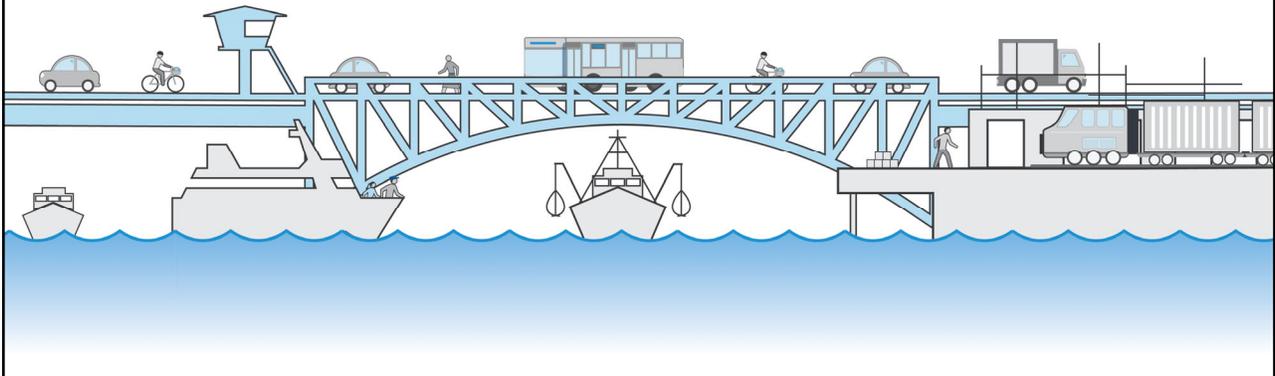


Ballard-Interbay Regional Transportation System Study

Interagency Team Meeting #4



SDOT Policy & Planning
August 20, 2020

Visit www.tinyurl.com/BallardInterbay to provide comment!



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Meeting agenda

- 11:30 Welcome
- 11:45 Social and Economic Impact Analysis Findings
- 12:10 Stakeholder Engagement Updates
- 12:25 Project List Development, Evaluation, and Refinement
- 1:05 ****Public Comment****
- 1:25 Next Steps and Action Items

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Meeting objectives

- Provide clear information about project status, including work underway and completed
- Gather input and direction on the social and economic impact analysis
- Solicit feedback on approach to refining project list and applying additional evaluation criteria



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Welcome & Meeting Protocols

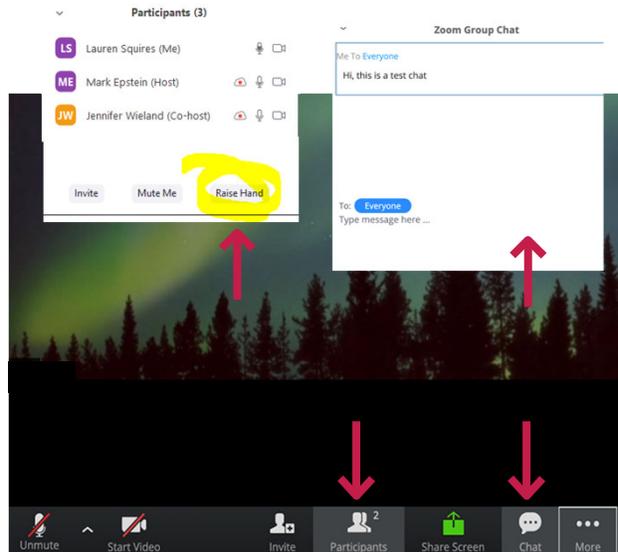
- What do you hope to get out of today's meeting?

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Meeting protocols

For IAT members:

- Use video when possible
- Raise your hand if you have a question
- Pose topics for group discussion or share comments in the chat window throughout the meeting
- Interrupt if we're not "seeing" you!



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Meeting protocols

For community members:

- Guests are muted throughout the meeting to support presentation and IAT discussion
- Public comments will be invited at 1:05 PM for a 20-minute period
- You can sign up at the link below to speak or indicate interest in the chat window
- Additional comments may be submitted in writing at any time

www.tinyurl.com/BallardInterbay

Ballard Interbay Regional Transportation System Interagency Team Meeting 8/20/2020

Please sign in to the meeting by providing your name, organization or affiliation, and e-mail address to receive future communications about this project.

Required

1. Name *

Enter your answer

2. Organization(s) or affiliation(s) *

Enter your answer

3. Email address

Enter your answer

4. Would you like to provide public comment during this meeting? Public comment will take place from 12:55-1:25 PM, time permitting. Comments will be limited to 2 minutes per person and invited on a first-come, first-serve basis.

Yes

No

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Comments from Councilmember Strauss

Seattle City Council

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[Home](#) > [Meet the Council](#)

Dan Strauss

DISTRICT 6 / NORTHWEST SEATTLE



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IAT member introductions

- Share one of your favorite places to go in the Pacific Northwest in summer
- Identify one take-away you hope to have from today's meeting



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King County



Washington State
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Ballard-Interbay Regional Transportation System (BIRT) Study

The Washington State Legislature asked SDOT to develop a report on how to improve travel for people and goods in Ballard-Interbay.



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Project elements



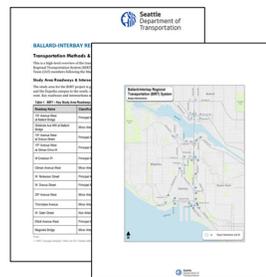
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Completed deliverables available online

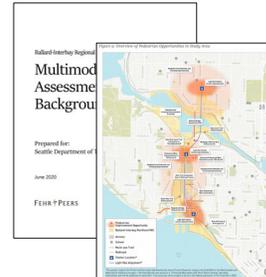
Document and Plan Review



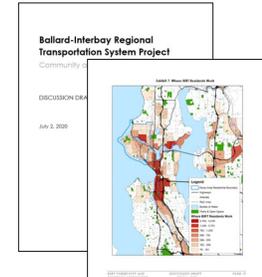
Methods and Assumptions Memorandum



Multimodal Needs Assessment



Coming soon! Social and Economic Baseline Analysis



<http://www.seattle.gov/transportation/birt/>

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Social and Economic Impact Analysis Findings

- What questions do you have about the impact analysis?
- Do the differences between the scenarios make sense to you?

Visit www.tinyurl.com/BallardInterbay to provide comment!



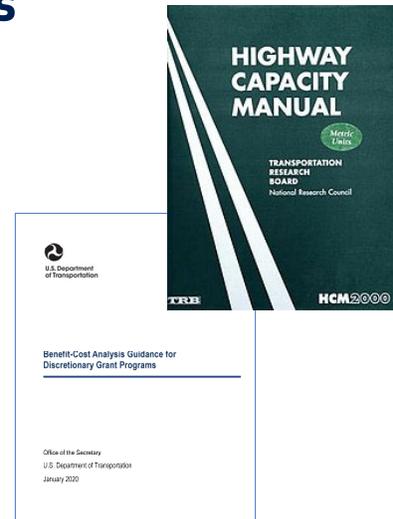
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Social and economic impact analysis

Methods and Assumptions

- Focused on scenario-level impacts; does not include impacts from construction of bridge alternatives
- Uses USDOT Benefit-Cost Analysis Guidance for Discretionary Grant Programs
- Existing and projected travel times and traffic volumes differ from bridge studies because of:
 - Horizon year
 - Analytical methods
 - Project extents



Social and economic impact analysis

Impacts to Study

- Travel time by mode
- Vehicle and transit operating costs
- Safety by mode
- Accessibility to housing, jobs, and non-work destinations
- Market desirability and property values
- Build costs



Two alternatives for each bridge



Ballard Bridge: low- and mid-height

Magnolia Bridge: in-kind replacement and Armory Way



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Ballard Bridge impact analysis (2042)

	Mid-Level	Low-Level	Notes
Travel Time <i>Average daily, all travel purposes</i>	- 0.6 minutes \$3.9M	- 0.2 minutes \$1.4M	Mid-level includes time savings from fewer bridge openings
Operating Costs	Insufficient evidence to suggest impact		VMT most associated with land use changes
Safety <i>Potential savings</i>	\$2.65M per fatal crash \$62,650 per injury crash		Shared-use path would reduce risk of collisions; wider sidewalks would enhance pedestrian safety
Costs	\$971M	\$471M	Design, construction, and right-of-way costs
Accessibility	No impact		Minimal change in travel time
Market Desirability	No change		Continued market demand for the study area

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Magnolia Bridge impact analysis (2042)

	In-Kind Replacement	Armory Way	Notes
Travel time <i>Average daily, all travel purposes</i>	No impact	+ 13 minutes \$23.1M	
Operating Costs	Insufficient evidence to suggest impact		VMT most associated with land use changes
Safety <i>Potential savings</i>	Minimal benefits for non-motorized access		Few historic bicyclist/pedestrian collisions; small projected increase in volumes
Costs	\$397.7M	\$265.8M	Construction, soft costs, right-of-way, and contingency costs
Accessibility	No impact	+ 13 minutes to commute times	Focused on impacts specifically to affordable rental housing in Magnolia
Market Desirability	No change	Insufficient evidence to suggest impact	Continued market demand for the study area

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Discussion and next steps

- What questions do you have about the social and economic impact analysis methods or findings?
- Do the results make sense to you?
- What suggestions do you have for further study or additional model runs?



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Stakeholder Engagement Updates

- Do these results match what you have heard about BIRT?

Visit www.tinyurl.com/BallardInterbay to provide comment!



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Engagement overview

Completed and ongoing activities:

- ✓ Meetings with elected officials and community organizations (MCC, SNG, NSIA)
- ✓ City advisory board briefings (SFAB, SBAB)
- ✓ Call for interest via Puget Sound Shipbuilders Association and Fisherman's Terminal
- ✓ BINMIC worker survey
- ✓ Business interviews and meetings
- ✓ WSBLE surveys
- ✓ Coordination with Mayor's MIS



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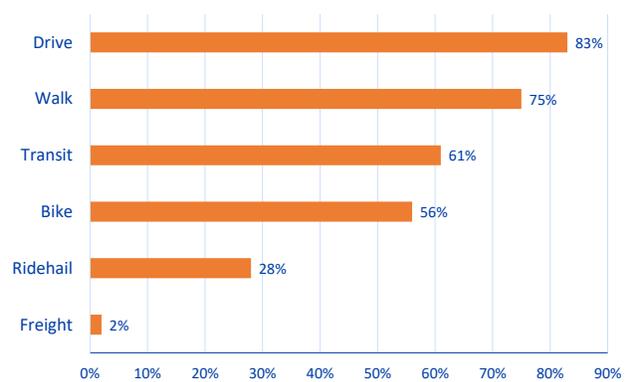
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Public engagement in July and August

Over 500 Survey Respondents

- 74% residents
- 46% visitors for personal trips
- 11% employees
- 10% visitors for work trips
- 8% business owners

How respondents travel in Ballard-Interbay:



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Public engagement results

Projects focused on bicycle and pedestrian connections received strong support:

- Bike/ped connections to fill network gaps (43%)
- Bike/ped connections over physical barriers (40%)
- Connections to future Link stations (40%)
- Magnolia Bridge replacement (40%)
- Ballard Bridge replacement (36%)
- Reduce delay for driving and freight (24%)
- Transit priority and speed and reliability improvements (24%)



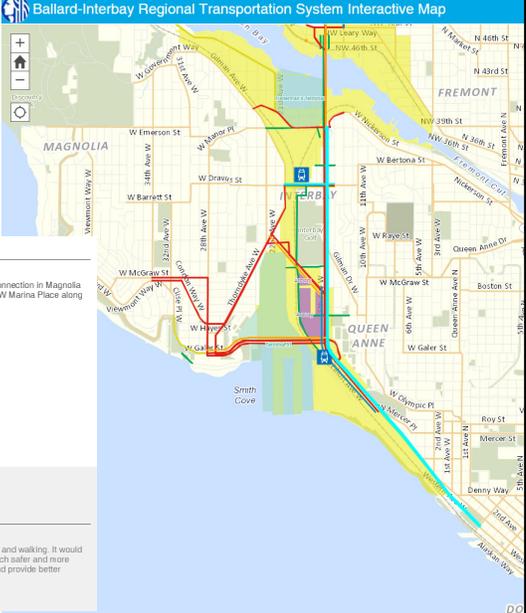
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Public engagement results

Most popular projects:

- In-Kind Replacement of the Magnolia Bridge
- Magnolia Trail
- 15th Ave/Elliott Ave PBL from W Emerson St to Broad St
- Ballard Locks Connection
- Interim Ballard Bridge Improvements
- 14th Ave Improvements

Ballard-Interbay Regional Transportation System Interactive Map



Magnolia Trail

Project Name	Magnolia Trail
Project Description	Build a bicycle and pedestrian connection in Magnolia that connects W Galer Street to W Marina Place along the waterfront.
Primary Mode	Bike/Pedestrian
Improvement Type	New Trail Connection
Roadway/Location	W Marina Place
Extent (from)	W Galer Street
Extent (to)	W Marina Place
Applicable Alternative	Both Alternatives

Comments

Comments: Andrew Abernathy

Name	Andrew Abernathy
Comment	I would "love" to have this, for both biking and walking. It would open up a great new route, allowing a much safer and more pleasant way to do a loop of Magnolia, and provide better access to the 32nd Ave street end park.
DateSub	8/11/2020, 4:53 PM



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"Ask a Bridge Engineer" video coming soon

Inquiring minds want to know:

- What's the condition rating of the Interbay bridges?
- And what does that really mean?
- How does SDOT make decisions about when to replace a bridge?
- What funding sources are available for these projects?



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Project List Development, Evaluation, and Refinement

- Do the changes to the project list reflect your feedback?
- Do you have questions about the operational performance benefits for the corridor management strategies?
- Which projects are most important to advance into our recommendations?

Visit www.tinyurl.com/BallardInterbay to provide comment!



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Potential projects

- Evaluated 80+ projects for ability to meet project goals
- Provided 40+ projects for public input
- Many potential projects are independent of bridge alternatives, including crossing enhancements and walking and biking improvements
- Bridge-dependent projects are more focused on freight and transit access



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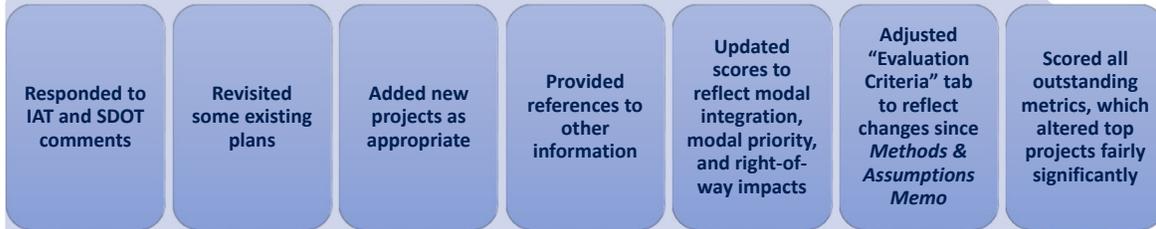
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Responding to IAT feedback



Noted comments about facility design for future consideration.



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Adjusted equity evaluation criteria

Social Impacts: Residents

- Considers income (quartiles of median income) and race (% non-white populations)

Social Impacts: Employees

- Considers income (quartiles of workers earning less than \$1,250/month) and race (% non-white populations)

ADA Access

- Considers access or safety for people with disabilities (e.g., crosswalk improvements, sidewalk condition improvements, improved transit experience)



Sidewalk on Dravus Bridge over 15th Ave



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Added new projects

New since public meetings:

- B-18: 20th Ave W Bike Lanes
- F-11: Dynamic Freight Signage on 15th Ave W
- MM-17: Dravus St Bridge Replacement
- MM-18: Dravus St Corridor Signal Optimization
- MM-19: Dravus St & 17th Ave W Roundabout
- T-10: Route 40 TPMC Leary Way Bus Lanes



Highest scoring projects

#	ID	Project Title	Bridge Alternative
1	MM-17	Dravus Bridge Replacement - NEW	Both
2	P-6	Along the Roadway Improvements: Elliott Ave/15th Ave	Both
3	BP-15	Wheeler St Pedestrian Bridge	Higher Cost
4	MM-19	Dravus St & 17th Ave Roundabout - NEW	Both
5	BP-17	Elliott Bay Trail Extension	Both
6	BP-1	Crossing Improvements at High Priority Signalized Intersections	Both
7	MM-4	15th Ave W FAT Lanes	Both
8	BP-2	Safety and Crossing Enhancements at High Priority Unsignalized Locations	Both
9	P-1	Along the Roadway Improvements: W Dravus St	Both
10	BP-4	Howe St Bike and Pedestrian Connection	Both

Corridor management approach

- Improve travel time for people and goods along key corridors
- Focus on roadway and operational improvements based on identified needs
 1. 15th Ave NW/W (Blue)
 2. NW Leary Way (Yellow)
 3. W Emerson St/W Nickerson St (Green)
 4. W Dravus St (Orange)
 5. Armory Way Bridge (Red)
 6. Magnolia Bridge (Purple)



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Identified corridor needs

Corridor	Primary Needs
1. 15th Ave W	Southbound congestion in AM and northbound congestion in PM
2. NW Leary Way	Increase mobility of people and goods through closely spaced, signalized, high-access locations
3. W Emerson Pl / W Nickerson St	Maintain mobility of people and goods while balancing serving access points
4. W Dravus St	Trucks unable to make in-lane turning maneuvers at intersections with 15th Ave W ramps
5. Armory Way Bridge	Maintain mobility of people and goods while balancing serving access points
6. Magnolia Bridge	Maintain mobility of people and goods

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Categories of corridor management strategies

Strategies are organized in the following categories:

- Signal operations
- Intelligent Transportation System (ITS) strategies
- Traffic control
- Channelization or striping
- Access management
- Capital improvements



Signal operations and access management needs at W Dravus St and 20th Ave W

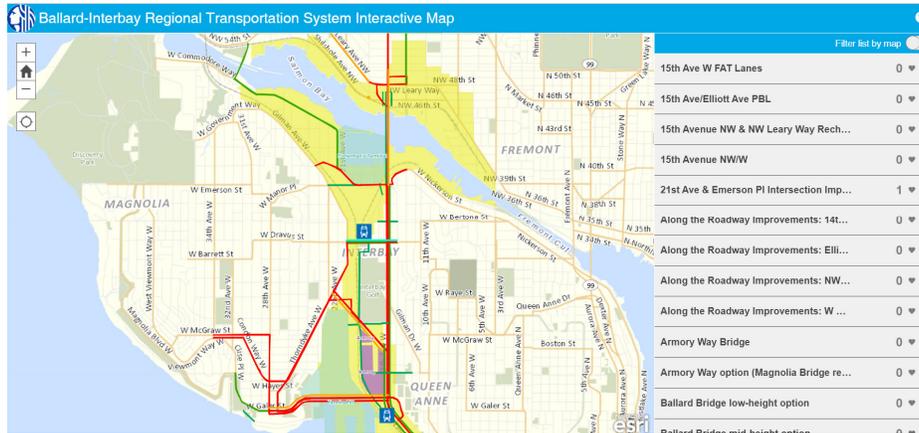
Summary of operational performance benefits

- Some strategies expected to provide qualitative benefits were not included in analysis (e.g., adaptive traffic signals, access management, ITS for wayfinding)
- Other strategies evaluated with Synchro by mode, peak hour, direction
- Comparison is performance of base bridge scenarios to scenarios with corridor management strategies



UPS truck on 15th Ave

Share your priority projects



Map available at www.tinyurl.com/BIRTprojectmap. Note we are longer accepting comments.

Next steps: preparing recommendations

The final plan will include recommendations in three categories:

- **Core projects:** bridge options, corridor-wide investments
- **Top investments by mode:** active transportation; transit; freight; auto/corridor
- **Smaller/simpler projects:** near-term, low-cost, and/or programmatic projects for any mode

The top projects will:

- Score well on evaluation criteria
- Reduce modal conflicts
- Complement one another
- Include large, transformative projects and smaller, simpler projects

Public Comment

- What questions or comments do you have about the information presented today?

Visit www.tinyurl.com/BallardInterbay to provide comment!



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Public comment protocol

- All: If you signed up via the online form, we will call on you in the order you completed the form
- Web participants: Indicate if you would like to provide a verbal comment by “raising your hand” or noting interest in the chat window; wait for your name to be called
- Dial-in participants: Indicate if you would like to comment by pressing *9 to “raise your hand;” we will invite you to take your turn to speak by stating the last 4 digits of your phone number (press *6 to unmute yourself)
- Comments will be limited to 2 minutes per person

Additional comments may be submitted using the form linked in the chat and on the next slide.

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Public Comment

- What do you want to make sure agency partners and the project team consider?
- Do you have additional comments? Visit www.tinyurl.com/BallardInterbay to share them.



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Next Steps & Action Items

- Is there additional information you need at this point?
- How can we support you in sharing today's content with your colleagues and leadership?

Visit www.tinyurl.com/BallardInterbay to provide comment!



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Immediate next steps

- **August 2020:** Create project package recommendations
- **September 2020:** Develop draft plan and bridge replacement timeline and funding strategy
- **October 2020:** Refine draft plan with public input and agency comments
- **November 1, 2020:** Submit final report



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Upcoming IAT meetings and key topics

Meeting	Topics	Date
Meeting #5 <i>(public welcome)</i>	<ul style="list-style-type: none"> • Draft Plan Recommendations • Draft Replacement Timeline and Traffic Management Plans • Draft Funding Strategy 	September
Meeting #6 <i>(if needed)</i>	<ul style="list-style-type: none"> • Final Review of Draft Plan 	October



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Thank you!

BallardInterbay@seattle.gov
www.seattle.gov/transportation/birt

