



Transportation Commission September 9, 2021

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Vehicle Performance Metrics and Performance Management Areas

- Discuss and seek TC concurrence:
 - Performance Management Areas
 - Primary Vehicle Corridors
 - System Intersections
- Discuss recommended approach to address gaps in Performance Targets

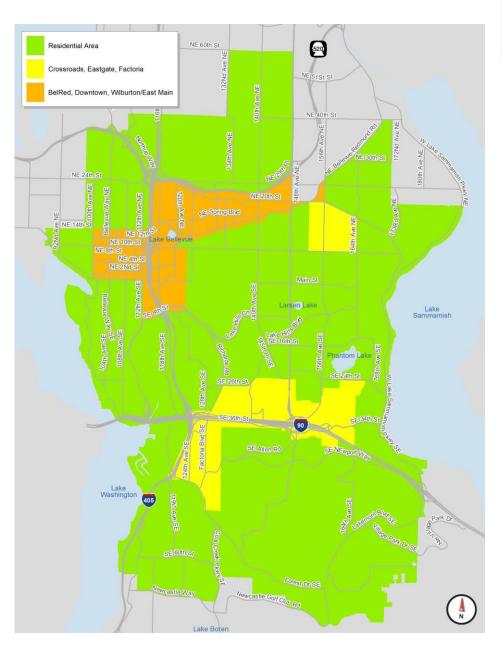




Performance Management Areas

Performance Management Area Typologies		
Туре	Context	Location
1	Mixed-Use, High-Density, High-Growth, Light Rail, Many Mobility Options	Downtown BelRed Wilburton/East Main
2	Mixed-Use/Commercial, Moderate-Density, Frequent Bus Service	Crossroads Eastgate Factoria
3	Residential, Low-Density, Fewer Mobility Options	All remaining areas

7 PMAs are currently identified; could further consolidate once Performance Targets are set





Primary Vehicle Corridors

- Foundation for citywide vehicle system performance analysis
 - All Corridor Travel Speed and System Intersection evaluation on these corridors
- Definition:
 - Classified as an arterial (collector, minor, or major)
 - Highest-volume roads in Bellevue; over 10,000 vehicles per day
 - Between 0.5 and 2.0 miles in length

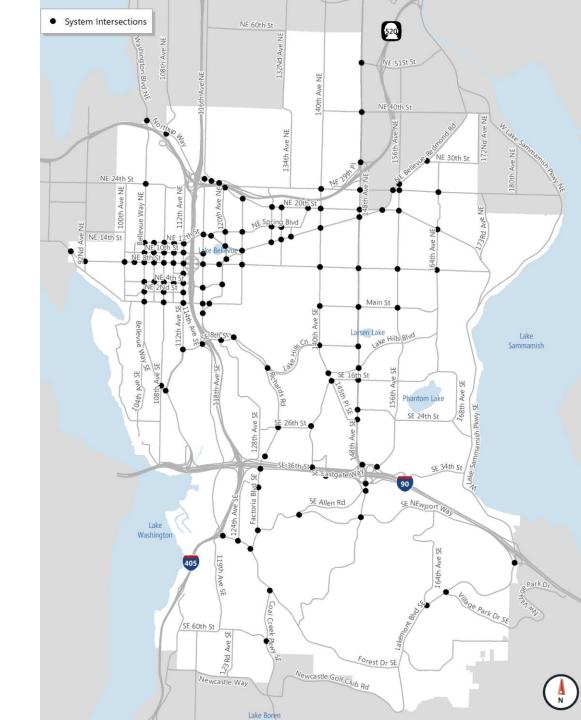




System Intersections

Recommended criteria:

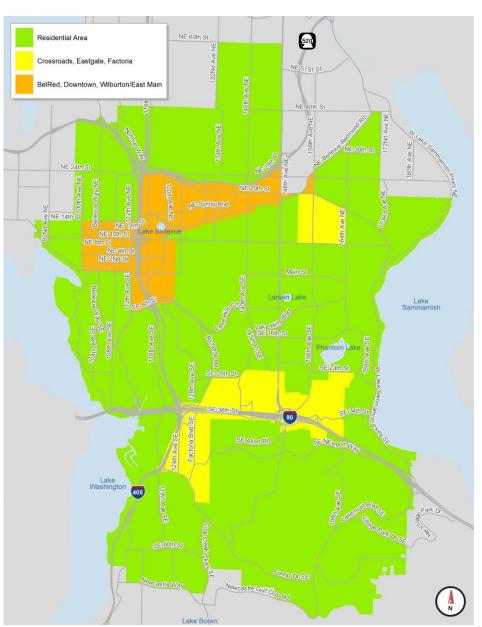
- Signalized or roundabout intersection with two arterials
- Located along a Primary Vehicle Corridor





Evaluating Vehicle Performance

- Performance Management Areas used to define the Performance Targets
- Performance Metrics evaluated at:
 - System Intersections using v/c method
 - Primary Vehicle Corridors using corridor travel speed method
- Performance Target is evaluated individually at each System Intersection and Primary Vehicle Corridor segment
 - No averaging of results





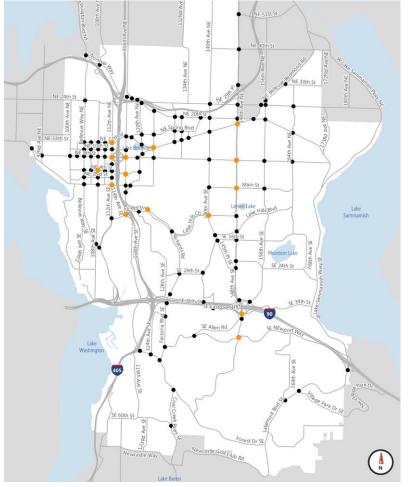
Identifying and Addressing Vehicle Performance Target Gaps

Identify Performance Target gaps

Primary Vehicle Corridors



System Intersections





Identifying and Addressing Vehicle Performance Target Gaps

- Identify Performance Target gaps
- Focus investments/interventions to address gaps following MIP prioritization goals
- Recognize not all gaps may be addressed in the TFP given funding constraints, environmental and equity considerations, limited right-of-way, etc.
- Document alternative investments or reasons no investments are being made for each gap not addressed in the TFP



Identifying and Addressing Vehicle Performance Target Gaps

Intersection A:

- Does not meet intersection v/c Performance Target for Performance Management Area
- Right-of-way not available because of adjacent properties and wetland
- Opportunity to improve bicycle network and capacity on parallel arterial



Identifying and Addressing Vehicle **Performance Target Gaps**

Corridor B:

- Does not meet corridor travel speed target for PMA
- Right-of-way is available (mostly) to add a new travel lane
 - Some additional right-of-way would be acquired (\$)
- To add a travel lane would address vehicle performance and may also meet Performance Targets for pedestrian and bicycle modes
- Primary access route to freeway system



Identifying and Addressing Vehicle **Performance Target Gaps**

- Identify Performance Target gaps
- Focus investments/interventions to address gaps according to MIP prioritization goals
- Recognize not all gaps may be addressed in the TFP given funding constraints, environmental and equity considerations, limited right-of-way, etc.
- Document alternative investments or reasons investments are not being made for each gap not addressed in the TFP
- Reassess Performance Target gaps at each update of TFP



Clarifying questions

Comments/Discussion/TC Concurrence

- Performance Management Areas
- Primary Vehicle Corridors
- System Intersections
- Identifying and Addressing Vehicle Performance Target Gaps



- **September 23** Set Vehicle Performance Targets for System Intersections and Primary Vehicle Corridors
 - Staff will recommend Vehicle Performance Targets
 - Informed by results of 2033 TFP analysis with new King County Growth allocations



Thank You!



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Please visit the Mobility Implementation Plan web site