



COMMONWEALTH of VIRGINIA
Office of the
SECRETARY of TRANSPORTATION

MPO Performance Measures

CTB Workshop
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Regional Performance Measures

- **Legislation**
- **Coordination with the MPOs**
- **Required Performance Measures**
- **MPOs' Performance Measures**
- **Next Steps**

Legislation

House Bill 2019: Chapter 670 and Senate Bill 1398: Chapter 690: Approved March 30, 2009

- *To develop quantifiable and achievable goals pursuant to § 33.1-23.03 and transportation and land use performance measures and prepare an annual performance report on state and regional efforts. The Office of Intermodal Planning and Investment shall work with applicable regional organizations to develop such goals.*

Legislation

Budget Bill Item 436:

○Beginning July 1, 2011, in providing the required match for federal Regional Surface Transportation Program funds made available to Metropolitan Planning Organizations in urbanized areas greater than 200,000, the board shall only make allocations to those Metropolitan Planning Organizations that, in consultation with the Office of Intermodal Planning and Investment, have developed regional transportation and land use performance measures pursuant to Chapters 670 and 690 of the 2009 Acts of Assembly and have been approved by the board.

Coordination with MPOs

OIPI conducted the following activities to engage the MPOs:

- Identified those required to participate (Hampton Roads, Northern Virginia, Fredericksburg, Tri-Cities and Richmond) and also reached out to those on the cusp of the requirement (Roanoke)
- Provided a comprehensive matrix of performance measures based on statewide goals, identified those that are required under the statutes, and identified any existing regional data from the statewide Performance Report
- Reviewed the potential list of performance measures with the MPOs via webcast meeting and incorporated their ideas on performance measures and data sources
- Developed draft guidance report and incorporated substantial comments from the MPOs

Coordination with MPOs (cont.)

- Finalized OIPI guidance document on performance measures and deadlines in January, 2011
- OIPI is continuing to coordinate with the 6 MPOs on their adoption of performance measures:
 - NOVA and Fredericksburg – adopted exactly the recommended measures
 - Hampton Roads – adopted measures with minor variations in some measures and some additions
 - Richmond Regional and Tri-Cities (Petersburg) – adopted measures with some additions and omissions (such as HOV, which is not present in the region, and some air quality measures)
 - Roanoke – participated in coordination but is not yet legally required to adopt measures

Required Performance Measures

The Legislation specifically requires that quantifiable performance measures address the following elements related to the transportation infrastructure of the Commonwealth:

- Congestion reduction
- Safety
- High-Occupancy Vehicle Usage
- Transit Usage
- Jobs-to-Housing ratios
- Job and housing access to transit and pedestrian facilities
- Air Quality
- Freight movement by rail
- Per capita Vehicle Miles Traveled (VMT)

Required Performance Measures

- **Much of the data for required performance measures is available at the regional level and already collected for the statewide Performance Report**
- **OIPI and MPOs discussed gaps:**
 - **Access to transit and pedestrian facilities**
 - **Percentage of freight moved by rail**
- **MPOs suggested additional ways to address the required measures using data available to the MPOs such as information included in regional travel demand models**
- **Ideas were shared across MPOs to encourage consistency and completeness in the individual MPOs' adopted measures**

Performance Measure Matrix

Recommended Performance Measures	Richmond Regional	Tri-Cities	HRTPO	FAMPO	NOVA
Congestion Reduction					
Annual Hours of Delay per Peak Period Traveler	X	X	X	X	X
Annual Gallons of Fuel Lost Due to Congestion per Peak Period Traveler	X	X	X	X	X
Safety					
Number of Highway Fatalities and Fatality Rate per 100 million VMT	X	X	X	X	X
Number of Highway Crashes and Crash Rate per 100 million VMT	X	X	X	X	X
Number of Transit Crashes and Fatalities	X	X	X	X	X
Annual Transit Crashes per 100 million PMT	X	X	X	X	X
Annual Transit Injuries per 100 million PMT			X	X	X
Annual Transit Fatalities per 100 million PMT	X	X	X	X	X
Number of Aviation Crashes and Fatalities			X	X	X
Annual Aviation Crashes			X	X	X
Annual Aviation Fatalities			X	X	X

Performance Measure Matrix					
Recommended Performance Measures	Richmond Regional	Tri-Cities	HRTPO	FAMPO	NOVA
Transit Usage					
# of Transit Trips Per Capita	X	X	X	X	X
Annual Transit Revenue Miles per Capita	X	X	X	X	X
# of Annual Transit Revenue Miles	X	X	X	X	X
Annual Transit Passenger Miles Traveled per Capita	X	X	X	X	X
HOV Usage					
Number of Persons per Hour per HOV Lane During Peak Period			X	X	X
# of Park and Ride Lots and Spaces	X		X	X	X
Number of Occupied Park and Ride Spaces per 100,000 population			X	X	X

Performance Measure Matrix					
Recommended Performance Measures	Richmond Regional	Tri-Cities	HRTPO	FAMPO	NOVA
Jobs-to-Housing Ratio					
Ratio of jobs to households at the regional & county levels	X	X		X	X
Regional Linear Jobs-Households Dissimilarity index (0.0 to1.0)	X	X	X	X	X
Ratio of jobs to work force			X	X	X
Inter and Intra regional commuting data	X	X	X	X	X
Mean Travel Time to Work			X	X	X
Job and Housing Access to Transit					
% of households in TAZs served by transit	X	X	X	X	X
% of employment in TAZs served by transit	X	X	X	X	X
Job and Housing Access to Pedestrian Facilities					
% of Housing Units Living in TAZ's/Census Block with 1%+ walk-to-work mode share			X	X	X

Performance Measure Matrix					
Recommended Performance Measures	Richmond Regional	Tri-Cities	HRTPO	FAMPO	NOVA
Air Quality					
Annual # of Days when Ozone Levels were Above 8-Hour Standard	X	X	X	X	X
Greenhouse Gas Emissions produced by the transportation sector in Virginia #				X	X
Grams of CO2 (greenhouse gas from motor vehicles) per capita per day, near future #			X	X	X
Volatile Organic Compounds (VOC) and Nitrogen Oxides (NOx) emitted into the air from highway vehicles			X	X	X
Grams of VOC per capita per day and NOx per capita per day, near future			X	X	X
Movement of Freight					
% of Freight Transported by Rail or Barge			X	X	X
Truck & Rail Mode Share, by value	X	X	X	X	X
Truck & Rail Mode Share, by tons	X	X	X	X	X
Daily Vehicle Miles Traveled per Capita					
Vehicle Miles Traveled Per Capita	X	X	X	X	X

Additional Measures or Replacement Measures included by the MPOs

Richmond Regional and Tri-Cities

- **Safety** – separated some of the measures into individual measures and added **bicycle/pedestrian crashes & deaths**
- **Transit Usage** – added **annual passenger rail ridership (Amtrak)**
- **HOV Usage** – added **number of registered vanpools**
- **Jobs/Housing Access to Pedestrian Facilities** – replaced recommended measure with **number and percent of residents who walk to work**

Additional Measures or Replacement Measures included by the MPOs

Hampton Roads TPO

- **Congestion Reduction** – added peak period travel time tax
- **Safety** – added roadway crashes and highway-rail crossing accidents
- **Transit Usage** – added passengers boarding or departing Amtrak
- **HOV Usage** – added percent of commuters using carpool as travel mode to work
- **Jobs-to-Housing Ratio** – Replaced households with workforce in recommended measures
- **Movement of Freight** – Customized the measures to the Hampton Roads freight origins and destinations
- **Daily Vehicle Miles Traveled per Capita** – added percent of workers using alternative modes of travel to work
- **Overall additions** – added maintenance and financial performance measures

Next Steps

- **CTB resolution to approve MPO Performance Measures – June 15, 2011**