



COMMONWEALTH of VIRGINIA
Office of the
SECRETARY of TRANSPORTATION

Transportation Performance Management Measures and Target Setting

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Background

- National movement towards performance based planning and programming
 - SMART SCALE
 - VTrans
- MAP-21 federal law requires states and MPOs to establish performance targets for (i) safety, (ii) asset condition, (iii) system performance and (iv) air quality
 - Rules were finalized in mid- and late-2016
- HB2241/SB1331 (2017) requires Board, with the support of Office of Intermodal Planning and Investment, to establish performance targets for surface transportation

Background

- In December 2015 Board adopted performance objectives with the VTrans goals, objectives and guiding principles
- Initial Surface Transportation Performance Report presented to Board July 2017
- Significant overlap and some differences between adopted VTrans objectives and federal measures
- Virginia must set targets for federal measures by May 2018

How it all fits together



- Performance measures and targets inform VTrans decisions
- VTrans decisions establish goals, objectives and needs
- Goal, objectives and needs inform policy changes and project selection
- Policies and project selection affect system performance

Performance Management Measures and Targets

- **Integrate VTrans & Federal measures and reporting**
 - Overlaps and differences amongst the established VTrans measures and the new federal required performance measures
 - Staff recommends a coordinated and “unified” approach for performance measures and reporting
 - Federal measures have very specific and detailed requirements for reporting

Proposed approach to unify measures

- **Economic Competitiveness and Prosperity**
 - Percent of peak-hour VMT in severe congestion
 - Annual hours of peak-hour excessive delay*
 - Percent of reliable person-miles traveled on Interstates*
 - Percent of reliable person-miles traveled on NHS*
 - Percent of Interstate mileage providing reliable truck travel times*
 - Rail and transit on-time performance

* Federal measure

Proposed approach to unify measures

- **Accessible and Connected Places**
 - Average commute time by metro area
 - Average number of jobs accessible within each metro area by mode
 - Percent of travel not in single-occupant vehicles*

* Federal measure

Proposed approach to unify measures

- **Safety for All Users**
 - **Number of fatalities***
 - **Number of severe injuries***
 - **Rate of fatalities per 100M vehicle miles traveled***
 - **Rate of severe injuries per 100M vehicle miles traveled***
 - **Number of non-motorized fatalities and severe injuries***

* Federal measure

Proposed approach to unify measures

- **Proactive System Management**
 - **Percent of pavement on Interstate in good condition***
 - **Percent of pavement on Interstate in poor condition***
 - **Percent of pavement on NHS in good condition***
 - **Percent of pavement on NHS in poor condition***
 - **Percent of NHS bridge deck area in good condition***
 - **Percent of NHS bridge deck area in poor condition***
 - **Need to develop metrics to cover entire system including non-NHS pavements**

* Federal measure

Proposed approach to unify measures

- **Healthy Communities and Sustainable Transportation**
 - **Per capita vehicle miles traveled**
 - **Annual emissions of NOX, VOC, PM and CO2**
 - **Non-work accessibility by metro area**
 - **Reduction in criteria pollutants in non-attainment or maintenance areas funded with CMAQ funds***
 - **Reduction in greenhouse gas emissions***

* Federal measure

Performance Measures and Targets – Next Steps

January 2018

- Assemble/compile data consistent with Federal measures
- Provide baseline data for performance measures
- Present bridge and pavement data and related measures

February – March 2018

- Continued analysis of remaining measures
- Present methodology and proposed targets for remaining measures

April 2018

- Final CTB review of targets

May 2018

- Adopted targets and submit to USDOT and publish revised Performance Report