

West Seattle and Ballard Link Extensions

Sound Transit Board | February 28, 2019

Agenda

- Alternatives development process
- Level 3 alternatives
- Level 3 evaluation results
- Potential mix-and-match opportunities

Alternatives development process

LEVEL 1

Alternatives developmen

Early-2018

Conduct early scoping

Study ST3 representative project and alternatives

Screen alternatives

PUBLIC INVOLVEMENT

LEVEL 2

Alternatives development

Mid-2018

Technical analysis

Refine and screen alternatives

PUBLIC INVOLVEMENT

LEVEL 3

Alternatives development

Late-2018 / Early-2019

Refine and screen alternatives

Conduct Environmental Impact Statement (EIS) scoping

PUBLIC INVOLVEMENT

PREFERRED ALTERNATIVE*

Early-2019



Community engagement and collaboration









Meeting dates subject to change.

Level 3 alternatives screening

SAG Meeting #12	Jan 30	Level 3 evaluation results		
ELG Meeting #6	Feb 1	Level 3 evaluation results		
EIS Scoping Open Houses / Neighborhood Forums	Feb 27, 28 & March 7	Level 3 evaluation results		
ELG Meeting #7	March 29	CID/ Delridge station focus		
SAG Meeting #13	April 17	Level 3 recommendations		
ELG Meeting #8	April 26	Level 3 recommendations		
Sound Transit Board System Expansion Committee	May 9	Identify preferred alternative (and other EIS alternatives)		
Sound Transit Board Full Board	May 23	Identify preferred alternative (and other EIS alternatives)		

What is EIS Scoping?

- 30-day public comment period until March 18
- Seeking public feedback on scope of EIS
 - Range of alternatives
 - Topics to study
 - Purpose and need
- Helps inform Board decision on what to study in EIS*

^{*} Scope of EIS also subject to Federal Transit Administration (FTA) oversight

How to provide scoping comments

- Attend an open house:
 - West Seattle on Wednesday, Feb. 27, 6 8:30 p.m. at Alki Masonic Center
 - Ballard/Interbay on Thursday, Feb. 28, 6 8:30 p.m. at <u>Ballard High School</u>
 - Downtown on Thursday, March 7, 5 7:30 p.m. at <u>Union Station</u>
- Comment online: wsblink.participate.online
- Email us: wsbscopingcomments@soundtransit.org
- Leave a voicemail: 833-972-2666
- Mail us:
 - West Seattle and Ballard Link Extensions, c/o Lauren Swift, Sound Transit, 401 S. Jackson St., Seattle, WA 98104

Screening process

Broad range of initial alternatives

Refine remaining alternatives

Further evaluation

Preferred Alternative and other EIS alternatives

Level 3 recommendations

- Interest in additional scope items
- Additional scope items require 3rd party funding*
- Potential *recommendations*:
 - Preferred Alternative #1: If 3rd party funding not secured
 - Preferred Alternative #2: If 3rd party funding is secured.

Level 3 alternatives screening

SAG Meeting #12	Jan 30	Level 3 evaluation results
ELG Meeting #6	Feb 1	Level 3 evaluation results
EIS Scoping Open Houses / Neighborhood Forums	Feb 27, 28 & March 7	Level 3 evaluation results
ELG Meeting #7	March 29	CID/ Delridge station focus
SAG Meeting #13	April 17	Level 3 recommendations
ELG Meeting #8	April 26	Level 3 recommendations
Sound Transit Board System Expansion Committee	May 9	Identify preferred alternative (and other EIS alternatives)
Sound Transit Board Full Board	May 23	Identify preferred alternative (and other EIS alternatives)



- **ST3** Representative Project
- West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated
 - C-ID station options: 5th Ave Cut-and-Cover and 5th Ave Mined
- West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel
 - Junction station options: 41st Ave, 42nd Ave and 44th Ave
 - C-ID station options: 4th Ave Cut-and-Cover and 4th Ave Mined
 - Ballard station options: 14th Ave and 15th Ave



ST3 Representative Project

ST3 Representative Project

- West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated
- C-ID station options: 5th Ave Cut-and-Cover and 5th Ave Mined
- West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel
 - Junction station options: 41st Ave, 42nd Ave and 44th Ave
 - C-ID station options: 4th Ave Cut-and-Cover and 4th Ave Mined
 - Ballard station options: 14th Ave and 15th Ave



West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated

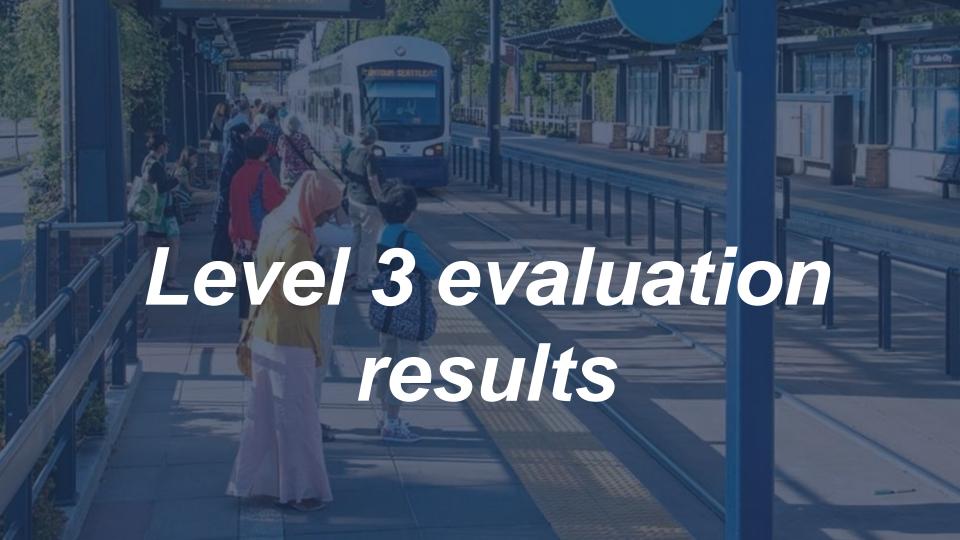
- ST3 Representative Project
- West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated
 - C-ID station options: 5th Ave Cut-and-Cover and 5th Ave Mined

West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel

- Junction station options: 41st Ave, 42nd Ave and 44th Ave
- C-ID station options: 4th Ave Cut-and-Cover and 4th Ave Mined
- Ballard station options: 14th Ave and 15th Ave



West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel



Evaluation criteria

> 17 criteria consistent in all levels of evaluation

- Reliable service
- Travel times
- Regional connectivity
- Transit capacity
- Projected transit demand
- Regional 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

Evaluation measures

> 50+ quantitative and/or qualitative *measures*

Ratings for Lower, Medium and Higher performing

Lower Performing

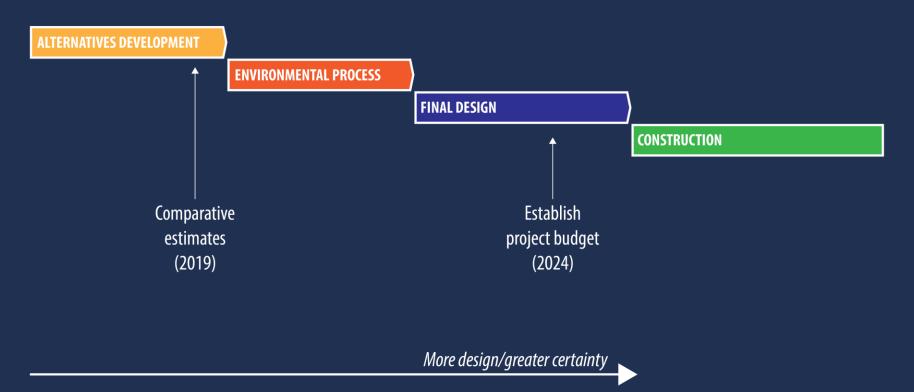
Medium Performing

Higher Performing

Comparative estimates

- > Purpose: To *inform comparison* of Level 3 alternatives
- Comparative estimates for end-to-end alternatives
 - Consistent methodology (2018\$; construction, real estate, etc.)
 - Based on limited conceptual design (less than 5% design)
 - Does not establish project budget
- Project budget established during final design (~ 2024)

Project budget



	ST3 Representative	West Seattle Elevated/C-ID 5th Ave/Downtown 6th Ave/Ballard Elevated		West Seattle Tunnel/C-ID 4th Ave/Downtown 5th Ave/Ballard Tunnel				
Evaluation Measures	Project	5th Ave Cut-and-Cover International District/ Chinatown Station		41st Ave Alaska Junction/4th Ave Cut-and Cover/14th Ave Ballard	42nd Ave Alaska Junction Station	44th Ave Alaska Junction Station	4th Ave Mined International District/ Chinatown Station	15th Ave Ballard Station
Provide high quality rapid, reliable, and efficient peak and off-peak light rail transit service to communities in the project corridors defined in ST3.								
At-grade crossings	3	1		1				
Potential service interruptions/recoverability	Lower	Medium		Medium			Lower	Medium
Improve regional mobility by increasing connectivity and capacity through downtown Seattle to meet projected transit demand.								
Network Integration	Lower	Medium		Higher			Medium	Higher
Connect regional centers as described in adop	pted regional and local	l land use, transportation, a	and use, transportation, and economic development		plans and Sound Transit's Regional Transit Long-Range Plan.			
Accommodates future LRT extension	Lower	Medium		Hig	Higher Medium		Higher	
Implement a system that is consistent with th	he ST3 Plan that establ	lished transit mode, corridor, and station locations and that is technically feasible and financially sustainable to build, operate, and maintain.						
Potential ST3 schedule effects	Higher	Higher	Medium			Lower		
Potential ST3 operating plan effects	Lower	High	ner	Higher		Medium	Higher	
Engineering constraints	Lower	Medium		Lower				
Constructability issues	Lower	Medium		Lower				
Operational constraints	Lower	Medium	Lower	Higher		Lower	Higher	
Capital costs (2018\$)	-	+\$400M	+\$500M	+\$1,900M		+\$2,100M	+\$1,900M	
Encourage equitable and sustainable urban g	growth in station areas	through support of transit-	oriented development, st	ation access, and modal int	egration in a manner that is	s consistent with local land	d use plans and policies.	
Passenger transfers	Higher	Higher	Medium		Higher		Medium	Higher
Equitable development opportunities	Lower	Medium		Higher				
Preserve and promote a healthy environment		mizing adverse impacts on t	the natural, built and soci	al environ ments through su	stainable practices.			
Parks/recreational resource effects (acres)	1.4	5.3		5.7				
Water resource effects (acres)	0.8	0.5		<0.1				
Fish and wildlife habitat effects (acres)	15.0	6.0		15.0				
Hazardous materials sites (1)	50	60		40				
Visual effects to sensitive viewers (miles)	2.5	1.7		1.2				
Potentially affected properties	Medium	Lower		Higher				
Residential unit displacements	Medium	Lower		Higher				
Business displacements (square feet) Construction impacts	Higher Lower	Lower	ver Medium		Medium	Higher	Lower	Medium
Burden on minority/low-income	Lower				ivieuium	Lower	Lower	ivieulum
Traffic circulation and access effects	Lower	Medium Medium			Lower Higher			
Effects on transportation facilities	Lower	Medium			Medium			
Effects on freight movement	Lower	Medium		Medium				
Encoto on neight movement	207701	Miculaiti		Wiculani				

⁽¹⁾ On properties that overlap with the project footprint

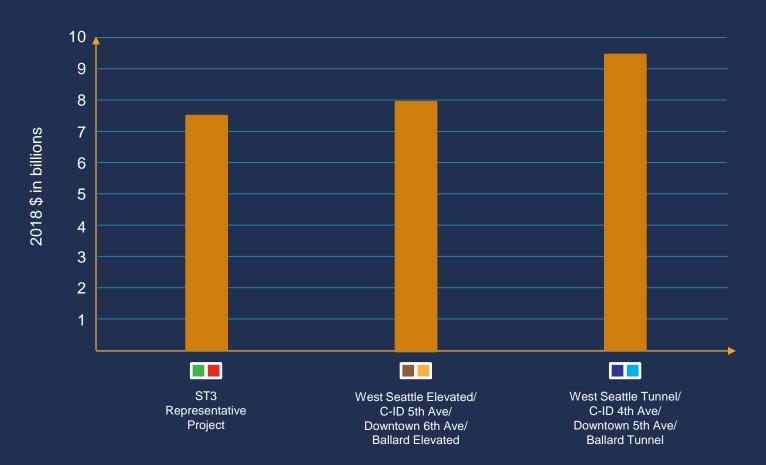
5

Lower Performing

Medium Performing

Higher Performing

Comparative estimates



Estimates based on limited conceptual design for the purpose of comparing alternatives only. Project budget established during final design (~2024).



ST3 Representative Project

- West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated
- C-ID station options: 5th Ave Cut-and-Cover and 5th Ave Mined
- West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel
 - Junction station options: 41st Ave, 42nd Ave and 44th Ave
 - C-ID station options: 4th Ave Cut-and-Cover and 4th Ave Mined
 - Ballard station options: 14th Ave and 15th Ave



West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated — Potential mix-and-match opportunities

- ST3 Representative Project
- West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated
 - C-ID station options: 5th Ave Cut-and-Cover and 5th Ave Mined

West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel

- Junction station options: 41st Ave, 42nd Ave and 44th Ave
- C-ID station options: 4th Ave Cut-and-Cover and 4th Ave Mined
- Ballard station options: 14th Ave and 15th Ave



West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel — Potential mix-and-match opportunities



Next steps

SAG Meeting #12	Jan 30	Level 3 evaluation results		
ELG Meeting #6	Feb 1	Level 3 evaluation results		
EIS Scoping Open Houses / Neighborhood Forums	Feb 27, 28 & March 7	Level 3 evaluation results		
ELG Meeting #7	March 29	CID/ Delridge station focus		
SAG Meeting #13	April 17	Level 3 recommendations		
ELG Meeting #8	April 26	Level 3 recommendations		
Sound Transit Board System Expansion Committee	May 9	Identify preferred alternative (and other EIS alternatives)		
Sound Transit Board Full Board	May 23	Identify preferred alternative (and other EIS alternatives)		

