## CONTENTS

1. Purpose of the Policy Guide .......................... 04
   Public Involvement .................................. 04

2. Introduction to VTrans – Virginia’s Transportation Plan .......................... 05
   VTrans Vision, Guiding Principles, Goals, and Objectives \(^1\) .................. 06
   VTrans Planning Horizons ............................. 08
   Federal and State Requirements for VTrans .................. 08

3. VTrans Travel Markets for Mid-term Needs \(^1\) .................................. 09
   Corridors of Statewide Significance (CoSS) ............ 09
   Regional Networks (RN) .............................. 10
   Urban Development Areas (UDA) .......................... 11
   Safety ................................................. 12

4. Policy for the Identification of the VTrans Mid-term Needs \(^1\) .................. 13

5. Draft Policy for the Prioritization of the VTrans Mid-term Needs \(^2\) .......... 15
   Step 1: Define Geographical Levels of Prioritization ............. 16
   Step 2: Prioritize Within VTrans Mid-term Needs Categories .... 17
   Step 3: Aggregate and Weight VTrans Mid-term Needs Across Needs Categories .......................... 18
   Step 4: Adjust Priorities for Influencing Factors .................. 19
   Establishment of Statewide and Construction District Priority Locations ........................................... 19

\(^1\) Existing CTB Policy or Code of Virginia

\(^2\) Draft CTB Policy for Review
PURPOSE OF THE POLICY GUIDE

This Policy Guide outlines the Commonwealth Transportation Board’s (CTB)1 policy to identify and prioritize transportation needs to be addressed over the next 10 years. As such, the Policy Guide is a resource for policy makers at all levels of government as well as for Virginians interested in policies that directly or indirectly influence allocation of limited transportation dollars and impact their day-to-day lives.

In light of limited transportation funding, the purpose of the policy for the identification and prioritization of VTrans Mid-term Needs is to provide a transparent, data-driven, systematic, and replicable process that is informed by public feedback to:

1. Identify pressing transportation needs that may require policies or investments, and
2. Prioritize the needs to determine a subset that are more critical and where solutions may make the biggest contribution to making progress towards the achievement of CTB’s transportation goals.

Additional details on the implementation of the policy, for example how a particular calculation is performed or source of data utilized, can be found in the Technical Guide for the Identification and Prioritization of the VTrans Mid-term Needs, a companion document to this policy guide. The Technical Guide is a resource for planners and engineers interested in data sources, methods, and processes.

Public Involvement

Public and agency involvement is an integral part of the CTB’s policy development process. This Policy Guide synthesizes a draft VTrans policy, which is available for review and feedback, with existing relevant VTrans policies to provide a cohesive overview of the identification and prioritization of transportation needs for VTrans.

Existing CTB Policies

Any comments and feedback on VTrans-related CTB Policies will be considered for future modifications of the policy.

- VTrans Vision, Guiding Principles, Goals, and Objectives: These were approved by the CTB in January 2020.2
- VTrans Travel Markets: VTrans Travel Markets have been established by the CTB. Please refer to Section 3 for more details.
- Policy for the Identification of the VTrans Mid-term Needs: The Policy for the Identification of the VTrans Mid-term Needs was approved by the CTB in January 2020.2

Draft CTB Policy for Review

- Policy for the Prioritization of VTrans Mid-term Needs: The Policy, included in this Guide as Section 5, is for review and comment.

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1 Transportation Board established pursuant to § 33.2-2200
2 Commonwealth Transportation Board, Actions to Approve the 2019 VTrans Vision, Goals, Objectives, Guiding Principles and the 2019 Mid-term Needs Identification Methodology and Accept the 2019 Mid-term Needs, January 15, 2020
INTRODUCTION TO VTRANS – VIRGINIA’S TRANSPORTATION PLAN

VTrans is the Commonwealth of Virginia’s multimodal transportation plan to advance the CTB’s vision for transportation in the Commonwealth. The CTB, with assistance from the Office of Intermodal Planning and Investment (OIPI),\(^1\) develops VTrans to identify transportation needs which may be addressed by multimodal infrastructure projects, transportation strategies, creation of new policies, or modifications of existing policies. This Policy Guide addresses one of the four VTrans major components, VTrans Mid-term Needs Identification and Prioritization, as depicted in Figure 1.

Figure 1: Major Components of VTrans


*Focus of this Policy Guide

\(^1\) Office of Intermodal Planning and Investment of the Secretary of Transportation established pursuant to § 2.2-229
VTrans Vision, Guiding Principles, Goals, and Objectives

The first major component of VTrans, development of the Vision, Guiding Principles, Goals, and Objectives, forms the basis upon which the remaining three major components, the VTrans Mid-term Needs, VTrans Long-term Needs, and Strategic Actions, are developed to advance the CTB’s vision. The CTB updated and adopted the VTrans Guiding Principles, Goals, and Objectives in 2020.¹

**Vision**

Virginia’s multimodal transportation system will be Good for Business, Good for Communities, and Good to Go. Virginians will benefit from a sustainable, reliable transportation system that advances Virginia businesses, attracts a 21st century workforce, and promotes healthy communities where Virginians of all ages and abilities can thrive.

**Guiding Principles**

**GP1: Optimize Return on Investments**
Implement the right solution at the right price, striving to meet current needs while advancing long-term prosperity and livability.

**GP2: Ensure Safety, Security, and Resiliency**
Provide a transportation system that is safe for all users, responds immediately to short-term shocks such as weather events or security emergencies, and adapts effectively to long-term stressors such as sea level rise.

**GP3: Efficiently Deliver Programs**
Deliver high-quality projects and programs in a cost-effective and timely manner.

**GP4: Consider Operational Improvements and Demand Management First**
Maximize capacity of the transportation network through increased use of technology and operational improvements as well as managing demand for the system before investing in major capacity expansions.

**GP5: Ensure Transparency and Accountability, and Promote Performance Management**
Work openly with partners and engage stakeholders in project development and implementation. Establish performance targets that consider the needs of all communities, measure progress towards targets. Adjust programs and policies as necessary to achieve the established targets.

**GP6: Improve Coordination Between Transportation and Land Use**
Encourage local governments to plan and manage transportation-efficient land development by providing incentives, technical support, and collaborative initiatives.

**GP7: Ensure Efficient Intermodal Connections**
Provide seamless connections between modes of transportation to harness synergies.

<table>
<thead>
<tr>
<th>Goals</th>
<th>Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goal A: Economic Competitiveness and Prosperity</strong>&lt;br&gt;Invest in a transportation system that supports a robust, diverse, and competitive economy</td>
<td><strong>Objectives:</strong>&lt;br&gt;- A.1. Reduce the amount of travel that takes place in severe congestion&lt;br&gt;- A.2. Reduce the number and severity of freight bottlenecks&lt;br&gt;- A.3. Improve reliability on key corridors for all modes</td>
</tr>
<tr>
<td><strong>Goal B: Accessible and Connected Places</strong>&lt;br&gt;Increase opportunities for people and businesses to efficiently access jobs, services, activity centers, and distribution hubs</td>
<td><strong>Objectives:</strong>&lt;br&gt;- B.1. Reduce average peak-period travel times in metropolitan areas&lt;br&gt;- B.2. Reduce average daily trip lengths in metropolitan areas&lt;br&gt;- B.3. Increase the accessibility to jobs via transit, walking, and driving in metropolitan areas</td>
</tr>
<tr>
<td><strong>Goal C: Safety for All Users</strong>&lt;br&gt;Provide a safe and secure transportation system for passengers and goods on all travel modes</td>
<td><strong>Objectives:</strong>&lt;br&gt;- C.1. Reduce the number and rate of motorized fatalities and serious injuries&lt;br&gt;- C.2. Reduce the number of non-motorized fatalities and serious injuries</td>
</tr>
<tr>
<td><strong>Goal D: Proactive System Management</strong>&lt;br&gt;Maintain the transportation system in good condition and leverage technology to optimize existing and new infrastructure</td>
<td><strong>Objectives:</strong>&lt;br&gt;- D.1. Improve the condition of all bridges based on deck area&lt;br&gt;- D.2. Increase the lane miles of pavement in good or fair condition&lt;br&gt;- D.3. Increase percent of transit vehicles and facilities in good or fair condition</td>
</tr>
<tr>
<td><strong>Goal E: Healthy Communities and Sustainable Transportation Communities</strong>&lt;br&gt;Support a variety of community types promoting local economies and healthy lifestyles that provide travel options, while preserving agricultural, natural, historic, and cultural resources</td>
<td><strong>Objectives:</strong>&lt;br&gt;- E.1. Reduce per-capita vehicle miles traveled&lt;br&gt;- E.2. Reduce transportation related NOX, VOC, PM, and CO emissions&lt;br&gt;- E.3. Increase the number of trips traveled by active transportation (bicycling and walking)</td>
</tr>
</tbody>
</table>
VTrans Planning Horizons

The CTB identifies needs for the following two planning horizons. This Policy Guide focuses on the identification and prioritization of the VTrans Mid-term Needs.

- Mid-term Planning Horizon: VTrans’ analysis for the mid-term planning horizon identifies some of the most pressing transportation issues that need to be addressed over the next 10 years. These needs are referred to as VTrans Mid-term Needs. The needs are identified so that they can inform or guide transportation policies, strategies, and infrastructure improvements developed and implemented by Virginia Department of Transportation (VDOT) and the Department of Rail and Public Transportation (DRPT), as well as local and regional entities.

- Long-term Planning Horizon: VTrans’ analysis for long-term planning identifies needs for a zero- to 20-plus-year planning horizon that may require gradual and systematic shifts in policy. These needs are referred to as VTrans Long-term Needs.

Federal and State Requirements for VTrans

There are several statutory and regulatory requirements that guide and inform VTrans. Key requirements related to the identification and prioritization of the VTrans Mid-term Needs are summarized below:

Federal Transportation Planning and Performance Reporting Requirements

Federal requirements per 23 U.S.C. 135 call for states to develop a statewide transportation plan for “the development and integrated management and operation of transportation systems and facilities (including accessible pedestrian walkways, bicycle transportation facilities, and intermodal facilities that support intercity transportation, including intercity buses and intercity bus facilities and commuter vanpool providers) that will function as an intermodal transportation system for the State and an integral part of an intermodal transportation system for the United States.” In addition to that, VTrans meets the requirements associated with 23 CFR § 450.216, Development and content of the long-range statewide transportation plan, and 49 U.S.C. § 70202, State Freight Plans.

Virginia Transportation Planning and Programming Requirements

There are several direct or indirect transportation planning requirements or related items in the Code of Virginia that are addressed by VTrans. Some of the key requirements are:

- Develop and Update Statewide Transportation Plan: Code of Virginia § 33.2-353 requires OIPI to assist the CTB in the development and update of a statewide transportation plan that includes assessment of capacity needs of “travel markets,” which are discussed in Section 3.1. Per the code, the CTB must update the plan at least once every four years.

- Role of OIPI: Code of Virginia § 2.2-229 establishes the OIPI within the Office of the Secretary of Transportation, and charges OIPI to assist the CTB in the development of a comprehensive, multimodal transportation policy, which may be developed as part of the Statewide Transportation Plan pursuant to § 33.2-353.

- Statewide Prioritization Process for Project Selection: Pursuant to Code of Virginia § 33.2-214.1, locally and regionally proposed projects funded through the CTB’s SMART SCALE Program must meet one or more identified VTrans Mid-term Needs.

- Eligibility for Revenue-sharing Funds: Pursuant to Code of Virginia § 33.2-357, VTrans Mid-term Needs are utilized in the prioritization process for VDOT’s Revenue Sharing Program.
Corridors of Statewide Significance (CoSS)

- **Number:** 12

- **Definition:** An integrated set of multimodal transportation facilities to support interregional travel of people and goods within and outside the state

- **Purpose:**
  - Support inter-regional and interstate travel
  - Connect major centers of activity within and through the Commonwealth
  - Promote the movement of people and goods essential to the economic prosperity of the state

- **Established:**
  - Eleven (11) corridors were established\(^1\) as part of VTrans2035 in 2009, and one was established\(^2\) in May 2011

- **Characteristics:**
  - Multimodal – must involve multiple modes of travel or must be an extended freight corridor
  - Connectivity – must connect regions, states, and/or major activity centers
  - High volume – must involve a high volume of travel
  - Function – must provide a unique statewide function and/or address statewide goals

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\(^1\) Commonwealth Transportation Board, *VTrans2035 – Virginia’s Statewide Multimodal Long-Range Transportation Plan*, December 17, 2009.

\(^2\) Commonwealth Transportation Board, Northern Virginia North-South Corridor of Statewide Significance, May 28, 2011.
Regional Networks (RN)

- **Number:** 15

- **Definition:** Based on designated Metropolitan Planning Organizations (MPO) within the Commonwealth. If an MPO boundary includes only a portion of a county, the entire county will be included in the needs analysis area.

- **Purpose:**
  - Support intra-regional travel
  - Bridge the gap between existing conditions and the desired future for the state’s economy

- **Established:**
  - Regional Networks were established as part of VTrans2040

- **Characteristics:**
  - At least 50,000 people in an urbanized area per US Census estimates
  - Regional Networks include VTrans Activity Centers, which are “areas of regional importance that have a high density of economic and social activity” and are associated with the Regional Networks (RNs)

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1 Commonwealth Transportation Board, VTrans2040 Virginia’s Statewide Multimodal Long-Range Transportation Plan Vision Plan and Needs Assessments, December 9, 2015
Urban Development Areas (UDA)

- **Number of UDAs:** 230 UDAs; 1,535 Industrial and Economic Development Areas (IEDA)\(^2\)

- **Definition:** Urban Development Areas are locally-designated growth areas based on local initiatives pursuant to VA Code §15.2-2223. Industrial and Economic Development Areas (IEDAs) are locally-identified industrial and economic development sites submitted to Virginia Economic Development Partnership (VEDP)'s Business-Ready Site Program pursuant to §2.2-2238.

- **Purpose:**
  - The purpose of UDAs is to: (1) support local, walkable places; and, (2) to the extent possible, to direct federal, state and local transportation, housing, water and sewer facility, economic development, and other public infrastructure funding to designated UDAs. The purpose of IEDAs is to support economic development.

- **Established:**
  - UDAs are established on an ongoing basis, per local government designation in a locality’s Comprehensive Plan pursuant to §15.2-2223. IEDAs are also established or removed on an ongoing basis.

- **Characteristics of UDAs:**
  - Pedestrian-friendly road design
  - Interconnection of new local streets with existing local streets and roads
  - Connectivity of road and pedestrian networks
  - Preservation of natural areas
  - Mixed-use neighborhoods, including mixed housing types, with affordable housing to meet the projected family income distributions of future residential growth
  - Reduction of front and side yard building setbacks
  - Reduction of subdivision street widths and turning radii at subdivision street intersections

- **Characteristics of IEDAs:**
  - Pursuant to §2.2-2238 and consistent with Virginia Economic Development Partnership’s (VEDP) Business Ready Sites Program (VBRSP)
  - Minimum of 100 contiguous acres (statutory); VEDP accepts sites of 25+ acres
  - Allows for industrial and research parks
  - Applicants to program must be political subdivisions of the Commonwealth of Virginia, including counties, cities, towns, industrial/economic development authorities, and redevelopment and housing authorities or regional industrial facility authority

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\(^1\) As of November 30, 2019
\(^2\) As of November 30, 2019
Safety

**Definition:** A Safety analysis is conducted for all public roadways in the Commonwealth

**Established:** The Safety Travel Market was established as part of VTrans2040¹

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¹ Commonwealth Transportation Board, VTrans2040 Virginia’s Statewide Multimodal Long-Range Transportation Plan Vision Plan and Needs Assessments, December 9, 2015
The Policy for the Identification of VTrans Mid-term Needs establishes multimodal need categories that correspond to the Board-adopted VTrans Vision, Goals, and Objectives. Each need category has one or more performance measures and thresholds to identify one or more needs. The Policy for the Identification of the VTrans Mid-term Needs was approved by the Commonwealth Transportation Board in January 2020.

Table 1 below outlines need categories and corresponding measures and thresholds established per the CTB policy for the identification of VTrans Mid-term Needs. Locations where the performance measure exceeds the threshold are designated as VTrans Mid-term Needs.

### Table 1: VTrans Goals and Associated VTrans Mid-term Needs Categories

<table>
<thead>
<tr>
<th>Need Category</th>
<th>VTrans Travel Market(s)</th>
<th>Measure and Threshold for Establishing VTrans Mid-term Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goal A: Economic Competitiveness and Prosperity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Congestion Mitigation</td>
<td>CoSS, RN</td>
<td>At least 2% of the average travel takes place in the excessively congested condition, defined as travel speed below 75% of posted speed limit</td>
</tr>
<tr>
<td></td>
<td>CoSS, RN</td>
<td>Travel Time Index (TTI) 1.3 or higher for at least three hours OR 1.5 or higher for at least one hour</td>
</tr>
<tr>
<td>Improved Reliability (Highway)</td>
<td>CoSS, RN</td>
<td>Level of Travel Time Reliability (LOTTR) 1.5 or higher for at least one hour</td>
</tr>
<tr>
<td>Improved Reliability (Intercity and Commuter Rail)</td>
<td>COSS</td>
<td>Intercity or commuter rail on-time performance less than 80% at applicable rail stations OR on-time performance less than 90% for applicable rail lines</td>
</tr>
<tr>
<td><strong>Goal B: Accessible and Connected Places</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transit Access to Equity Emphasis Areas</td>
<td>RN</td>
<td>An area with no fixed-route transit service, that has population density to support fixed-route transit service, and that has significantly higher-than-average concentrations of people who are low-income, people with disabilities, minority populations, populations with Limited English Proficiency (LEP), or populations age 75 or higher.</td>
</tr>
<tr>
<td>Transit Access to Activity Centers</td>
<td>RN</td>
<td>A VTrans Activity Center where the Deficit of workers who can access the Activity Center by bus or rail transit within 45 minutes compared to those who can access the Activity Center by automobile within 45 minutes is greater than 0</td>
</tr>
<tr>
<td>Pedestrian Access to Activity Centers</td>
<td>RN</td>
<td>1-mile distance from local-serving and knowledge-based Activity Centers, fixed-guideway transit stations, and bus rapid transit (BRT) lines</td>
</tr>
<tr>
<td>Bicycle Access to Activity Centers</td>
<td>RN</td>
<td>7-mile distance from around local-serving and knowledge-based Activity Centers, fixed-guideway transit stations, and bus rapid transit (BRT) lines</td>
</tr>
<tr>
<td>Access to Industrial and Economic Development Areas (IEDAs)</td>
<td>Statewide</td>
<td>Virginia Business Ready Sites Program site with readiness status of Tier 3 or above</td>
</tr>
<tr>
<td>Urban Development Areas (UDAs)</td>
<td>UDA²</td>
<td>Locality-identified transportation needs for bicycle and pedestrian infrastructure, circulation and access, safety, transit enhancements and access to locally designated UDAs</td>
</tr>
</tbody>
</table>

1 Commonwealth Transportation Board, Actions to Approve the 2019 VTrans Vision, Goals, Objectives, Guiding Principles and the 2019 Mid-term Needs Identification Methodology and Accept the 2019 Mid-term Needs, January 15, 2020
2 Per Code of Virginia § 33.2-353 and § 15.2-2223.1
### POLICY FOR THE IDENTIFICATION OF THE VTRANS MID-TERM NEEDS (CONTINUED)

<table>
<thead>
<tr>
<th>Need Category</th>
<th>VTrans Travel Market(s)</th>
<th>Measure and Threshold for Establishing VTrans Mid-term Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goal C: Safety for All Users</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roadway Safety</td>
<td>Statewide</td>
<td>For each Construction District, includes VDOT Top 100 Potential for Safety Improvement (PSI) Intersections and Segments, and PSI locations with 3+ Fatal or Injury crashes at the intersection or segment over the last five years</td>
</tr>
<tr>
<td><strong>Goal D: Proactive System Management</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity Preservation</td>
<td>CoSS, RN</td>
<td>Inclusion in the VDOT Arterial Preservation Network[^2] (the state-maintained portion of the National Highway System, as well as additional highways that facilitate connectivity)</td>
</tr>
<tr>
<td><strong>Goal E: Healthy Communities and Sustainable Transportation Communities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transportation Demand Management</td>
<td>CoSS, RN</td>
<td>Transportation Demand Management (TDM) needs based on roadway facility type and VTrans Travel Market</td>
</tr>
</tbody>
</table>

### Interpretation of the Identified VTrans Mid-term Needs

Identified Needs or underlying issues are assigned to roadway segments or node for geographical precision. They should be interpreted in the following manner:

- A solution does not have to be co-located with a need as long as the purpose and effectiveness of a solution addresses the underlying VTrans Mid-term Need.

- A VTrans Need Category does not specify a type or mode of response. For example, a solution to a Need for Improved Reliability may not be a roadway-centric and can instead be addressed by multimodal infrastructure improvements such as transit or rail services or park-and-ride infrastructure. Similarly, a Need for Improved Reliability may also be addressed by policies (e.g. variable pricing, occupancy or vehicle restrictions, etc.) or programs such as commuter assistance programs.

[^1]: http://www.virginiadot.org/business/resources/VDOT_PSAP_Report_052118_with_Appendix_A_B_C.pdf
[^2]: VDOT Arterial Preservation Program Network
DRAFT POLICY FOR THE PRIORITIZATION OF THE VTRANS MID-TERM NEEDS

The Draft Policy for the Prioritization of the VTrans Mid-term Needs is conducted in four steps shown in Figure 2 and described in greater detail below.

Figure 2: Steps for Prioritization of the VTrans Mid-term Needs

- **Step 1: Define Geographical Levels of Prioritization**
  - Establish criteria for aggregating VTrans Need Categories

- **Step 2: Prioritize Within Needs Categories**
  - Establish priorities within each VTrans Need Category

- **Step 3: Weigh andAggregate Needs Across Needs Categories**
  - Applying weighting
  - Identify initial Statewide and Construction District Priority Locations

- **Step 4: Adjust Priorities for Influencing Factors**
  - Consider influencing factors
  - Adjust the Statewide and Construction District Priority Locations

- **Step 1:** Two sets of priorities are established – Statewide Priority Locations and VDOT Construction District Priority Locations for each of the nine Districts. Each relies on different Need Categories and Travel Markets per Table 2.

- **Step 2:** This step utilizes the severity of a need and the magnitude of the impact of the need to categorize the Board-adopted 2019 VTrans Mid-term Needs as Very High, High, Medium, and Low.

- **Step 3:** This step takes the needs as categorized above and weights them to form a location- or roadway segment-specific weighted score.

- **Step 4:** The final step makes adjustments to the step three results in light of factors affecting the transportation network that may be important to take into account, and then categorizes the locations as Statewide Priority 1, Priority 2, Priority 3, or Priority 4, and District Priority 1, Priority 2, Priority 3, or Priority 4.
Step 1: Define Geographical Levels of Prioritization

Two sets of Priority Locations are established – Statewide Priority Locations and Construction District Priority Locations. Each relies on different Need Categories and Travel Markets per Table 2.

Table 2: Geographic Levels of Prioritization and Applicable Travel Markets

<table>
<thead>
<tr>
<th>Levels of Prioritization</th>
<th>Statewide Priority Locations</th>
<th>Construction District Priority Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggregation Level</td>
<td>Statewide: Corridors of Statewide Significance</td>
<td>VDOT Construction District</td>
</tr>
</tbody>
</table>

Applicable Need Categories

- Congestion Mitigation (CoSS)
- Improved Reliability (Highway) (CoSS)
- Improved Reliability (Intercity and Commuter Rail) (CoSS)
- Roadway Safety (along CoSS)
- Capacity Preservation (CoSS)
- Transportation Demand Management (CoSS)

- Congestion Mitigation (RN)
- Improved Reliability (Highway) (RN)
- Transit Access to Equity Emphasis Areas (RN)
- Transit Access to Activity Centers (RN)
- Pedestrian Access to Activity Centers (RN)
- Bicycle Access to Activity Centers (RN)
- Access to Industrial and Economic Development Areas (IEDA)
- Safety (Segments and Intersections)
- Safety (Pedestrian Safety)
- Capacity Preservation (RN)
- Transportation Demand Management (RN)
Step 2: Prioritize Within VTrans Mid-term Needs Categories

The second step establishes priorities Very High, High, Medium, and Low within each VTrans Mid-term Need Category per the following:

- Very High Priority: Top 5% of the total mileage of the applicable needs
- High Priority: Top 5.001%–15% of the total mileage
- Medium Priority: Top 15.001%–25% of the total mileage
- Low Priority: Bottom 25.001%–100% of the total mileage

The above-referenced priorities within each VTrans Mid-term Need Category are categorized based on the following two criteria:

- Severity of the Need: This criteria takes into account the intensity or extremity of the Need.
- Magnitude of the Need: This criteria takes into account the number of residents, vehicles, or persons impacted by the Need.

These criteria are explained in more detail in the Technical Guide for the Identification and Prioritization of VTrans Mid-term Needs.

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1 Limitations of the existing datasets as well as the need to avoid small fractional distributions of the needs have required utilization of non-percentile based distribution or prioritization within VTrans Mid-term Needs. These are outlined in more detail in the Technical Guide for the Identification and Prioritization of the VTrans Mid-term Needs.
Step 3: Weigh and Aggregate VTrans Mid-term Needs Across Needs Categories

The third step takes the VTrans Mid-term Needs as categorized above, weighs and aggregates them to form a location- or roadway segment-specific score. Weighting for Construction District Priority Locations are based on SMART SCALE Area Types.¹

Table 3: Weighting to Establish Statewide and Construction District Priority Locations:

<table>
<thead>
<tr>
<th>Travel Market</th>
<th>Board-adopted VTrans Need Category</th>
<th>Weighting – Statewide Priority</th>
<th>Weighting – Construction District Priority¹</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Area Type A</td>
</tr>
<tr>
<td>CoSS</td>
<td>Congestion Mitigation</td>
<td>25.00%</td>
<td></td>
</tr>
<tr>
<td>CoSS</td>
<td>Improved Reliability (Highway)</td>
<td>15.00%</td>
<td></td>
</tr>
<tr>
<td>CoSS</td>
<td>Improved Reliability (Intercity and Commuter Rail)</td>
<td>10.00%</td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td>Roadway Safety (along CoSS)</td>
<td>25.00%</td>
<td></td>
</tr>
<tr>
<td>CoSS</td>
<td>Capacity Preservation</td>
<td>10.00%</td>
<td></td>
</tr>
<tr>
<td>CoSS</td>
<td>Transportation Demand Management</td>
<td>15.00%</td>
<td></td>
</tr>
<tr>
<td>RN</td>
<td>Congestion Mitigation</td>
<td></td>
<td>25.00%</td>
</tr>
<tr>
<td>RN</td>
<td>Improved Reliability (Highway)</td>
<td></td>
<td>20.00%</td>
</tr>
<tr>
<td>RN</td>
<td>Transit Access to Equity Emphasis Areas</td>
<td>5.00%</td>
<td>6.25%</td>
</tr>
<tr>
<td>RN</td>
<td>Transit Access to Activity Centers</td>
<td></td>
<td>5.00%</td>
</tr>
<tr>
<td>RN</td>
<td>Pedestrian Access to Activity Centers</td>
<td></td>
<td>5.00%</td>
</tr>
<tr>
<td>RN</td>
<td>Bicycle Access to Activity Centers</td>
<td></td>
<td>5.00%</td>
</tr>
<tr>
<td>UDA</td>
<td>Access to Industrial and Economic Development Areas</td>
<td>2.50%</td>
<td>10.00%</td>
</tr>
<tr>
<td>Safety</td>
<td>Roadway Safety</td>
<td></td>
<td>15.00%</td>
</tr>
<tr>
<td>Safety</td>
<td>Pedestrian Safety</td>
<td></td>
<td>5.00%</td>
</tr>
<tr>
<td>RN</td>
<td>Capacity Preservation</td>
<td></td>
<td>2.50%</td>
</tr>
<tr>
<td>RN</td>
<td>Transportation Demand Management</td>
<td></td>
<td>10.00%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>100.00%</strong></td>
</tr>
</tbody>
</table>

Step 4: Adjust Priorities for Influencing Factors

The final step is to adjust the scores determined in Step 3 in light of factors affecting the transportation network that may be important to take into account. Presence or absence of these factors will not cause a location to be assigned a lower Priority level than assigned in Step 3; they can only increase a location’s Priority level.

- Co-located bridge repair, rehabilitation, or replacement needs
- Co-located pavement repair, rehabilitation, or replacement needs
- Exposure to projected sea level rise, storm surge, or historical or projected inland/riverine flooding

Adjustments are made for each location from Step 3 based on the level of the applicable influencing factor criteria.

Establishment of Statewide and Construction District Priority Locations

The final adjusted Statewide Priority Locations and Construction District Priority Locations are then established as follows:

Statewide Priority Locations are assigned levels 1–4 based on their relative statewide rank by roadway segment mileage in the following manner:

- Priority 1 Locations: Top 0%–1% of the total mileage
- Priority 2 Locations: 1.001%–5% of the total mileage
- Priority 3 Locations: 5.001%–15% of the total mileage
- Priority 4 Locations: Bottom 15.001%–100% of the total mileage

Construction District Priority Locations are assigned levels 1–4 based on their relative rank for each VDOT Construction District by roadway segment mileage in the following manner:

- Priority 1 Locations: Top 0%–1% of the total mileage
- Priority 2 Locations: 1.001%–5% of the total mileage
- Priority 3 Locations: 5.001%–15% of the total mileage
- Priority 4 Locations: Bottom 15.001%–100% of the total mileage
Interpretation of the Prioritized VTrans Mid-term Needs

Prioritized Needs are location-specific for geographical precision. They should be interpreted in the following manner:

- A solution does not have to be co-located with a prioritized need or location as long as the purpose and effectiveness of a solution addresses the underlying issue(s).

- A VTrans Need Category does not specify a type or mode of response. For example, a solution to a Need for Improved Reliability may not be a roadway-centric and can instead be addressed by multimodal infrastructure improvements such as transit or rail services or park-and-ride infrastructure. Similarly, a Need for Improved Reliability may also be addressed by policies (e.g. variable pricing, occupancy or vehicle restrictions, etc.) or programs such as commuter assistance programs.