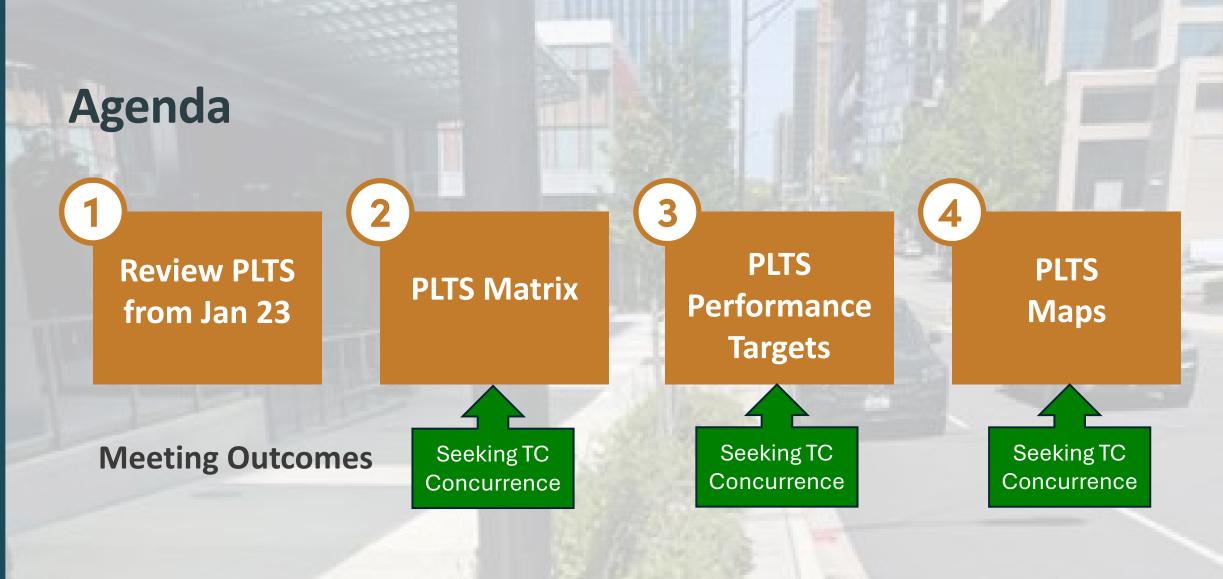
# Mobility Implementation Plan Update Pedestrian Level of Traffic Stress Transportation Commission February, 13 2025



**Kevin McDonald** 

FEHR PEERS





## TC Study Session 1/23/25

### Primary metrics **\**

- Actual travel speed
- Average daily traffic volume
- Width of sidewalk
- Width of buffer

#### Supplemental Components Type 1 Used for prioritization on arterials

- Performance Management Area
- Pedestrian Destinations: school, library, FTN stop, etc
- Accessibility Standards: ADA, PROWAG
- Safety Considerations
  - High Injury Network
  - Driveways: Commercial and Multifamily

#### Supplemental Components Type 2

Used for project concepts on arterials

- Driveways: spacing and volume of commercial and multifamily driveways
- Presence of fixed objects in buffer area
- Presence of curbside parking or bike lane
- Spacing of designated arterial crossings
- Adjacent/proximate land uses and environmental constraints

## **PLTS Primary Metrics: Schematic Matrix**

- Prepare a specific PLTS matrix using the PLTS primary metrics to fill in the cells of the evaluation matrix 💊
- Apply PLTS matrix to document existing conditions along each side of arterials (**X** coming soon)

Pedestrian Level of Traffic Stress		PLTS 1	Sidewalk Characteristics									
		PLTS 2	2 Width of Sidewalk									
		PLTS 3	<4'		4 - 6'		6' - 10'		>10'			
		PLTS 4	Width of Buffer									
Arterial Characteristics			<5'	≥5'	<5'	≥5'	<5'	≥5'	<5'	≥5'		
Arterial Actual Travel Speed	Arterial Da	aily Traffic Volume	<b>^</b> 5	25	<b>N</b>	20	<b>N</b> 0	20	<b>N</b> 0	20		
	<3k											
≤25	3k-7k											
		>7K										
	<10											
26-30 mph	10 -25k											
	>25											
21.25 mmh	<25											
31-35 mph	>25											
>35		Any										

#### Pedestrian Level of Traffic Stress (PLTS) Specific Matrix

Pedestrian Level of Traffic Stress PLTS 1 PLTS 2 PLTS 3 PLTS 4			Sidewalk Characteristics										
		PLTS 2		Width of Sidewalk									
		only shoulder	<4 feet		≥4 feet - <6 feet		6 feet - <10 feet		≥10feet				
		Width of Buffer											
Arterial Characteristics		0 feet	<5 feet	≥5 feet	<5 feet	≥5 feet	<5 feet	≥5 feet	<5 feet	≥5 feet			
Arterial Actual Travel Speed	Arterial Da	aily Traffic Volume											
≤25	≤3k		1										
	>3k-7k			2									
		>7k											
		≤10k			3								
>25-30 mph	>10 -25k												
		>25k											
>30-35 mph		≤25k											
		>25k											
>35	Any				4								

## Pedestrian Level of Traffic Stress (PLTS) Performance Targets on Arterials

General PLTS assignment for arterials:

PLTS 1 in PMA 1

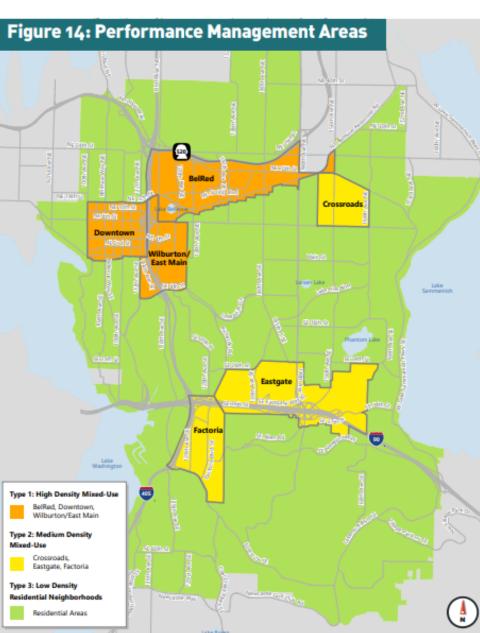
(Downtown, BelRed, Wilburton).

• PLTS 2 in PMA 2

(Crossroads, Factoria, Eastgate) Except **PLTS 1** along commercial segments of Factoria Boulevard and 156th Avenue NE.

#### • PLTS 3 or PLTS 2 in PMA 3

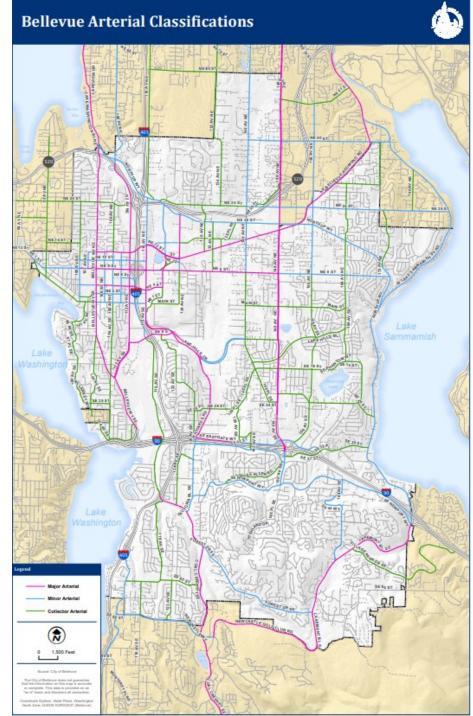
Depending on arterial classification and pedestrian destinations.



## PLTS Performance Targets on Arterials in PMA 3

#### **Arterial Classifications**

- <u>Major Arterial:</u> PLTS 3 except PLTS 2 near pedestrian destinations such as schools, libraries, FTN Stations, neighborhood shopping centers, etc.
- Minor Arterial: PLTS 2
- <u>Collector Arterial:</u> PLTS 2



## **PLTS Target MAP**





Little to no stress or concerns for safety in a comfortable pedestrian environment.

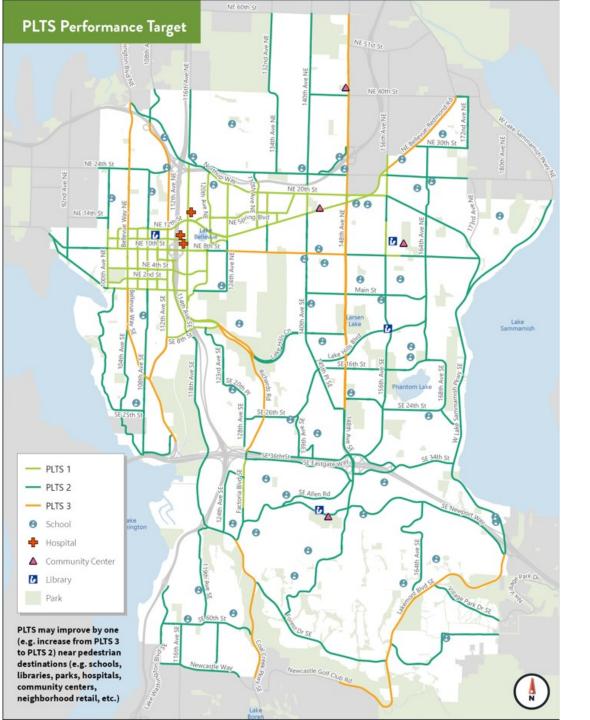




**Low stress**. Generally, a comfortable environment for people walking.



Moderate Stress Generally comfortable walking along busier streets.



## **PLTS Performance Targets on Arterials**

#### **Additional Conditions Near Schools**

PLTS near schools can be improved with school-zone speed limits, wider sidewalks and/or wider buffers.

Sidewalks may be wider than the standard in the Transportation Design Manual to safely and comfortably accommodate groups of students walking along arterials.

#### Table 3-9: Minimum Sidewalk Width per Street Type

Street Type	Minimum Sidewalk Width (feet)	Landscape Planter (feet)				
Major Arterial	8	5				
Minor Arterial	8	5				
Collector Arterial	8	5				



## **MIP Public Engagement**

Join with Transportation Facilities Plan Update Open Houses

- February 25 @ Crossroads 11:00 1:00
- February 26 @ City Hall Concourse 4:30-7:00

#### **Engaging Bellevue**

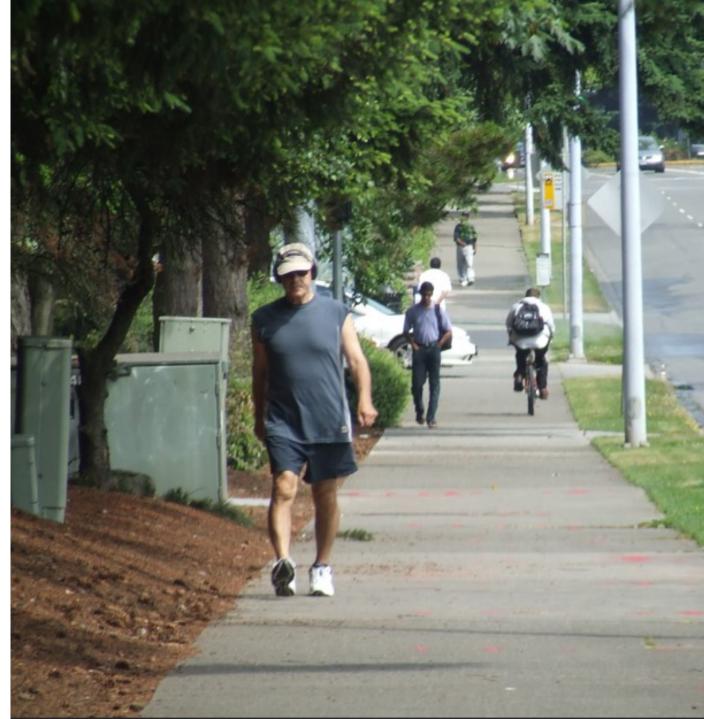
- Feedback on existing local street network connections for peds and bikes as originally defined in the Pedestrian and Bicycle Transportation Plan (2009)
  - Confirm
  - Add
  - Delete

## **Discussion/Direction**

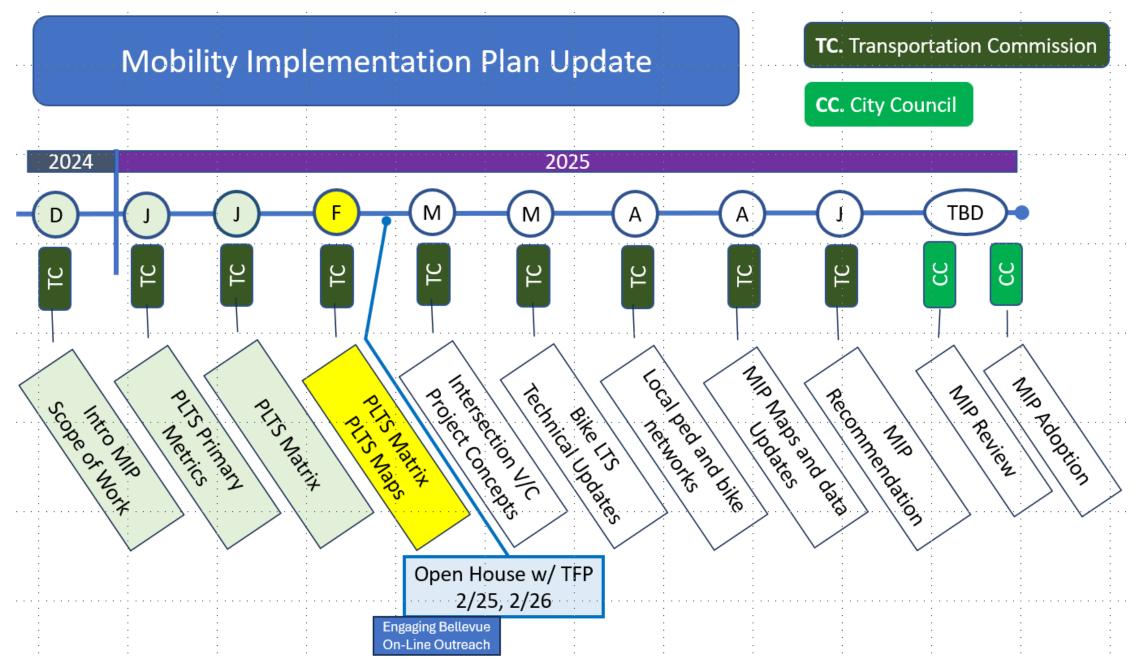
Questions and clarification

Concurrence with PLTS Specific Matrix PLTS Performance Targets PLTS Map

TC welcome to join in TFP/MIP Open Houses



### **MIP Update Timeline**



# **Thank You**

Kevin McDonald <u>kmcdonald@bellevuewa.gov</u>

Chris Breiland <u>c.breiland@fehrandpeers.com</u>