



VA SAFETY PLANNING UPDATE

MWCOG Transportation Safety Subcommittee Meeting

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April 17, 2018

MPO Safety Performance Measure 2018 Targets

Data Received

2018_MasterSheet.xlsx - Microsoft Excel

Name	Letter	Support	Fatal and Serious Injury Targets	Non-Motorized Targets
Bristol Metropolitan Planning Organization	Paper Copy Scan	VDOT	Click to review targets	Click to review targets
Central Virginia Metropolitan Planning Organization	Electronic	VDOT	Click to review targets	Click to review targets
Charlottesville-Albemarle Metropolitan Planning Organization	Electronic	VDOT	Click to review targets	Click to review targets
Danville Metropolitan Planning Organization	Electronic	VDOT	Click to review targets	Click to review targets
Fredericksburg Area Metropolitan Planning Organization	Electronic	VDOT	Click to review targets	Click to review targets
Hampton Roads Transportation Planning Organization	Electronic	MPO	Click to review targets	Click to review targets

Microsoft Excel Ribbon: File, Home, Insert, Page Layout, Formulas, Data, Review, View, Add-Ins

Clipboard: Paste, Copy, Format Painter

Font: Calibri, 11, Bold, Italic, Underline, Text Color, Background Color

Alignment: Merge & Center



A55 Fatality

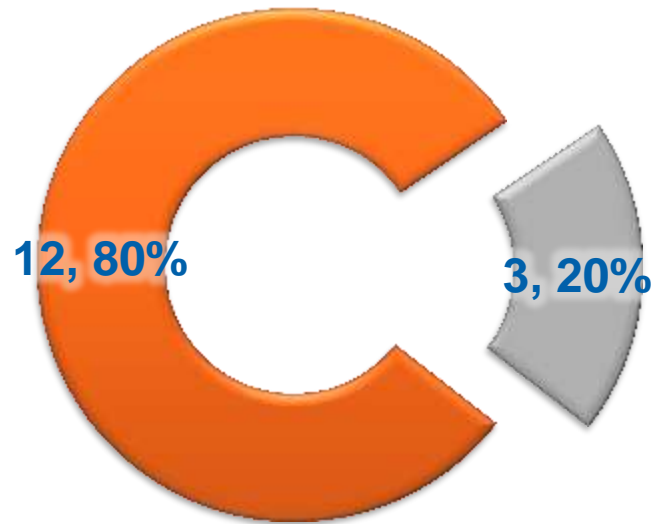
	2016	2017	2018	2019	2020	2021	Yearly Change
Projected Historical Trendline Summary (Based on Fatalities)							
Fatalities	4	3	3	3	3	--	-0.28
Fatality Rate	0.63	0.57	0.52	0.46	0.41	--	-0.05
Serious Injuries	--	62	52	42	32	22	-10.06
Serious Injury Rate	--	10.02	8.14	6.26	4.33	2.51	-1.88

4. Set Future Target Reductions

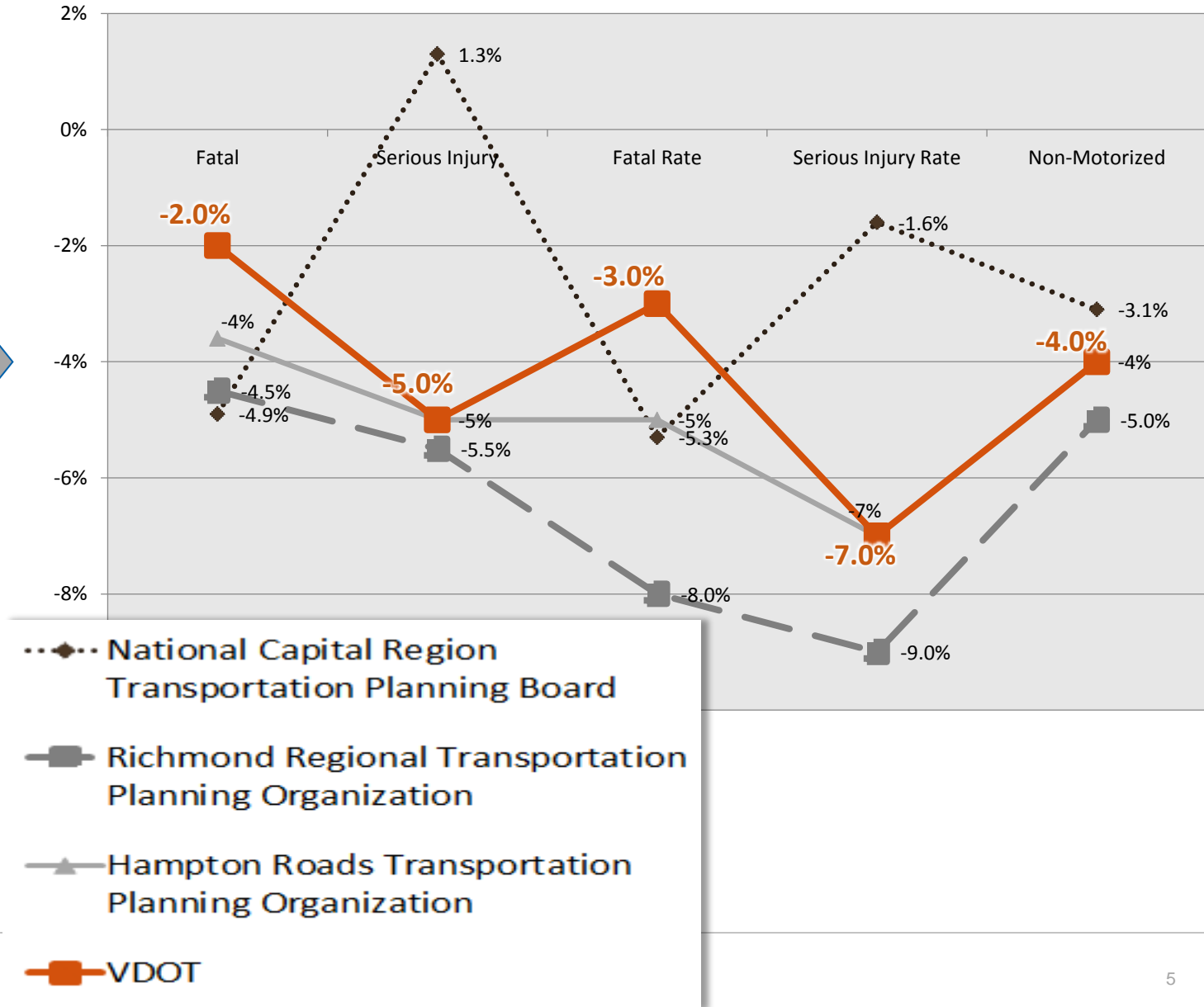
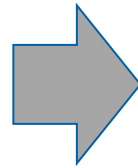
Fatality Reduction	2.0%
Serious Injury Reduction	5.0%
VMT % Increase	2.0%

5. Review "Graphs_Fatality"

MPO Target Selection



■ VDOT Targets
 ■ MPO Targets



2017-21 Strategic Highway Safety Plan Implementation

Virginia's 2017-21 SHSP is being implemented:

- **Highway Safety is a priority for our new Administration and Commissioner**
- **Emphasis Area teams created and expanded**
- **Actions are being defined and tracked with projects and activities**

Safety Messaging Concentration:

- **April weekly emphasis area campaigns**
 - Vulnerable users
 - Work Zones
 - Distracted Drivers
 - Belts, Booze and Brakes



YOUR CAR IS NOT
A PHONE BOOTH,
JUST DRIVE.

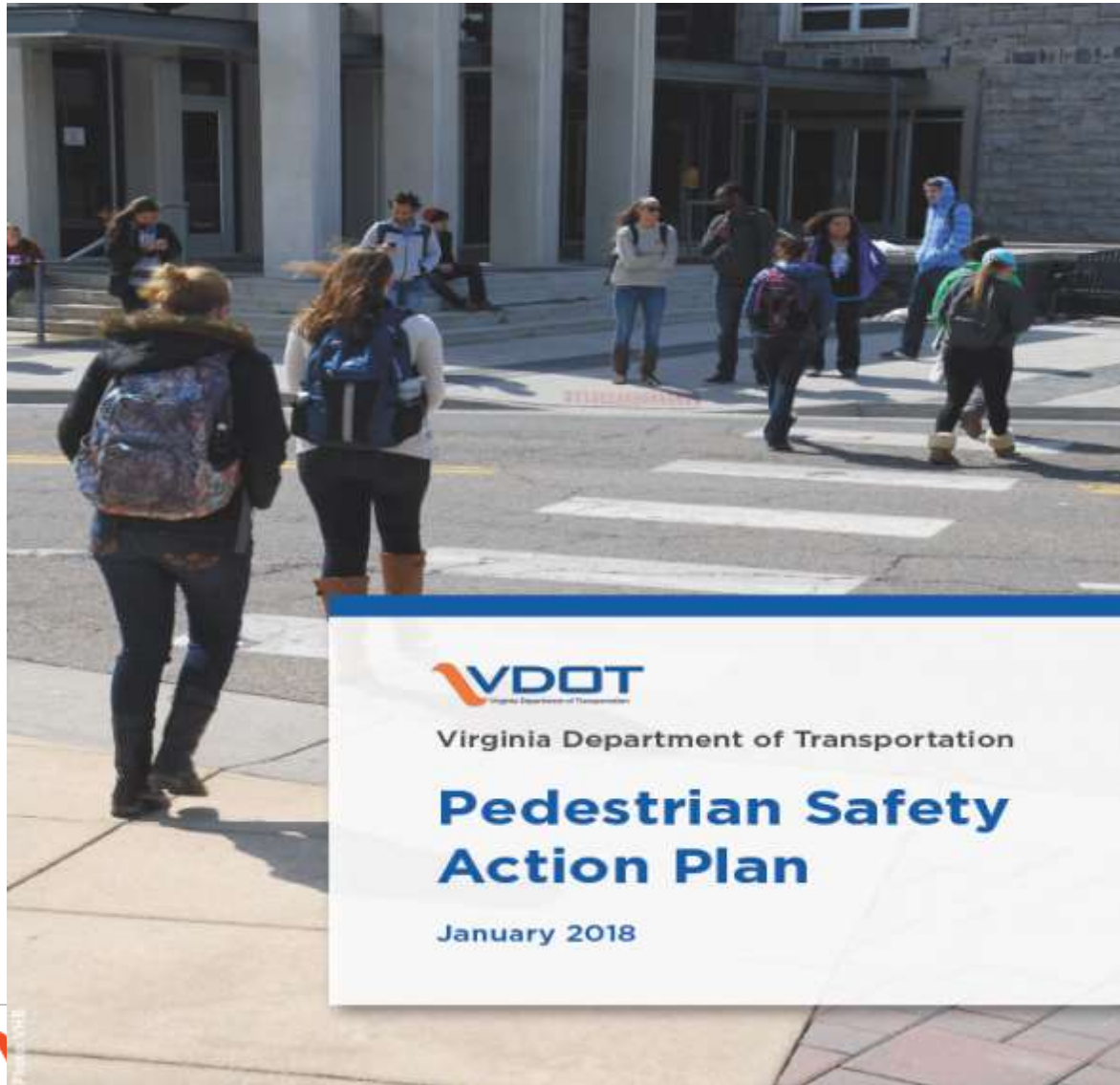


- New **Towards Zero Deaths** website is under construction

Bike and Ped

- **Bicyclist and pedestrian crash detailed crash assessments (2012-16)**
- **Pedestrian Safety Action Plan**

Pedestrian Safety Action Plan (PSAP)



Goals

- Understand safety issues
 - Infrastructure
 - Land use
 - Behavior
- Identify Potential Projects
- Recommend policy, procedure, and practice changes to better promote safe pedestrian travel

Crash and Data Analysis

Crash Clusters (HISTORICAL)

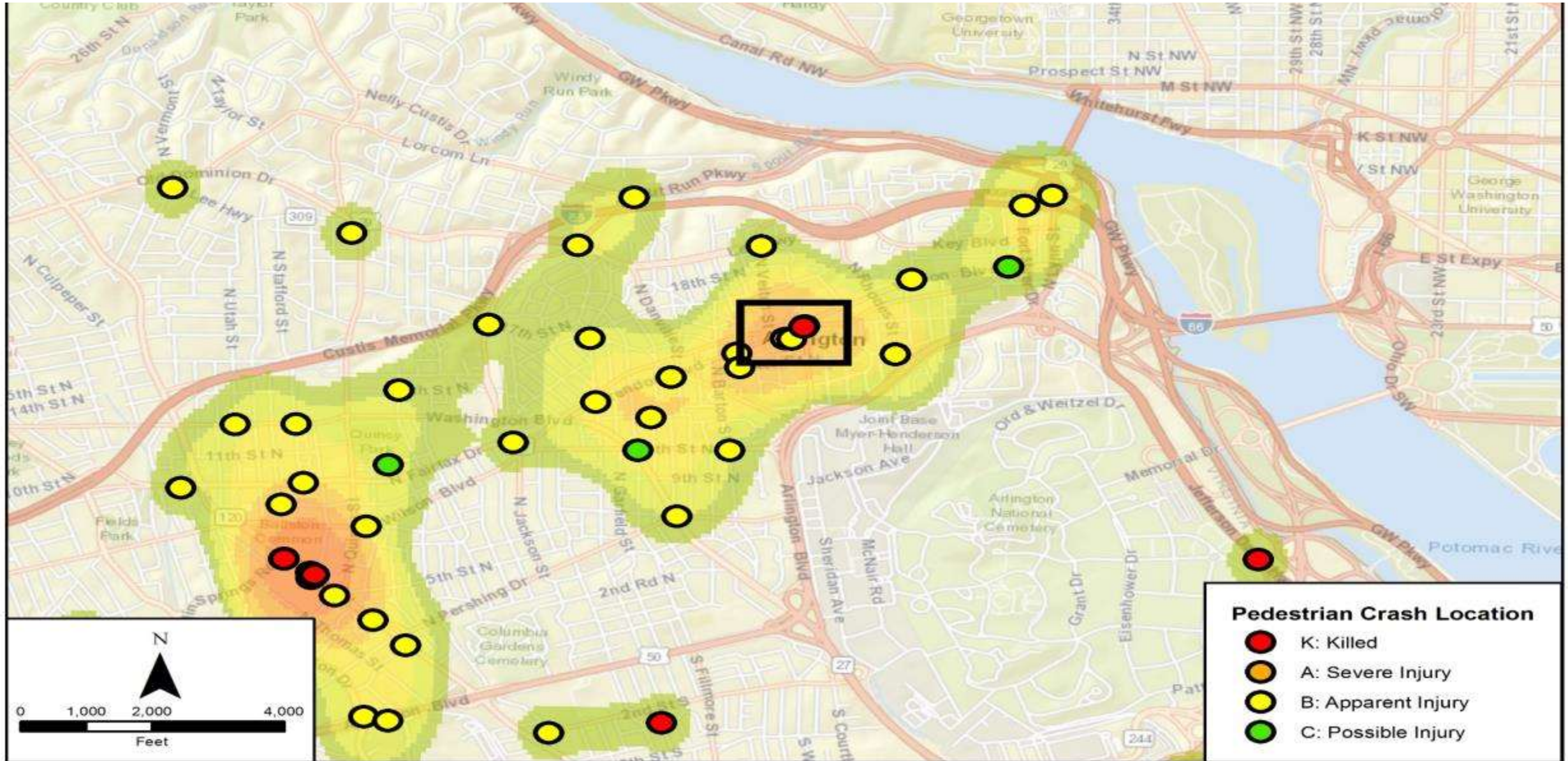
- smaller scale
- focus on crash types

Priority Pedestrian Corridors (PREDICTIVE)

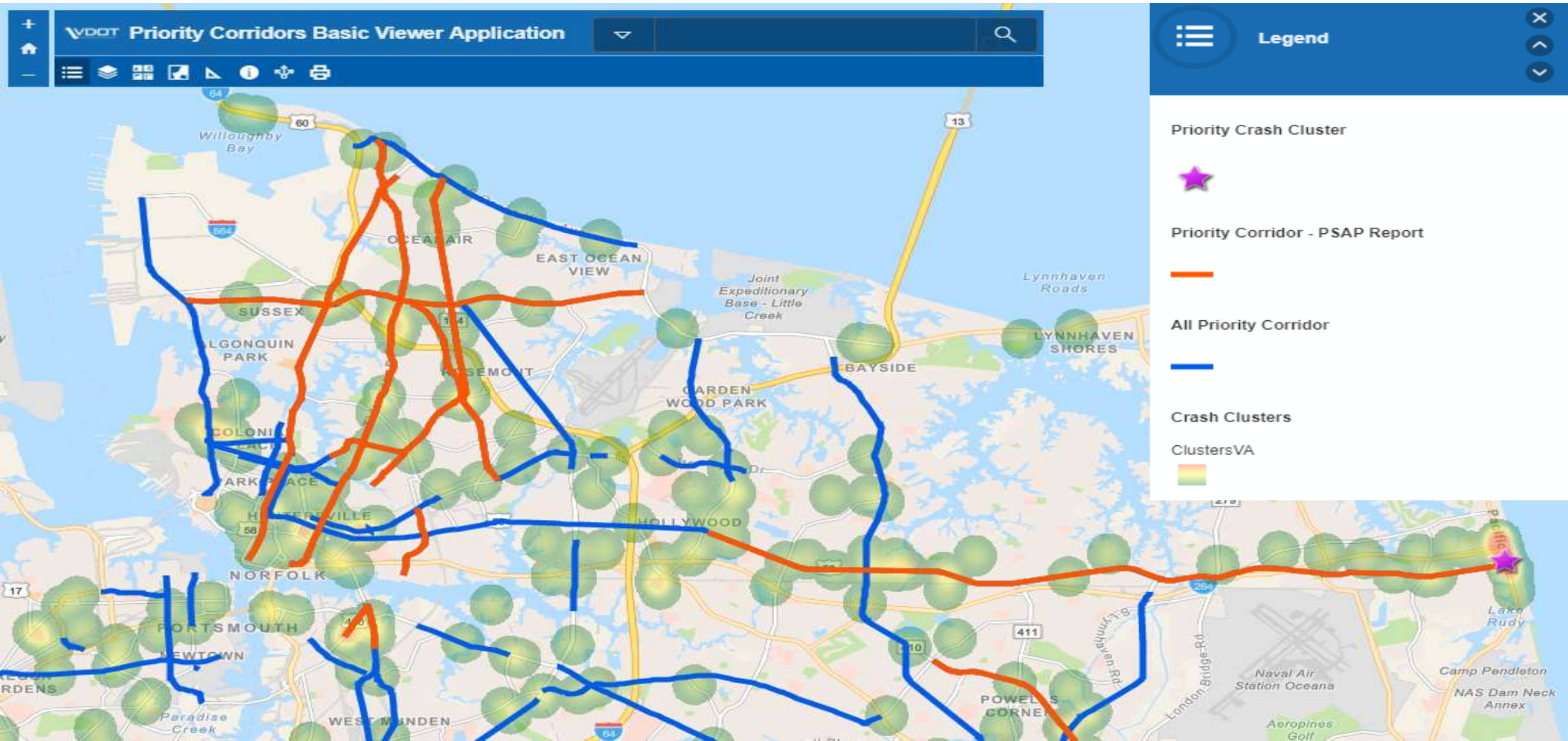
- larger scale
- selected per criteria evaluating risk/potential for crashes



Example Crash Clusters: Arlington



ArcGIS Online Maps



ArcGIS Online Maps



Lafayette Boulevard (BUS 1 US 1) – Sheet 1 of 1



Community: Spotsylvania County
VDOT District: 6 (Fredericksburg)

Corridor Description

- Segment 1:** 2-lane turning lane median divided roadway with low density residential and commercial development. **AADT:** ~23,000; **Speed Limit:** 40

Recommended Countermeasures

- Segment 1:** Pedestrian signal heads and countdown signals at signalized intersections, high visibility crosswalk materials and patterns at unsignalized intersections, and PHBs key at midblock crossings.

Notes

- Segment 1:** Limited pedestrian infrastructure (i.e. sidewalks) along corridor, minimal markings for crosswalks at currently marked locations, and few signalized intersections with pedestrian signal heads.

Intersections

- **Signalized**
 - **Flashing Yellow Arrow, High Visabilty Back Plates**
 - **Procuring new controllers followed by signal system**
- **Unsignalized**
 - **Signal justification study now required (VJUST software)**
 - **Network Screening for priority intersections (expected Spring 2018)**

Roadway Departure

- **Rumble Strips**
 - Deploying with shoulder widening as needed
 - Piloting new sinusoidal design for noise sensitive areas
- **Pavement Friction**
 - Updating High Friction Surface Treatment specifications
 - Beginning continuous friction monitoring test project

Traffic Incident Management and Emergency Response

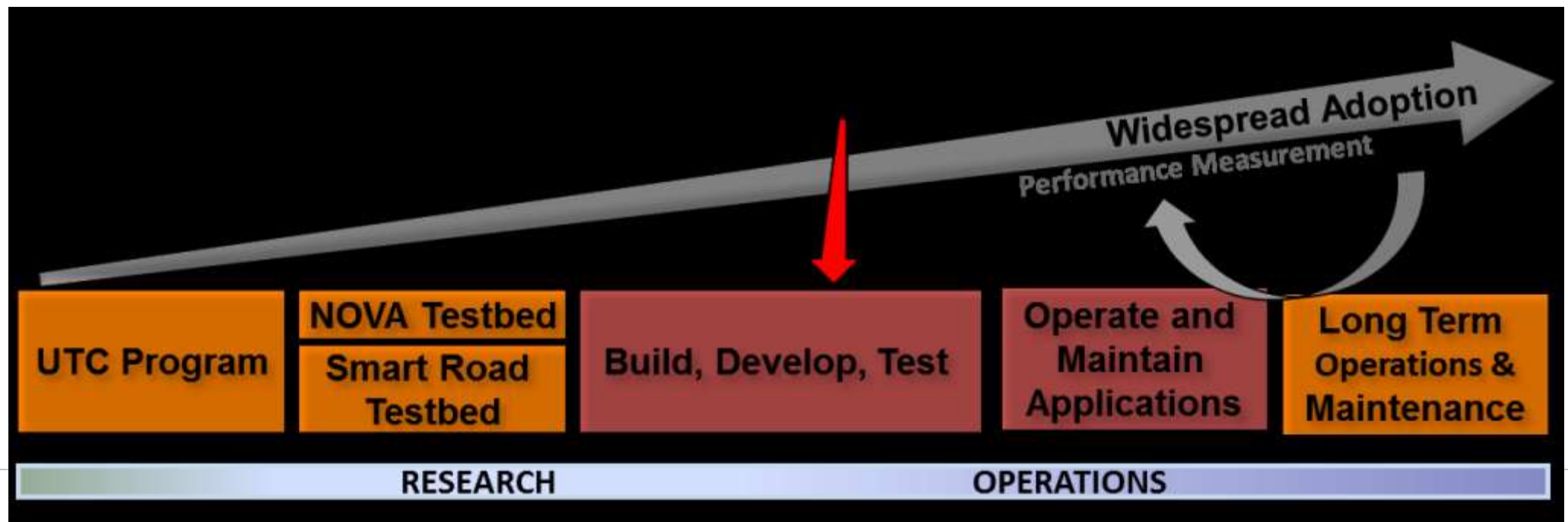
- **Statewide TIM committee is active**
 - Training on best practices
 - Promoting internal and multi-agency reviews
- **DOT**
 - Expanding incident management plans to rural areas
 - New contract for Traffic Ops Centers and Safety Service Patrols

Connected and Automated Vehicles

- **Program Plan**

http://www.virginiadot.org/programs/resources/cav/Release_Final_VDOT_CAV_Program_Plan_Fall_2017.pdf

- VTTI Smart Road expansion and Va Connected Corridor activates
- Improving signing and markings; enhancing intersection operations



SMART SCALE Round 3

Safety Needs

VTRANS 2040 Safety Needs

- Expanded Safety Program Locations (2012-16 Potential for Safety Impr)
 - HSIP uses 3 of 5 years above average sites for Total and F+I crashes
 - SMART SCALE is using 2+ years and a F+I crash threshold

