



COMMONWEALTH of VIRGINIA  
Office of the  
SECRETARY of TRANSPORTATION

# Transportation Performance Management Measures and Target Setting

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# Background

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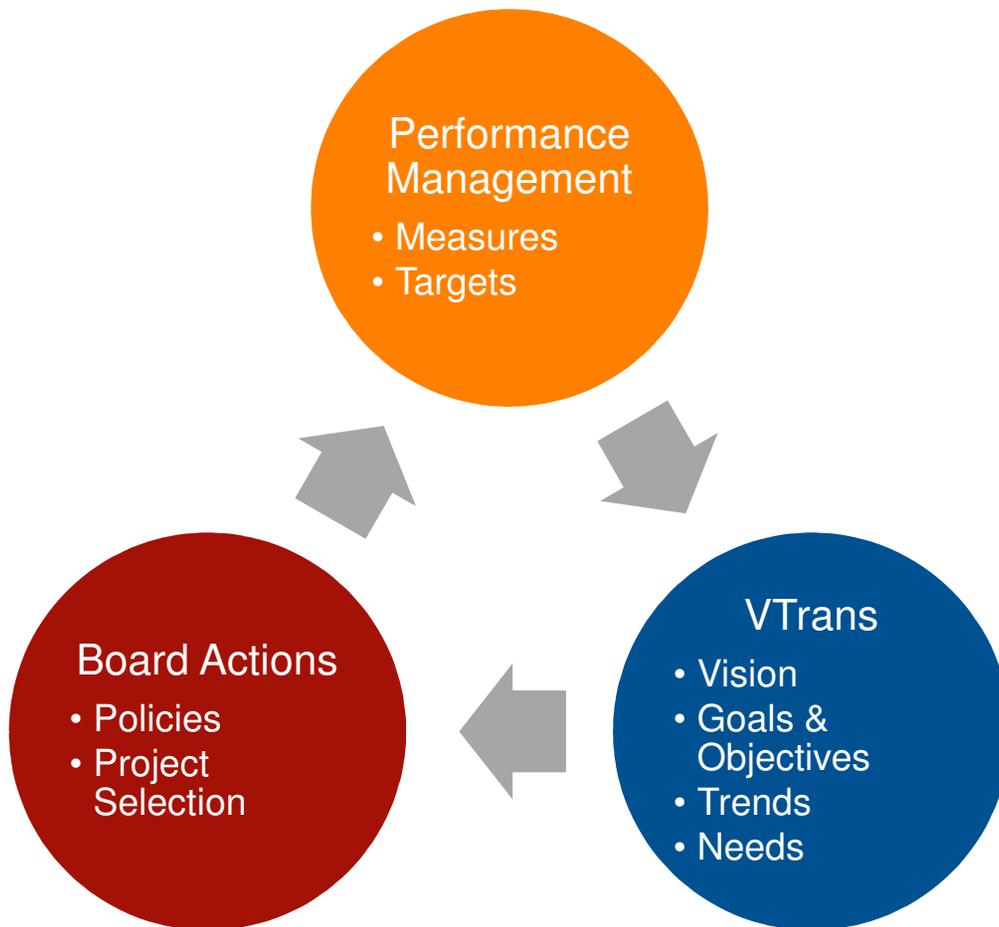
- National movement towards performance based planning and programming
  - SMART SCALE
  - VTrans
- MAP-21 federal law requires states and MPOs to establish performance targets for (i) safety, (ii) asset condition, (iii) system performance and (iv) air quality
  - Rules were finalized in mid- and late-2016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

# Background

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- 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

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- **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

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- **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

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- **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

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- **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

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- **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

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- **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

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## 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