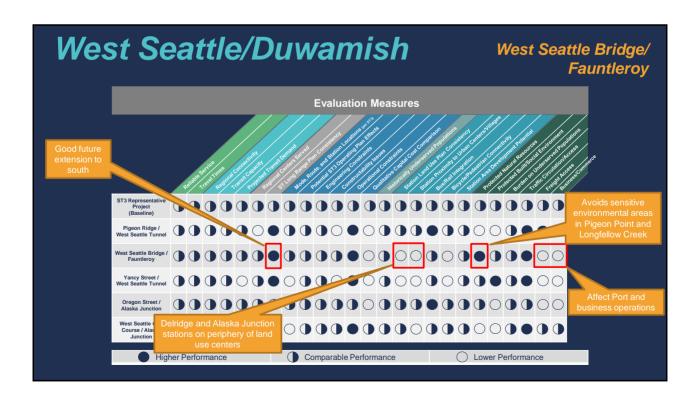




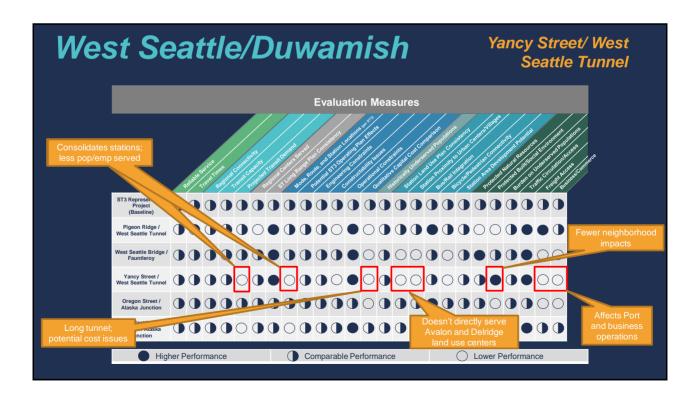




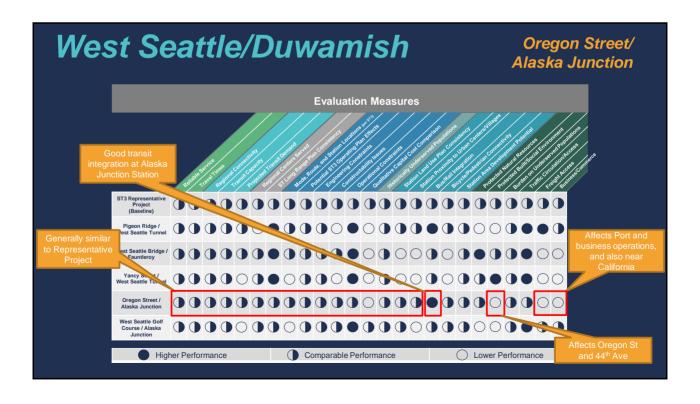




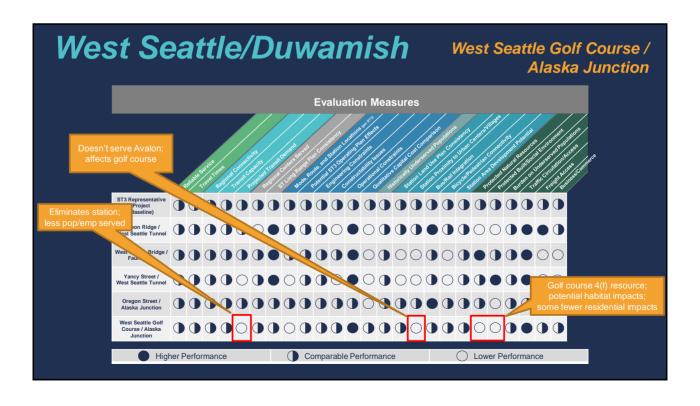












Section 4(f)

- Stipulates that United States Department of Transportation (USDOT)
 agencies, such as the Federal Transit Administration (FTA), cannot
 approve the use of land from publicly owned parks, recreational
 areas, wildlife and waterfowl refuges, or public and private historical
 sites unless:
 - There is *no feasible and prudent avoidance alternative* to the use of land; and includes all possible planning *to minimize harm to the property* resulting from such use;

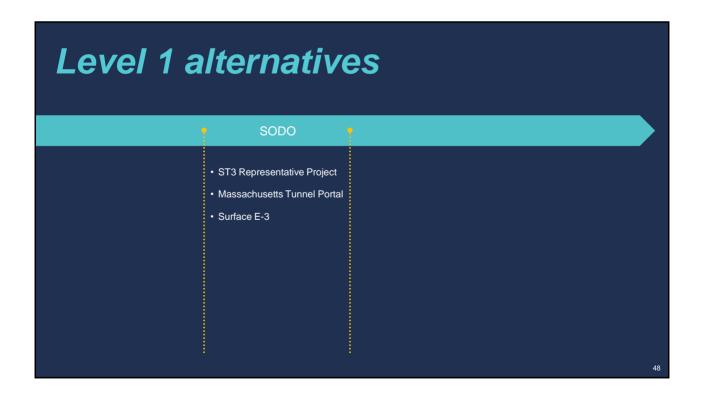
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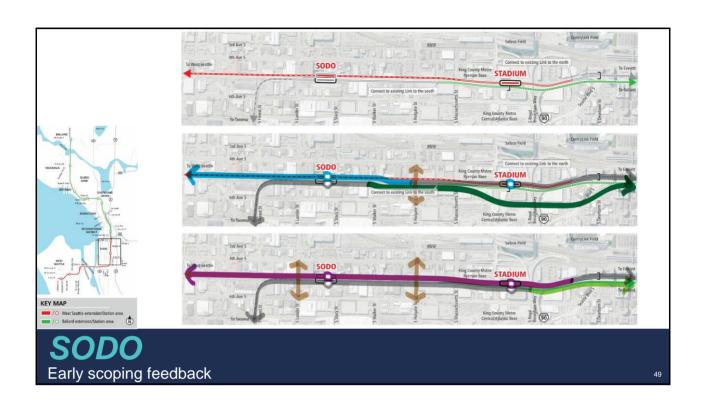
- The Administration determines that the use of the property will have a **de minimis impact**

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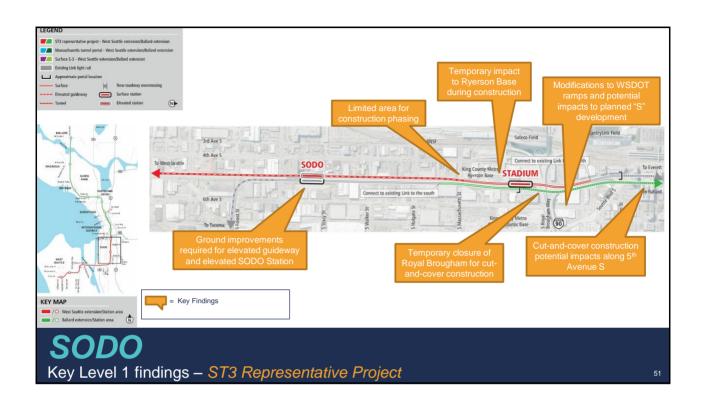
West Seattle/Duwamish summary			
Alternatives with more potential	ST3 Representative Project	Baseline for comparison	
	Oregon Street/Alaska Junction	 Avoids Fauntleroy and Alaska; better orientation south Affects Oregon St and 44th Ave 	
	West Seattle Bridge/Fauntleroy	Lessens effects to Junction and Delridge; better orientation south Creates isolated Delridge Station	
	Pigeon Ridge/West Seattle Tunnel	 Lessens effects to Port, Junction, Delridge; better orientation south Requires two tunnels; may require 3rd Party funding 	
Alternatives with greater challenges	Yancy Street/West Seattle Tunnel	 Lessens effects to Junction and Delridge; better orientation south Consolidates stations; potentially not consistent with ST3 Plan Requires tunnel; may require 3rd Party funding 	
	West Seattle Golf Course/Alaska Junction (Tunnel)	 Crosses golf course, Section 4(f) Lessens effects to Junction, Delridge Eliminates station; potentially not consistent with ST3 Plan 	
Not practical suggestions	Tunnel under Duwamish	Impractical tunnel depth and length	
	West Seattle Bridge	Existing structure not built to accommodate LRT Constructability issues	
	Gondola, rail/bus bridge	Mode not consistent with ST3 Plan	
	Extensions to Alki, Admiral, etc.	Not included in ST3 Plan or long range plan	
		•	

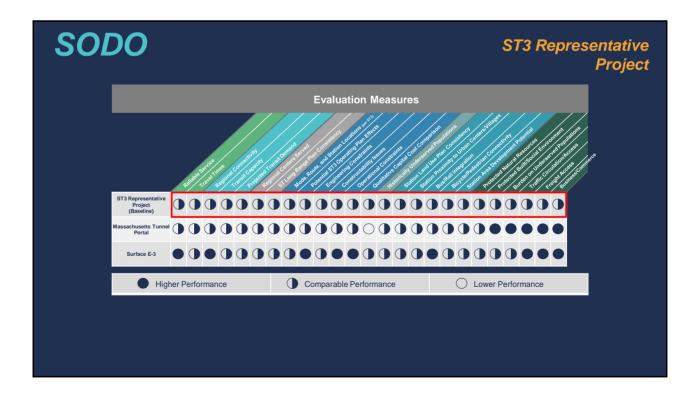


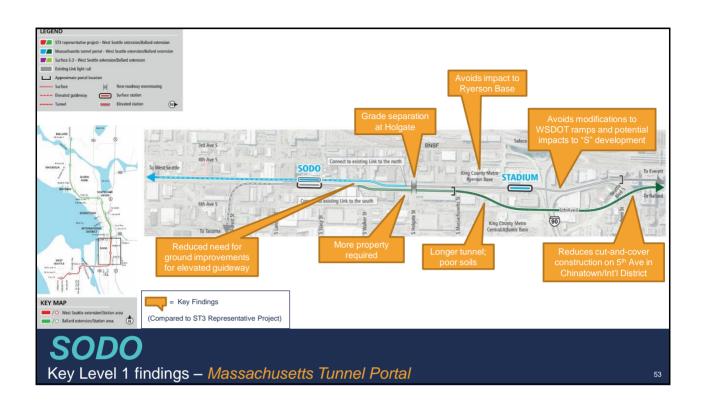


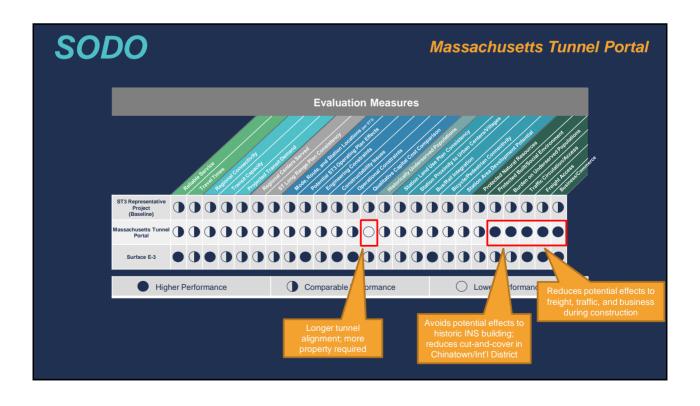


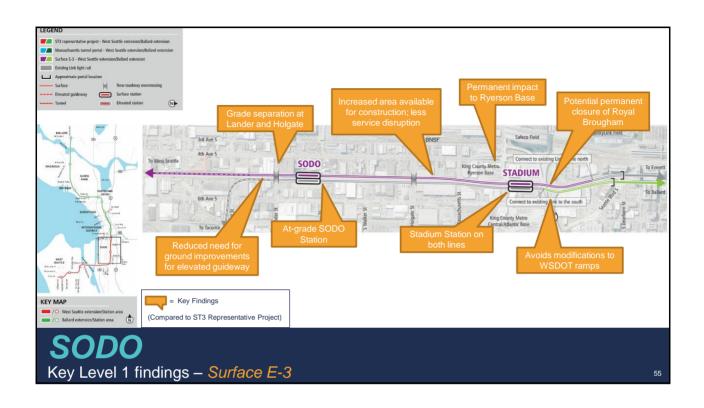


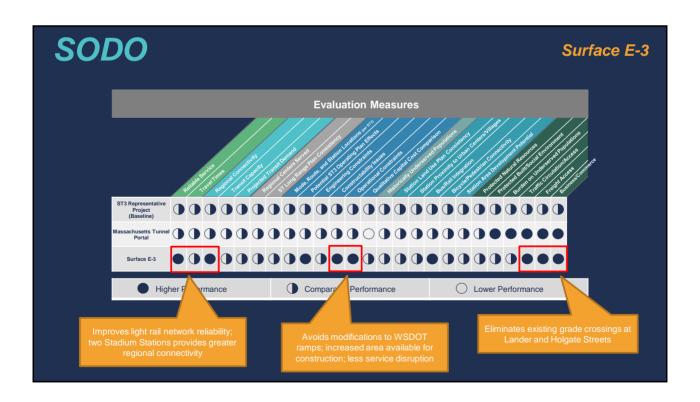




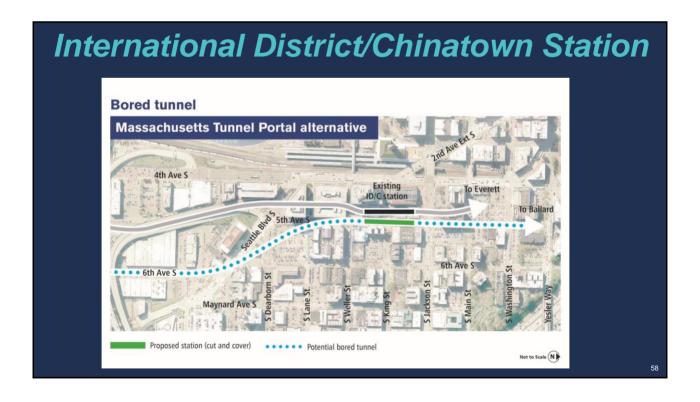








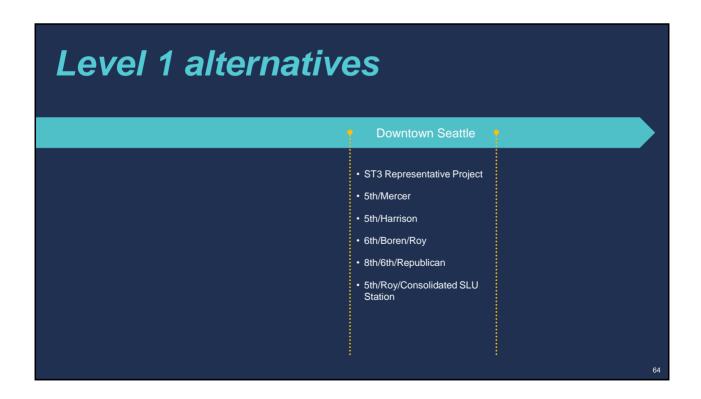




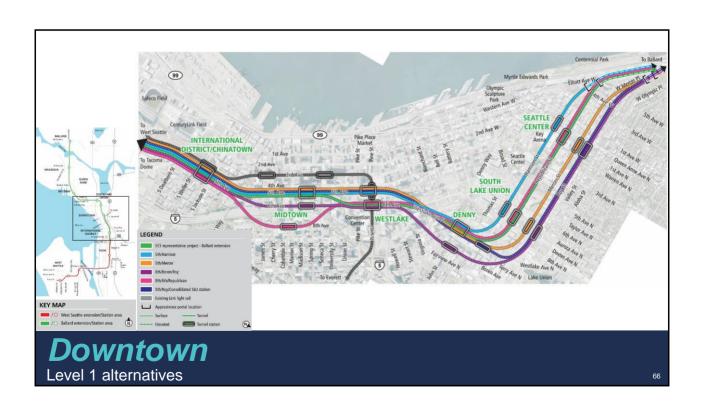


SODO summary			
Alternatives with more potential	ST3 Representative Project	Baseline for comparison	
	Surface E-3	 Less service disruption during construction Accommodates Stadium Station on both lines Eliminates existing grade crossings at Lander, Holgate; closes Royal Brougham 	
	Massachusetts Portal	Reduces cut-and-cover construction on 5 th Ave in Chinatown/Int'l District Less service disruption during construction Eliminates existing grade crossing at Holgate Requires longer tunnel; more property; may require 3 rd Party funding	
Not practical suggestions	Maintain buses on E-3	Not practical due to ROW constraints	
	First Ave alignment	Alignment and stations locations not consistent with ST3	
	Design for potential extension south to Georgetown	Not included in ST3 or long range plan	





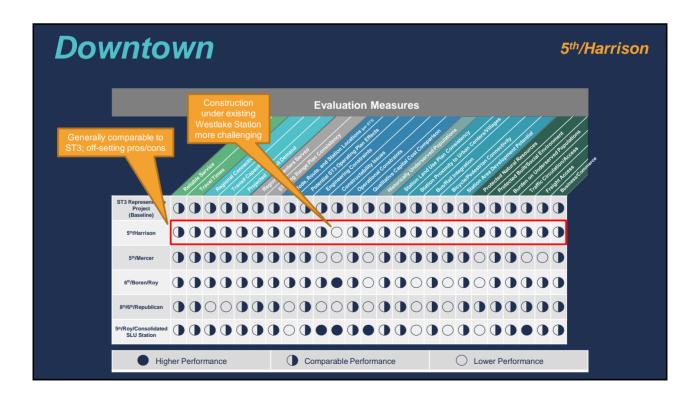














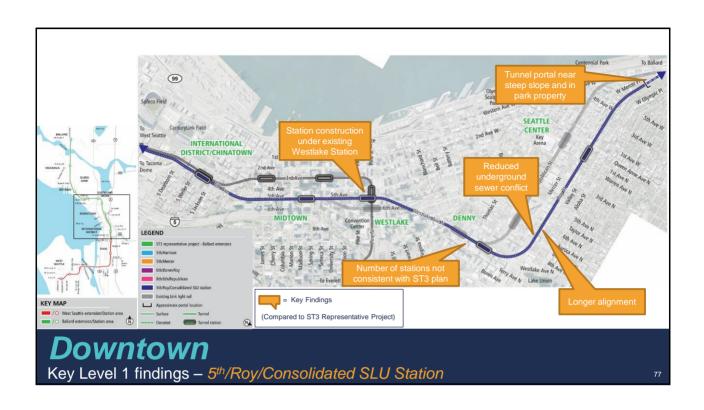












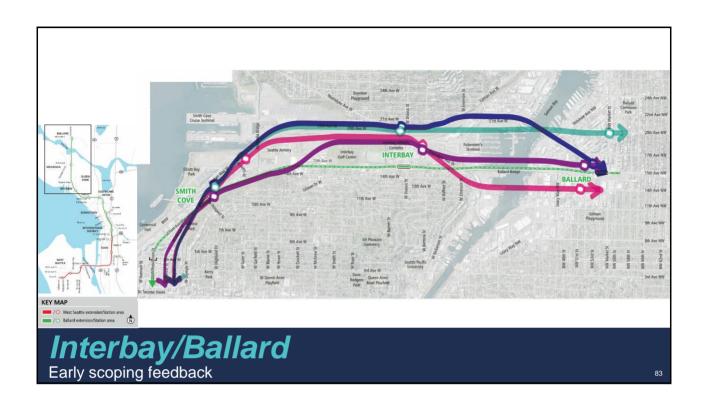


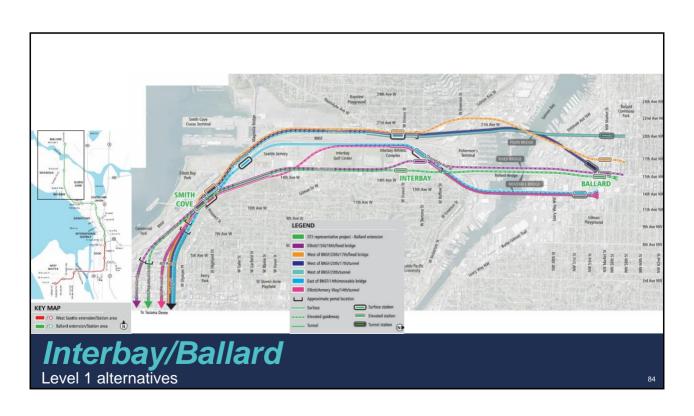
Down	itown sumi	mary	
	ST3 Representative Project	Baseline for comparison	
Alternatives with more potential	5th/Harrison	Avoids utility conflicts on Republican and station under SR 99 off-ramp Decreased station coverage; potentially move Denny Station south	
	6 th /Boren/Roy	 Avoids utility conflicts on Republican and station under SR 99 off-ramp Increases construction risk due to I-5 walls along 6th Ave; avoids tiebacks on 5th Ave 	
Alternatives with greater	5 th /Mercer	Avoids utility conflicts on Republican and station under SR 99 off-ramp Increases construction risk due to large sewer on Mercer	
challenges	5 th /Roy/Consolidated SLU Station	 Avoids utility conflicts on Republican and station under SR 99 off-ramp Consolidates stations; potentially not consistent with ST3 	
	8 th /6 th /Republican (First Hill)	Increases construction risk due to two crossings under I-5 First Hill station not consistent with ST3	
Not practical	Use Downtown Seattle Transit Tunnel (DSTT)	Existing DSTT capacity constraints	
suggestions	Design for potential extensions to north and/or east	Extensions to north and/or east not included in ST3 or long range plan	
		79	



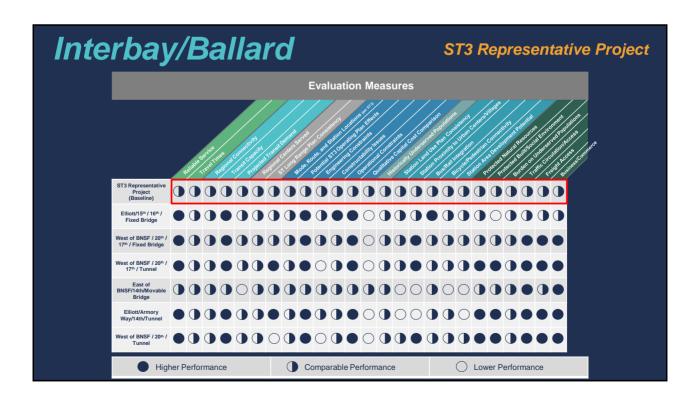
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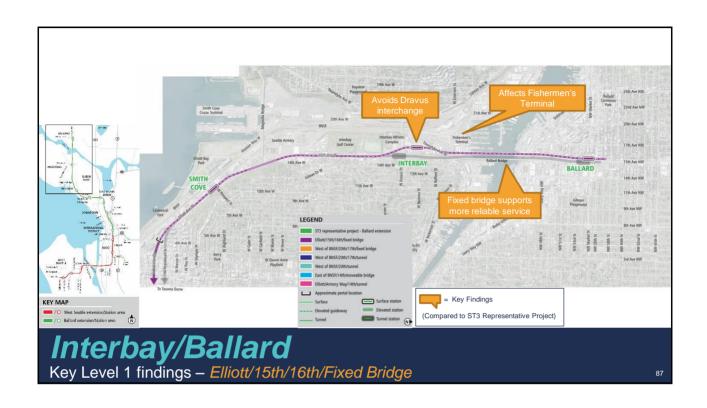
Level 1 alternatives Interbay/Ballard ST3 Representative Project Elliott/15th/16th/Fixed Bridge West of BNSF/20th/17th/Fixed Bridge West of BNSF/20th/17th/Tunnel East of BNSF/14th/Movable Bridge Elliott/Armory Way/14th/Tunnel West of BNSF/20th/Tunnel

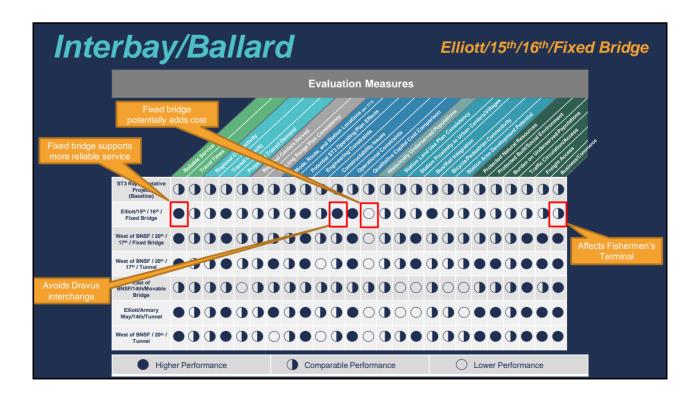


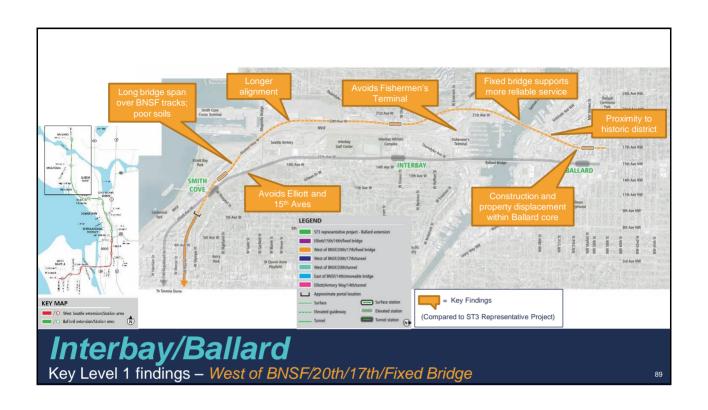


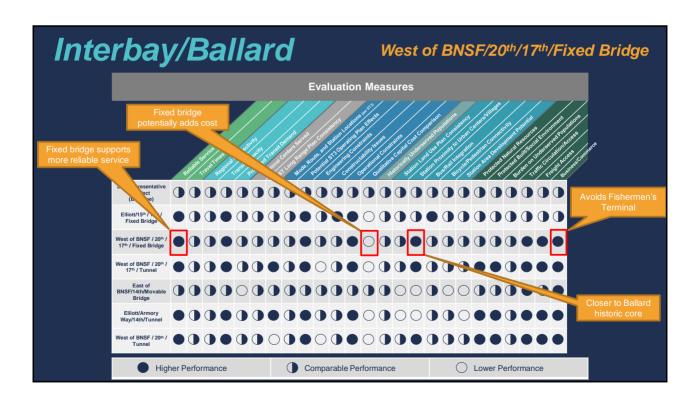


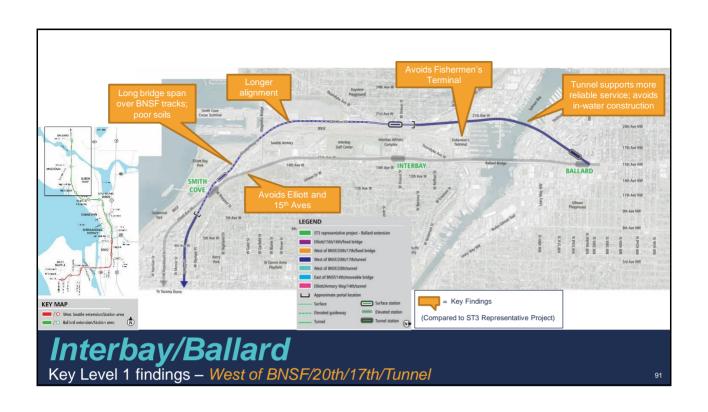


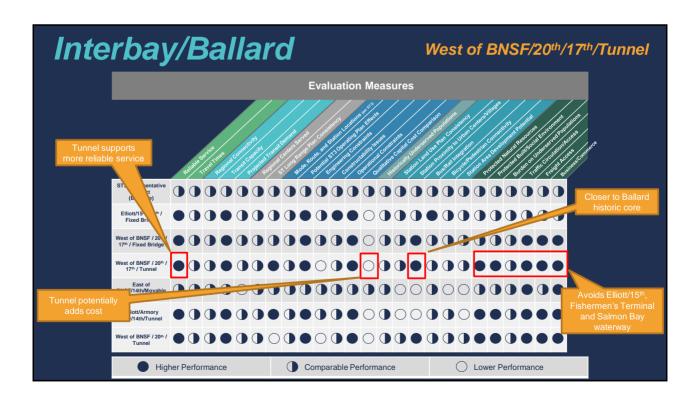


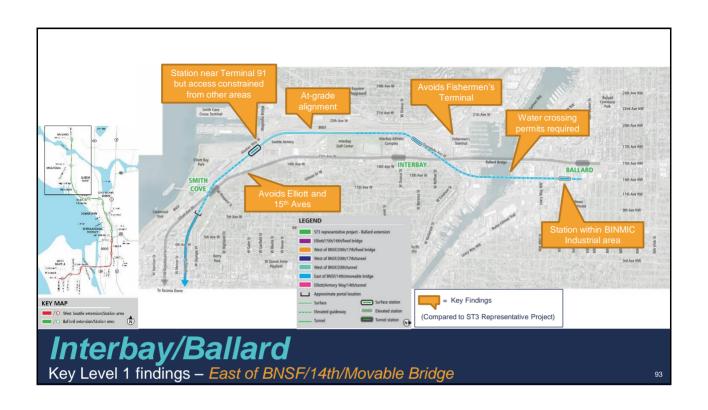


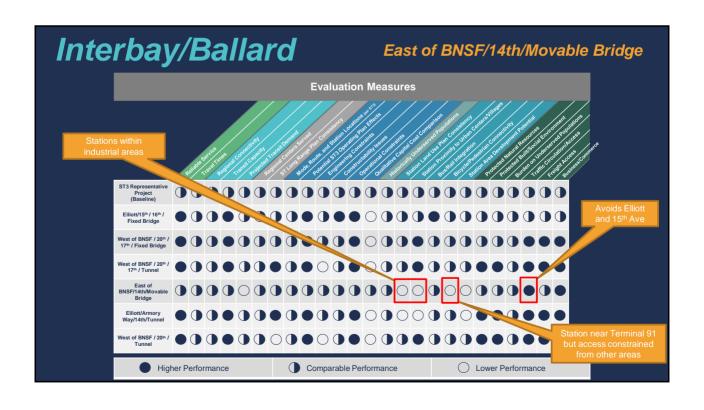


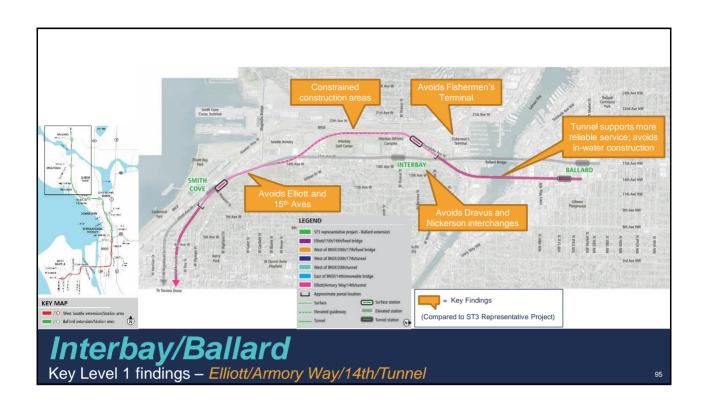


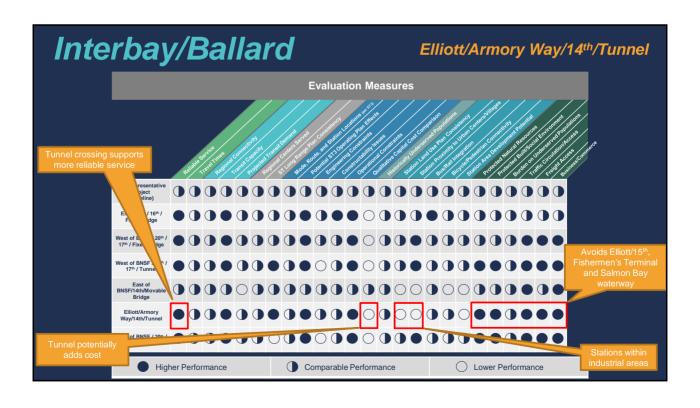


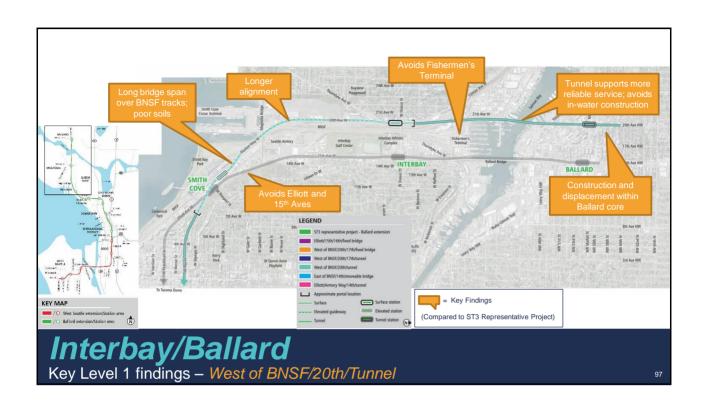


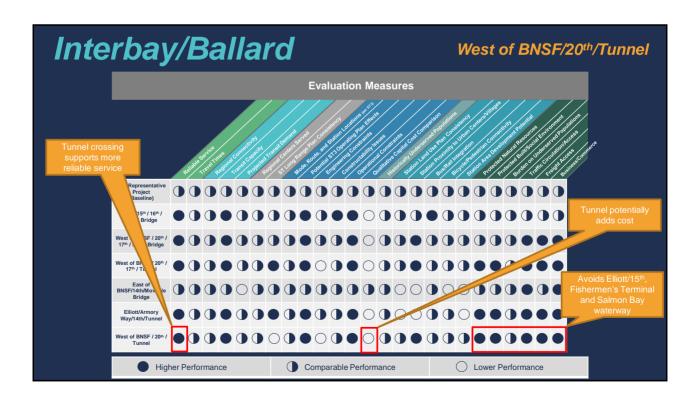




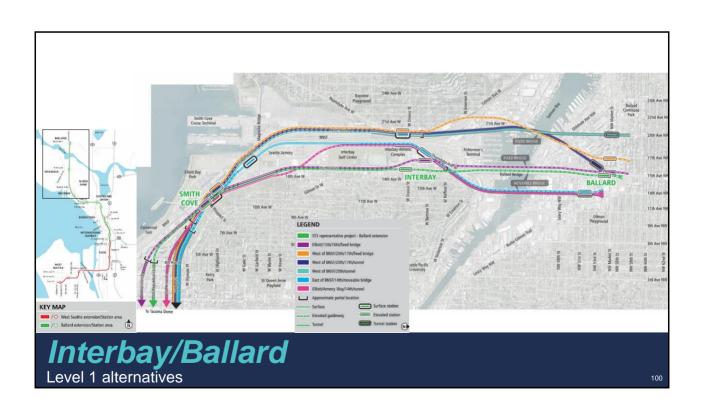








Interb	ay/Ballard s	ummary	
	ST3 Representative Project	Baseline for comparison	
Alternatives with	Elliott/15 th /16 th /Fixed Bridge	Avoids 15 th Ave/Dravus interchange Supports more reliable service (no bridge openings)	
more potential	West of BNSF/20th/17th/Fixed Bridge	Avoids Elliott Ave,15th Ave and Fishermen's Terminal Supports more reliable service	
	East of BNSF/14 th /Movable Bridge	Avoids Elliott Ave,15 th Ave and Fishermen's Terminal Locates station on 14 th Ave within industrial area	
	West of BNSF/20th/17th Tunnel	Avoids Elliott Ave, 15th Ave, Fishermen's Terminal and Salmon Bay Requires tunnel; may require 3 rd Party funding	
	Elliott/Armory Way/14 th /Tunnel	Avoids Elliott Ave, 15th Ave, Fishermen's Terminal and Salmon Bay Requires tunnel; may require 3 rd Party funding	
Alternatives with greater challenges	West of BNSF/20th/Tunnel	 Avoids Elliott Ave, 15th Ave, Fishermen's Terminal and Salmon Bay Requires longer tunnel; may require 3rd Party funding Requires construction and displacement within Ballard core 	
	Tunnel through Queen Anne/Interbay	Depth and length impractical; would affect downtown tunnel depth	
Not practical	Extensions to 65th, 85th, Northgate	Not included in ST3 plan	
suggestions	Multi-modal Salmon Bay bridge	ST3 plan defined project as rail-only bridge	
	Eliminate or add stations	Not consistent with ST3 plan	
		9	





Sample recommendation worksheet							
			Advance?	Comments/ Discussion			
Alternatives with more potential	ST3 Representative Project						
	Elliott/15 th /16 th /Fixed Bridge	Avoids 15 th Ave/Dravus interchange Supports more reliable service					
	Alternative	Key findings					
Alternatives with greater challenges	Alternative	Key findings					
	Alternative	Key findings					
Not practical suggestions	Alternative	Key findings					
	Alternative	Key findings					

51

