

Potential Mobility Policy Elements and Most Promising Performance Measures to Consider for Testing

Metro and the Oregon Department of Transportation (ODOT) are working together to update the policy on how we define and measure mobility in the Portland region in the Oregon Highway Plan (OHP), Regional Transportation Plan (RTP), local transportation system plans (TSPs) and corridor plans, and during the local comprehensive plan amendment process. This document summarizes the potential mobility policy elements and most promising performance measures being considered for testing through case studies. Throughout April and May, Metro and ODOT will engage the Metro Council, regional advisory committees (JPACT and the Metro Policy Advisory Committee), county coordinating committees (staff and policy-levels), and other stakeholders to seek feedback on the key policy elements and most promising measures. In June, staff will report back on stakeholder feedback received on the elements and measures and seek JPACT and Metro Council direction on the measures to be recommended for testing.

Potential Mobility Policy Elements

The project team reviewed existing state and regional policy documents and [past stakeholder input](#) from the 2018 Regional Transportation Plan update, development of the Get Moving 2020 funding measure and the [Scoping Engagement Process](#) for this effort. Based on this review and subsequent feedback received through two workshops with the Transportation Policy Alternatives Committee (TPAC) and Metro Technical Advisory Committee (MTAC) in fall 2020, five key transportation outcomes were identified as integral to how we view mobility in an urban environment, specifically in the Portland region:

- **Access** – All people and goods can get where they need to go.
- **Time Efficiency** – People and goods can get where they need to go in a reasonable amount of time.
- **Reliability** – Travel time is reliable or predictable for all modes.
- **Safety** – Available travel options are safe for all users.
- **Travel Options** – People can get where they need to go by a variety of travel options or modes.

TPAC and MTAC also provided feedback on criteria to be used to screen and select potential mobility performance measures for testing that address one or more mobility policy elements. Since January 2021, the Consultant team applied the criteria through a four-step process to narrow a list of 38 potential mobility measures to 12 potential mobility measures that appear most promising for testing through case studies this summer. The screening process is summarized on page 2.

Most Promising Performance Measures to Consider for Testing

The most promising performance measures to consider for testing are shown below, listed in order from highest to lowest screening score. As a group, the measures cover all modes. Seven of the 12 measures relate to more than one mobility policy element. Seven of the measures can be used for both system planning and plan amendments, the focus of this regional mobility policy update.

ID	Measure	Definition	Mobility Policy Elements					Planning Applications		
			Access	Time Efficiency	Reliability	Safety	Travel Options	System Performance/ Scenario Testing/Target	Needs Identification/ Project Identification	Plan Amendments/ Standard
13A	Multimodal Level of Service (MMLOS)	MMLOS is a level of service (LOS) system that measures the quality and level of comfort of facilities per mode based on factors that impact mobility from the perspectives of pedestrians, cyclists, and transit riders, respectively.	●			○	All modes	●	●	●
13B	Level of Traffic Stress (LTS)	Level of traffic stress (LTS) classifies points and segments on routes into different categories of stress ranging from 1 (low stress) to 4 (high stress) based on factors that correlate to the comfort and safety of the bicyclist or pedestrian using that facility.	●	○		●	Bike, Pedestrian	●	●	●
15	Pedestrian Crossing Index	The distance between pedestrian crossings compared to a target maximum distance.	●	●		●	Pedestrian	●	●	●
24	System Completeness	The percent of planned facilities that are built within a specified network	●	○		○	All modes	●	●	●
27	Travel Speed	Average or a percentile speed for a network segment or between key origin-destination pairs, during a specific time period.			○	●	Vehicle, Freight, Transit	●	●	●
2	Accessibility to Destinations	The number of essential destinations within a certain travel time or distance, by different modes.	●	○	○		All modes	●	●	●
10	Hours of Congestion/ Duration of Congestion	The number of hours within a time period, most often within a weekday, where a facility’s congestion target is exceeded.		●	●		Vehicle, Freight, Transit	●	●	●
29	Travel Time Reliability (Planning and Buffer Travel Time Indexes)	Indicators of congestion severity that assess on-time arrival and travel time variability.		○	●		Vehicle, Freight, Transit	●	●	●
36	VMT per Capita	The number of miles traveled by motorists within a specified time period and study area, per the study area’s population.	○	●		○	Vehicle, Freight, Transit	●	●	●
28	Travel Time	Average or a percentile time spent traveling between key origin-destination pairs, during a specific time period.		●			All modes	●	●	●
38	V/C for Roadway Links	The ratio of traffic volume to the capacity of a roadway link during a specified analysis period.		●	○		Vehicle, Freight	●	●	●
37	Volume-to-Capacity Ratio (V/C) at Intersections	The ratio of traffic volume to the capacity of an Intersection during a specified analysis period.		●	○		Vehicle, Freight	●	●	●

● = direct measure ○ = indirect measure

Together, the technical screening process and stakeholder input will help shape staff’s recommendation to JPACT and Council on the key policy elements and measures recommended for testing through case studies.

Screening Process Leading to Most Promising Mobility Measures For Testing

