



Bellevue Downtown Association Downtown Bike Series

Meeting 2

Franz Loewenherz Andreas Piller Kyle Potuzak Chris Long

October 26, 2017





Today's Agenda:

- 1) Meeting Purpose
- 2) 9/28 Meeting Recap
- 3) Candidate Demo Corridors
- 4) Bike Share



Transportation Committee

The BDA has asked the Bellevue Transportation Department to engage in a timely discussion about how to make Downtown a comfortable, safe, and attractive place for people to bike.







- BDA Transportation Committee will conduct an internal review and discussion, followed by driving consensus on a recommendation.
- The recommendation will be presented to the BDA Board of Directors (12/19).
- The Board will vote on a position that will be communicated to the Bellevue Transportation Commission.



Meeting Purpose

More transportation choices means a better transportation network

- Helps manage future traffic congestion
- Creates a Downtown that's accessible to more people
- Provides an option to leave the car at home
- Provides an affordable and healthy travel option





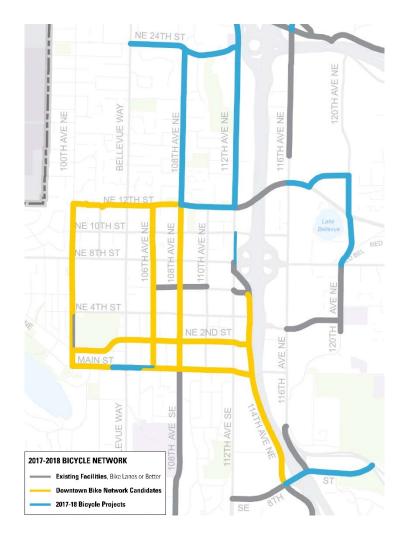








Meeting Purpose



Downtown Bicycle Network Candidate Corridors:

North-South

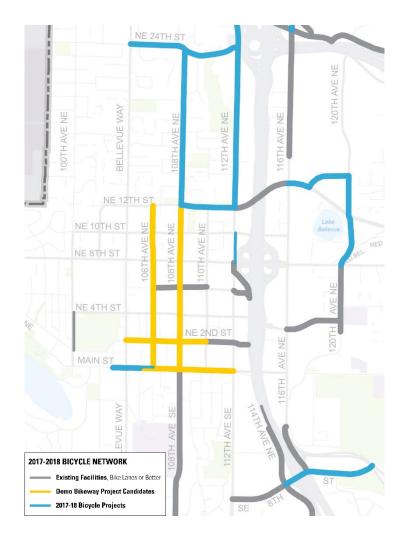
- 100th Ave NE
- 106th Ave NE
- 108th Ave NE
- 114th Ave

East-West

- Main St
- NE 2nd St
- NE 12th St

BELLEVUE **PEDESTRIAN** & BICYCLE IMPLEMENTATION INITIATIVE

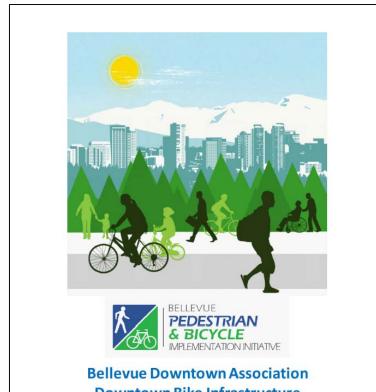
Potential Bike Network



Demonstration Bikeway Project Candidate Corridors:

- 108th Ave NE
 Main St to NE 12th St
- Main St 105th Ave to 112th Ave
- NE 2nd St Bellevue Way NE to 110th Ave NE
- 106th Ave NE
 Main St to NE 12th St

Candidate Demo Corridors



Downtown Bike Infrastructure Improvement Series

> Briefing Book October 26, 2017

- Candidate Demo Corridors
- Corridor Overviews
- Preliminary Design Concepts
- Evaluation Criteria



Briefing Book

When we last met...

Bicycle Improvements	Street Use Impacts	Land Use
 Existing bike network connections High comfort bikeway Consistency with community feedback 	 Travel lanes repurposed Turn lanes repurposed Changes to on-street parking Transit operation challenges 	 Construction activity Driveways



Preliminary Evaluation Criteria

	Safety		Bicycle En	vironment	
		(2010-2016) Safety Issues	 Existing Bik Connection Bike Facilit Construction 	ns y Comfort	
Auto Envir	ronment	Curbside E	nvironment	Transit E	Invironment
 Travel Lanes Repurposed Turn Lanes Repurposed 		 Changes to On-Street Parking Loading/Unloading 		• Bus Oper • Transit A	



Final Evaluation Criteria

Category	Criteria	108th Ave	Main St	NE 2nd St	106th Ave
Safaty	Collisions (2010-2016)				
Safety	Wikimap Safety Issues				
	Bike Network Connectivity				
Bicycle Environment	Bike Facility Comfort				
	Construction Activity				
Auto	Travel Lanes Repurposed				
Environment	Turn Lanes Repurposed				
Curbside	Changes to On-Street Parking				
Environment	Loading/ Unloading Access				
Transit	Bus Operations				
Environment	Transit Access				

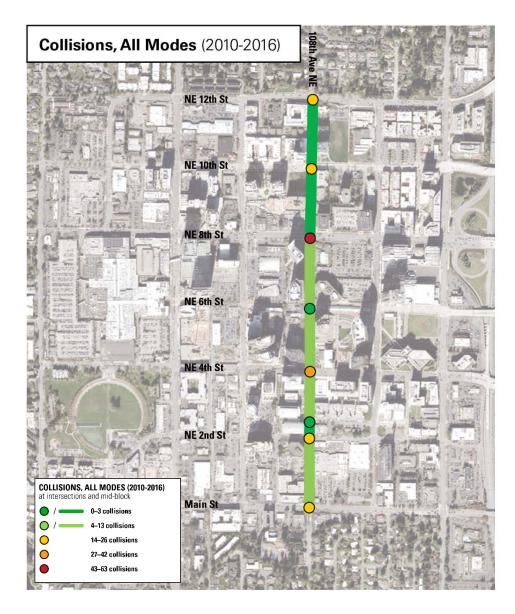


Evaluation Criteria

Category	Criteria	108th Ave	Main St	NE 2nd St	106th Ave
Safety	Collisions (2010-2016)				
Salety	Wikimap Safety Issues				
	Bike Network Connectivity				
Bicycle Environment	Bike Facility Comfort				
	Construction Activity				
Auto	Travel Lanes Repurposed				
Environment	Turn Lanes Repurposed				
Curbside	Changes to On-Street Parking				
Environment	Loading/ Unloading Access				
Transit	Bus Operations				
Environment	Transit Access				



Evaluation Criteria

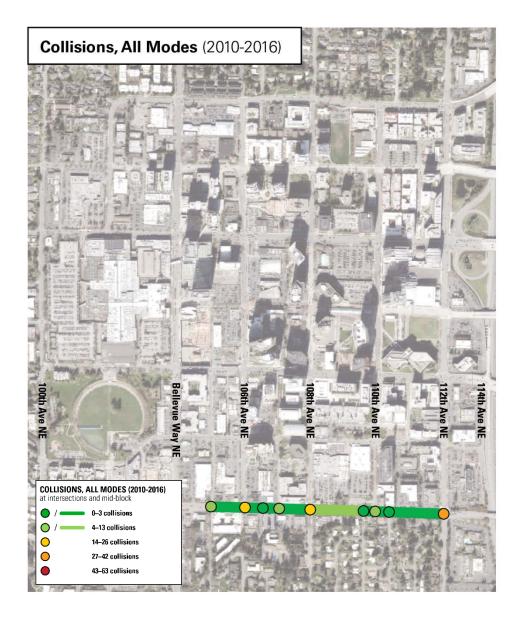


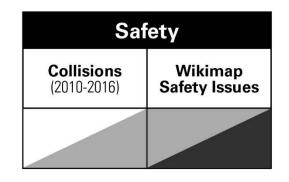
Safety		
Collisions (2010-2016)	Wikimap Safety Issues	

- Total: 232
- Involving a Person Bicycling: 4
- Involving a Person Walking: 10



108th Ave | Safety

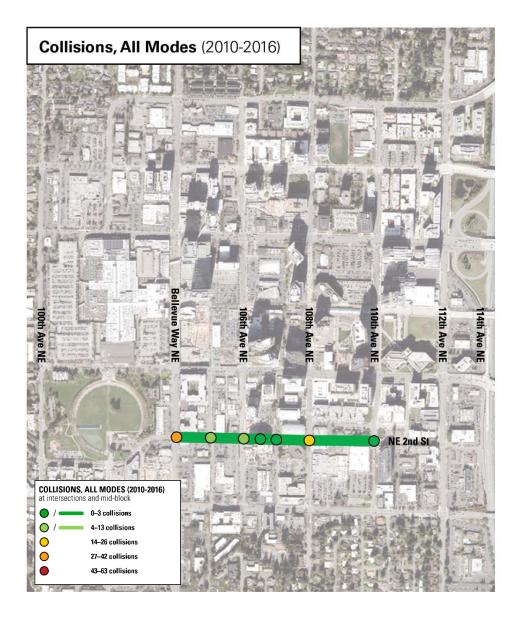




- Total: 136
- Involving a Person Bicycling: 0
- Involving a Person Walking: 3



Main St | Safety

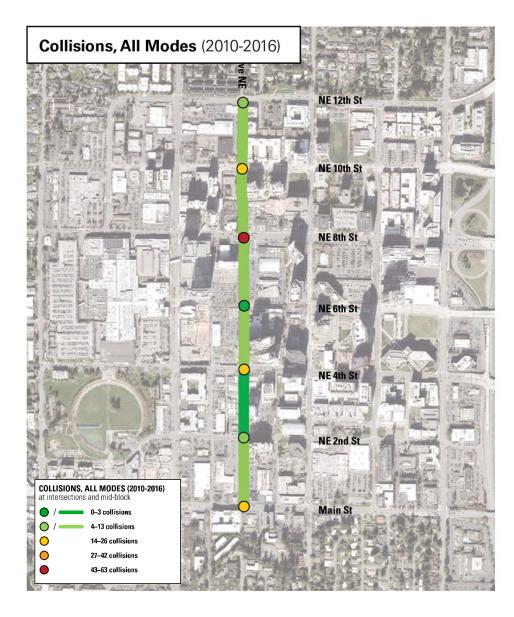


Safety		
Collisions (2010-2016)	Wikimap Safety Issues	

- Total: 114
- Involving a Person Bicycling: 1
- Involving a Person Walking: 10



NE 2nd St | Safety

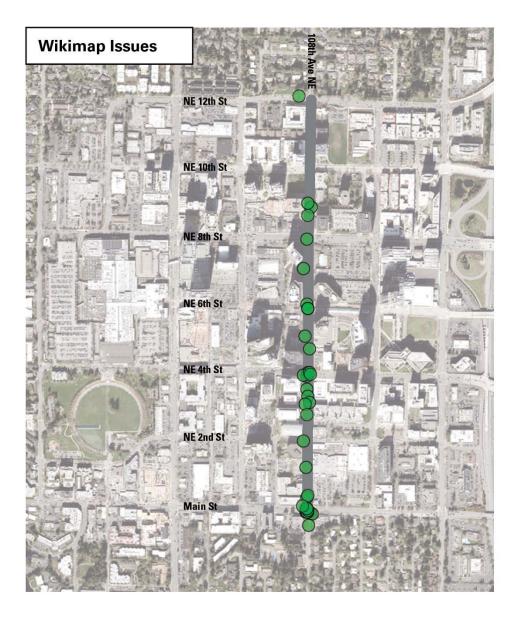




- Total: 196
- Involving a Person Bicycling: 4
- Involving a Person Walking: 11



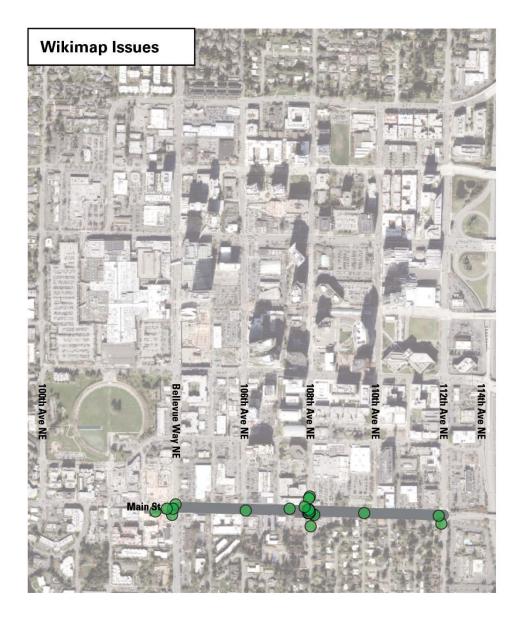
106th Ave | Safety





- Total Comments: 44
- Unsafe bicycle accommodations: 7
- Unsafe behaviors...
 - by people driving: 33
 - by people bicycling: 3
 - by people walking: 1



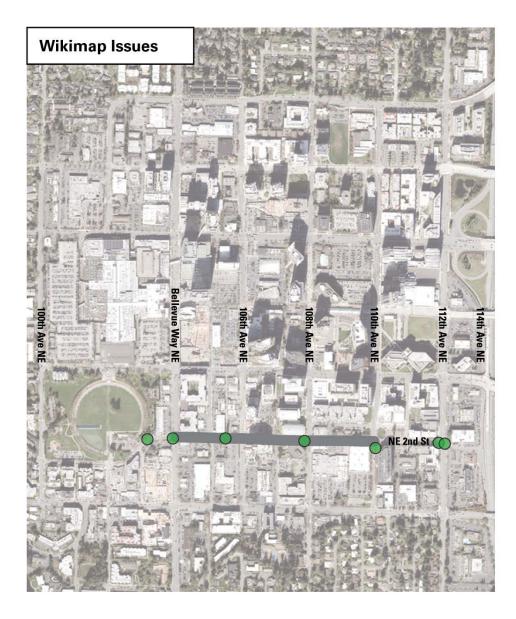


Safety		
Collisions (2010-2016)	Wikimap Safety Issues	

- Total Comments: 33
- Unsafe bicycle accommodations: 9
- Unsafe behaviors...
 - by people driving: 22
 - by people bicycling: 1
 - by people walking: 1



Main St | Wikimap

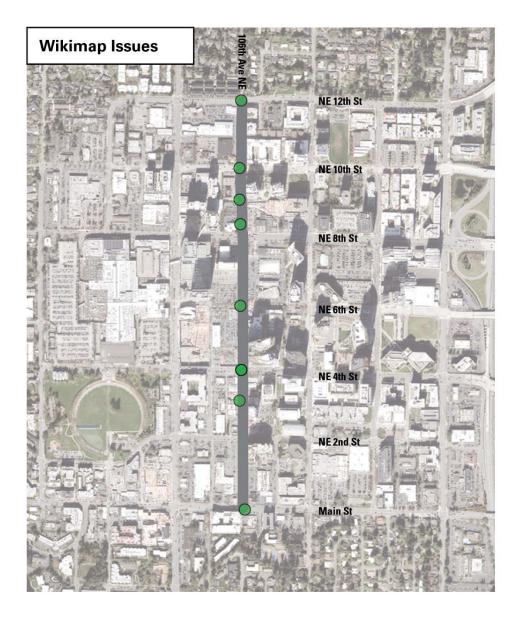


Safety		
Collisions (2010-2016)	Wikimap Safety Issues	

- Total Comments: 7
- Unsafe bicycle accommodations: 3
- Unsafe behaviors by people driving: 4



19





- Total Comments: 9
- Unsafe bicycle accommodations: 1
- Unsafe behaviors...
 - by people driving: 7
 - by people walking: 1

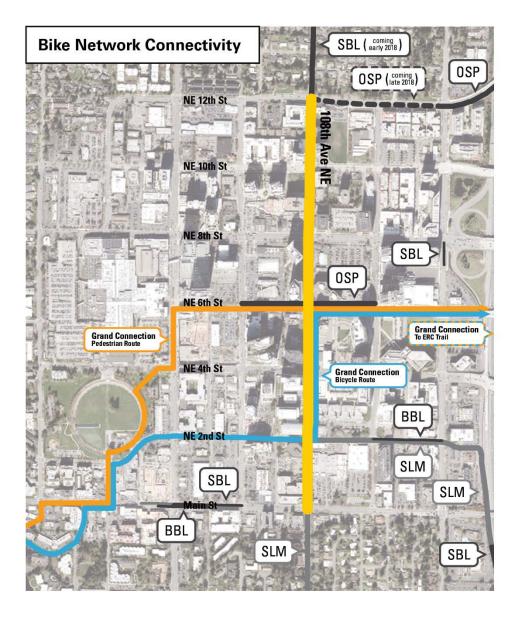


106th Ave NE | Wikimap

Category	Criteria	108th Ave	Main St	NE 2nd St	106th Ave
Safety	Collisions (2010-2016)				
Salety	Wikimap Safety Issues				
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Bicycle Environment	Bike Facility Comfort				
	Construction Activity				
Auto	Travel Lanes Repurposed				
Environment	Turn Lanes Repurposed				
Curbside	Changes to On-Street Parking				
Environment	Loading/ Unloading Access				
Transit	Bus Operations				
Environment	Transit Access				



Evaluation Criteria



Bicycle Environment			
Bike NetworkBike FacilityConstructionConnectivityComfortActivity			

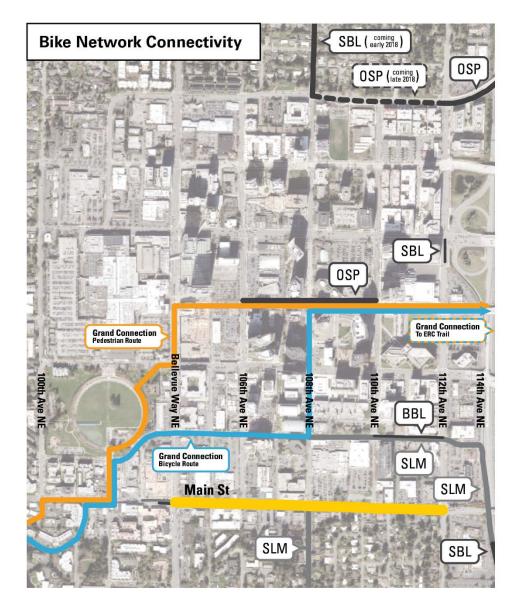
- 108th Ave SE (south)
- NE 2nd St (east)
- NE 6th St (east/west)
- NE 12th St (east)
- 108th Ave NE (north)

Relationship to long-term projects: Part of the Grand Connection bicycle route

Access to destinations: Very high



108th Ave | Bicycle Environment



Bicycle Environment			
Bike NetworkBike FacilityConstructionConnectivityComfortActivity			

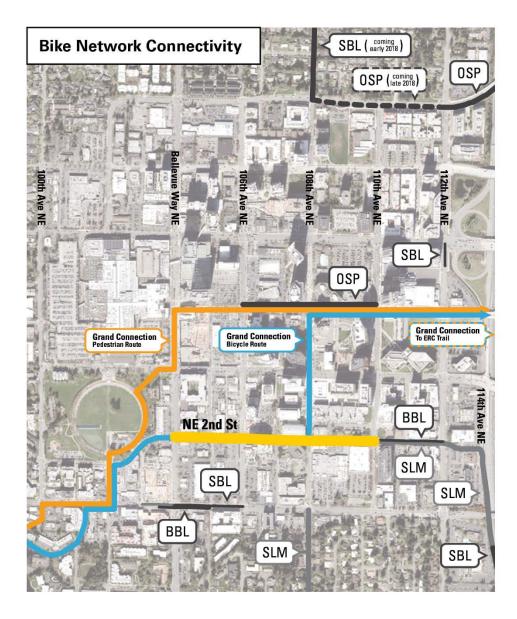
- 108th Ave SE (south)
- Main St (west)

Relationship to long-term projects: Connects to future East Link station area and offstreet path

Access to destinations: Medium



Main St | Bicycle Environment



Bicy	Bicycle Environment				
Bike NetworkBike FacilityConstructionConnectivityComfortActivity					

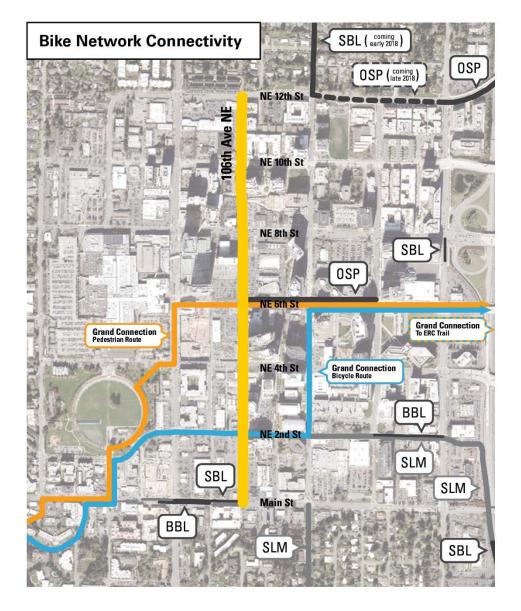
NE 2nd St (east)

Relationship to long-term projects: Part of the Grand Connection bicycle route

Access to destinations: Low



NE 2nd St | Bicycle Environment



Bicycle Environment		
Bike Network Bike Facility Construction Connectivity Comfort Activity		Construction Activity

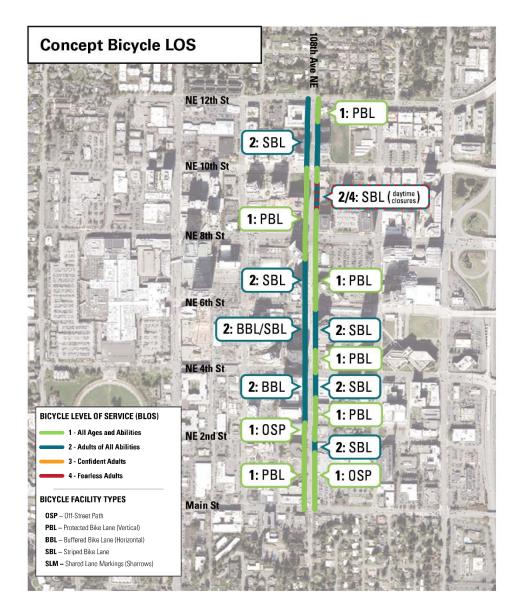
- Main St (west)
- NE 6th St (east)

Relationship to long-term projects: Intersects both Grand Connection routes—pedestrian and bicycle

Access to destinations: High



106th Ave | Bicycle Environment



Bicycle Environment		
Bike NetworkBike FacilityConstructionConnectivityComfortActivity		Construction Activity

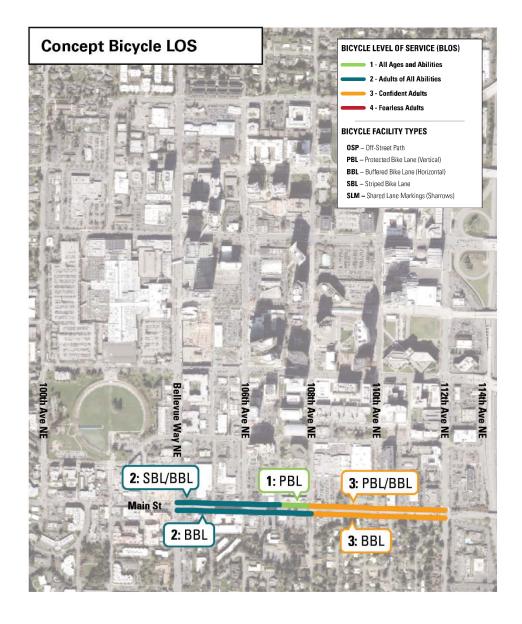
Prevailing Bicycle LOS: 2 and 1

Suitable for Interested But Concerned Riders, incl. portions for All Ages and Abilities





108th Ave | Bicycle Environment



Bicycle Environment		
Bike Network Bike Facility Construction Connectivity Comfort Activity		Construction Activity

Prevailing Bicycle LOS: 3 and 2

Suitable for Enthused and Confident riders, west segment for

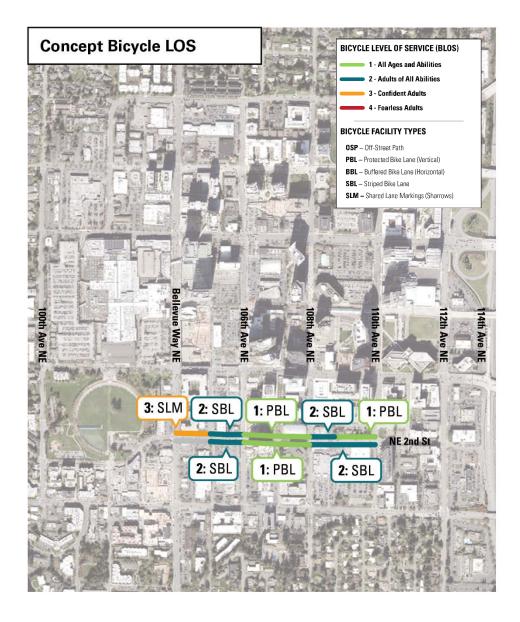


Interested But Concerned

Moderate to steep grades



Main St | Bicycle Environment



Bicycle Environment			
Bike NetworkBike FacilityConstructionConnectivityComfortActivity			

Prevailing Bicycle LOS: 2 and 1

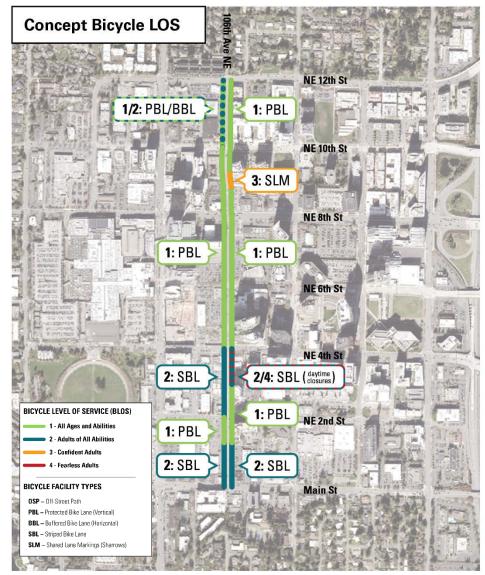
Suitable for Interested But Concerned Riders, incl. portions for All Ages and Abilities



Steep grades between 106th Ave and 108th Ave



NE 2nd St | Bicycle Environment



Bicy	Bicycle Environment		
Bike Network Bike Facility Construction Connectivity Comfort Activity		Construction Activity	

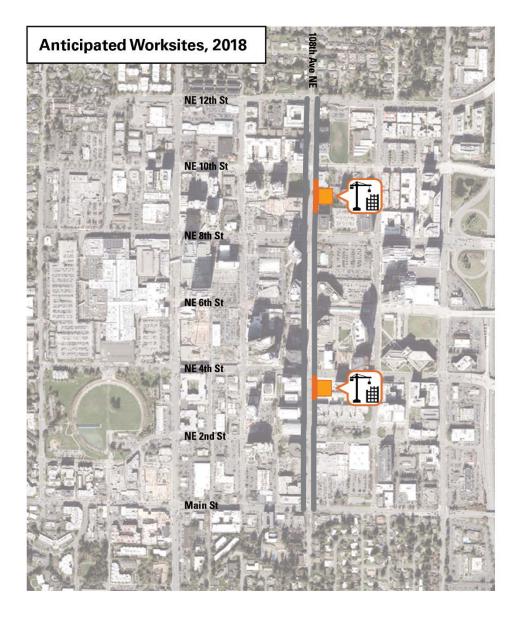
Prevailing Bicycle LOS: 1 and 2

Substantially suitable for INTERESTED CONCERNED All Ages and **Abilities**, with some portions for Interested But Concerned riders



Bellevue ATION INITIATIVE

106th Ave | Bicycle Environment

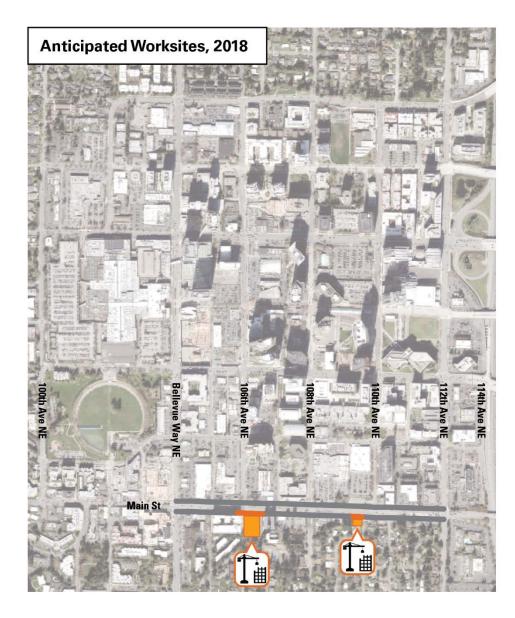


Bicycle Environment		
Bike NetworkBike FacilityConstructionConnectivityComfortActivity		Construction Activity

- Southeast corner of NE 4th St (any associated lane closures not expected to impact existing bike lane at NE 4th St)
- East side mid-block between
 NE 8th St and NE 10th St (daytime lane closures anticipated)



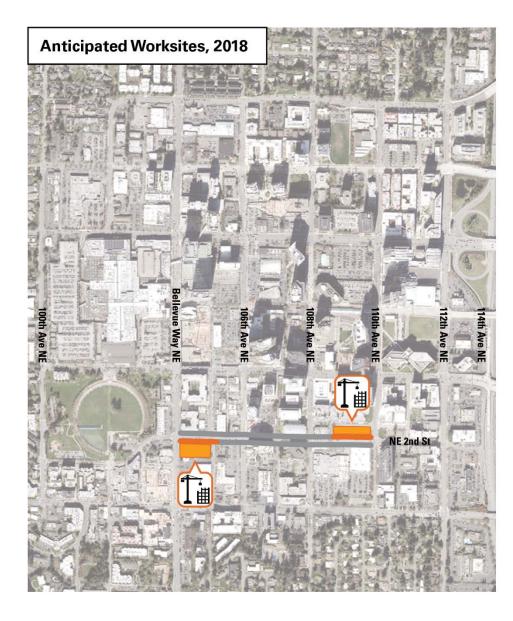
108th Ave | Bicycle Environment



Bicycle Environment		
Bike Network Bike Facility Construction Connectivity Comfort Activity		

- Southeast corner of 106th Ave (daytime lane closures anticipated)
- Southwest corner of 110th Ave



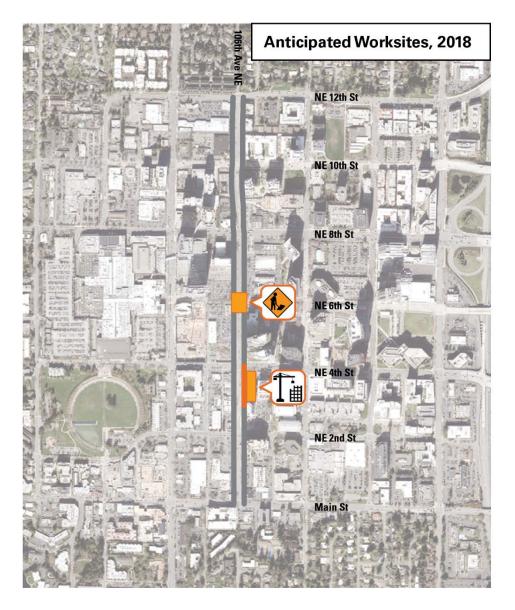


Bicycle Environment			
Bike NetworkBike FacilityConstructionConnectivityComfortActivity			

- Southeast corner of Bellevue
 Way NE (ongoing daytime lane closures)
- North block face west of 110th
 Ave NE (developer utilizing existing onstreet parking lane for equipment staging)



NE 2nd St | Bicycle Environment



Bicycle Environment			
Bike Network Bike Facility Construction Connectivity Comfort Activity			

- Southeast corner of NE 4th St (potentially delayed until late 2018 or 2019)
- NE 6th St intersection improvement project (half-street closures anticipated)

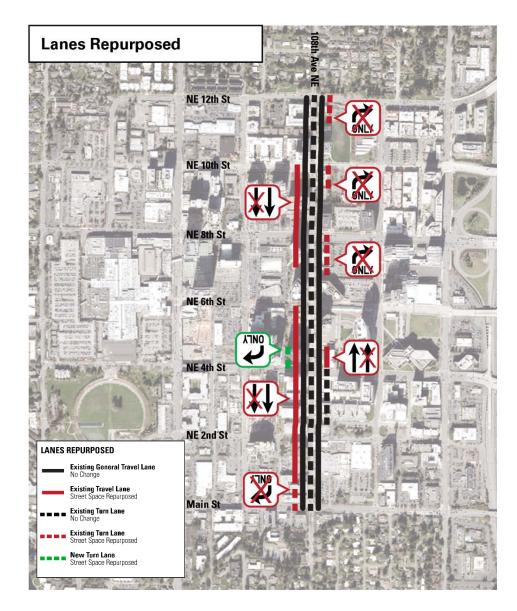


106th Ave | Bicycle Environment

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Transit	Bus Operations				
Environment	Transit Access				



Evaluation Criteria



Auto Environment		
Travel Lanes Repurposed Repurposed		

Travel Lanes Repurposed: Second southbound curb lane

Right Turn Lanes Repurposed at:

- Main St (SB)
- NE 8th St, NE 10th St, and
 NE 12th St (NB)

Right Turn Lane Created at:

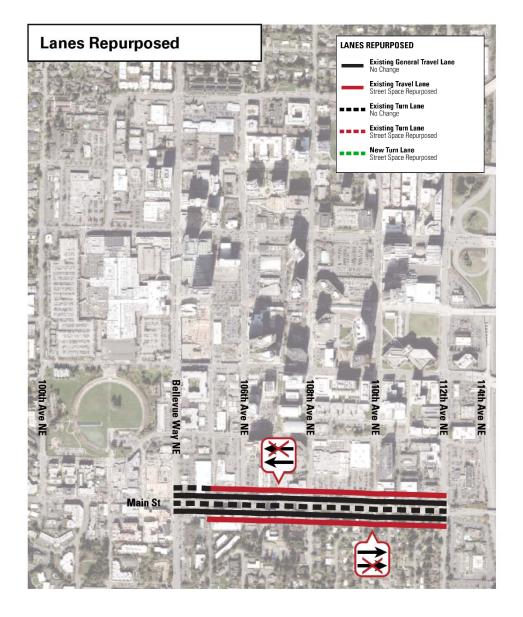
– NE 4th St (SB)

Lane Reduction Suitability: Good

Based on FHWA guidance and average daily traffic volumes (6,200–11,400). Intersection analysis and signal retiming recommended.



108th Ave | Auto Environment



Auto Environment			
Travel Lanes Repurposed Repurposed			

Travel Lanes Repurposed: Eastbound and westbound curb lanes

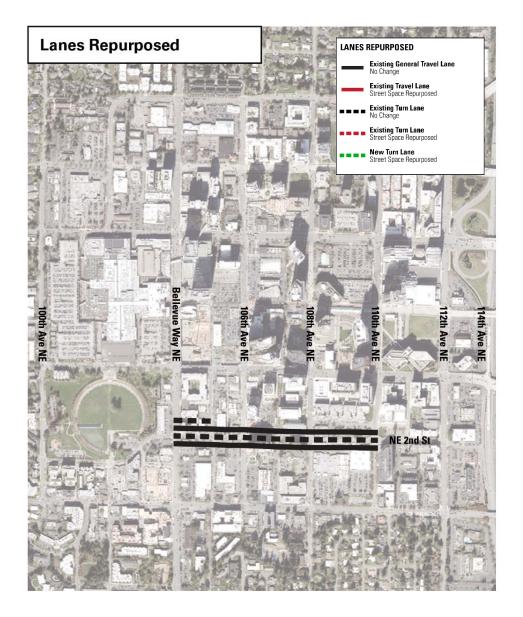
Westbound right turn lane at Bellevue Way retained

Lane Reduction Suitability: Good

Based on FHWA guidance and average daily traffic volumes (14,300-18,400). Capacity may be impacted; a corridor analysis is recommended.



Main St | Auto Environment



Auto Environment	
Travel Lanes Repurposed	Turn Lanes Repurposed

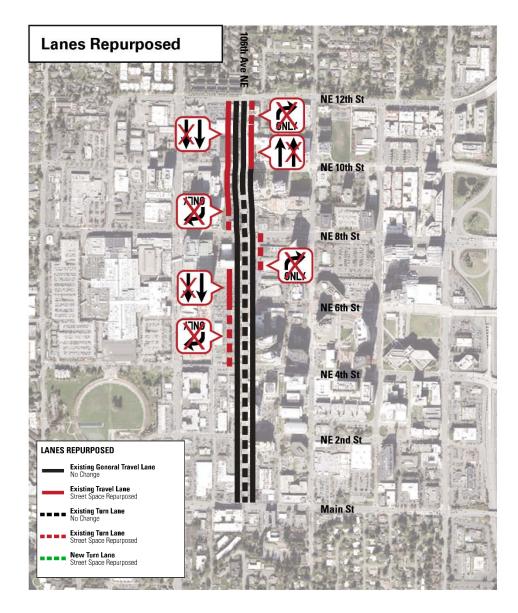
All existing travel and turn lanes retained without impact.

3-Lane Configuration Suitability: Great

Based on FHWA guidance and current average daily traffic volumes (8,200-8,400).



NE 2nd St | Auto Environment



Auto Environment	
Travel Lanes Repurposed Repurposed	

Travel Lanes Repurposed:

- Second southbound lane
 between NE 8th and 12th St
 and south of NE 6th St
- Second northbound lane
 between NE 10th and 12th St

Right Turn Lanes Repurposed at:

- NE 4th St (SB)
- NE 8th St (NB and SB)
- NE 12th St (NB)

Lane Reduction Suitability: Great

Based on FHWA guidance and average daily traffic volumes (6,300–9,800).

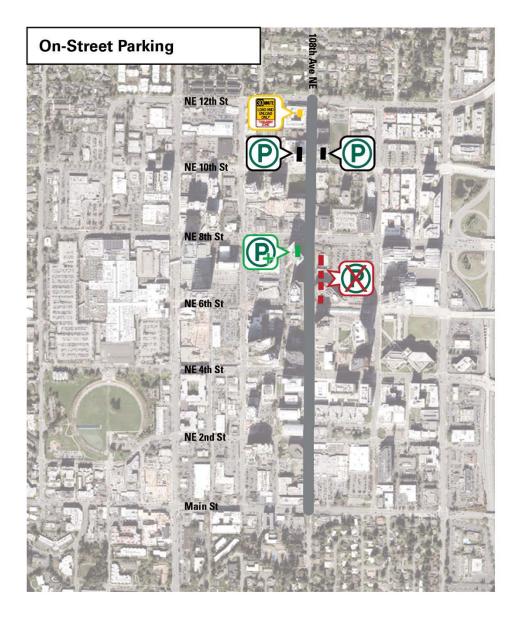


106th Ave | Auto Environment

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Evaluation Criteria



Curbside E	Curbside Environment	
Changes to On-Street Parking	Loading/ Unloading	

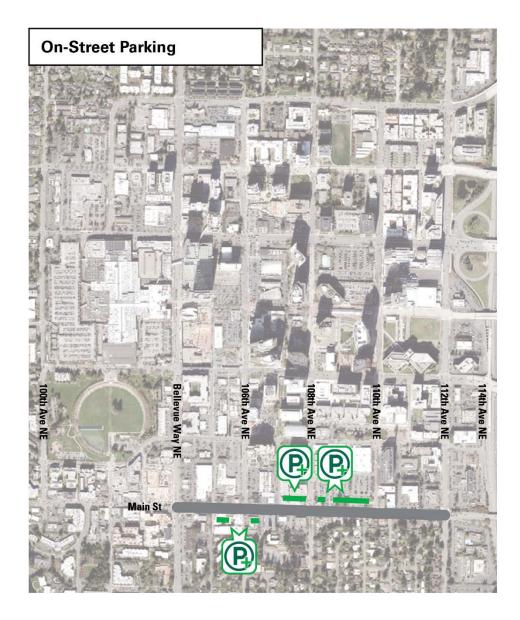
On-Street Parking Repurposed:

- Off-peak spaces on east side of block, NE 6th St to NE 8th St;
- Partially offset by new load/unload spaces on west side south of NE 8th St

Other existing parking and loading spaces retained.



108th Ave | Curbside Environment



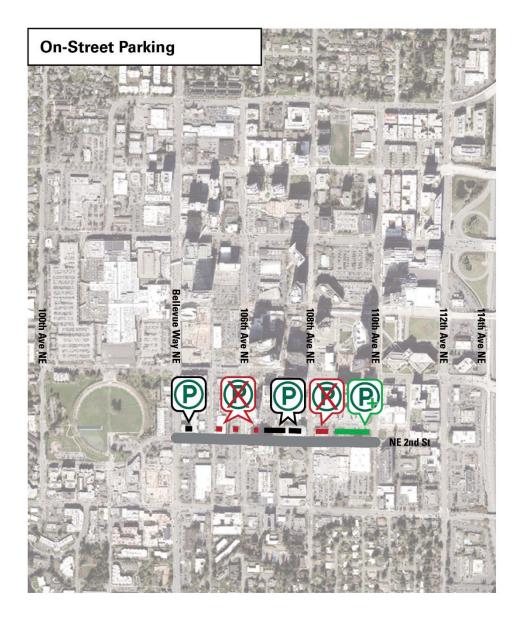
Curbside Environment	
Changes to On-Street Parking	Loading/ Unloading

Opportunity for significant new on-street parking supply:

- South side between 105th Ave and 107th Ave
- North side between 107th Ave and 110th Ave
- Potential to designate some as loading spaces as needed



Main St | Curbside Environment



Curbside E	Curbside Environment	
Changes to On-Street Parking Unloading		

On-Street Parking Repurposed:

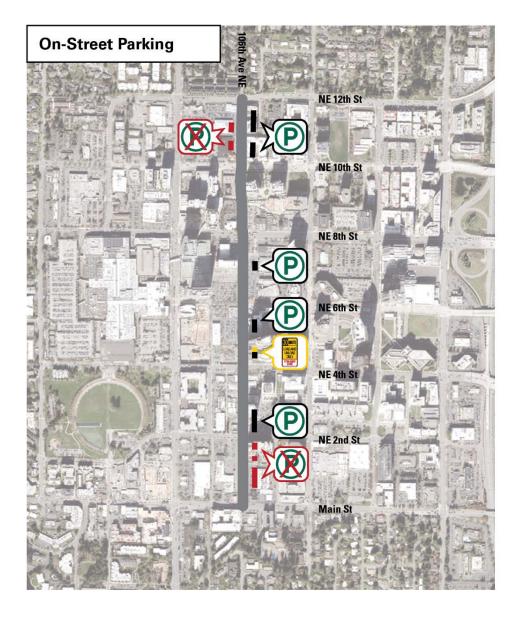
- North side of block, east of 108th Ave NE;
- North side of block, 105th Ave
 NE to east of 106th Ave NE

Other existing parking and loading spaces retained.

New spaces reintroduced on north side of block, west of 110th Ave NE, following completion of private construction



NE 2nd St | Curbside Environment



Curbside Er	Curbside Environment	
Changes to On-Street Parking Unloading		

On-Street Parking Repurposed:

- West side of block, NE 10th St to south of NE 12th St;
- East side of block, Main St to NE 2nd St

All other existing parking and loading spaces retained.

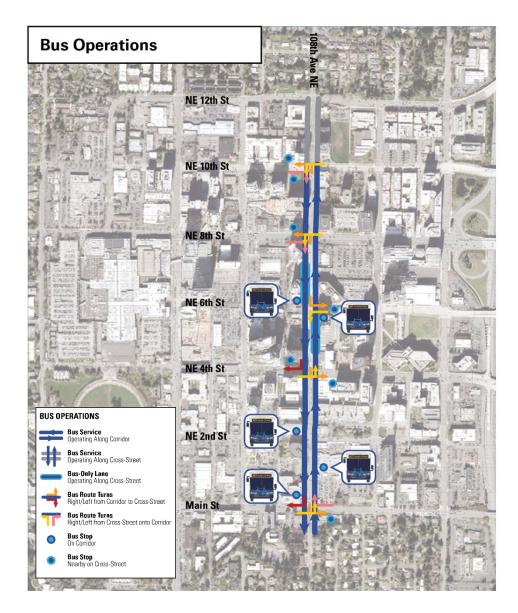


106th Ave | Curbside Environment

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Environment	Transit Access				



Evaluation Criteria



Transit Environment	
Bus Operations	Transit Access

Designated a priority transit corridor

Frequent service

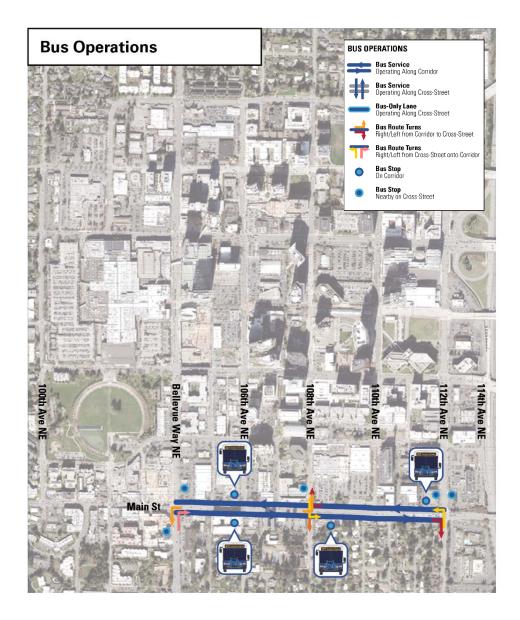
High bus volumes

Transit access:

- 5 stops along corridor
- 6 stops nearby on cross-streets
- Bellevue Transit Center at NE 6th St



108th Ave | Transit Environment



Transit Environment	
Bus Operations	Transit Access

Variable frequent service (sometimes served by ST Route 550)

Designated as a future Frequent Transit Network (FTN) corridor

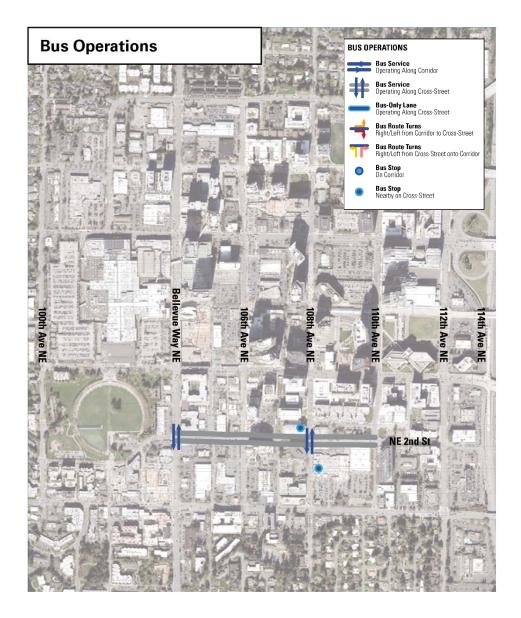
Moderate bus volumes

Transit access:

- 4 stops along corridor
- 5 stops nearby on cross-streets



Main St | Transit Environment



Transit Environment	
Bus Operations Transit Access	

No transit service along corridor

High bus volumes on cross-streets

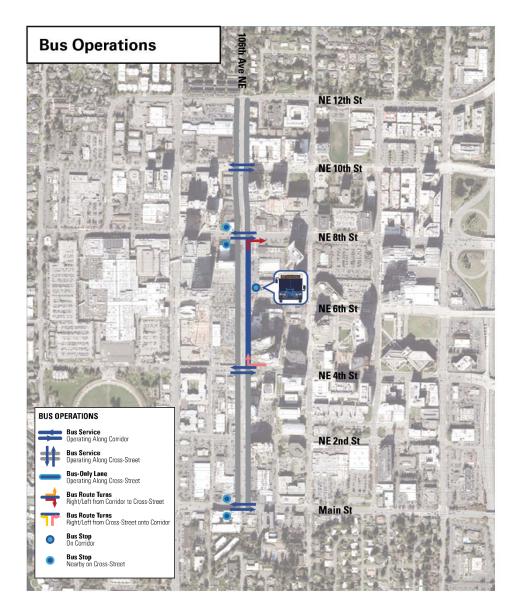
(Bellevue Way NE; 108th Ave NE)

Transit access:

- 2 stops nearby on cross-streets



NE 2nd St | Transit Environment



Transit Environment	
Bus Operations	Transit Access

Minimal transit service along corridor (Metro Route 240 only)

High bus volumes on cross-streets

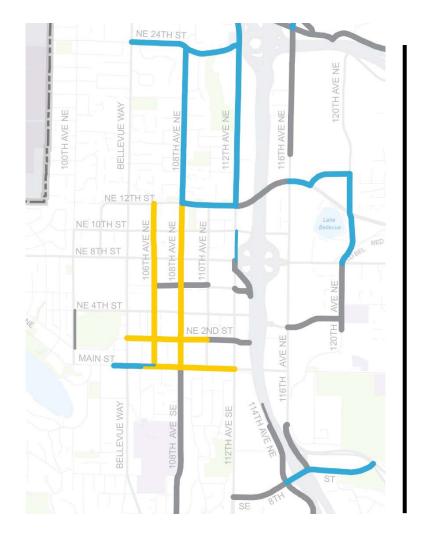
Potential impact to existing bus layover space between NE 6th St and NE 8th St

Transit access:

- 1 stop along corridor
- 4 stops nearby on cross-streets



106th Ave | Transit Environment

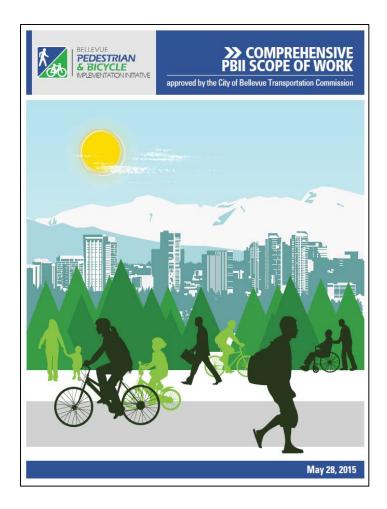


Initial Feedback?

- 1. Questions/concerns?
- On which corridor should we advance a demonstration bikeway project in 2018?
- 3. Are there any factors missing from this assessment that would help to inform #2?



BDA Feedback



"Provide people in Bellevue access to a bicycle when they want one, without having to worry about storage, security, and maintenance."

- PBII Scope of Work



Bike Share



9. If a bike share service was available in Bellevue today, would you use bike share in Bellevue?

O Yes, I would use bike share in Bellevue

No, I would not use bike share

I don't know

Please explain why or why not.

10. If a bike share service was available in Bellevue today, in which parts of the city would you use bike share?

Downtown Bellevue



Bicycling and Bike Share Survey



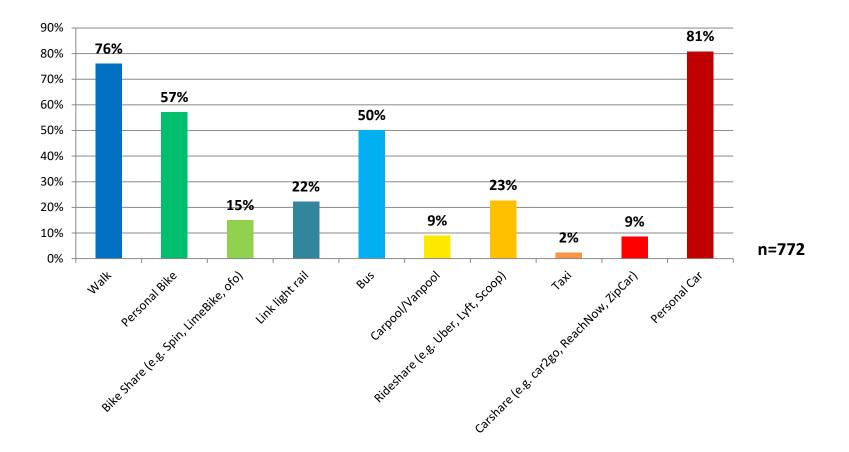
Total Respondents: 773

- 52% are Bellevue residents
- 33% work in Downtown Bellevue
- 20% work in Seattle
- 18% work in other Eastside communities



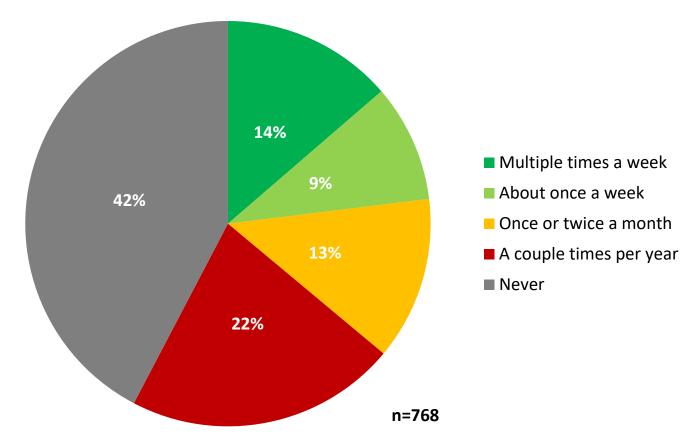


Q1: How do you get around on a regular basis? Select all the different transportation modes you use frequently.



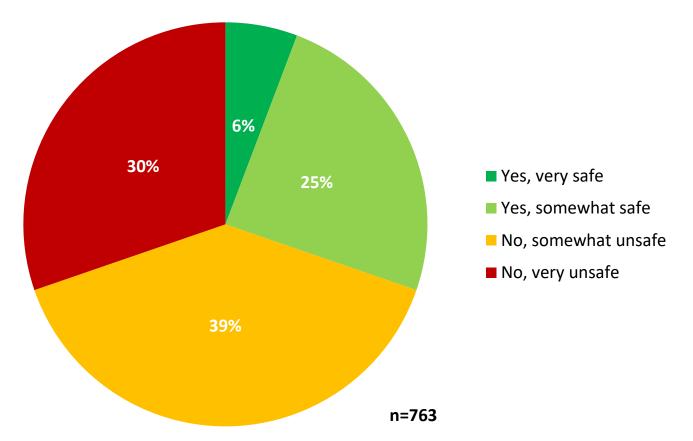


Q2: How often do you typically ride a bike in Downtown Bellevue?



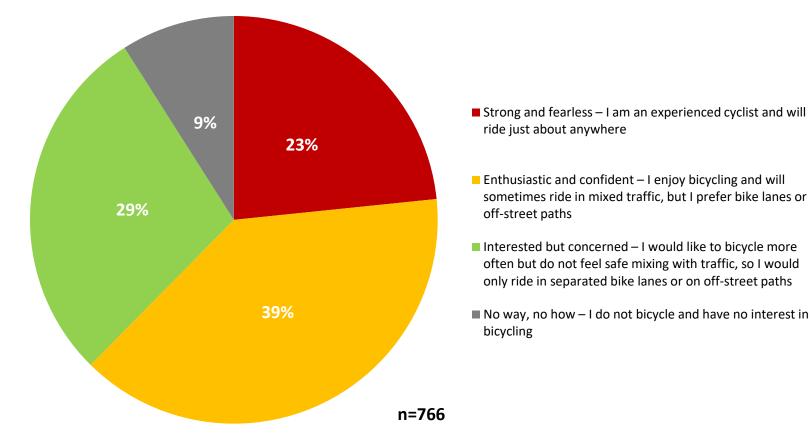


Q4: Do you feel that Downtown Bellevue is a safe place to ride a bike today?



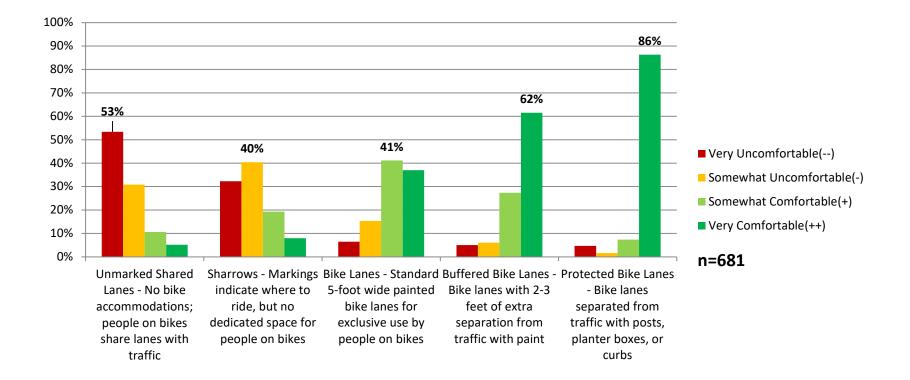


Q5: Which of the following do you feel best describes your relationship to bicycling?



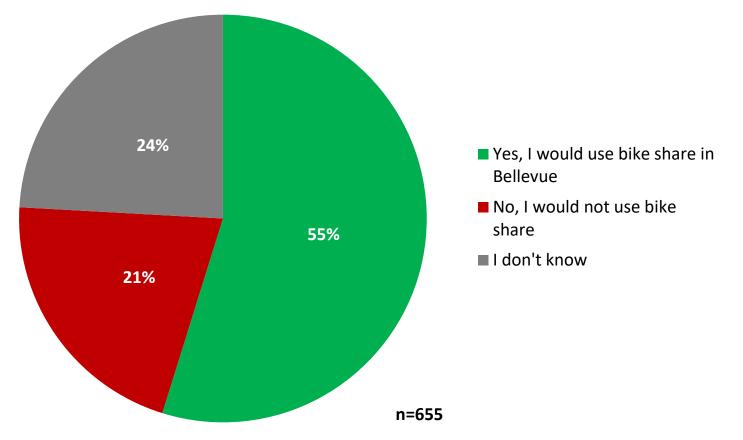


Q6: On a typical street in Downtown Bellevue, what would be your level of comfort with riding on each of the following types of bike facilities?



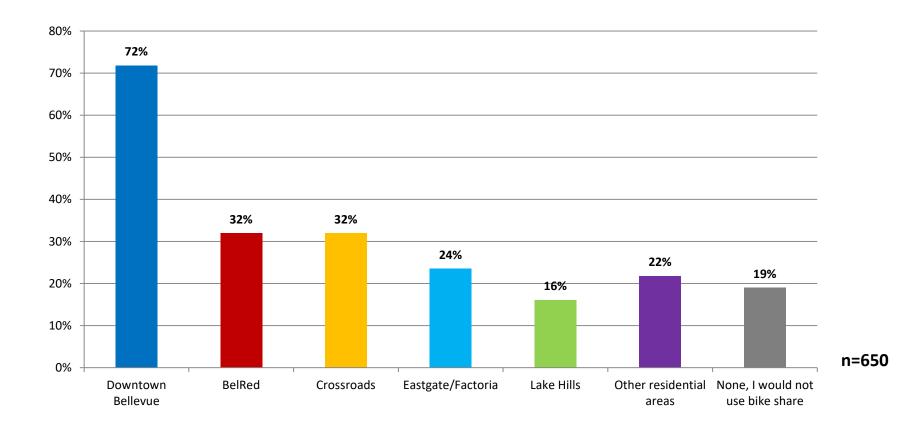


Q9: If a bike share service was available in Bellevue today, would you use bike share in Bellevue?



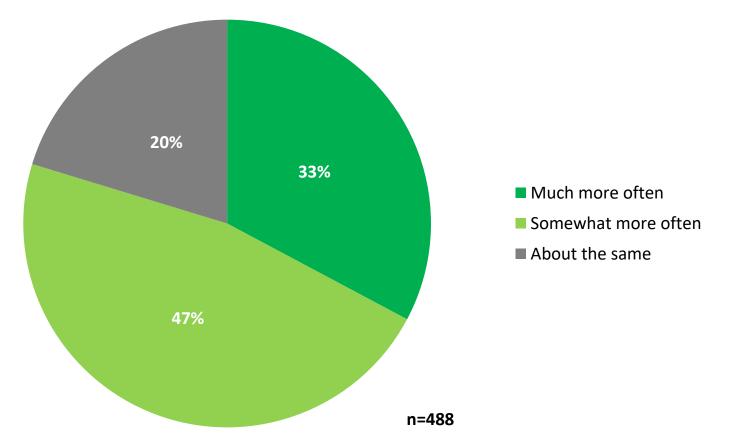


Q10: If a bike share service was available in Bellevue today, in which parts of the city would you use bike share?





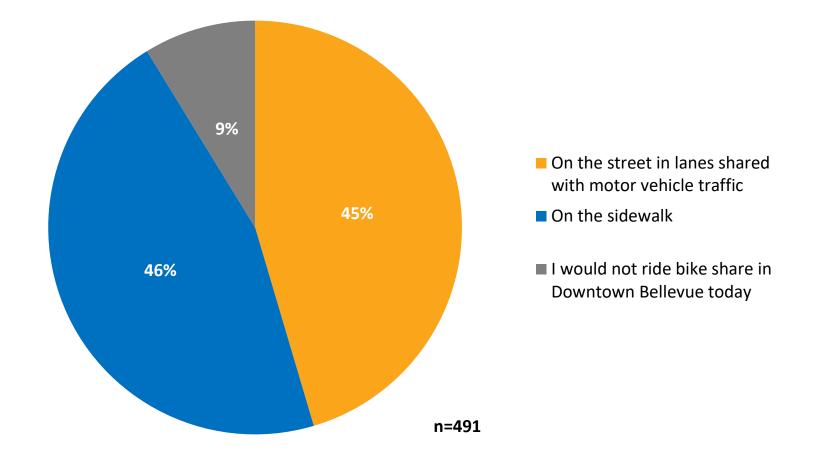
Q11: If a bike share service was available in Downtown Bellevue today, how much more often would you ride a bike in Downtown Bellevue than you do now?





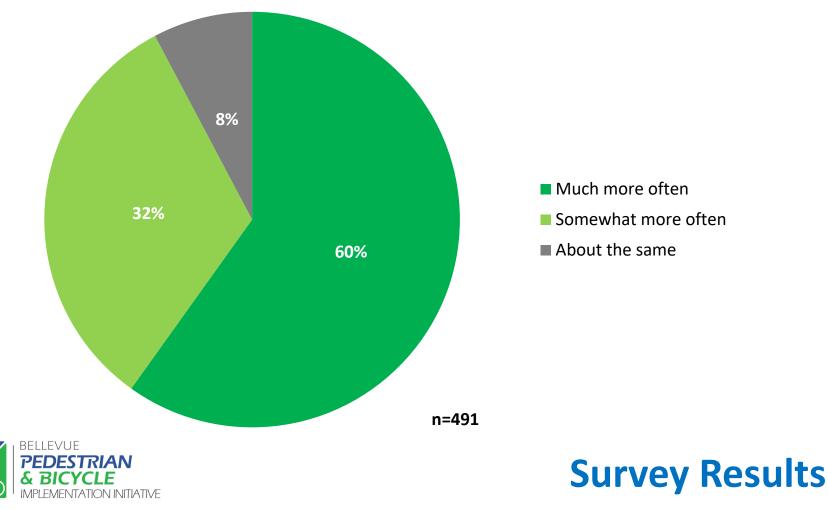


Q12: If a bike share service was available in Downtown Bellevue today, where would you typically ride?





Q13: If a network of comfortable and safe bicycle facilities were available in Downtown Bellevue, how much more often would you ride a bike (your own or bike share) in Downtown Bellevue than you do now?





Initial Feedback?

- 1. Questions/concerns?
- 2. Should we permit private companies to operate bike share in Bellevue in 2018?



BDA Feedback on Bike Share



Franz Loewenherz

Transportation Department floewenherz@bellevuewa.gov
425-452-4077



