

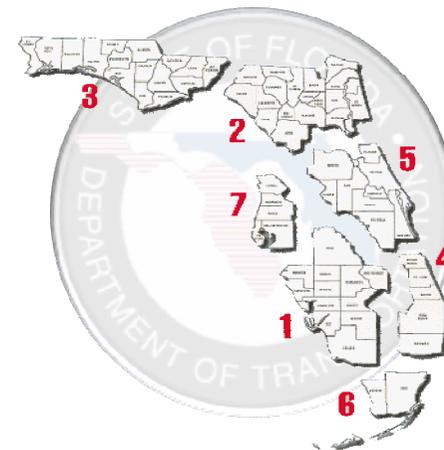


ISD Managers' Meeting

Mobility Performance Measures & MAP-21

Doug McLeod

January 24, 2013





Presentation Purposes

- Introduction to Mobility Performance Measures
- FDOT's Mobility Performance Measures Program
- Possible MAP-21 requirements





Introduction to Mobility Performance Measures





Importance of Mobility

“Providing **mobility** for people and goods is transportation’s most essential function.”





Desire for Performance Measures



Mobility performance measures

MAKE SENSE



Performance Measures



Measure and
evaluate what
matters

Let technical
work inform
policy choices

Are we making
progress
towards our
goals?



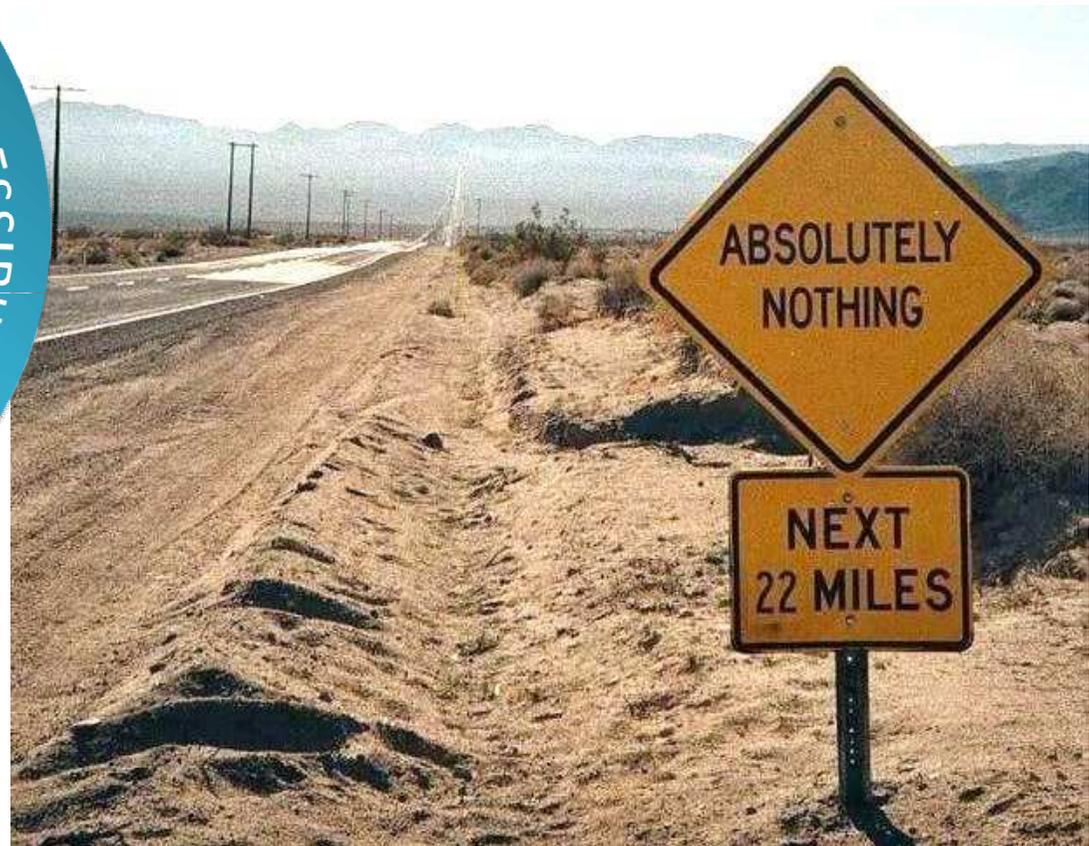
Dimensions of Mobility

- To adequately address mobility, **all four dimensions** should be emphasized and multiple performance measures used.



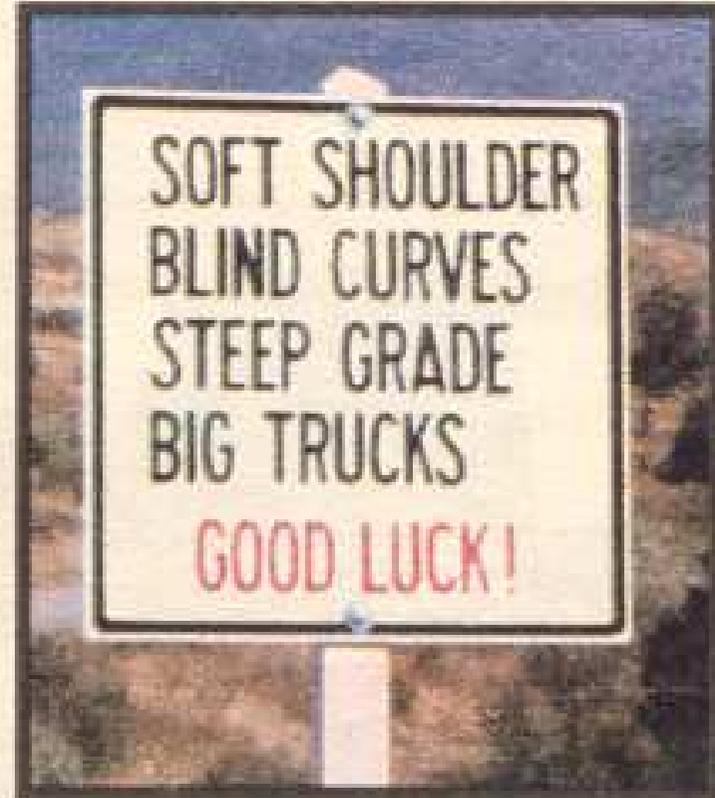
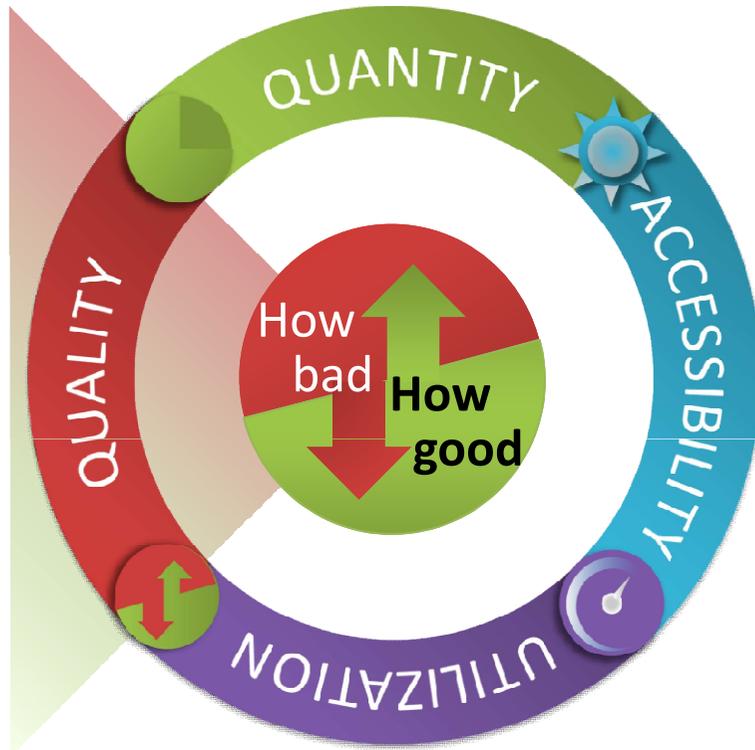


Quantity





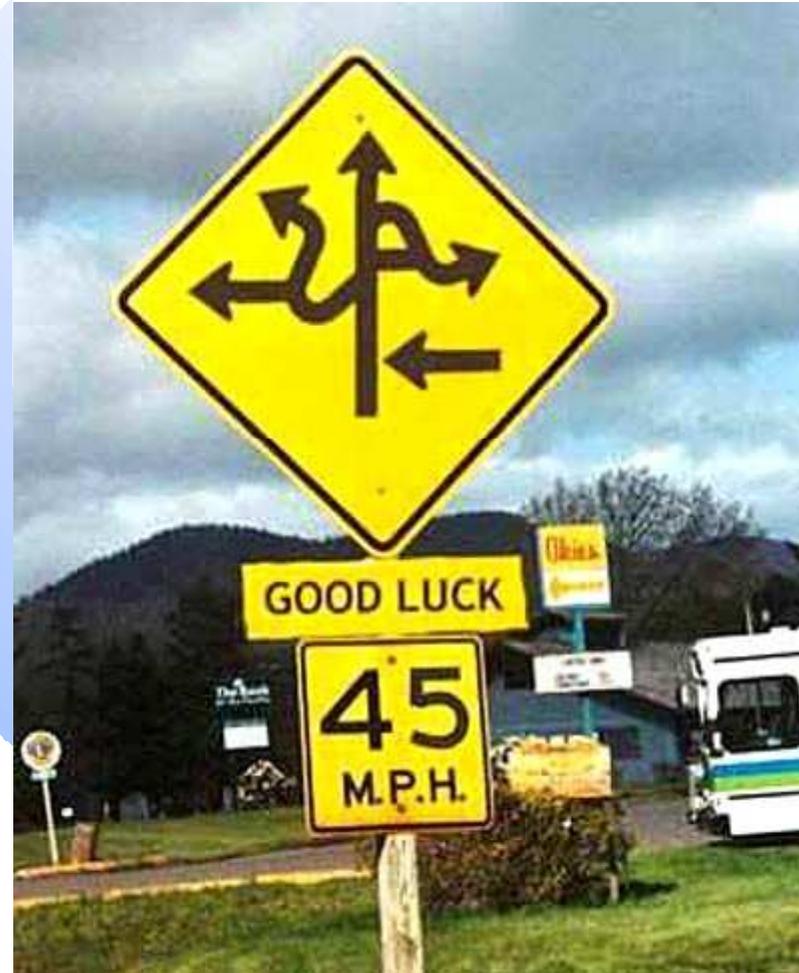
Quality



▲ Walter Youngquist of Eugene, Ore., saw this in central Oregon. He was lucky (or he turned around).



Accessibility





Capacity Utilization





Applicability to All Modes





Mobility Performance Measures in Relationship to Other Performance Measures

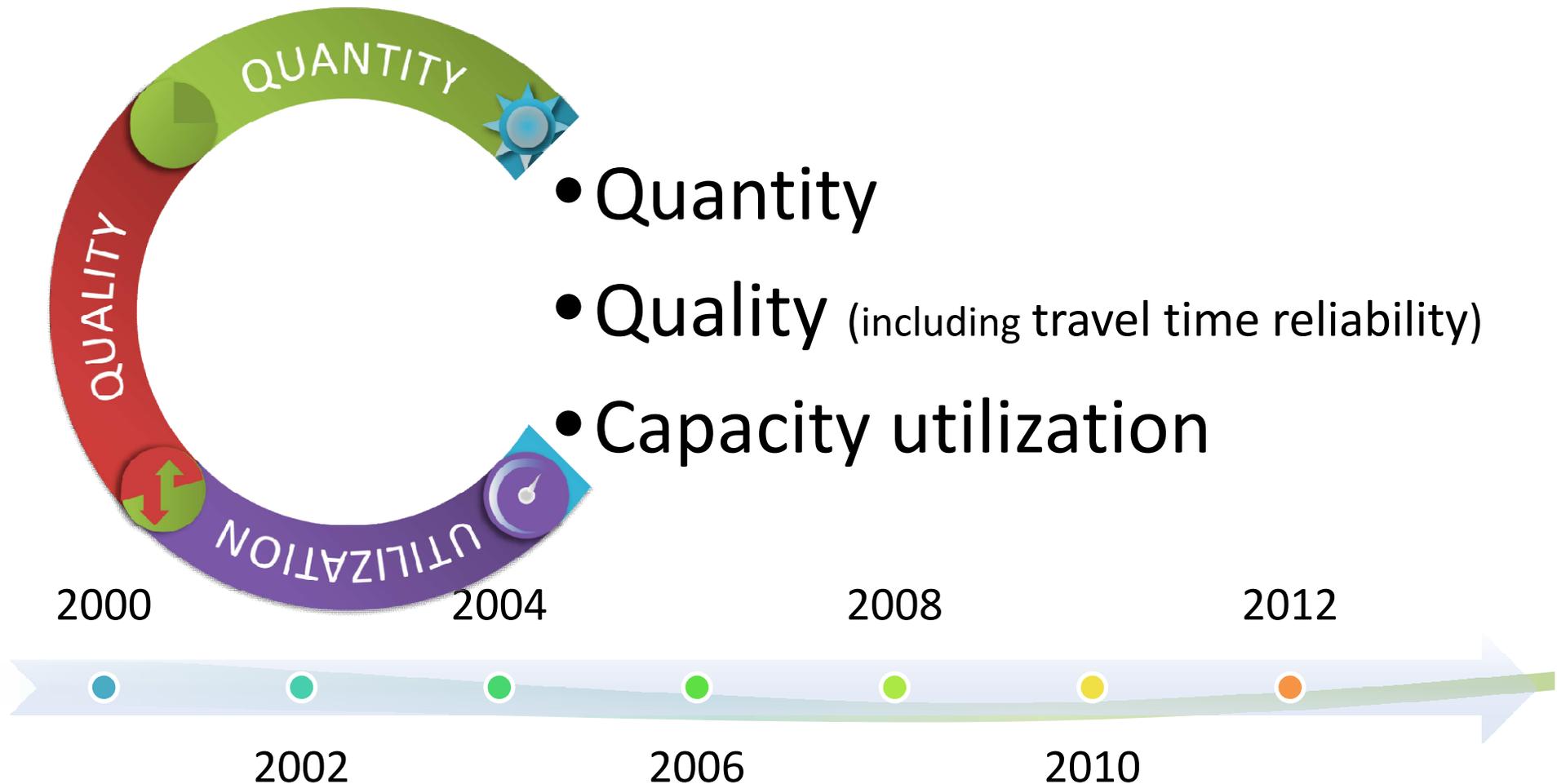
- Mobility measures do not address
 - Safety
 - Economic
 - Environmental
 - Asset (pavement, bridges)
 - Human resources
 - Production





FDOT Past Activities

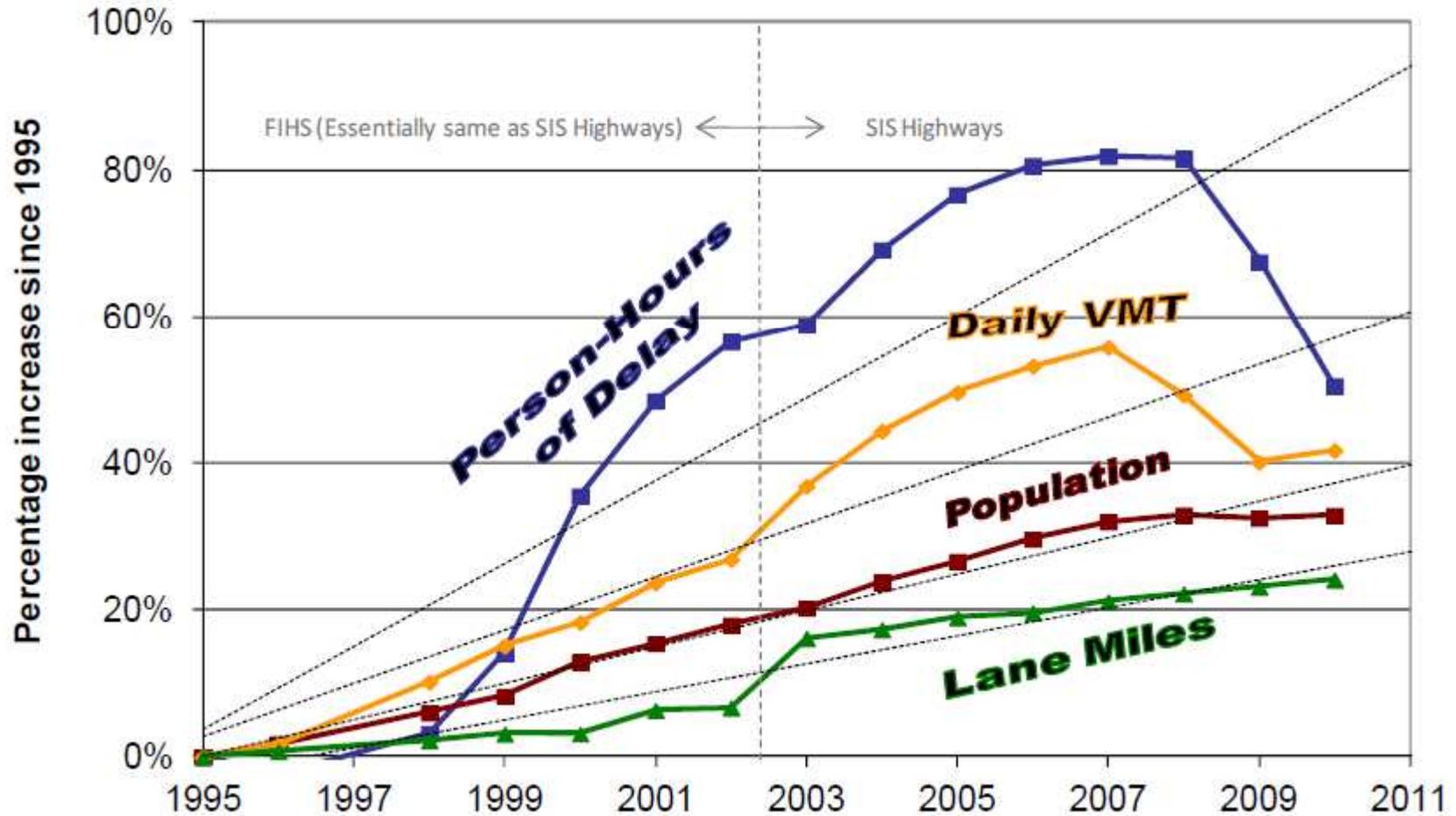
- C.O. TranStat Office has been tracking and reporting many highway performance mobility performance measures for 10+ years
- FDOT is considered a national leader





Use of Mobility Performance Measures

Trends in Mobility and Demand on SIS Highways





Recent Activities

Mobility performance measure reporting

- Travel time reliability
- Sidewalk coverage
- Bike lane/shoulder coverage

Management increased emphasis on performance measures

- My new position
- Freight
- New general consultant contract
- Coordination

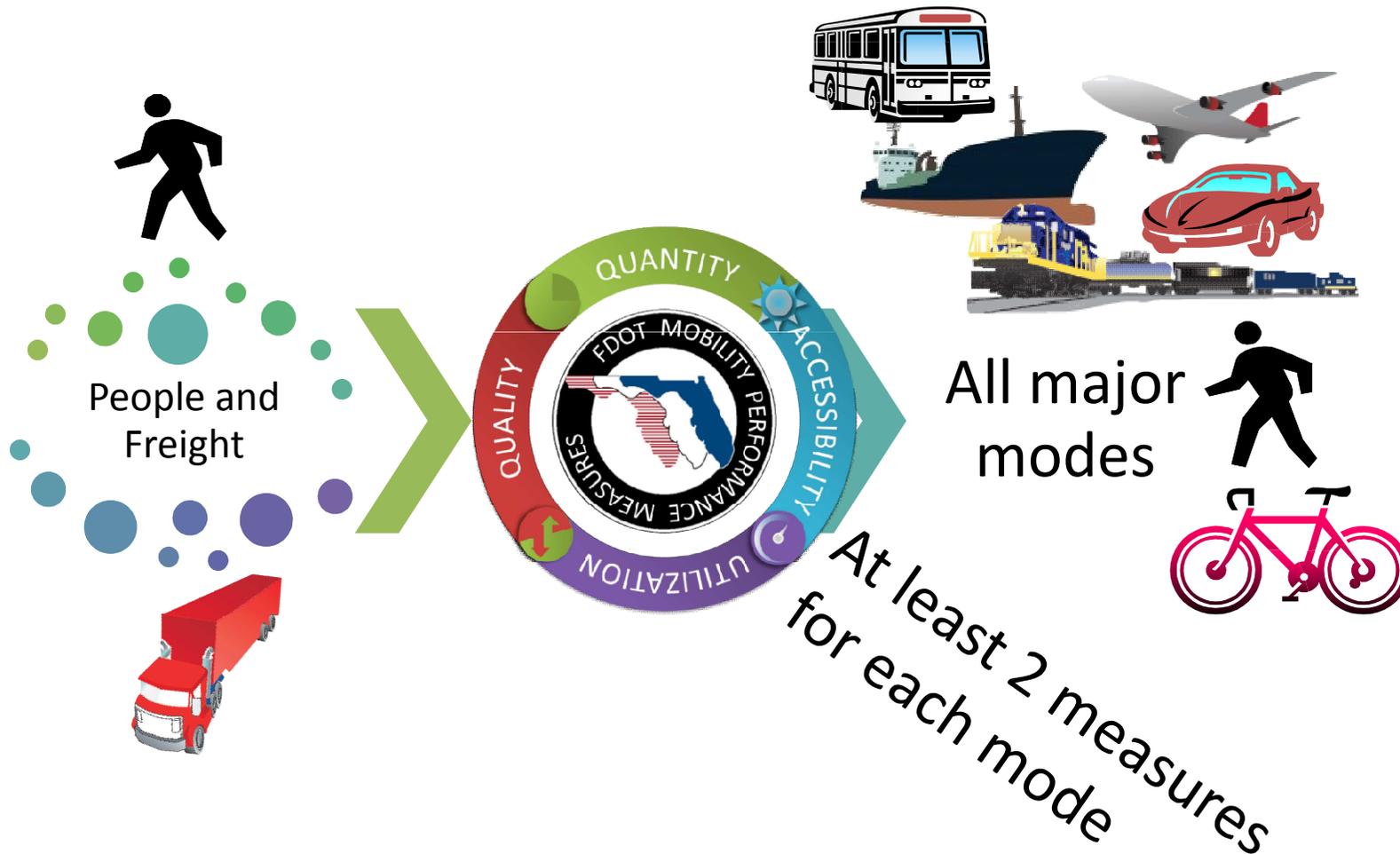


FDOT's Draft Statewide Mobility Performance Measures

	MODE	QUANTITY	QUALITY	ACCESSIBILITY	UTILIZATION
People	Highway	Vehicle miles traveled Person miles traveled	Average travel speed Delay Travel time reliability index % travel meeting LOS standards % miles meeting LOS standards	% population within 30 min of jobs	Vehicles per lane mile % miles heavily congested % travel heavily congested Hours heavily congested
	Aviation	Passengers	Departure reliability	Highway adequacy (LOS) % population within 30 min drive time	Demand to capacity ratios
	Rail	Passengers		% population < X time or distance	
	Seaport	Passengers		Highway adequacy (LOS)	
	Transit	Ridership Passenger miles	Average headway		
	Pedestrian		Level of Service (LOS)	Sidewalk coverage	
	Bicycle		Level of Service (LOS)	Bike lane/shoulder coverage	
Freight	Highway	Combination truck tonnage Combination truck ton miles traveled Combination truck miles traveled Truck miles traveled	Combination truck average travel speed Combination truck delay Travel time reliability index		Vehicles per lane mile % miles severely congested Combination truck Incoming/outgoing tonnage
	Aviation	Tonnage		Highway adequacy (LOS)	
	Rail	Tonnage		Highway adequacy (LOS) Quality rail access	
	Seaport	Tonnage Truck equivalent units		Highway adequacy (LOS)	



Features of Draft Statewide Mobility Performance Measures



For FDOT purposes, not MAP-21



MAP-21 Requirements

MAP-21

Moving Ahead for Progress in the 21st Century



MAP-21 National Goal Areas for the Federal Aid Highway Program



Safety

Infrastructure Condition

Congestion Reduction

System Reliability

Freight Movement and Economic Vitality

Environmental Sustainability

Reduced Project Delivery Delays



MAP-21 Timing



USDOT by 4/14, in consultation with State DOTs, MPOs, and other stakeholders, will promulgate rulemaking that establishes measures



Mobility Performance Measures

Provide not less than 90 days to comment on regulation



MAP-21 System Coverage

USDOT will establish measures for **States** to use to assess:



Condition of Pavements



Condition of Bridges



Performance of (mobility)

- Interstate System
- National Highway System



Performance Targets



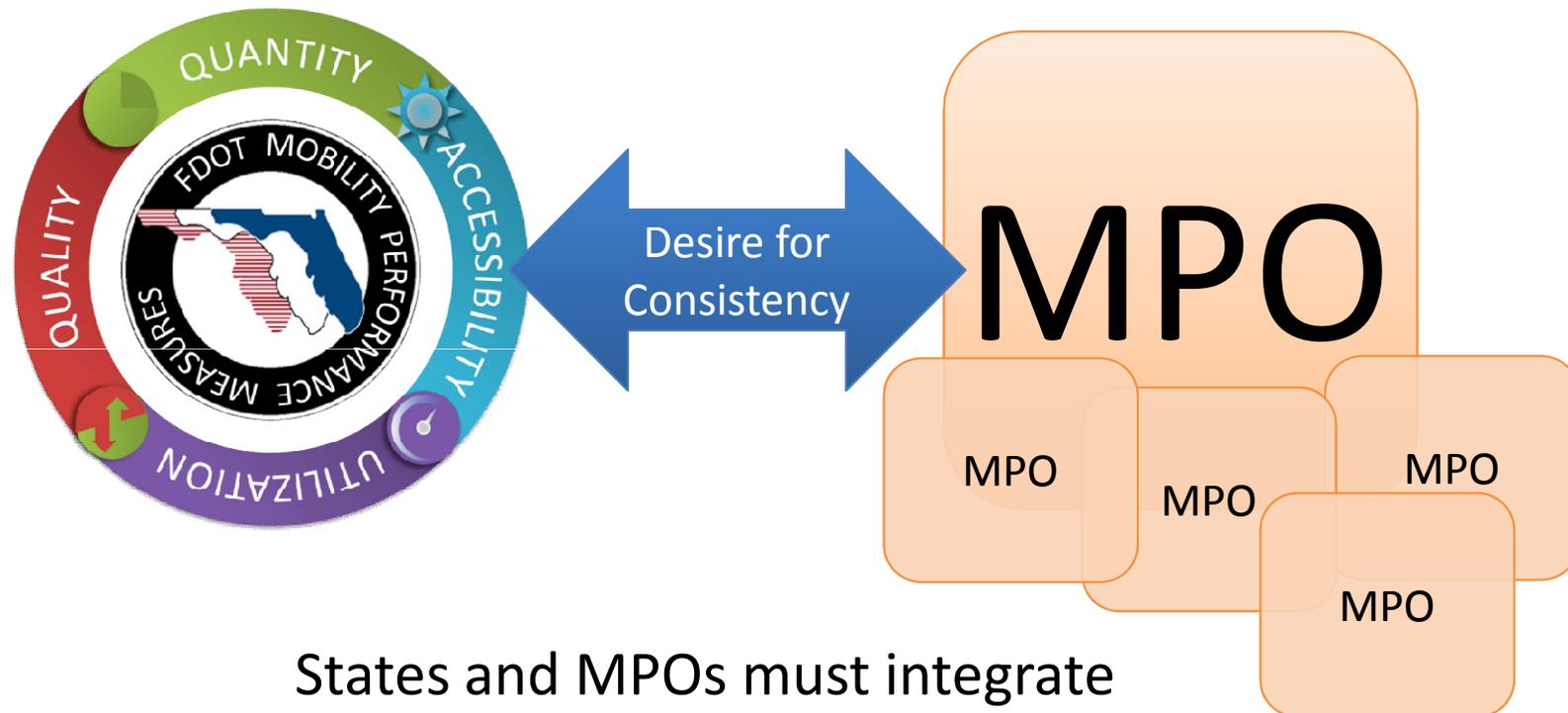
States will set targets for each measure established by USDOT no later than **1 year** after the final rule is promulgated for the measures



MPOs will set targets, where applicable for the same measures no later than 180 days after the State sets their target.



Performance Targets



States and MPOs must integrate performance plans into a performance-based process

Silent on MPOs not achieving targets



Performance Plans



Anticipated effect of the improvement program toward achieving the performance



Links investment priorities to performance targets



Performance Evaluation

USDOT will establish criteria to evaluate the effectiveness of the performance-based planning process of States



Progress towards the achievement of targets

Appropriateness of performance targets

Cost-effectiveness and efficiency of transportation investments

Extent to which process relies on public input

Ability of the public to access information



Performance Reporting

State Report on Performance Progress

- Required initially by October 1, 2016 and every 2 years thereafter
- Report includes:
 - Condition and performance of NHS
 - Effectiveness of investment strategy for the NHS
 - Progress in achieving all State performance targets
 - Ways in which congestion bottlenecks in National Freight Plan are being addressed

Statewide Transportation Plan

- No required frequency
- Optional report on system performance



Transit/Pedestrian/Bicycle Performance Measures

- Transit
 - Establish National, State and MPO Performance Measures for Transit
 - Safety
 - State of Good Repair (Asset Management)
 - States, MPO and transit operators will:
 - set targets for each measure,
 - incorporate in plans and programs,
 - and report progress
- Pedestrian/Bicycle
 - No requirements



Thoughts on MAP-21 Mobility Performance Measures

- Delay
- Travel time reliability
- Other?

Quantity?

Utilization?



AASHTO Recommendations for Mobility Related Performance Measures



- Congestion mitigation
(should apply only to non-attainment areas 1,000,000+ population)
- National Highway Performance Program
 - Delay
 - Travel time reliability
- Freight movement
 - Delay
 - Travel time reliability



Thoughts
on

MAP-21 FDOT's Addressing of Mobility Performance Measures

Relative little difficulty to calculate
and implement measures

Somewhat more difficult incorporating into
a performance based planning process

C.O. can take the lead on calculating and reporting
the mobility performance measures

- For possible use by Districts
- For possible use by MPOs



FDOT Action Items

for Addressing Mobility Performance Measures

Coordination

Within C.O. has begun

C.O. coordination with Districts is beginning

MPOs

- For general consistency of mobility performance measures?
- Should information be reported by District?
- Do we want/need a Task Team to address this topic?

- C.O. coordination with MPOAC on MAP-21 has begun (3/12, 1/13)
- District efforts



FDOT Action Items

for Addressing Mobility Performance Measures

Reassess our current:

- Calculation processes
- Performance reports
- Data needs
- Performance-based planning processes

Monitor MAP-21 requirements

Information dissemination

- Introductory video?
- One-page fact/information sheets
- Website
- Training?

Other?



Any Questions?

CONCLUDING STATEMENTS