Winchester Frederick County (WinFred) MPO TECHNICAL ADVISORY COMMITTEE (TAC) Meeting

December 5, 2017 - 10:00 a.m.

Frederick County Administrative Offices - First Floor Conference Room 107 N. Kent Street, Winchester, VA

AGENDA

- 1. Administrative Items:
 - a) Welcome and Introductions
 - b) Review and approval of the November 7, 2017 Technical Advisory Committee Meeting Minutes (*Attached*)
- 2. Public Comment Period
- 3. Designation of Critical Urban Freight Corridors John Madera, NSVRC (20 minutes)

This item was tabled in November for further review and consideration of additional corridors.

Action: Recommendation of proposed corridors for endorsement by the Policy Board for VDOT certification.

- 4. Upcoming Meeting Schedule (MPO Meetings are held at the Frederick County Administrative Offices):
 - Project Steering Meeting: TBA
 - Policy Board: December 20, 2017 @ 10 a.m
 - Technical Advisory Committee: January meeting TBD
- 5. VDOT/DRPT Updates (5 minutes)
- 6. Staff Project Updates (5 minutes)
- 7. Other Business (5 minutes)
- 9. Adjourn

Definition of Acronyms on next page

- CAC- Citizen Advisory Committee- Serves as an advisory committee to the MPO Policy Board to solicit public input and provide citizen perspective on MPO projects. Conducts public hearings and public input sessions on selected projects at the direction of the Policy Board.
- **CLRP** Constrained Long Range Plan A fiscally-constrained list of projects drawn from the Vision Plan element of the LRTP. All CLRP projects must have an estimated cost and a revenue source identified.
- **CMAQ** Congestion Mitigation and Air Quality Improvement (CMAQ) Program was implemented to support surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief.
- FHWA Federal Highway Administration Within the US Department of Transportation, FHWA is responsible for highway issues, including federal laws and regulations related to metropolitan transportation planning.
- FTA Federal Transit Administration- within the US Department of Transportation, FTA is responsible for public transit issues, including federal laws and regulations related to metropolitan transportation planning.
- FTA Section 5303 Funds This program supports transit planning expenses to support cooperative, continuous, and comprehensive planning for making transportation investment decisions in metropolitan planning areas.
- FTA Section 5310 Transportation for Elderly Persons and Persons with Disabilities The goal of the Section 5310 Program is to provide assistance in meeting the special transportation needs of elderly persons and persons with disabilities. The program is designed to supplement other FTA or assistance programs by funding transportation projects for elderly person and persons with disabilities in all areas urbanized, small urban, and rural.
- **HSIP** Highway Safety Improvement Program The overall purpose of this program is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads through the implementation of infrastructure-related highway safety improvements.
- **LRTP** Long Range Transportation Plan- Developed and approved by the MPO, the LRTP is a regional plan that includes all transportation projects and programs that the MPO realistically anticipates can be implemented over the next 25 years. LRTP's may include a VISION PLAN, which is a list of all projects (a "wish list"), but must also include a CLRP. In order to receive federal funding, transportation projects must be included in the LRTP and the TIP.
- The FAST Act On December 4, 2015, President Obama signed the Fixing America's Surface Transportation (FAST) Act (Pub. L. No. 114-94) into law—the first federal law in over a decade to provide long-term funding certainty for surface transportation infrastructure planning and investment. The FAST Act authorizes \$305 billion over fiscal years 2016 through 2020 for highway, highway and motor vehicle safety, public transportation, motor carrier safety, hazardous materials safety, rail, and research, technology, and statistics programs. The FAST Act maintains our focus on safety, keeps intact the established structure of the various highway-related programs we manage, continues efforts to streamline project delivery and, for the first time, provides a dedicated source of federal dollars for freight projects. With the enactment of the FAST Act, states and local governments are now moving forward with critical transportation projects with the confidence that they will have a federal partner over the long term.
- **NHPP-** National Highway Performance Program The NHPP provides support for the condition and performance of the National Highway System (NHS), for the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State's asset management plan for the NHS.
- STP Funds Surface Transportation Program funds are Federal Funds disbursed through State DOT's for Surface Transportation projects.
- TAC- Technical Advisory Committee- Serves in an advisory capacity to the Policy Board of the MPO. The TAC works with MPO staff to formulate the UPWP, the LRTP, and provides technical review and assistance on numerous MPO projects undertaken as called out in the UPWP.
- **TIP** Transportation Improvement Program Approved by the MPO Policy Board, it is a list of projects and programs that will be implemented over the next six years. In order to receive federal funding, transportation projects must be included in the Constrained Long Range Plan and the TIP. Amendments are major changes to a project included in the CLRP, TIP or STIP that are not Administrative Modifications.
- **UPWP** Unified Planning Work Program- MPOs must adopt and implement an annual work program and budget known as the Unified Planning Work Program (UPWP). The UPWP identifies all activities to be undertaken by the MPO during the fiscal year which begins July 1st and ends the following June 30th.
- **VDOT Virginia Department of Transportation -** Agency responsible for statewide transportation facility planning, construction, and maintenance. VDOT is separate from the Virginia Department of Rail and Public Transportation (VDRPT).

WinFred METROPOLITAN PLANNING ORGANIZATION

400 Kendrick Lane, Suite E, Front Royal, Virginia 22630 Phone: 540-636-8800 www.winfredmpo.org

Technical Advisory Committee Minutes: November 7, 2017 @ 10 a.m.

Frederick County Administrative Offices 107 North Kent Street, Winchester, VA First Floor Conference Room

Member Jurisdiction Representatives					
	Frederick County		VDRPT		Staff
	Patrick Barker	✓	Ciara Williams	✓	Brandon Davis
✓	John Bishop	✓	Todd Horsley	✓	John Madera
✓	Mike Ruddy		Winchester Airport	✓	Karen Taylor
	Kris Tierney		Serena 'Renny' Manuel	✓	Becky Sandretzky
	Stephens City		Winchester Transit		Others
✓	Mike Majher		Renee Wells	✓	Jeremy Lattimer, DRPT
	VDOT		Winchester		
✓	Terry Short	✓	Perry Eisenach		
	Non-Voting		Justin Hall		
	Mack Frost, FHWA	✓	Tim Youmans		
	Tony Cho, FTA	✓	Shawn Hershberger		
	Rusty Harrington, VA				
	Dept. of Aviation				

Winchester Frederick County (WinFred) MPO TECHNICAL ADVISORY COMMITTEE (TAC) Meeting Minutes

November 7, 2017 - 10:00 a.m.

Frederick County Administrative Offices - First Floor Conference Room 107 N. Kent Street, Winchester, VA

1. Administrative Items:

- a) Welcome and Introductions Chairman Youmans welcomed everyone to the meeting followed by a roundtable of introductions.
- b) Review and approval of the October 3, 2017 Technical Advisory Committee Meeting Minutes Motion made by Mr. Eisenach approving the minutes; motion seconded by Mr. Ruddy. Motion carried.
- **2. Public Comment Period** None reported.

3. Virginia Statewide Rail Plan

Jeremy Lattimer with DRPT presented the Executive Summary of the Virginia Statewide Rail Plan. A copy of the presentation is attached to the minutes. Following Mr. Lattimer's presentation, a brief Q&A ensued. Mr. Short requested that DRPT add the following to the Plan "Further analysis of truck to rail diversion for I-81".

4. Designation of Critical Urban Freight Corridors

Mr. Madera presented a PPT on this agenda item (attached to the minutes). Discussion followed with the following additions to the map: Route 11 to Exit 317 Interchange to Old Charlestown Road, Exit 310 to Route 522, Exit 313 Interchange via Route 522 to the VA Inland Port and Route 522 to Indian Hollow Road. Following discussion, a motion was made by Mr. Bishop to table the agenda item until the December TAC meeting and request staff to update the map with the discussed additions. Motion seconded by Mr. Ruddy. Motion carried.

- 5. Upcoming Meeting Schedule (MPO Meetings are held at the Frederick County Administrative Offices):
 - Project Steering Meeting: TBA
 - Policy Board: November 15, 2017 @ 10 a.m./December meeting TBD
 - Technical Advisory Committee: December 5, 2017 @ 10 a.m.

6. VDOT/DRPT Updates

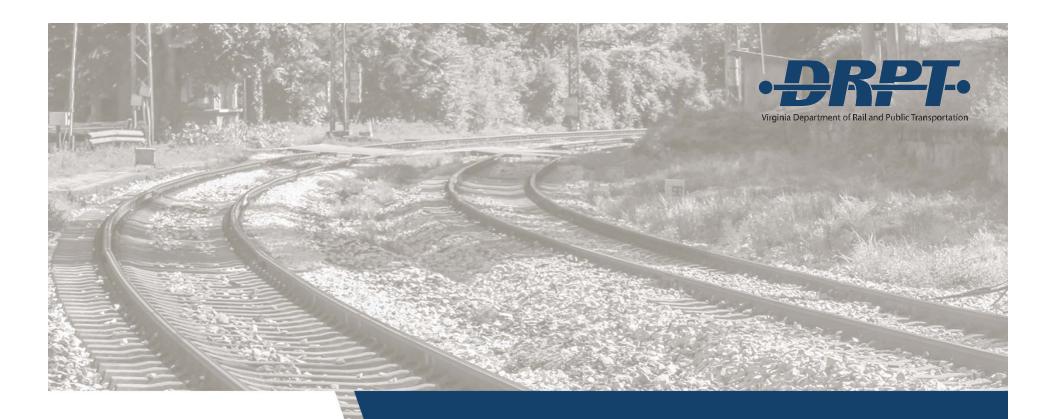
Mr. Short gave an update on the SmartScale changes – not many changes from the original recommendation; congestion mitigation score length was going to be a variable on how congestion was going to be scored – this condition was struck which is good news for the WinFred MPO. Urban area went from 8 to 10 applications. Areas with a population of under 200,000 can submit up to 4 applications. A new technical guide for SmartScale with be available prior to the Thanksgiving Holiday. Mr. Horsley gave a DRPT update – he stated that the state capital and operating online grant submission opens on December 1 until February 1, 2018. The Virginia Breeze Charter Bus will begin on December 1.

- 7. Staff Project Updates Mr. Madera stated that the MPO Project Steering Committee met twice in October in regards to the Exit 317 Study re-scoping and the Route 11 Corridor Study. Mr. Short stated that in regards to the Route 11 study, the consultant is proceeding with the analysis of intersection counts and timing signal date for existing conditions.
- **8.** Other Business None reported.

Meeting adjourned at 11 a.m.

Glossary of Acronyms

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Virginia Rail Plan

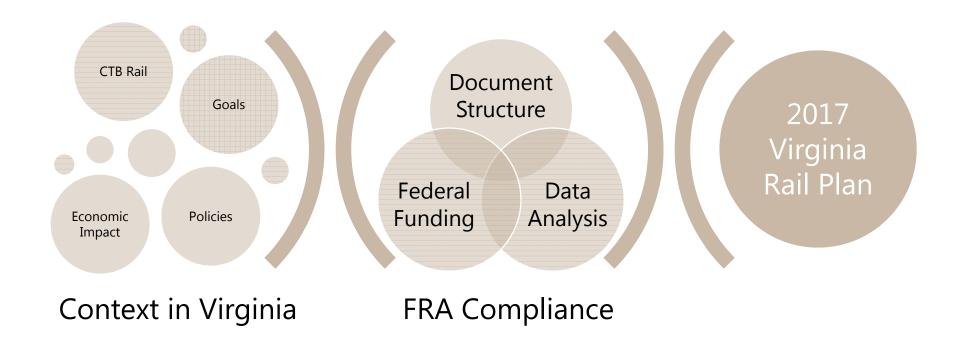
October 23, 2017

Michael Todd, DRPT

Rail Enhancement & Planning



Introduction and Purpose

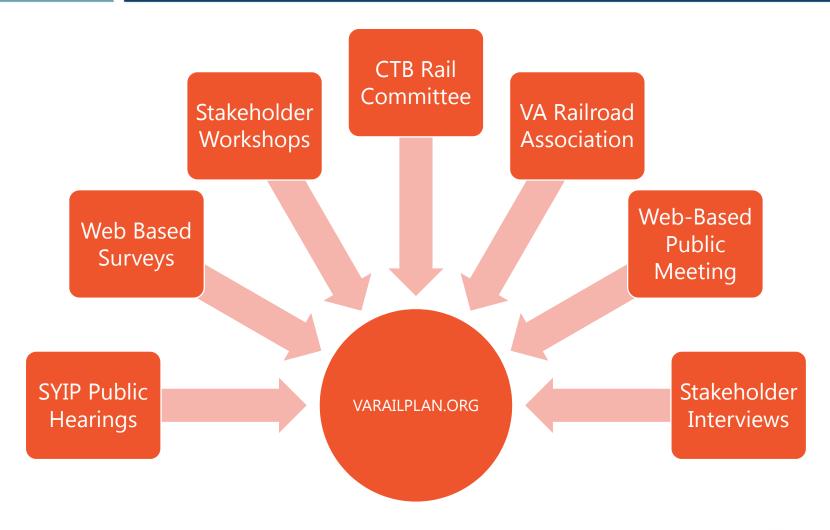






VIRGINIA STATEWIDE RAIL PLAN

Outreach







Benefits of Rail in Virginia

GROW THE ECONOMY

RAIL SERVICES DRIVE 6% OF VIRGINIA'S TOTAL ECONOMY.
MORE THAN 6,000 JOBS CREATED DIRECTLY BY RAIL NETWORK



\$2.2 BILLION in annual benefits



about 9 cents per ton-mile of rail use



\$190 MILLION in annual benefits



about 46 cents per passenger-mile of rail use

Benefits are largely derived from savings from diverting freight and passengers from highways to rail and includes congestion savings and crash reduction benefits.

BREATHE EASIER

3M TONS OF CO2 EMISSIONS AVOIDED (6.4% OF TOTAL IN VIRGINIA PER YEAR)



On average, railroads are **four times** more fuel efficient than trucks



Moving freight by rail instead of truck generates **75% less** greenhouse gas emissions



The total estimated level of rail service in Virginia in 2015 was about **25 billion** ton-miles

TRAVEL SAFE

18 LIVES SAVED AND 3,000 CRASHES AVOIDED EACH YEAR



Shipping by rail avoids about **1.7 billion miles** of truck travel in Virginia



Passenger travel by rail avoids about **271 million miles** of personal driving in Virginia

SAVE MONEY

\$123M PAVEMENT MAINTENANCE SAVINGS (6% OF ANNUAL VDOT MAINTENANCE BUDGET)

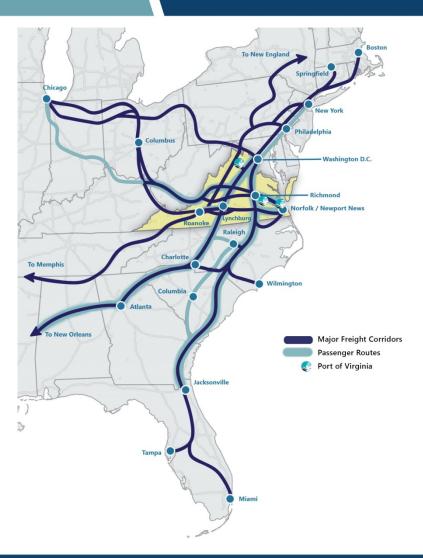








Benefits Continued



- Connects to National and International Markets
- Moves both people and goods
- Serves Port of Virginia







RAIL INDUSTRY DRIVERS



Growth in Intermodal Traffic



Demographic Changes



Changes in Energy Production: Oil, Gas and Coal



Aging Infrastructure



Congestion



Environmental



Changes in Rail Governance Framework











Freight tonnage is expected to grow by 50% in Virginia by 2040

Movement by rail will increase by 14%; additional rail investment can enhance rail's modal share and keep additional freight from congested roadways.

FREIGHT



Port of Virginia Shipments

TEUs anticipated to more than triple from 2.1 M in 2012 to 7.2 M in 2040.

Capacity to move 45% by rail in 2040, up from 35% today.



Expected Evolution of Major Freight Markets

Growth in intermodal traffic will impact operational approach to major freight corridors. Intermodal movement relies on tight timetables and high demand for on-time performance.



FREIGHT







Freight expected t in Virgi

Movement by 14%; additio can enhance and keep add conges



Population concentrated in the urban crescent

Since 2010, the share of Virginia's total population growth in the urban crescent rose to 93 percent, up from 81 percent between 2000 and 2006.

PASSENGER



Population is growing older - 1 in 8 Virginians is 65 or older.

and the largest concentration of Virginia's aging population lives in the urban crescent. [DC2RVA Purpose and Need]



Increasing demand for public transportation

Urban environments conducive to public transportation and an older demograhic create more reliance on multi-modal options.

FREIGHT





Freight expected t in Virgi

Movement by 14%; additio can enhance and keep add conges



Population co in the urbar

Since 2010, the sh total population urban crescent ros up from 81 per 2000 and







PASSENGER





NETWORK SIGNIFICANCE



The Washington, D.C. metropolitan area has the nation's highest rate of congestion.

The Hampton Roads area also experiences high levels of congestion.

[Measuring Traffic Congestion in Virginia - Virginia Performs, Virginia.Gov)



Vehicle use per road-mile has been increasing for decades.

Since the mid-1960s Virginia has experienced a decline in relative capacity as both population and state gross domestic product (GSP) have steadily risen.

[Measuring Traffic Congestion in Virginia - Virginia Performs, Virginia.Gov]



Economic Growth

Virginia's rail network is a key link between two mega-regions, the Northeast mega-region and the Piedmont Atlantic megaregion to the south. Most of the nation's population growth and economic expansion is occurring in ten emerging mega-regions.





Vision



VTrans Vision

Good for business, good for communities, and good to go.



Virginia's rail network is a valuable asset that drives the economy, reduces congestion, improves safety, and saves taxpayer money. Continued investment in rail infrastructure will ensure the mission and vision of the Commonwealth's transportation network is achieved.



Goals and objectives link visions to prioritize investments in rail.





WASHINGTON TO NORTH CAROLINA CORRIDOR

- CSX owned/operated
- · Intermodal freight service

 Primary north-south route for Amtrak long-distance service



TOP DRIVERS







Congestion



Demographic Changes



Amtrak Northeast Corridor

KEY GOALS







To Ohio

To New York

Washington D.C.







TOP DRIVERS



Congestion



Demographic Changes



Amtrak Northeast Corridor

KEY GOALS





Transportation and Land Use







EAST-WEST CORRIDOR

CSX and Buckingham Branch owned/operated

· Primary coal route

Passenger connection to Newport News



TOP DRIVERS



Changes in Energy Production



Amtrak Northeast Corridor



Aging Infrastructure

KEY GOALS







Ensure Transparency and Accountability, and Promote Performance



Support Regional Economic





HEARTLAND CORRIDOR

- Norfolk Southern owned/operated
- · Intermodal freight service

Passenger connection to Norfolk



TOP DRIVERS



Growth in Intermodal Traffic



Changes in Energy Production



KEY GOALS



Security and Resiliency



Improve Coordination between Transportation and Land Use



Support Regional Economic Development



Efficient Intermodal



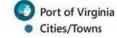


PORT OF VIRGINIA

- · 6 terminals
- · 30 miles of on-dock rail
- 55 foot deep channel



Port of Virginia



NIT Norfolk International Terminal NNMT Newport News Marine Terminal PMT Portsmouth Marine Terminal RMP Port of Richmond VIG Virginia International Gateway VIP Virginia Inland Port

TOP DRIVERS



Growth in Intermodal Traffic



Congestion



Environmental

KEY GOALS



and Accountability and Promote Performance Management



Ensure Suppo Efficient Eco Intermodal Deve

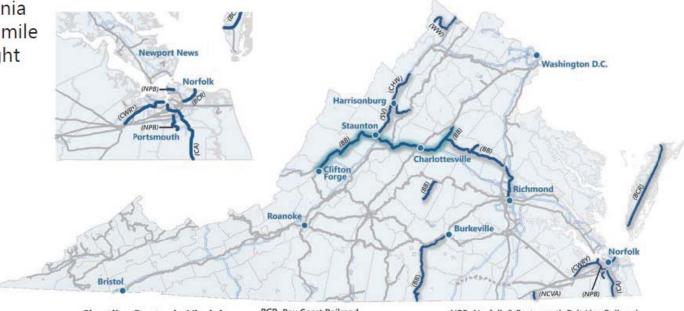






SHORTLINE ROUTES IN VIRGINIA

- 9 shortlines in Virginia
- · Important first/last mile connection for freight



Shortline Routes in Virginia



- BCR Bay Coast Railroad
- BB Buckingham Branch Railroad
- CA Chesapeake & Albemarle Railroad
- CHW Chesapeake Western Railway
- CWRY Commonwealth Railway
- NPB Norfolk & Portsmouth Belt Line Railroad
- NCVA North Carolina & Virginia Railroad
 - SV Shenandoah Valley Railroad
- WW Winchester & Western Railroad

TOP DRIVERS



Changes in Energy Production



Infrastructure



Rail Governance Framework



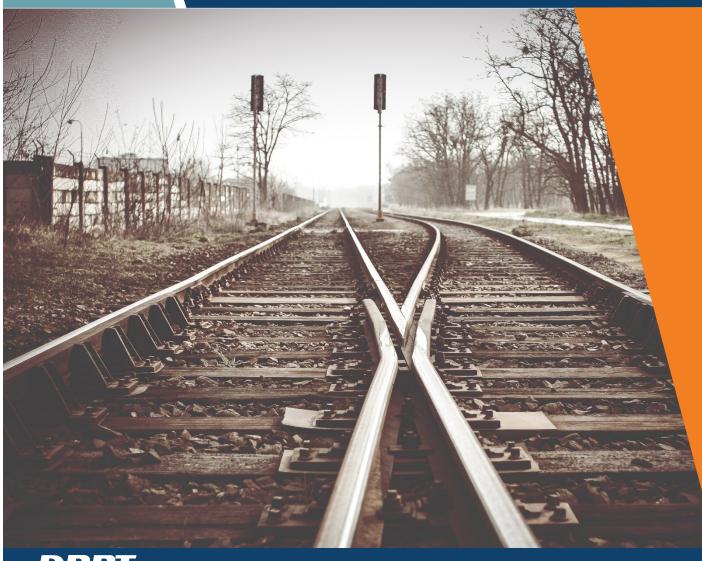
KEY GOALS

Transportation and Land Use









Thank You Questions?





Designation of Critical Urban Freight Corridors

TECHNICAL ADVISORY COMMITTEE MEETING

NOVEMBER 7, 2017



Why a National Highway Freight Network?

Established through the FAST Act to direct Federal resources and policies toward improved performance of the network:

National Highway Freight Program -funds go to states to improve the
movement of freight on the NHFN.
Virginia will receive, on
average,\$28M/year in new Federal
freight formula funds during the period
FY18 to FY23.

INFRA grant program -- eligible projects include highway freight projects on the NHFN and NHS; the total program provides \$4.5B over five years, averaging \$800M annually.



Primary Highway Freight System (PHFS)

Other Interstate Portions not on the PHFS

Critical Rural Freight Corridors (CRFC)

Critical Urban Freight Corridors (CUFC)

What is the NHFN?



What is a CUFC?

A public road within a UZA which does at least one of the following:

connects an intermodal facility to:

the PHFS;

the Interstate System; or

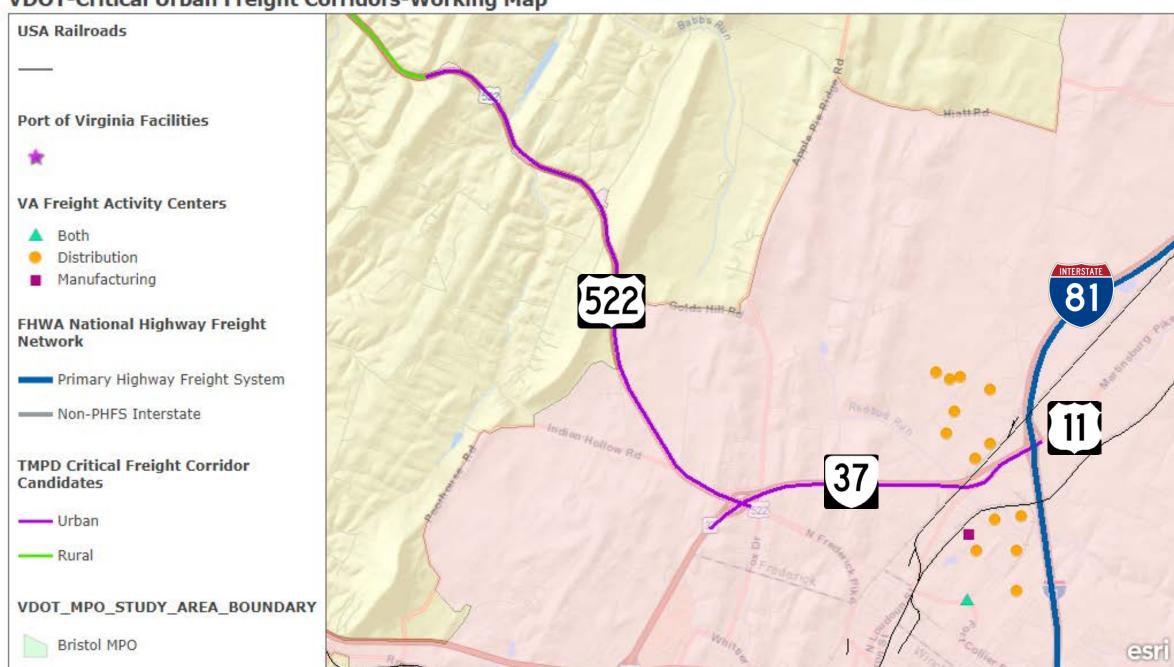
an intermodal freight facility;

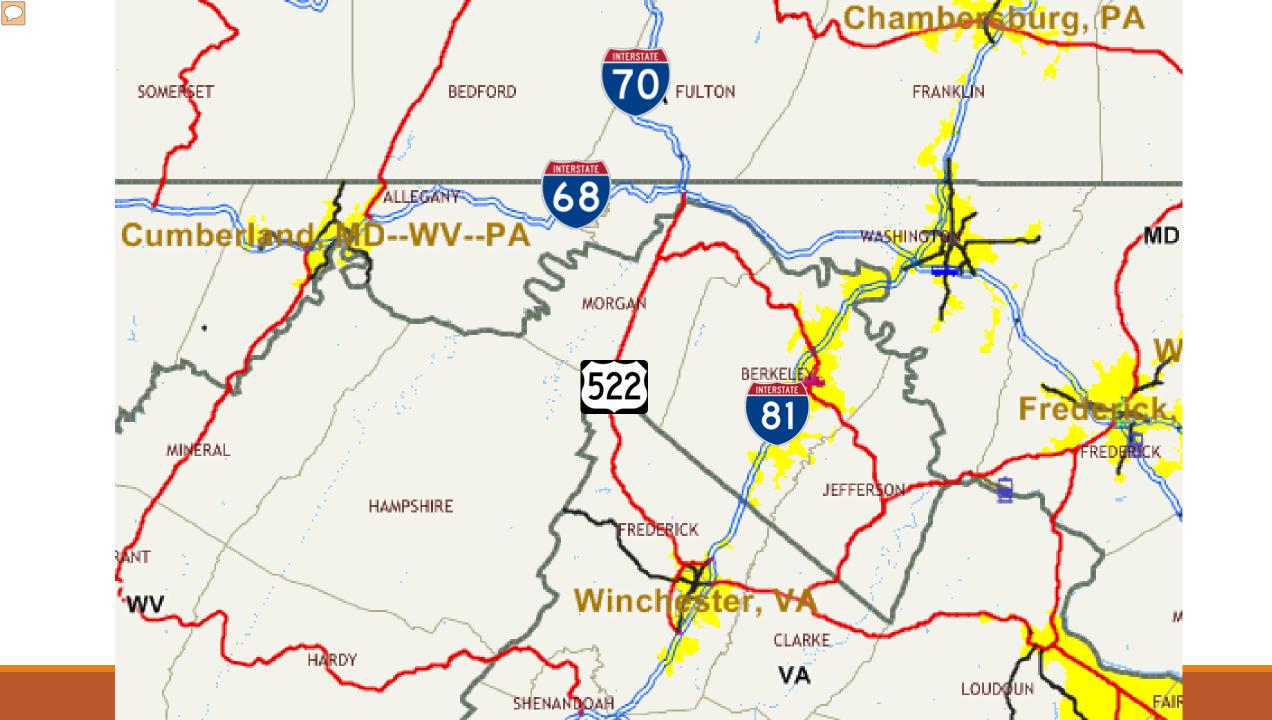
is located within a corridor of a route on the PHFS and provides an alternative highway option important to goods movement;

serves a major freight generator, logistic center, or manufacturing and warehouse industrial land; or

is important to the movement of freight within the region, as determined by the MPO or the State.

VDOT-Critical Urban Freight Corridors-Working Map







Connects I-81 with freight generator cluster, WW intermodal facility (Criteria H, J)

Truck volumes >25% PCE

Rest of US 522 to state line (14.8 mi) a CRFC candidate

Serves as I-81 alternative to I-68, I-70 and the Midwest (Criterion I)

Includes I-81 Exit 317 interchange, Redbud & Welltown intersections

CUFC Qualifications



Next step: Recommend CUFCs to VDOT

Add or subtract from TMPD candidates, or endorse unchanged

Virginia limited to 83.35 miles TOTAL (166.69 miles CRFC)