

SECRETARY of TRANSPORTATION

VTrans – Mid-term Needs and Next Steps

Jitender Ramchandani, AICP, PMP

Joint Annual Planning and Programming/MPO Quarterly Coordination Meeting

Some Now.com











PRESENTATION TODAY

- 2019 Mid-term Needs
 - CTB Action
 - Methods to Access
- Considerations for SMART SCALE
- Tiering of Mid-term Needs
- Considerations for Future Updates of Mid-term Needs





2019 MID-TERM NEEDS



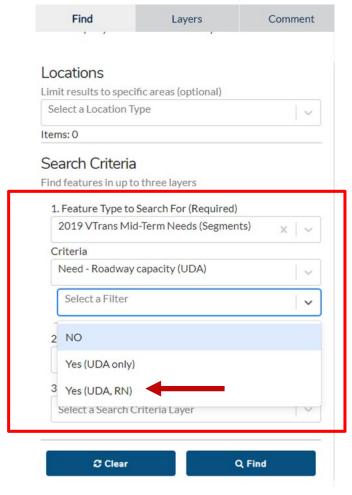
- The CTB resolved that for the purposes of SMART SCALE, identified UDA Needs shall also be considered RN Needs if RN Congestion Needs are 20 miles or fewer.
- For the 2019 Update of the VTrans Mid-Term Needs, this applies to the following Regional Networks:
 - Bristol Region
 - Charlottesville Region
 - Danville Region
 - Harrisonburg Region

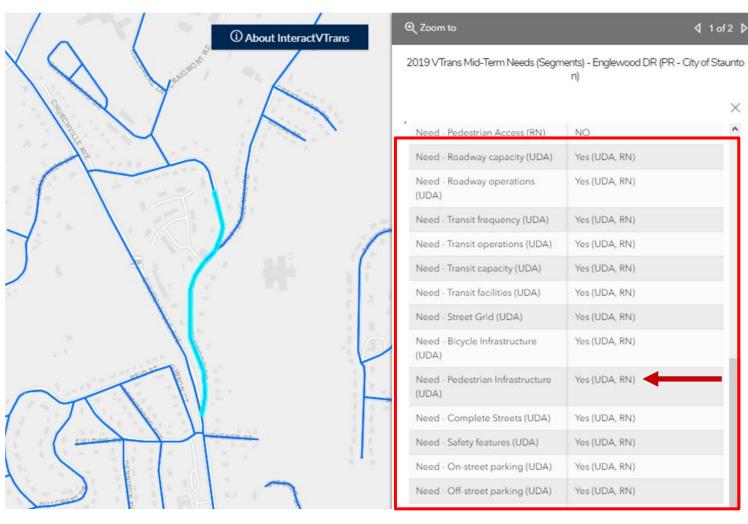
- Kingsport Region
- New River Valley Region
- Staunton-Augusta-Waynesboro Region
- Winchester Region

Note: VTrans Travel Markets determine funding eligibility (HPP or DGP) and eligible applicants (Regional Entities, Locality, Transit Agency) per the SMART SCALE policy guide



InteractVTrans changes for RN-eligible UDA Needs:





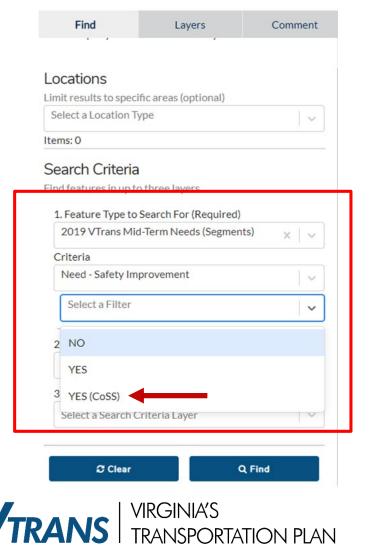


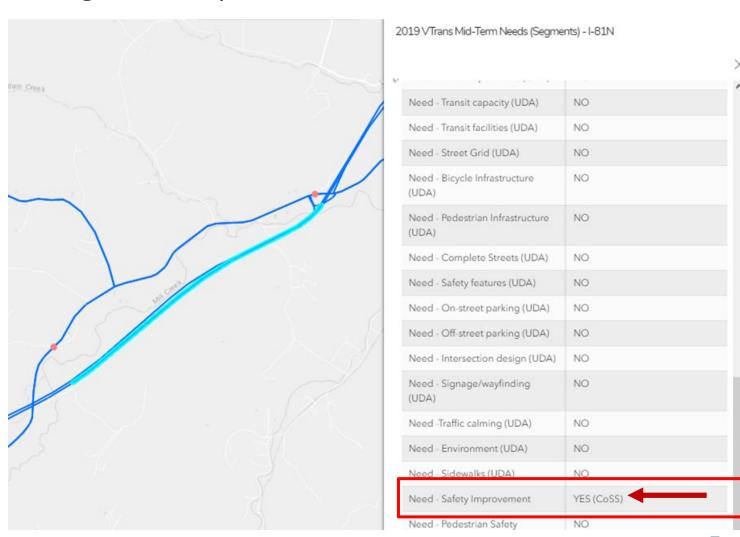
- The CTB resolved that for SMART SCALE, the identified Safety Needs on CoSS roadways shall also be considered CoSS Need
- Similar to Round 3, localities can submit safety studies to get project funding applications screened in for the Safety travel market.

Note: VTrans Travel Markets determine funding eligibility (HPP or DGP) and eligible applicants (Regional Entities, Locality, Transit Agency) per the SMART SCALE policy guide



InteractVTrans changes for CoSS-eligible Safety Needs:





MID-TERM NEEDS | METHODS TO ACCESS NEEDS

	PRINT-READY DOCUMENTS	INTERACTVTRANS	DATABASE – ARCMAP PACKAGE
OPTION	Executive Summary and maps showing Mid-term Needs Methodology Report	 InteractVTrans Find / download Needs by geography Overlay additional layers, such as crashes Locate where multiple Needs exist on a Segment Identify Segment and Node IDs for use in Smart Portal 	Download
TARGET AUDIENCE	 Policy makers, MPO and PDC Directors, Administrators, etc. 	Planners and engineers	 Power users / analysts with access to ArcGIS and a need to query and customize information





SMART SCALE CONSIDERATIONS



MID-TERM NEEDS | SMART SCALE CONSIDERATIONS

SMART SCALE Screening:

Eligibility

Is the proposed project a capacity or operational improvement for highway, transit, bicycle, pedestrian, or transportation demand management?

Is the applicant an eligible entity?

Readiness

Does the proposed project meet required level of planning and supporting documentation needed for projects to be considered and evaluated for SMART SCALE funding?

VTrans Needs

Is the proposed project or strategy consistent with the assessment of capacity needs for Corridors of Statewide Significance, Regional Networks, Urban Development Areas, and Safety undertaken in VTrans?





MID-TERM NEEDS | SMART SCALE CONSIDERATIONS



SEGMENT IDs RANGE: 100,001-355,503

NODE IDs RANGE: 400,001-404,670



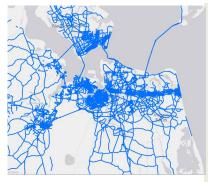
- View and search for locations with Needs
- 2. Identify context for a proposed improvement by identifying presence of transit, rail, and other features
- 3. Select locations that have multiple overlapping Needs

 With established Need and location, initiate funding application



MID-TERM NEEDS | CONVERSION FOR SMART PORTAL - SEGMENTS

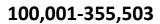




VTrans Mid-Term Needs (Segments)

- Congestion (CoSS, RN)
- Reliability (CoSS, RN)
- Capacity Preservation (CoSS, RN)
- TDM (CoSS, RN)
- Transit Access for Equity Emphasis Areas (RN)
- Bicycle and Pedestrian Access (RN)
- UDA multiple categories (RN, UDA)
- Safety Improvement (CoSS, Safety)
- Pedestrian Safety Improvement (Safety)







Corridors of Statewide Significance

Segments: Congestion, Reliability, Capacity Preservation, TDM, Safety (CoSS)



Regional Networks

Segments: Congestion, Reliability, Capacity Preservation, TDM, Transit Equity, Bicycle & Pedestrian Access, various UDA Needs (UDA, RN)



Urban Development Areas

- Segments: various UDA Needs (UDA Only)



Safety

Segments: Safety (non-CoSS),
Pedestrian Safety Improvement



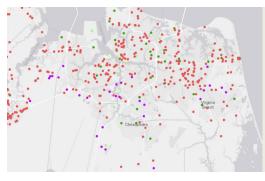
MID-TERM NEEDS | CONVERSION FOR SMART PORTAL - NODES



400757

Montview

Activity Center (Freight



Need Node ID

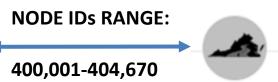
Node Name

Node Type

Status 3 or higher

VTrans Mid-Term Needs (Nodes)

- Rail On-time Performance (CoSS)
- Transit Access (RN)
- Safety Improvement (CoSS, Safety)
- Industrial and Economic Development Areas (RN, UDA)





Corridors of Statewide Significance

- Nodes: Rail, Safety (CoSS)



Regional Networks

- Nodes: IEDA (UDA, RN), Transit

Access



Urban Development Areas

- Nodes: IEDA (UDA only)



Example of how Node-related Needs are depicted on InteractVTrans

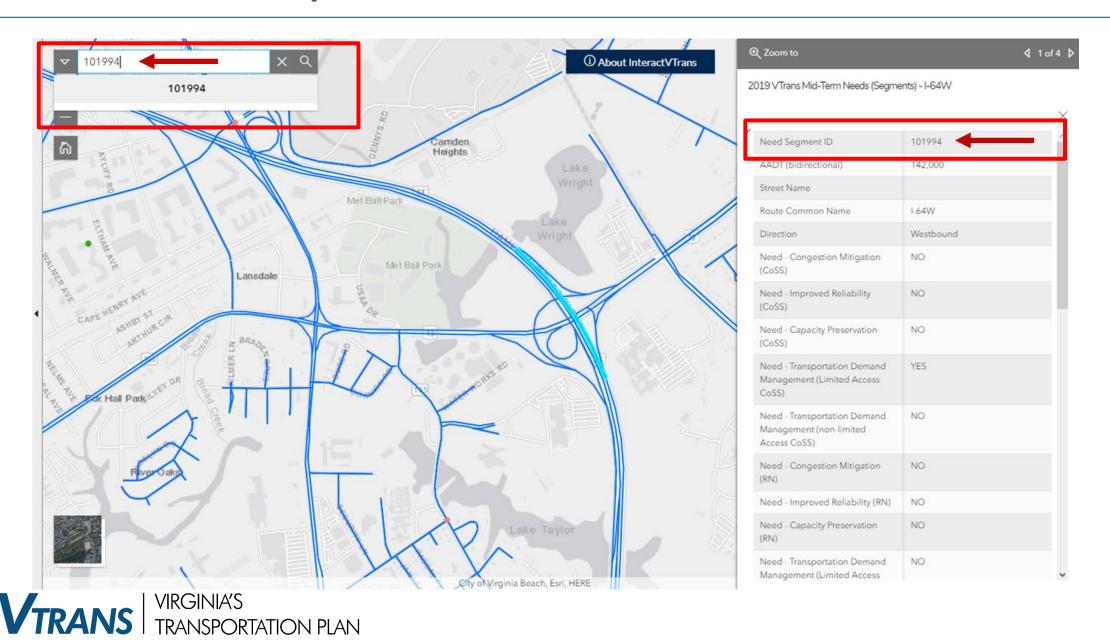


Safety

- Nodes: Safety (non-CoSS)



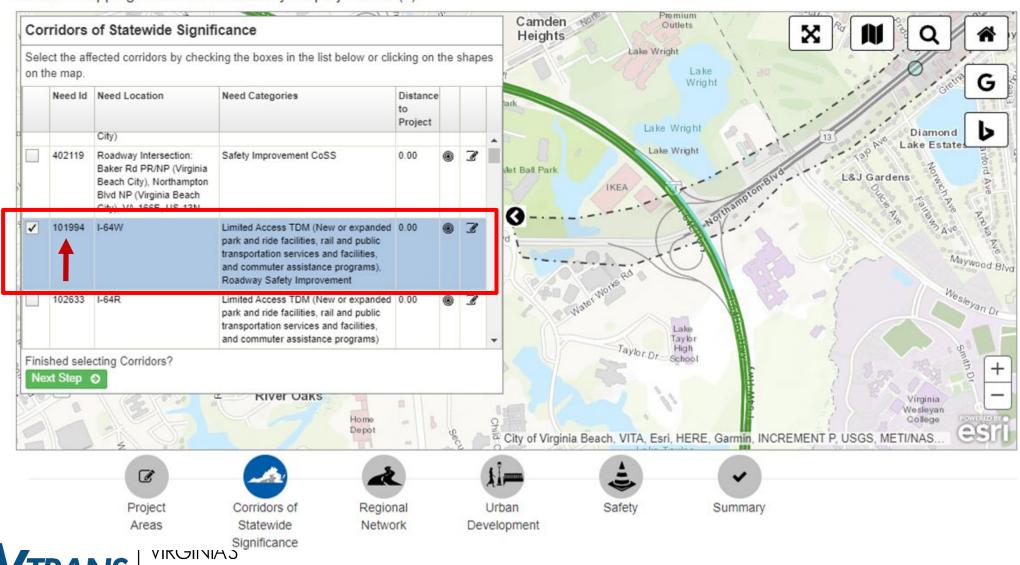
MID-TERM NEEDS | NEED ID INTEROPERABILITY



MID-TERM NEEDS | NEED ID INTEROPERABILITY

Use the mapping tool below to locate your project area(s).

TRANSPORTATION PLAN



MID-TERM NEEDS | SMART SCALE CONSIDERATIONS

 Be sure to select not only a segment or node (location) but also include the Need in project justification

Need Id	Need Location	Need Categories	Justification
103603	I-64E	Congestion, Limited Access TDM (New or expanded park and ride facilities, rail and p transportation services and facilities, and commuter assistance programs)	ublic Project will improve Congestion by extending accel/decel lanes at Exit 199
Regional	Network		
Need Id	Need Location	Need Categories	Justification
100424	FR-157N: N Military Hwy	Bicycle Access, Pedestrian Access, Non-limited Access TDM (New or expanded publi transit services and facilities, rail and public transit services and facilities, bicycle and pedestrian facilities, commuter assistance programs, and emerging technologies such travel apps and shared-mobility)	signals, at intersection with off-ramp at exit 199.
Urban De	evelopment		
Need Id	Need Location	Need Categories	Justification
No Urban E	Development needs included.		
0.51			
Safety		Need Categories	Justification
Need Id	Need Location		

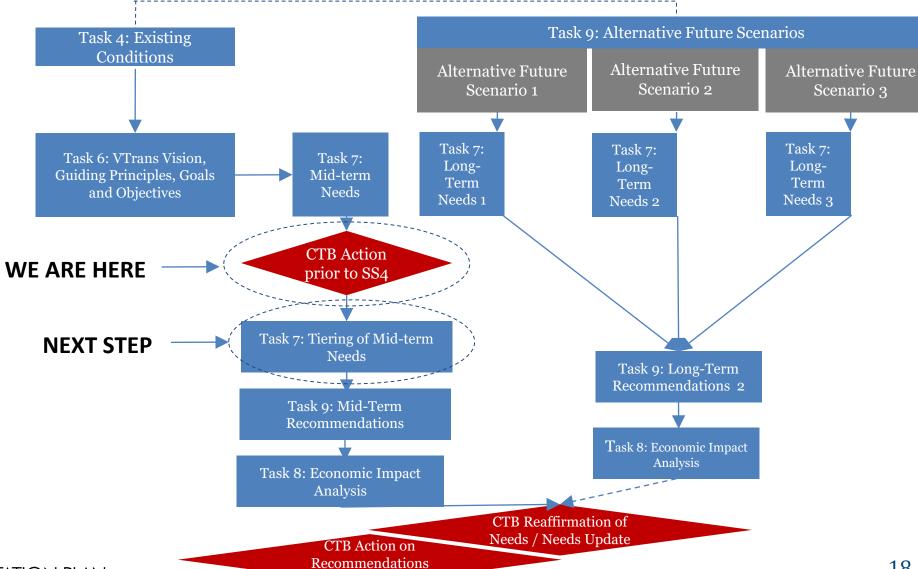




TIERING OF MID-TERM NEEDS



VTRANS WORKFLOW



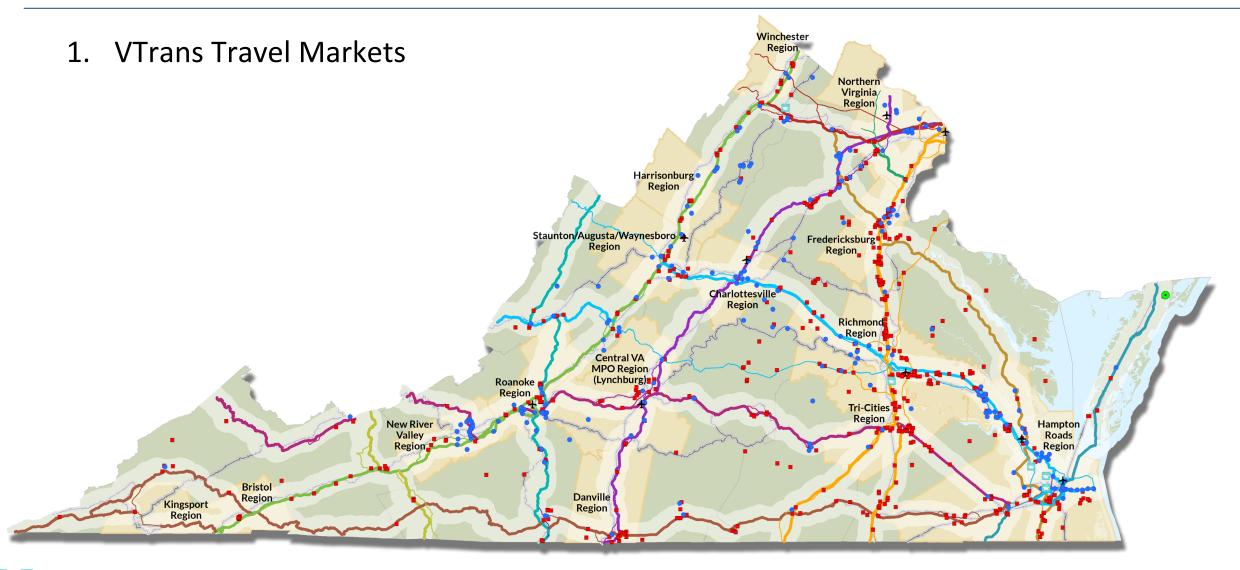
Notes:

- Please refer to the VTrans Scope of Services for detailed descriptions of the depicted Tasks.
- Only tasks on the project critical path are shown.

TIERING OF VTRANS NEEDS | INTENT AND PURPOSE

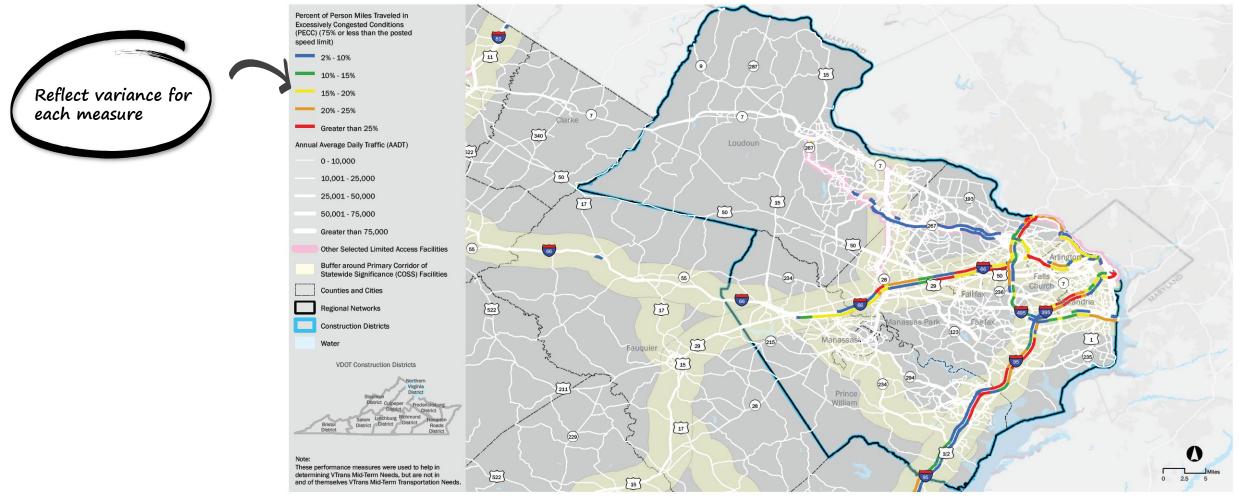
- 1. Differentiate critical needs from less-pressing needs
 - Provide more nuance, as opposed to a binary selection
- 2. Inform planning decisions for capacity and safety related investments
- 3. Provide opportunities to improve coordination among different program areas
 - Allow for a more comprehensive overview of the VTrans Mid-term Needs by including existing and planned activities
- 4. Ensure that prioritization is transparent, replicable, and reple





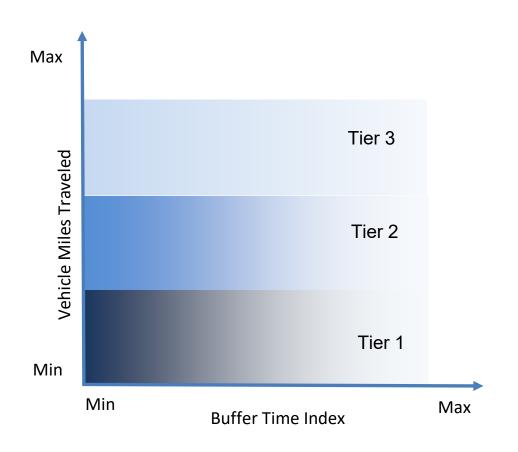


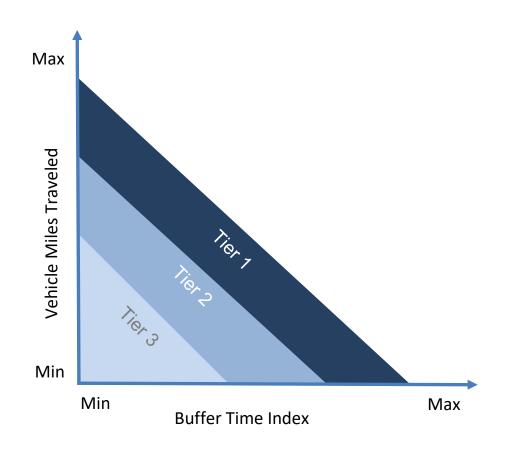
2. Variance within VTrans Mid-term Needs Performance Measures





3. Number of facility or service users (e.g. vehicle or person miles traveled, volume)







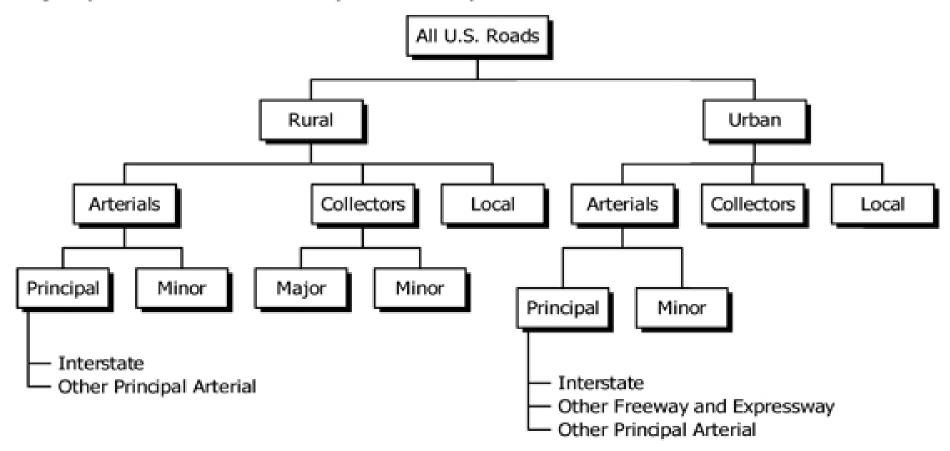
4. Planned, anticipated, or committed State of Good investments



Source: **Bristol Herald Courier**

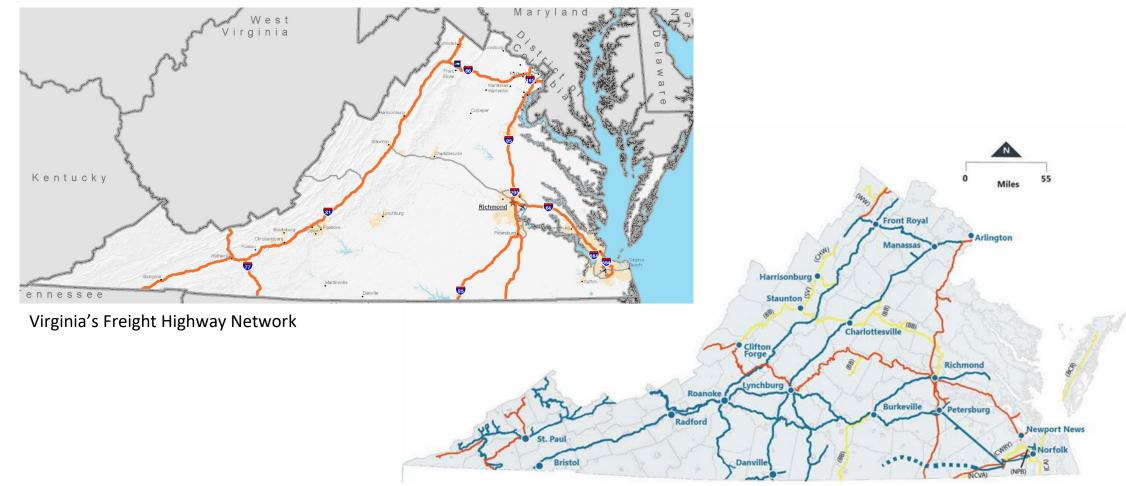


5. Existing roadway functional classification system, railroad classes, transit route types (circulator, distributor)





6. Designated facilities on the Freight Network for Virginia







CONSIDERATIONS FOR FUTURE UPDATES OF MID-TERM NEEDS



- Continued work on refinement to VTrans Mid-term Needs Identification Methodology
 - More than 16 different opportunities recorded from feedback at workshops, from state agencies, and others
 - OIPI plans to explore options for improvements prior to the next Needs update



- Continued work on refinements to VTrans Mid-term Needs Identification Methodology
 - Seasonal Variations
 - Non-recurring Events
 - Construction Zones and Activities
 - Committed Improvements











- Continued work on refinement to VTrans Mid-term Needs Identification Methodology
 - Transit and Rail Ridership
 - Transit and Rail Quality of Current Service Offered
 - Travel time reliability
 - Trip chaining accessibility Needs
 - Quality of services offered (frequency, service standards, etc)



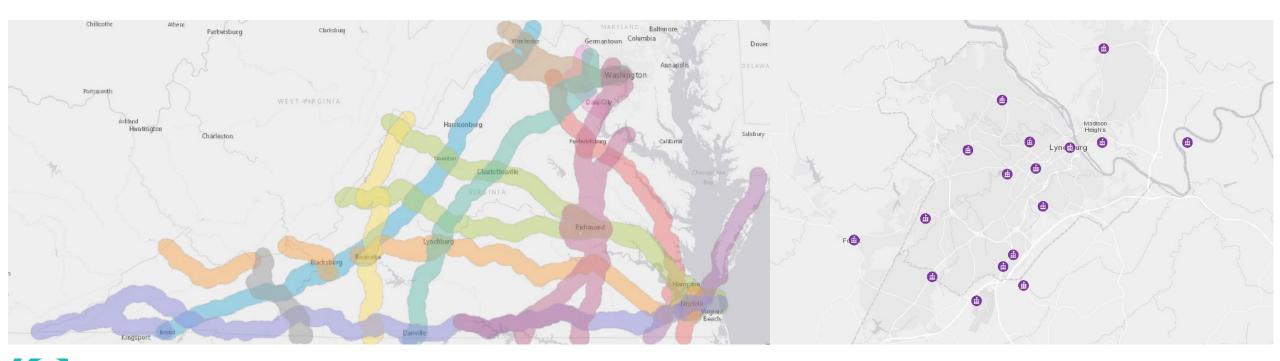






Source: City of Suffolk

- Evaluation of Criteria used for designation of Corridors of Statewide Significance
 - Requests in 2019 along Rt 288 in Chesterfield, and Rt 360 in Hanover
- Data-driven methods to identify Regional Network Activity Centers





QUESTIONS/DISCUSSION

OIPI Staff Contact Information:

Name	Phone	Email
Jitender Ramchandani	804.786.0868	Jitender.Ramchandani@oipi.Virginia.gov
Katie Schwing	804.786.2362	Kathryn.Schwing@oipi.Virginia.gov
Chris Wichman	804.786.2366	Chris.Wichman@oipi.Virginia.gov







