



**MOBILITY  
IMPLEMENTATION  
PLAN**



# Mobility Implementation Plan

**Transportation Commission  
September 23, 2021**

Kevin McDonald & Chris Breiland





# Performance Targets

## Topics for September 23, 2021

- Review Performance Metrics and Performance Targets for Pedestrian, Bicycle, and Transit
- Describe staff recommendation for Vehicle Performance Targets
- Discuss and seek Transportation Commission input on Vehicle Performance Targets

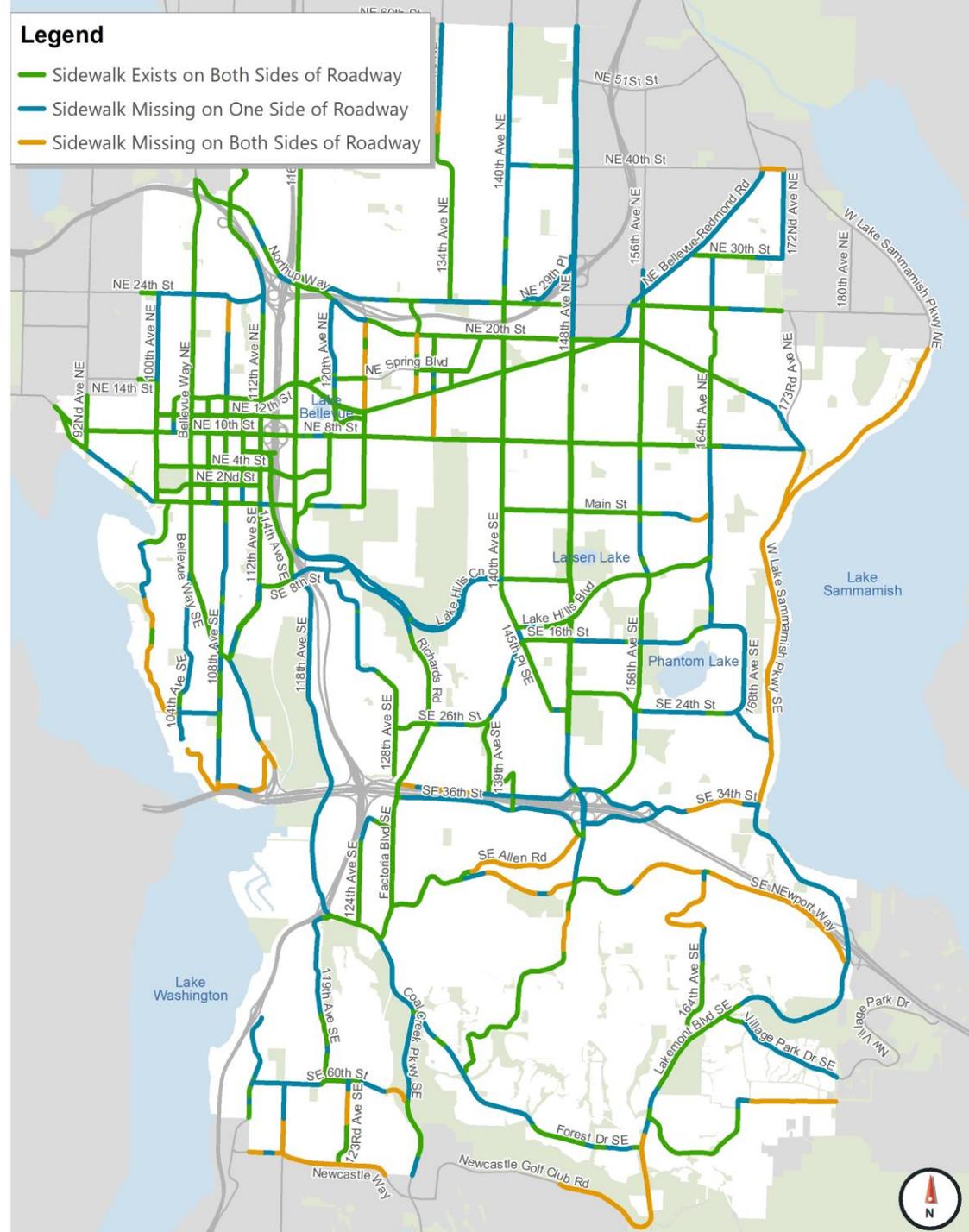




# Pedestrian Performance Targets

## Sidewalk width + Landscape strip on Arterials

- Prioritize projects to fill gaps in the pedestrian network
  - Access to transit
  - Growth Areas





# Pedestrian Performance Targets

## Pedestrian Network Performance

### Citywide Sidewalk System Completion

	Miles	Proportion
Sidewalks on Both Sides of the Street	74	52%
Sidewalks on One Side of the Street	51	36%
Sidewalk Gaps	17	12%
Total Sidewalk Distance	158	100%

### Proportion of Sidewalk System Completion by Performance Management Area

PMA	Sidewalks on Both Sides	Sidewalks on One Side	Sidewalk Gaps
1. Downtown	96%	4%	0%
2. BelRed	78%	14%	8%
3. Wilburton/East Main	57%	43%	0%
4. Crossroads	100%	0%	0%
5. Eastgate	29%	62%	8%
6. Factoria	68%	29%	3%
7. Residential	43%	41%	16%

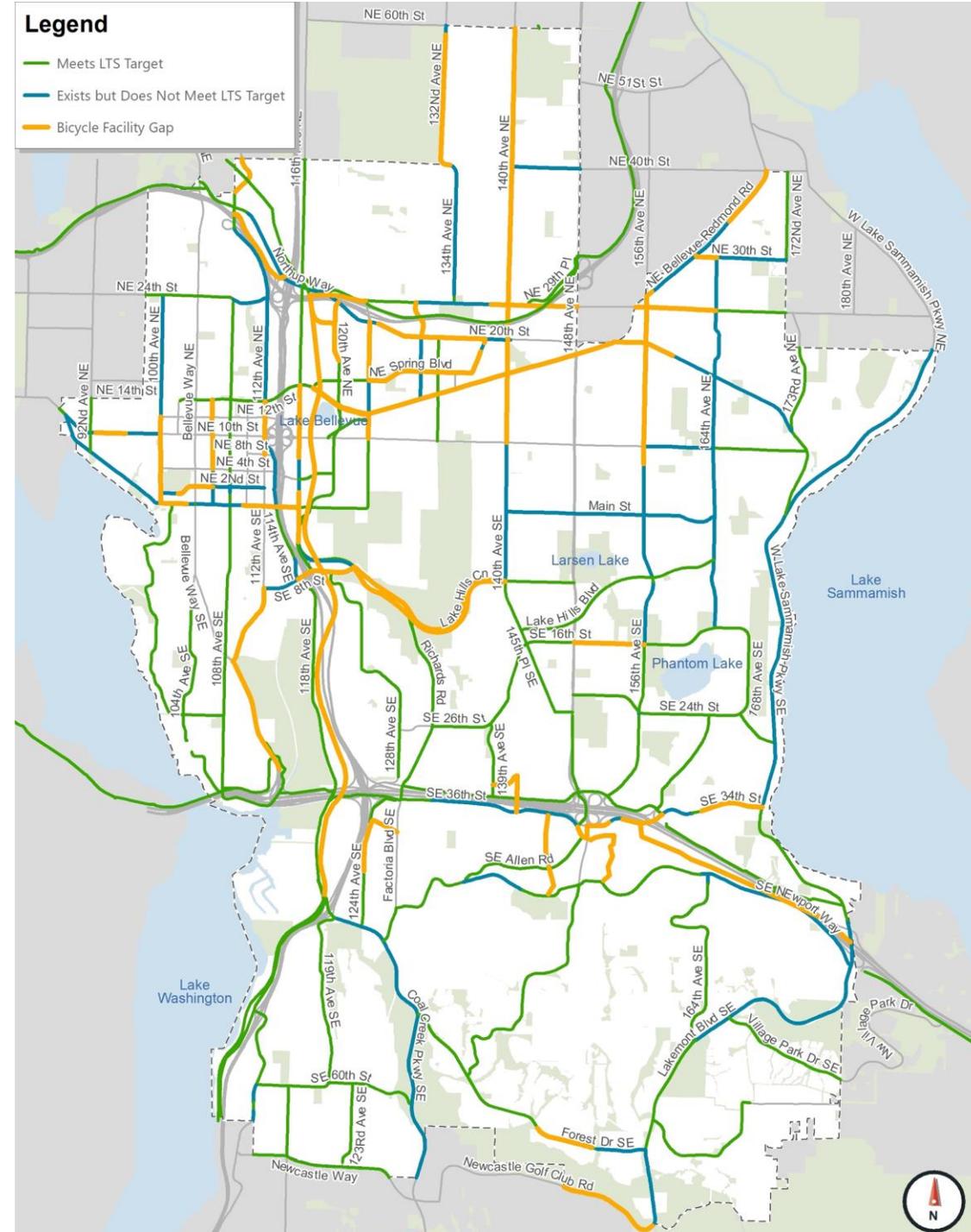


# Bicycle

## Performance Targets

### Level of Traffic Stress on Bicycle Network in the Pedestrian and Bicycle Transportation Plan

- Prioritize projects to fill gaps
  - Implement the Priority Bicycle Corridors
  - Also, Urban Core Bicycle Rapid Improvement Program



MOBILITY IMPLEMENTATION PLAN



# Bicycle Performance Targets

## Bicycle Network Performance

### Citywide Bicycle System Completion

	Miles	Proportion
Meets LTS Standard	69	54%
Exists but Does Not Meet LTS Standard	32	25%
Gap in Bicycle Network	28	22%
Total Bikeway Distance	129	100%

### Proportion of Bicycle System Completion by Performance Management Area

PMA	Meets LTS Standard	Exists but Does Not Meet LTS Standard	Gap in Bicycle Network
1. Downtown	24%	35%	41%
2. BelRed	32%	8%	60%
3. Wilburton/East Main	54%	15%	31%
4. Crossroads	0%	60%	40%
5. Eastgate	64%	20%	16%
6. Factoria	53%	32%	15%
7. Residential	60%	26%	14%



# Bicycle Performance Targets

## Priority Bicycle Corridor Facility Performance - Existing

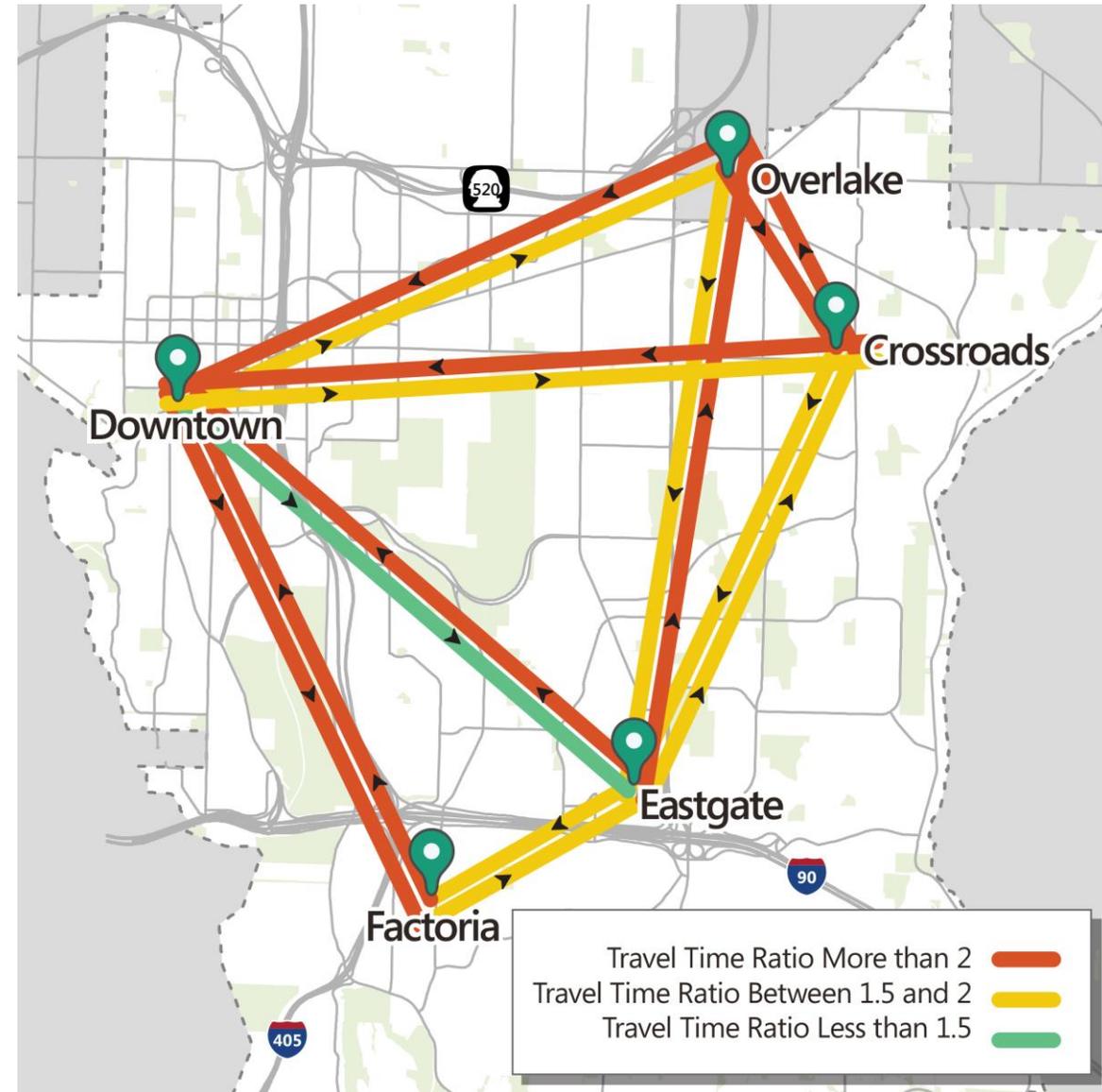
Priority Bicycle Corridor	Miles	Facilities That Meet LTS	Existing Facilities That Do Not Meet LTS	Facility Gaps
Enatai-Northtowne	4	91%	9%	0%
Lake Washington Loop	8	68%	23%	9%
Eastrail	8	32%	0%	68%
Somerset-Redmond	9	62%	13%	25%
Spiritridge-Sammamish	6	43%	57%	0%
West Lake Sammamish Parkway	5	23%	77%	0%
520 Trail	4	77%	23%	0%
Downtown-Overlake	3	33%	0%	67%
Lake-to-Lake	7	49%	22%	29%
Mountains to Sound Greenway	6	30%	23%	47%
Coal Creek-Cougar Mountain	7	55%	38%	7%
<b>Total</b>	<b>67</b>	<b>55%</b>	<b>26%</b>	<b>19%</b>



# Transit Performance Target

## Bus Stop Amenities and Access + Transit Time Ratio between Activity Centers

- "Transit Travel Time Ratio"
  - Time on transit compared to time in private car
- Transportation Research Board guidelines
  - Less than 1.5 is reasonable for most riders
  - Greater than 2.0 is too slow





# Setting Vehicle Performance Targets

## System Intersection V/C + Corridor Travel Speed (varies by PMA)

- Informed by BKRCast model of traffic conditions in 2044
  - Land use allocated by King County (projected 2019-2044 Growth)
    - 80K Jobs
    - 35K Housing
  - Vehicle capacity improvements
    - Preliminary 2033 TFP project list
    - Improvements provided by other agencies





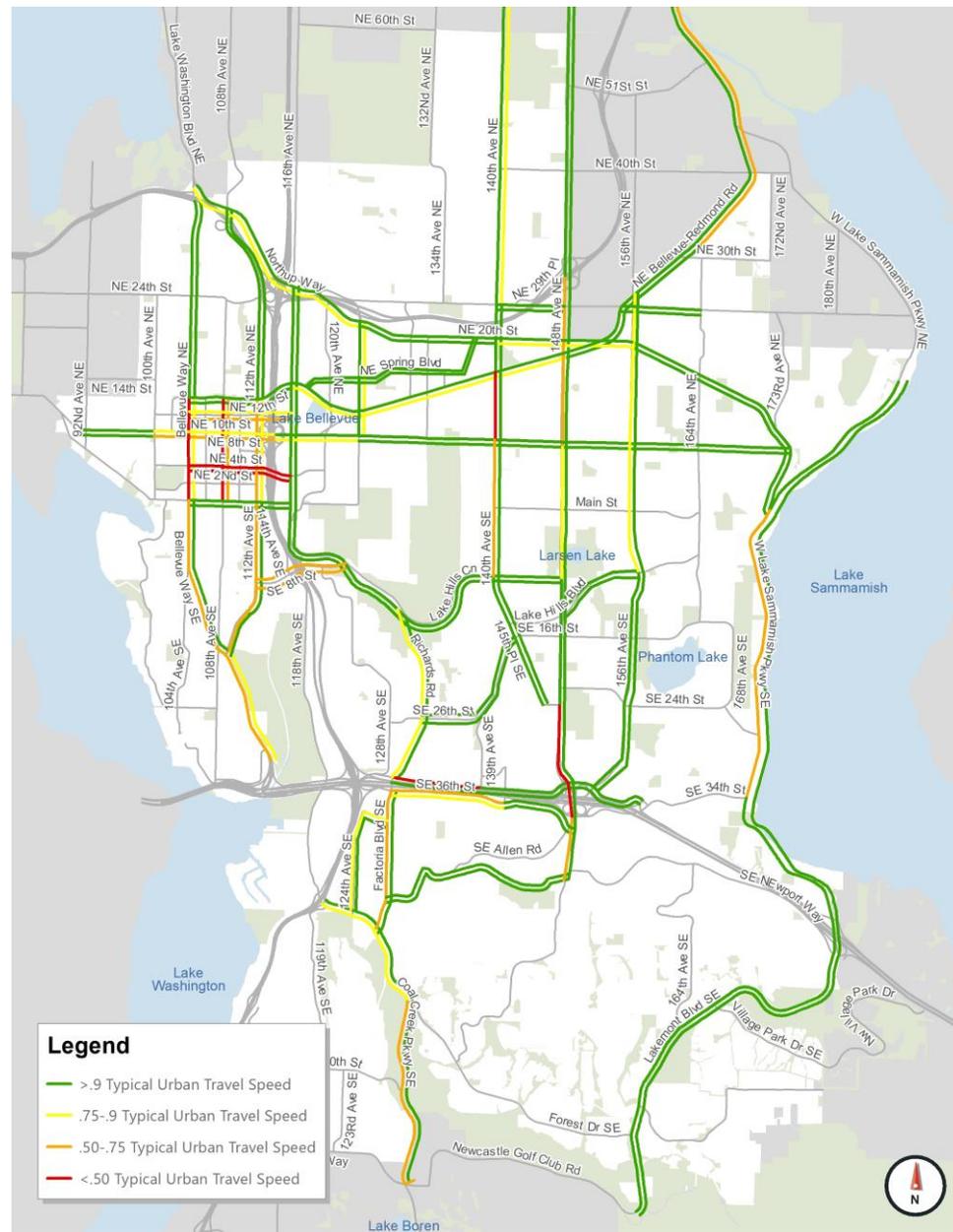
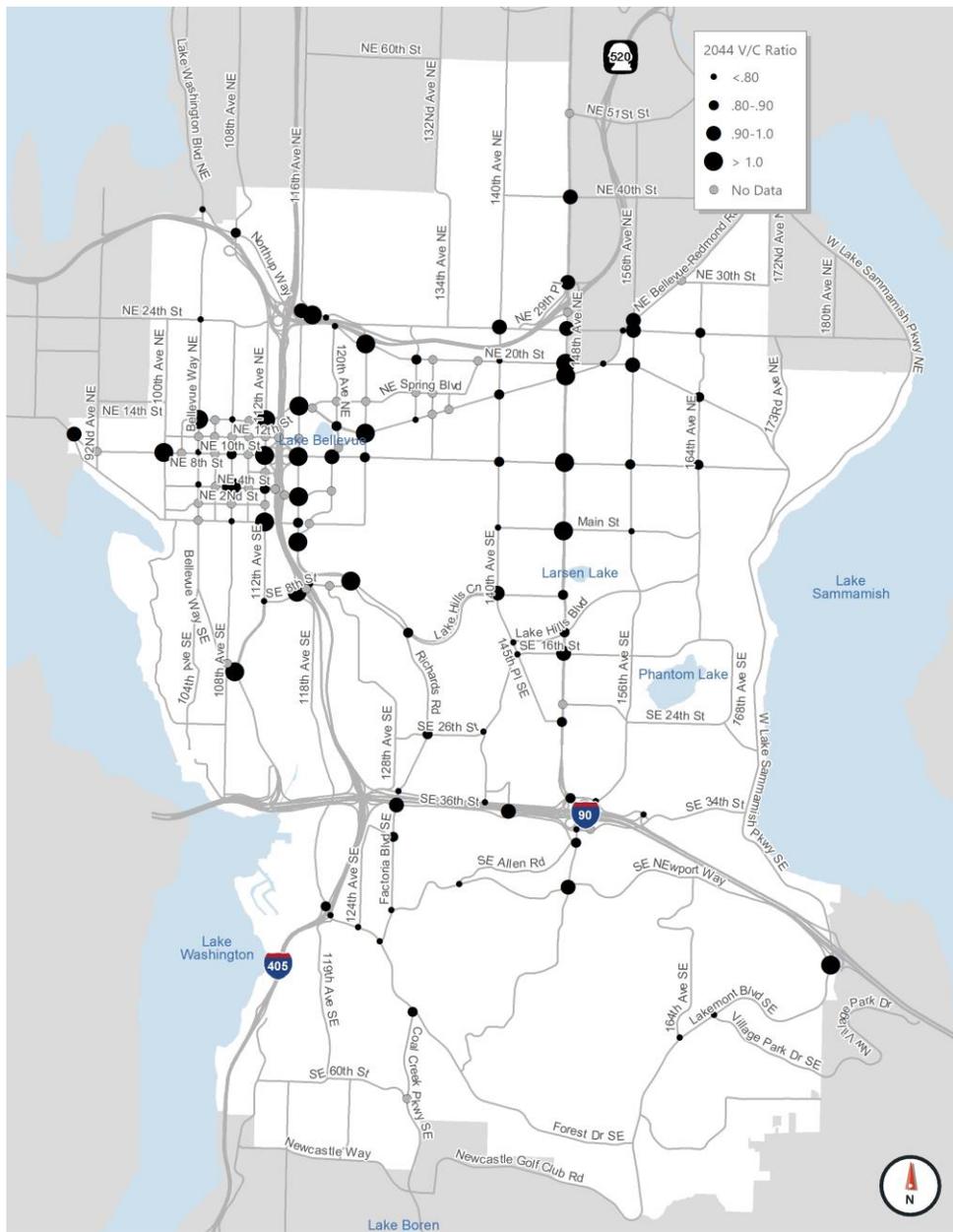
# Setting Vehicle Performance Targets

## Land Use Growth Scenario (2019-2044)

Performance Management Area	2019 (Existing)		2044 (Scenario)		2019-2044 Growth	
	Jobs	Housing Units	Jobs	Housing Units	Jobs	Housing Units
<b>Downtown</b>	59,870	9,960	111,180	23,320	51,310	13,360
<b>BelRed</b>	15,430	1,840	31,370	15,020	15,940	13,180
<b>Wilburton/East Main</b>	8,580	710	21,770	4,260	13,190	3,550
<b>Crossroads</b>	2,730	4,150	2,670	4,330	-60	180
<b>Eastgate</b>	18,670	1,590	17,340	2,490	-1,330	900
<b>Factoria</b>	8,630	1,590	7,710	2,130	-920	540
<b>Residential Areas</b>	23,810	44,540	25,920	47,800	2,110	3,260
<b>Grand Total</b>	137,720	64,380	217,960	99,350	80,240	34,970



# 2044 Vehicle Performance Metric Results





# Basis for the Recommended Vehicle Performance Targets

- Land use access improved across the city
- Leverage investments from city, other agencies, and private development
- Traffic volume will increase
- Balance environmental impacts, costs, changing modal priorities, public's concern over traffic congestion

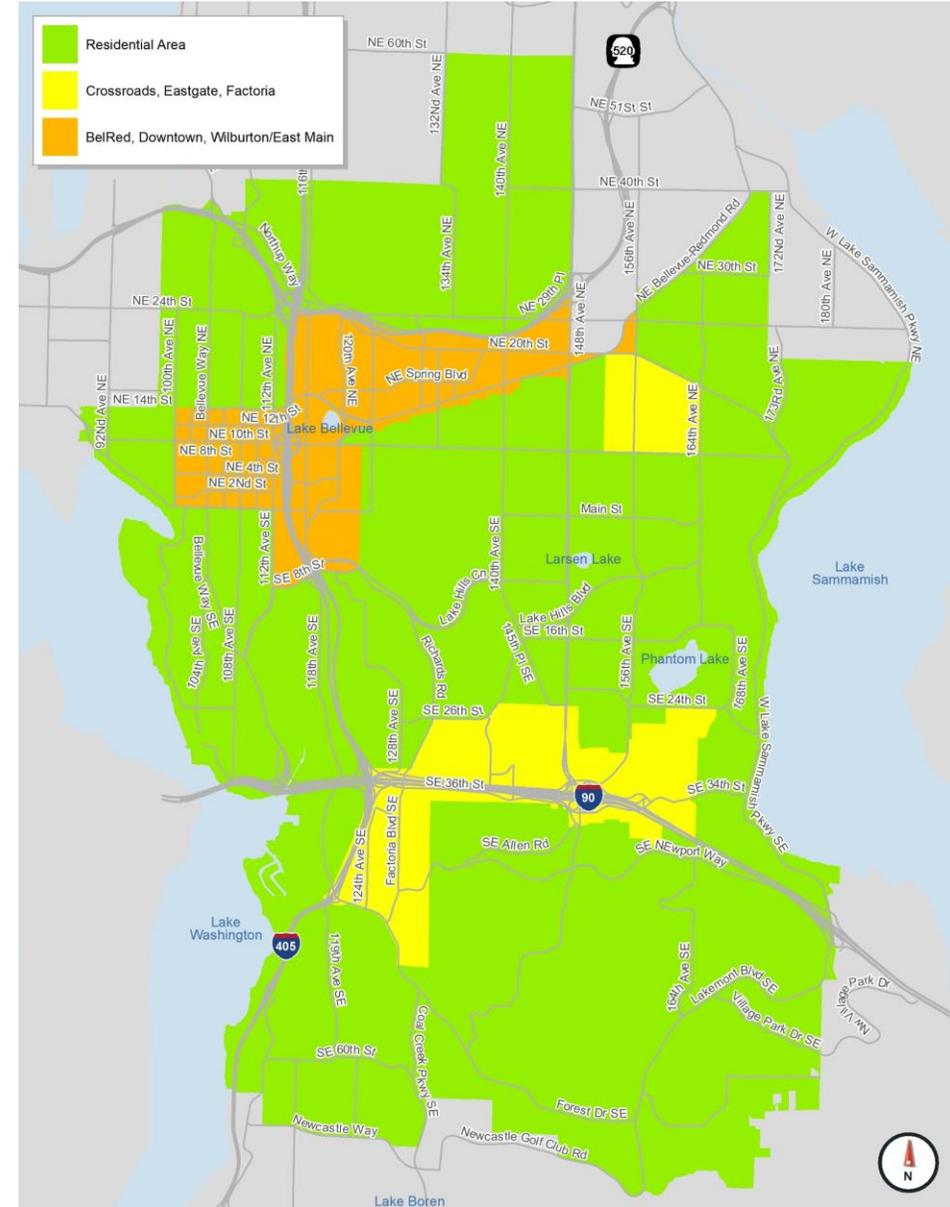




# Vehicle Performance Targets

## Performance Management Areas and Vehicle Performance Targets

Type	Performance Management Area	Recommended Vehicle Performance Target	
		System Int. V/C	Cor. Speed Ratio
1	Downtown BelRed Wilburton/ East Main	1.0	0.5
2	Crossroads Eastgate Factoria	0.90	0.75
3	Residential Area	0.85	0.9

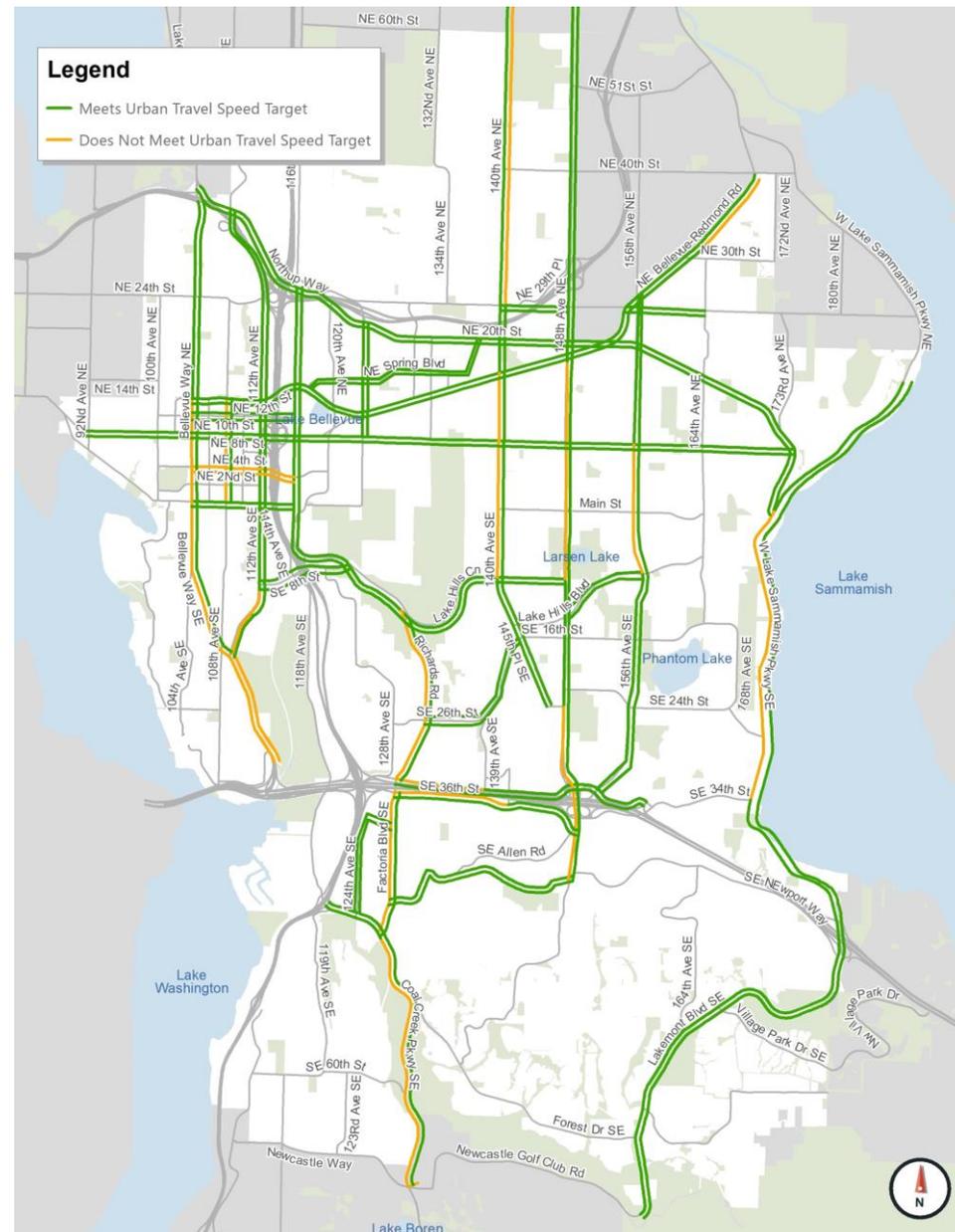
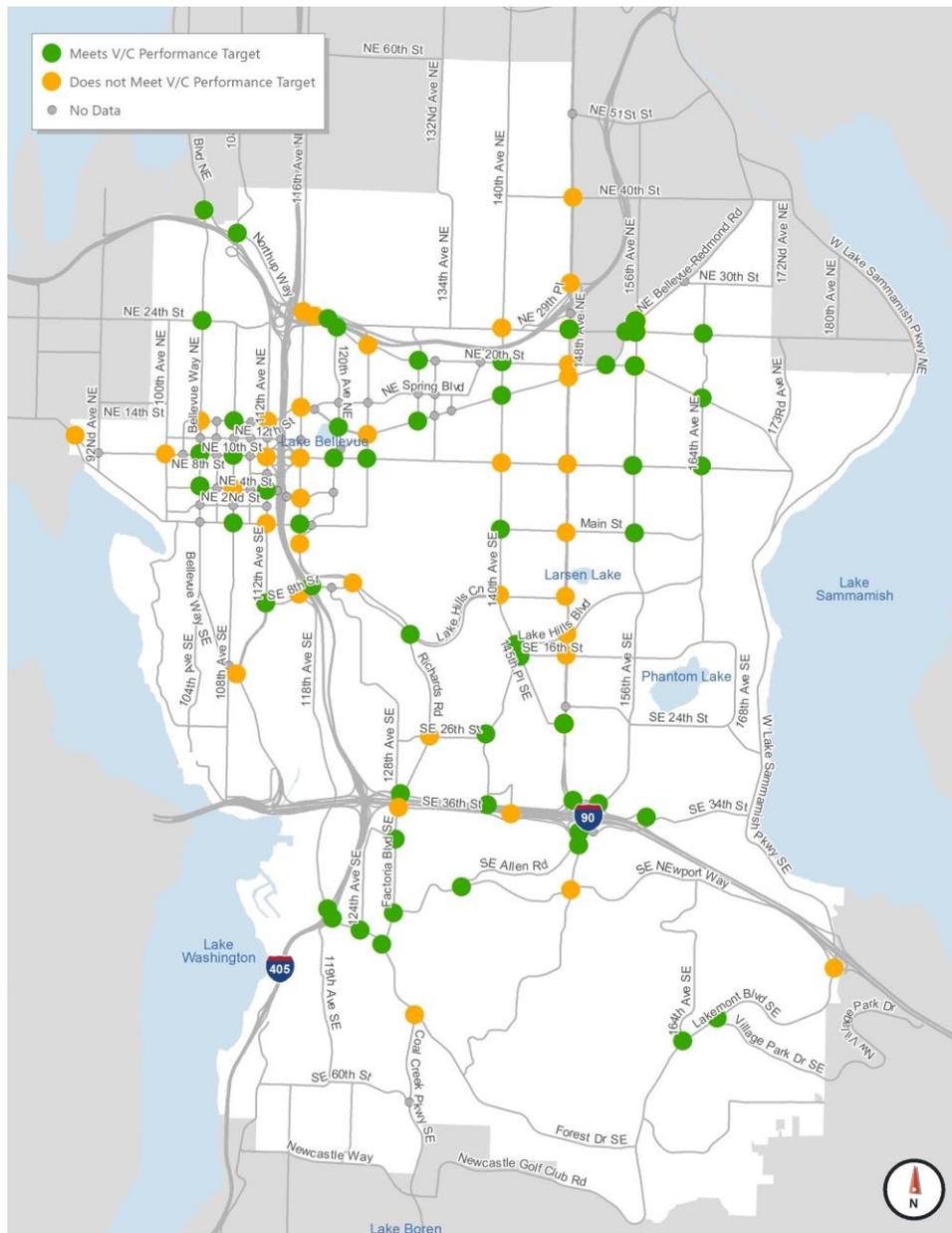


MOBILITY IMPLEMENTATION PLAN





# 2044 Performance Targets Results



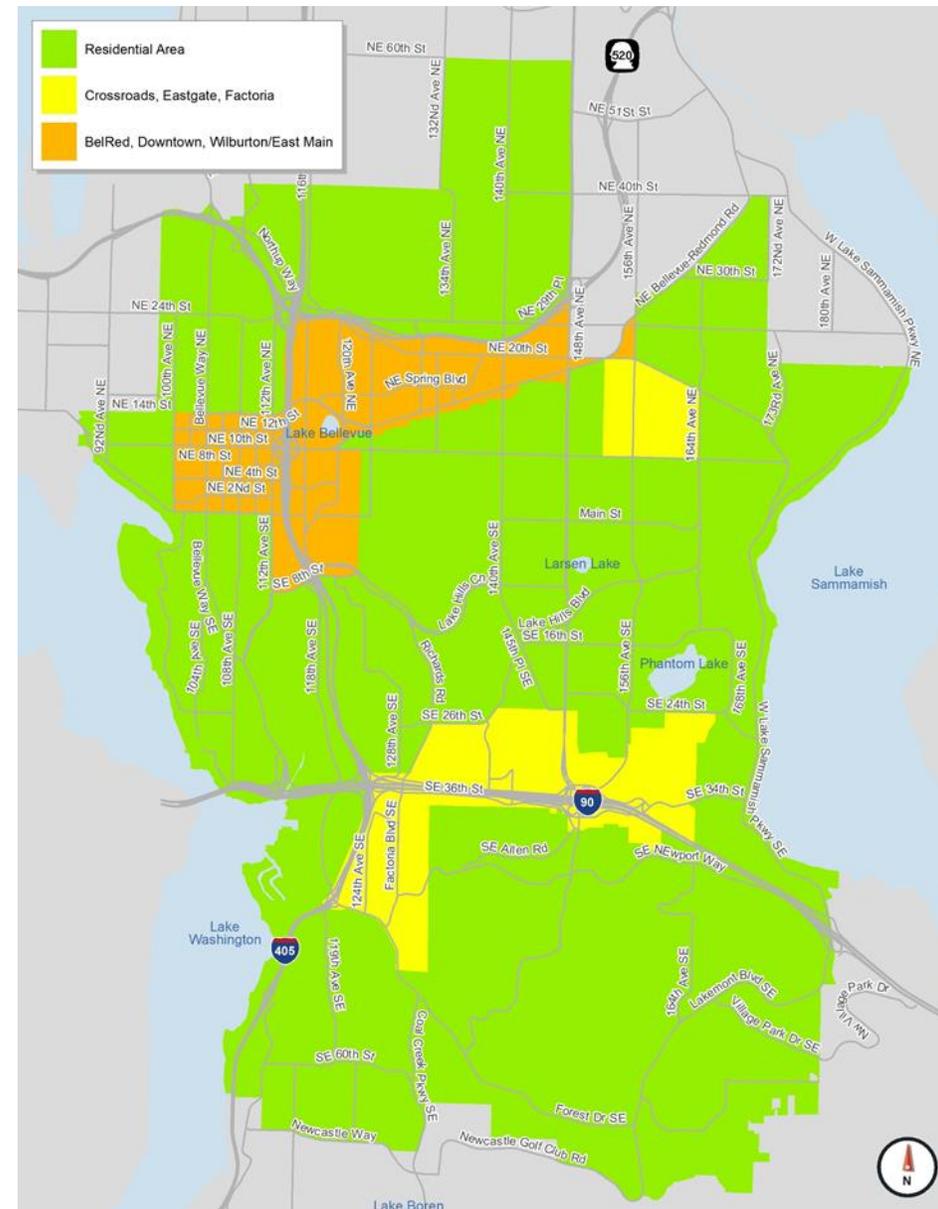


# Vehicle Performance Targets

Clarifying questions

Comments/Discussion

**TC Guidance** on Vehicle Performance Targets for the Mobility Implementation Plan; reconfirm when considering project prioritization





# Next Steps

## October 14

Discuss recommended approach to addressing Performance Target gaps, identifying potential projects, and prioritizing projects



# Thank You!



Level-of-Service in Bellevue

*Toward a Multimodal Approach to Mobility*

Kevin McDonald

[kmcdonald@bellevuewa.gov](mailto:kmcdonald@bellevuewa.gov)

425-452-4558

Chris Breiland

[c.breiland@fehrrandpeers.com](mailto:c.breiland@fehrrandpeers.com)

206-576-4217

Please visit the

[Mobility Implementation Plan](#) web site