

#### COMMONWEALTH of VIRGINIA

#### Commonwealth Transportation Board

Shannon Valentine Chairperson 1401 East Broad Street Richmond, Virginia 23219 (804) 786-2701 Fax: (804) 786-2940

#### COMMONWEALTH TRANSPORTATION BOARD WORKSHOP AGENDA

VDOT Central Auditorium 1221 East Broad Street Richmond, Virginia 23219

January 14, 2020 10:00 a.m.

- 1. USDOT Routes Initiatives
  Thomas Nelson, Virginia Administrator, Federal Highway Administration
- 2. Route 3 Business Over Rappahannock River Chatham Bridge: Special Use Permit Marcie Parker, Virginia Department of Transportation
- 3. Environmental Division Overview Angel Deem, Virginia Department of Transportation
- 4. Rail Industrial Access Presentation-Phoenix Packaging Operations, LLC-Jeremy Latimer, Virginia Department of Rail & Public Transportation
- 5. Update on Public Transportation in Virginia

  Jennifer DeBruhl, Virginia Department of Rail & Public Transportation
- 6. Update on Rail in Virginia

  Michael McLaughlin, Virginia Department of Rail & Public Transportation
- 7. Transportation Alternatives Program
  FY21/22 Application Update
  Russ Dudley, Virginia Department of Transportation
- 8. WAZE
  Rob Cary, Virginia Department of Transportation
  Dani Simons, Public Sector Partnerships at WAZE

Agenda Meeting of the Commonwealth Transportation Board Workshop Session January 14, 2020 Page 2

- 9. SmartScale Update Chad Tucker, Office of Intermodal Planning and Investment
- 2019 VTrans Vision, Goals, Objectives, Guiding Principles
   2019 Mid-term Needs Identification Methodology
   Jitender Ramchandani, Office of Intermodal Planning and Investment
- 11. Governor's Omnibus Transportation Bill Nick Donohue, Deputy Secretary of Transportation
- 12. Director's Items

  Jennifer Mitchell, Virginia Department of Rail & Public Transportation
- 13. Commissioner's Items
  Stephen Brich, Virginia Department of Transportation
- 14. Secretary's Items
  Shannon Valentine, Secretary of Transportation
  ####



#### COMMONWEALTH of VIRGINIA

#### Commonwealth Transportation Board

Shannon Valentine Chairperson 1401 East Broad Street Richmond, Virginia 23219 (804) 786-2701 Fax: (804) 786-2940

## COMMONWEALTH TRANSPORTATION BOARD WORKSHOP AGENDA

VDOT Central Auditorium 1221 East Broad Street Richmond, Virginia 23219

January 14, 2020 10:00 a.m.

1. USDOT Routes Initiatives
Thomas Nelson, Virginia Administrator, Federal Highway Administration

This presentation is currently unavailable.

###





# ROUTE 3 BUSINESS OVER RAPPAHANNOCK RIVER CHATHAM BRIDGE: SPECIAL USE PERMIT

Marcie Parker, Fredericksburg District Engineer January 14, 2019

## **Project Overview**

- \$23.4 million State of Good Repair bridge rehabilitation project
- Chatham Bridge connects Stafford County and downtown City of Fredericksburg
- Replacement of bridge travel surface, beams, railing, and lighting fixtures
- Repair of substructure and approaches
- Existing weight posting will be removed upon completion
- Project advertisement accelerated due to bridge condition





The Chatham Bridge was built in 1941, and is structurally deficient; It carries an average of 16,000 vehicles a day



## **Project Plan**





# **Project Schedule**

Detour sign installation and ramp improvements	Complete
Utility relocation	Underway
Project advertisement	January 2020
Project award	April 2020
Bridge closes to traffic	Late May 2020
Bridge opens to traffic	November 2021
Project complete	April 2022



## **Special Use Permit**

 National Park Service requires a special use permit granting access to their property for construction

- National Park Service has already signed the special use permit
- Board approval needed prior to Commissioner's signature





# **Environmental Division**

CTB Overview January 14, 2020

Angel Deem
Environmental Division Director



#### **MISSION**

#### **VDOT Mission:**

Our mission is to plan, deliver, operate, maintain, and support a transportation system that is safe, enables easy movement of people and goods, enhances the economy and improves our quality of life.

#### **Environmental Division Mission:**

Our mission is to facilitate regulatory compliance and environmental protection through leadership, accountability and continuous improvement while delivering the Commonwealth's transportation program.



#### **DIVISION STRUCTURE**

#### Division Director Angel Deem

Asst. Director – Project Development  Cooper Wamsley	Asst. Director – Project Delivery Ed Wallingford	Contracts & Business Support Patrick Hughes
NEPA Programs	Compliance	Procurement
Cultural Resources	Water Quality Permitting	Contract Management
Air & Noise	Threatened & Endangered Species	Administrative & Training Budgets
Procedures Management	MS4 Support	Data Administration

#### Central Office – 43 staff

- Procedures, Program Development
- Guidance, Technical Assistance
- Complex Project Management

#### 9 District Offices – approx. 100 staff

- Project Reviews & Clearances: NEPA, Water Quality Permitting, T&E Clearance, Compliance
- Regional Staff for Cultural Resource & Hazardous Materials



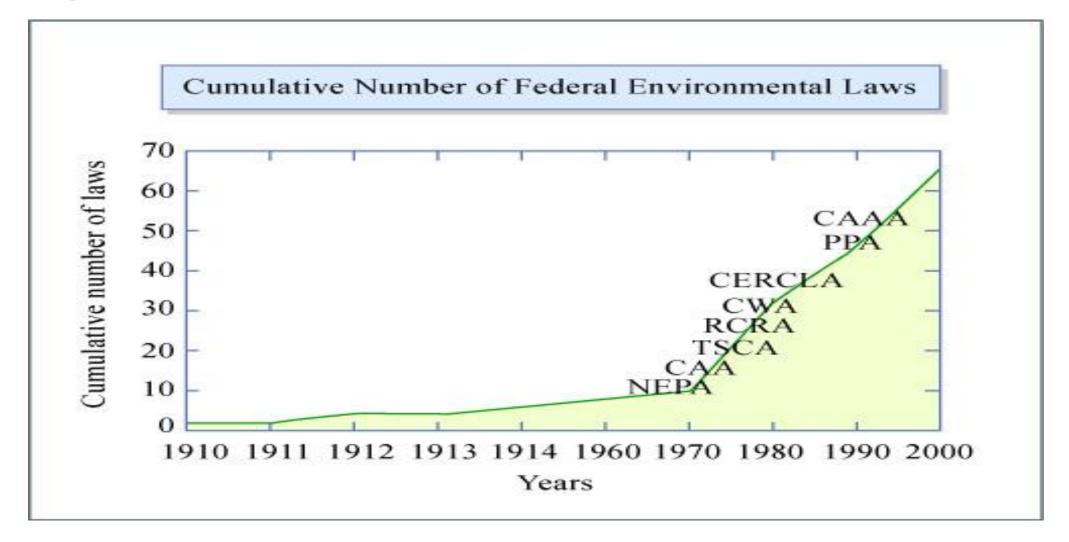
#### **Products and Services**

- Regulatory Clearances
- Negotiate and Manage Efficiencies
- Statewide Environmental Business Tools & Products
- Environmental Program Administration
- Technical Assistance and Coordination





## **Regulatory Clearances**





## **Regulatory Partners**









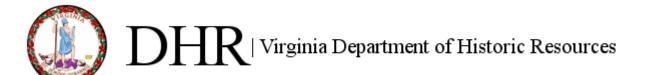
















#### Identification – Avoidance – Minimization - Documentation

#### **Resources:**



**Existing** Traffic



Noise



**Historic Structures** 



**Future Traffic Patterns** 



Wetlands & Streams



Archaeological Resources



Communities



**Water Quality** 



Parks & Recreation Areas



**Community Facilities** 



Floodplains



Hazardous **Materials** 



Farmland



**Forested Areas** 





Wildlife & Habitat Threatened & Endangered **Species** 



Air Quality



**Property** 



#### **Clearances & Commitments**

- NEPA Document Approval
- Permit Acquisition Conditions
- Project Design
- Time of Year Restrictions
- Contract Special Provisions & Copied Notes
- > (R&B Specs)



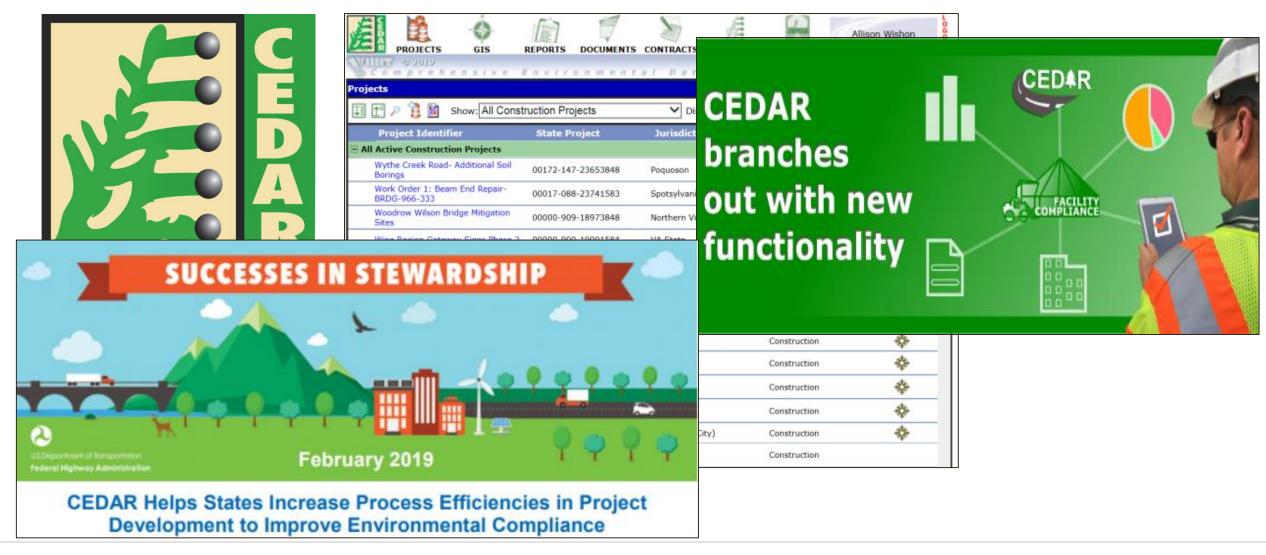


## **Negotiate and Manage Efficiencies**

- Streamlining Agreements with State Agencies
- Federal Agency Liaisons
- Programmatic Agreements
- Process Efficiencies
- State Agency Assistance



#### Statewide Environmental Business Tools & Products



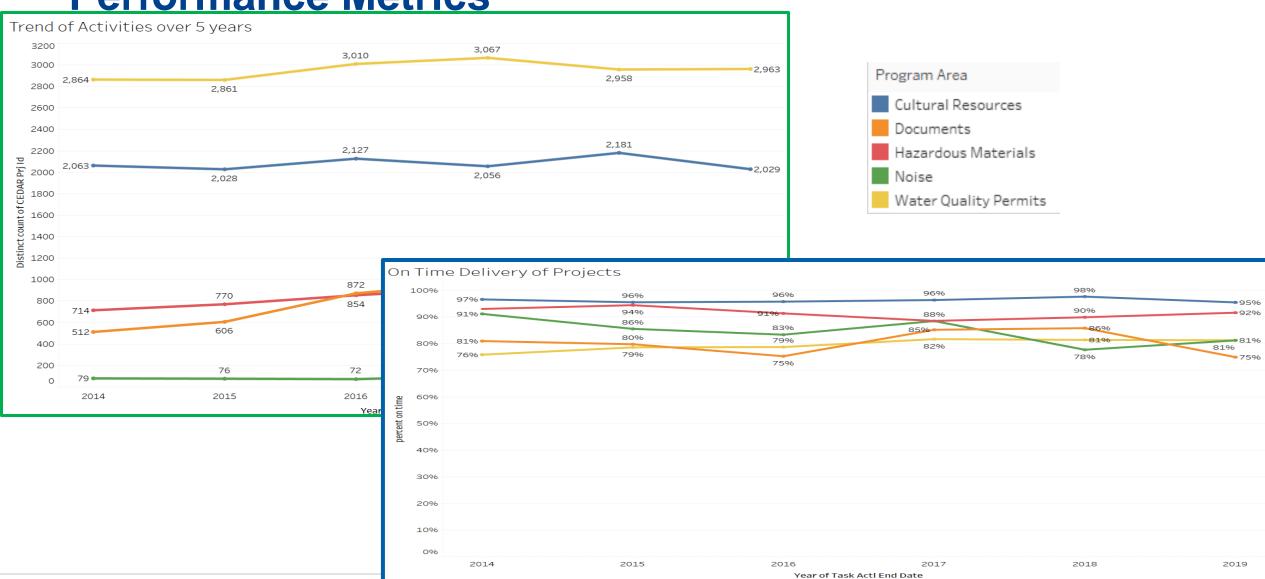


## **Environmental Program Administration**

- Environmental Memoranda
- Performance Metrics
- General Assembly
- Reviews of Proposed Regulation



## **Performance Metrics**





#### **Technical Assistance & Coordination**

- SME Resource for District Staff
- Specialized Programs (Chesapeake Bay TMDL, Air &Noise)
- Technical Advisor on Design-Build and P3
- Tools/Guidance for Locally Administered Projects
- Environmental Research



## **Environmental Staff in Action**





## **Environmental Staff in Action**





# Rail Industrial Access Program Application Briefing Phoenix Packaging Operations, LLC Pulaski County

**Commonwealth Transportation Board, January 14, 2020** 

Jeremy Latimer, Director of Rail Transportation Programs

Department of Rail and Public Transportation



## **Project Location**

Phoenix Packaging Operations, LLC, Pulaski County **Phoenix Packaging** Operations site Pulaski County



# **Project Location**



## **Project Overview and Background**

- Coordination with VEDP on the expansion since 2017.
- Phoenix has been working with the Port on incentives to increase shipments from the Port of Virginia.
- Phoenix Packaging Operations, LLC designs and manufactures rigid packaging solutions for commercial food and beverages, healthcare, and disposable consumer product industries.
- The expansion will serve national and international markets and will ship through the Port of Virginia.
- The facility will be served by Norfolk Southern Railroad.



## **Application Summary**

- Application for \$450,000 in Rail Industrial Access Funds
  - Applicant will provide minimum 30% match
  - \$30M Total Estimated Capital Expenditure (\$30M package of loans and incentives)
    - New 176,000 square foot warehouse and manufacturing facility
    - Build new rail spur
    - Extend a former RIA grant funded rail spur
      - \$450,000 Grant in 2012
      - Met requirements of 2012 grant 154 annual carloads
    - Approximately \$1M Rail Project Cost
    - Capital expenditures outside the \$450,000 grant will be paid for by the applicant as well as other state and local grants and incentives
  - Cost overruns responsibility of applicant



### **Public Benefits**

- Public Benefits:
  - Additional 296 railcars annual commitment (currently 164 carloads per year)
    - 1,006 additional trucks off of Virginia highways annually (currently 558 annual trucks)
  - 145 new jobs associated with expansion
  - 96% of shipping will be by rail
- Application scores 69 of 100 points
  - Minimum 50 points needed to be recommended to CTB
- Minimum threshold will be 10 new carloads



### **Questions?**

Jeremy Latimer <u>jeremy.latimer@drpt.Virginia.gov</u>

www.drpt.Virginia.gov

804-786-4440





# ○ Public Transportation in Virginia ■○

Statewide Economic Impacts of Public Transportation and Projected Near-Term Capital Needs



## **MERIT Transit Reforms Implemented**

- Capital Program Prioritization
  - » Methodology implemented with capital project funding in FY20
- Performance Based Operating Assistance
  - » Transition Formula/Transition Assistance in FY20
- Transit Strategic Plans
  - » Pilots nearing completion, several others underway
- Special Programs updated using the MERIT methodology
  - » Demonstration, Technical Assistance, Transportation Demand Management, Senior/Human Service



## **Major Studies/Initiatives Completed**

- Virginia Breeze Intercity Bus Expansion Study
  - » Two routes identified for expansion, service to begin in Spring/Summer 2020
- Coordinated Human Service Mobility Plan
  - » Identified priority areas for improvement in human service transportation
- Integrated Mobility Plan
  - » Autonomous Bus and Autonomous Shuttle projects underway
- Battery Electric Transit Buses
- Economic Impacts of Transit
- Transit Capital Needs Assessment



## **Transit Ridership in Virginia**

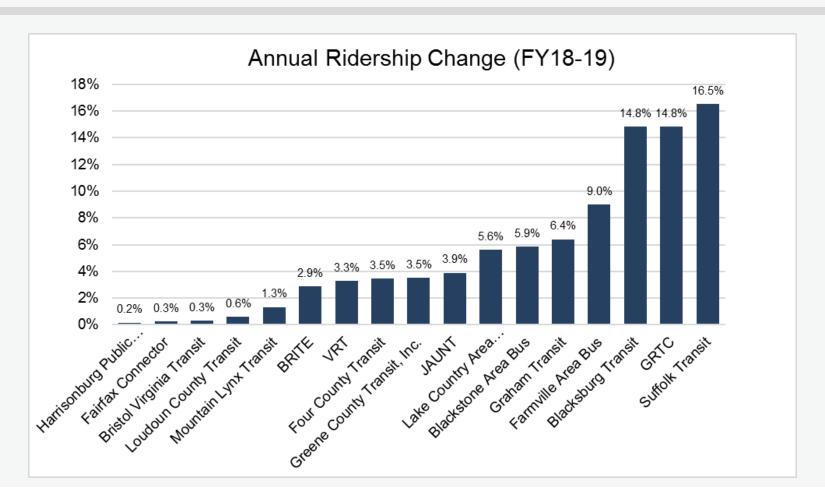
Forty-one agencies provide transit services in urban, suburban, and rural communities throughout Virginia. Ridership in many parts of the state is growing for the first time in 5 years, in contrast with national trends. In 2019, transit accounted for:

- O 172 Million Annual Riders
- 470,000 Daily Riders

- O 1 Billion
  Annual Passenger Miles Travelled
- 2.7 MillionDaily Passenger Miles Travelled



## **Ridership Trends**





#### **Economic Impacts of Transit**

The presence of transit as a travel option in communities throughout Virginia has a large annual impact on the economy of the state:

- Transit Supports:
  - 28,940
    Jobs Statewide

- Those Jobs Create:
  - \$1.9 Billion
    In Labor Income

- Generating:
  - \$3.5 Billion
    In Gross State Product
- And Brings Back:

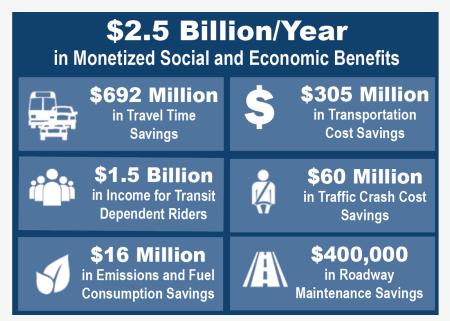


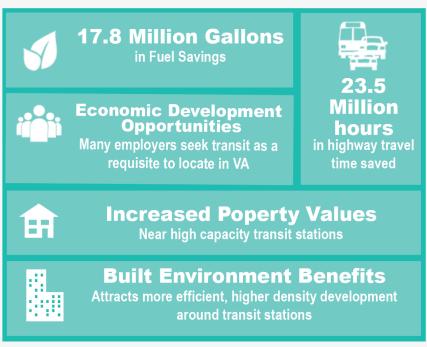
Every dollar of public investment in transit generates **\$2.91** in economic activity statewide.



#### **Economic Impacts of Transit**

The presence of transit also brings an impressive amount of additional monetized and qualitative social and economic benefits annually:







#### Capital Needs - Fall 2019 Update

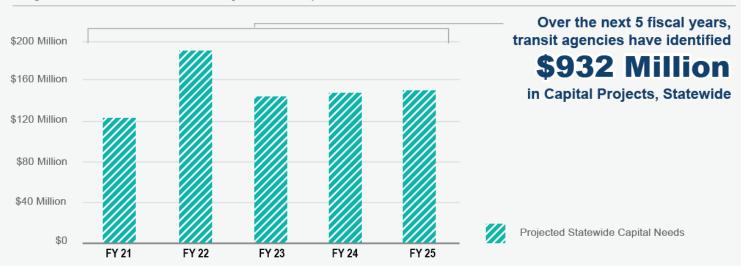
- Each Fiscal Year, transit agencies submit a 5-year capital budget that is included in the Six Year Improvement Program
  - » Includes projected capital expenses with <u>federal</u>, <u>state</u>, and <u>local</u> shares
- <u>Fall 2019 Update</u>: In order to improve the accuracy of these capital budget projects, DRPT staff engaged transit agencies throughout the state to:
  - » Account for recent changes in the use of the capital program WMATA, SMART SCALE, Toll Revenues
  - » Reassess revenues major de-obligated balances allocated, capital bonds programmed to projects
  - » Identify those "projects that will realistically be implemented" over the next 5 years with greater scrutiny and accuracy
- Moving forward, Transit Strategic Plans will provide better forecasts of needs to support improved capital forecasts.



#### **Statewide Capital Needs**

Continued capital investment is needed to ensure that Virginia transit agencies have sufficient funds to replace aging assets when needed and expand services where appropriate.

#### **Projected Statewide Transit Capital Needs, FY2021-25**



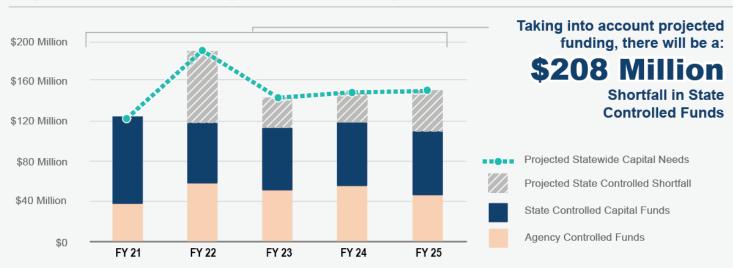
NOTE: Capital Needs for Washington Metropolitan Area Transit Authority (WMATA) are not included



#### **Statewide Capital Needs**

However, state controlled capital funds are projected to fall short of the needs that statewide agencies have identified.

#### **Projected Statewide Transit Capital Needs and Funding, FY2021-25**



NOTE: Capital Needs for Washington Metropolitan Area Transit Authority (WMATA) are not included



#### **Statewide Capital Needs**

To make up for the anticipated \$208 Million shortfall in statewide capital funds...

The state will need:

\$42 Million per Year

in Additional Capital Revenues



#### **Without Additional Resources**

- Identified needs are primarily for State of Good Repair (SGR)
- Limits on the use of federal funding
- Prioritization can be used to direct timing of funding, but the backlog of unfunded needs will increase over time
- Limited resources can be redirected from major expansion projects (20% of available funds) to SGR, but will not fulfill SGR needs
- More financial burden will fall on localities, which will need to provide additional resources or cut services





# ○ Public Transportation in Virginia ■○

Statewide Economic Impacts of Public Transportation and Projected Near-Term Capital Needs



#### **Transforming Rail in Virginia**

**Commonwealth Transportation Board, January 14, 2020** 

Michael McLaughlin, Chief of Rail Transportation Department of Rail and Public Transportation



#### 12/19/2019 Virginia-CSX Announcement

On December 19<sup>th</sup> Governor Northam and Secretary Valentine announced a **\$3.7B** landmark deal with CSX that includes purchase of over:

- 350 miles of railroad right of way
- 225 miles of track









# **Major Features**

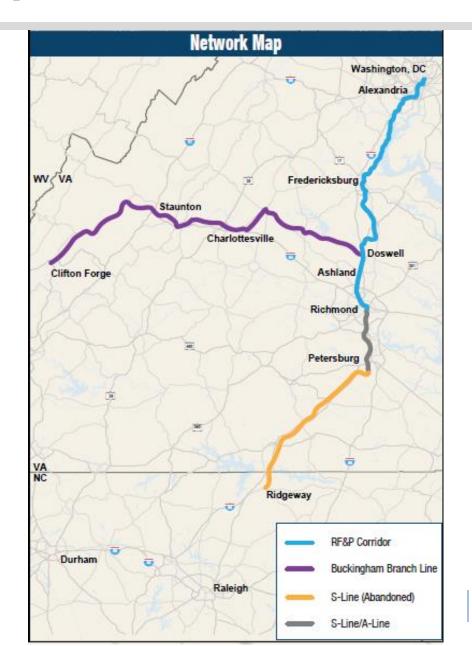
- Acquisition of ROW, track and passenger rights from CSX
- Build-out of infrastructure in two phases
- Completion of phases will result in additional VRE / Amtrak service
- Path forward to full separation of freight and passenger service in future
- Preservation of future rail corridors





# **Acquisition**

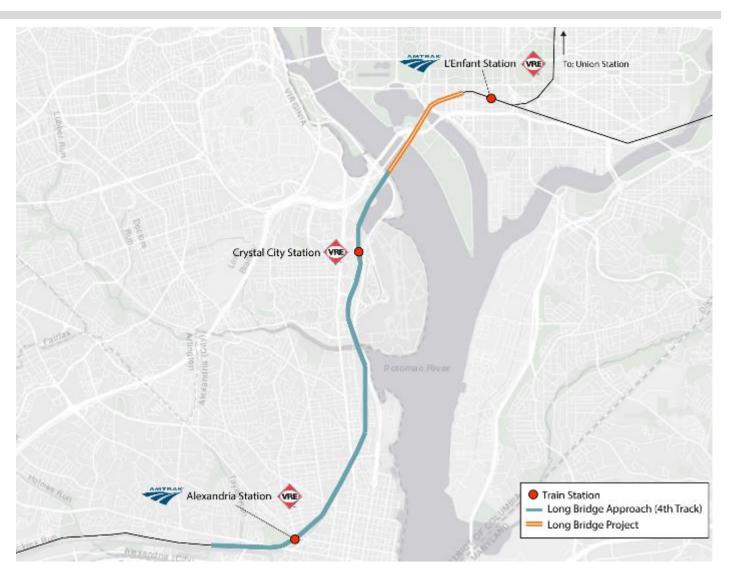
- 100+ miles of right of way and 39 miles of track from DC to Richmond along the "RF&P"
- 30 miles of passenger rights from Richmond to Petersburg
- 170+ miles of track on the Buckingham Branch from Doswell to Clifton Forge
- 75 miles of abandoned track from Petersburg to Ridgeway, NC





# Infrastructure – Long Bridge Corridor

- Construction of Long Bridge and 4<sup>th</sup> track in DC
- 4<sup>th</sup> track in Arlington and Alexandria
- All passenger trains in VA travel through this corridor





#### Infrastructure - Franconia to Lorton

- 3<sup>rd</sup> track from Franconia to Lorton
- Franconia-Springfield Bypass

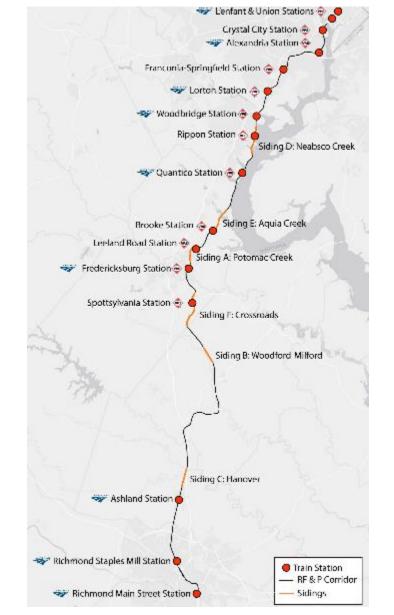




# Infrastructure – Six Sidings

Sidings consist of a third track built adjacent to existing two tracks at the following locations:

- A.Potomac Creek
- B.Woodford Milford
- C. Hanover
- D. Neabsco Creek Woodbridge
- E. Aquia Creek
- F. Crossroads





# Long Bridge

- Approximately 1.5 mile corridor includes a new two-track bridge over the Potomac and fourth track in DC
- Five additional structures over roadways and Washington Channel
- Estimated cost: \$1.9 Billion





#### **Service**

- Provides Virginia with control and guaranteed VRE / Amtrak service
- Double state-supported Amtrak, with nearly hourly service from DC to Richmond
- Additional train to Norfolk with midday arrival/departure
- New round-trip train to Newport News
- Increase VRE service by 75% along the Fredericksburg line + new late night service offering
- Allows future ability to increase trains on the VRE Manassas Line

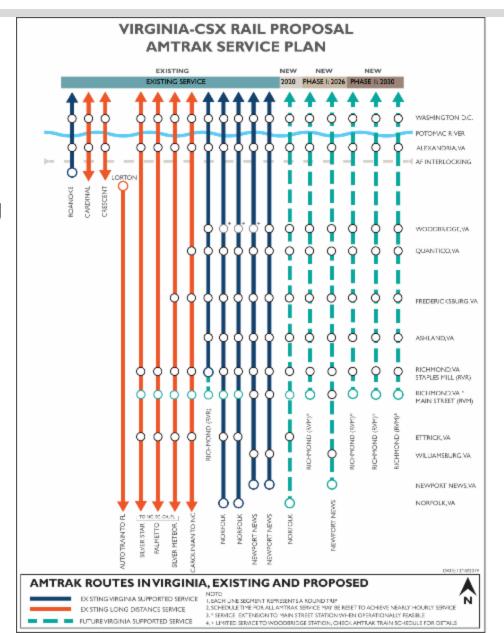






#### **Amtrak Service Plan**

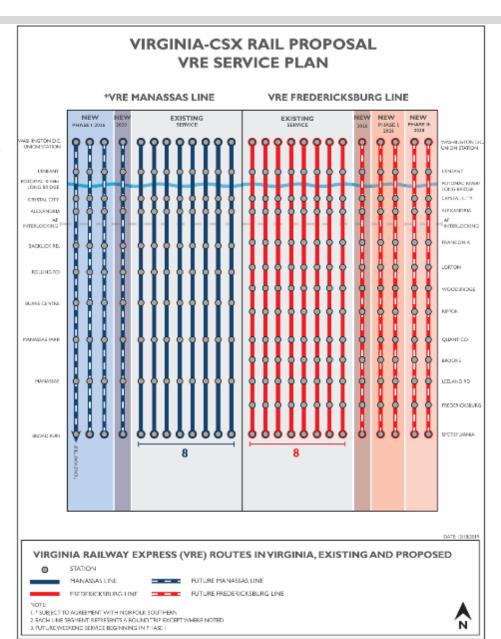
 6 additional roundtrip trains connecting Virginia to the northeast by 2030





#### **VRE Service Plan**

- 5 additional round-trip VRE trains on the Fredericksburg Line by 2030
- Includes late-night & weekend service





#### **Next Steps**

- Finalize definitive agreements with CSX
  - Conduct land survey and title work necessary for agreements
  - Maintenance and operation agreement
  - Transition Agreement
- Develop service agreements with Amtrak and VRE
- Refine financial plan and secure commitments from other state, Federal and local funding partners
- Continue working with CSX and other stakeholders to advance rail projects in the corridor
  - Alexandria / Arlington 4<sup>th</sup> Track Design
  - Long Bridge Preliminary Engineering



#### **Questions?**

Michael McLaughlin

www.drpt.Virginia.gov

www.drpt.virginia.gov/rail/transforming-rail-in-virginia/







# TRANSPORTATION ALTERNATIVES PROGRAM FY21/22 Application Update

Russ Dudley - Local Assistance Division

**January 14, 2020** 

# **Program Overview**

- Available funding includes Transportation Alternatives (TA), Safe Routes to Schools (SRTS), and a Recreational Trail Programs mandatory setaside (provided to Dept of Conservation & Recreation)
- 10 eligibility categories
- Legislation provides that 50% of funds are distributed based on population and 50% can be used anywhere in state
  - Metropolitan Planning Organizations (MPOs) in Transportation
     Management Areas (TMAs) make selections (>200,000 population)
  - District CTB members make selections with \$9M/yr statewide funding
  - CTB At-Large /Secretary make selections with funding based on population areas under 200,000 and any statewide amount over \$9M/yr



# **Eligible Categories**

- 1. On-Road and off-road Bike/Ped facilities
- 2. Infrastructure projects that provide safe routes for non-drivers
- 3. Conversion of abandoned railway corridors into trails
- 4. Construction of turn-outs, overlooks, and viewing areas
- 5. Inventory, control, and removal of outdoor advertising
- 6. Rehabilitation of historic transportation facilities
- 7. Vegetation management practices in transportation rights-of-way
- 8. Archaeological activities related to impacts from implementation of a transportation project
- 9. Environmental mitigation of water pollution related to highway construction
- 10. Environmental mitigation focused on wildlife protection or habitat connectivity



# **FY21/22 Application Summary**

- October 1, 2019 deadline
- Applications submitted through SMART Portal for two-year cycle
- 128 Applications requesting ~ \$86.6M
- Anticipated allocations FY21/22 ~ \$ 41.2M after Rec Trails distribution; Minus \$507,925 for Donor Districts' Balance Entry

Tentative Allocation Distribution (2 Year)	
MPO/TMA Areas	\$~12.5M
District Members	\$ 18M (\$2M per District)
At-Large Members/Secretary	\$~10.2M



# **Application Submittal Package**

- FY21/22 Application Summaries with Scores
- Current CTB TAP Selection Policy
- List of Current Active Projects by District
- Safe Routes to School Information
- Copy of Current De-Allocation/Re-Allocation Process
- Central Office Local Assistance Division Staff Contact List



# **CTB Project Selection Policy**

- Selected projects will receive not less than 50% of the funds requested in the application
- If requested amount is \$200,000 or less, the request will be fully funded if that amount completes a project
- Projects not under construction within four (4) years of the project's first allocations availability are subject to deallocation



# **Project Scoring**

#### **Average Project Score**

- All applications have a Project Score based on:
  - Project funding
  - Project concept
  - Project improves the transportation network
  - Sponsor's ability to administer a federal project
  - Project's readiness to proceed

#### **Priority Ranking**

- Additional info to assess progress of <u>existing</u> projects
  - Focus on projects that will use funds quickly
  - Projects reviewed based on several indicators
  - Ranking from 1 to 6
    - 1 project ready for construction
    - 6 initial stages of project development



#### **District Summaries**

- Provides indication of current status (under construction, agreement pending, etc.) for all active projects
- Indicates each year that an allocation was provided and amount reimbursed to date
- Color Coded for status Legend on last page of each District
- At-Large Members received all nine district summaries



#### **Deallocation/Reallocation Process**

- All active projects reviewed for potential action based on progress
- Revised policy formally adopted by CTB July 2013
- Policy now allows for an ongoing review and action
- Project sponsors are provided "45 day letters" as described in the Process
- With sufficient documentation, short extensions are granted (up to one-year)
- District CTB member contacted for decisions on deallocation or any further time extension beyond one year



# **Transportation Alternatives – Next Steps**

December 2019	Validated/Scored Applications
January 14, 2020	Present TAP Update and Scores to CTB District Members/MPO for use in Selections
January 30, 2020	CTB District Member Selections to LAD / LAD Provides to MPOs
February 20, 2020	MPO Project Selections to LAD
March 17/18, 2020	CTB At-Large Member Selection Meeting
April – May 2020	SYIP Public Meetings
June 17, 2020	CTB Approval of Project Allocations



#### waze

Virginia Commonwealth Transportation Board

# Waze for Cities & States

Your partner in mobility



#### 130M+

Monthly Active Users

# **33B KM**

**76K** 

Active **Map Editor** Volunteers

185

Countries

Completely free



#### What Makes Waze Unique

We bring together users, public sector organizations, private sector companies and community members to solve mobility challenges globally. We believe the best mobility solutions come from technology empowering people to work together.



## Waze's Tools for Public Agencies

We're all in this together, and we're happy to partner with cities to help them meet our shared goals. We have four programs that take some of the best of Waze and give it to cities—and are made stronger by city participation.



Data Sharing

Free, real-time data sharing to inform planning



Carpooling

Reduce CO2 emissions and congestion



Beacons

Improve safety in non-GPS environments



Crisis

Keep citizens safe and informed during incidents

### Waze for Cities: Data Sharing









CA

CARPOOLING BEACC

ACONS

Waze provides public sector partners access to Waze data and allows partners to provide Waze data to be communicated directly with drivers

WAZE'S DATASETS INCLUDE:	PUBLIC SECTOR PARTNERS CAN PROVIDE:
<ul> <li>User-generated reports like traffic jams, crashes, hazards, construction, potholes, roadkill, stopped vehicles, objects on-road, and missing signs</li> </ul>	Street closures information both     (permanent and temporary changes     (for construction or events)
<ul> <li>Waze can also provide email alerts for "unusual traffic events" helping you quickly spot &amp; manage irregularities.</li> </ul>	<ul> <li>"Push" alerts to drivers for major events or incidents</li> </ul>

#### VDOT & Waze









Data Sharing in Action

#### **VDOT Data Shared with Waze**

Road Closures (planned events & work zones)
Incident (construction, crashes)
Major Traffic Events

#### **Waze Data Shared with VDOT**

Incidents

Traffic Jams (Waze auto-calculates traffic jams by comparing current road conditions with historical road data.)

Hazards/construction/potholes/roadkill/missing signs No speed data, personal data, historical data, police activity/location data Data-sharing partner since

### 511VA Website









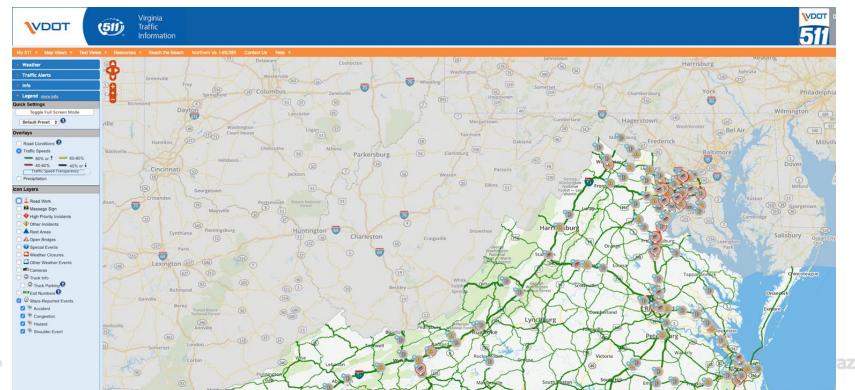
**SHARING** 

**CARPOOLING** 

**BEACONS** 

**CRISIS** 

#### Waze Layer



### **Unplowed Roads**

VDOT suggestion has turned into a Waze global feature

- The feature will offer the Waze community of over 130 million monthly users the opportunity to be better prepared for hazardous winter weather conditions.
- VDOT plans to monitor reports coming in from Wazers, and those who are simply shoveling their driveways and sidewalks, this winter and determine how they can incorporate this data into their operations for the following winter.









DATA HARING

CARPOOLING

BEACONS

CRISIS



### **Unplowed Roads**







CARPOOLING

BEACONS

Feature has garnered extensive local and global press coverage

## The Washington Post

Waze "data is free to about 1,300 government agencies that are part of the Waze for Cities Data program, Simons said. ...the work with VDOT exemplifies "what can be accomplished when we collaborate with public-sector partners to meet community needs." - Washington Post

## Mashable

Thanks to the 130 million monthly active users who crowdsource information and report it, Waze can give you all sorts of information about road hazards. Snow-related alerts now join as many as 25 other reportable hazards, including oil on the road, potholes, roadkill, missing signs, and even tornadoes." - Mashable

"In theory, this doesn't just help you save time and stay safe. It could help cities gauge how well their snowplows clear the roads, and pinpoint parts of town that aren't receiving adequate care." -**Engadget** 

## Waze's Approach to Traffic









Routing, Carpool and Trucks

#### Traffic is getting worse

- VA statewide vehicle registrations jumped 40% from 2010-2019
- More cars = more traffic

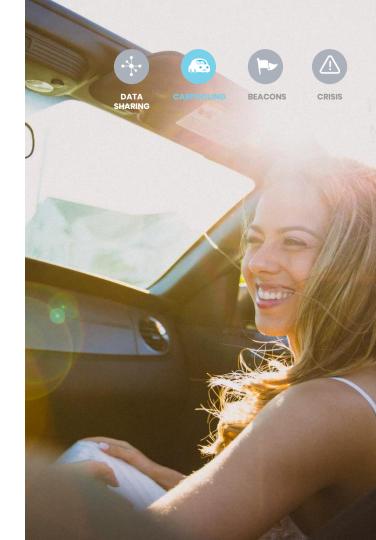
#### Waze works to fight traffic in two ways:

- The Waze navigation app tries to finds open stretches of road and spreads cars across the grid of public streets
- Waze Carpool tries to make it easier for people to fill up empty seats in their car and take unnecessary cars off the road
- Waze strives to reflect current policies and limitations as accurately as possible.
- Waze was created for use with personal vehicles, and expanded to offer navigation tools for motorcycles and taxis. We do not currently support truck routing, public transit or bicycles.

## Waze Carpool

Peer-to-peer carpooling - no private drivers - is becoming reality in cities through our easy-to-use app, promoting:

- Reduced congestion
- Time savings in the HOV/HOT lanes
- Happier & more affordable commutes
- Greater mobility access for residents



## Waze Carpool makes sharing a trip easy, safe and fun







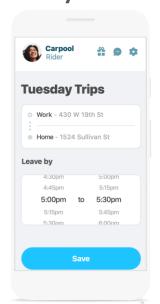


DATA SHARING

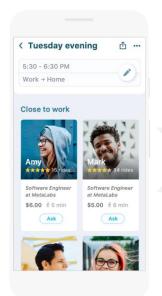
CARPOOLING

BEACONS

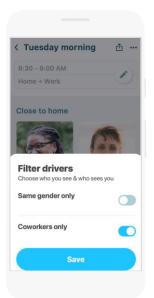
CRISIS



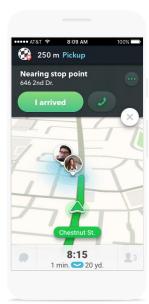
Easy onboarding. Customize your schedule daily or weekly



Algorithm automatically matches drives & riders on or near route



Safety first: get to know carpoolers, filter by same gender or coworkers only



Most efficient route using Waze technology

waze

## Waze Carpool is making inroads



25,000,000

miles shared by Waze Carpoolers in the USA



710,000

monthly global Carpool rides



150,000

trees would need to grow for 10 years to remove the same amount of CO<sub>2</sub>











DATA SHARING CARPOOLING

BEACONS

CRISIS

## Waze Carpool helps agencies track TDM goals

### Looking Ahead









Waze 2020 Priorities of note for the CTB

- Help make our data sharing program easier to use and more useful
  - Improving our online education and community support for our Waze for Cities partners
- Help our public partners make map edits they need, when the need them
  - Deepening ties between our Waze for Cities partners and our local map editors
- Increase the amount of useful information we provide to Wazers
  - Engaging our Waze for Cities partners to keep sharing their closures, major traffic events and hazards with us
- Continue to grow Carpool to help fight traffic
  - Working with our Waze for Cities partner to spread the word about Carpool and align with existing transportation demand management programs

### waze

## Thank you!

Stay in touch!
<a href="mailto:danisimons@waze.com">danisimons@waze.com</a>
203-980-8820
waze.com/wazeforcities



COMMONWEALTH of VIRGINIA

Office of the

SECRETARY of TRANSPORTATION

Proposed Changes to SMART SCALE Policies and Methods - Round 4

January 2019



















Office of the SECRETARY of TRANSPORTATION

# **Summary of Proposed Policy Changes**



- Timeline and schedule
  - 1 month pre-app intake
  - Pre app caps 4+1 and 10+2
- Project eligibility
  - Transit maintenance facility must include capacity/service expansion
  - Prohibit systemwide projects
- Project Readiness
  - Adaptive signal control projects must include corridor study or operational analysis
  - Major Transit Investments BRT/Light Rail
    - require planning study that shows alternatives considered
    - inclusion in agency's Transit Strategic/Development Plan

## Fall Meeting Public Feedback



- Much of the feedback was in response to proposed changes to Land Use (setting L1 to 0% of the score and adjusting the Land Use weight in Area Type A from 20% to 15%)
- Next most common comment was that we should not adjust the Safety categories to a split of S1 at 70% and S2 at 30%
- Several comments regarding the complexity of SMART SCALE and asking us to look for ways to simplify the application and scoring processes
- We will provide full summary of comments to the Board related to proposed changes in February



# Project Evaluation and Scoring

# **Environment**Resource Impact Measure



Problem: treating measure as a benefit

No Changes from December

- Significant potential impact = 0 and No impact = 100
- After lessons of Round 1 potential impact was then scaled by points in all other measures
- Results can be counter intuitive if you do not consider \$
- Example HRBT, which had the second-highest total impact to sensitive resources received the greatest number of points for this measure due to high benefit score

#### Environment - Recommendation for Round 4

- 1) Convert E1 to subtractive measure (subtracting up to 5 points at end of scoring)
- 2) E2 (Air Quality Energy) measure weight changed to 100%

## Congestion



- Feedback concern that current methods do not account for congestion on both weekdays and weekends
- Implement method to better account for peak period congestion throughout entire week (weekdays and weekends)
- Datasource: INRIX dataset
- During December Board meeting we committed to providing more details on this modified approach (next 5 slides)

Congestion- Recommendation for Round 4

1) Implement method to better account for peak period congestion throughout entire week (weekdays and weekends)

# **Congestion**Peak Period Expansion Factor

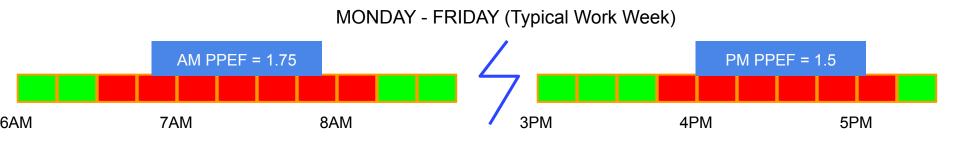


- Common traffic analysis methods are based on peak hour analysis
- Since peak congestion can extend beyond peak hour SMART SCALE policy requires congestion benefits to be calculated for <u>peak</u> <u>period</u>
- Peak Period Expansion Factor (PPEF) is a value used by the SMART SCALE team to convert estimated peak hour delay and throughput benefits to peak period benefits
- PPEF can be thought of as average congestion duration a value of 1.75 would mean facility is congestion 1 hour and 45 minutes

# **Congestion Current Peak Period Expansion Factor**



- INRIX is datasource used by Commonwealth for various purposes:
  - Travel time Variable Message Signs on Interstates
  - VTrans congestion and reliability needs
  - Calculation of PPEF for SMART SCALE
- Travel Time Index (TTI) is used to calculate PPEF
- TTI is the ratio of the congested travel time to the free flow travel time
- Using 15-minute increments the TTI data is averaged <u>Mon-Fri from 6AM to</u>
   9PM



# **Congestion**Proposed Peak Period Expansion Factor



- Proposed method nearly identical to previous method
- Main difference Base calculation on Mon-Sun (include Sat and Sun) from 6AM to 9PM is calculated
- PPEF for facilities that experience weekend congestion would likely increase
- Anticipate this change will result in following:
  - Congested during work week and weekend PPEF increase/decrease
  - Congested only on weekend PPEF increase
  - Congested during work week but no congestion on weekend PPEF decrease

## **Safety**



- SMART SCALE team has been working on the following areas related to safety
  - Targeted Crash Modification Factors (CMFs)
  - Weighting of S1 (crash frequency) versus S2 (crash rate) currently 50/50
    - Recommend changing weight to 70/30
    - Supports Board targets to reduce fatal and severe injury crashes and policy changes related to HSIP program

#### Safety - Recommendations for Round 4

- 1) For certain project types a targeted CMF will be used
- 2) 70/30 split in weighting more weight to reduction in crash frequency
- 3) Area Type A Increase safety weight from 5% to 10%

Change since 12/10/19

# **Economic Development Sites**



- Floor Area Ratio (FAR) assumptions for zoned-only properties can be problematic
- Large industrial tracks (250+ acres) with assumed FARs of 1
  - 250 acre would equate to 10,890,000 sq ft building
  - Boeing Everett Factory 4.28M sqft
- Several tracts with assumed FARs of 5.0 or higher
- Applicants provided documentation of local ordinances allowing FAR value used - just because it is allowed does not mean it is likely

#### Economic Development - Recommendation for Round 4

- FAR for zoned only properties capped at 0.3 unless applicant can prove average FAR around project is higher or minimum FAR in local zoning ordinance is higher than 0.3
- Incorporate VEDP Business Ready Sites into site weighting process

## **Economic Development Sites: VEDP Business Ready Sites**



#### Current weighting process

- Development square footage scaled by <u>up to 5 points</u>:
  - 0.5 points if proposed project is specifically referenced in comprehensive or development plan, and
  - Up to 0.5 points based on level of economic distress
     PLUS
  - .5 points for Conceptual Site Plan Submitted, or
  - 1 point for Conceptual Site Plan Approved, or
  - 2 points for Detailed Site Plan Submitted, or
  - 4 points for Detailed Site Plan Approved

# **Economic Development Sites: VEDP Business Ready Sites**



### Proposed weighting process (changes in orange)

- Development square footage scaled by <u>up to 5 points</u>:
  - 0.5 point if proposed project is specifically referenced in comprehensive or development plan, and
  - Up to 0.5 point based on level of economic distress
     PLUS
  - .5 points for Conceptual Site Plan Submitted, or
  - 0.5 point for Conceptual Site Plan Approved, or
  - 1 points for Detailed Site Plan Submitted, or
  - 2 points for Detailed Site Plan Approved PLUS
  - 1 point for redevelopment of existing site (existing building vacant or abandoned)

#### **PLUS**

0.25 points for VEDP Tier 3 sites

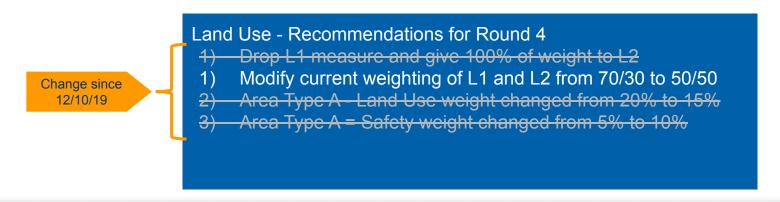
Change since 12/10/19

- o 0.5 points for VEDP Tier 4 site, or
- 1 point for VEDP Tier 5 site

## **Land Use**



- L1 multiplies non-work accessibility by future density; existing dense areas do well in this measure but emerging areas may not due to lack of current non-work destinations
- L2 multiplies non-work accessibility by the *change* in population and employment; areas that do well in L1 also tend to perform well in L2
- Current weighting has L1 at 70% and L2 at 30% recommend even weight for both measures (50/50)



### **Other Minor Changes**



- Area Types
  - Fredericksburg Area Metropolitan Planning Organization (FAMPO) has formally passed resolution to request change in Area Type from A to B
  - New River Valley Regional Commission (NRVRC) has expressed desire to change Area Type from C to D - formal resolution has not been received to-date
- Policy resolution in February will clean up and clarify existing policy - example: formalize policy for project cancellation



COMMONWEALTH of VIRGINIA

Office of the

SECRETARY of TRANSPORTATION

Thank you



















# COMMONWEALTH of VIRGINIA Office of the SECRETARY of TRANSPORTATION

## 2019 VTrans Vision, Goals, Objectives, Guiding Principles 2019 Mid-term Needs Identification Methodology

Commonwealth Transportation Board

Nick Donohue, Director, Office of Intermodal Planning and Investment
Jitender Ramchandani, AICP, PMP

January 15, 2020













### **PRIMARY PURPOSE**

- Request for Board Action
  - VTrans Vision, Goals, Objectives, and Guiding Principles
  - 2019 VTrans Mid-term Needs Identification Methodology



## VTRANS MID-TERM NEEDS - TIMELINE

June, 2019	Gather CTB's Feedback
	Presented method for the identification of Mid-term Needs
July	Analyze Performance
	Developed initial results
August	Gather Feedback from Transportation Partners
	Conducted 13 Regional Workshops to seek feedback on the initial results
September	Incorporate Feedback in the Methodology
	Revised methods, introduced new need categories to incorporate feedback
October, November	Validate
	Draft documents made available at the Fall Transportation Meetings
December	Incorporate Feedback in the Methodology
	Made additional revisions to incorporate feedback
January	Request Action



## REQUESTED BOARD ACTIONS

- 1. Approval of VTrans Vision, Goals, Objectives, and Guiding Principles
- 2. Approval of Methodology used to develop the 2019 VTrans Mid-term Needs
- 3. Inclusion of Route 288 as a component of North Carolina to Washington Corridor of Statewide Significance
- 4. Acceptance of the 2019 VTrans Mid-term Needs



## REQUESTED BOARD ACTIONS (CONT.)

- Resolution also directs staff to:
  - 1. **Develop a VTrans Action Plan** that prioritizes the identified 2019 Mid-term Needs and includes recommendations for such prioritized needs
  - 2. Modify the 2019 Mid-term Needs to reflect changes in the transportation system that have taken place since the data used in the 2019 Mid-term Needs were developed
  - 3. Review and provide recommendations to the modify the Board action, entitled Action to Approve the VTrans Multimodal Transportation Plan Needs Recommendations Methodology and Recommendations by the Commonwealth Transportation Board, taken on January 10, 2018
  - 4. Develop scenarios to assess the impacts of divergent futures trends and conduct an assessment of vulnerability of the transportation network, local communities, and regions from flooding and sea-level rise











### COMMONWEALTH of VIRGINIA

#### Commonwealth Transportation Board

Shannon Valentine Chairperson 1401 East Broad Street Richmond, Virginia 23219 (804) 786-2701 Fax: (804) 786-2940

## COMMONWEALTH TRANSPORTATION BOARD WORKSHOP AGENDA

VDOT Central Auditorium 1221 East Broad Street Richmond, Virginia 23219

January 14, 2020 10:00 a.m.

11. Governor's Omnibus Transportation Bill Nick Donohue, Deputy Secretary of Transportation

This presentation is currently unavailable.

###



#### Commonwealth Transportation Board

Shannon Valentine Chairperson 1401 East Broad Street Richmond, Virginia 23219 (804) 786-2701 Fax: (804) 786-2940

## COMMONWEALTH TRANSPORTATION BOARD WORKSHOP AGENDA

VDOT Central Auditorium 1221 East Broad Street Richmond, Virginia 23219

January 14, 2020 10:00 a.m.

12. Director's Items

Jennifer Mitchell, Virginia Department of Rail & Public Transportation

This item does not have a presentation associated with it. ##



### COMMONWEALTH of VIRGINIA

### Commonwealth Transportation Board

Shannon Valentine Chairperson 1401 East Broad Street Richmond, Virginia 23219 (804) 786-2701 Fax: (804) 786-2940

## COMMONWEALTH TRANSPORTATION BOARD WORKSHOP AGENDA

VDOT Central Auditorium 1221 East Broad Street Richmond, Virginia 23219

January 14, 2020 10:00 a.m.

13. Commissioner's Items
Stephen Brich, Virginia Department of Transportation

 $This\ item\ does\ not\ have\ a\ presentation\ associated\ with\ it.$ 

###



### COMMONWEALTH of VIRGINIA

#### Commonwealth Transportation Board

Shannon Valentine Chairperson

1401 East Broad Street Richmond, Virginia 23219 (804) 786-2701 Fax: (804) 786-2940

## COMMONWEALTH TRANSPORTATION BOARD WORKSHOP AGENDA

VDOT Central Auditorium 1221 East Broad Street Richmond, Virginia 23219

> January 14, 2020 10:00 a.m.

14. Secretary's Items
Shannon Valentine, Secretary of Transportation

This item does not have a presentation associated with it.

###