Bus Rapid Transit (BRT) Initiatives at the Northern Virginia Transportation Authority

TPB Technical Committee
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Two Primary Responsibilities

1. Develop and update the long range, multi-modal Transportation Plan for Northern Virginia → **TransAction Plan** (adopted October 2017)

2. Prioritize and fund regional transportation projects → **Six Year Program** (adopted June 2018)
Regional Collaboration

**NVTA**
- Updates and implements TransAction, the long-range transportation plan for Northern Virginia
- Dedicated source of funding for construction and implementation

**TPB/MWCOG**
- Federally designated MPO for the region
- Maintains and updates regional CLRP and travel demand model
- Prepares plans and programs required for region to receive transportation funding

**VDOT – NoVa**
- Oversees more than 17,000 lane-miles of roads in Northern Virginia
- Responsible for evaluating significant regional transportation projects (HB 599)

**WMATA Compact**
- Develops Regional Transit System Plan
- Implements a Six-Year Capital Improvement Program

**Commonwealth of Virginia**
- Oversees VDOT and dictates state-wide policy and funding priorities
- Legislatively mandates evaluation and prioritization processes, including TransAction

**NVTC**
- Focus on regional transit policy
- Plan, coordinate, and secure funding for transit in Northern Virginia
- Ownership partners in VRE

**PRTC**
- Focus on regional transit policy
- Plan, coordinate, and secure funding for transit in Northern Virginia
- Ownership partners in VRE
Growth in Population (24%) and Jobs (37%)...

2040 Population

2040 Jobs
... will lead to worsening travel conditions
2040 Vehicular Commute Trip Patterns
TransAction includes:

• 352 projects
• $44 Billion
Common ground with aspirational elements

1. Bring jobs and housing closer together *(Scenarios)*
2. **Expand bus rapid transit regionwide**
3. Move more people on Metrorail
4. Increase telework and other options for commuting
5. Expand express highway network
6. Improve walk/bike access to transit
7. Complete National Capital Trail
Transit Elements in TransAction

- Metrorail (second tunnel)
- Comuter rail (increased VRE service + cross over)
- Light rail (LRT) on WW Bridge
- Bus Rapid Transit (BRT) incl. on AL Bridge
- Express bus
- Local bus
- Station access
- Park n Ride facilities
- TSP/ITS
2040 Population Density
2040 Employment Density
Model Assumptions

• Different speed, capacity, and frequency assumptions for
  • Metrorail
  • VRE
  • LRT
  • BRT – dedicated lane (Richmond Highway)
  • BRT – mixed traffic
  • Express bus
  • Local bus
NVTA-funded BRT Projects

Richmond Highway BRT
Fairfax County

Type: Median running
Length: 10.4 miles

Total Cost: $730 million (excludes RT1 Widening)
NVTA Funds: $250 million (excludes RT1 Widening)
NVTA-funded BRT Projects

Pentagon City Transitway Extension
Arlington County

Type: Median/curbside exclusive lanes and mixed traffic
Length: 1.5 mile

Total Cost: $47 million
NVTA Funds: $29 million

Design: 2017-2019
Construction: 2019-2021

Courtesy: Arlington County
NVTA-funded BRT Projects

West End Transitway Phase 1 (Landmark Mall to Pentagon)
City of Alexandria

Type: Exclusive lanes/mixed traffic
Length: 5.3 miles

Total Cost: $128 million
NVTA Funds: $4.6 million

Design: 2017-2019
Construction: 2020-2023

Courtesy: City of Alexandria
NVTA-funded BRT Projects

Duke Street Transitway (Diagonal Road to Walker Avenue/Landmark Mall)
City of Alexandria

Type: Exclusive curbside lanes
Length: 5 miles

Total Cost: $115 million
NVTA Funds: $12 million
Design: 2020-2023
Construction: 2024-2026

Courtesy: City of Alexandria
NVTA-funded BRT Projects

Route 7 BRT (Envision Route 7)
Fairfax Co-Arlington Co-Falls Church-Alexandria

Type: Exclusive lanes/mixed traffic
Length: 12 miles

Total Cost: $300 million
NVTA Funds: $800,000

Current status:
Conceptual engineering study
Conclusion

NVTA’s TransAction Plan developed a vision for high capacity transit corridors in Northern Virginia including connections to the District of Columbia and Maryland.

NVTA’s SYP is already advancing multiple BRT projects in the region.

Common ground between NVTA’s TransAction Plan/SYP projects and Visualize 2045.

NVTA continue to collaborate with jurisdictions and regional agencies in Moving the Region Forward.
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