VTrans:

Virginia's Statewide Multimodal Transportation Plan

Kick-off: VTrans Update

Southwest VA MPO/PDC Meeting Tuesday, December 4, 2018

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OUTLINE

- What is VTrans?
- Review of VTrans2040
- Kick-off of VTrans Update
 - Major components
 - Key modifications from VTrans2040
 - Expected outcomes
 - Tentative timeline
- Stakeholder Involvement





- VTrans is Virginia's Multimodal Transportation Plan
 - Provides a backdrop for consistent and coordinated performance-based transportation planning between federal, state, regional, and local agencies.
 - Performance-based, multimodal, long-range plan that is coordinated with MPO's and other stakeholders.
 - Includes a Needs Assessment
 - Updated at least every four years
 - VTrans has a statewide perspective and is not a compilation of local or regional plans



Sample of Federal Requirements (23 U.S.C § 135)

- Have a minimum 20-year forecast period
- Be multimodal
- Include coordination with MPO's and other regional organizations
- Take consideration of USDOT's ten planning factors
- Use a performance-based approach (including the use of performance targets)



Sample of State Requirements (Va. Code Ann. § 33.2-353)

- **Incorporate the measures and goals** of the approved long-range plans developed by the applicable regional organizations
- Shall be updated as needed but no less than once every four years
- The plan shall promote economic development and all transportation modes, intermodal connectivity, environmental quality, accessibility for people and freight, and transportation safety



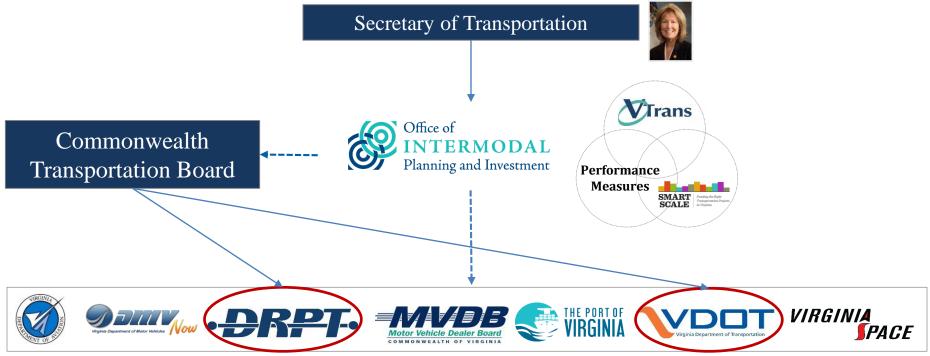
Sample of State Requirements (Va. Code Ann. § 33.2-353)

- Include a Statewide transportation needs assessment, setting forth capacity needs for all
 - corridors of statewide significance,
 - regional networks,
 - and improvements to promote urban development areas,

and shall consider all modes of transportation



OIPI's ROLE in VTRANS



OIPI assists the Commonwealth Transportation Board in the Development of VTrans.

Review of VTrans2040



REVIEW OF VTRANS2040

 Vision, Goals, Objectives and Guiding Principles were approved by CTB in December 2015



- Needs approved by CTB in December, 2015
- Recommendations approved by CTB in January, 2018
- Implementation Plan went to CTB for review in November, 2018



VTRANS2040 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."





VTRANS2040 Guiding Principles

- Optimize Return on Investments
- Ensure Safety, Security, and Resiliency
- Efficiently Deliver Programs
- Consider Operational Improvements and Demand Management First
- Ensure Transparency and Accountability, and Promote Performance Management
- Improve Coordination between Transportation and Land Use
- Ensure Efficient Intermodal Connections

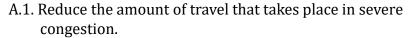


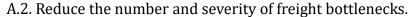


VTRANS2040 Goals & Objectives

Goal A – **Economic Competitiveness and Prosperity**:

Invest in a transportation system that supports a robust, diverse, and competitive economy.





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



Goal B - Accessible and Connected Places:

Increase the opportunities for people and businesses to efficiently access jobs, services, activity centers, and distribution hubs.

- B.1. Reduce average peak-period travel times in metropolitan areas
- B.2. Reduce average daily trip lengths in metropolitan areas.
- B.3. Increase the accessibility to jobs via transit, walking and driving in metropolitan areas.



VTRANS2040 Goals & Objectives

Goal C – **Safety for All Users**:

Provide a safe and secure transportation system for passengers and goods on all travel modes.

- C.1. Reduce the number and rate of motorized fatalities and severe injuries.
- C.2. Reduce the number of non-motorized fatalities and severe injuries.



Goal D – **Proactive System Management**:

Maintain the transportation system in good condition and leverage technology to optimize existing and new infrastructure.

- D.1. Improve the condition of all bridges based on deck area.
- D.2. Increase the lane miles of pavement in good or fair condition.
- D.3. Increase percent of transit vehicles and facilities in good or fair condition.



VTRANS2040 Goals & Objectives

Goal E - Healthy Communities and Sustainable Transportation Communities:

Support a variety of community types promoting local economies and healthy lifestyles that provide travel options, while preserving agricultural, natural, historic and cultural resources.



- E.1. Reduce per-capita vehicle miles traveled.
- E.2. Reduce transportation-related localized air pollution O3, Nox, VOC, CO
- E.3. Increase the number of trips traveled by active transportation (bicycling and walking).



REVIEW OF VTRANS2040

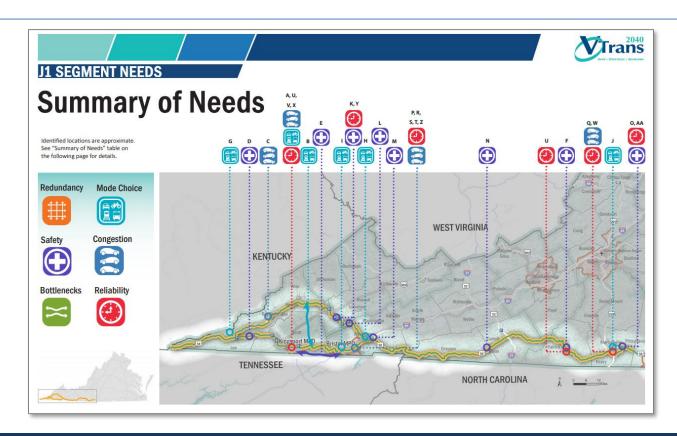
- Needs Assessment
 - Used a ten-year horizon
 - Identified needs by Travel Market:
 - Corridors of Statewide Significance
 - Regional Networks
 - Urban Development Areas (UDA's)
 - Safety (PSI's)
- Recommendations
 - Needs from the above categories were consolidated into one set of needs
 - Projects and studies were identified that could address those needs, and they were tiered (prioritized) based on analysis and local input





"Southside Corridor"

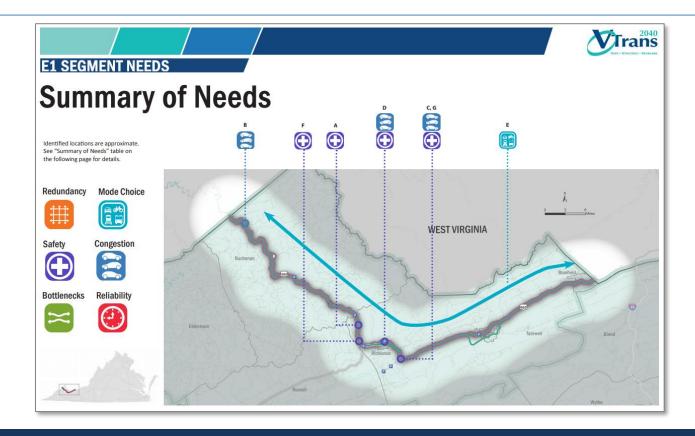
- US 58
- US 58 Business
- US 58 Alt
- US 58 Bypass
- CSX National Gateway Corridor
- Intercity bus service





"Heartland Corridor"

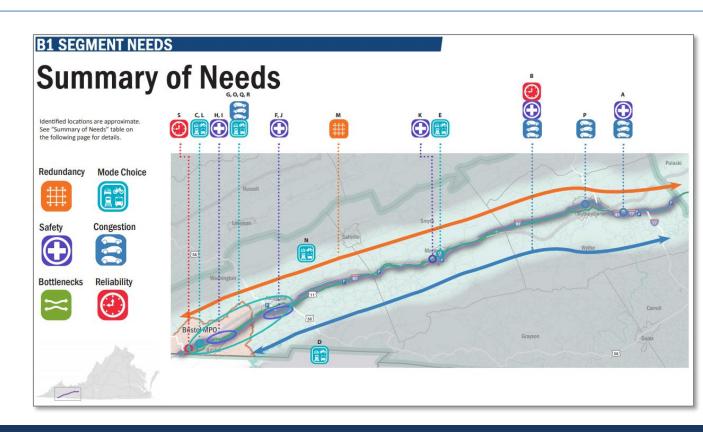
- U.S. 460
- U.S. 121 (Coalfields Expressway)
- Norfolk Southern Heartland Corridor





"Crescent Corridor"

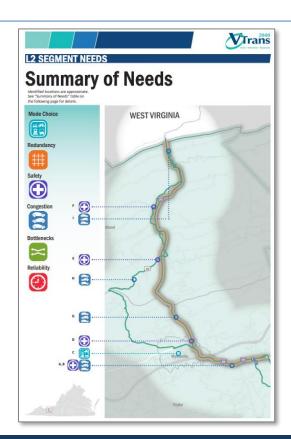
- I-81
- U.S. 11
- I-381
- Norfolk Southern Crescent Corridor
- Short Line Railroads

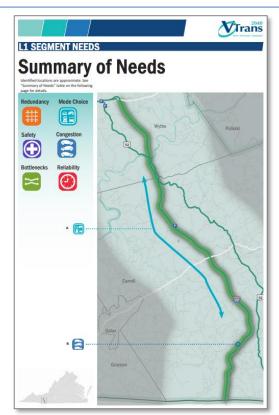




"Western Mountain Corridor"

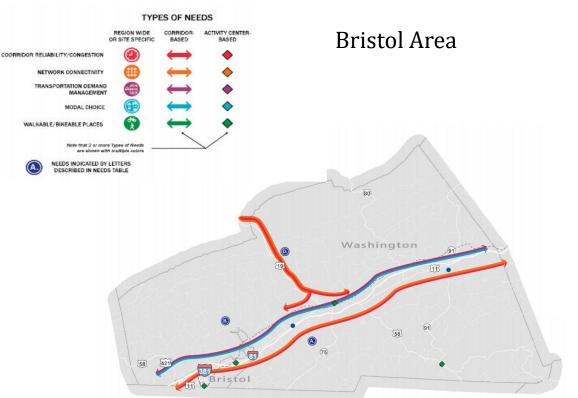
- I-77
- U.S. 52
- U.S. 11







REVIEW OF VTRANS2040 (Regional Network Needs)



Needs Table

A. I-81/US 11 Corridor Reliability

The Interstate 81/US 11 corridor serves as a major artery for the region. The corridor handles significant commute, thru, and freight traffic; serving multiple activity centers throughout the region. The corridor currently lacks alternative and/or parallel network connectivity and passenger reliability at major interchanges.

B. Regional Transit Access

The region is served by Bristol Transit, which provides service in Bristol, and District Three Transit, which provides service in Abingdon. These services provide access to multiple activity centers, but provide limited regional access. There is a need to provide connector transit services and TDM programs between these existing services to provide greater connectivity to multiple activity centers and increase modal choices on the I-81/US 11 corridor.

C. Bikeable/Walkable Places

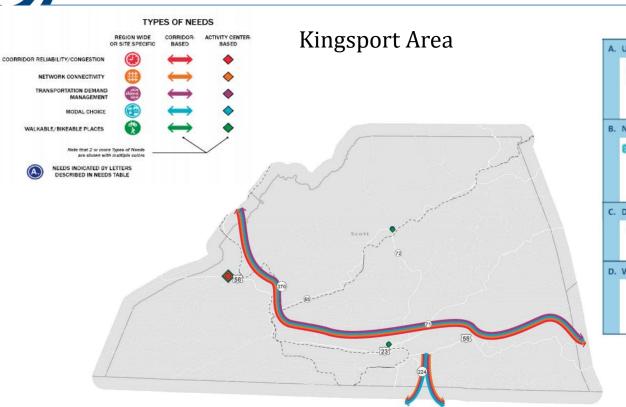
The Bristol region is largely autocentric and is generally underserved by alternative modes of transportation. However, the Creeper Trail and Downtown Bristol and Abingdon have proven to be major generators of bike and pedestrian travel. Improvements are needed to ensure connectivity and safe access for active transportation traveling to and within these activity centers.

D. Western Freight Connectivity

Route 19 is the only access point to the coal fields to the west and is a critical link for freight related traffic. There is a need to improve freight reliability to alleviate access issues.



REVIEW OF VTRANS2040 (Regional Network Needs)



Needs Table

A. US 58/23 Corridor Reliability

The US 58 and 23 serve as major thru-corridors in the region. These corridors handle significant freight and commuter traffic, serving multiple activity centers. There are currently limited alternative choices to driving single occupancy vehicles on these corridors. Redundancy in choice and network connections are needed.

B. Network Connectivity and Mode Choice to Kingsport

The most significant commuter movement in the region is across the state line, including both in-flow and out-flow from Scott County. With high volumes, access management issues, and various bottlenecks, passenger reliability is key to the economic vitality of the region.

C. Duffield Freight Connectivity

The Duffield activity center has the highest concentration of freight related industries and employment. Freight access is key to the economic vitality of this activity center.

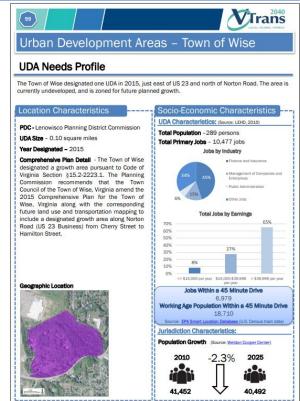
D. Walkable/Bikeable Places

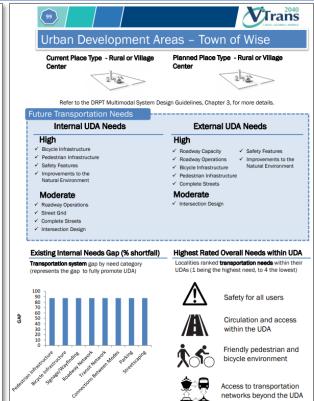
The Kingsport region is largely autocentric and is generally underserved by alternative modes of transportation. A lack of active transportation infrastructure creates safety concerns and reinforces reliance on vehicular travel.



REVIEW OF VTRANS2040 (UDA Needs)

Town of Wise designated a UDA in 2015







REVIEW OF VTRANS2040

- Current Uses
 - Vision, Goals & Objectives, and Guiding Principles
 - Overall reference for transportation planning at the state, regional, and local level
 - Needs Assessment
 - SMART SCALE (Applications for SMART SCALE must show that they address one of more VTrans Needs in order to be screened in)

VTrans Update

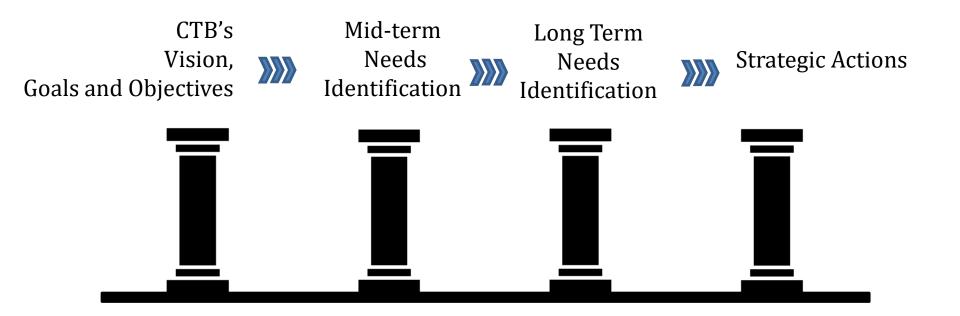


VTRANS UPDATE KICK-OFF

- Major components
- Key modifications from VTrans2040
- Expected outcomes
- Tentative timeline
- Stakeholder Involvement



MAJOR COMPONENTS





MAJOR COMPONENTS (Vision, Goals, and Objectives)

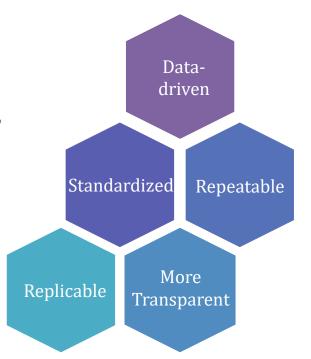
- CTB to review and reaffirm their overall direction for transportation planning & policy
- Vision to be informed by:
 - A public survey
 - Vulnerability assessment
 - Demographic and land use trends, opportunities, and challenges
 - Technology trends, opportunities, and challenges
 - Financial trends, opportunities, and challenges



MAJOR COMPONENTS (Mid-term Needs)

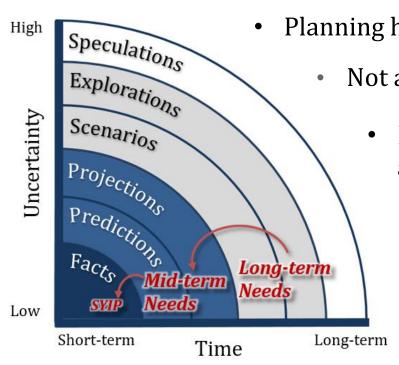
- Planning horizon: 0- 10 years
- CTB to adopt a policy for needs identification
 - Define "transportation need"
 - Review of VTrans need categories (e.g. CoSS, RN, UDA, Safety)
 - Utilize adopted Performance Targets, new measures or Key Performance Indicators (KPIs)
- Adoption of the mid-term needs by December 2019
 - Inform SMART SCALE Round 4

Ensure that methods are:





MAJOR COMPONENTS (Long-term Needs)



- Planning horizon: 10+ years
 - Not an attempt to predict, but to be prepared
 - Develop three scenarios, associated needs and revenue impacts
 - Establish connection between midterm and long-term needs
 - Finalize by 2020

MAJOR COMPONENTS (Strategic Actions)



- Develop strategic actions for Board's consideration:
 - Policy options and recommendations
 - Priorities for project planning activities



KEY MODIFICATIONS



- VTrans Update aims to:
 - Identify challenges and opportunities associated with trends
 - Provide a more complete picture for transportation investments
 - Convey <u>trade-offs</u> and opportunity cost associated with policy options
 - Relative return on investments



KEY MODIFICATIONS

- VTrans Update aims to provide compelling, easy-to-communicate snapshot of existing and envisioned transportation in Virginia.
 - Convey economic benefits associated with transportation investments
 - Identify changes in economic output and productivity
 - Identify regional connectivity needs





THEMES (Key Modifications)



Image Source: USDOT

- Resilient Transportation Infrastructure
- Smart Transportation
 Infrastructure
- Smarter Investments

 Increase awareness among public and local agencies



THEMES (Resilient Infrastructure)

Planning to ensure more resilient transportation infrastructure for fewer disruptions and fewer closures due to natural events

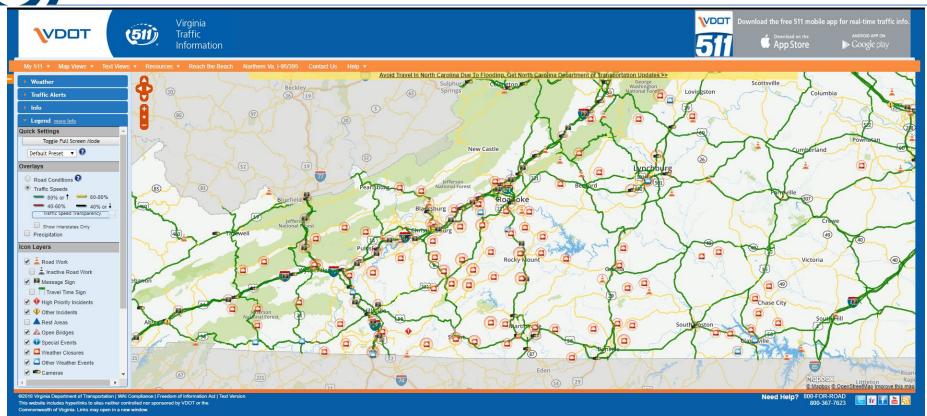
- Vulnerability Assessment
- Incorporating Asset Management Needs
- State-of-Good Repair
- Multimodal Needs



Road At Edge of Piney River Oct 11, 2018 Photo by Lee Luther Jr for *The News and Advance* (Lynchburg)



THEMES (Resilient Infrastructure)





THEMES (Smart Transportation Infrastructure)

- Planning to leverage technology and prepare for a 5G society
- Automated & Connected
- Shared
- Electric





Governor Northam Announces Selection of EVgo to Develop Statewide Public Electric Vehicle Charging Network

The contract with EVgo Services, LLC will use approximately \$14 million in funds from Virginia's share of the Volkswagen mitigation settlement





THEMES (Smarter Investments)

- Planning to achieve a higher rate of return on the Commonwealth's transportation investments
- Financial Trends
- Revenue Scenarios
- Long-term Needs Trade-off Analysis
- Prioritized Strategic Actions





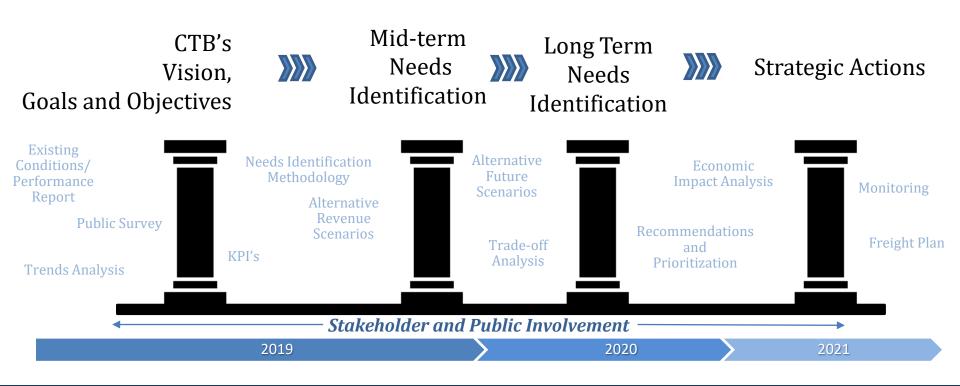


EXPECTED OUTCOMES

- Provide policy options for investment decisions to prepare for the future, such as:
 - Which transportation investments support desired growth and economic development
 - Opportunity costs associated with delaying or not pursuing certain investments
 - Possible technological changes and associated revenue impacts to prepare for
 - Planning considerations for making transportation infrastructure less vulnerable to extreme natural events



KEY MILESTONES





STAKEHOLDER INVOLVEMENT

- With MPO's & PDC's
 - Presentations throughout the Commonwealth
 - Fall/Winter 2018:
 - Kick-off/Approach
 - Spring 2019:
 - Discuss Needs Identification Methodology
 - Review Trends & Existing Conditions (to inform Vision)
 - Review Economic Profiles
 - Fall 2019:
 - Review Draft Mid-Term Needs
 - Informal updates and notifications
 - Regionally-initiated discussions



STAKEHOLDER INVOLVEMENT

- With the Public
 - Spring 2019:
 - Statewide Public Survey to gauge opinions, attitude, and preferences towards transportation issues
 - Public meetings in all nine CTB districts (Vision)
 - Continued involvement through Spring and Fall Transportation Meetings
 - Active online and social media presence



Needs Assessment Methodology

- Make VTrans accessibility and safety needs identification exercise more data-driven, transparent, replicable, and repeatable
- Clearer definition of a "Need"
 - Level of detail
 - Considerations included or not included
 - Geographic coverage
 - Data to review



- Review existing Goals and Objectives from VTrans2040
 - What would you change, and why?
- Review existing Needs from VTrans2040
 - What is missing?
 - What about the process would you change?



- What functions does the transportation system serve in your area?
 - What is it doing well?
 - What is it not doing well?



DISCUSSION

- Are there regional goals or measures you want incorporated into the VTrans plan process?
- Do you have suggestions for more effective public outreach in your area?
- Do you have big transportation ideas for your area but don't know where to include them in this process?



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