



COMMONWEALTH of VIRGINIA
Office of the
SECRETARY of TRANSPORTATION

Interstate 81 Corridor Improvement Program and Fund Update

Commonwealth Transportation Board Meeting
October 2021



Agenda

2019 Acts of Assembly

Performance Measures Comparison

Project Development Process

Assessment of Strategies

Annual Program Allocations and Financing Plan

Takeaway Scorecard

2019 Acts of Assembly

- Chapters 837 and 846 – CTB Report Requirements
- Report by December 15 to General Assembly
 - Performance of the I-81 corridor
 - Effectiveness of operational strategies and capital improvements
 - Status of projects
 - Current and projected I-81 Fund balance
- Annual program allocation
- Financing plan
- Schedule of projects and strategies

Performance Measures - Baseline Comparison

Safety and Performance of I-81

- Crash frequency and severity
- Person-hours of delay
- Number of incidents involving lane closures
- Average duration of incidents involving lane closures

Performance Measures - Baseline Comparison

Start Year	End Year	Person Hours of Delay (Thousands)			Lane-Impacting Incidents			Hours of Lane Closures		
		Northbound	Southbound	Total	Northbound	Southbound	Total	Northbound	Southbound	Total
2018	2019	2,116	1,471	3,587	1,894	1,691	3,585	2,329	1,812	4,141
2019	2020	1,908	1,245	3,153	1,763	1,580	3,343	2,121	1,627	3,748
Percent Change		-9.8%	-15.4%	-12.1%	-6.9%	-6.6%	-6.8%	-8.9%	-10.2%	-9.5%

Start Year	End Year	EPDO Crashes		
		Northbound	Southbound	Total
2015	2019	50,094	48,907	99,001
2016	2020	49,360	47,270	96,630
Percent Change		-1%	-3%	-2%

Operational Improvement Project Status

Operational Improvement Type	Status
Curve improvements (static and flashing chevrons)	✓
Safety Service Patrol enhancements	✓
Lift and tow	✓
Towing and Recovery Incentive Program (TRIP)	✓
Traffic camera installations	✓
Changeable message signs installations	Under construction Fixed completion date: October 28, 2021



Arterial Improvement Project Status

Corridor-wide Arterial Improvements

- Traffic signal upgrades
 - Planning and design continues in concert with coordination with localities for traffic signal system integration into the VDOT central signal system along entire corridor
- Parallel route upgrades
 - Minor geometric improvement projects to facilitate access to and from I-81 during incidents are complete (3 projects in Rockbridge County)

Project Development Process - Capital Projects



Capital Improvement Project Status - Bristol District

- 4 projects under design by VDOT staff
- 1 project under design by on-call consultant
- 2 projects under design by project-specific consultant (procured)
- 2 design-build projects (bundled) under development (**out year projects advanced**)
- 4 projects under construction
- 5 projects - contracts awarded, Spring constr.
- 2 projects - construction complete
- **Of the 18 SYIP projects in Bristol, all are currently under design or have construction completed. 2 out year projects advanced.**



Exit 26 Washington County

Southbound
acceleration and
deceleration lane
extensions



Capital Improvement Project Status - Salem District

- 2 projects under design by VDOT staff
- 0 projects under design by on-call consultant
- 1 project under design by project-specific consultant (procured)
- 2 design-build projects (bundled) under construction
- 1 project - construction complete
- **Of the 6 SYIP projects in Salem, all are currently under design or construction**



Exit 89 Pulaski County

Northbound
deceleration lane
extension



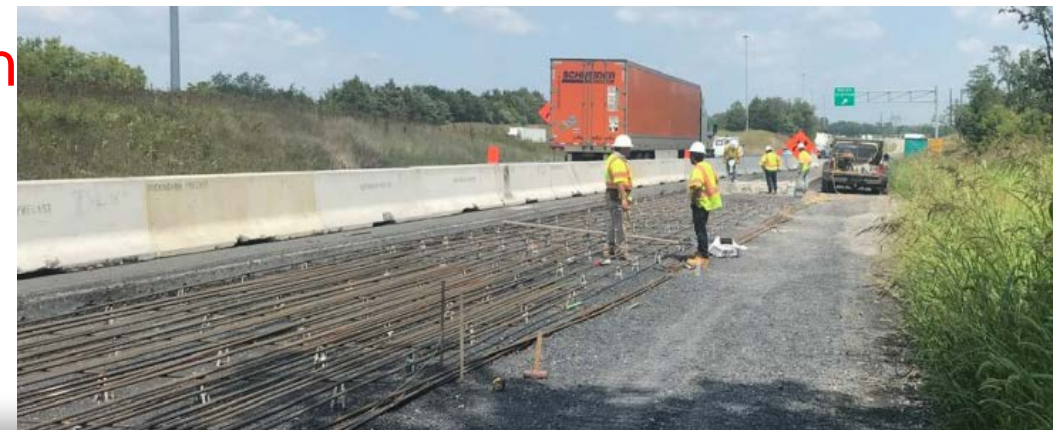
Capital Improvement Project Status - Staunton District

- 1 project under design by VDOT staff
- 1 project under design by on-call consultant
- 4 projects under design by project-specific consultants (procured)
- 0 design-build projects
- 5 projects under construction
- 5 projects – construction complete
- **Of the 16 current SYIP projects in the Staunton District, all are currently under design or have construction completed**



**Exit 269 -
Shenandoah
County**
**Northbound
deceleration
lane extension**

Truck Weigh Station, MM 304 - Frederick County
Northbound deceleration lane extension

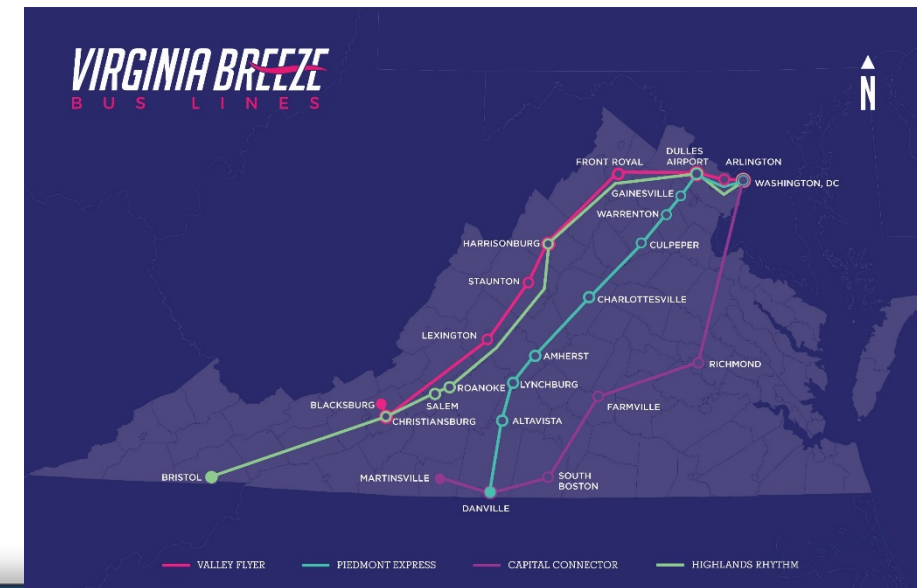


Takeaway Scorecard

Activity	Status	Actual/Anticipated Completion
Curve improvements (8)	Complete	Fall 2019
Initial accel/decel lane extensions (8)	Complete	Fall 2020
Safety service patrol expansion	Complete	July 2019
Additional cameras (51)	Complete	Spring 2021
Additional changeable message signs	Nearly complete	October 2021
Arterial upgrades	Underway (geometric improvements complete)	Varies by project
Remaining capital projects (19)	Underway	Varies by project

Multimodal Project Status – Virginia Breeze Intercity Bus

- Establishing new daily roundtrip service from Bristol to Washington DC
 - Ribbon cutting on November 13th, service begins November 15th
- Anticipated annual ridership of 25,000 on new service, nearly doubling intercity bus ridership in the I-81 corridor
- Highlands Rhythm is the 4th route in the Virginia Breeze network – joining daily services between:
 - Valley Flyer – Blacksburg to DC
 - Piedmont Express – Danville to DC
 - Capital Connector – Martinsville to RVA and DC



Multimodal Project Status – Western Rail Initiative

- DRPT and NS signed a term sheet for a 2nd State-supported Amtrak train to Roanoke (commence 2002) and an extension of both trains to the New River Valley (commence 2026).
- Major features include: purchase of 28 miles of track, construction of a double track south of Manassas and passenger rail bypass of Roanoke Yard, and a station in the New River Valley.
- DRPT, VPRA, and the Office of the Attorney General are negotiating the definitive agreements, completing environmental reviews and due diligence.
- The addition of the 2nd train and the extension to the New River Valley are estimated to add 80,000 net new rides



Fiscal Year 2022-2027 Performance (in millions)

Interstate I-81 Improvement Funding

Fund	PV	FY22	FY23	FY24	FY25	FY26	FY27
I-81 Regional Fuels Tax	\$ 110.1	\$ 53.6	\$ 57.3	\$ 47.5	\$ 59.5	\$ 56.2	\$ 43.9
I-81 Bond Proceeds		\$ 101.9	-	-	-	-	\$ 14.8
I-81 TIFIA Proceeds		\$ 101.8	-	\$ 258.2	-	-	\$ 379.8
Interstate 81 Fund	\$ 119.6	\$ 55.6	\$ 68.4	\$ 68.3	\$ 71.6	\$ 75.2	\$ 71.2
Total	\$ 229.7	\$ 312.9	\$ 125.7	\$ 374.0	\$ 131.1	\$ 131.4	\$ 509.7

Fund balance as of June 30, 2021 \$198.8 million

Fund balance as of September 30, 2021 \$215.4 million

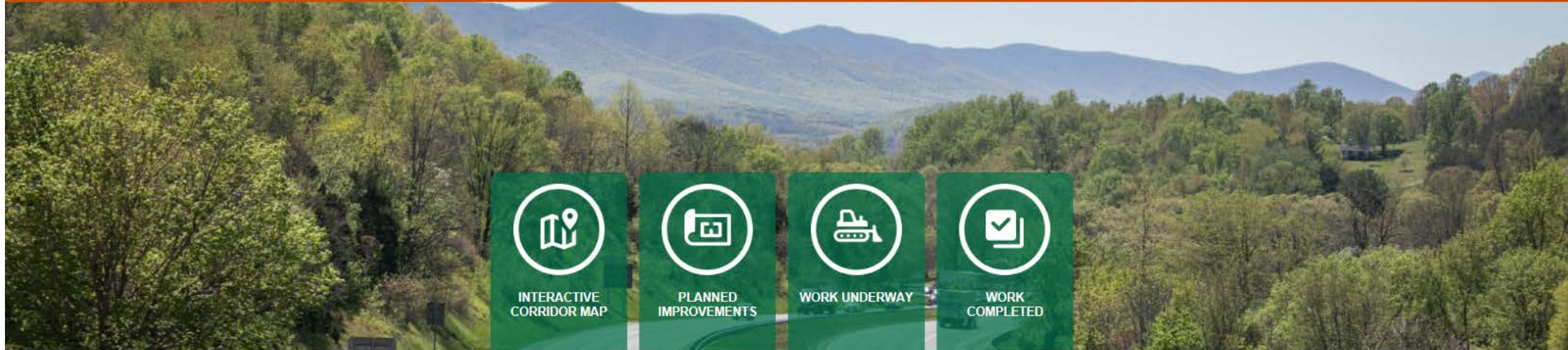
Study Website Improve81.org

IMPROVE 81



Home

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What Is The I-81 Improvement Program?

The I-81 Corridor Improvement Program consists of innovative, targeted improvements that will have a substantial effect on the safety and reliability of a critical portion of our nation's infrastructure.

