

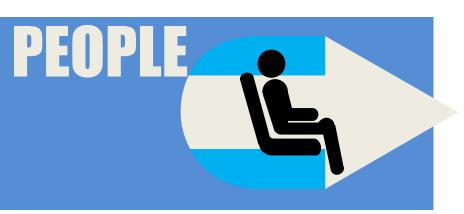
Defining Mobility as the Movement of People and Freight

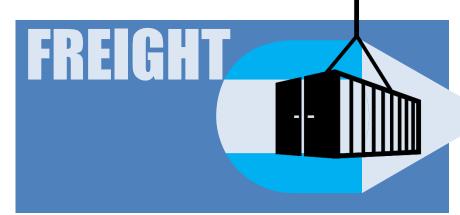
Doug McLeod

FDOT Planning Manager, Mobility Performance Measures
TRB Performance Measurement Committee



Importance of Mobility





"Providing **mobility** for people and goods is transportation's most essential function."

Mobility performance measures





Dimensions of Mobility

To adequately address mobility,

all four dimensions

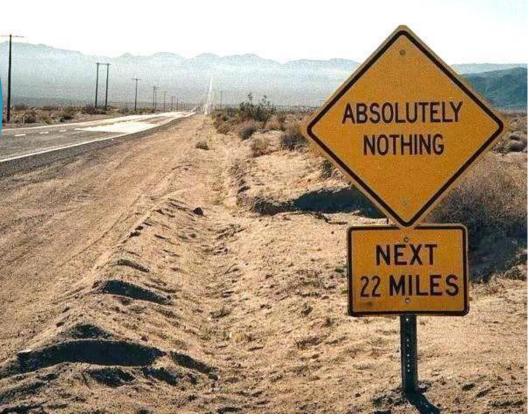
should be emphasized and multiple performance measures used.





Quantity

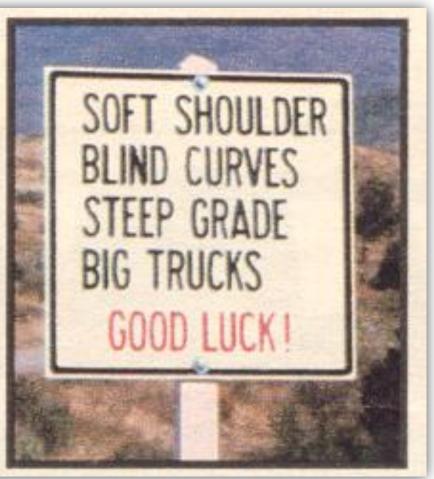






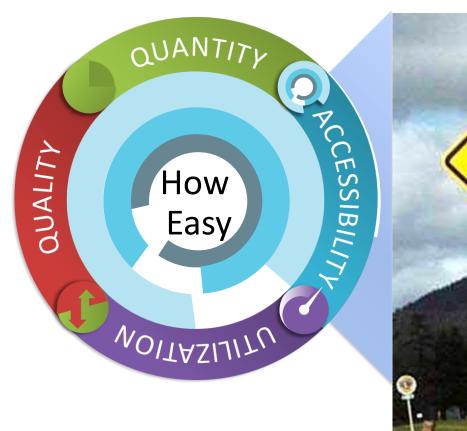
Quality







Accessibility







Capacity Utilization







Applicability to All Modes



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NOITAXIJI	MODE	QUANTITY	QUALITY	ACCESSIBILITY	UTILIZATION
	Auto/Truck Transit	Vehicle Miles Traveled	% Travel Meeting LOS Criteria % Miles Meeting LOS Criteria Travel Time Reliability Travel Time Variability Vehicle Hours of Delay		% Miles Severely Congested % Travel Severely Congested
PLE		Person Miles Traveled Passenger Miles Traveled	Person Hours of Delay Average Travel Speed		Hours Severely Congested Vehicles Per Lane Mile
PEOPLE	Pedestrian	Passenger Trips Passenger Trips	Average Headway Level of Service (LOS)	% Sidewalk Coverage	
	Bicycle		Level of Service (LOS)	% Bike Lane/Shoulder Coverage	
	Aviation	<u>Passengers</u>	Departure Reliability	Highway Adequacy (LOS)	Demand to Capacity Ratios
	Rail	<u>Passengers</u>	Departure Reliability		
	Seaports	<u>Passengers</u>		Highway Adequacy (LOS)	
FREIGHT	Truck	Combination Truck Miles Traveled Truck Miles Traveled Combination Truck Tonnage Combination Truck Ton Miles	Travel Time Reliability Travel Time Variability Combination Truck Hours of Delay Combination Truck Average Travel		% Miles Severely Congested Vehicles Per Lane Mile Combination Truck Backhaul
	Aviation	Traveled Tonnage	Speed	Highway Adequacy (LOS)	<u>Tonnage</u>
	Rail	<u>Tonnage</u>		Highway Adequacy (LOS) Active Rail Access	
	Seaports	Tonnage Twenty-Foot Equivalent Units		Highway Adequacy (LOS) Active Rail Access	



Matrix Freight Truck Measures

Quantity



Combination Truck Miles Traveled

Truck Miles Traveled

Combination Truck Tonnage

Combination Truck Ton Miles Traveled



Quality



Travel Time Reliability

Travel Time Variability

Combination Truck Hours of Delay

Combination Truck Average Travel Speed

Utilization



% Miles Severely Congested

Vehicles Per Lane Mile

Combination Truck Backhaul Tonnage



Matrix Freight Truck Measures

