



## **TRANSPORTATION AND MOBILITY PLANNING**

Feeding the Program

Marsha Fiol Transportation and Mobility Planning Division Director

February 19, 2020

## **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.

#### **Transportation and Mobility Planning Division Mission:**

Use performance-based planning to identify problems, work cooperatively with stakeholders, and develop prioritized, targeted solutions that can be readily implemented



## **Division Structure**

Planning reports to the Chief Engineer and plays critical role in project development

#### Division Director Marsha Fiol

Assistant Director– Ben Mannell, AICP	Assistant Director– Terrell Hughes, PE	Planning and Investment Resources– <i>Tammy Poore</i>			
Highway Programs	Conceptual Planning	Work Programs (VDOT/MPO/PDC)			
Planning Data Solutions	Multimodal Planning	Administrative & Training Budgets			
Travel Demand Modeling	SMART SCALE Support				

#### Central Office- 34 Staff

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

#### 9 District Offices- approx. 34 Staff

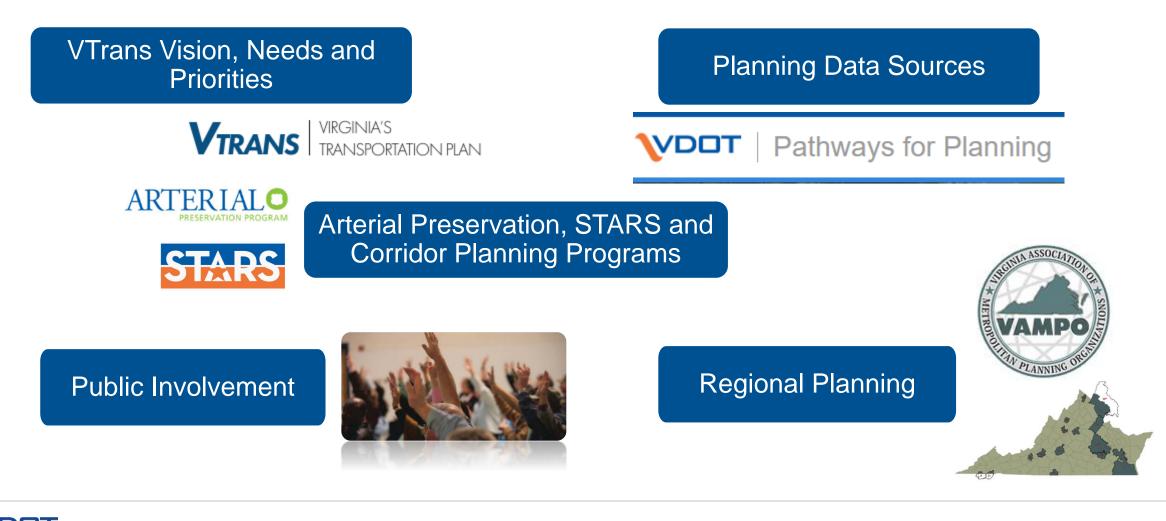
- SMART SCALE leads
- Planning study leads
- Oversight of regional planning efforts at MPOs and PDCs





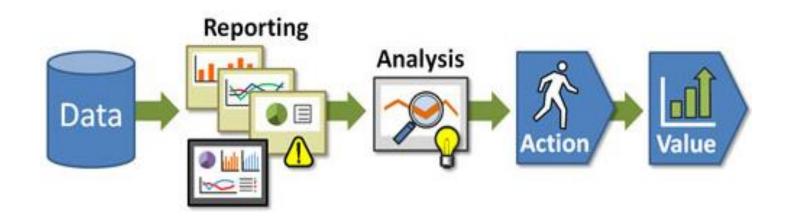
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## What is Planning's Role in Project Development?



## **Project Development and Funding Today**

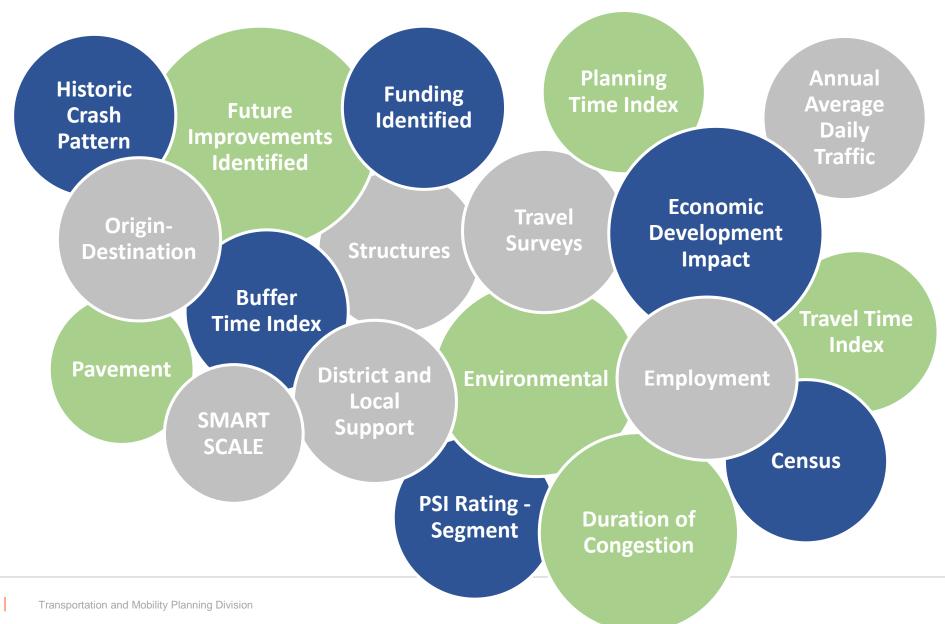
- Performance-based
- Addressing underlying issues and looking for greatest return on investment
- Accelerated project development- projects fully funded
- Engagement with decision-makers and public early on





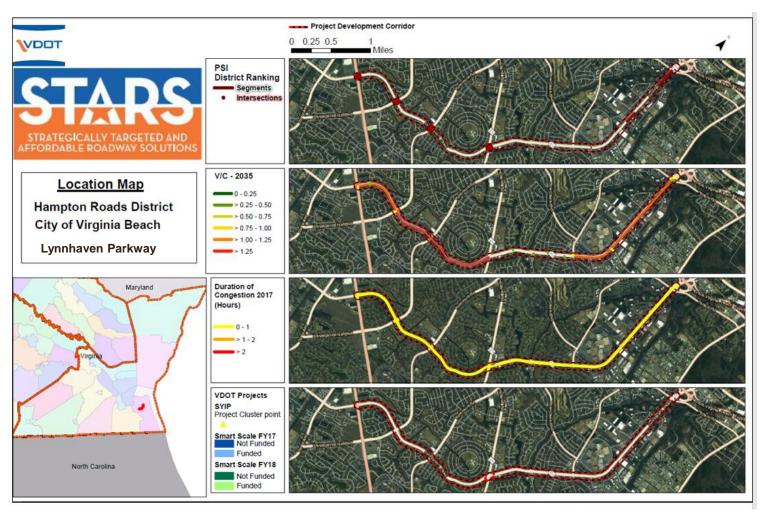
#### **Data Resources:**

VDOT



## **Data Resources: Supporting Project Development**

- SMART SCALE = Data Driven Process
  - Mapping of key performance metrics
  - Correlating SMART SCALE applications to issues is the first step to successful applications
- Using data for other funding programs
  - Not a requirement, but can help
  - Makes applications more defensible



## **Planning Data Sources- Pathways 4 Planning**

https://VDOTP4P.com/

#### Email: P4P@vdot.virginia.gov

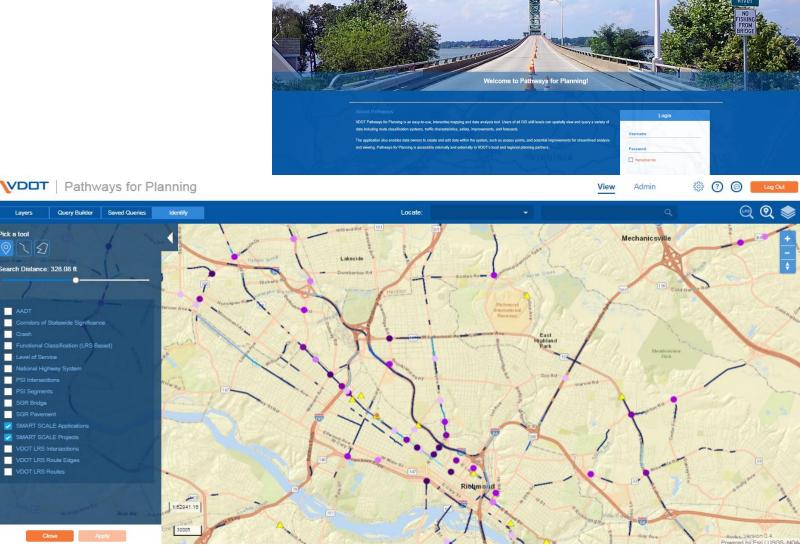
## **Using "Big Data"**

- Sharing
- Querying
- Absorbing

## **Objective:**

- **Targeted** solutions
- Funded projects

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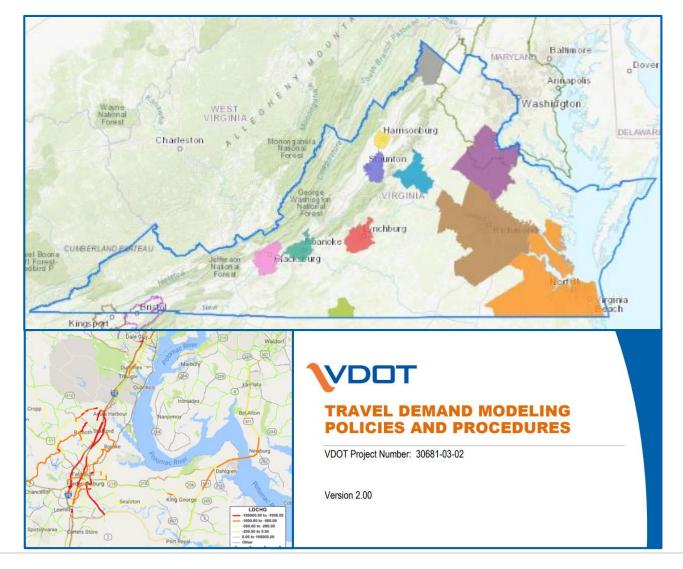
Pick a tool

## **Data Resources: Forecasting**

- Travel demand modeling programused to support planning process
- Traffic forecasts
- Alternative transportation scenarios
- Policies

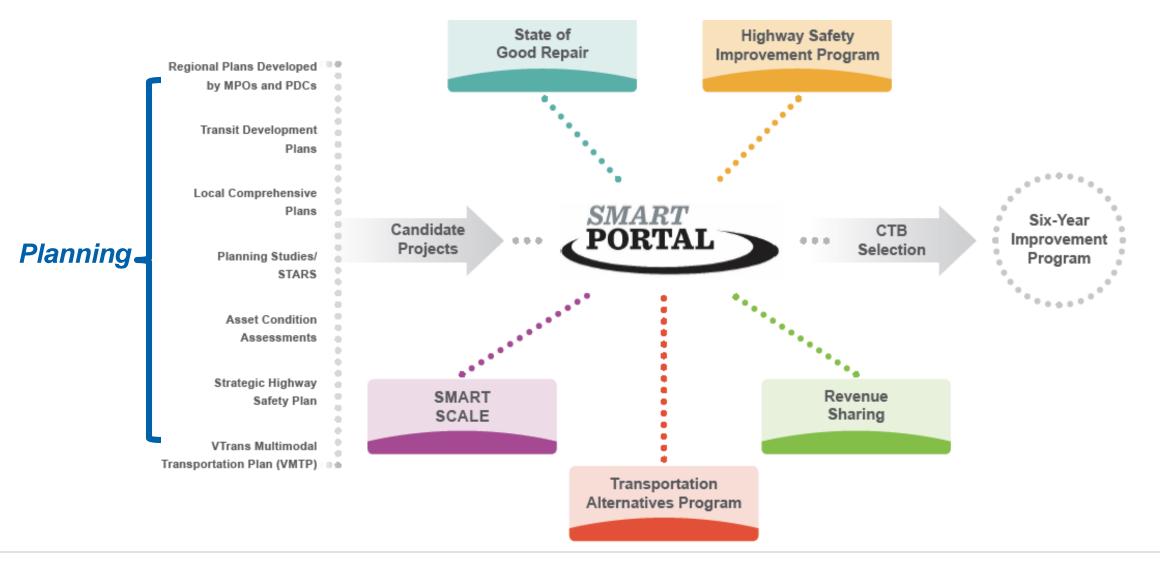
#### Can help answer questions such as:

- When will a trip be made?
- Where are people and goods traveling?
- How are people and goods traveling?
- Which route will they take to complete the trip?





## **Developing Candidate Projects**





## **Public Involvement**

#### VDOT Planning Policy:

Requires all planning studies to include a public involvement component

Encourages use of virtual public involvement, alternatives to traditional engagement

Critical with SMART SCALE where concepts and estimates quickly become projects and budgets





## facebook





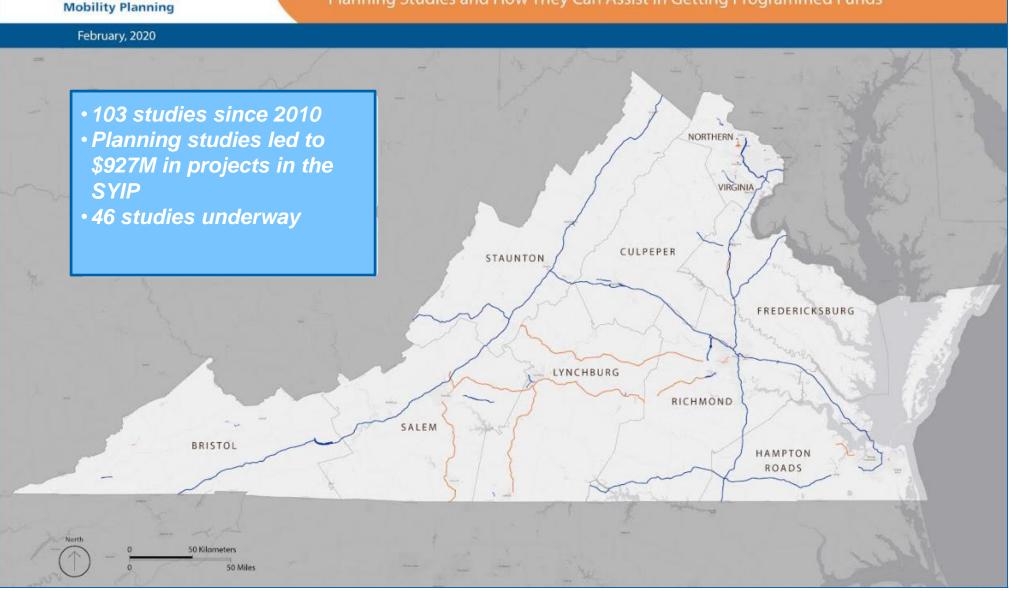
Help Privacy About MetroQuest

#### Virginia Department of Transportation VDO Transportation and

#### **VDOT Resources**

Planning Studies and How They Can Assist in Getting Programmed Funds

Planning studies offer a high return on investment

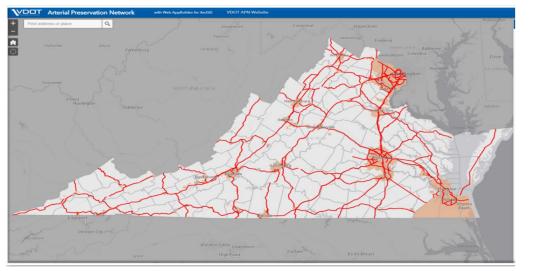


## **Arterial Preservation Program**



# Designed to preserve and enhance the safety and capacity of arterial highways - plan now to reduce future costs

Arterial Preservation Network



**Program Goals** 

Increased safety for all users

Local economic development goals are integrated

Mainline through traffic is served with priority



## **Special Studies**

- Tasked with major studies such as I-81 and I-95 Corridor Improvement Plans
- I-64 Corridor Improvement Plan is currently underway

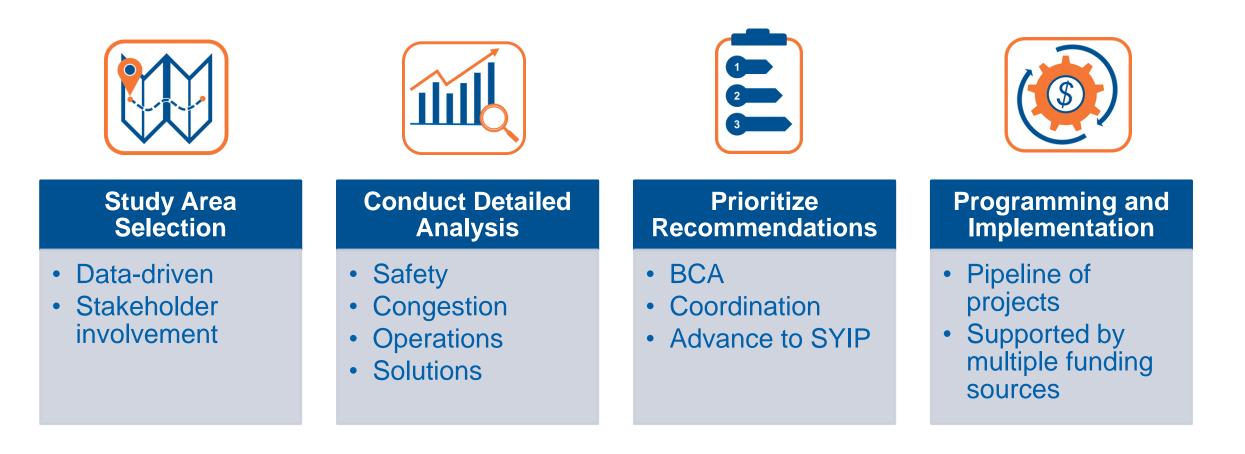
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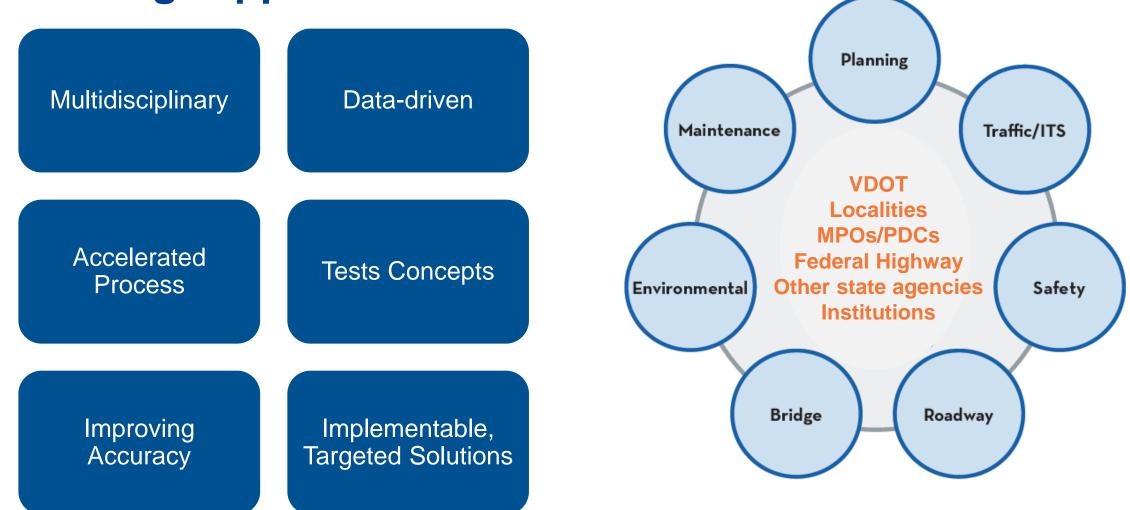


#### **STARS Program** (Strategically Targeted Affordable Roadway Solutions)





## **Planning: Approach**





# Why are Arterial Preservation and STARS Important to Project Delivery?

1	VDDT Virginia Depar of Transportat	tment ion	Six-Year Improvement Program						
All	Projects Major Projects	MPO Fund	Reports	Home	User's Guide	About			
Α	II Projects								
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78245	VIRGINIA CAPITAL TRAIL - WESTERN SECTION	0005 Ri	A D'		TOT	AT C			
97840	LANDSCAPE INTERSTATE I-95 GATEWAYS INTO THE CITY OF RICHMOND	EN10 Ri	AK		ER L	AL U			
105055	I-95/I-64 OVERLAP ISSUES	0095 Ri		_					
93087	RTE 195 - BRIDGE REPLACEMENT OVER RTE 76, CSX, RAMP S	0195 Ri		PRE	SERVATIO	N PROGRAM			
92609	POCAHONTAS PARKWAY - T895 - VDOT OVERSIGHT	0895 Ri							
104891	VIRGINIA PORT AUTHORITY - CRANE PROCUREMENT	0000 Richmo	nd Miscellaneous	\$4,200	\$1,130 \$484	\$2,570 \$16			
104892	GREEN OPERATOR (GO) RICHMOND DRAYAGE TRUCK REPLACEMENT PROG	0000 Richmo	nd Miscellaneous						
T10724	PORT OPPORTUNITY ZONE IMPROVEMENTS	9999 Richmo	nd Miscellaneous						
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T1811	CITY OF RICHMOND: EMPLOYEE TRIPREDUCTION PROGRAM	TRIP Richmo	nd Public Transportation	CTDAT					
		First Previo	us [Page 1	SIRAI	EGICALLY IA	RGETED AND			
	right 2008 Virginia Department of Trans			AFFORD	ADLE ROADY	VAT SOLUTION			

They create a project development pipeline that readily feeds the SYIP

Data driven

Accuracy of cost estimates and schedules

Solutions that can be funded in the SYIP

## **SMART SCALE Support**

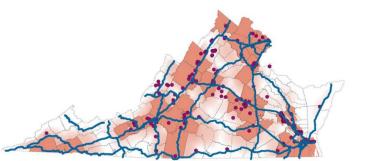


**Planning Division:** 

- Assists in screening applications
- Leads congestion and accessibility measure scoring, assists in environmental measure

#### **District Planners:**

- Serve as SMART SCALE POCs
- Review all applications and project changes after funding

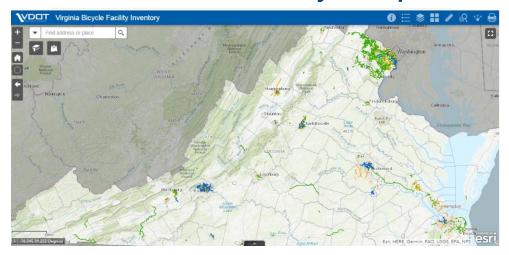


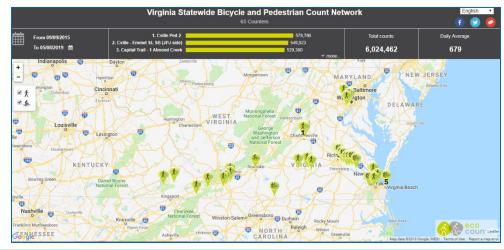
in Typology Category A	Congestion Mitigation		Safety		Accessibility		Environment		Economic Development		Land Use		
	Person Throughput	Person Hours of Delay	Number of Fatal and Injury Crashes	Rate of Fatal and Injury Crashes	ccess to Jobs	Access to Jobs for Disadvantaged Populations	Access to Multimodal Choices	Air Quality and Energy Envrionmental Effect	Impact to Natural and Cultural Resources	Project Support for Economic Development	Intermodal Access and Efficiency	ravel Time Reliability	ransportation Efficient Land Use



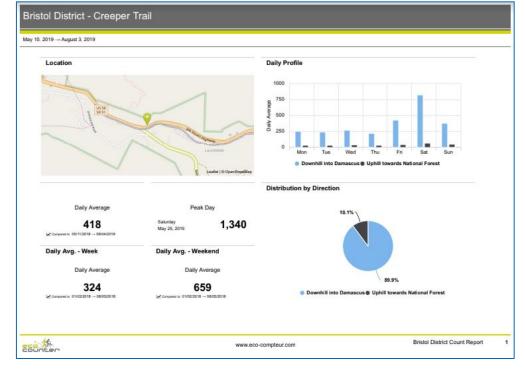
## **Statewide Bicycle and Pedestrian Program**

#### **Interactive Facility Map**





#### **Bike/Ped Count Program**

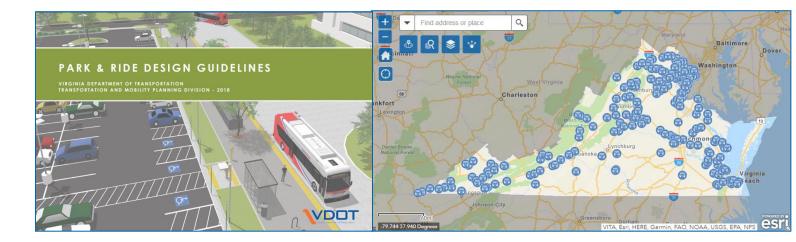




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## **Transportation Demand Management**

- Focus Areas
  - Park & Ride Lots
  - HOV Lanes
  - Slugging
  - Innovation / Technology
  - DRPT Coordination



#### Safe Routes to School Program

- Focus Areas
  - Non-Infrastructure grants
  - Mini-grants
  - Crossing Guard Appreciation Day
  - Transportation Alternatives Grant coordination





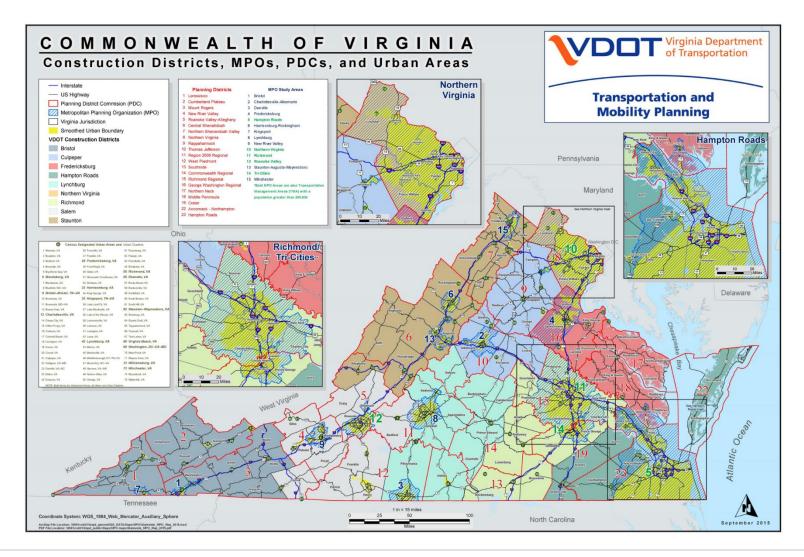
#### A project makes it into the SYIP- now what?

Planning Boundaries/ Functional Classification/ National Highway System MPO Constrained Long Range Plans and Transportation Improvement Programs



## **Metropolitan Planning Organizations (MPOs)**

- 15 MPOs within Virginia
- District Planners serve as lead and provide program oversight



## **MPO Planning and Programming Documentation**

#### CLRP

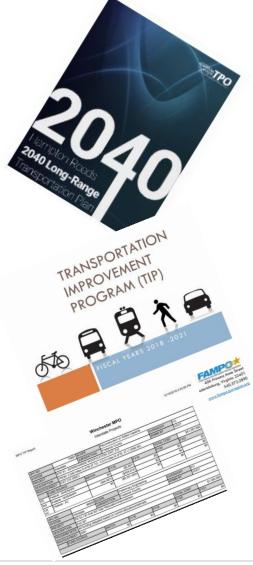
#### TIP

A minimum 20-year plan that includes long range and short-range multimodal transportation strategies/actions A minimum 4-year plan reflecting investment priorities identified in the CLRP

#### How are the CLRP and the TIP related?

All regionally significant construction and maintenance projects, regardless of funding, must be in both the CLRP and TIP if they are within an MPO

A project cannot move forward unless it is included in the MPO adopted CLRP, TIP, and federally approved STIP





#### **Arterial Preservation Program:**

http://www.virginiadot.org/projects/arterial\_management\_plans.asp

#### **STARS Program:**

http://www.virginiadot.org/projects/stars.asp

#### Park and Ride Program:

https://www.virginiadot.org/travel/parkride/faqs.asp

#### **Bicycle and Pedestrian Program:**

http://www.virginiadot.org/programs/bikeped/default.asp

#### Safe Routes to School Program:

http://www.virginiadot.org/programs/ted\_Rt2\_school\_pro.asp





#### **QUESTIONS?**