COMMONWEALTH *of* VIRGINIA

Office of the

SECRETARY *of* TRANSPORTATION

VTrans Performance Targets

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Measuring Performance

- Traditional DOT performance analyzes current conditions
- Limited state DOT work to set targets for future performance and track progress
- National emphasis on performance-based planning
- Now required by state code and federal legislation

Measuring Performance in Virginia

- Establish key objectives that will be measured
- Establish baseline conditions
- Evaluate recent trends
- Establish process for setting targets and measuring progress
  - Staff undertaking research on national best practices and will develop concepts for Board review

VTrans Performance

- **Board adopted VTrans2040 goals, objectives and guiding Principles in December 2015**
- **Office of Intermodal Planning and Investment developing initial Annual Performance Report**
  - **Establish baseline conditions and recent trends**
  - **Outline key actions to advance guiding principles**
- **Future reports will evaluate progress towards targets**

VTrans Performance Targets

Concepts under discussion

- Impact of VMTP 2025 Tier I Recommendations
- Impact of Board policies
  - Access management
  - Urban Development Area planning grants
- Process for identifying additional Board policies to advance progress toward performance targets

VTrans Guiding Principles

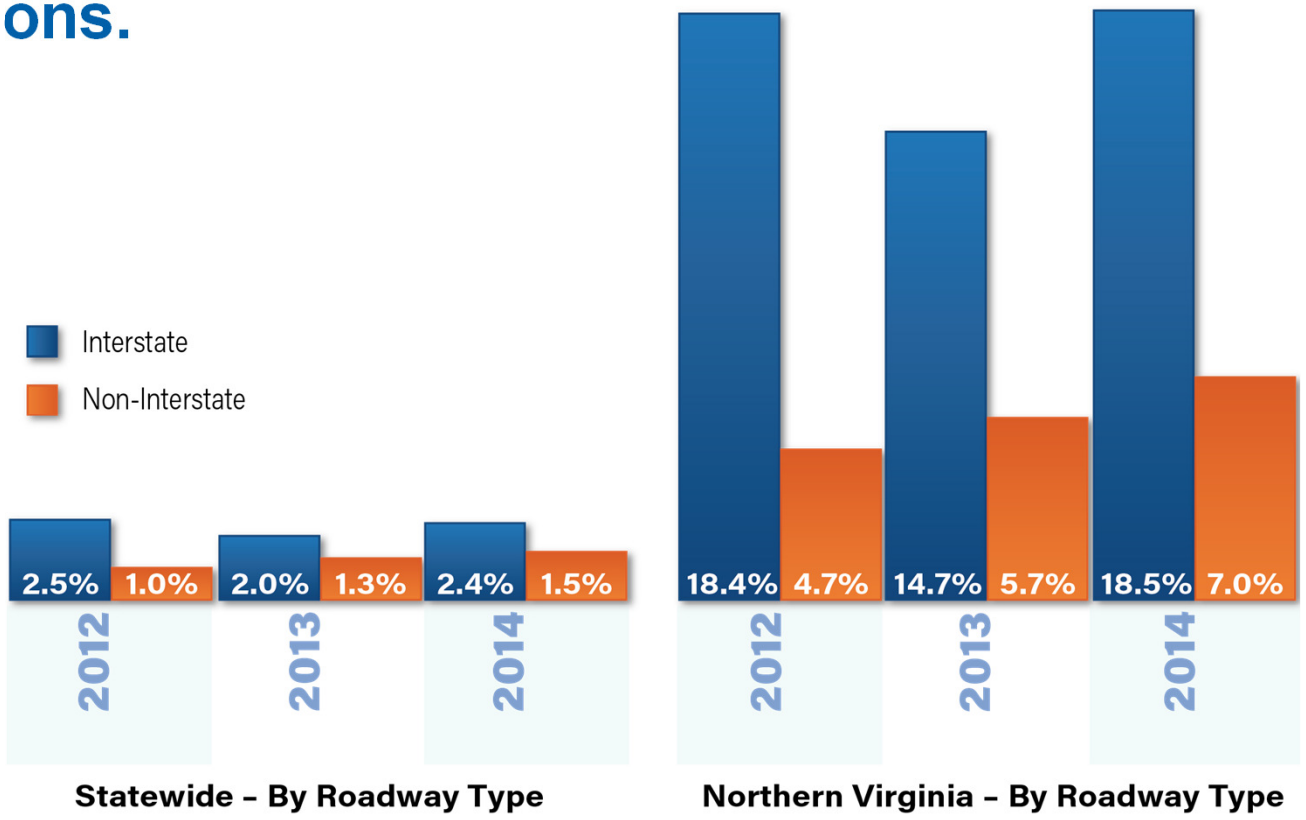
- Optimize return on investments
- Ensure safety, security and resiliency
- Efficiently deliver programs
- Consider operations improvements and demand management first
- Ensure transparency and accountability, and promote performance management
- Improve coordination between transportation and land use
- Ensure efficient intermodal connections

VTrans2040 GOAL: ECONOMIC COMPETITIVENESS and PROSPERITY

- **Objectives:**
  - **A.1: Reduce the amount of travel that takes place in severe congestion**
    - Percent peak hour VMT occurring in congested conditions.
  - **A.2: Reduce the number and severity of freight bottlenecks**
    - Number of highway bottlenecks with daily freight ton hours of delay per mile > 250,000.
  - **A. 3: Improve reliability on key corridors for all modes**
    - Roadway Buffer Time Index (BTI).
    - Rail/Transit On-Time Performance (OTP).

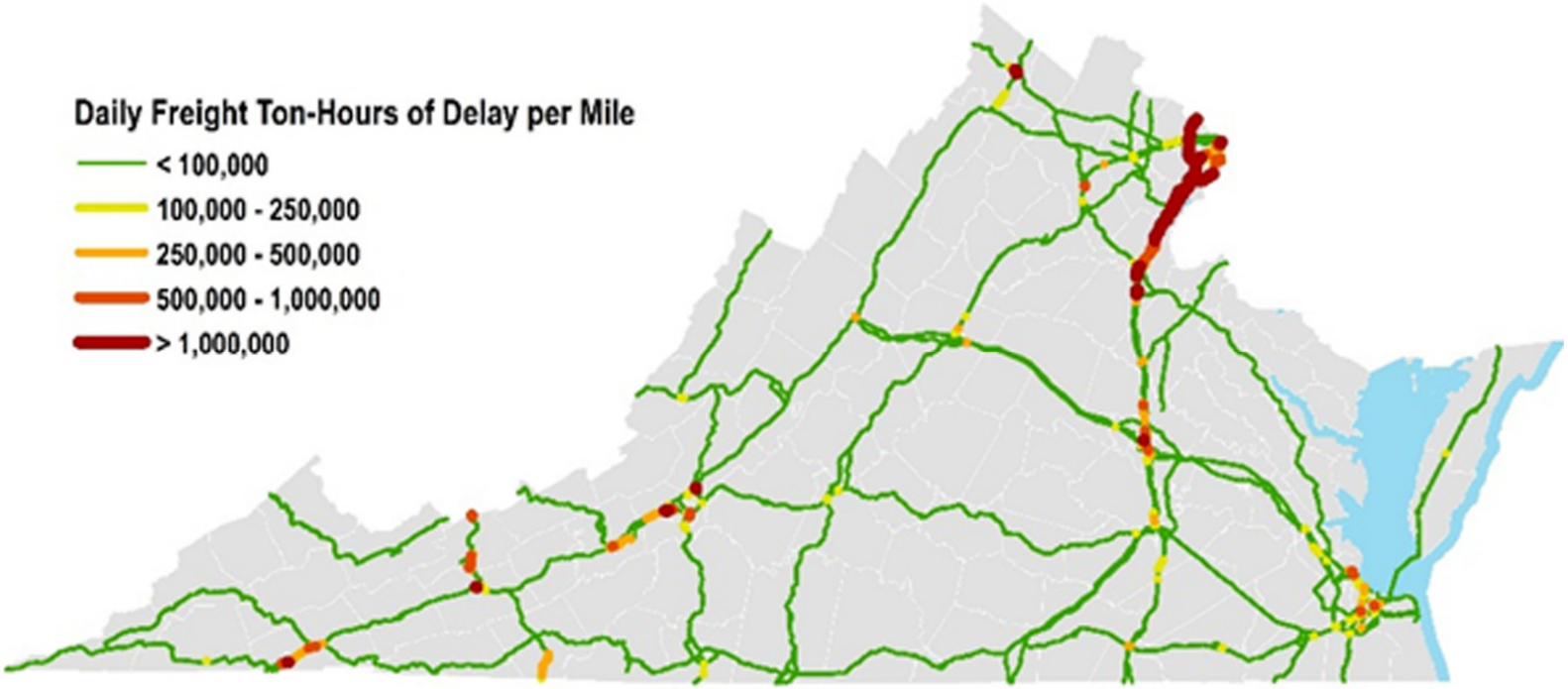
Example: A.1: Reduce the amount of travel that takes place in severe congestion

Percent peak hour VMT occurring in congested conditions.



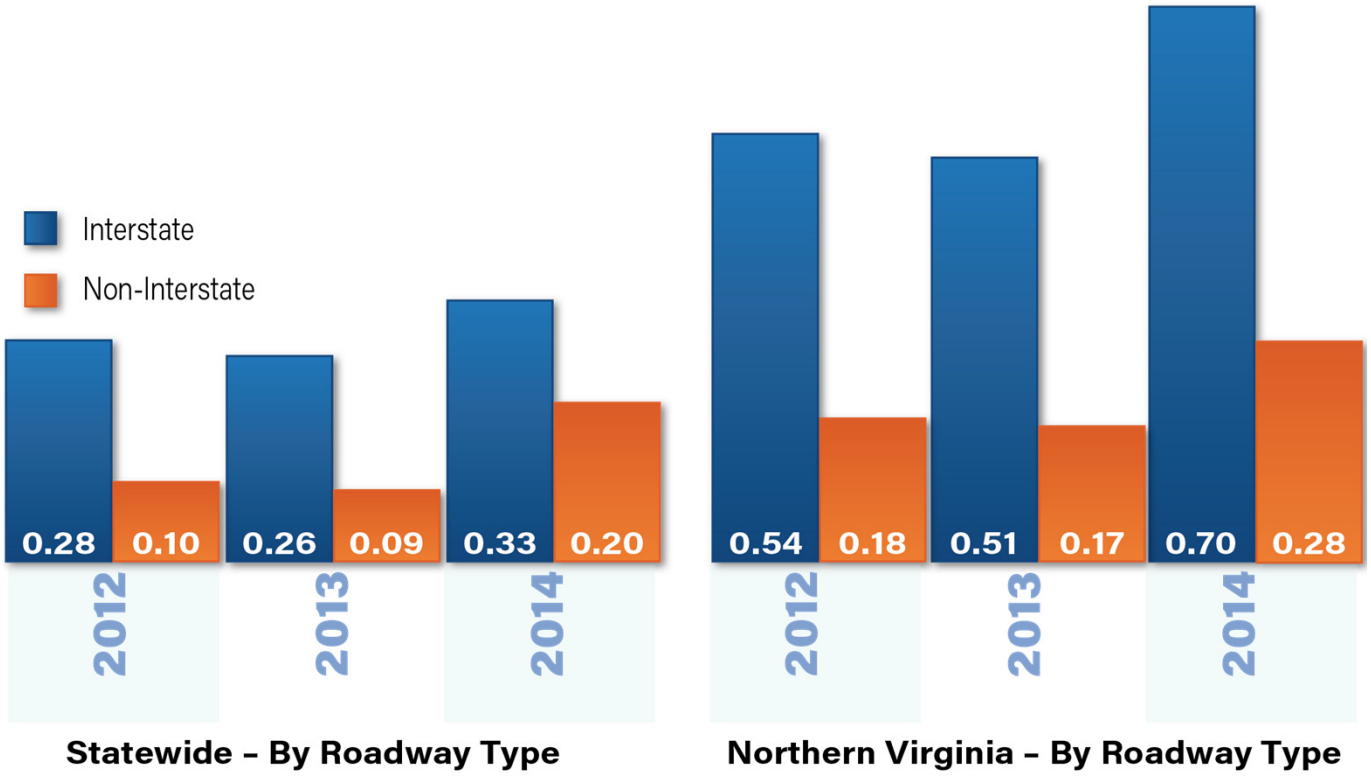
Example: A.2: Reduce the number and severity of freight bottlenecks

Number of highway bottlenecks with daily freight ton hours of delay per mile > 250,000.



Example: A. 3: Improve reliability on key corridors for all modes

Roadway Buffer Time Index (BTI).

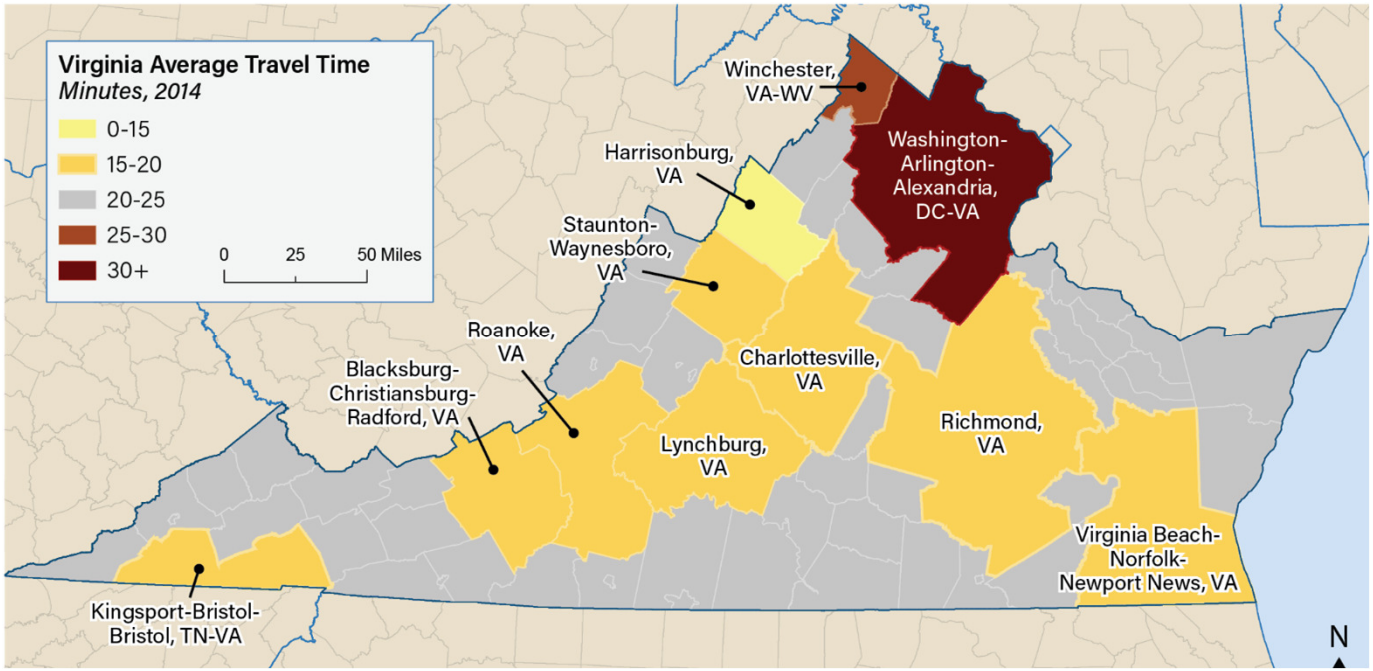


VTrans2040 GOAL: ACCESSIBLE and CONNECTED PLACES

- **Objectives:**
  - **B.1: Reduce average peak-period travel times in metropolitan areas**
    - Average commute time by metropolitan area.
  - **B.2: Reduce average daily trip lengths in metropolitan areas**
    - Average trip length by metropolitan area.
  - **B.3: Increase the accessibility to jobs via transit, walking and driving in metropolitan areas**
    - Number of jobs within 45 minutes of an average household within a metropolitan area by mode.

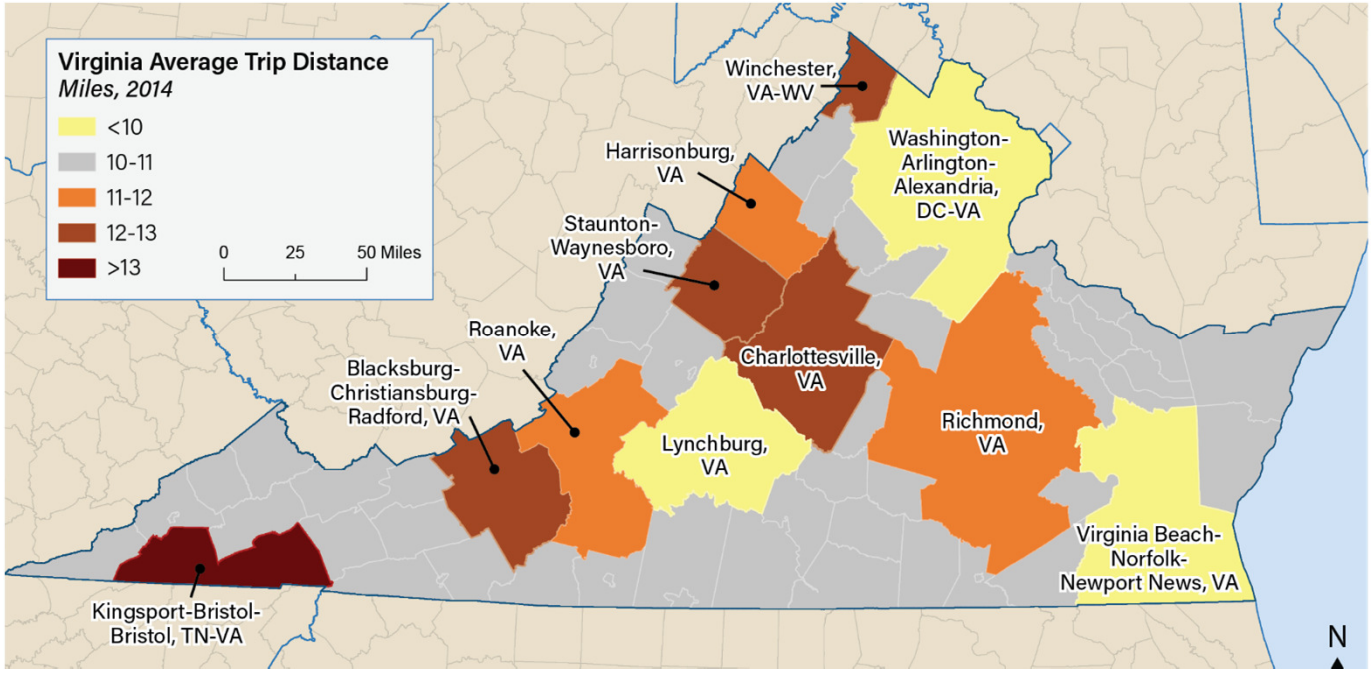
Example: B.1: Reduce average peak-period travel times in metropolitan areas

Average commute time by metropolitan area.



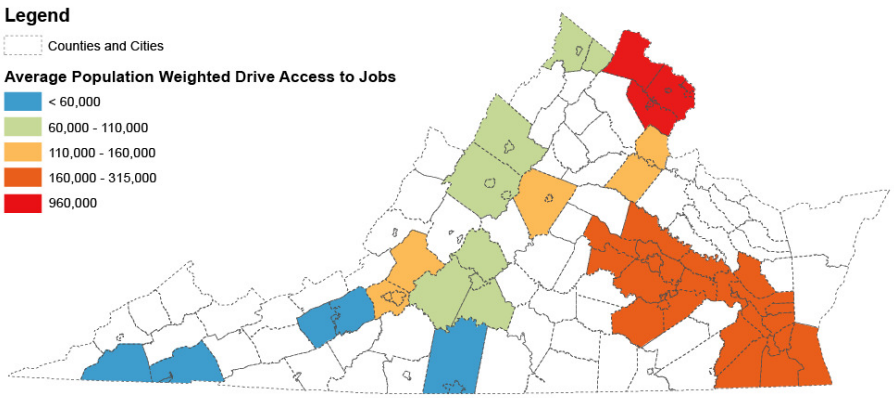
Example: B.2: Reduce average daily trip lengths in metropolitan areas

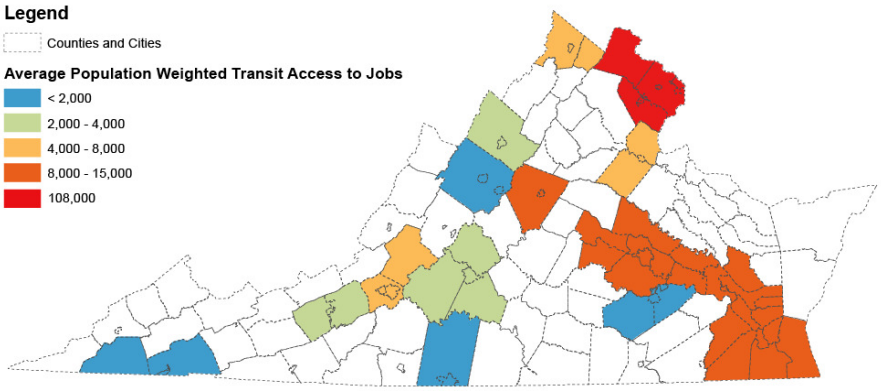
Average trip length by metropolitan area.

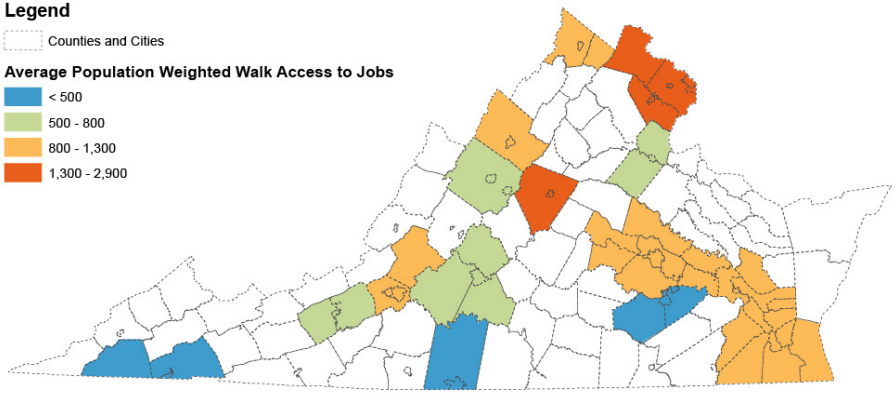


Example: B.3: Increase the accessibility to jobs via transit, walking and driving in metropolitan areas

Number of jobs within 45 minutes of an average household within a metropolitan area by mode.





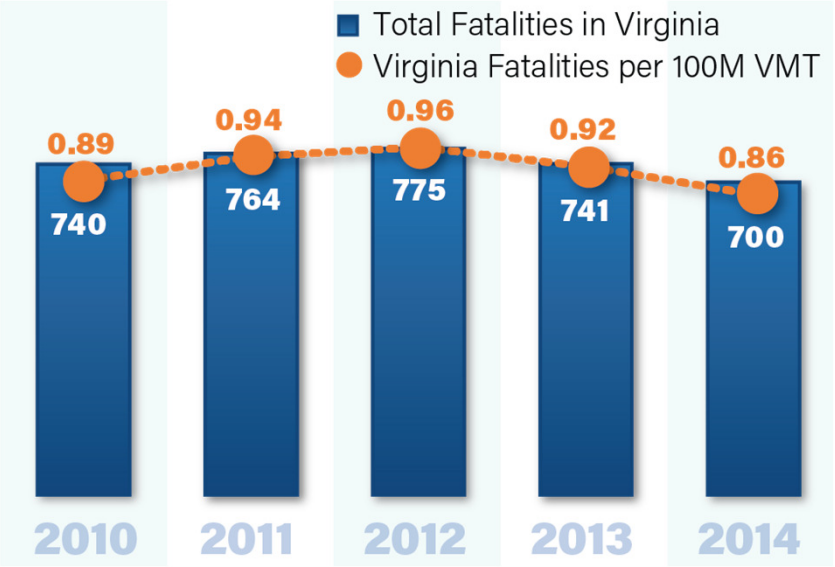


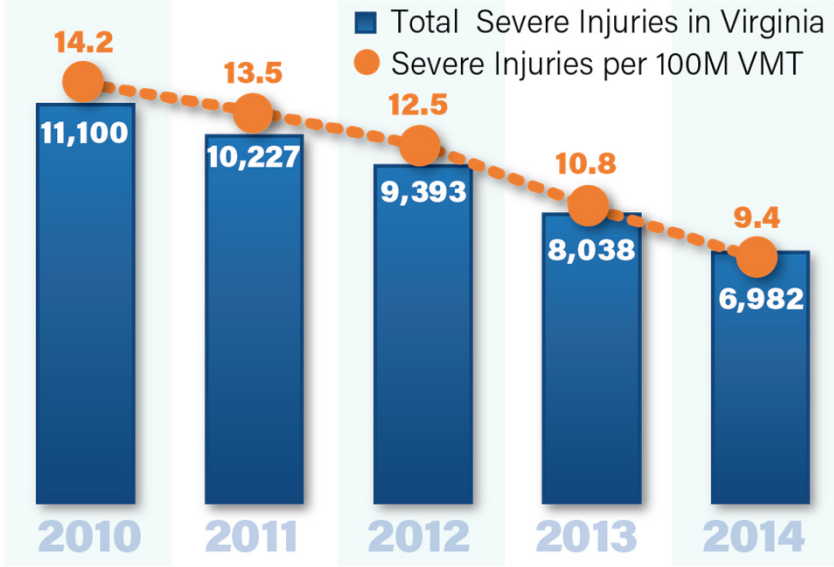
VTrans2040 GOAL: SAFETY FOR ALL USERS

- **Objectives:**
  - **C.1: Reduce the number and rate of motorized fatalities and severe injuries**
    - Total number of motorized fatalities and severe injuries
  - **C.2: Reduce the number of non-motorized fatalities and severe injuries**
    - Number of motorized fatalities and severe injuries per 100 million vehicle miles.
    - Total non-motorized fatalities and severe injuries.

Example: C.1: Reduce the number and rate of motorized fatalities and severe injuries

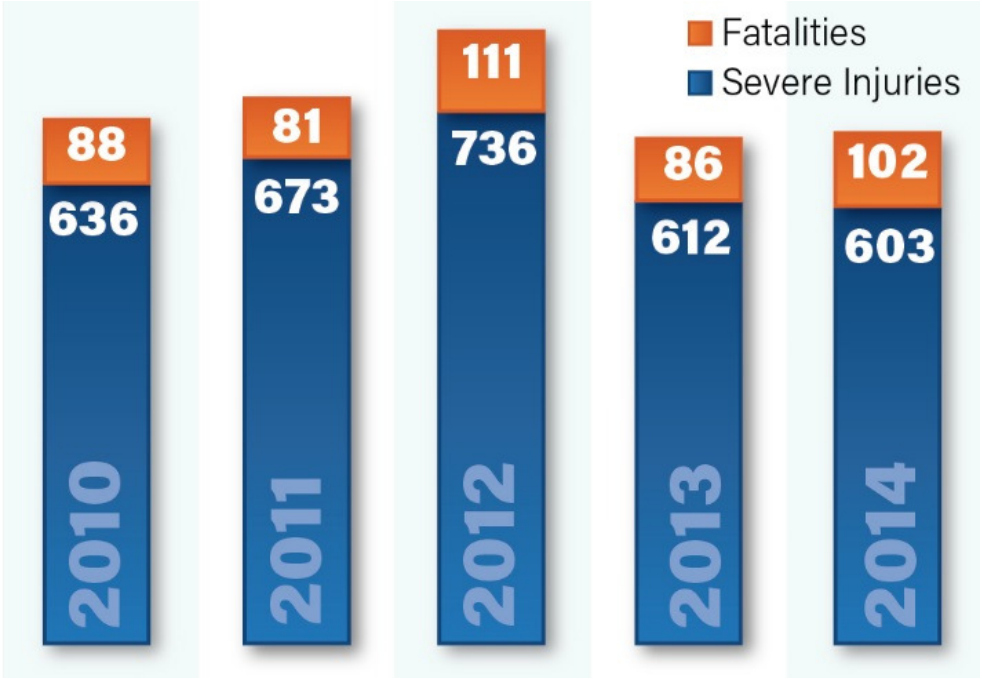
Total number of motorized fatalities and severe injuries





Example: C.1: Reduce the number and rate of non-motorized fatalities and severe injuries

Total number of non-motorized fatalities and severe injuries

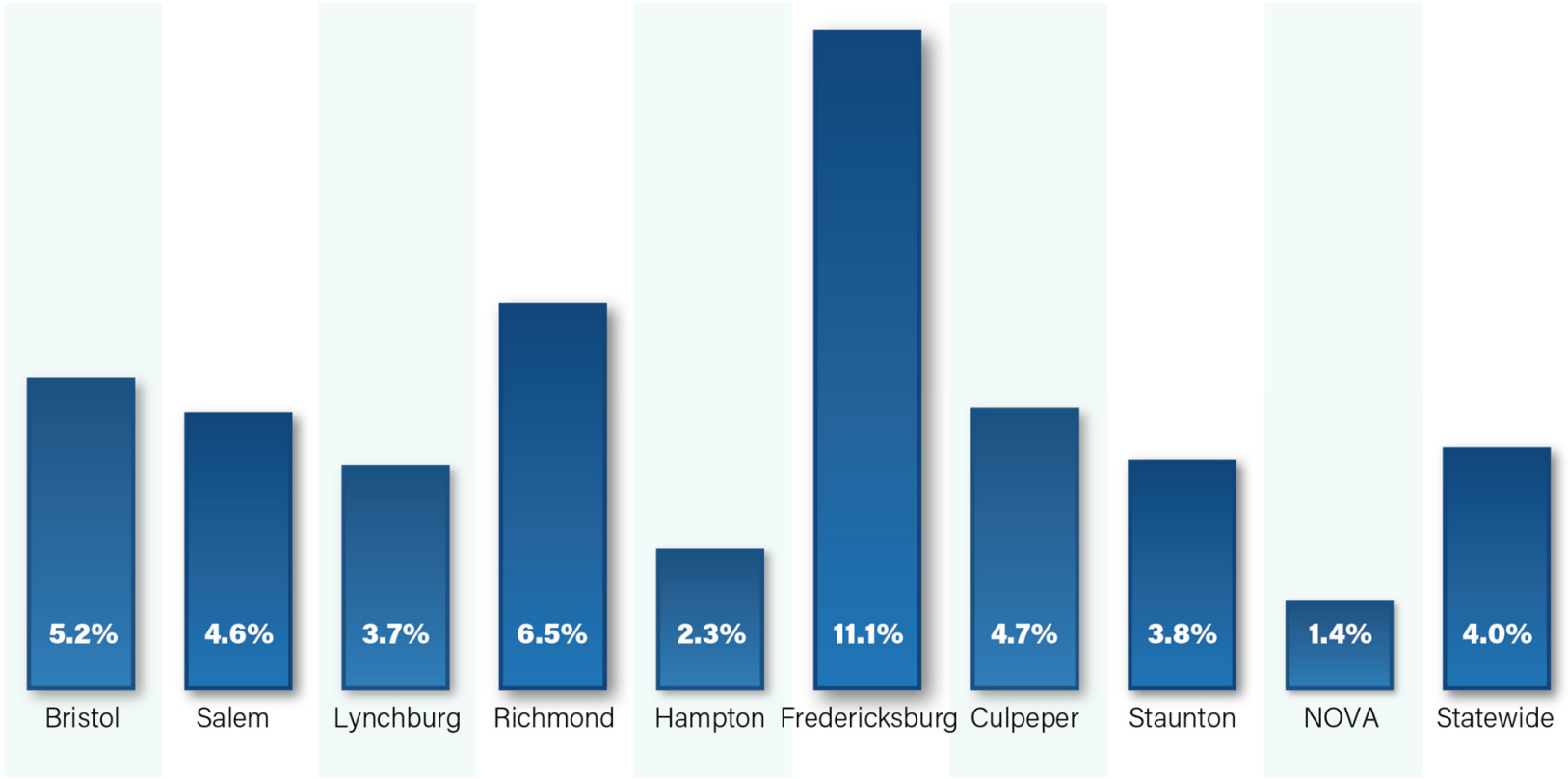


VTrans2040 GOAL: PROACTIVE SYSTEM MANAGEMENT

- **Objectives:**
  - **D.1: Improve the condition of all bridges based on deck area**
    - Percent of bridge area rated as structurally deficient.
  - **D.2: Increase the lane miles of pavement in good or fair condition**
    - Percent of lane miles of pavement in fair or better condition.
  - **D.3: Increase percent of transit vehicles and facilities in good or fair condition**
    - Percent of transit fleet under recommended maximum age.

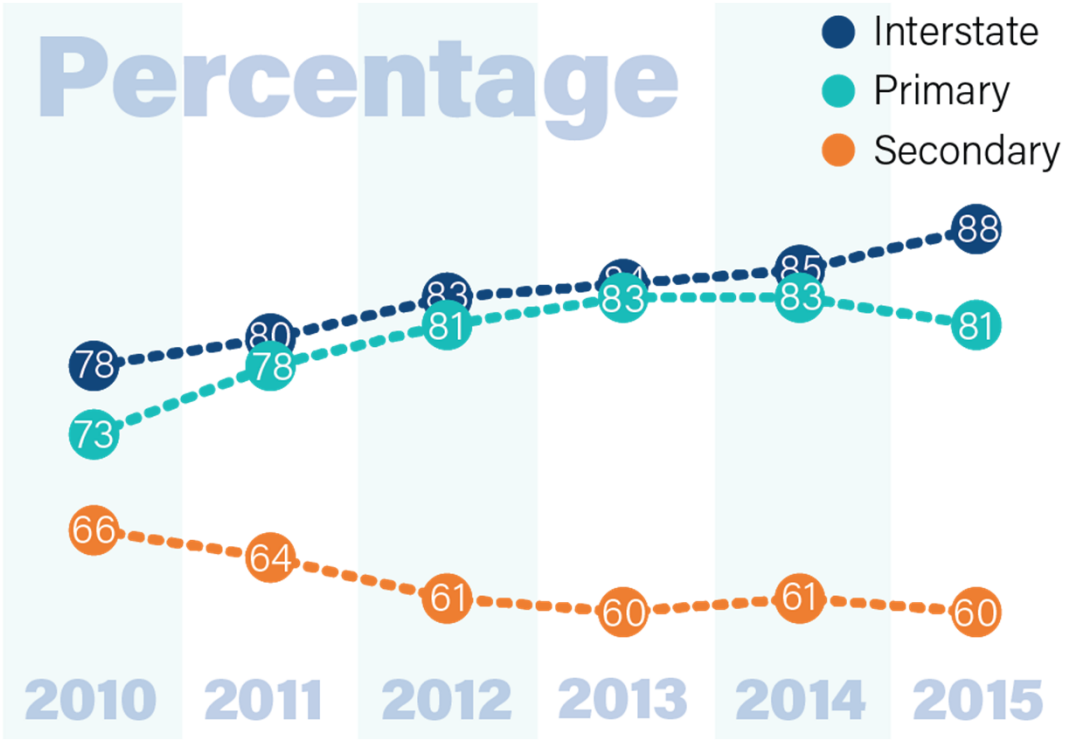
Example: D.1: Improve the condition of all bridges based on deck area

Percent of bridge area rated as structurally deficient.



Example: D2. Increase the lane miles of pavement in good or fair condition

Percent of lane miles of pavement in fair or better condition.

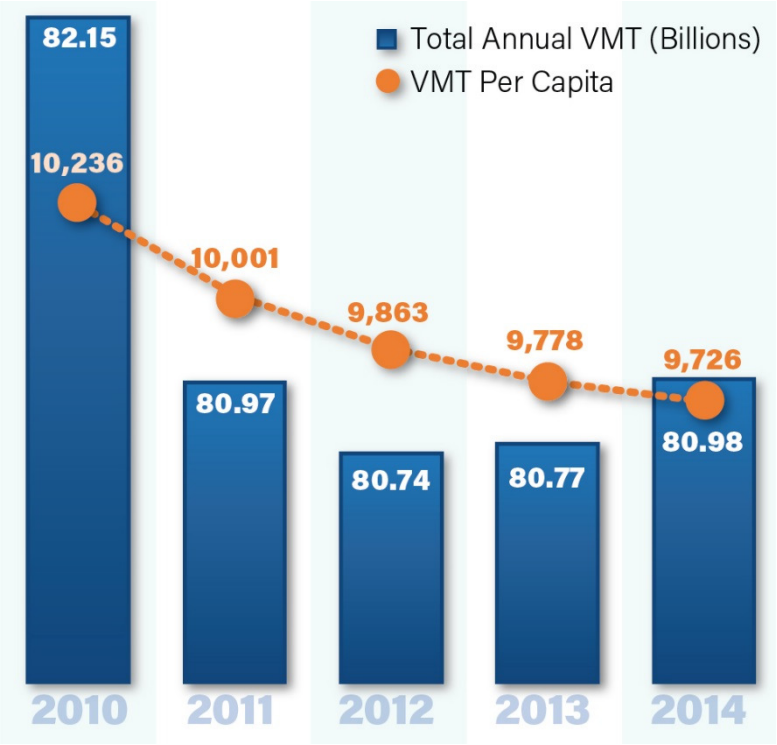


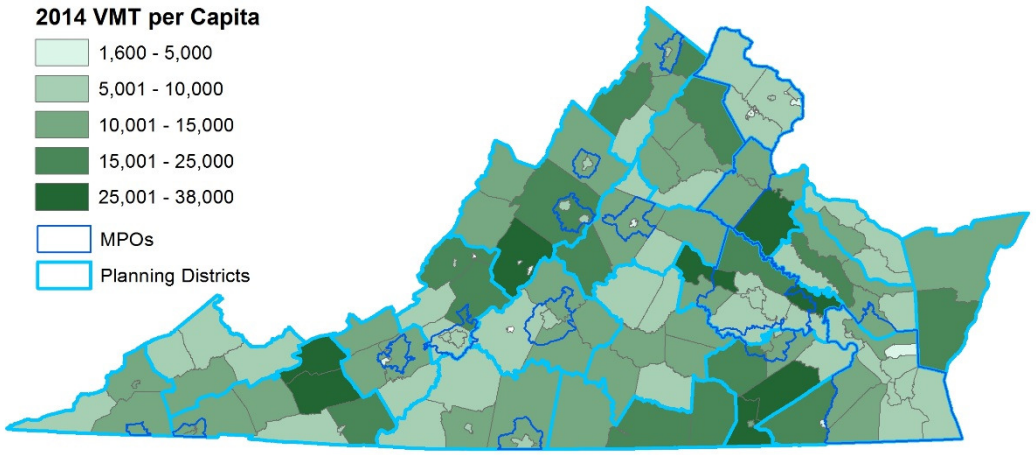
VTrans2040 GOAL: HEALTHY COMMUNITIES AND SUSTAINABLE TRANSPORTATION COMMUNITIES

- **Objectives:**
  - **E.1 Reduce per-capita vehicle miles traveled**
    - Vehicle miles traveled (VMT) per capita.
  - **E.2 Reduce transportation related criteria pollutant and greenhouse gas emissions**
    - Annual emissions of NOX, VOC, PM, and CO2 in tons.
  - **E.3 Increase the number of trips traveled by active transportation (bicycling and walking)**
    - Estimated active transportation (bicycling and walking) trips.

Example: E.1 Reduce per-capita vehicle miles traveled

Vehicle miles traveled (VMT) per capita.





NEXT STEPS

- Present initial Annual Performance Report to the Board at May meeting
- Finish research on target setting
- Work with Board to develop policy on target setting
- Adopt targets for objectives