COMMONWEALTH of VIRGINIA
Commonwealth Transportation Board
1401 East Broad Street
Richmond, Virginia 23219

# COMMONWEALTH TRANSPORTATION BOARD WORKSHOP AGENDA <br> VDOT Central Office Auditorium <br> 1221 East Broad Street <br> Richmond, Virginia 23219 

October 19, 2021
10:00 a.m.

## Attendees will be required to wear a mask unless Proof of COVID vaccination is provided.

1. DRPT/VPRA/VDOT MOU
D. J. Stadtler, Virginia Passenger Rail Authority
2. I-81 Corridor Improvement Program

Dave Covington, Virginia Department of Transportation
3. VTrans

Nick Donohue, Deputy Secretary of Transportation Jitender Ramchandani, Office Intermodal Planning and Investment
4. Transportation Initiatives Wendy Thomas, Virginia Department of Transportation
5. Springfield to Quantico Enhanced Public Transportation Feasibility Study Jennifer DeBruhl, Virginia Department of Rail and Public Transportation
6.

TRIP Program Update
Jennifer DeBruhl, Virginia Department of Rail and Public Transportation
7. Periodic Regulatory Review JoAnne Maxwell, Virginia Department of Transportation
8. Capital Project Revenue Bonds, Series 2022 Laura Farmer, Virginia Department of Transportation
9. Transportation Revenues and Opportunities - Part 2 Nick Donohue, Deputy Secretary of Transportation John Lawson, Deputy Secretary of Transportation

Agenda
Meeting of the Commonwealth Transportation Board
Workshop Session
October 19, 2021
Page 2
10. SmartScale Round 5

Brooke Jackson, Office Intermodal Planning and Investment
11. Virginia Transportation Infrastructure Bank

Nick Donohue, Deputy Secretary of Transportation
12. Director's Items

Jennifer Mitchell, Virginia Department of Rail and Public Transportation
13. Commissioner's Items

Stephen Brich, Virginia Department of Transportation
14. Secretary’s Items

Shannon Valentine, Secretary of Transportation
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## Transforming Rail in Virginia: VDOTFDRPFVPRA <br> Interagency Agreement



## VDOTVPRA-DRPTInteragency Agreement

- Purpose of Agreement is to leverage VDOT's mega project construction experience on Long Bridge and other TRV projects.
- VDOTto provide servicessuch as design, construction, a nd procurement.
- VPRA to reta in responsibility for communic ations, environmental reviews a nd compliance, grants management, servic e planning and operations and other duties unless delegated to VDOT.
- DRPT to provide administrative a nd operational support.
- Future project a greements will define specific roles a nd responsibilities, timelines, budgets and funding commitments.
- MOA creates Exec utive Committee of VDOT C ommissioner, DRPTDirector a nd VPRA Executive Director


## TRV Projects

VA-AMTRAK-CSX-VRE INITIATIVE HIGHLIGHTS
RAIL CORRIDOR IMPROVEMENTS Construct 37 Miles of New Track
(1) PHASE 1
(Complete 2026) 23 miles of new rock
(2) PHASE 2

Complete 2030114 miles of now rock
RAILROAD RIGHT-OF-WAY (ROW) AND TRACK ACQUISITION Punchose of 384 Miles of Rairood ROW and 223 Mibs of Track

- SEGMENT 1

Holf of CSXT ROW berween Waskington, DC, and
Peerrburg VA. ( 145 mibes) ond 44 miles of frock

- SEGMENT 2

All of CSXT ROW (abandoned rail line benveen
Peeraburg VA, and Ridgewry, NC 75 miles)

- SEGMENT 3

Nearly oll of CSXT ROW berween Doswell, VA and
Cifton Forge, VA, (164 miles) ond 179 miles of frack



WASHINGTON DC


2
al CIT ALEXANDRIA
FRANCONIA-SPRINGFIELD
LORTON Long Bridge Proie
RIPPON
POTOMAC SHORES (FUTURE)
QUANTICO
Alexandria Fourth Track Franconia-Springfield Bypass(1)
Railroad Bridges over Newington Road

Franconia to Lorton Third Track (1)
Neabsco Creek to Woodbridge Third Track (Siding D) 2


Potomac Creek Third Track South (Siding A)




## Project Delivery Responsibility - CSX Agreement

| Project <br> ID | Project Name | $\begin{aligned} & \text { Beg. } \\ & \text { MP } \end{aligned}$ | $\begin{aligned} & \text { End } \\ & \text { MP } \end{aligned}$ | Phase | Design Responsibility* | Construction Responsibility* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| R01A | L'Enfant Fourth Track and Station Improvements | 111.5 | 112.4 | 2 | VRE | VRE |
| R02A | Long Bridge Project | 110.1 | 111.5 | 2 | DRPT | DRPT |
| R03A | Alexandria Fourth Track | 104.1 | 110.1 | 1 | CSXT | CSXT |
| R03A | Alexandria Fourth Track - Early Works |  |  | 1 | DRPT | VDOT |
| R05A | Franconia to Lorton Third Track | 92.3 | 99.0 | 1 | CSXT | CSXT |
| R05B | Franconia-Springfield Bypass | 96.4 | 97.3 | 1 | DRPT | DRPT |
| R05C | Railroad Bridges Over Newington Road | 95.3 | 96.2 | 1 | CSXT | CSXT |
| R06B | Railroad Bridges Over Route 1** | 90.1 | 91.1 | 1/2** | CSXT | CSXT |
| R10B | Potomac Creek Third Track - South (Siding A) | 61.3 | 65.2 | 1 | CSXT | CSXT |
| R13C | Woodford to Milford Third Track (Siding B) | 40.4 | 43.5 | 1 | CSXT | CSXT |
| R13D | Hanover Third Track (Siding C) | 15.8 | 18.7 | 1 | CSXT | CSXT |
| R7A | Neabsco Creek to Woodbridge Third Track (Siding D) | 84.9 | 88.0 | 2 | CSXT | CSXT |
| R9A | Aquia Creek Third Track - South (Siding E) | 68.5 | 70.8 | 2 | CSXT | CSXT |
| R13B | Crossroads Third Track (Siding F) | 48.7 | 53.0 | 2 | CSXT | CSXT |

* Responsibility is subject to modification as projects are developed and progressed into design and construction
**Project R06B "Railroad Bridges Over Route 1" was originally planned for Phase 3 but will be delivered by DRPT prior to the end of Phase 2. The delivery of this project is not tied to the increases in service associated with the completion of the Phase 1 and 2 projects.


## Long Bridge ProjectTimeline



## Questions?



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\(\frac{\text { Motor Vehicle Dealer Board }}{\text { commonwealth of virginia }}\)
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## Interstate 81 Corridor Improvement Program and Fund Update

## 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 <br> 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



## 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.



## Exit 26

Washington County

Southbound acceleration and deceleration lane extensions

- 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.


## 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



## 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


Exit 269 Shenandoah

County
Northbound deceleration lane extension

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

- Of the 16 current SYIP projects in the Staunton District, all are currently under design or have construction completed



## 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 <br> message signs | Nearly complete | October 2021 |
| Arterial upgrades | Underway (geometric <br> improvements complete) | Varies by project |
| Remaining capital projects (19) | Underway | Varies by project |
| 12 | Office of the SECRETARY of TRANSPORTATION |  |

## 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 $2^{\text {nd }}$ State-supported Amtrak train to Roanoke (commence 2022) 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 $2^{\text {nd }}$ 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


What Is The I-81 Improvement Program?
The 1-81 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.

| CORRIDOR OVERVIEW |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROGRAM IMPROVEMENTS BY DISTRICT |  | All | Bristol ${ }^{3}$ | Salem ${ }^{\text {a }}$ | Staunton 8 |
| + Muncie <br> -  | Davton Columbus |  |  | Yor | $\begin{aligned} & \text { Trenton } \\ & \text { Philadelphia } \\ & \hline \end{aligned}$ |



# COMMONWEALTH of VIRGINIA 

- Office of the

SECRETARY of TRANSPORTATION

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## VTrans Long-term Risk \& Opportunity Register - Part 2

Commonwealth Transportation Board Workshop URGGINa.

VIRGINIA<br>SPACE

## TODAY'S PRESENTATION: PURPOSE

- Present Draft Policy:

Development and Monitoring of VTrans Long-term Risk \& Opportunity Register

- Review impacts of mega/macrotrends on CTB's Goals
- Review the Draft Risk \& Opportunity Register

1
CTB's Vision, Guiding Principles, Goals and Objectives

## 2

VTrans Mid-term Needs: Identification and Prioritization


Strategic Actions (Recommendations)



## TECHNICAL GUIDE

## A resource for planners,

 engineers, and other professionals interested in the data sources, processes, and methods used to implement the CTB's policies.TECHNICAL GUIDE
DEVEIOPMENT AND MONITORING
DEVEIOPMENI AND MONITO
\& OPPORTUNITY REGISTER


- Key Terms
MEGATREND
"A large, social, economic, political, environmental or technological change that is slow to form. Once in place, megatrends influence a wide range of activities, processes and perceptions, both in government and in society, possibly for decades. They are the underlying forces that drive trends." - European Foresight

Forum

STEP 1 IDENTIFY MEGA- \& MACROTRENDS

## STEP 2 IDENTIFY SURROGATES FOR CTB GOALS

## STEP $3>$ ESTIMATE IMPACTS OF MACROTRENDS ON SURROGATES

STEP 4
DEVELOP VTRANS LONG-TERM RISK \& OPPORTUNITY REGISTER

## STEP 5

TRACK MACROTRENDS FOR ANNUAL REPORTING


Covered at the September 2021 Workshop

| Economic Competitiveness <br> and Prosperity | Vehicle Miles Traveled (VMT) Index |
| :---: | :---: |
| Accessible and Connected Places | Shared Mobility Index |
| Proactive System Management | Safety Index All Users |
| Healthy Communities \& Sustainable | Transportation Communities |

## - Paul Saffo's ${ }^{1}$ six rules of forecasting:

- Rule \# 1: Define a Cone of Uncertainty
- Rule \# 2: Look for the S Curve
- Rule \# 3: Embrace the Things That Don't Fit
- Rule \# 4: Hold Strong Opinions Weakly
n Rule \# 5: Look Back Twice as Far as You Look Forward

】 Rule \# 6: Know When Not to Make a Forecast
"The primary goal of forecasting is to identify the full range of possibilities, not a limited set of illusory certainties."

- Sources of Uncertainties:
- Global Policy (Megatrends are global in nature)

D Scientific
. Forecast

】 Model

】 Annual updates to the Board because"If you must forecast, then forecast often-and be the first one to prove yourself wrong." - Paul Saffo ${ }^{1}$

Interact $V_{\text {TRANS }}$ | Data Explorer


The presentation focuses on the key takeaways; more detailed numbers are available on vtrans.org.

PROBABILITY-BASED SCENARIOS: LOW, MEDIUM, HIGH


- Surrogates for CTB Goals are measured in relation to 1.0 which is 2045-Business-As-Usual Scenario with no impact from Macrotrends.


VEHICLE MILES TRAVELED (VMT) INDEX: ESTIMATED CHANGE IN VMT DUE TO VTRANS MACROTRENDS COMPARED TO THE 2045 BUSINESS-AS-USUAL SCENARIO


SHARED MOBILITY INDEX: ESTIMATED SWITCHABLE URBAN AUTO SOV VMT TO MICROMOBILITY + RIDESOURCING DUE TO VTRANS MACROTRENDS COMPARED TO THE 2045 BUSINESS-AS-USUAL SCENARIO


STATEWIDE: LOW IMPACT


4000

STATEWIDE: MEDIUM IMPACT

$+27 \%$

STATEWIDE: HIGH IMPACT



SAFETY INDEX: ESTIMATED CHANGE IN NUMBER OF CRASHES INVOLVING FATALITIES + SERIOUS INJURIES DUE TO VTRANS MACROTRENDS COMPARED TO THE 2045 BUSINESS-AS-USUAL SCENARIO

-26\%

STATEWIDE: LOW IMPACT

-38\%

STATEWIDE: MEDIUM IMPACT

$-6>0$

STATEWIDE: HIGH IMPACT


TAILPIPE EMISSIONS INDEX: ESTIMATED CHANGE IN TAILPIPE EMISSIONS DUE TO VTRANS MACROTRENDS COMPARED TO THE 2045 BUSINESS-AS-USUAL SCENARIOS

$-3 \%$

STATEWIDE: LOW IMPACT

-17\%

STATEWIDE: MEDIUM IMPACT

-69\%

STATEWIDE: HIGH IMPACT


8.


## DOWNSIDE RISK

- A 17\% VMT increase due to Macrotrends, on top of the VMT growth due to economic expansion, overwhelms Virginia's transportation network in highly population areas and corridors.
- Virginia is unable to maximize transportation system benefits from a high number of telework capable jobs.
- TNCs /Ridesourcing vehicles merely replace single-occupancy vehicle VMT.
- Shared mobility services are unable to provide meaningful mobility benefits for populations that can benefit the most.
- Over 20,000 directional roadway miles remain at risk from flooding due to different hazards.


## UPSIDE RISK

- Despite the projected VMT growth due to Macrotrends, technological advancements allow Virginia to reduce the number of crashes involving fatalities and serious injuries by as much as $67 \%$.
- Despite the projected VMT growth due to Macrotrends, Virginia is able to reduce tailpipe emissions by as
- Risks and opportunities are identified utilizing the following criteria and based on estimated impacts (Step 3) of Macrotrends on CTB Goals.
. Strategic in nature
. Manageable in number
- Level of detail suitable for policy-makers and executives
. Most importantly based on Step 3 evidence that is measurable, replicable, and with an ability to monitor

Large number of roadways at-risk from floodingPresence of unknown and unquantified flooding risks

Disproportionate flooding impacts on certain areas and populations

Higher rate of wear-and-tear on the transportation system

Increased curb access conflicts in urbanized areas

Insignificant (transportation system) benefits from shared mobilityInequitable distribution of shared mobility benefitsInability to meet mobility needs of Virginians age 65 and older
: Eliminate or mitigate identified flooding risks
:- Increase state's preparedness to address other climate-related macrotrends
:- Improve ability to manage high number of highly autonomous vehicles
:- Maximize safety benefits offered by highly autonomous vehicles

Significantly reduce tailpipe emissions
: Utilize shared mobility services to improve accessibility
: Improve ability to manage shared mobility vehicles and services
: Proactively mitigate transportation impacts of automation and large warehouse/distribution centers
: Maximize utilization of workplace flexibility for telework capable jobs

## OIPI will provide annual updates to the Board utilizing the following VTrans Trend Trackers.

 MACROTREND
## VTRANS TREND TRACKERS



- Number of directional miles at risk from sea level rise
- Number of directional miles at risk from storm surge
- Number of directional miles at risk from inland/riverine flooding
- Annual cost of transportation repair due to flooding events
- Market Penetration of Highly Autonomous Vehicles*
- Attitude and Preferences for Adoption of Highly Autonomous Vehicles*

- Market Penetration of Electric Vehicles*
- Attitude and Preferences for Adoption of Electric Vehicles*
- Transportation Revenue by Revenue Source
- Greenhouse Gas (GHG) Emissions
- Access to Shared Mobility Services*
- Utilization of Shared Mobility Services by Type*
- Number of Warehouse and Distribution Centers
- Square Footage of Warehouse and Distribution Centers
- Share of E-commerce Sales (business-to-business, business-to-customers)


## OIPI will provide annual updates to the Board utilizing the following VTrans Trend Trackers.

MACROTREND


- Number of short-range and long-range drone deliveries
- Number of last-mile robotic deliveries
- Value output of 3D Printing
- Number of Workers with Workplace Flexibility*
- Utilization of Workplace Flexibility*
- Job Share of Professional + Technical Services Industry
- Number of Virginians Age 65 or older
- Share of Age 65+ Cohort
- VTrans Land Use Vitality (LUV) Index
- Population


## NEXT STEPS

1
CTB's Vision, Guiding Principles, Goals and Objectives

## 2

VTrans Mid-term Needs: Identification and Prioritization

## 3

VTrans Long-term Risk \& Opportunity Register

4
Strategic Actions (Recommendations)


## NEXT STEPS

』 November

- Gather CTB input on VTrans Strategic Actions
- Conduct outreach and engagement
- December: Request CTB Action on:

D Draft Policy for the Development and Monitoring of VTrans Long-term Risk \& Opportunity Register

- VTrans Strategic Actions

D Document synthesizing CTB-adopted policies for the Governor and the General Assembly

# 2021 Transportation Initiative Interim Report 

Wendy E. Thomas<br>Director, Budget and Funds Management Division

## 2021 Transportation Initiative

Item 447.10 of Chapter 552 of the 2021 Special Session I Acts of the Assembly (Appropriation Act) directed allocation of $\$ 323.4$ million in onetime federal funds, one-time general funds, and previous year economic development transportation funds

## Amount based on the following:

- $\$ 233.4$ million in funds made available for Highway Infrastructure Programs by the Coronavirus Response and Relief Supplemental Appropriations Act (CRRSA);
- $\$ 20.0$ million out of uncommitted balances in the Transportation Partnership Opportunity Fund (TPOF);
- $\$ 15.0$ million in uncommitted balances previously allocated for Financial Assistance for Planning, Access Road, and Special Projects (Access Programs); and
- $\$ 55.0$ million in General Funds


## 2021 Transportation Initiative - Uses

| Project/Initiative | Amount millions) |
| :--- | :---: |
| Intercity Passenger Rail from Roanoke to <br> Blacksburg/Christiansburg | $\$ 83.5$ |
| Improve commuter rail service on the VRE Manassas <br> Line | 83.5 |
| Improvements to the I-64 Corridor - (1) HRELN, (2) <br> improvements between exit 205 to 234 | 93.1 |
| WMATA Capital for FY 2022 | 32.4 |
| Regional trails | 10.0 |
| Pilot programs for fare-free transit with urban and rural <br> providers | 10.9 |
| Redevelopment demonstration program - Falls Church | 10.0 |
| Total | $\$ 323.4$ |

Item 447.10 requires the Board to provide an interim report on the use of the funds to the General Assembly no later than November 1, 2021

## Intercity Passenger Rail from Roanoke to Blacksburg/Christiansburg

- To extend passenger rail service from Roanoke to New River Valley and increase the frequency of service along the I-81/US 29 Corridor
- FY 2022-2027 CTF Six-Year Financial Plan (SYFP) provides $\$ 83.5$ million across FY 2022 and FY 2023 to the Department of Rail and Public Transportation (DRPT)
- DRPT and Norfolk Southern executed a binding term sheet on April 2, 2021
- DRPT and the Virginia Passenger Rail Authority are in active negotiations with Norfolk Southern to complete definitive agreements by December 2021


## Commuter rail service - VRE Manassas Line

- To improve commuter rail service on the VRE Line
- FY 2022-2027 CTF SYFP provides \$83.5 million across FY 2022 and FY 2023 to DRPT for this purpose
- DRPT, VPRA, and VRE are working to finalize negotiations with Norfolk Southern on agreement for expanded VRE service on the Manassas line
- Term sheet negotiations underway


## I-64 Corridor Improvements

- Provides funds first to cover any funds needed for the Hampton Roads Express Lanes Network (HRELN)
- Any remaining funds to improve l-64 between Bottoms Bridge (Exit 205) and Lightfoot (Exit 234)
- In coordination with the Central Virginia Transportation Authority
- FY 2022-2027 CTF SYFP provides $\$ 93.1$ million for this purpose
- The Board may not distribute any funds for HREL until an updated traffic and revenue modeling considering summer weekend traffic volumes is completed. Estimated revenue results will be provided in mid-January 2022 with the full report completed in late February 2022


## WMATA Capital

- Funds to be used first to ensure Virginia meets its commitments to the \$500 million in dedicated regional funding in FY 2022
- Any remaining funds to be transferred to the Northern Virginia Transportation Commission (NVTC) to reduce local contribution necessary to support WMATA helping to address reduced regional gas tax revenues
- FY 2022-2027 CTF SYFP provides \$32.4 million in FY 2022 to DRPT
- The Board subsequently allocated $\$ 22,397,000$ of the $\$ 32.4$ million in the FY 2022-2027 SYIP to fully fund the $\$ 154.5$ million of WMATA Dedicated Funding for FY 2022
- The remaining \$10,003,000 will be allocated between WMATA and NVTC in the fourth quarter of FY 2022 based on actual revenue collections for the WMATA Dedicated Funding sources


## Regional trails

- To support planning, development, and construction of multi-use trails with priority given to developing new regionals trails, to projects to improve connectivity of existing trail networks, and to geographic diversity in the use of such funds
- FY 2022-2027 CTF SYFP provides $\mathbf{\$ 1 0 . 0}$ million in FY 2022 for this purpose
- Per the Appropriation Act, the Office of Intermodal Planning and Investment (OIPI) has convened a working group to identify trails, master planning process, and complete funding needs assessment

Fan Hipporins VIRGINIA


## Fare Free Transit Pilot

- To establish pilot programs for fare free transit with urban and rural transit providers
- Appropriation Act provides that not more than $\$ 900,000$ may be used to study transit equity and modernization (as required by HJ 542)
- FY 2022-2027 CTF SYFP provides $\mathbf{\$ 1 0 . 9}$ million to DRPT for this purpose
- VDOT has transferred the FY 2022 funds to DRPT
- DRPT received mid-cycle grant applications for the Transit Ridership Incentive Program's fare free transit program on September 17, 2021 and is presenting funding recommendations to the Board in this month's workshop
- Transit Equity and Modernization study underway with interim report due December 1, 2021; total study budget is $\mathbf{\$ 1 . 8}$ million


## Connected Infrastructure Demonstration Program

- FY 2022-2027 CTF SYFP provides $\$ 10$ million for connected infrastructure redevelopment demonstration program within and adjacent to the Virginia Tech campus in the City of Falls Church
- The Act provides the Board may not distribute funds for this purpose unless the implementing entity has entered into an agreement with VDOT to facilitate information sharing and knowledge exchange
- Planning for this program begins mid-October 2021
- VDOT and VTRC staff have been involved in pre-planning efforts and are members of both technical and executive steering committees related to this program
- Coordination for development of required agreement underway


## Next Steps

- Action item to approve interim report
- Submittal of interim report to General Assembly by November 1, 2021
- Final report due to General Assembly no later than June 30, 2022
- Board to be briefed on final report ahead of that submittal
- Additional briefings and recommendations to be brought before the Board as required


## Springfield to Quantico Enhanced Public Transportation Feasibility Study

Commonwealth Transportation Board Workshop October 19, 2021

Jennifer DeBruhl, Chief of Public Transportation Virginia Department of Rail and Public Transportation


## Study Background and Objectives

- Virginia General Assembly approved a 2020 budget amendment directing DRPT to conduct a feasibility study to be completed by December 1, 2021
- Study Objectives:
- Comprehensive, objective evaluation of a range of potential future enhanced transit alternatives that compares the cost, benefits, and impacts of each option to inform recommendations about future investment in the corridor.




## Study Technical Approach



## Public and Stakeholder Outreach

- Completed Activities:
- Technical Advisory Committee
- Elected officials briefings
- DRPT website page
- Project factsheet
- On-Line survey
- Pop-up events
- Public Meeting \#1 (May)
- Public Meeting \#2 (July)
- Public Meeting \#3 (Sept)

http://www.drpt.virginia.gov/transit/springfield-to-quantico/


## Enhanced Public Transit is Needed Because...

Existing transit does not serve all trips well

Transit services may need enhancements to support future development

Transit connections to key regional activity centers, such as Fort Belvoir and Quantico bases, are limited

Access to Transit Services is reliant on park \& ride or long walks to the bus

## How are we evaluating feasibility?



## Transit Alternatives Evaluated in the Study



* Additional Service Above Transforming Rail in Virginia Improvements Included in Baseline


## Projected Blue Line Daily Boardings

-品RPI.



Projected BRT Daily Boardings

(4) Metrorail Stations

Virginia Railway Express (VRE) StationsCounty Boundary
-
Richmond Highway

Metrorail Routes

- Blue
- Yellow


## VRE Routes

-. Fredericksburg

-     - Manassas

Potential BRT
Alignment

## Projected BRT Daily

 Boardings- <250
- 250-500
- 500-750

750-1.000
$>1,000$


## Summary of Evaluation Results

|  | Additional Express Bus | BRT <br> Extension | Additional VRE Service* | Metrorail Blue | Metrorail Yellow |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ridership Potential | t | $t * *$ | t |  |  |
| Congestion Mitigation | * | * | * | $t \rightarrow t$ | * $大$ |
| Regional Accessibility | t | $t$ t | $t *$ | $t$ t |  |
| Equity | $\star$ | * | $\star \star$ | $t \rightarrow t$ | $t \rightarrow t$ |
| Cost- <br> Effectiveness | t $大$ | t | + | $\star$ | $\star$ |

## Other Considerations for Metrorail Extensions

- Metrorail extension would be a significant addition to the Metro system
- Core capacity needs must be addressed first
- Legal / governance implications of adding Prince William County to the WMATA compact jurisdictions
- Annual capital and operating budget subsidy contributions for Prince William County (and an increase for Fairfax County)


L'Enfant Plaza to Triangle
Track Length $=\mathbf{4 6}$ Miles (Blue)
Track Length $=37$ Miles (Yellow)

## Sensitivity Tests

- Can we make the alternatives more cost efficient by shortening the alignment?
- Uncertainty in long-range planning - What might happen to ridership forecasts if people keep teleworking?
- How would significant changes in land use change ridership forecasts?


## Estimated Costs of Alternatives (\$2030)

Additional Costs Beyond What is Included in the Future Baseline

|  | Add'l Express Bus | Add'I VRE | $\begin{aligned} & \text { BRT } \\ & \text { Ext } \end{aligned}$ | Shorter BRT <br> Ext | Metrorail Blue | Shorter Metrorail Blue | Metrorail Yellow | Short Metrorail Yellow |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Capital Cost Range | $\begin{gathered} \$ 37 \text { M - } \\ \$ 54 \mathrm{M} \end{gathered}$ | $\begin{gathered} \text { \$116 M - } \\ \$ 174 \mathrm{M} \end{gathered}$ | $\begin{gathered} \$ 2.4 \mathrm{~B}- \\ \$ 3.6 \mathrm{~B} \end{gathered}$ | $\begin{aligned} & \text { \$1.6 B- } \\ & \text { \$2.4 B } \end{aligned}$ | $\begin{aligned} & \text { \$18.1 B- } \\ & \text { \$27.2 B } \end{aligned}$ | $\begin{aligned} & \text { \$13.6 B- } \\ & \$ 20.5 \text { B } \end{aligned}$ | $\begin{aligned} & \text { \$18.3 B- } \\ & \text { \$27.5 B } \end{aligned}$ | $\begin{gathered} \$ 13.8 \text { B - } \\ \$ 20.8 \text { B } \end{gathered}$ |
| Annual O\&M Cost | \$7 M | \$80 M | \$19 M | \$15 M | \$168 M | \$135 M | \$168 M | \$135 M |
| Annual Net Cost: Cap + O\&M - Fare Revenue | \$8 M | \$46 M | \$133 M | \$90 M | \$764 M | \$579 M | \$771 M | \$587 M |

## Next Steps

- Draft report - posted for public comment
- Final report submitted to General Assembly by December 1, 2021


## Springfield to Quantico Enhanced Public Transportation Feasibility Study

Commonwealth Transportation Board Workshop October 19, 2021

## Transit Ridership Incentive Program (TRIP) Commonwealth Transportation Board-October 19, 2021

Jennifer DeBruhl, Chief of Public Transportation Department of Rail and Public Transportation


## General Program Overview

- Established in the 2020 General Assembly Session, Code of Virginia §33.2-1526.3
- Promote increased ridership of large urban transit systems
- Reduce the barriers to transit use for low-income individuals
- Implementation delayed due to COVID-19
- CTB Policy approved in July



## Program Funding FY22-27

(\$ in millions)

|  | FY22 | FY23 | FY24 | FY25 | FY26 | FY27 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Regional Routes | $\$ 7.5$ | $\$ 11.3$ | $\$ 16.9$ | $\$ 16.5$ | $\$ 18.0$ | $\$ 18.2$ | $\$ 88.4$ |
| Zero Farel <br> Low Income | $\$ 12.5$ | $\$ 3.7$ | $\$ 5.6$ | $\$ 5.8$ | $\$ 6.0$ | $\$ 6.0$ | $\$ 39.6$ |
| Total | $\mathbf{\$ 2 0 . 0}$ | $\mathbf{\$ 1 5 . 0}$ | $\mathbf{\$ 2 2 . 5}$ | $\mathbf{\$ 2 3 . 3}$ | $\mathbf{\$ 2 4 . 0}$ | $\mathbf{\$ 2 4 . 2}$ | $\mathbf{\$ 1 2 9}$ |

- FY22 - Includes \$10M in 2021 Transportation Initiative Funding dedicated for Zero-Fare Pilots
- Beyond FY22, up to 25\% annually can be utilized for Zero-Fare/Low Income projects on a statewide basis


## Regional Routes Funding FY22-27

 (\$ in millions)| Region | Share | FY22 | FY23 | FY24 | FY25 | FY26 | FY27 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NOVA | $42.4 \%$ | $\$ 3.2$ | $\$ 4.8$ | $\$ 7.2$ | $\$ 7.0$ | $\$ 7.6$ | $\$ 7.7$ | $\$ 37.5$ |
| Hampton Roads | $27.3 \%$ | $\$ 2.0$ | $\$ 3.0$ | $\$ 4.6$ | $\$ 4.5$ | $\$ 4.9$ | $\$ 5.0$ | $\$ 24.0$ |
| Richmond | $18.1 \%$ | $\$ 1.4$ | $\$ 2.0$ | $\$ 3.0$ | $\$ 3.0$ | $\$ 3.3$ | $\$ 3.3$ | $\$ 16.0$ |
| Roanoke | $4.0 \%$ | $\$ 0.3$ | $\$ 0.5$ | $\$ 0.7$ | $\$ 0.6$ | $\$ 0.7$ | $\$ 0.7$ | $\$ 3.5$ |
| Fredericksburg | $2.7 \%$ | $\$ 0.2$ | $\$ 0.3$ | $\$ 0.4$ | $\$ 0.4$ | $\$ 0.5$ | $\$ 0.5$ | $\$ 2.3$ |
| Lynchburg | $2.2 \%$ | $\$ 0.2$ | $\$ 0.3$ | $\$ 0.4$ | $\$ 0.4$ | $\$ 0.5$ | $\$ 0.5$ | $\$ 2.3$ |
| Blacksburg | $1.7 \%$ | $\$ 0.1$ | $\$ 0.2$ | $\$ 0.3$ | $\$ 0.3$ | $\$ 0.3$ | $\$ 0.3$ | $\$ 1.5$ |
| Charlottesville | $1.7 \%$ | $\$ 0.1$ | $\$ 0.2$ | $\$ 0.3$ | $\$ 0.3$ | $\$ 0.3$ | $\$ 0.3$ | $\$ 1.5$ |

- Each region must receive their proportional share on a 5 -year rolling average
- Percentages will be revisited with data from the 2020 Census


## Key Themes for Project Evaluation

## Well Planned

- Project included in statewide or local transportation plans (I.E TSP, TDP, etc.)
- Well defined and quantifiable measures of success - clear rationale behind target performance measures

Collaborative

- Supported by appropriate MPO (regional connectivity projects), serviced localities, and VDOT if project has infrastructure needs
- Built through partnerships with local organizations or municipalities


## Quickly Implementable

- A strong rationale for funding duration request and financial capacity to continue after pilot
- Existing technical capacity and experienced project management
- Low start up costs and a quick implementation timeline


## TRIP Applications at a Glance

- Application period opened August 1 and closed September 17
- Supporting materials accepted through October 4

FY 22 TRIP Applications Received

- Received $\mathbf{1 0}$ zero fare and 3 regional applications
- Total FY22 state funding requested for zero fare projects: \$11,274,486
- Total FY22 state funding requested for regional projects: \$2,184,327
- Need to consider multi-year
 project needs when approving projects in FY22


## Regional Routes - Funding Recommendations

- Policy provides for a five year pilot - with funding step down
- Projects were evaluated and prioritized using the policy criteria
- Regional services are still seeing diminished ridership due to COVID, low number of applications was anticipated
- All three projects are recommended for multi-year funding
- GLTC - Route 4 Extension (recommended in Transit Strategic Plan)
- PAT Southern Connector - Petersburg - Emporia connection (recommended in Transit Strategic Plan)
- HRT - Naval Base Circulator - increased on-base circulation (recommended in Transit Strategic Plan)


## Regional Routes - Funding Recommendations

|  | FY22 | FY23 | FY24 | FY25 | FY26 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Available Funding | \$7.5M | \$11.3M | \$16.9M | \$16.5M | \$18.0M | \$88.4M |
| GLTC Route 4 | \$652K | \$489K | \$244K | \$163K | \$81K | \$1.6M |
| Petersburg Southern Connector | \$530K | \$301K | \$151K | \$101K | \$50K | \$1.0M |
| HRT Naval Station Circulator | \$1.0M | \$924K | \$463K | \$0 | \$0 | \$2.4M |
| Unallocated | \$5.3M | \$9.6M | \$16.0M | \$16.2M | \$17.9M | \$65.0M |

## Zero Fare - Funding Recommendations

- Policy provides for a three year pilot - with funding step down
- Projects were evaluated and prioritized using the policy criteria
- Tier I Projects - recommended for multiyear funding (FY22, FY23, FY24)
- GRTC, Alexandria, and MEOC - Systemwide Zero Fare
- Fairfax County - Low Income Pass Program
- Tier II Projects - recommend continuing to work with applicants and advancing as funding becomes available
- CAT, FRED - Systemwide Zero Fare
- Based on current projections, funding would become available in FY24


## Zero Fare- Funding Recommendations

|  | FY22 | FY23 | FY24 | Total |
| :---: | :---: | :---: | :---: | :---: |
| Available Funding | \$12.5M | \$3.7M | \$5.6M | \$21.8M |
| GRTC-Richmond | \$4.5M | \$2.5M | \$1.0M | \$8.0M |
| Alexandria-DASH | \$2.5M | \$2.4M | \$2.2M | \$7.1M |
| MEOC | \$48K | \$36K | \$18K | \$102K |
| Fairfax County | \$2.2M | \$1.9M | \$1.3M | \$5.4M |
| Unallocated | \$3.3* | \$0 | \$1.0M | \$1.0M |

* FY22 unallocated will be fully utilized in FY23 to fulfill year 2


## Next Steps

- December 2021 -
- CTB Action to add recommended projects to the SYIP
- Execute multiyear funding agreements for pilot projects
- FY23 Grant Application Cycle Opens
- Solicit applications for Regional Routes projects as part of the regular grant cycle
- Spring 2022 -
- Incorporate additional Regional Routes projects into the FY23 SYIP, based on applications/prioritization
- Incorporate Tier 2 recommended Zero Fare pilot projects into the FY23 SYIP, as funding becomes available


## Transit Ridership Incentive Program (TRIP) Commonwealth Transportation Board-October 19, 2021

Jennifer DeBruhl, Chief of Public Transportation Department of Rail and Public Transportation


## PERIODIC REGULATORY REVIEW

| Jo Anne Maxwell, Director Governance and Legislative Affairs

## Periodic Regulatory Review—APA Requirement

$\square$ The Administrative Process Act requires any agency that adopts regulations to periodically review those regulations, including consideration of:

1) the extent to which regulations remain supported by statutory authority/do not duplicate/overlap/conflict with state or federal law;
2) the nature of complaints/comments received from the public;
3) whether the regulations are necessary for the protection of public health, safety and welfare;
4) whether the regulations are clearly written and easily understandable;
5) whether the regulations' economic impacts on small businesses and families are minimized as much as possible; and
6)the length of time since the regulation has been evaluated.

## Periodic Regulatory Review Process Authorities

-The Governor's Executive Order 14:

- specifies the process for conducting the periodic review
- requires that the review be performed on all regulations at least once every four years.
aChapter 444 of the 2018 Acts of Assembly
- requires the Department of Planning and Budget (DPB) to track and report to the General Assembly annually which agencies are complying with the periodic review requirements.


## Periodic Regulatory Review Process

$\square$ The agency posts a notice to the public on Virginia Town Hall that it is beginning a periodic review of one or more of its regulations
$\square$ The notice is published in the next edition of the Virginia Register of Regulations
$\square$ The agency collects public comment on the regulations
$\square$ Within 120 days of the end of the public comment period, the agency must report on its review, indicating one of the following:

- That the regulation will be retained "as is";
- That the regulation will be amended; or
- That the regulation will be repealed.


## Summary of Periodic Regulatory Review for CTB Regulations

$\square$ Thirty-three Chapters to be reviewed over three years, beginning 7/30/19:
$\square$ Review Schedule:

- 7 Chapters due 7/30/19
- 7 Chapters due 12/31/2019
- 3 (previously 6) Chapters due 6/30/2020
- 5 (previously 6) Chapters due 12/31/2020
- 8 (previously 7) Chapters due 6/30/2021
- 3 (previously 5) Chapters due 12/31/2021
$\square$ Process for each review period
- Workshop presentation describing regulation and proposed action for each regulation (retain, repeal, or amend)
- Resolution approving action and authorizing Commissioner to take all action necessary to implement approved action


# Periodic Regulatory Review <br> Three CTB Regulations to be Reviewed by December 31, 2021 

Chapter Number
Title
24 VAC 30-120 Rules and Regulations Controlling Outdoor Advertising and Directional and Other Signs and Notices

24 VAC 30-451 Airport Access Fund Policy
24 VAC 30-551 Integrated Directional Signing Program (IDSP) Participation Criteria

## Periodic Regulatory Review

Rules and Regulations Controlling Outdoor Advertising and Directional and Other Signs and Notices
(24 VAC 30-120)

- The CTB has authority to make regulations "with respect to the regulation and control of signs, advertisements and advertising structures" in § 33.2-1200 and § 33.2-1220.
- Consistent with requirements of federal law and regulation relating to highway beautification and outdoor advertising.
$\square$ Address key issues for advertisements, directional and other official signs such as size, spacing, lighting and administration of the regulations by the Commissioner of Highways.
- Originally adopted by the CTB in 1995. Amended in 2004.
- Necessary for the protection of the public; written to be understandable; no negative impact on small businesses.
- No Public Comments received
- Recommendation: Retain As Is.


## Periodic Regulatory Review

Airport Access Fund Policy (24 VAC 30-451)
$\square$ Per §33.2-1509, the CTB is authorized to allocate and expend funds to construct, reconstruct, maintain, or improve access roads to licensed, public-use airports.

- CTB adopted Airport Access Fund Policy and the Airport Access Program Guide is listed as a guidance document on Townhall
- Adopted as regulation in 1996. Last amended in 2012.
- Policy necessary for the protection of the public; written to be understandable; no negative impact on small businesses.
- No Public Comments received
- Recommendation: Repeal, retaining policy and Program Guide as a guidance document.


## Periodic Regulatory Review

Integrated Directional Signing Program (IDSP) Participation Criteria (24 VAC 30-551)

The CTB has authority to make regulations with respect to the regulation and control of signs in §33.2-1220. The CTB has authority to set fees for IDSP program participants pursuant to § 33.2218.

- Facilitates motorist awareness and accessibility to historical, cultural, or commercial attractions.

Addresses LOGO, TODS, Supplemental Guide signs, and General Motorist Services signs, but not advertisements.

- Adopted as regulation in 2006. Has not been amended, nor has it been subject to a periodic review.
- Necessary for the protection of the public; written to be understandable; no negative impact on small businesses.
- No Public Comments received
- Recommendation: Retain as is.


## Periodic Regulatory Review-Next Steps

$\square$ CTB will be presented with a resolution in December to approve recommended actions for the three CTB regulations reviewed this review period.
$\square$ VDOT will post results on Town Hall
$\square$ In the ensuing months and years, CTB will be presented with results of scheduled reviews and requests to approve recommended actions.

# Capital Project Revenue and Refunding Bonds, Series 2022 

October 19, 2021
Laura Farmer
Chief Financial Officer

## Authorization to Issue Capital Project Revenue Bonds

Chapter 896 (HB 3202) of the 2007 Virginia Acts of Assembly authorized the issuance of $\$ 3$ billion of Commonwealth of Virginia Capital Projects Revenue Bonds (CPR)

- 20\% dedicated to Transit Capital
- 4.3\% dedicated to Rail Capital
- Balance to be used to provide for federal match, enhance the Revenue Sharing Program and Statewide and Regional Projects
Annual sales limited to $\$ 300$ million, with carry over of unsold amount
Total authorization is limited to $\$ 3.23$ billion
- Initial authorization $\$ 3.0$ billion
- Increased in 2009 to $\$ 3.18$ billion to replace $\mathbf{\$ 1 8 0}$ million of General Funds (GF) provided in 2007 and subsequently taken
- Additional $\$ 50$ million authorized in 2018 through Chapters 854 and 856 to match federal funds provided for capital projects by the Washington Metropolitan Area Transit Authority (PRIIA Match)


## CPR Authorization

To date, the Commonwealth Transportation Board has issued $\$ 2.987$ billion of CPR bonds
Next sale of $\$ 96.6$ million planned for February 2022, leaving a balance of $\$ 146.6$ million Refunding $\$ 211.1$ million of Series 2012 for estimated NPV savings of $\$ 50.1$ million or $\mathbf{2 3 . 7 \%}$ of the refunded par value (Based on current rates)

The annual issuance amounts were accelerated in 2011 and 2012 by the Governor's Transportation Bill to allow for $\$ 1.8$ billion in CPR bonds

Bond proceeds are fully allocated in the SYIP. Sales are timed to support project spending

| CPR Bond Authorization Summary | (in millions) |
| :--- | ---: |
| Authorized | $\$ 3,230.0$ |
| Less: Sold May 2010 | 492.7 |
| Sold May 2011 | 600.0 |
| Sold May 2012 | 600.0 |
| Sold December 2014 | 300.0 |
| Sold May 2016 | 300.0 |
| Sold June 2017 | 284.1 |
| Sold May 2018 | 155.0 |
| Sold April 2019 | 255.0 |
| Planned sale February 2022* | 96.6 |
|  | $\$ 146.6$ |
|  |  |
| *Preliminary and Subject to Change |  |

## Use of the CPR Bonds

$\square$ CPR bonds have been allocated to the prescribed VDOT and DRPT programs each year since 2008
$\square$ The planned use of the full
$\$ 3.23$ billion authorization is as follows:

| CPR Bonds Use | Amount (in millions) | Percent Share |
| :---: | :---: | :---: |
| Transit Capital | \$600.0 | 20.0\% |
| Rail Capital | 129.0 | 4.3\% |
| Match Federal Funds | 1,044.8 | 34.8\% |
| Dulles Rail | 125.0 |  |
| PRIIA Match | 500.0 |  |
| Construction Projects | 419.8 |  |
| Revenue Sharing | 70.0 | 2.3\% |
| Project Funding | 1,156.2 | 38.5\% |
| Total 2007 Authorization | 3,000.0 | 100.0\% |
| 2009 GF Replacement |  |  |
| Transit / Rail | 60.0 |  |
| VDOT | 120.0 |  |
| Total GF Replacement | 180.0 |  |
| 2018 Authorization | 50.0 |  |
| Total | \$3,230.0 |  |

## Use of the CPR Bonds

The first sale in May 2010 was used to reimburse VDOT and DRPT for eligible project costs incurred prior to the sale and for DRPT transit and rail activity during FY 2011

The two $\$ 600$ million sales in FY2011 and FY2012 provided proceeds to continue the transit and rail components overseen by DRPT and to fund the projects accelerated by the 2011 Transportation Bill

The FYs 2014, 2016, 2017 and 2018 sales continued to accelerate and support the SYIP and the on-going transit and rail activities

The FY 2022 sale continues to support projects in the SYIP and the on-going transit and rail activities

## Debt Service Payments and Coverage

The first use of the revenues dedicated to the Priority Transportation Fund (PTF) is the debt service on the CPR bonds

The PTF revenue is provided from the Transportation Trust Fund in accordance with the distribution formula specified by Chapter 1230 of the 2020 Acts of Assembly of the Commonwealth of Virginia 2020 Regular Session (10.5\%)

| Priority Transportation Fund (in millions) |  |  |  |
| :---: | :---: | :---: | :---: |
| Fiscal Year Ending June 30: | $\begin{gathered} \text { Forecast } \\ 2022 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Forecast } \\ 2023 \\ \hline \end{gathered}$ |  |
| Allocation to the Transportation Trust Fund | \$ 1,883.5 | \$ | 1,959.6 |
| Allocation to Priority Transportation Fund | \$ 236.5 | \$ | 245.6 |
| Interest Earnings | 9.1 |  | 9.1 |
| Total Revenue ${ }^{(1)}$ | \$ 245.6 | \$ | 254.7 |
| Planned Issuance ${ }^{(2)}$ | \$ 96.6 | \$ | 146.6 |
| Coverage Ratio | 1.26x |  | 1.28 x |
| (1) Distribution refelcts adjustments pursuant to Enactm <br> (2) Preliminary; subject to change | e 11 of Chapt | $123$ |  |

For planning and debt management purposes, maintain a 1.15x revenue to debt service coverage ratio

## Capital Project Revenue Bonds, Series 2022 New Money and Refunding

| Summary Terms of New Money Offering* |  |
| :--- | :---: |
| Issuer | Commonwealth Transportation Board |
| Series | 2022 |


| Summary Terms of Refunding Offering* |  |
| :---: | :---: |
| Issuer | Commonwealth Transportation Board |
| Series | 2022 |
| Anticipated Ratings | AA+/Aa1/AA+ |
| Sale Date | February 8, 2022 |
| Security | The Series 2022 bonds are payable from and secured by revenues (i) first, from revenues deposited into the PTF, (ii) legally available revenues from the TTF, and (iii) from any legally available funds of the General Fund |
| Target Proceeds (in millions) | \$215.4 |
| Structure | Fixed rate serial bonds maturing annually |
| Final Maturity (years) | 15 |

*Preliminary; subject to change

VDCT

Next Steps


VDロT


# -PRPF. <br> Virginia Department of Rail and Public Transportation 

COMMONWEALTH of VIRGINIA
Office of the

SECRETARY of TRANSPORTATION

## Transportation Revenues and Opportunities

Nick Donohue Deputy Secretary of Transportation October 19, 2021

## Opportunity Costs of COVID Pandemic

- From the start of the pandemic through FY27 state transportation revenues are down $\$ 1.8$ billion from March 2020 estimates
- Opportunity costs across a variety of programs SMART SCALE, revenue sharing, Omnibus spending, State of Good Repair, transit, rail, Interstate program
- FY21 collections were $\$ 365.8 \mathrm{M}$ above estimates
- Will not know extent of revenue recovery until December revenue forecast


## Recommendations Moving Forward FY21 CTF Surplus

- Use Appropriations Act authority, Item 430 P, to restore anticipated FY22 Omnibus spending
- \$39.8M for transit
- \$10M for safety
- Recommend Board select \$295M in priority projects from SMART SCALE Round 4 project list
- Ensure equitable distribution of funds throughout the state through approximate use of DGP formula
- SMART SCALE was subject to the single largest reduction in available funding


## Priority Projects from SMART SCALE Round 4

| District | Percentage | FY2022 <br> PTF |
| :--- | ---: | ---: |
| Bristol | $6.7 \%$ | $\$ 19.8$ |
| Culpeper | $6.3 \%$ | $\$ 18.7$ |
| Fredericksburg | $7.0 \%$ | $\$ 20.5$ |
| Hampton <br> Roads | $20.0 \%$ | $\$ 58.9$ |
| Lynchburg | $7.1 \%$ | $\$ 21.0$ |
| NOVA | $21.3 \%$ | $\$ 62.8$ |
| Richmond | $14.5 \%$ | $\$ 42.7$ |
| Salem | $9.4 \%$ | $\$ 27.8$ |
| Staunton | $7.8 \%$ | $\$ 22.9$ |
| Grand Total | $\mathbf{1 0 0 . 0}$ | $\mathbf{\$ 2 9 5 . 0}$ |

- Recommend that $\$ 295$ million from the CTF Surplus be used by the Board to fund priority projects from SMART SCALE Round 4
- Funds allocated generally in line with District Grant Program percentages


## Proposed Allocations to Priority Projects

| District | Project | Applicant | Amount |
| :--- | :--- | :--- | ---: |
| Bristol | US 23 at Hilton Road | Scott County | $\$ 3.1 \mathrm{M}$ |
| Bristol | College Ave Access Mgt | Town of Bluefield | $\$ 2.6 \mathrm{M}$ |
| Bristol | Widen US 11 Eastern <br> Section | Bristol MPO | $\$ 13.4 \mathrm{M}$ |
| Culpeper | Route 29 and Lees Mill <br> Road R-CUT | Rappahannock- <br> Rapidan RC | $\$ 6.8 \mathrm{M}$ |
| Culpeper | Route 522 and Route 20 <br> Roundabout | Orange County | $\$ 10.9 \mathrm{M}$ |

## Proposed Allocations to Priority Projects

| District | Project | Applicant | Amount |
| :--- | :--- | :--- | ---: |
| Fred'burg | US 1 STARS/Route 3 Off- <br> Ramp | City of <br> Fredericksburg | $\$ 9.5 \mathrm{M}$ |
| Fred'burg | Onville Road <br> Improvements | George Washington <br> Regional Comm. | $\$ 8.5 \mathrm{M}$ |
| Hampton <br> Roads | Route 10/32 Diverging <br> Diamond Interchange | City of Suffolk | $\$ 12.9 \mathrm{M}$ |
| Hampton <br> Roads | Route 17 Widening | City of Suffolk | $\$ 9.8 \mathrm{M}$ |
| Hampton <br> Roads | Route/Route 171 <br> Intersection Improvements | York County | $\$ 16.7 \mathrm{M}$ |

## Proposed Allocations to Priority Projects

| District | Project | Applicant | Amount |
| :--- | :--- | :--- | ---: |
| Hampton <br> Roads | Main Street/US 258 at <br> Route 10 Bypass | Isle of Wight | $\$ 8.5 \mathrm{M}$ |
| Hampton <br> Roads | Route 168/Route 17 to WB <br> I-64 Improvements | City of Chesapeake | $\$ 8.1 \mathrm{M}$ |
| Lynchburg | High Street and Oak <br> St/Griffin Blvd Roundabout | Town of Farmville | $\$ 14.8 \mathrm{M}$ |
| NOVA | Sycolin Road-Loudoun <br> Center PI to Crosstrail Blvd | Loudoun County | $\$ 15.1 \mathrm{M}$ |
| NOVA | North Woodbridge Mobility <br> Improvements | Prince William <br> County | $\$ 25.3 \mathrm{M}$ |
| NOVA | Braddock Rd at Old Lee <br> Rd Improvements | Fairfax County | $\$ 16.0 \mathrm{M}$ |

## Proposed Allocations to Priority Projects

| District | Project | Applicant | Amount |
| :--- | :--- | :--- | ---: |
| Richmond | Gillies Creek Greenway | City of Richmond | $\$ 3.8 \mathrm{M}$ |
| Richmond | Clay St Streetscape <br> Improvements | City of Richmond | $\$ 8.3 \mathrm{M}$ |
| Richmond | Alverser at Old <br> Buckingham Roundabout | Chesterfield County | $\$ 7.9 \mathrm{M}$ |
| Richmond | James River Branch Trail | City of Richmond | $\$ 14.3 \mathrm{M}$ |
| Richmond | Matoaca Rd at <br> Woodpecker Rd Rndabout | Chesterfield County | $\$ 7.1 \mathrm{M}$ |

## Proposed Allocations to Priority Projects

| District | Project | Applicant | Amount |
| :--- | :--- | :--- | :---: |
| Salem | Orange Avenue <br> Improvements | Roanoke Valley <br> TPO | $\$ 23.7 \mathrm{M}$ |
| Staunton | Route 42 Corridor <br> Improvements East | Northern <br> Shenandoah Valley <br> Reg. Commission | $\$ 2.7 \mathrm{M}$ |
| Staunton | Broad St Streetscape | City of Waynesboro | $\$ 7.2 \mathrm{M}$ |
| Staunton | I-81 Exit 317 NB Ramp <br> Realignment | Frederick County | $\$ 6.9 \mathrm{M}$ |
| Staunton | Route 11/Old Charles Town <br> Roundabout | Win-Fred MPO | $\$ 6.4 \mathrm{M}$ |

## Next Steps for FY21 CTF Surplus

- Receive feedback from Board members and public on allocation strategy and potential allocations
- Determine allocations for \$24.7M in unallocated funds
- Finalize list of allocations for action by Board at December Board meeting


## Moving Pieces for Additional Restoration of Opportunity Costs

- FY22 through FY27 state transportation revenue estimates will not be updated until December
- Federal infrastructure bill and 'reauthorization' proposal is pending in Congress
- Current federal program expires at the end of the October - operating under 1 month extension
- Action is anticipated prior to this expiration
- GF Surplus for transportation is subject to appropriation during the 2022 GA Session


## Discussion of December Forecast Options

- First quarter of FY22 revenues were 16.5\% over FY21 Q1 collections
- Current FY22 estimate requires a (2.4\%) growth rate
- To meet pre-COVID FY22 estimates a 6.4\% growth rate would be required over FY21 collections
- FY21 Q1 collections proportionally are lower for fuel tax and motor vehicle sales and use tax compared with previous fiscal years


## Discussion of December Forecast Options

Assuming December forecast increases revenues over the 6 -year window recommend two tiers of priority for restoring previous cuts

- Tier 1 - \$258.6M
- Would require an increase of $\sim \$ 45 \mathrm{M} /$ year over 6-year forecast period
- Tier 2 - Any remaining funds be distributed through the Commonwealth Transportation Fund formula


## Discussion of December Forecast Options

## Tier 1 Recommendations

- Move Revenue Sharing Program up to FY23/FY24 from FY25/26-\$200 million
- Allows upcoming cycle to shift to FY25/26
- Program would continue in years 3 and 4 of SYIP
- Option to consider using \$30M in FY21 GF Surplus to provide funds to projects that will spend funds in FY22
- Both recommendations would require GA action during upcoming session


## Discussion of December Forecast Options

## Tier 1 Recommendations

- Distribution of \$58.6M in FY23 Omnibus spending would be as follows-
- \$32.5M to construction programs
- \$17.9M to transit programs
- \$5.2M to rail
- \$3M for other modes and agencies


## Discussion of December Forecast Options

Recommend that any funds above that amount be distributed based on CTF formulas-

- 51\% to Highway Maintenance and Operating Fund
- Amounts necessary to cover any increases in maintenance costs with remaining amounts distributed to construction programs
- 26.0\% to Construction Programs
- 11.3\% to Commonwealth Mass Transit Fund
- $3.7 \%$ to the Commonwealth Rail Fund
- 8\% to other modes, funds and agencies


## Recommendations Moving Forward

- Board should allocate FY21 CTF Surplus by December 2021
- Must wait for 2022 General Assembly Session to use FY21 GF Surplus for transportation
- Must wait for Congressional action prior to assuming the use of any additional federal funds beyond those already assumed in SYIP
- Consider impacts of December forecast in January

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## SMART SCALE ROUND 5

Proposed Changes
October 19, 2021

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## SMART SCALE Overview

- Safety - reduce the number and rate of fatalities and severe injuries
- Congestion - reduce person hours of delay and increase person throughput
- Accessibility - increase access to jobs and travel options
- Economic Development - support economic development and improve goods movement
- Environmental Quality - improve air quality and avoid impacts to the natural environment
- Land Use - support and improve non-work accessibility

Scoring based on outcomes, not the size of the problem


## Summary Round 5 Proposed Changes

## - Environmental Quality Measures

- E. 1 (Air Quality)
- E. 2 (Impact to Natural and Cultural Resources)
- Round 2 change - address issue of projects with no other benefits getting funded by this measure
- Round 4 change - made measure subtractive
- Land Use Measure
- Cost Estimates


## Environmental Measures

- CTB Member(s) Request
- Interest in enhancing E. 1 Quantify Greenhouse Gas (GHG) Emissions
- Increased Scrutiny on E. 2 measure as a negative measure
- Environmental Working Group Established in Early June
- District POCs, OIPI, VDOT CO Environmental
- Additional Support/Stakeholders
- Cambridge Systematics
- DEQ


## Environmental E. 1 - Air Quality

## 1. Current Process/Methods

2. Potential Qualitative Improvements
3. Potential Quantitative Improvements

Round 4 Observations

- Intent of E. 1 Measure is to reduce Greenhouse Gas Emissions
- Can it be improved or benefits better quantified?


## Strategies to Improve Air Quality and Reduce GHG

1. Reduce Vehicle Miles Traveled (VMT) / Increase Non-Single Occupancy Vehicle (Non-SOV) VMT
2. Reduce vehicle delay to reduce fuel use per mile
3. Technological change including improved vehicle efficiency, electrification, and using low carbon fuels
4. Reduce Impacts to Natural Resources

## Current E. 1 (Air Quality) Overview

Potential of project to improve air quality and reduce greenhouse gas (GHG) emissions


## Proposed Qualitative Improvements

- Increase Non- SOV Component
- Currently all points are totaled and multiplied by increase in all non-SOV users
- Results in points given credit based on users from other categories
- Propose multiplying by non-SOV increase for respective category - (eg Bike, Ped, transit...)
- Freight Component with Reduced Delay
- Non-SOV Users and Freight Component are not in the same unit
- Freight requires reduced delay greater than zero, but captures existing truck volumes
- Propose normalizing separately, and equal weight the two categories
- Propose scaling by delay reduction
- Special Accommodations Point Category
- Policy Guidelines are not clear on the Federal / State Level - Sale of Non-Food
- Federal Grant money is proposed


## Example - Lafayette Boulevard Multimodal Improvements



## Results Summary



## Proposed Quantitative <br> Calculate $\mathrm{CO}_{2}$ Offset

## Use existing collected data for High Level Analysis

- Increase in non-SOV users - currently calculated for E. 1
- Hours of delay reduced - currently calculated for C. 2
- Trip Length - national averages, and SS analysis segment length (C.1/C.2)
- Emissions factors - average passenger car fuel efficiency
- Fuel use factor - from delay reduced (gallon/hour)


## Two Parts

## Non-SOV CO2 Offset + Reduced Truck Delay CO2 Offset

## Proposed Quantitative Non-SOV CO 2 Offset

1. Increased Non-SOV VMT

- Transit and Park \& Ride Users - multiply new users by the analysis trip length
- Pedestrians - multiply total new users by 0.67 miles*
- Bicyclists - multiply total new users by 3.54 miles*
*Average Person Trip Length

2. Increased Non-SOV VMT - Sum Above
3. Non-SOV CO2 Offset (Apply Fuel Efficiency and Emissions Factors)

Non-SOV VMT $\times 1$ gallon gas $\times 8.9 \mathrm{~kg} \mathrm{CO}_{2}$
24 miles 1 gallon gas

## Proposed Quantitative <br> Freight $\mathrm{CO}_{2}$ Offset

1. Reduced Truck Delay - Get Back to Vehicle Hours of Delay (VHD)

- Divide total Person-Hours of Delay (PHD) by 1.2 Person/Vehicle

2. Reduced Truck Delay - Heavy Vehicle Hours of Delay (HVHD)

- Multiply VHD by project weighted average truck percent

3. Heavy Vehicle $\mathrm{CO}_{2}$ Offset (Apply Gas \& Emissions Factors)

$$
\text { HVHD (hours) } \times \frac{0.44 \text { gallons }}{1 \text { hour }} \times \frac{8.9 \mathrm{~kg} \mathrm{CO}_{2}}{1 \text { gallon gas }}
$$

Final Measure is sum of two values

1. Non-SOV CO2 Offset
2. Freight CO2 Offset

## Example - Lafayette Boulevard Multimodal Improvements

|  |  | Non-SOV CO2 Offset |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Factor | In App? | Supporting Information | Increased Users |  | Trip Length (miles) |  | VMT |
| Rail | X |  |  |  |  |  |  |
| Bike |  | Route 208 PNR lot - 10 bicycle lockers and 10 covered bicycle parking spaces | 0.0 | X | 3.54 | = | 0.0 |
| Pedestrian |  | $2000 \mathrm{ft} \mathrm{sidewalk} \mathrm{on} \mathrm{the} \mathrm{eastside} \mathrm{of} \mathrm{Lafayette} \mathrm{Blvd} \mathrm{(Sheetz} \mathrm{to} \mathrm{Family} \mathrm{Dollar)}$ | 22.0 | X | 0.67 | = | 14.7 |
| Park and Ride |  | Route 208 PnR Lot - Add Transit Stations, Lighting, Bicycle Lockers/Parking | VMT Summed by Segment $=122.8$ |  |  |  |  |
| Bus | $\sqrt{ }$ VRE Feeder Service and Bus Stop Improvements | VRE Feeder Service and Bus Stop Improvements | VMT Summed by Segment $=200.9$ |  |  |  |  |
| Non-SOV VMT 338.4 |  |  |  |  |  |  |  |
| Non-SOV CO2 Offset (kg) |  |  | $\times \frac{1 \text { galloo gas }}{24 \text { miles }} \times \frac{8.9 \mathrm{~kg} \mathrm{CO}}{2}$  <br> 1 gallon gas 125.5 |  |  |  |  |


| Freight $\mathrm{CO}_{2}$ Offset |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Total Delay Reduction (Person-Hours) | $\div$ | Persons/Vehicle | X | \% Trucks |
| 5.8 | $\div$ | 1.2 | X | 0.13 |
|  |  | Freight Delay Reduction (hours) |  | 0.63 |
|  |  | Freight $\mathrm{CO}_{2}$ Offset (kg) | $\frac{0.44 \text { gallons }}{1 \text { hour }} \times \frac{8.9 \mathrm{~kg} \mathrm{CO}}{1} 2$ | 2.46 |
| Total $\mathrm{CO}_{2}$ Offset 128.0 |  |  |  |  |

## Propose Combining Quantitative and Qualitative

## Impacts to E. 1 Measure Top Scoring

## Final Proposed E. 1 Score

- Weight Qualitative Method - 50\%
- Weight Quantitative Method - 50\%

| Rank E. 1 <br> Current | Rank E. 1 <br> Proposed | Display ID | Project Title |
| :---: | :---: | :---: | :---: |
| 1 | 5 | 6867 | Route 208 Operational and Multimodal Improvements |
| 2 | 1 | 7198 | Intercity Rail Service Expansion along US-29 \& I-81 Corridors |
| 3 | 7 | 6806 | Rt 2 \& 17 Widening from City Line to Shannon Airport Area |
| 4 | 8 | 6719 | Lafayette Boulevard Multimodal Improvements |
| 5 | 9 | 7076 | Town of Bowling Green US 301/Chase Street |
| 6 | 11 | 6738 | Weyers Cave Road (Rt. 256) Turn Lane Project |
| 7 | 3 | 6842 | I-64 WB Widening (Exit 211 to Exit 205) |
| 8 | 4 | 6822 | Route 1 (Fraley Boulevard) Widening |
| 9 | 31 | 6815 | BRITE Pedestrian Improvements |
| 10 | 14 | 6799 | I-81/Route 8 (Exit 114) Park \& Ride Lot |
| M | Rank E. 1 <br> Proposed | Display ID | Project Title |
|  | 2 | 6948 | Mount Vernon Trail North Enhancements |
|  | 6 | 6858 | Upper King Street Multimodal Reconstruction |
|  | 10 | 6809 | Rte 15 Leesburg Bypass Interchange with Edwards Ferry Road |

## E. 2 (Impact to Natural and Cultural Resources) - Overview

Potential of project to minimize impact on natural and cultural resources located within project buffer


## E. 2 Process Improvements

- Impact Buffer Acres
- Proposed tiering approach
- Features selected
- Tier $1=30 \mathrm{ft}$
- Tier 2 = 1/8 mile
- Tier 3 = $1 / 4$ mile
- Sensitive Areas
- Environmental Division will review for validity every round


## Examples

| Project Feature | E.2 Tier |
| :--- | :---: |
| Road Diet | $\mathbf{1}$ |
| Roadway Reconstruction/Realignment | $\mathbf{1}$ |
| Shoulder Improvement(s) | $\mathbf{1}$ |
| TDM Other | $\mathbf{1}$ |
| Traffic Signal Modification | $\mathbf{1}$ |
| Turn Lane Improvement(s) | $\mathbf{1}$ |
| Widen Existing Lane(s) (No New Lanes) | $\mathbf{1}$ |
| Construct/Expand Bus Facility | $\mathbf{2}$ |
| Freight Rail improvements | $\mathbf{2}$ |
| Improve Park and Ride Lot | $\mathbf{2}$ |
| New Intercity Passenger Rail Station or Station Improvements | $\mathbf{2}$ |
| New Park and Ride Lot | $\mathbf{2}$ |
| New Station or Station Improvements | $\mathbf{2}$ |
| Right-of-Way/Easements acquisition required | $\mathbf{2}$ |
| Add New Through Lanes(s) | $\mathbf{3}$ |
| Highway Other | $\mathbf{3}$ |
| Improve/replace existing bridge(s) | $\mathbf{3}$ |
| Managed Lane(s) (HOV/HOT/Shoulder) | $\mathbf{3}$ |
| New Bridge | $\mathbf{3}$ |
| New Interchange, Limited Access Facility | $\mathbf{3}$ |
| New Interchange, Non-Limited Access Facility | $\mathbf{3}$ |
| Rail Transit Other | $\mathbf{3}$ |
| Roadway on New Alignment | $\mathbf{3}$ |

## E. 2 Outcomes

## - Improved Distribution

- Projects in Tier 1 (30' buffer) either improved in SMART SCALE rank or remained at the exact same rank
- Projects in Tier 2 (1/8th mile) projects on average changed by less than one position in SMART SCALE rank
- Projects in Tier 3 (1/4th mile) fell an average of 4 positions in SMART SCALE rank
- Statewide - only 2 projects impacted in funding scenario


## Land Use

- Land Use has two components: Future Transportation Efficient Land Use (L.1) and Increase in Transportation Efficient Land Use (L.2)
- What they have in common is - the non-work accessibility, or the number of key non-work destinations that are accessible within a reasonable walking distance, scaled by population density


## Round 4 Observations

- Concerns that 3 mile buffer is excessive to consider reasonable.
- Large component of score, should other Area Types be considered for Land Use?


## Land Use

- Multiple Scenarios Tested
- Apply Land Use to all Area Types
- Weighting Changes for Type C \& D Considered
- Use a 1 Mille Buffer instead of 3 Mile Buffer
- 1 mile walk is closer to the average pedestrian trip length


## Potential Weighting Adjustments

| Existing |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area <br> Type | Congestion | Safety | Accessibility | Environment | Economic Development | Land Use |
| A | 45\% | 5\% | 15\% | 10\% | 5\% | 20\% |
| B | 15\% | 20\% | 25\% | 10\% | 20\% | 10\% |
| C | 15\% | 25\% | 25\% | 10\% | 25\% |  |
| D | 10\% | 30\% | 15\% | 10\% | 35\% |  |


| Proposed |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Area <br> Type | Congestion | Safety | Accessibility | Environment | Economic <br> Development | Land <br> Use |
| A | $45 \%$ | $5 \%$ | $15 \%$ | $10 \%$ | $5 \%$ | $\mathbf{2 0 \%}$ |
| B | $15 \%$ | $20 \%$ | $20 \%$ | $10 \%$ | $20 \%$ | $15 \%$ |
| C | $15 \%$ | $25 \%$ | $15 \%$ | $10 \%$ | $25 \%$ | $10 \%$ |
| D | $10 \%$ | $30 \%$ | $10 \%$ | $10 \%$ | $30 \%$ | $10 \%$ |



## Cost Estimates

- August 2, 2021 VDOT Published Cost Estimating Manual and an associated Implementation Plan (IIM)
- Cost Estimate Workbook (Consistent Summary and Transparency)
- Cost Estimating Manual Overview Training
- Currently Internally Available
- VDOT University Winter 2022
- In-Person, In-Depth Training by District (Winter 2022)


## Next Steps

- November
- Deeper Dive into Land Use
- Intake Public Comments
- December
- Seeking Action Round 5 Policy Changes
- Release Updated Technical Guide


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Virginia Transportation Infrastructure Bank
Advisory Panel Recommendation
Capital Beltway Express, LLC
I-495 Express Lanes Northern Extension
Commonwealth Transportation Board Deputy Secretary Donohue
October 19, 2021

## Virginia Transportation Infrastructure Bank

- Established in 2011 to provide loans to finance transportation projects
- Purpose is to encourage public and private investment in transportation infrastructure
- Guidelines are established by the Board. The most recent update to the guidelines were approved on September 21, 2016
- Eligible projects including all forms of surface transportation
- Eligible applicants include localities, transit agencies, regional entities, private entities


## VTIB Activity to Date

## \$332 million in loans closed since creation

- City of Chesapeake (Dominion Boulevard) - \$151M loan closed in November 2012
- Loudoun County IDA (Pacific Boulevard Extension Project) \$36M Ioan closed in December 2013
- Chesapeake Bay Bridge Tunnel District (Parallel Thimble Shoal Tunnel) - \$50M Ioan closed in November 2016
- City of Alexandria (Potomac Yard Metrorail Station) - \$50M Ioan closed in December 2016
- 95 Express Lanes LLC (I-395 Express Lanes) - \$45M loan closed in July 2017


## VTIB Balance

- Total capitalization to date of $\mathbf{\$ 3 1 1 . 4 M}$
- $\$ 32.7$ million General Fund from FY 2010 surplus
- $\$ 250.0$ million from Commonwealth Transportation Fund
- $\$ 28.7$ million General Fund from FY 2011 surplus
- $\$ 70.7 \mathrm{M}$ in interest earnings on the fund, the HMOF and the Construction Fund
- Repayments to date of $\mathbf{\$ 5 0 . 3 M}$ (as of September 30, 2021)
- Total funding available for loans is $\sim \$ 133 \mathrm{M}$
- Anticipated principal and interest repayments for the next 6 years total $\$ 39.3 \mathrm{M}$ (Fiscal Year 2022 through Fiscal Year 2027)


## I-495 Express Lanes Northern Extension "Project NEXT"



Capital Beltway Express, LLC has requested a loan of up to \$49M plus capitalized interest for up to 5 years

VTIB loan will be secured by a subordinate pledge of toll revenues from entire 495
Express Lane system

## Project NEXT - Construction Status

- Project has completed the NEPA Process
- Project to be constructed under $\$ 441.7 \mathrm{M}$ designbuild contract awarded in September 2021
- Construction expected to begin around December 2021/January 2022
- Completion is anticipated in mid-2026
(Dates are subject to change)


## VTIB Eligibility and Screening Criteria

- Project meets the Bank's mandatory criteria
- Eligible borrower under the Act
- Project is a local and regional transportation priority
- Application scored 21 out of 30 possible points by VDOT and VRA Staff using VTIB scoring criteria
- Readiness and Acceleration - 5 out of 9 points
- Impact on VTIB Lending Capacity - 6 out of 11 points
- Benefits of Project - $\mathbf{1 0}$ out of 10 points


## Project NEXT Sources of Funding

- Senior Lien Revenue Bonds - Private Activity Bonds (PABs)
- \$137,474,000 for Project NEXT
- \$224,660,000 to refund existing debt
- Transportation Infrastructure Finance and Innovation ("TIFIA") Loan
- \$227,866,000 for Project NEXT
- \$828,708,000 to refund existing debt
- Subordinate to senior obligations with springing lien provisions
- VTIB Loan
- \$49,000,000 million plus capitalized interest
- On parity with TIFIA, no springing lien provision
- Equity
- $\$ 327,459,000$ million in Equity Funding
- Will include a Letter of Credit
*Amounts are subject to change; Refunding amounts refinance outstanding project company debt


## VTIB Loan Structuring

- 2.59\% fixed interest rate
- 2-year drawdown of funds starting in December 2021
- Capitalized Interest through December 2026
- Anticipated repayment (Dates subject to change)
- Interest payments begin June 2027
- Minimal principal payments begin June 2030
- Principal payment ramp-up period beginning in 2041
- Level mandatory debt service beginning in 2051 through the of the life of the loan, ending in 2060
- Assumed additional senior indebtedness and distribution requirements
- 1.45x senior debt service coverage
- $1.35 x$ total debt service coverage
- 1.35x loan life coverage ratio (LLCR)
- 2.30x project life coverage ratio (PLCR)
- Additional leveraging for distributions requires partial prepayment


## Advisory Panel Recommendations

- The Advisory Panel recommends the CTB approve the loan request
- VTIB Loan closing conditions
- Subordinate Pledge of Total System Revenues
- Loan subordinate to Senior PABs but on parity with TIFIA
- Debt service coverage, LLCR, and PLCR Requirements Consistent with TIFIA
- Funding of Debt Service, O\&M, and Major Maintenance Reserves
- Execution of Fixed-Price Design-Build Contract (Satisfied)
- Execution of the Second ARCA
- Independent Audit of the Transurban Financial Model
- Completion of Lenders' T\&R Report (Satisfied)
- Completion of Lenders' Technical Advisor Report
- Final Investment Grade Ratings, including rating for VTIB loan
- VTIB Loan Closing Concurrent with Project NEXT and Existing CBE Refinance Closings


## Risk Considerations

- Construction Risk
- Straight forward project with same parties as existing 495 Express Lanes and fixed-price, design-build contract
- Payment and performance bonds, guarantee from Design-Build contractor
- Equity contribution backed by acceptable letter of credit or guarantee
- Design-build risk pool with VDOT
- Independent Lenders' technical advisor review
- Applicant Risk
- Managed lane expertise and commitment to region
- Strong ownership group
- Loan covenants provide protection against additional debt and distributions
- Concession Agreement Risk
- Exclusive rights to assets and discretion over rate setting
- Lender protections reflected in the Second ARCA


## Risk Considerations

- Interest Rate Risk
- Base Case projections assume debt at conservative interest rate levels
- Revenue Risk
- Large metropolitan area with congestion and strong socio-economic trends
- Could sustain significant decrease in total annual system revenues and still pay all debt service in each year
- Resiliency to stress case scenarios (including extended COVID recovery period and increased work from home)
- Revenue uplift from future managed lane projects would enhance revenues
- Operations and Maintenance Risk
- Same operator as existing I-95, I-395, and I-495 Express Lanes
- Independent Lenders' technical advisor review


## I-495 Express Lanes Northern Extension Risk Considerations (Continued)

- Debt and Refinance Risk
- TIFIA and VTIB scheduled debt provides flexibility in stress events without default
- Refinance of existing CBE debt results in substantial interest rate savings; will be VTIB loan closing requirement


## Project NEXT

- Recommend Board approve VTIB loan
- VTIB will have borrowing capacity of $\$ 84 \mathrm{M}$ if requested amount is approved
- Without approval Project NEXT will require restructure other debt and may impact timing USDOT approval of TIFIA loan

