

COMMONWEALTH of VIRGINIA Office of the \_\_\_\_\_\_ SECRETARY of TRANSPORTATION













Webinar: Draft VTrans Mid-term Needs and *Interact*VTrans

Jitender Ramchandani, AICP, PMP

October 29, 2019

## **PURPOSE OF THIS WEBINAR**

- VTrans Mid-term Needs Identification Process
  - Outreach and Engagement Activities
  - Activities since the Regional Workshops
  - New Measures and Categories since the Regional Workshops
  - Revised Performance Measures and Categories
- Resources to view and utilize Mid-term Needs
  - VTrans Website
  - VTrans dataset

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- Documents displaying Draft Mid-term Needs
- <u>InteractVTrans</u> for accessing Draft Mid-term Needs
- Brief Q&A

#### **Questions received**

- Why is congestion identified as a need on some segments but not others?
- How are data from smaller areas treated to avoid being "overshadowed" by data from larger areas?
- Are land use criteria considered in evaluating performance?
- How will VTrans coordinate with Arterial Preservation?
- What changes are being proposed?
- How can I update the Tier status of my region's VEDP Business Ready Sites?
- How can I view the Needs maps at a finer scale?
- How can I get a draft report for my region?

## **RELEVANT RESOURCES**

- This webinar builds on previous webinars that provide overview of:
  - Purpose of VTrans
  - VTrans Travel Markets
  - Mid-term Needs Identification Process
- Please utilize the following resources for more in-depth background information:
  - Recording: VTrans Needs Assessment Overview (<u>Weblink</u>)
  - Recording: Urban Development Area Needs (<u>Weblink</u>)
  - Overview: VTrans Mid-term Needs webpage
- For additional or more detailed questions, please utilize following opportunities:
  - Webinar: Friday, November 8, 10 11 am (<u>registration link</u>)
  - Contact OIPI Team



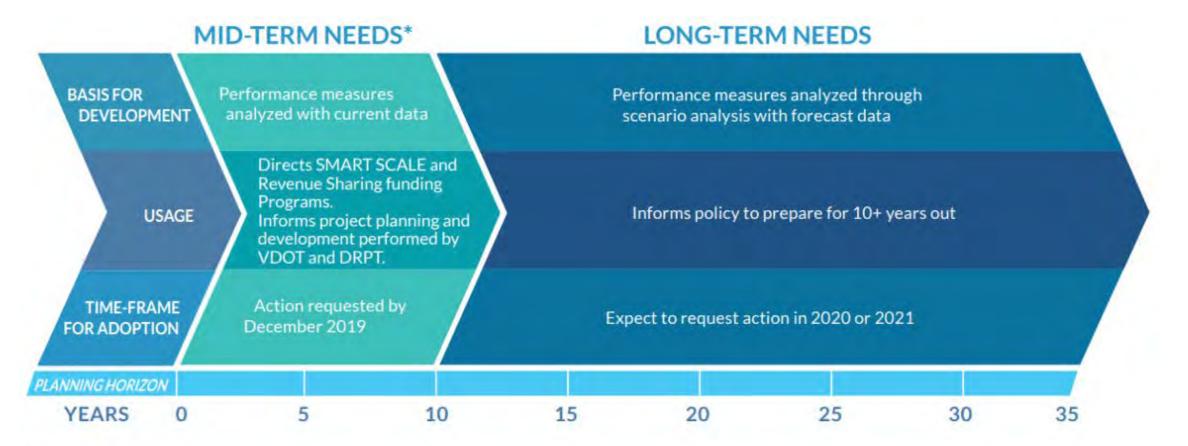


# **VTRANS MID-TERM NEEDS IDENTIFICATION PROCESS**



• What is a Mid-term Need?

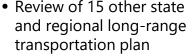
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#### \* We are here

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STEP 1	STEP 2	STEP 3
VTRANS 2040 COMPLETED IN JANUARY 2018	VTRANS LESSONS LEARNED EXERCISE FEBRUARY - MAY 2018	DEVELOP AN APPROACH FOR VTRANS UPDATE JUNE - AUGUST 2018
	PREPARATION	
• CTB resolution	<ul> <li>Interviews with numerous state agency staff</li> <li>Review of several other state and regional long-range transportation plans</li> </ul>	CTB Briefings
<u>CTB Resolution</u>	<ul> <li>Interviews with 19 state agency staff</li> </ul>	CTB Briefings
	• Review of 15 other state	



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	STEP 4	STEP 5	STEP 6	STEP 7
	DEFINE PERFORMANCE MEASURES RELATED TO THE VTRANS GOALS AND OBJECTIVES OCTOBER 2018 - APRIL 2019	COLLECT AND REVIEW DATA FOR EACH PERFORMANCE MEASURE OCTOBER 2018 - APRIL 2019	ANALYZE PERFORMANCE OCTOBER 2018 - APRIL 2019	REVIEW PERFORMANCE WITH REGIONAL STAKEHOLDERS AND RECEIVE FEEDBACK JULY - AUGUST 2019
		ANA	LYSIS	
	<ul> <li>What transportation future is VTrans meant to encourage?</li> <li>How should existing</li> </ul>	<ul> <li>What are the best data sources for each measure?</li> <li>How complete, precise, up-to-date, and accurate</li> </ul>	<ul> <li>What are appropriate performance levels and categories?</li> <li>What are the best units</li> </ul>	<ul> <li>Does the performance make sense in light of local and regional knowledge?</li> <li>Are there gaps in</li> </ul>
	conditions be measured?	are the data?	of analysis and	the analysis?
	<ul> <li>What travel, infrastructure, and modes should be included?</li> </ul>		geographical scale?	<ul> <li>How can the measures be improved?</li> </ul>
	<ul> <li>Do the measures identify meaningful variations in performance?</li> </ul>			
			1	
	• Presentation to the CTB		<u>–VTrans Urban</u> nent Area Needs	• <u>13 Regional Workshops</u>
	<ul> <li>Presentations to MPOs in spring</li> </ul>		_	
	Webinar—VTrans Needs A     Overview		ions during CTB Spring ation Meetings	
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STEP 8	STEP 9	STEP 10
ESTABLISH NEEDS THRESHOLDS AND PRODUCE DRAFT NEEDS SEPTEMBER 2019	VALIDATE WITH STAKEHOLDERS AND MAKE FINAL REVISIONS OCTOBER 2019	PRESENT TO CTB FOR APPROVAL
	APPLICATION	
<ul> <li>What level of performance generates a "Need"?</li> <li>Would resolution of the needs help Virginia achieve the VTrans goals and objectives?</li> </ul>	<ul> <li>Are Virginia's most important transportation issues flagged as Needs?</li> <li>Are there gaps?</li> </ul>	• The CTB takes action.
	WE ARE HERE	
Documentation of	CTB Briefings	

 <u>Documentation of</u> <u>changes to Mid-term Needs</u> <u>Identification Methodology</u> and thresholds

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- CTB Briefings
- Webinar—Draft VTrans Mid-term Needs

## **VT**RANS **OUTREACH AND ENGAGEMENT ACTIVITIES**\*



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## **VT**RANS **OUTREACH AND ENGAGEMENT ACTIVITIES – REGIONAL WORKSHOPS**

- VTrans Regional Workshops
  - Conducted between July 29 and August 22, 2019
  - All MPOs, PDCs, towns, cities, counties, and several other agencies were invited











## **VT**RANS **OUTREACH AND ENGAGEMENT ACTIVITIES – REGIONAL WORKSHOPS**

### • VTrans Regional Workshops

- Attended by:
  - o 83 Cities and Counties
  - o 30 Towns
  - o 15 MPO's
  - o 16 PDC's
  - o 16 Transit Agencies (several transit departments that are part of cities and counties)
  - o 4 TDM agencies
  - o 4 airports
  - o 3 universities

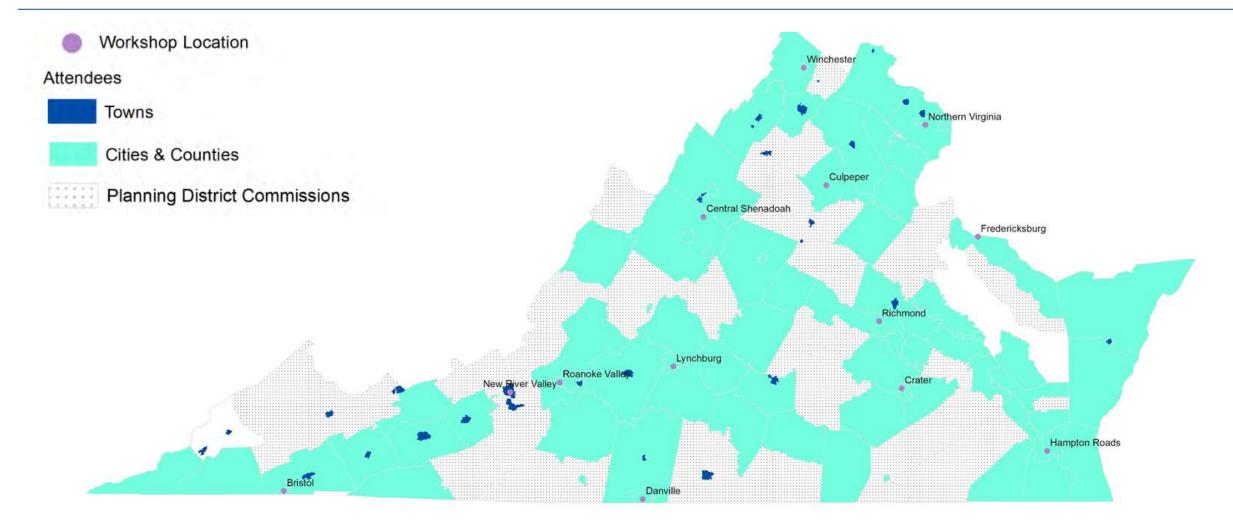
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- Various other state and regional stakeholders (Port of Virginia, VA
   Department to Aviation, TMPD, TED, VDOT residencies, etc.)
- Detailed meeting summaries were prepared and reviewed by those in attendance (<u>Weblink</u>)





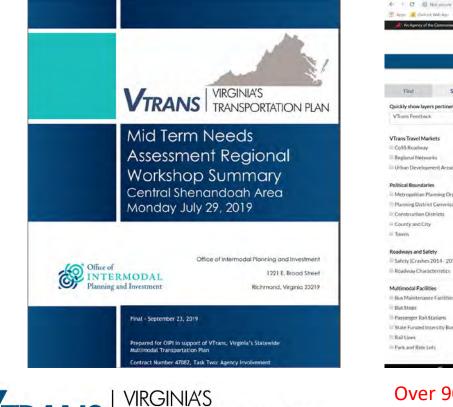
## **VT**RANS **OUTREACH AND ENGAGEMENT ACTIVITIES – REGIONAL WORKSHOP**



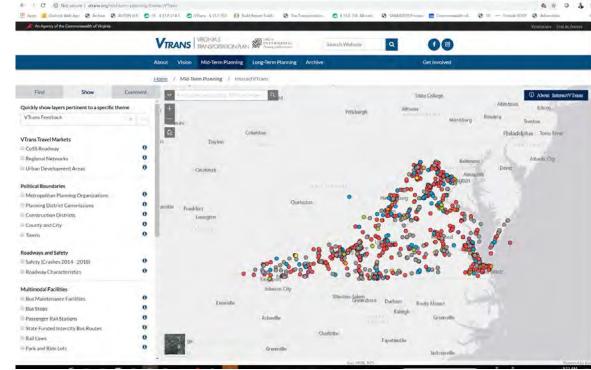


## **VT**RANS **OUTREACH AND ENGAGEMENT ACTIVITIES – REGIONAL WORKSHOP**

- We received two types of comments:
  - 1. Location-based comments
  - 2. On methods and thresholds (captured in Workshop Summary Synthesis of Comments)



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#### Over 900 comments entered in InteractVTrans

## VTRANS OUTREACH AND ENGAGEMENT ACTIVITIES – REGIONAL WORKSHOP

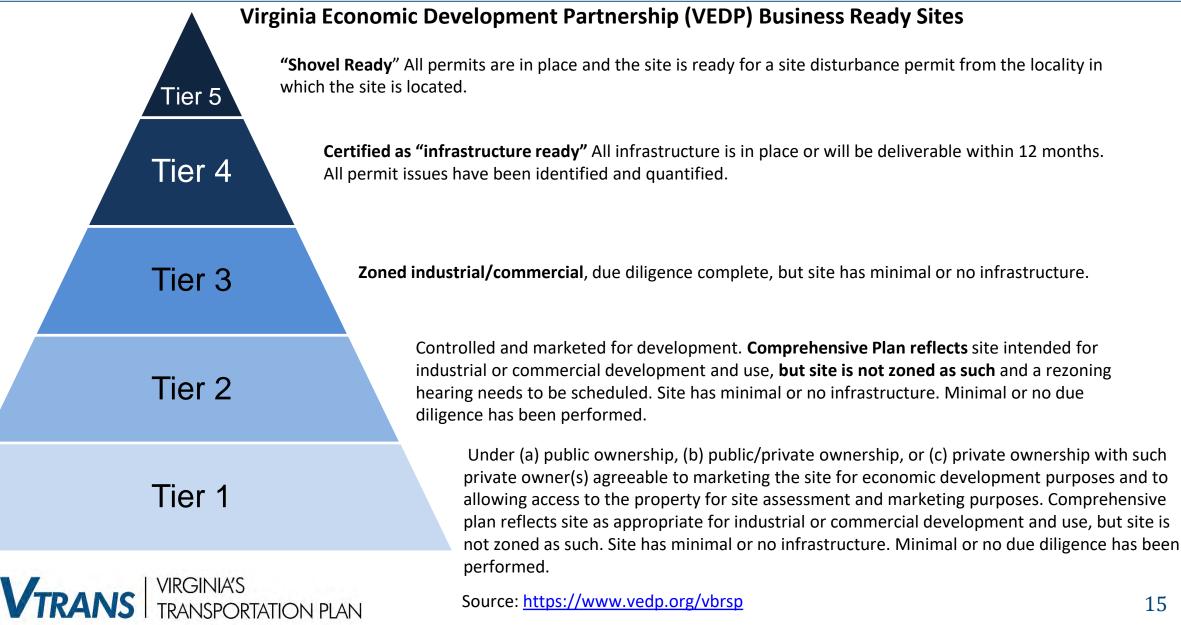
• Changes based on Regional Workshops

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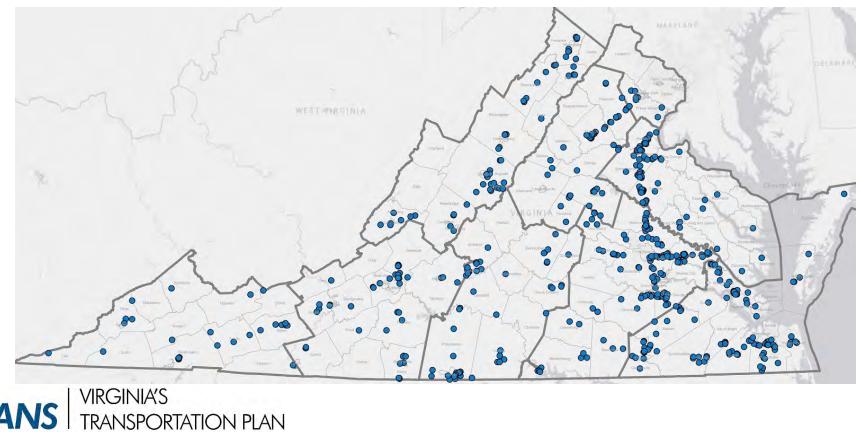
- Made over 30 changes to the VTrans measures and thresholds.
- There were several other suggestions that require more time for implementation.
- For a complete list, please refer to <u>this</u> document.

ID	Measure	Method or Threshold Shared at Regional Workshop	Comment Received	Comment Reference	Action taken	Change made for Needs Identification
1	Percent of Person-Miles Traveled in Excessively Congested Conditions	Option for PECC Thresholds - 60%, 75%, and 90% of Posted Speed Limited	Support for speed threshold of 75% of posted speed limited	CSPDC #2	Yes	Draft VTrans Needs are based on speed threshold of 75% of posted speed limited.
2	(PECC)	Time period - weekday 6 am to 8 pm.	Ensure that weekend travel is captured	Bristol #1, 33, Fredericksburg #4, 5, Hampton Roads #8, Richmond # 3	Yes	Threshold is based on weighted average of weekday and weekend.
3		Time period - weekday 6 am to 8 pm.	Ensure that the measure captures seasonality	Roanoke Valley #10, Hampton Roads #8, Bristol #1	Yes and requires more work	We confirmed that the method takes into account seasonal variations. We will need more time to develop a method to reflect large variations between seasonal and non-seasonal traffic and their impact on the need identification method.
4		Applied to Interstates and Select Limited Access Facilities	Request to clarify criteria for selecting facilities as limited-access.	Lynchburg #1, NOVA #12, Culpeper #4	Yes	Updated LAF list to include more segments (used a logic that allowed shorter segments of less than 10 miles if they connected to another LAF)

#### Example



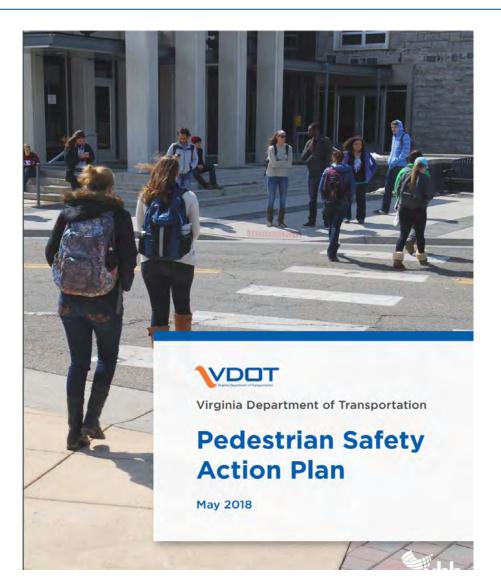
- Access to Industrial and Economic Development Areas
  - For Sites with Readiness Status 3 or higher, access from the nearest CoSS (highway, rail, port, etc.)
  - "Need to connect or improve access to and from the nearest CoSS for sites that have achieved readiness status of Tier 3 or higher in VEDP's Business Ready Site Program."



- Pedestrian Safety Improvement Corridors •
  - Based on VDOT's Pedestrian Safety Action Plan



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- Method for Identification of Need for Safety Improvements at Segments and Intersections
  - For each Construction District, the VDOT Top 100 Potential for Safety Improvement (PSI)
     Intersections and Segments
  - o Intersections and Segments meeting the following criteria:
    - Locations on PSI List 2+ years out of last five years
    - and, on Fatal/Injury PSI List 2+ years out of last five years
    - and, with at least 3+ Fatal or Injury crashes at the intersection or segment over the last five years



- Capacity Preservation: For Corridor of Statewide Significance (CoSS) and Regional Networks (RN):
  - "Preserve and enhance capacity by improving access management, reducing signals or signal phases, and implementing innovative intersection configurations."



- Transportation Demand Management
  - Limited-Access Corridor of Statewide Significance (CoSS) and other Limited-access Facilities within Regional Networks (RN):
    - "Need for new or expanded park and ride facilities, rail and public transportation services and facilities, and commuter assistance programs."
  - Non-limited Access CoSS outside of RNs:
    - "Need for new or expanded park and ride facilities, rail and public transit services and facilities, bicycle and pedestrian facilities, and commuter assistance programs."
  - Within RN, non-interstate CoSS, non-limited access CoSS, all remaining non-local streets:
    - "Need for new or expanded public transit services and facilities, rail and public transit services and facilities, bicycle and pedestrian facilities, commuter assistance programs, and emerging technologies such as travel apps and shared-mobility that help reduce Vehicle Miles Travel (VMT)."



VTrans Goal	Mid-Term Needs Measures and Categories	CoSS	Regional Network	UDA	State- wide
\$	Congestion: Percent Person Miles Traveled in Excessively Congested Conditions (PECC)*	~	~		
Economic	Congestion: Travel Time Index (TTI)**	<b>&gt;</b>	✓		
Competitiveness	Reliability: Level of Travel Time Reliability (LOTTR)	>	>		
	Reliability: Passenger and Intercity Rail On-time Performance	*			

Interstates and select limited access facilities within Regional Networks

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\*\* All of non-limited access CoSS, plus all other facilities within Regional Networks

VTrans Goal	Mid-Term Needs Measures and Categories	CoSS	Regional Network	UDA	State- wide
	Competitiveness of Transit Accessibility to Activity Centers for Workers		~		
	Non-Motorized Access to Activity Centers for Workers		~		
Accessible Places	Transit Access for Equity Emphasis Areas		~		
	Access to Industrial and Economic Development Areas (locally-determined)*				~
	UDA Area Needs (locally-determined)**			~	

\* Locations included in Virginia Economic Development Partnership's Business-Ready Site Program

\*\* Includes improvements such as bicycle and pedestrian infrastructure, circulation and access, safety, transit enhancements and access, etc.



VTrans Goal	Mid-Term Needs Measures and Categories	CoSS	Regional Network	UDA	State- wide
Calati	Locations with high number of crashes and high crash severity				~
Safety	Pedestrian Safety Improvement Locations				~
 Proactive System Management	Capacity Preservation	~	~		
Healthy, Sustainable Communities	Transportation Demand Management	~	~		





# **DRAFT NEEDS**



## 1. Method Rooted in Performance-based Planning

- "Connecting performance measures to goals and objectives through target setting provides a basis for understanding and sharing information with stakeholders and the public."
- We presented results of initial data analysis at the Regional Workshops; and,
- Modified methods, performance measures, and targets based on the feedback received.

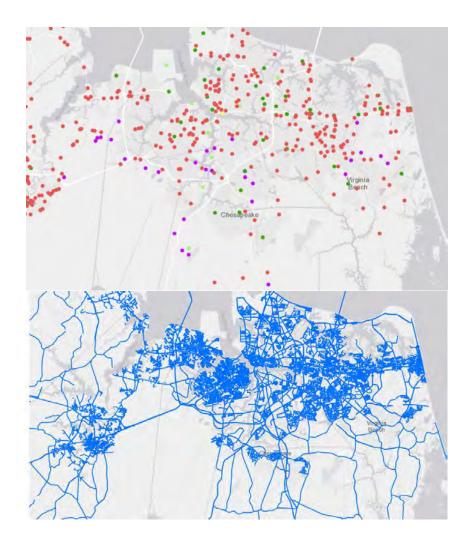


- 2. Inclusion of Industrial and Economic Development Areas (IEDA)
  - Based on Virginia Economic Development Partnership's (VEDP) <u>Business-Ready Site Program</u>
    - Established pursuant to § 2.2- 2238 C. of the Code of Virginia of 1950, as amended (the Code), to identify and assess the readiness of potential industrial or commercial sites in the Commonwealth of Virginia (the Commonwealth) for marketing for industrial or commercial economic development purposes, thereby enhancing the Commonwealth's infrastructure and promoting the Commonwealth's competitive business environment.
  - Presented a tentative idea at the Regional Workshops and supported by those in attendance



## 3. Method of Analysis and Presentation

- Needs are more specific and assigned to:
  - Nodes: Intersections, Rail Stations, Activity Center Centroid, Industrial and Economic Development Area.
  - O **Segments:** Congestion, Reliability, Transit Access, Non-motorized Access, etc.





## 3. Method of Analysis and Presentation

- Needs are binary in nature to minimize need for interpretation
- Needs are prepared to be viewed holistically

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O Example: Need for Travel Time Reliability Improvement and with Need for Safety Improvement

#### VTans2040 Needs

#### D. VA 288 Corridor Reliability and TDM

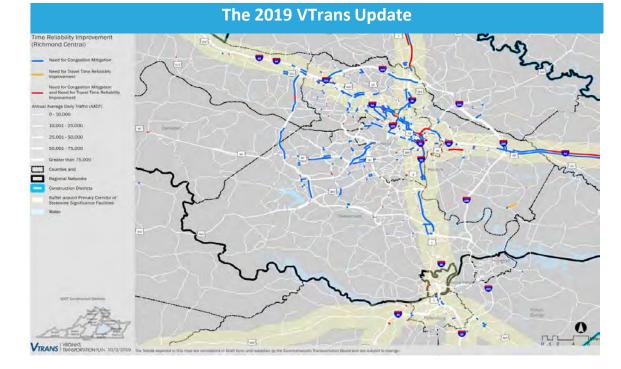


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VA 288 is a key corridor connecting activity centers such as Innsbrook and West Creek to major workforce residential areas in Chesterfield and serves as an important bypass around the region. There are some key bottlenecks with reliability issues and limited TDM options currently serving this corridor.

Innsbrook and West Creek are key regional Knowledge focused activity centers and some of the largest employment centers in the region and a sizeable portion of their workforce commutes from Chesterfield County via VA 288. Along VA 288 are key local service activity centers serving the surrounding residential populations.

The major issues along this corridor are the bottlenecks at key interchanges and the lack of TDM or other alternative mode choice options which reduces the efficiency of the corridor and the surrounding transportation system.



- 1. Draft Mid-term Needs are subject to change based on:
  - Guidance received from the Secretary and other CTB members
  - Agency and public feedback
  - Additional quality checks
  - Further analysis to address identified limitations/weaknesses





#### 2. Needs are not solutions

 A highway Congestion or Reliability Need may also be addressed by rail or transit



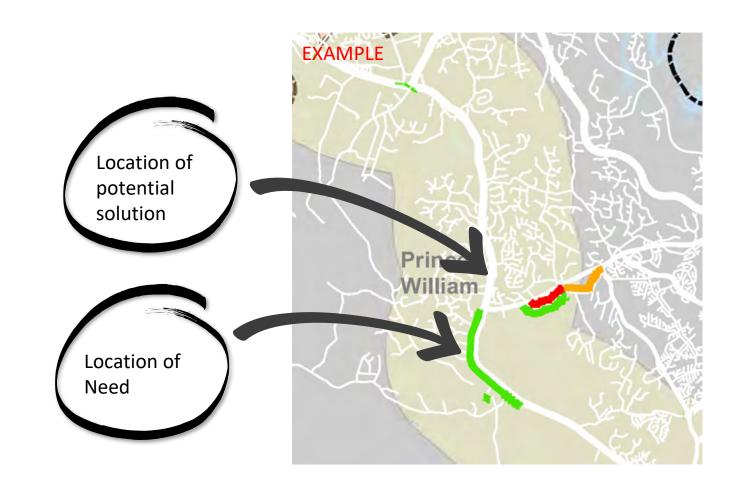
Source: Potomac Local



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- 3. Location of a Need may not necessarily be same as the location of the solution
  - A solution to a Need may be elsewhere on the same facility or on a parallel facility



- 4. Consider taking a comprehensive view of the Mid-term Needs
  - There is one document per Construction District for Mid-term Needs. It includes Needs for CoSS, RN, UDA, and Safety
  - Mid-term Needs can be viewed across travel markets and need types.
    - Example: Identify segments that have both, Need for Congestion Mitigation AND Need for Travel Time Reliability Improvements
    - Example: Identify segments that have both, Need for Travel Time Reliability Improvements AND Need for Safety Improvement



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# MID-TERM NEEDS ASSESSMENT | METHOD TO ACCESS RESULTS

## 1. Print-ready Documents

- Executive Summary and Maps displaying Vtrans Mid-term Needs
- Available by Nine (9) Construction Districts on VTrans website:
  - <u>VTrans Mid-term Needs webpage</u>
  - VTrans Online Meetings > <u>Fall Transportation Meetings</u>
- Targeted at: Users who prefer hard copies







## 2. Database to download

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- ArcGIS Map Package, description of fields (nodes and segments), and Guide to InteractVTrans
  - ArcGIS Map Package includes all Midterm Needs: Congestion, Reliability, Safety, UDA, IEDA, etc.
  - Available as one zip file on VTrans website:
    - VTrans Mid-term Needs webpage
    - VTrans Online Meetings > <u>Fall</u> <u>Transportation Meetings</u>
- Targeted at: Power users who have access to ArcGIS and want to build customized queries and develop maps

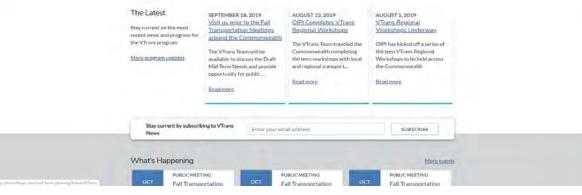
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	As part of the Needs Identification Process, OIPI staff conducted <u>Regional Workshops</u> with transportation planning stakeholders from around the Commonwealth. Comments received at these workshops, along with other feedback from public meetings and online, helped OIPI finalize the performance measures and thresholds used to Identify Needs. The updates based on this feedback can be found in the document <u>here</u> .			
	Draft VTrans Mid-term Transportation Needs			
	The Draft Mid-term Transportation Needs have been complied by VDOT Construction Districts and summary documents are available below. The Draft Needs are subject to change prior to finalization and action by the Commonwealth Transportation Board (CTB). The documents include an Executive Summary outlining the Needs Identification process, maps depicting the Draft Needs, as well as Appendices with maps showing parformance measures data.			
	<ul> <li>Richmond District</li> </ul>			
	Northern Virginia District			
	Staunton District			
	<ul> <li>Salem District</li> </ul>			
	<ul> <li>Lynchburg District.</li> </ul>			
	Hampton Roads District			
	Bristol District			
	<ul> <li>Fredericksburg District</li> </ul>			
ſ	Orling and District     Orling The District Provided And Annual Provided Annual Provi			
	Next Steps			
	The CTB will review the draft first of Needs in the fall of 2019. The final CTB-approved list of Mid-term Needs will be published by the end of 2019 and will be utilized for the next round (Round 4) of SMART SCALE, for which the application intake will occur in 2020.			
	Looking for more specific information about VTrans? Find more information on our Frequently Asked Questions page here: http://xtrana.org/net-involvest/frequently-asked-puestions			

- 3. InteractVTrans
  - User: Like ability to zoom in and out

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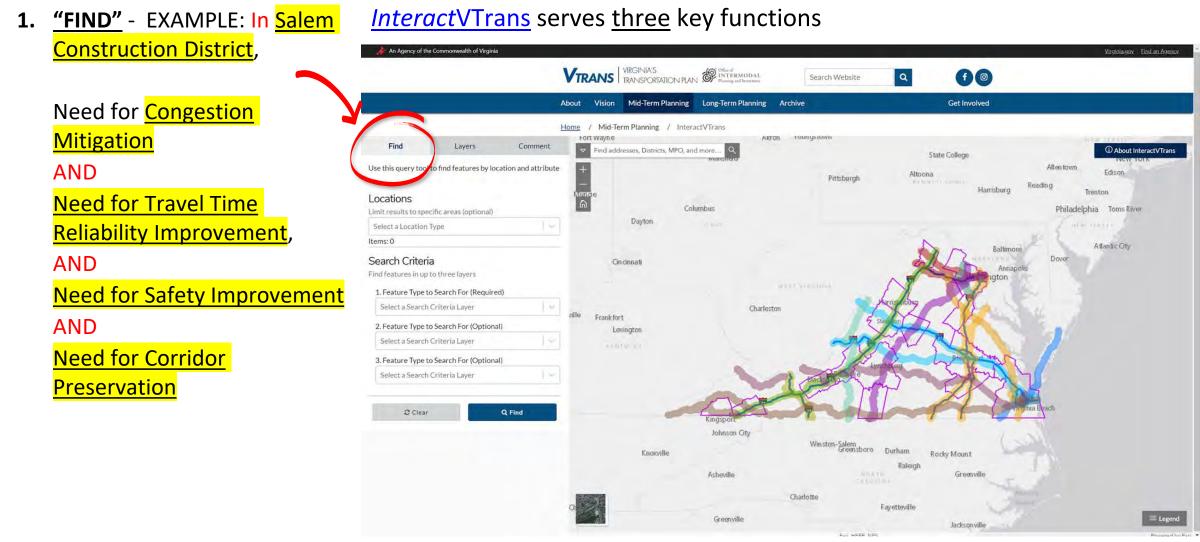


 <u>"FIND"</u> - ability to: query, filter, and download VTrans data specific to a city, county, MPO or PDC area and other areas of geographic interest

#### InteractVTrans serves three key functions

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<u>InteractVTrans</u> serves <u>three</u> key functions

 <u>"FIND"</u> - download Midterm Needs as a table or as a shapefile

> Once the Board adopts Mid-term Needs, please ensure that state agency staff and localities are using the <u>adopted</u> Mid-term Needs for development of SMART SCALE applications

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 <u>"LAYERS"</u> - turn on and off data layers of interest

#### InteractVTrans serves three key functions

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InteractVTrans serves three key functions 3. <u>"COMMENT"</u> - by dropping a point on the An Agency of the Commonwealth of Virginia Virginia.gov Find an Agen map and noting a specific VIRGINIA'S TRANSPORTATION PLAN f Q Search Website comment or idea About Vision Mid-Term Planning Long-Term Planning Archive Get Involved ome / Mid-Term Planning / InteractVTrans Find Layers Comment Allentow Q About InteractVTrans ind addresses, Districts, MPO, and more .. Altoona Pittsburgh Share a public comment on the map Harrisburg rentor Add a point to the map Columbus Philadelphia Toms River Dayton Attantic City Cincinnat Charleston Frankfort Lexington Johnson City **Submit** 2 Cancel Winston-Salem Greensboro Durham Knowille Rocky Mount Raleigh Asheville Charlotte Fayetteville Chattanood Greenville Jacks on ville  $\equiv$  Legend Esti, HERE, NPS



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**Demonstration** 



## MID-TERM NEEDS ASSESSMENT | NEXT STEPS

- Please explore datasets for accuracy and completeness
- If you see something unexpected, please let VTrans Team know:
  - comment@vtrans.org
- We expect to make some changes and refinements before Commonwealth Transportation Board action is requested





# MID-TERM NEEDS ASSESSMENT | TIMELINE

Date	VTrans Task
October 15 - November 13	Fall Transportation Meetings
October 29	Webinar: Draft Mid-term Needs and InteractVTrans
November 8	Webinar: Draft Mid-term Needs Related Q&A
December 11	December CTB Meeting: Request for CTB action
Before the end of 2019	OIPI intends to publish final approved list of Mid-Term Needs
April 1, 2020	Deadline for localities to adopt new UDAs in Comprehensive Plans
Spring-Summer 2020	SMART SCALE Round 4 proposals screened with updated Mid-Term Needs

## **OIPI Staff Contact Information:**

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