

VIRGINIA STATEWIDE RAIL PLAN

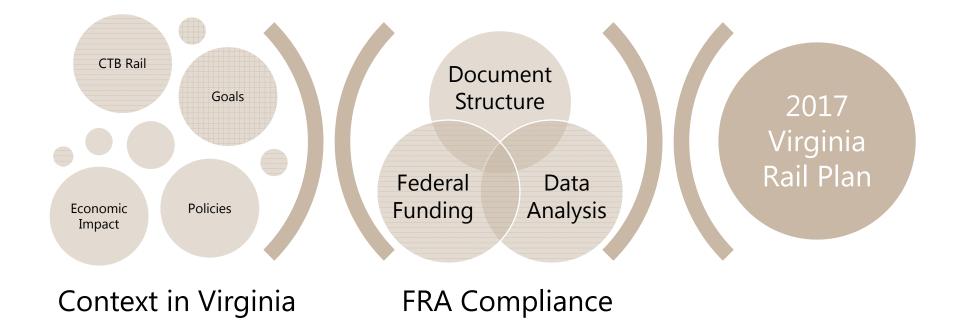
Virginia Rail Plan

October 23, 2017

Michael Todd, DRPT

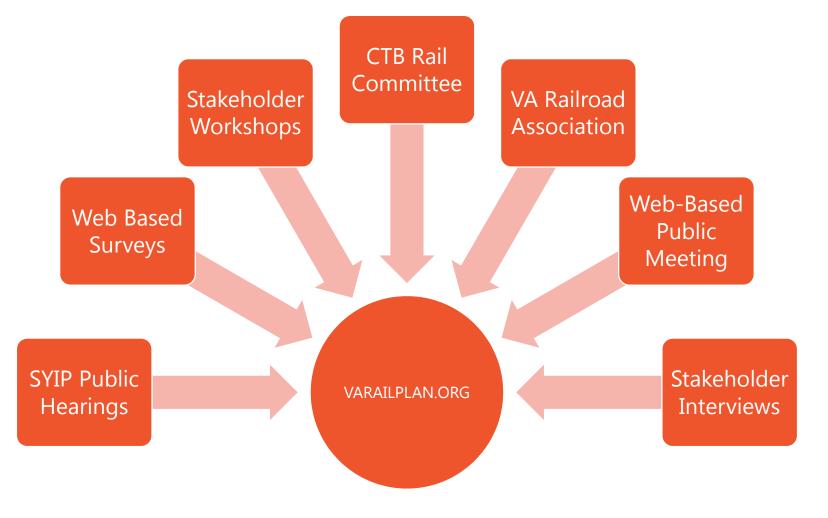
Rail Enhancement & Planning

Introduction and Purpose



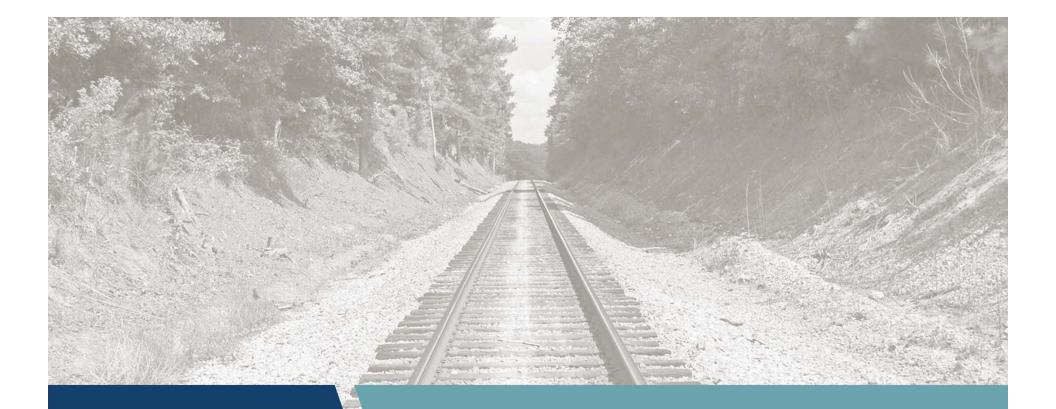


VIRGINIA STATEWIDE RAIL PLAN Outreach





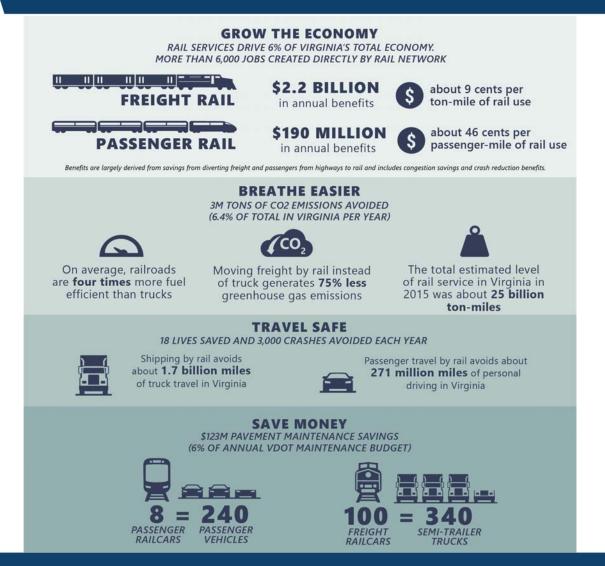




Executive Summary



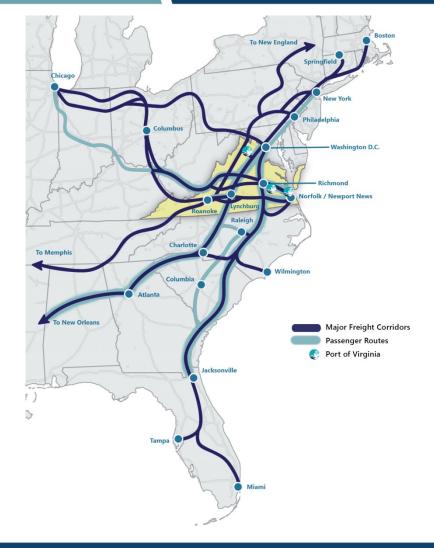
Benefits of Rail in Virginia







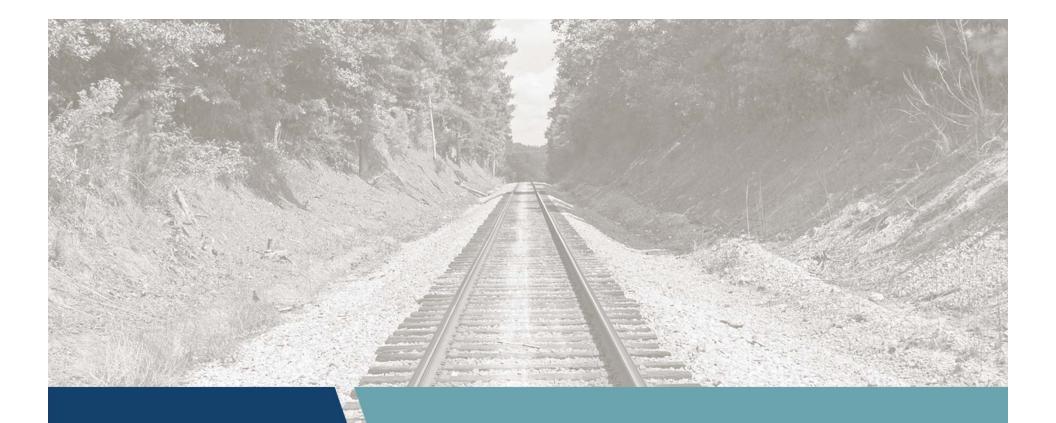
Benefits Continued



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









RAIL INDUSTRY DRIVERS



Demographic

Changes

Changes in Energy Production: Oil, Gas and Coal

Aging Infrastructure





Congestion



Environmental



Changes in Rail Governance Framework



Amtrak Northeast Corridor





FREIGHT



VIRGINIA STATEWIDE RAIL PLAN

> 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.



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.

9



FREIGHT



VIRGINIA STATEWIDE RAIL PLAN

> 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]

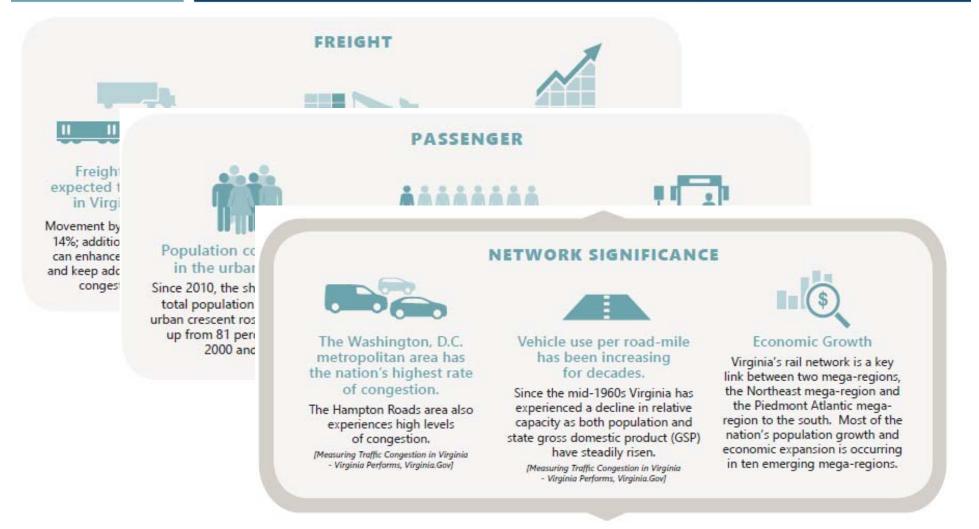


Increasing demand for public transportation

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

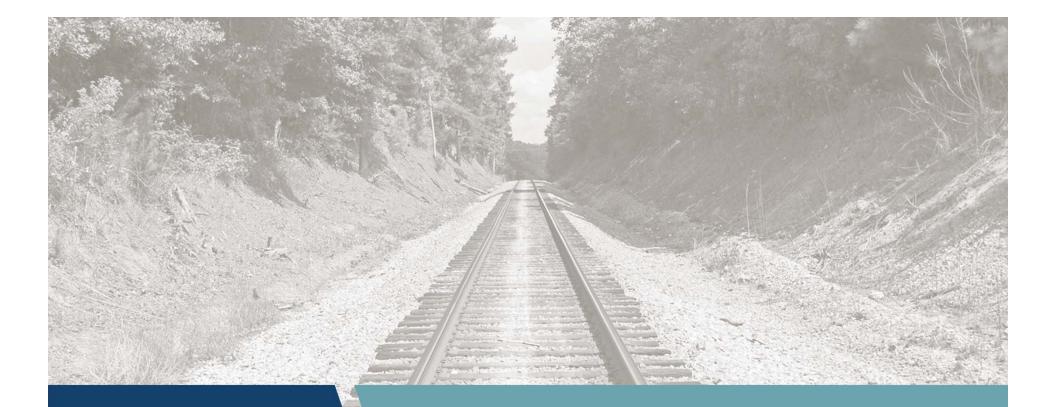












Vision, Goals & Future Investments









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Goals

Objectives

VTrans Vision

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

State Rail Plan Vision

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





Growth in Intermodal Traffic





Demographic

Changes

Bristo



Amtrak Northeast Corridor **KEY GOALS**

Roanoke



Consider Operational mprovements and Demand inagement First

Lynchburg



To Raleigh

To Ohio

Charlottesville

To New York

Richmond

 \cap

To Jacksonville

Washington D.C.



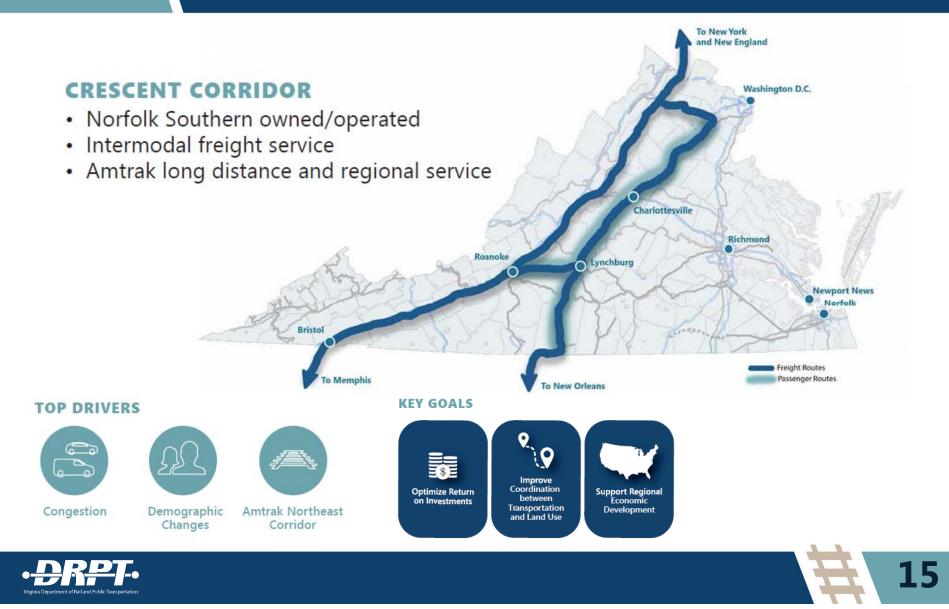
Newport News

Freight Routes

• • • • Future SEHSR corridor

Passenger Routes







EAST-WEST CORRIDOR

Amtrak Northeast

Corridor

CSX and Buckingham Branch owned/operated

Bristol

Aging

Infrastructure

- · Primary coal route
- Passenger connection to Newport News



To Columbus

Roanoke

0



Ο

Lynchburg

Charlottesville

and the



Changes in

Energy

Production

TOP DRIVERS



Freight Routes Passenger Routes

Newport News Norfolk

Washington D.C.

Richmond

VIRGINIA STATEWIDE RAIL PLAN Investments

HEARTLAND CORRIDOR

- Norfolk Southern owned/operated
- · Intermodal freight service
- Passenger connection to Norfolk

Charlottesville To Chicago Richmond Lynchburg Roanoke Newport News Norfolk Bristol Freight Routes Passenger Routes

TOP DRIVERS



Growth in Intermodal Traffic



Changes in Energy Production





Ensure Safety, Security and Resiliency

KEY GOALS







Ensure Efficient Intermodal Connections

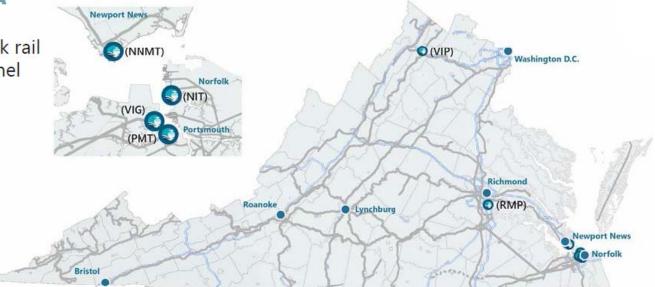
Washington D.C.





PORT OF VIRGINIA

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



Port of Virginia

Port of Virginia Cities/Towns 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





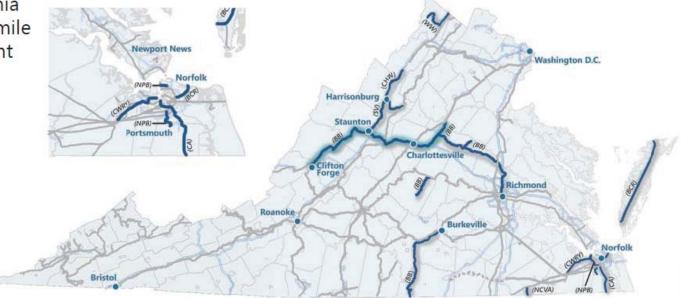
Support Regional Economic Development





SHORTLINE ROUTES IN VIRGINIA

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



TOP DRIVERS



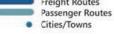
Changes in Aging Energy Infrastructure Production



Shortline Routes in Virginia Freight Routes

between

Transportation and Land Use



KEY GOALS

ure Safet

Security and Resiliency BCR Bay Coast Railroad BB Buckingham Branch Railroad CA Chesapeake & Albemarle Railroad

- CHW Chesapeake Western Railway
- CWRY Commonwealth Railway

port Reg

Development

Econor

- NPB Norfolk & Portsmouth Belt Line Railroad NCVA North Carolina & Virginia Railroad SV Shenandoah Valley Railroad
- WW Winchester & Western Railroad











