

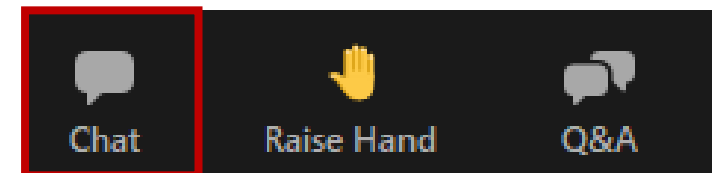
RITIS Workshop

Building a Corridor Performance Summary Report

March 29, 2022

Welcome!

- We are using Zoom **Webinar**
- **AUDIO (Computer):** Use your computer speakers and microphone by clicking the “Join Audio” button at the bottom left of the screen. You will be muted.
- **Alternate Audio (Phone):** Call into the meeting by dialing the phone number based on your location (provided in the confirmation email) and enter the Meeting ID at the prompt. You will be muted.
- **This web meeting is being recorded.**
- **Questions** with the audio or web? Please contact Esther directly via email (ekleit@kmjinc.com)
- The **Chatbox** is not available to participants. Please use the **Q&A box** for questions to the presenters



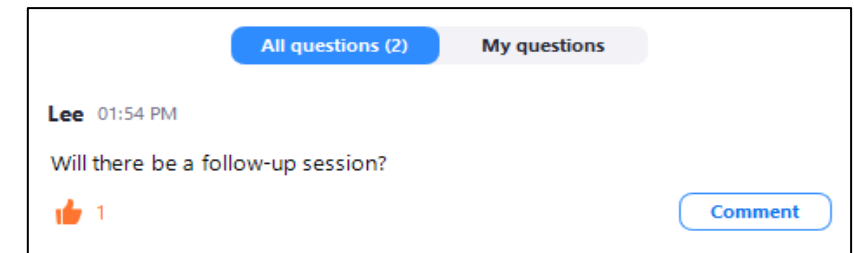
Asking Questions in the Q&A Box



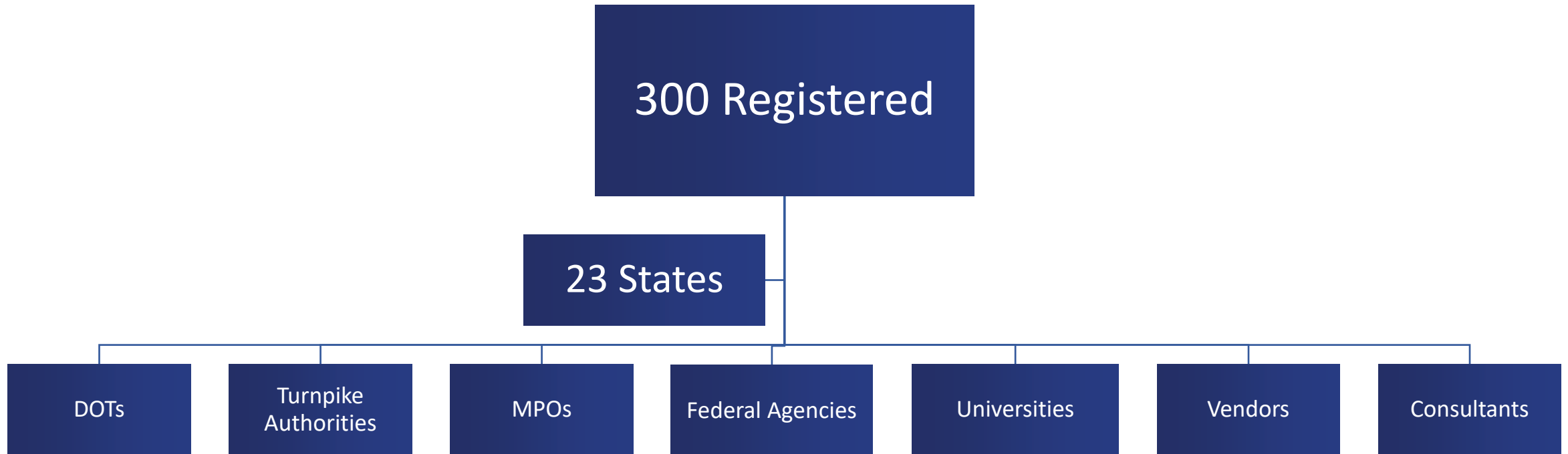
- Questions will be asked in the Q&A box
- Click on the Q&A icon at the bottom of your screen



- The questions in the Q&A box will be monitored and answered either during or at the end of the workshop
- You can keep track of your questions in the “My Questions” tab in the Q&A box



The Eastern Transportation Coalition Sponsored Event



Today's Speakers



John Allen

UMD CATT Lab

*Faculty Assistant, Outreach &
Education*



Rick Ayers

UMD CATT Lab

Public Sector Advocate

Welcome from the Coalition



Denise Markow

The Eastern Transportation Coalition
TSMO Director

— **THE EASTERN
TRANSPORTATION
COALITION**

CONNECTING FOR SOLUTIONS



Who We Are

- **The Eastern Transportation Coalition (TETC)** is a partnership of 17 states and D.C. focused on **connecting public agencies across modes of travel to increase safety and efficiency.**
- In the past 25 years TETC has evolved from a small, highway-focused group to more than **200 public agencies** working together to address the pressing challenges facing the eastern corridor focusing on:
 - **Transportation Systems Management & Operations**
 - **Freight**
 - **Innovation**



WELCOME



— THE EASTERN
TRANSPORTATION
COALITION

CONNECTING FOR SOLUTIONS



Coalition Update



RECENT

- ✓ **Transportation Data Marketplace State & Vendor Meetings (33)** - August 2021 - January 2022
- ✓ **New England HOGs - Fresh Start: Freight Roundtable** - February 17, 2022
- ✓ **RITIS User Group Meeting** - February 24, 2022
- ✓ **TIS Web Summit: Improving Safety - Implementing New Travel Info Services for Commercial Vehicles** - March 17, 2022

UPCOMING

- **RITIS Product Enhancement Working Group Web Meeting** - April 6, 2022
- **New England HOGs - Using RWIS in Winter Operations** - April 7, 2022
- **Understanding Origin-Destination Data: RITIS Workshop #2** - April 8, 2022
- **Electric Vehicle Workshop** - April 12-13, 2022 (invite only)
- **FY2023 Strategic Planning** - April 21, 2022 (Committee members only)
- **Freight Committee Meeting** – April 27, 2022
- **RITIS User Group Meeting** - May 5, 2022
- **Potomac HOGs – Getting Better Information out to Travelers in Winter Operations-** May 11, 2022



Setting the Stage



John Allen

UMD CATT Lab

Faculty Assistant, Outreach & Education



Leveraging Corridor Performance Report Templates from the CATT Lab

► A Workshop for The Eastern Transportation Coalition User Community

Rick Ayers

703.989.3221

rayers@umd.edu

cattlab.umd.edu

The Performance Reporting Working Group

Our Working Group has helped the CATT Lab in:

- Guiding template development
- Test driving product
- Shaping the RITIS templates page
- Promoting performance reporting use



John Allen
UMD CATT Lab



Jesse Buerk
DVRPC



Matt Glasser
GDOT



Charles Lattimer
UMD CATT Lab



Keith Miller
NJTPA



Zoe Neaderland
VAOT



Ed Stylc
BMC



Kelly Wells
NCDOT

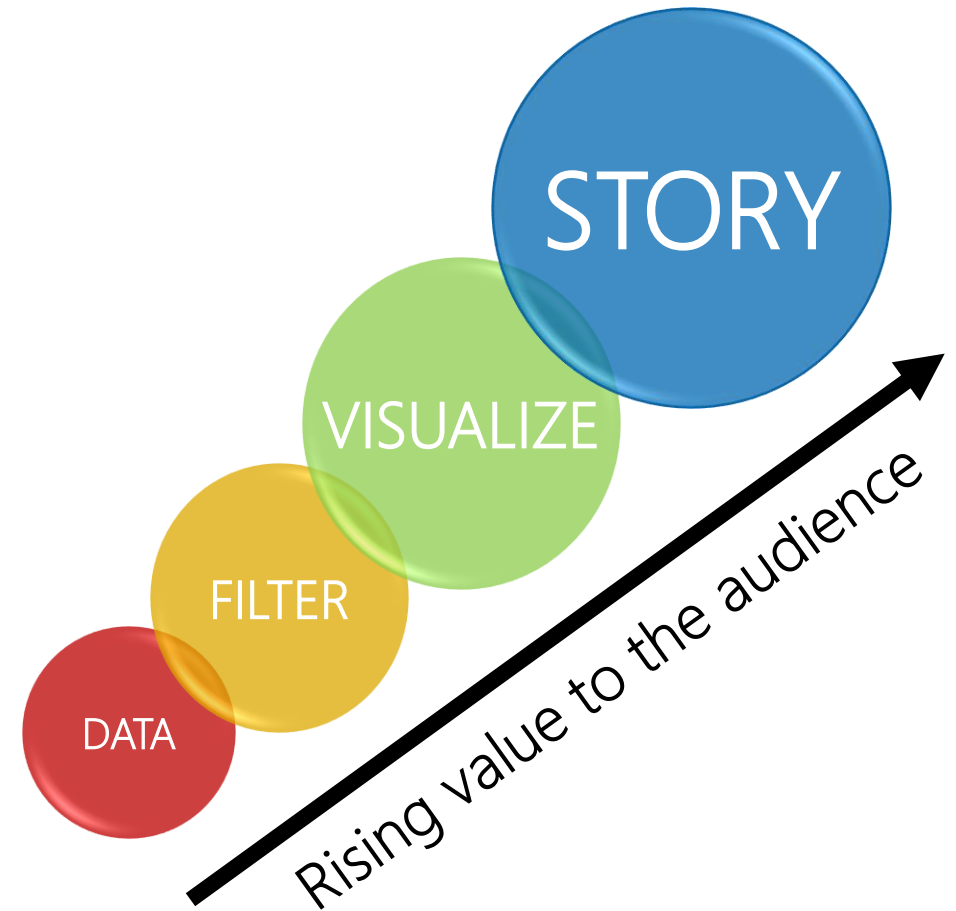
Representing Planning • Operations / DOTs • MPOs / RITIS User Group co-chairs

Our Mission

To help agencies *easily* develop consistent, professional performance reporting documents for telling a “transportation story” in a simple, concise and visually persuasive way...

...**that supports** decision-making, **meets** a requirement or **promotes** an action...

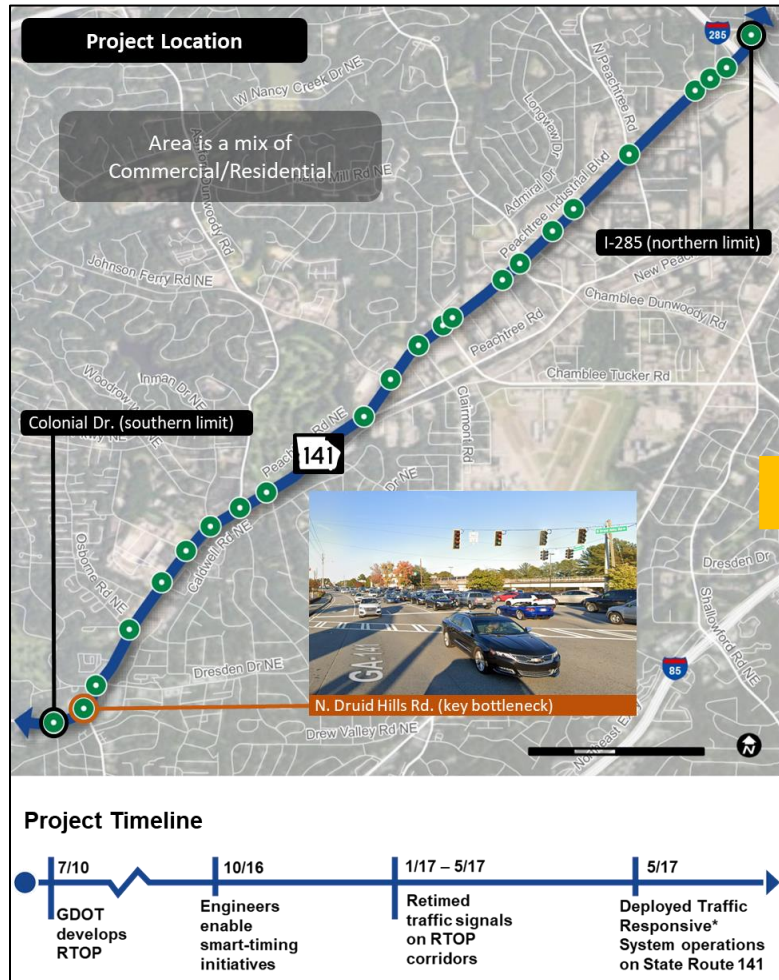
...**and is shareable** with a wide range of audiences.



A basic three-step process to create performance reports

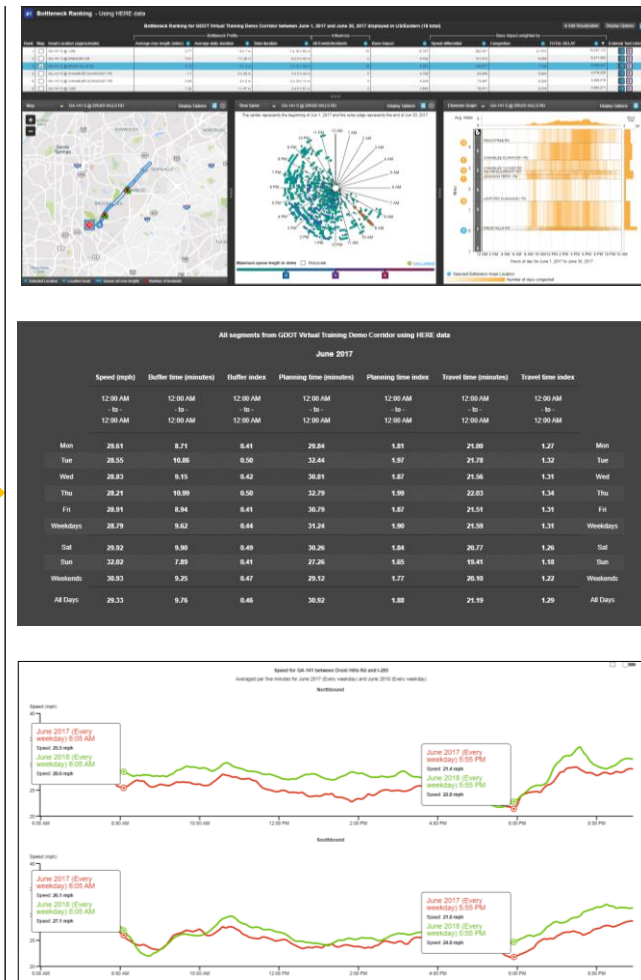
1

Choose a use case



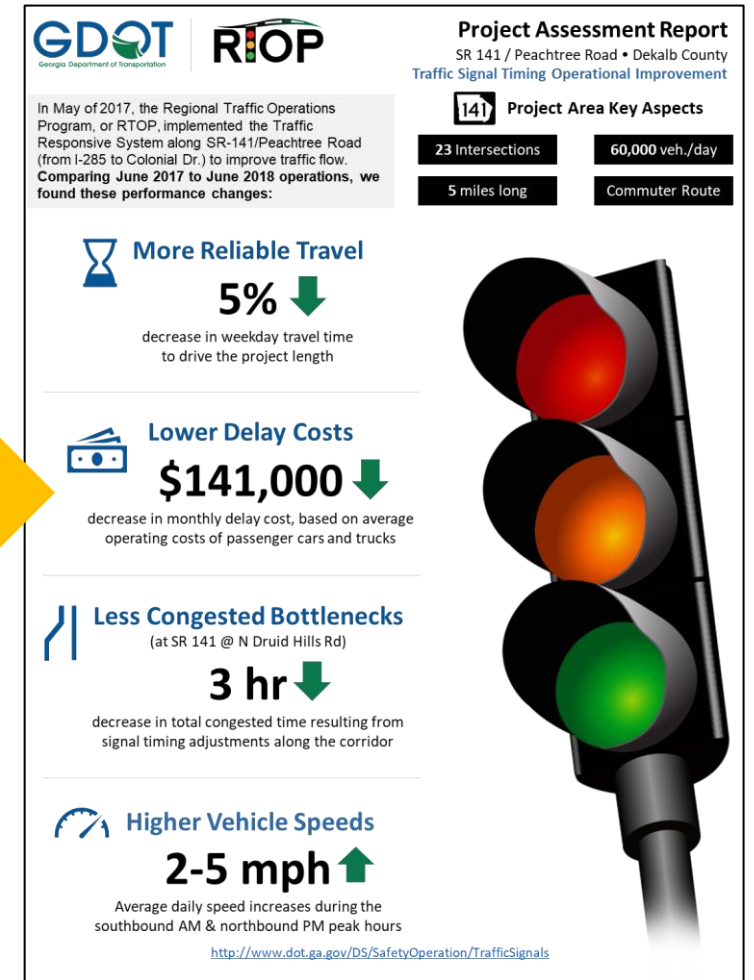
2

Run RITIS tools



3

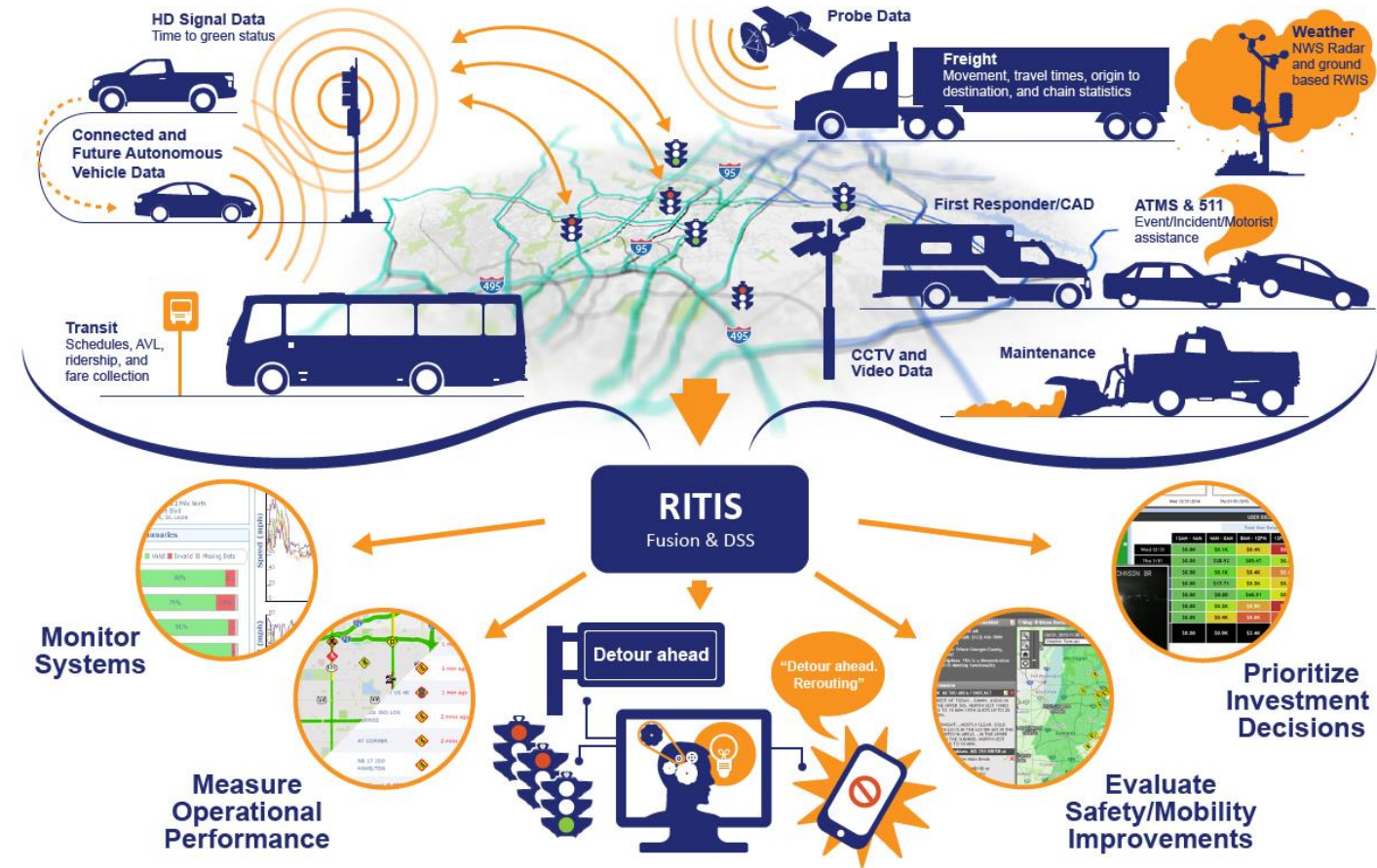
Summarize results in a template



Agenda

- Welcome and Intros
- Overview of RITIS resource site
- Review of PDA tools used to generate corridor and congestion perf. reports
- Report development
 - Monthly congestion performance report
 - Quarterly corridor performance report
- Q&A

<https://ritis.org/intro>



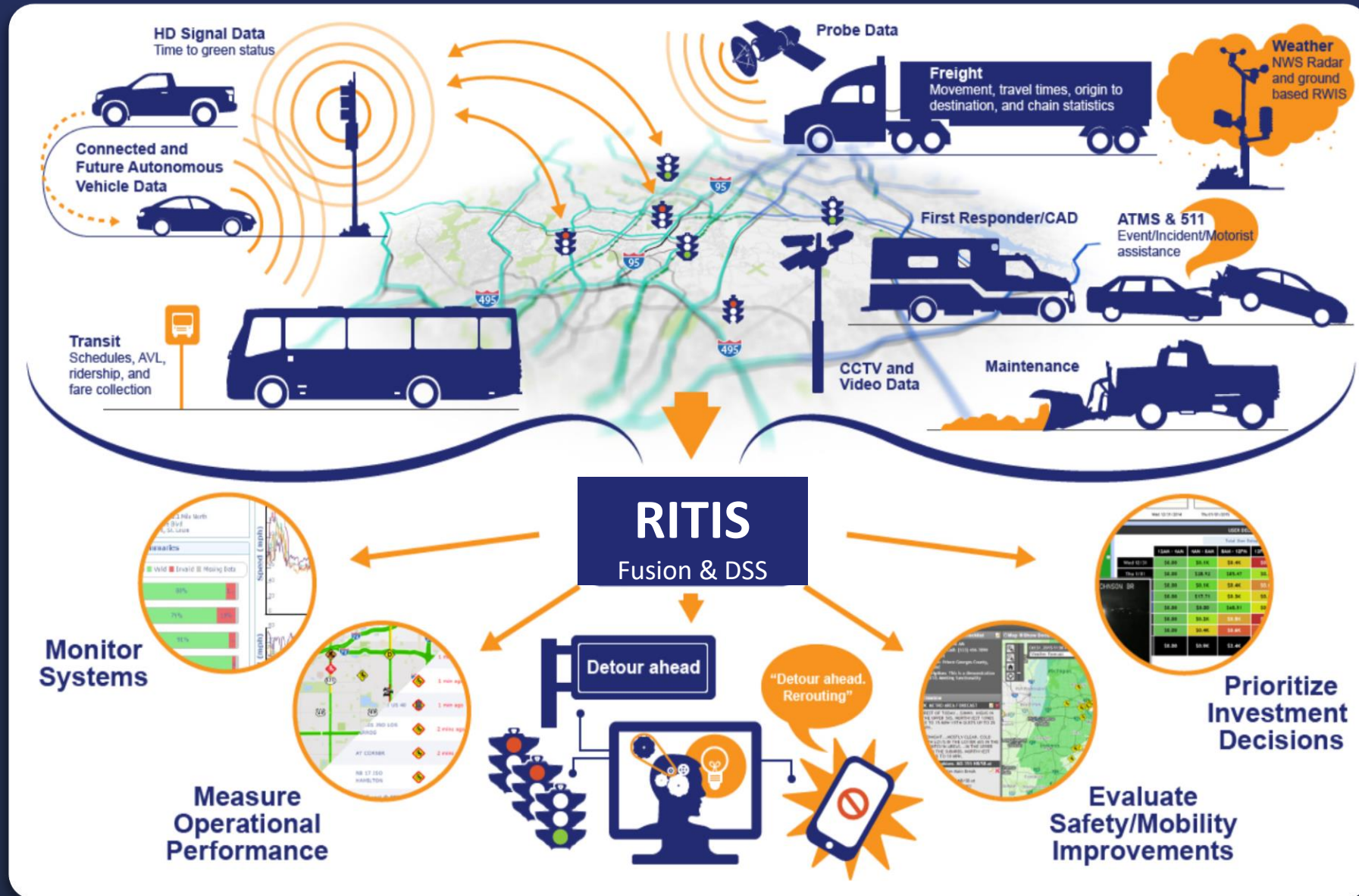
<https://ritis.org>

Attendee Polling – Q1

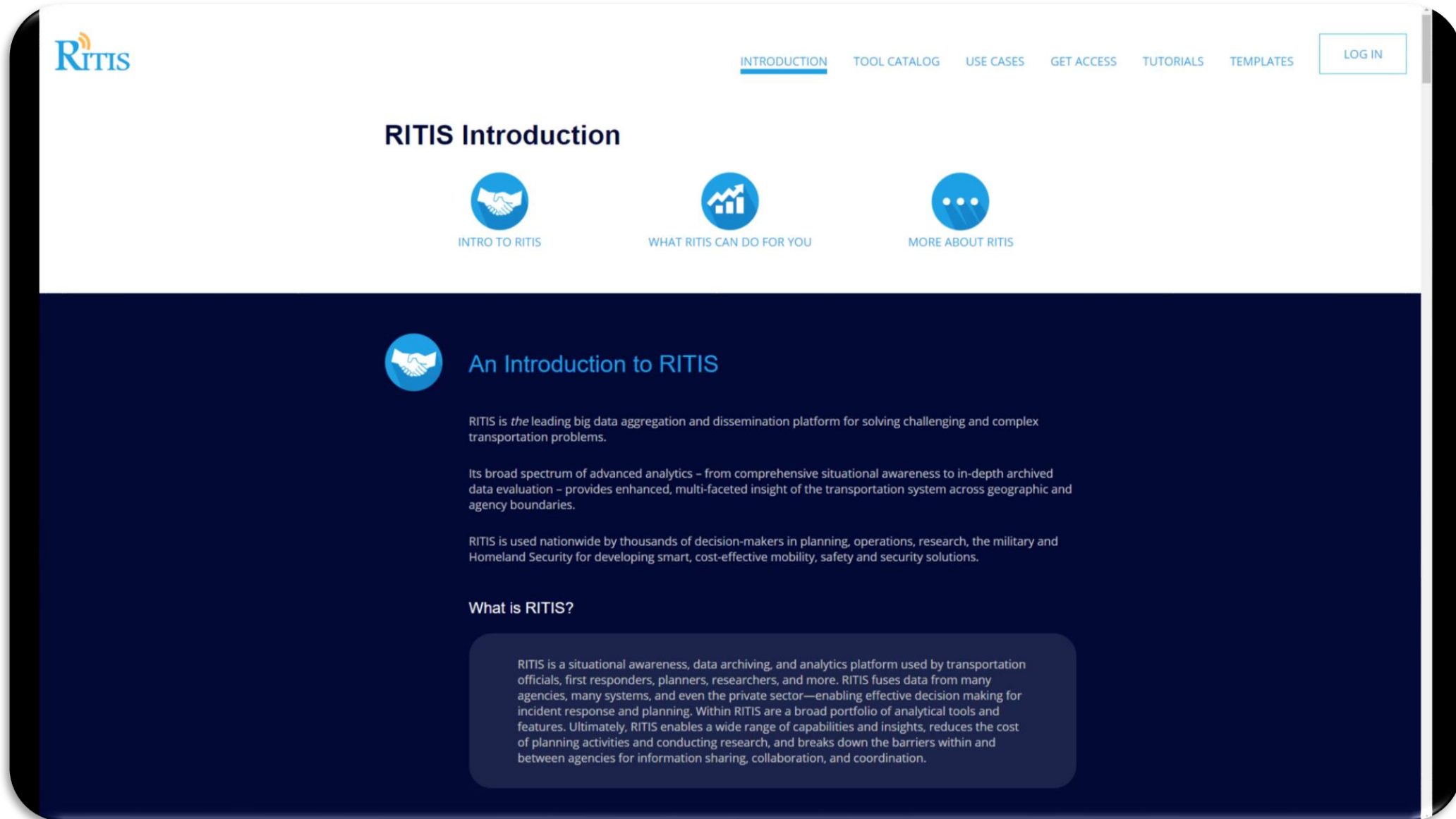
Have you used Probe Data Analytics before?

- Yes - I use PDA about 1-3 times per month
- Yes - I use PDA regularly throughout the month
- No – This is my first time using/learning PDA

Regional Integrated Transportation Information System



RITIS Resources




The screenshot shows the RITIS website's introduction page. At the top left is the RITIS logo. A navigation bar at the top right contains links for INTRODUCTION, TOOL CATALOG, USE CASES, GET ACCESS, TUTORIALS, and TEMPLATES, with a LOG IN button. The main heading is 'RITIS Introduction'. Below it are three circular icons with labels: 'INTRO TO RITIS' (handshake icon), 'WHAT RITIS CAN DO FOR YOU' (bar chart icon), and 'MORE ABOUT RITIS' (three dots icon). The 'INTRO TO RITIS' section is highlighted with a dark blue background. It features a handshake icon, the title 'An Introduction to RITIS', and three paragraphs of text describing the platform's capabilities and usage. A 'What is RITIS?' section follows, containing a detailed paragraph about the platform's role in transportation and security.


RITIS

[INTRODUCTION](#) [TOOL CATALOG](#) [USE CASES](#) [GET ACCESS](#) [TUTORIALS](#) [TEMPLATES](#) [LOG IN](#)


RITIS Introduction




INTRO TO RITIS



WHAT RITIS CAN DO FOR YOU



MORE ABOUT RITIS



An Introduction to RITIS

RITIS is *the* leading big data aggregation and dissemination platform for solving challenging and complex transportation problems.

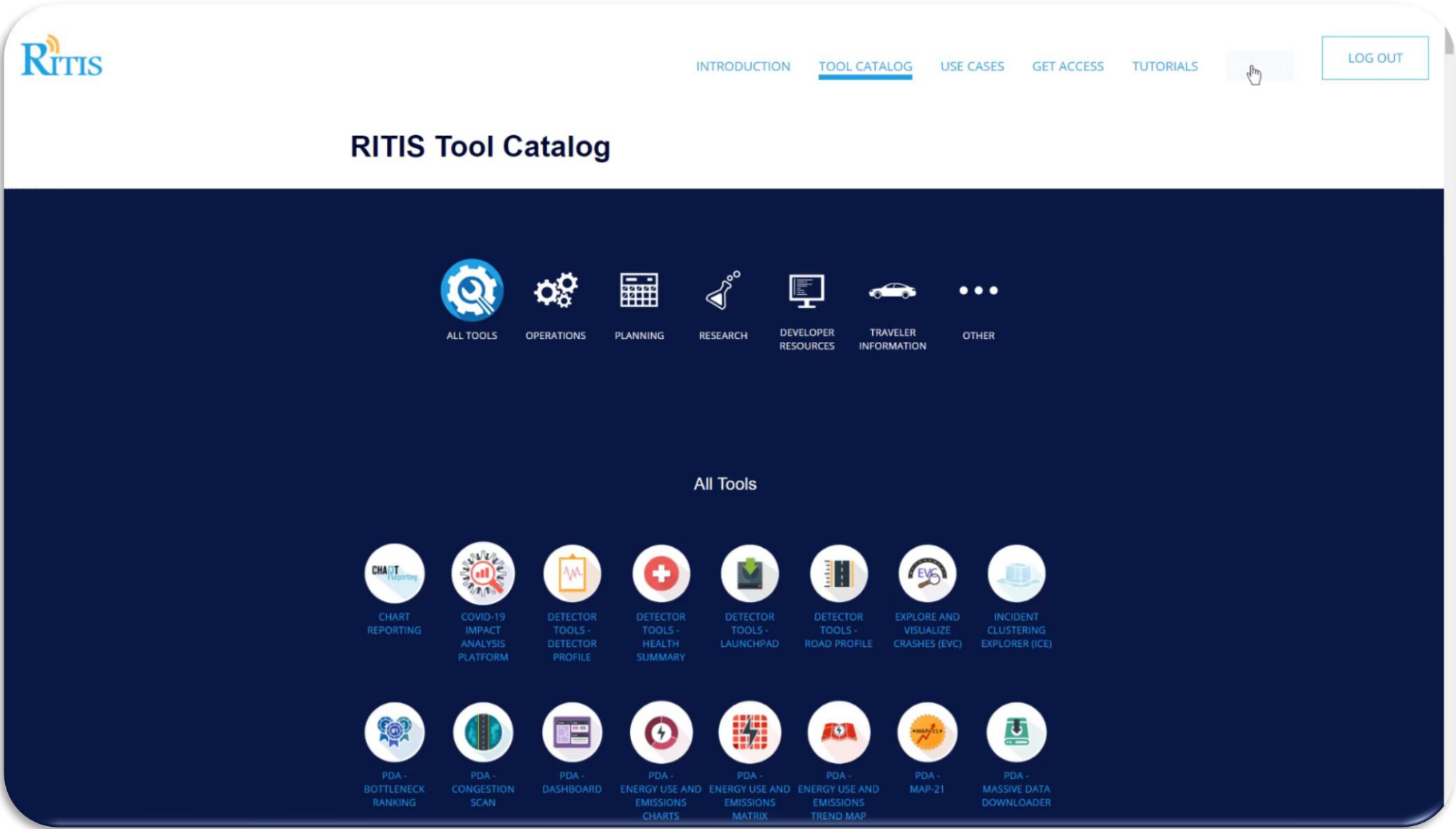
Its broad spectrum of advanced analytics – from comprehensive situational awareness to in-depth archived data evaluation – provides enhanced, multi-faceted insight of the transportation system across geographic and agency boundaries.

RITIS is used nationwide by thousands of decision-makers in planning, operations, research, the military and Homeland Security for developing smart, cost-effective mobility, safety and security solutions.

What is RITIS?

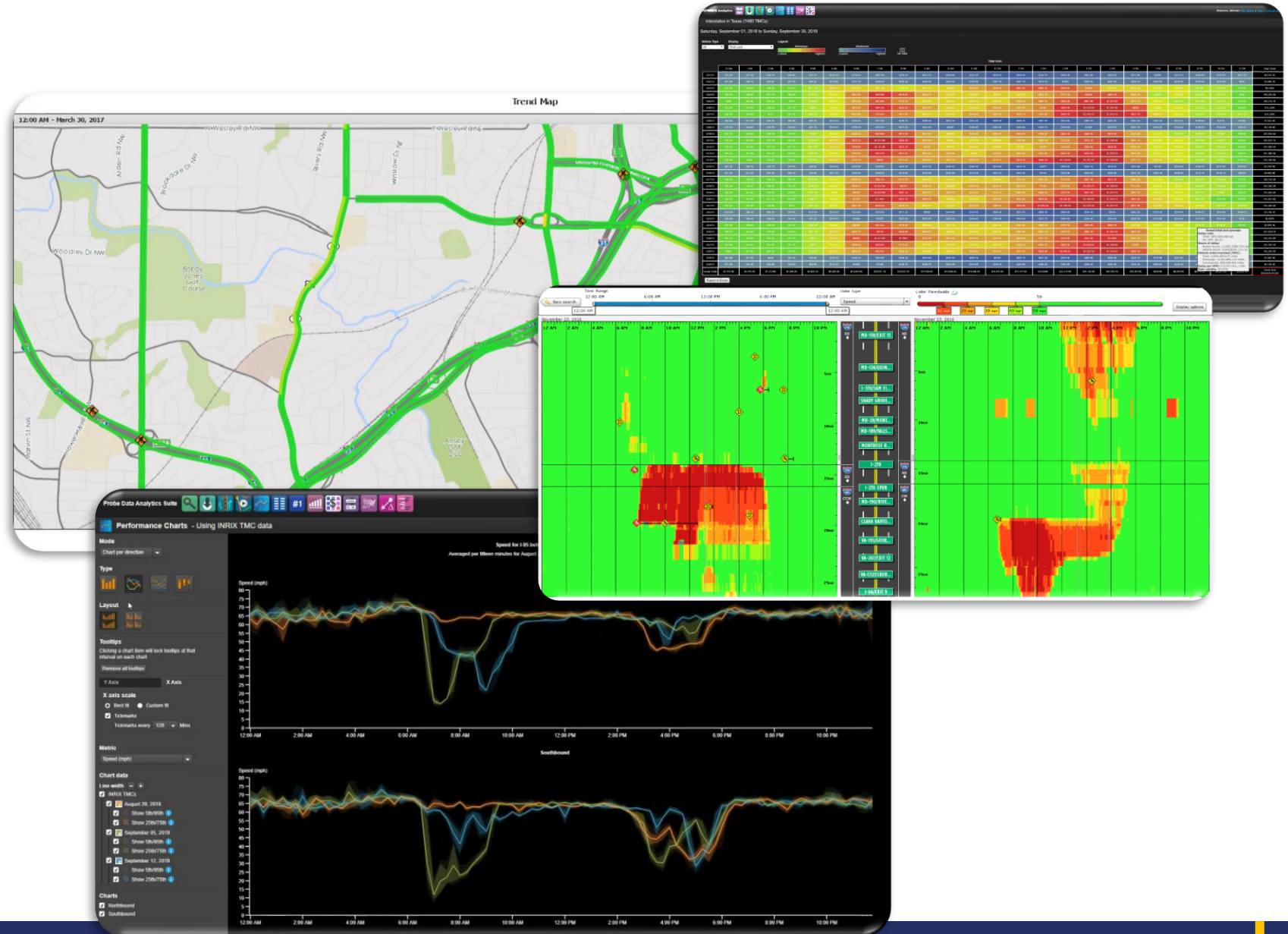
RITIS is a situational awareness, data archiving, and analytics platform used by transportation officials, first responders, planners, researchers, and more. RITIS fuses data from many agencies, many systems, and even the private sector—enabling effective decision making for incident response and planning. Within RITIS are a broad portfolio of analytical tools and features. Ultimately, RITIS enables a wide range of capabilities and insights, reduces the cost of planning activities and conducting research, and breaks down the barriers within and between agencies for information sharing, collaboration, and coordination.

RITIS Report Templates

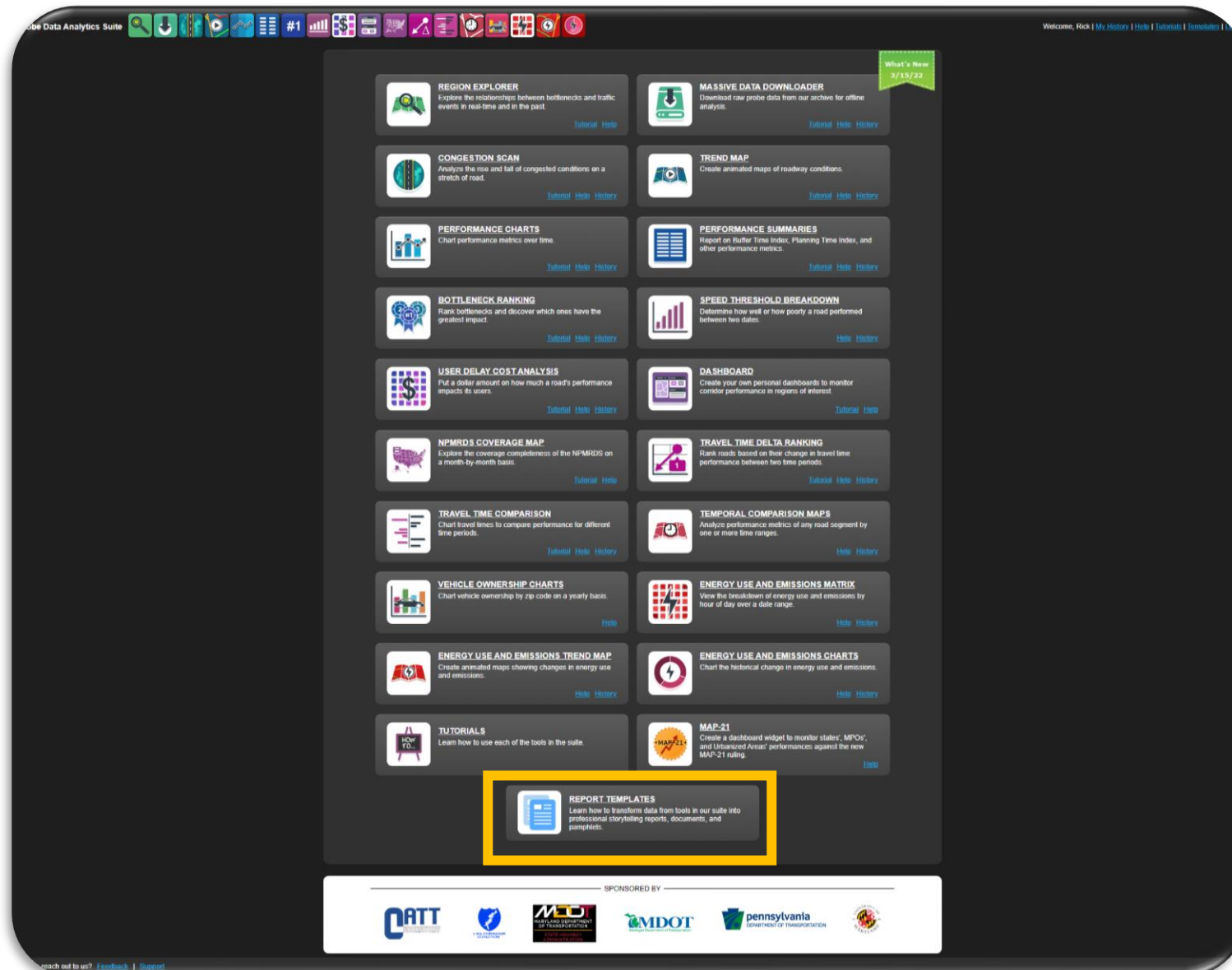


Probe Data Analytics – Why Report Templates?


- **DATA DRIVEN INSIGHTS**
- **OPERATIONS**
 - Signalized corridor before & after studies
 - After-action incident review
 - Work zone impacts
 - Safety and operations
 - Significant event analysis
- **PLANNING**
 - Program reviews for project prioritization
 - Business case justification
 - Public information campaigns
 - Federal reporting



Probe Data Analytics Suite – Report Templates




Report Templates – Tell Your Story



INTRODUCTIONTOOL CATALOGUSE CASESGET ACCESTUTORIALSTEMPLATESLOG IN


Templates

This template gallery provides performance reporting examples you can download and use - with output from RITIS tools and your own content - to create professional, easy to understand reports. To get started, click on any of the report icons below to learn more about each type of report, how they were created and access a fully editable PowerPoint™ template file.




CORRIDOR PERFORMANCE REPORT

Create a report that describes the performance of a corridor over a selected time periods (quarterly, yearly) and compares that performance with previous periods.



MONTHLY CONGESTION REPORT

Create a monthly report that describes the performance of a roadway over the previous 12 months.



PROJECT ASSESSMENT REPORT

Create a report that describes the performance of a roadway or corridor before and after an operational or capital improvement project.

Contact Us

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College Park, MD 20742

Phone: 301-405-9963
Fax: 301-403-4591
Email: INFO@CATTLAB.UMD.EDU

Site navigation

INTRODUCTION
TOOL CATALOG
USE CASES
GET ACCESS
TUTORIALS
TEMPLATES

LOG IN

Corridor Performance Reports

Use this template to create a report that describes the performance of a corridor over a selected time period (quarterly, yearly) and compares that performance with previous periods.

Overview

1. Click to download the PowerPoint template to create a report that describes the performance of a corridor over the course of a year and compares that performance with previous years. Additional design resources are also available.

You must [log in](#) to download this template.
2. Download Agency Use Case examples below to see how other agencies have used these templates or have created similar reports using content from RITIS.
 - [NJDOT US-1 Corridor Performance Report](#)
 - [DVRPC I-76 Corridor Performance Report](#)
 - [MassDOT I-95 Individual Corridor Profile](#)
 - [MD US-1 Corridor Performance - One Pager](#)
 - [MD US-1 Corridor Performance - One Pager - Portrait](#)
3. Scroll down to learn how to create this report or click on the 'How To Create Report' in the navigational menu.

Project Assessment Report

Use this template to create a report that compares before and after, or other conditions for a new operational or capital improvement project or program, major event or other situations to ascertain improvements (or impacts) to a roadway's performance.

Overview

1. Click to download the PowerPoint template to create a report that describes the performance of a roadway before and after an improvement or event. Additional design resources are also available.

You must [log in](#) to download this template.
2. Download Agency Use Case examples below to see how other agencies have used these templates or have created similar reports using content from RITIS.
 - [GDOT SR141 / Peachtree Road Signal Timing Operational Improvement \(using this template\)](#)
 - [GDOT I-75 \(SR54 to Walt Stevens Rd\) Concrete Rehabilitation \(using this template\)](#)
 - [NJDOT US-1 \(Brunswick Pike to US-9\) Traffic Signal Timing Improvement \(using a one-page template\)](#)
3. Scroll down to learn how to create this report or click on the 'How To Create Report' in the navigational menu.

Monthly Congestion Reports

Use this template to create a monthly report that describes the performance of a roadway over the previous 12 months.

Overview

1. Click to download the PowerPoint template to create a monthly report that describes the performance of a roadway over the previous 12 months.

You must [log in](#) to download this template.
2. Download Agency Use Case examples below to see how other agencies have used these templates or have created similar reports using content from RITIS.
 - [MassDOT Monthly Traffic Report](#)
3. Scroll down to learn how to create this report or click on the 'How To Create Report' in the navigational menu.

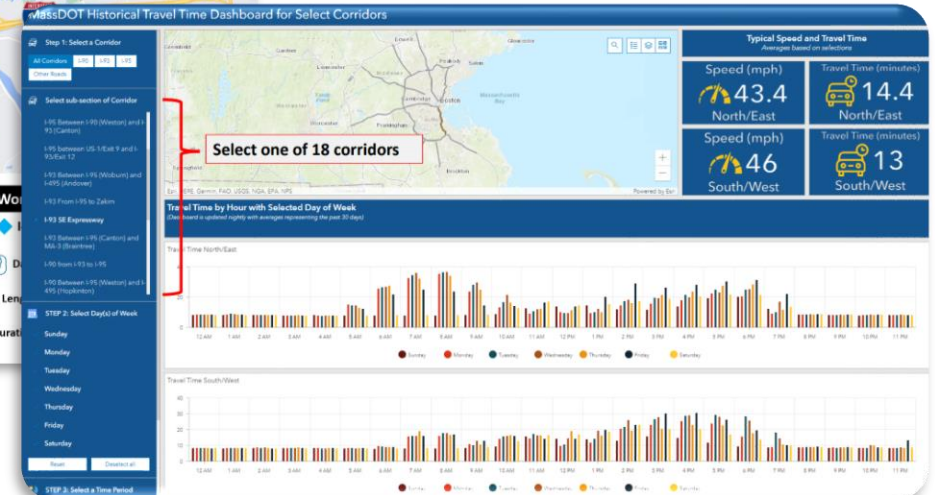
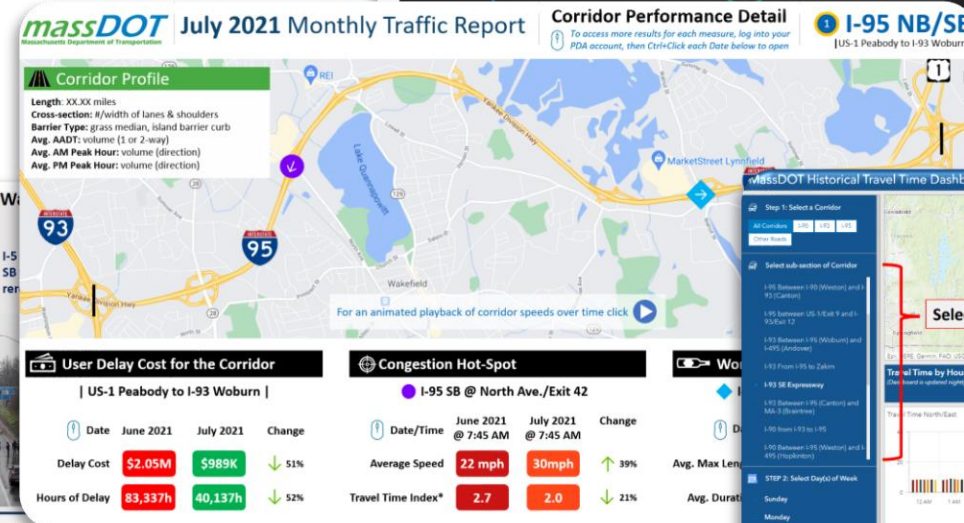
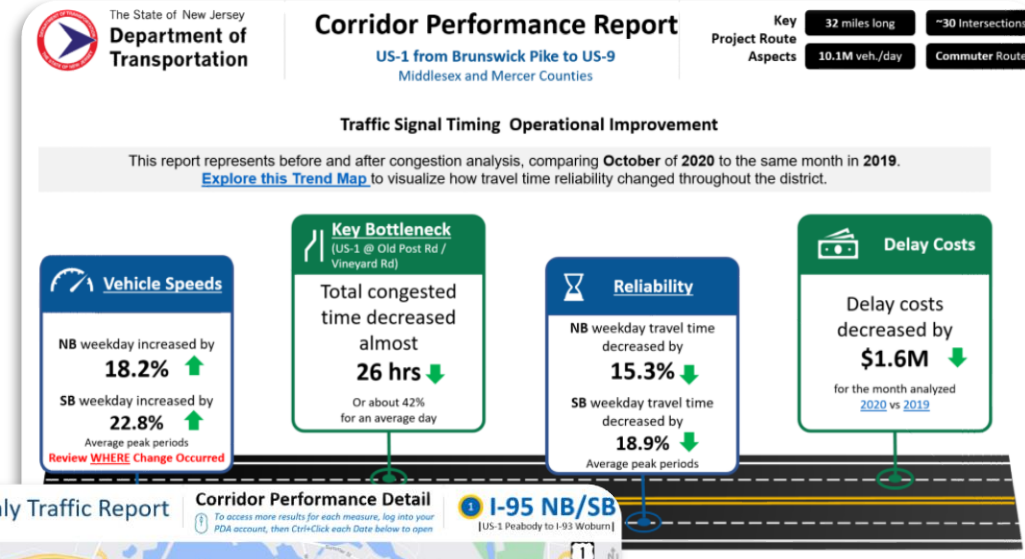
TETC | RITIS Training Session

March 29, 2022

22

Report Templates – Use Cases

- Massachusetts DOT
- New Jersey DOT
- Oregon DOT
- Delaware Valley Regional Planning Commission



Attendee Polling – Q2

Have you downloaded and used any of the existing RITIS Report Templates available on the RITIS platform before today's workshop?

- Yes, I have
- Not yet, but I plan to
- I didn't know about them

Southbound PM congestion from Lorton Rd. extends to I-95 during the afternoon peak.

Volume-related delays are caused by factors such as:

- High volume
- [Click inset map to open an animation of congestion for the reported month](#)



Monthly Congestion Performance Report

Feb. 2022

\$177,596

The Total Delay Cost
for Feb. of 2022

[Click on an icon for more detail](#)

46.7 mph

The Average **AM Peak Hour**
Speed, @ 9:15 AM - **11%**
lower than free flow speed

21.3 mph

The Average **PM Peak Hour**
Speed, @ 5:40 PM - **46%**
lower than free flow speed

A

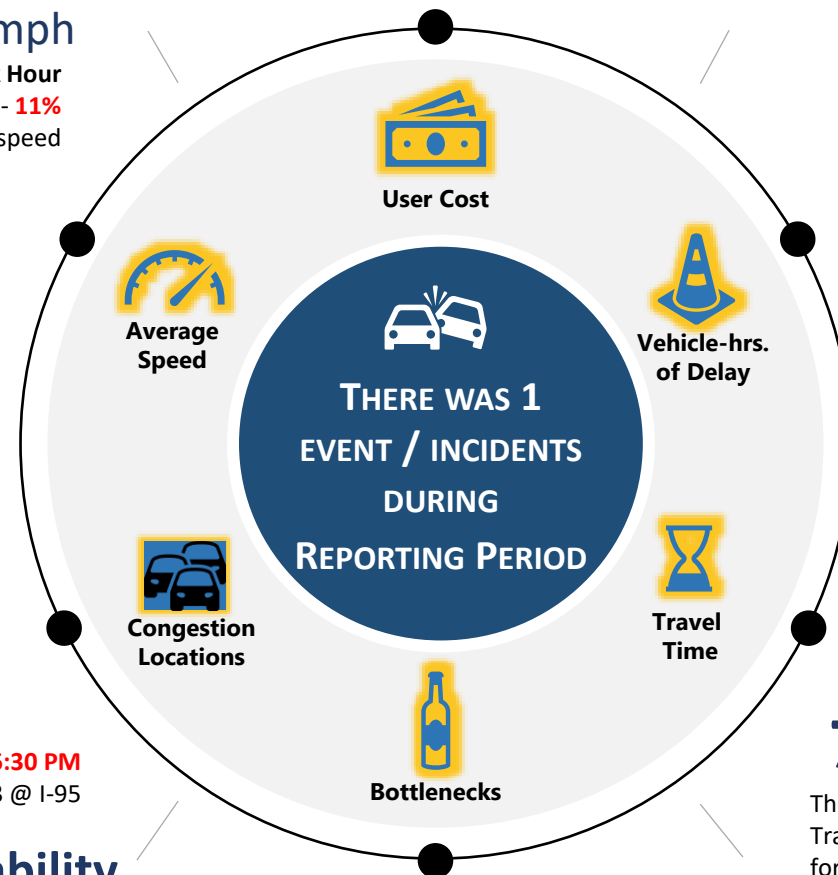
None
No significant AM congestion
locations

B

3:00-6:30 PM
Lorton Rd. to VA-123 @ I-95

Travel Time Reliability Feb. vs. Jan

The variation in Travel Time
Reliability **improved modestly**
between these periods.



5,881 hr

The Vehicle-hrs. of Delay
for Feb. of 2022

3.5 min

The Average **AM Peak Hour**
Travel Time. Drivers should plan
for up to **5 min** to be on time

7.4 min

The Average **PM Peak Hour**
Travel Time. Drivers should plan
for up to **13 min** to be on time

3 pm - 6:30 pm

Most of the Bottlenecks along this
roadway occurred between these times



Quarterly Corridor Performance Report

Q1 2022 vs Q1 2021

Analyzed for the Northern Virginia District
Interstates Only

Key
District
Metrics

Interstates

~34.1M veh./day

~170 mi. of road

Northern VA

This quarterly report evaluates key performance indicators across the Northern Virginia District and is focused on interstates throughout the district. [Explore this Trend Map](#) to visualize how travel time reliability changed throughout the district.



Vehicle Speeds

Average Speeds

AM -5% ↓

PM -6% ↓

Weekday Peak

[Review WHERE Change Occurred](#)



Key Bottleneck

(I-95 S @ VA-123, Exit 160)

[CLICK MAP TO VIEW](#)

Total Congested Time

24 days 1 hr

749 incidents in Q1 of 2022
Contributing to this bottleneck



Reliability

Weekday Travel
Time **INCREASED**

4% ↑

During Weekday
AM and PM peak hours



Delay Costs

Delay Costs
INCREASED

~\$9.7M ↑

[Q1 2022 UDC Report](#)
[Q1 2021 UDC Report](#)

Probe Data– Share Your Story

Transportation Big Data Analytics for the Enterprise



Temporal
Comparison Maps



Trend Map



Performance Summaries



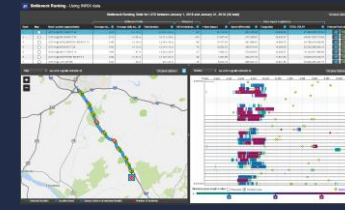
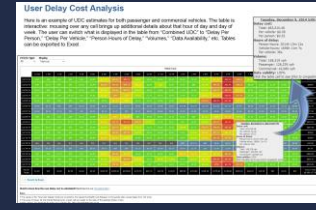
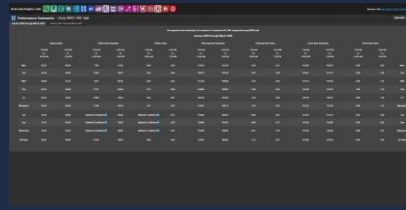
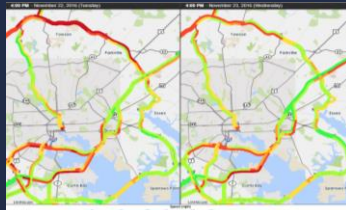
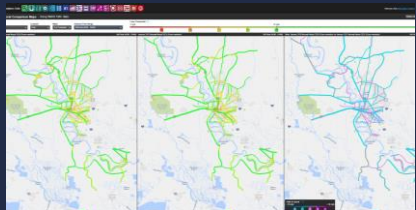
User Delay Cost



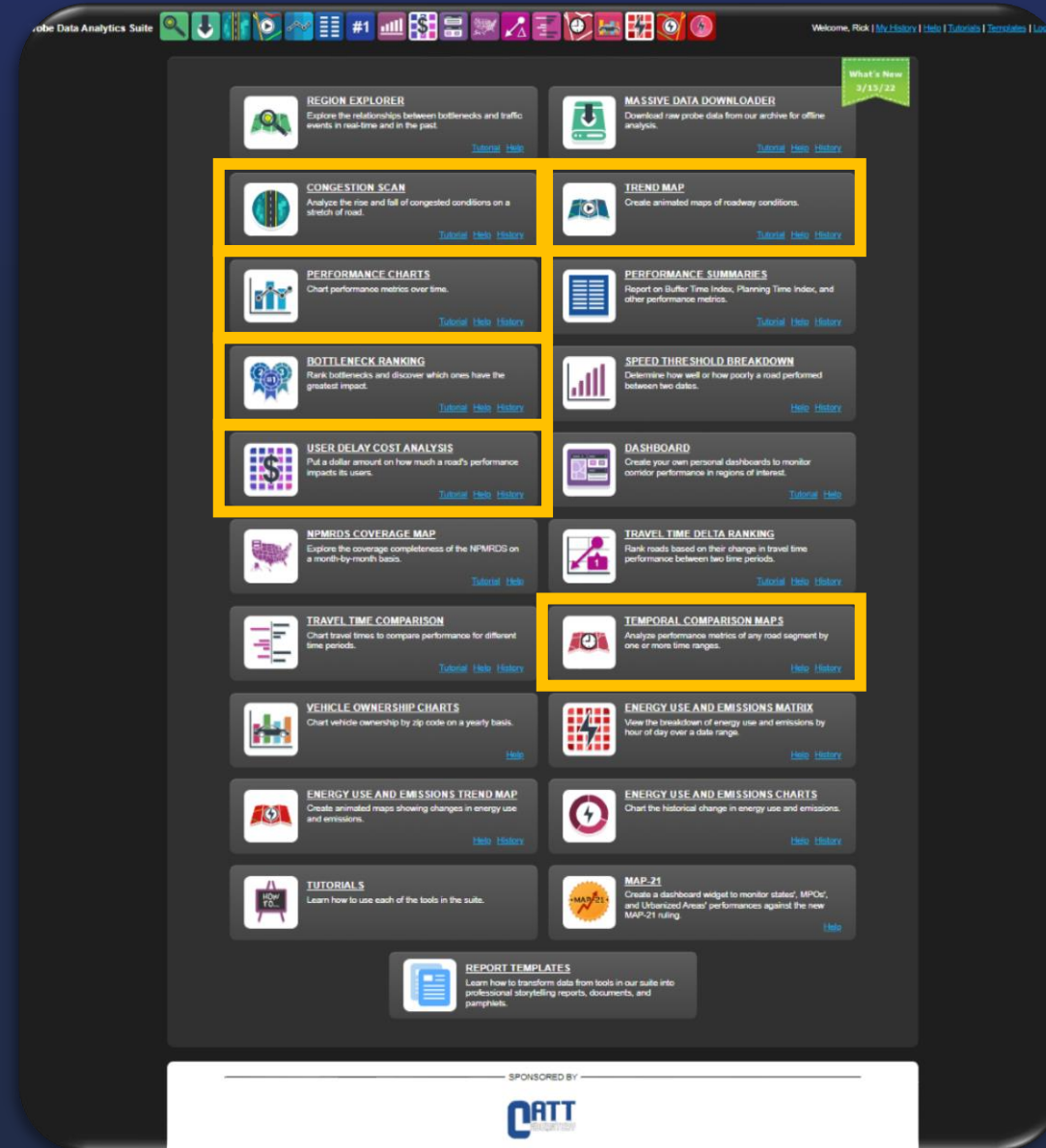
Bottleneck Ranking



Congestion Scan



Probe Data Analytics Suite – Share Your Story

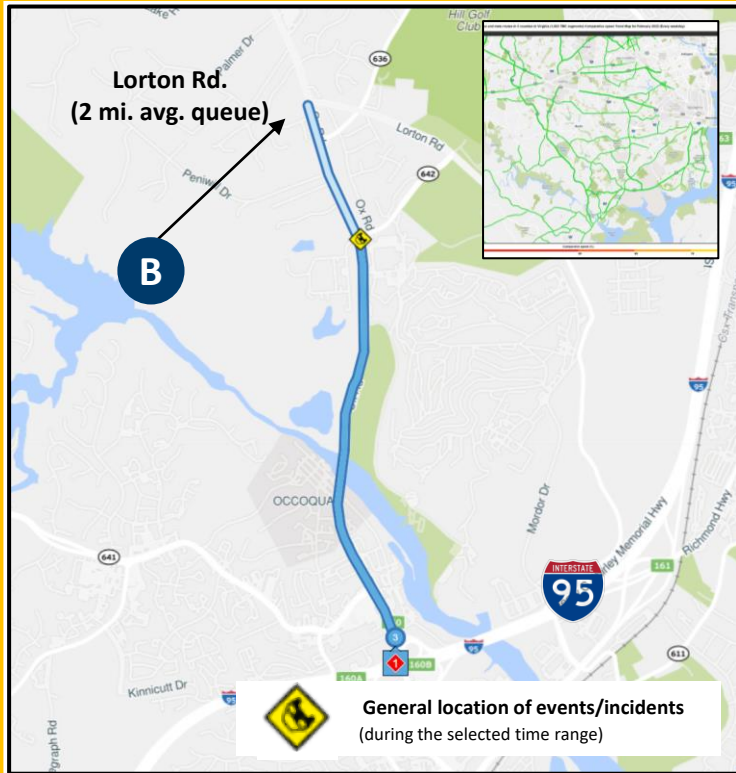


<https://pda.ritis.org>

Southbound PM congestion from Lorton Rd. extends to I-95 during the afternoon peak.

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Monthly Congestion Performance Report

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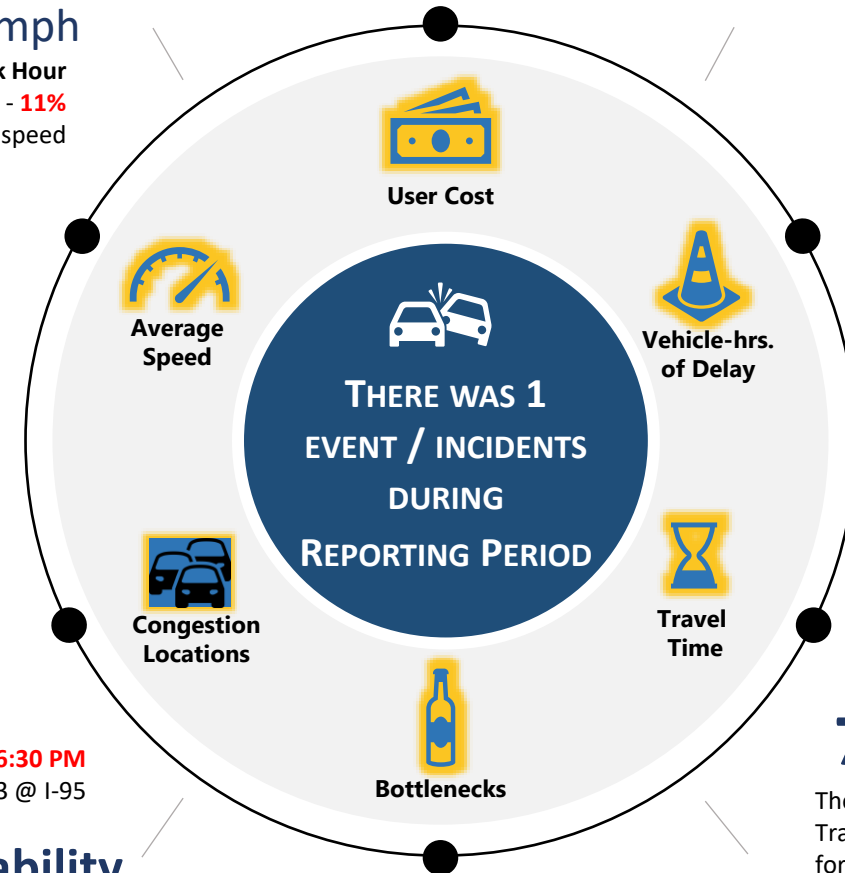
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3:00-6:30 PM
Lorton Rd. to VA-123 @ I-95

Travel Time Reliability Feb. vs. Jan

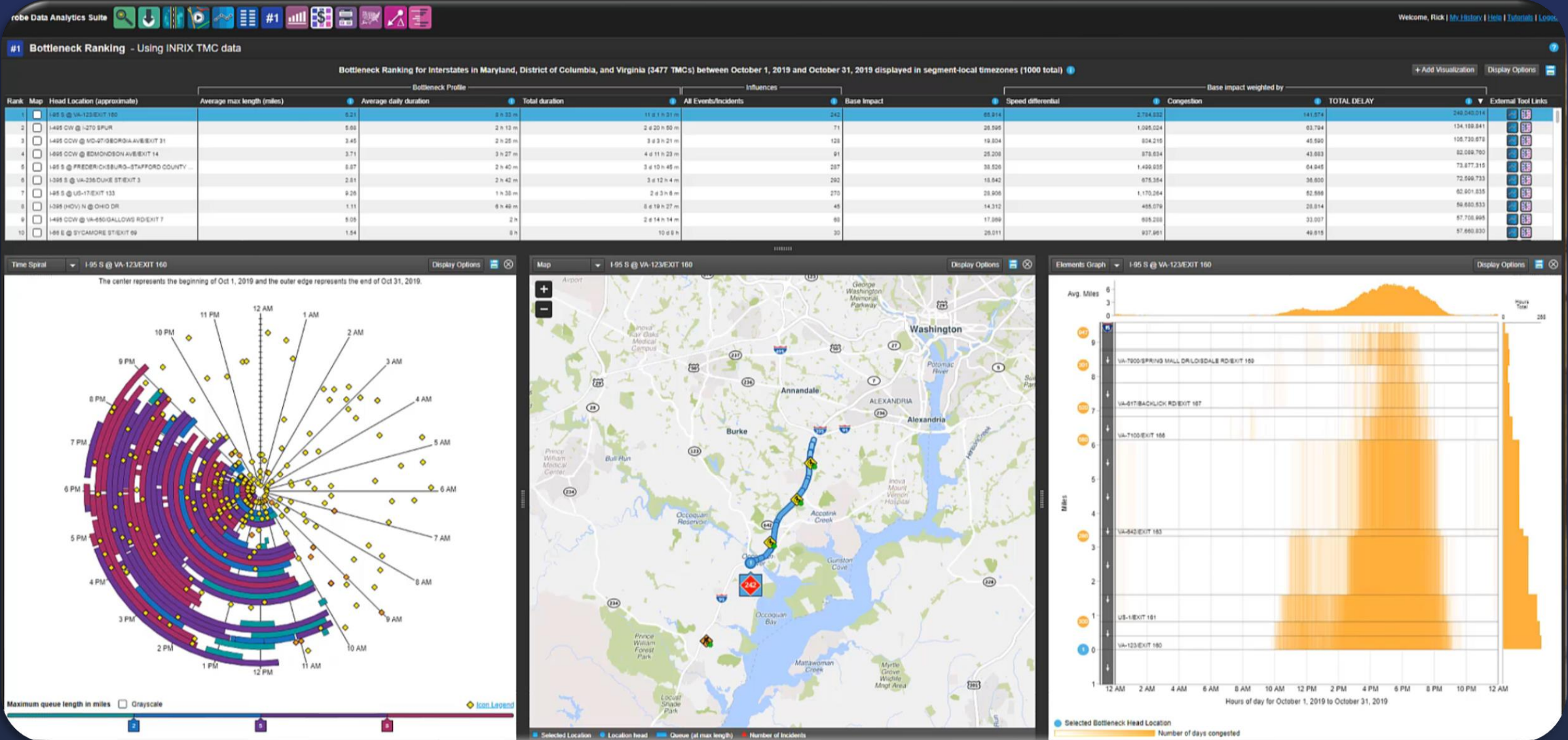
The variation in Travel Time
Reliability **improved modestly**
between these periods.



3 pm - 6:30 pm

Most of the Bottlenecks along this
roadway occurred between these times

Bottleneck Ranking (project prioritization)



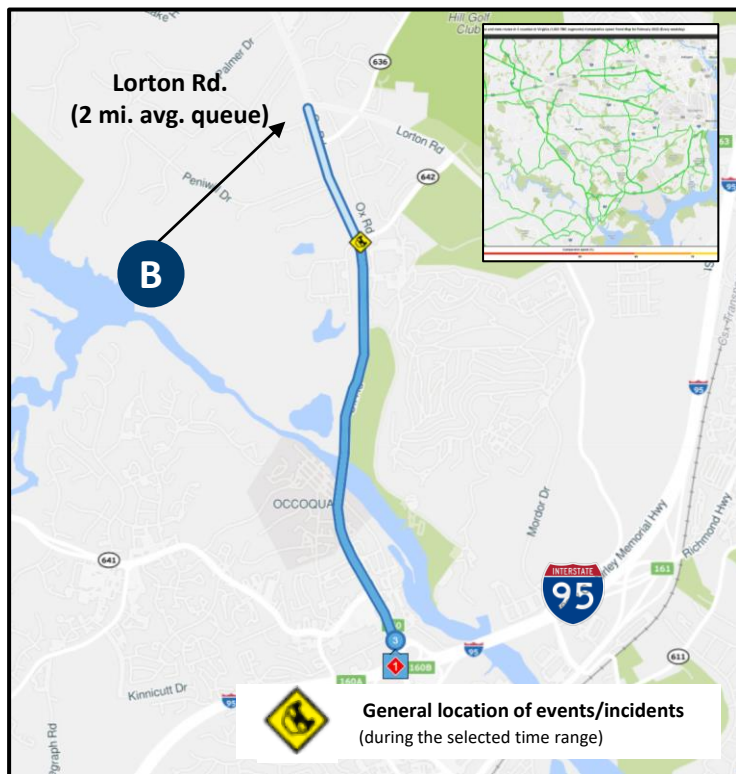
Bottleneck Ranking Report



Southbound PM congestion from Lorton Rd. extends to I-95 during the afternoon peak.

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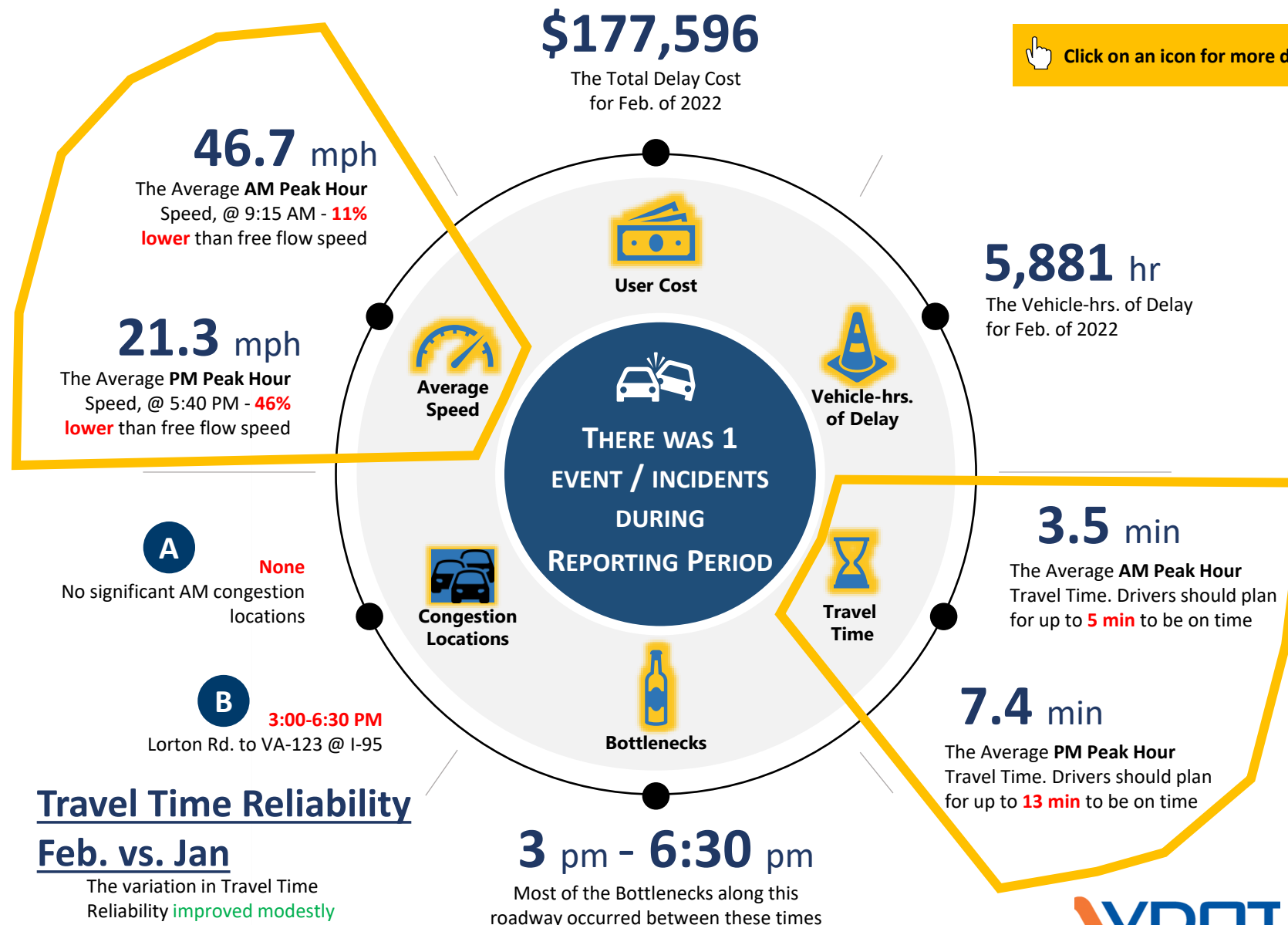
- High volume
- [Click inset map to open an animation of congestion for the reported month](#)



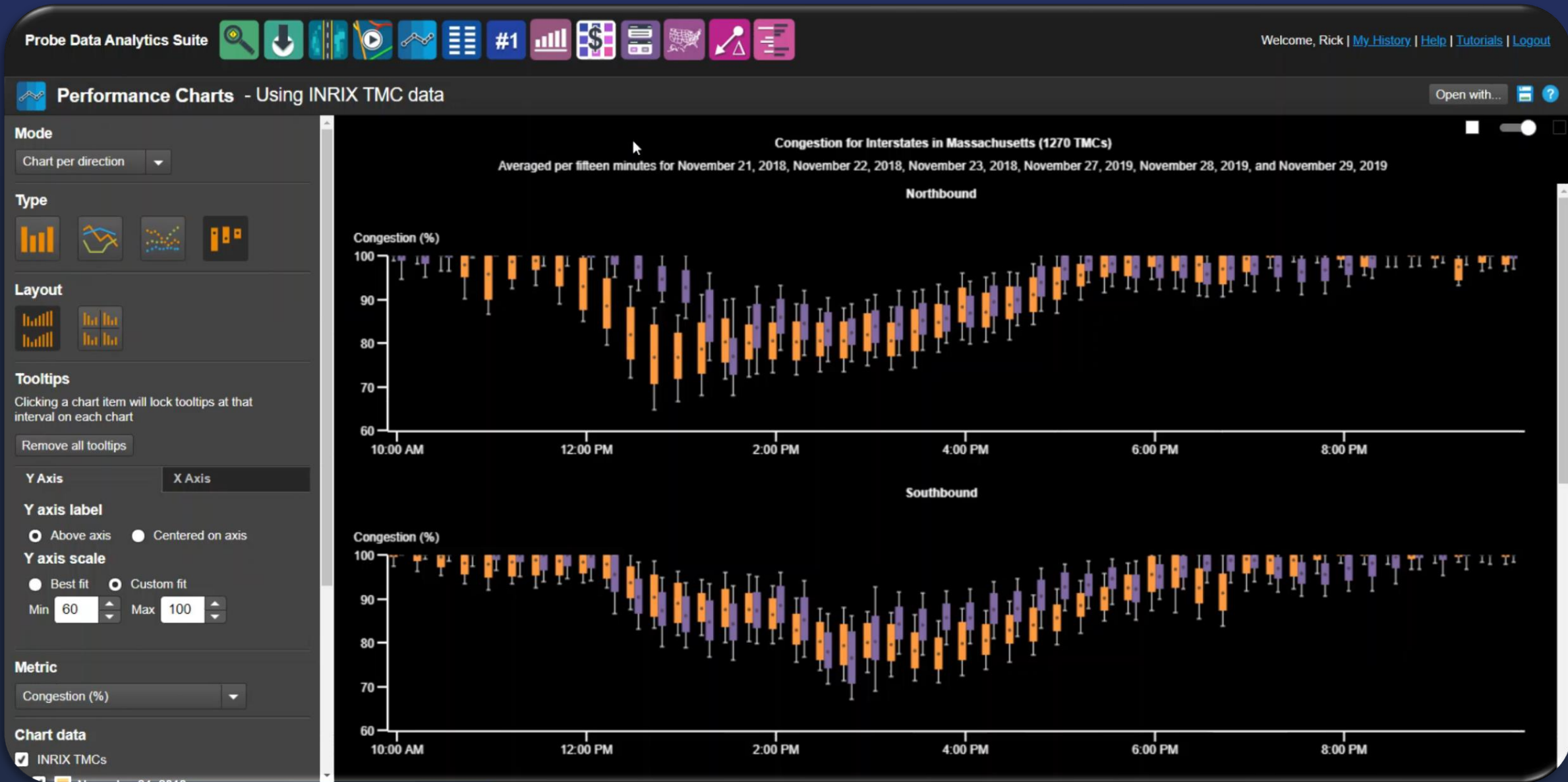
Monthly Congestion Performance Report

Feb. 2022

Click on an icon for more detail



Performance Charts & Summaries



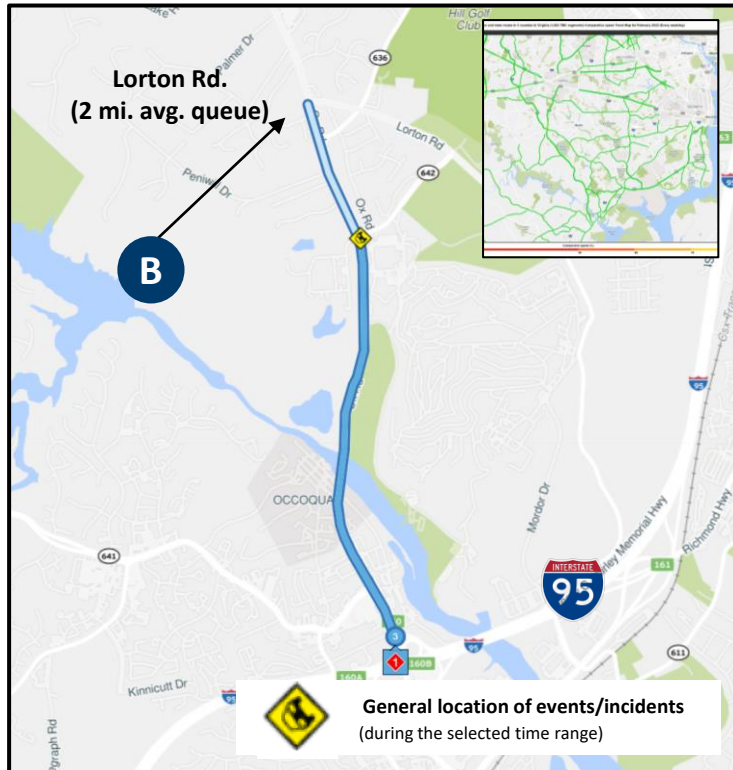
Performance Charts & Summaries



Southbound PM congestion from Lorton Rd. extends to I-95 during the afternoon peak.

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Monthly Congestion Performance Report **Feb. 2022**

Travel Time Reliability Feb. vs. Jan

The variation in Travel Time Reliability **improved modestly** between these periods.

21.3 mph
The Average **PM Peak Hour** Speed, @ 5:40 PM - **46%** lower than free flow speed

A **None**
No significant AM congestion locations

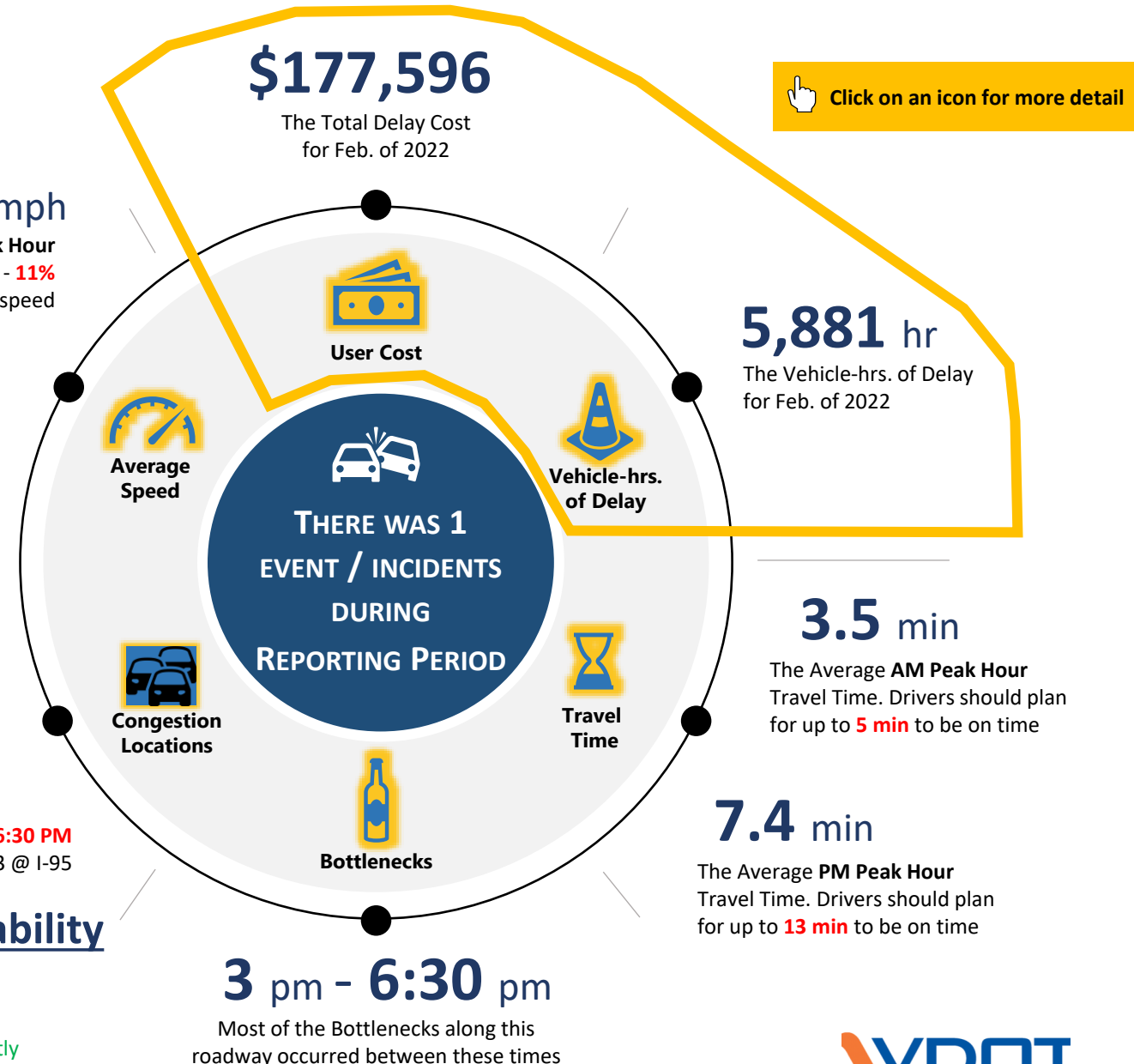
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46.7 mph

The Average **AM Peak Hour** Speed, @ 9:15 AM - **11%** lower than free flow speed

3 pm - 6:30 pm

Most of the Bottlenecks along this roadway occurred between these times



User Delay Costs (make the case for funding)



Probe Data Analytics Suite

Welcome, Rick | [My History](#) | [Help](#) | [Tutorials](#) | [Logout](#)

Tanker Crash, I-95 SB past VA-294, Prince William County, VA

Sunday, July 01, 2018 to Friday, August 31, 2018

Vehicle Type: Display: Legend: No data

	Total Cost																								Daily Totals
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	
7/01/18	\$0.8K	\$0.4K	\$0.3K	\$0.2K	\$0.1K	\$0.2K	\$0.3K	\$1.2K	\$1.8K	\$0.2K	\$24.8K	\$0.9K	\$0.1K	\$72.7K	\$0.1K	\$0.8K	\$0.8K	\$38.2K	\$22.7K	\$11.7K	\$0.1K	\$2.8K	\$1.1K	\$1.5K	\$503.2K
7/02/18	\$0.3K	\$0.2K	\$0.1K	\$0.5K	\$0.3K	\$0.4K	\$49.6K	\$78.8K	\$48.1K	\$15.9K	\$10K	\$14.8K	\$11.1K	\$42.3K	\$75.2K	\$127.8K	\$158.3K	\$161.1K	\$65.8K	\$25.2K	\$5.3K	\$4.7K	\$1.5K	\$0.8K	\$993.9K
7/03/18	\$0.2K	\$0.2K	\$0.2K	\$0.1K	\$0.2K	\$0.3K	\$32.6K	\$80K	\$31K	\$7.7K	\$13.7K	\$21.8K	\$30.7K	\$36.4K	\$94.7K	\$133.8K	\$153.7K	\$109.7K	\$57.5K	\$43.8K	\$5.3K	\$8.8K	\$35.5K	\$4K	\$885.7K
7/04/18	\$0.4K	\$0.2K	\$0.1K	\$0.1K	\$0.1K	\$0.8K	\$1.5K	\$4.5K	\$4.7K	\$5.5K	\$5.9K	\$7.2K	\$8.5K	\$8.7K	\$8K	\$5.5K	\$11.8K	\$6.8K	\$3.8K	\$4.2K	\$3.7K	\$4K	\$2.4K	\$0.8K	\$108.1K
7/05/18	\$0.4K	\$0.4K	\$0.1K	\$0K	\$0.3K	\$1.3K	\$18.5K	\$33K	\$18.8K	\$7K	\$25.8K	\$35.8K	\$34.8K	\$45.3K	\$72.6K	\$63.5K	\$60.7K	\$75.3K	\$44K	\$18.4K	\$4.8K	\$4.2K	\$7.7K	\$0.8K	\$807.8K
7/06/18	\$0.3K	\$0.2K	\$0.1K	\$0.1K	\$0.1K	\$1.2K	\$2.8K	\$11.1K	\$7.4K	\$5.8K	\$21.8K	\$28.5K	\$38.8K	\$58.8K	\$72.1K	\$81.8K	\$80K	N/A	\$28.1K	\$13.1K	\$5.7K	\$3.4K	\$3.2K	\$2K	\$480.4K
7/07/18	\$0.8K	\$0.3K	\$0.2K	\$0.1K	\$0.1K	\$0.4K	\$1K	\$2.5K	\$3.8K	\$12.8K	\$47.8K	\$68.3K	\$42.8K	\$64.5K	\$63.1K	\$75.8K	\$82.8K	\$48.1K	\$48.8K	\$27.8K	\$8.8K	\$5.2K	\$3.8K	\$1.3K	\$803.3K
7/08/18	\$0.8K	\$1.3K	\$0.1K	\$0.1K	\$0.1K	\$0.2K	\$1K	\$1.1K	\$9K	\$2.8K	\$14.8K	\$23.8K	\$33.8K	\$38.8K	\$88.8K	\$84.2K	\$88.3K	\$53.8K	\$45K	\$27K	\$18.8K	\$15.7K	\$3.8K	\$1.2K	\$527K
7/09/18	\$0.4K	\$0.1K	\$0.2K	\$0.4K	\$0.1K	\$8.3K	\$48.1K	\$78.8K	\$78.8K	\$37.7K	\$11.4K	\$22.8K	\$38.7K	\$44.4K	\$88.8K	\$118.2K	\$148.4K	\$154.8K	\$88.3K	\$33K	\$8K	\$4K	\$1.8K	\$1.1K	\$1M
7/10/18	\$2.8K	\$0.8K	\$2.6K	\$2.4K	\$2.6K	\$18.1K	\$14.7K	\$88.8K	\$108.4K	\$58.8K	\$31.7K	\$23.1K	\$35.8K	\$32.5K	\$77.3K	\$114.2K	\$185.4K	\$172.3K	\$117.8K	\$85.8K	\$18.2K	\$5.8K	\$2.5K	\$1.2K	\$1.1M
7/11/18	\$1K	\$0.8K	\$0.5K	\$0.3K	\$1K	\$7.8K	\$38.8K	\$81.8K	\$78.8K	\$44.8K	\$35.8K	\$18.4K	\$12.8K	\$28.8K	\$75.8K	\$130.8K	\$158.4K	\$188.4K	\$114K	\$83.1K	\$15.8K	\$5.3K	\$3.2K	\$1.7K	\$1.1M
7/12/18	\$1.7K	\$0.8K	\$0.5K	\$0.8K	\$1.2K	\$13.3K	\$45K	\$78K	\$88.5K	\$47.8K	\$58K	\$33.2K	\$38.5K	\$51.8K	\$127.4K	\$157.3K	\$155.8K	\$88.5K	\$34.1K	\$18.5K	\$4K	\$3.8K	\$3.5K	\$3.5K	\$1.1M
7/13/18	\$0.7K	\$0.7K	\$0.2K	\$0.8K	\$1.1K	\$1.4K	\$34.7K	\$82.4K	\$48K	\$18.8K	\$34.8K	\$88.4K	\$88.8K	\$88K	\$182.8K	\$133.8K	\$138.2K	\$111.4K	\$71.7K	\$24.8K	\$18.8K	\$7.4K	\$8.8K	\$2K	\$1M
7/14/18	\$0.8K	\$0.2K	\$0.1K	\$0.2K	\$0.1K	\$0.3K	\$1.7K	\$3.4K	\$5.7K	\$25.8K	\$37.3K	\$88.8K	\$88.8K	\$82.1K	\$87.8K	\$88.1K	\$87.8K	\$88.3K	\$88.1K	\$27.8K	\$7.8K	\$4K	\$3.1K	\$1.4K	\$724.1K
7/15/18	\$0.5K	\$0.7K	\$0.3K	\$0.1K	\$0.2K	\$0.3K	\$0.6K	\$1K	\$2.8K	\$2.4K	\$18K	\$28.1K	\$34.5K	\$25.7K	\$28.8K	\$34.4K	\$38K	\$38.3K	\$38.8K	\$28.4K	\$5.8K	\$2.3K	\$1.8K	\$1.8K	\$338.2K
7/16/18	\$0.8K	\$0.3K	\$1.3K	\$0.8K	\$0.4K	\$7.8K	\$42.8K	\$88.1K	\$108K	\$38K	\$11.8K	\$18.2K	\$28.8K	\$43.5K	\$88.7K	\$115.8K	\$188.7K	\$171.4K	\$82.5K	\$8.8K	\$4.8K	\$2.1K	\$1.1K	\$1.1K	\$1M
7/17/18	\$1.3K	\$0.7K	\$0.5K	\$0.4K	\$0.5K	\$18.5K	\$85.4K	\$85.8K	\$74.4K	\$32.3K	\$18.8K	\$11.4K	\$12.2K	\$12.8K	\$37.3K	\$177.4K	\$188.2K	\$178K	\$188.4K	\$28.7K	\$9K	\$4K	\$2.3K	\$1.2K	\$1.1M
7/18/18	\$1.8K	\$0.8K	\$0.4K	\$0.8K	\$0.3K	\$7.8K	\$38.8K	\$78.8K	\$87.8K	\$32.8K	\$11.8K	\$23.3K	\$18.4K	\$18.5K	\$38.8K	\$182.2K	\$138.4K	\$124.8K	\$88.4K	\$84.3K	\$12.8K	\$4.3K	\$1.8K	\$1.2K	\$881.3K
7/19/18	\$0.3K	\$0.8K	\$0.2K	\$0.2K	\$1.1K	\$7.5K	\$37.1K	\$85.7K	\$74.3K	\$22.8K	\$18.1K	\$28.7K	\$14.5K	\$18.4K	\$74.4K	\$130.8K	\$148.3K	\$185.8K	\$88.7K	\$31K	\$22.8K	\$5.2K	\$2.8K	\$1.8K	\$862.4K
7/20/18	\$0.4K	\$0.8K	\$0.3K	\$0.3K	\$0.4K	\$8.2K	\$28.5K	\$48.2K	\$48.4K	\$25.7K	\$82.8K	\$88.4K	\$88.1K	\$88.1K	\$84.3K	\$113.2K	\$113.8K	\$84.2K	\$78K	\$44.1K	\$28K	\$11.4K	\$2.8K	\$1.8K	\$858.5K
7/21/18	\$1.3K	\$0.8K	\$0.3K	\$0.3K	\$1.3K	\$0.2K	\$1K	\$3.1K	\$7.3K	\$33.1K	\$47.3K	\$7K	\$88.5K	\$87.7K	\$187.3K	\$82.1K	\$88.8K	\$85K	\$73.8K	\$88.5K	\$38K	\$82.2K	\$73.8K	\$31.1K	\$1M
7/22/18	\$21.1K	\$8.1K	\$0.2K	\$0.1K	\$0.2K	\$0.8K	\$0.8K	\$1.2K	\$8.2K	\$5.4K	\$11.8K	\$23.7K	\$48.8K	\$74.8K	\$88.1K	\$78.1K	\$78.8K	\$82.8K	\$43.7K	\$18.8K	\$5.8K	\$12K	\$3.1K	\$1.3K	\$817.8K
7/23/18	\$0.6K	\$0.3K	\$0.2K	\$0.1K	\$0.1K	\$8.2K	\$28.8K	\$88.7K	\$88.8K	\$31.3K	\$7.8K	\$23.5K	\$18.8K	\$24.4K	\$88K	\$188.4K	\$148.3K	\$134.8K	\$87.3K	\$81.2K	\$12.8K	\$2.7K	\$2.3K	\$0.8K	\$808K
7/24/18	\$0.5K	\$0.2K	\$0.2K	\$0.1K	\$1.2K	\$37.3K	\$118.8K	\$134.5K	\$108.1K	\$87.8K	\$18.4K	\$12.3K	\$17.1K	\$13.5K	\$28.7K	\$38.8K	\$88.7K	\$118.7K	\$84.4K	\$17K	\$5.4K	\$2.5K	\$1.8K	\$1.8K	\$882.5K
7/25/18	\$0.3K	\$0.3K	\$0.1K	\$0.1K	\$0.2K	\$8K	\$28.5K	\$43.8K	\$37.8K	\$15.2K	\$8.3K	\$11.4K	\$14.7K	\$14.5K	\$77K	\$118.4K	\$143.2K	\$143.8K	\$84.3K	\$28.2K	\$18.1K	\$2.8K	\$2.1K	\$2.8K	\$822.8K
7/26/18	\$0.8K	\$0.1K	\$0.4K	\$0.1K	\$0.3K	\$8K	\$28.3K	\$71.1K	\$88.8K	\$43.8K	\$32.3K	\$33.3K	\$31.3K	\$28.1K	\$82.8K	\$133.8K	\$188.2K	\$218.4K	\$124.2K	\$88.7K	\$14.7K	\$3.8K	\$2.2K	\$1.4K	\$1.2M
7/27/18	\$0.2K	\$0.3K	\$0.2K	\$0.1K	\$0.3K	\$5.3K	\$18.4K	\$48.7K	\$37.3K	\$18.7K	\$18.7K	\$38.7K	\$48.2K	\$87.3K	\$182.3K	\$142.8K	\$188.8K	\$181.6K	\$82.8K	\$45.1K	\$13.7K	\$18.3K	\$8.1K	\$1.8K	\$1.1M
7/28/18	\$2K	\$1.1K	\$2.7K	\$2.3K	\$1.8K	\$3.8K	\$8.5K	\$7.1K	\$5.8K	\$22.3K	\$48.1K	\$82.7K	\$7K	\$88.5K	\$74.8K	\$88.8K	\$82.7K	\$75.4K	\$71.8K	\$48.7K	\$15.2K	\$5.2K	\$2.7K	\$2.8K	\$778.8K
7/29/18	\$0.8K	\$0.3K	\$0.2K	\$0.1K	\$0.2K	\$0.2K	\$0.4K	\$1.4K	\$3.8K	\$7.8K	\$21.7K	\$88.8K	\$88.3K	\$88.3K	\$88.7K	\$88.1K	\$82.4K	\$82.5K	\$18.8K	\$5.4K	\$2.8K	\$4.2K	\$8.4K	\$8.4K	\$881.1K
7/30/18	\$0.6K	\$0.1K	\$0.3K	\$0.2K	\$0.8K	\$11.2K	\$4.4K	\$84.4K	\$48K	\$18.8K	\$18.5K	\$18.8K	\$14.3K	\$38.8K	\$81.8K	\$88.8K	\$142.8K	\$205.8K	\$188K	\$88.3K	\$23.3K	\$3.1K	\$2.2K	\$0.8K	\$1M
7/31/18	\$0.2K	\$0.1K	\$0.1K	\$0.1K	\$0.4K	\$7.1K	\$88K	\$72.2K	\$81.1K	\$24.8K	\$8.8K	\$8.7K	\$8.4K	\$8.5K	\$28.3K	\$88.7K	\$121.8K	\$128.4K	\$88.8K	\$24.2K	\$7K	\$5.1K	\$1.8K	\$1.1K	\$735.4K
8/01/18	\$0.4K	\$0.2K	\$0.4K	\$0.1K	\$0.2K	\$8.7K	\$38.8K	\$78.8K	\$88.4K	\$27.8K	\$18.4K	\$31.3K	\$28.7K	\$22.4K	\$37.8K	\$84.2K	\$137.8K	\$188.8K	\$88.8K	\$34K	\$18.8K	\$4.2K	\$3.8K	\$1.2K	\$878.2K
8/02/18	\$0.3K	\$0.2K	\$0.8K	\$0.1K	\$0.4K	\$8.4K	\$31.8K	\$88.3K	\$88.3K	\$42.8K	\$38.3K	\$87.8K	\$88.8K	\$88.8K	\$141.1K	\$208.3K	\$212.4K	\$188.2K	\$188K	\$44.8K	\$8.3K	\$2.2K	\$8.8K	\$0.8K	\$1.3M
8/03/18	\$0.3K	\$0.4K	\$0.1K	\$0.3K	\$0.2K	\$3.2K	\$7K	\$32.2K	\$38.4K	\$18.8K	\$48.4K	\$121.4K	\$81.8K	\$88.7K	\$87.8K	\$122.3K	\$188K	\$188.2K	\$37K	\$24.5K	\$22.7K	\$8.1K	\$1.2K	\$1.2K	\$1.1M

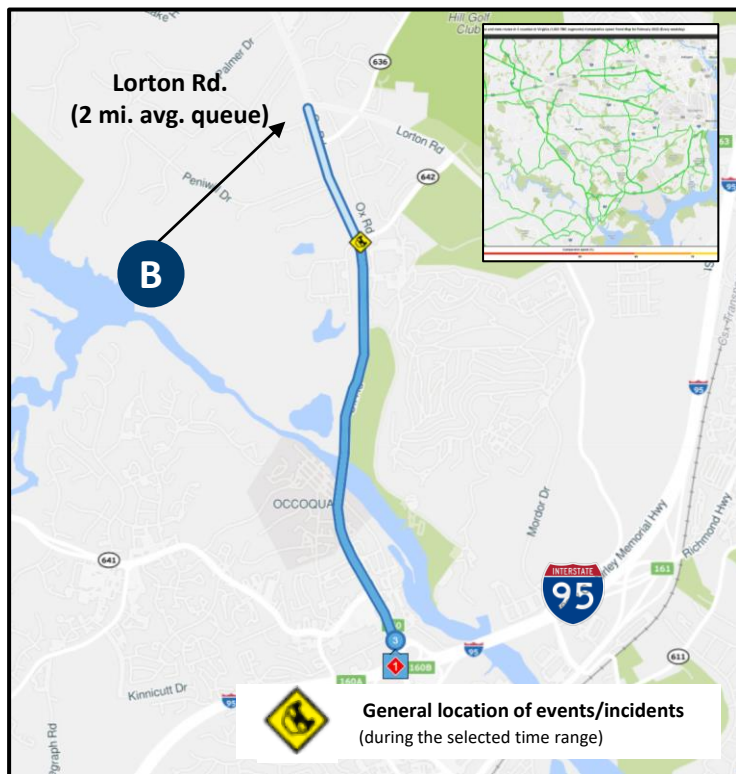
User Delay Cost



Southbound PM congestion from Lorton Rd. extends to I-95 during the afternoon peak.

Volume-related delays are caused by factors such as:

- High volume
- [Click inset map to open an animation of congestion for the reported month](#)



Monthly Congestion Performance Report

Feb. 2022

\$177,596

The Total Delay Cost
for Feb. of 2022

Click on an icon for more detail

46.7 mph

The Average **AM Peak Hour**
Speed, @ 9:15 AM - **11%**
lower than free flow speed

21.3 mph

The Average **PM Peak Hour**
Speed, @ 5:40 PM - **46%**
lower than free flow speed

A

None
No significant AM congestion
locations

B

3:00-6:30 PM
Lorton Rd. to VA-123 @ I-95

Travel Time Reliability

Feb. vs. Jan

The variation in Travel Time
Reliability **improved modestly**
between these periods.



5,881 hr

The Vehicle-hrs. of Delay
for Feb. of 2022

3.5 min

The Average **AM Peak Hour**
Travel Time. Drivers should plan
for up to **5 min** to be on time

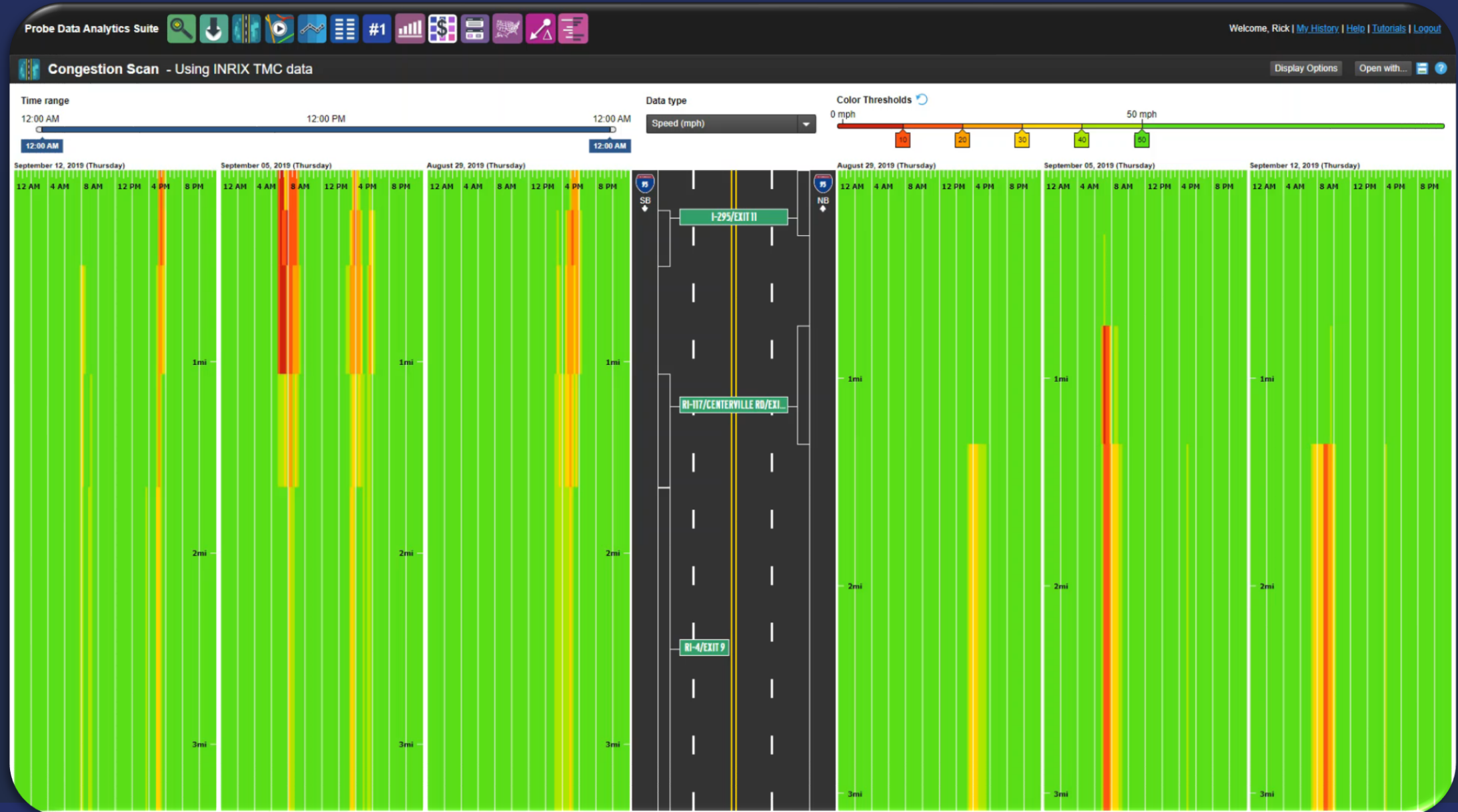
7.4 min

The Average **PM Peak Hour**
Travel Time. Drivers should plan
for up to **13 min** to be on time

3 pm - 6:30 pm

Most of the Bottlenecks along this
roadway occurred between these times

Congestion Scan (Spatial/Temporal Heat Maps)



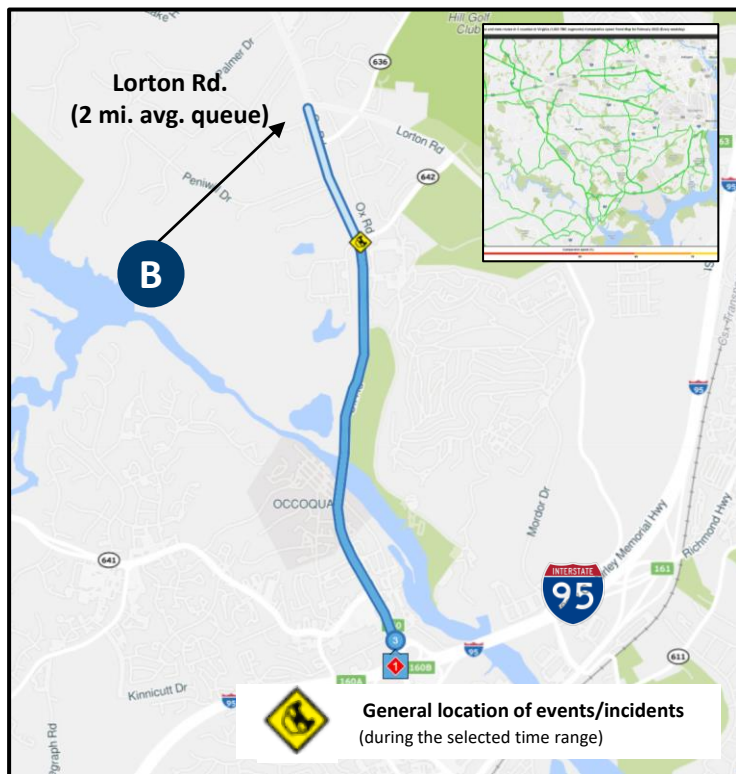
User Delay Costs



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A

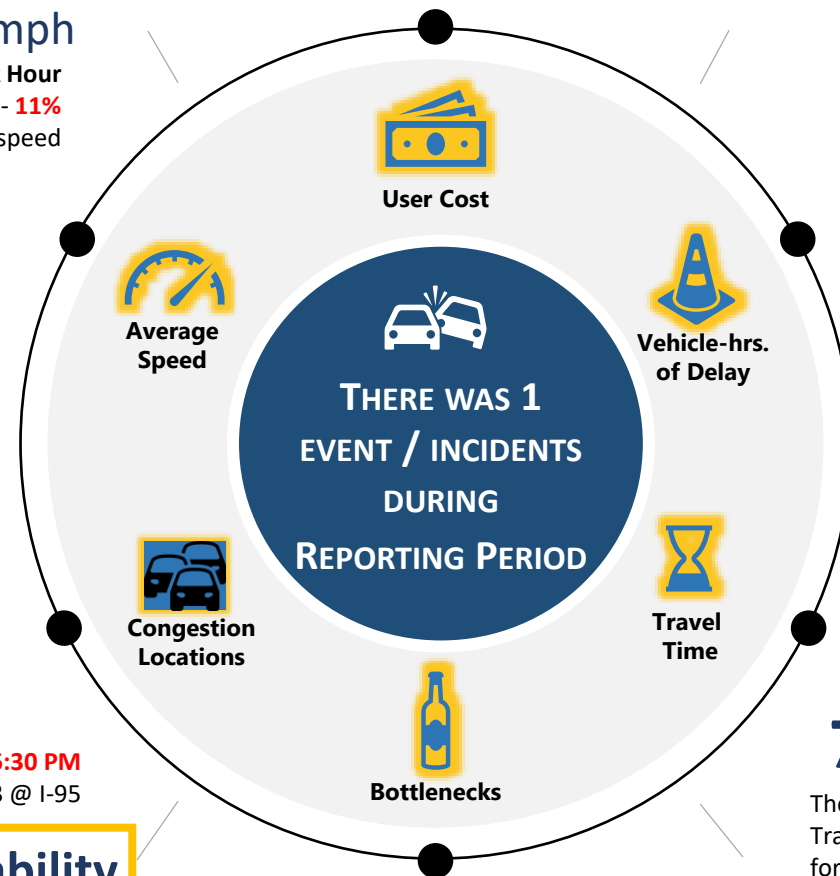
None
No significant AM congestion
locations

B

3:00-6:30 PM
Lorton Rd. to VA-123 @ I-95

Travel Time Reliability Feb. vs. Jan

The variation in Travel Time
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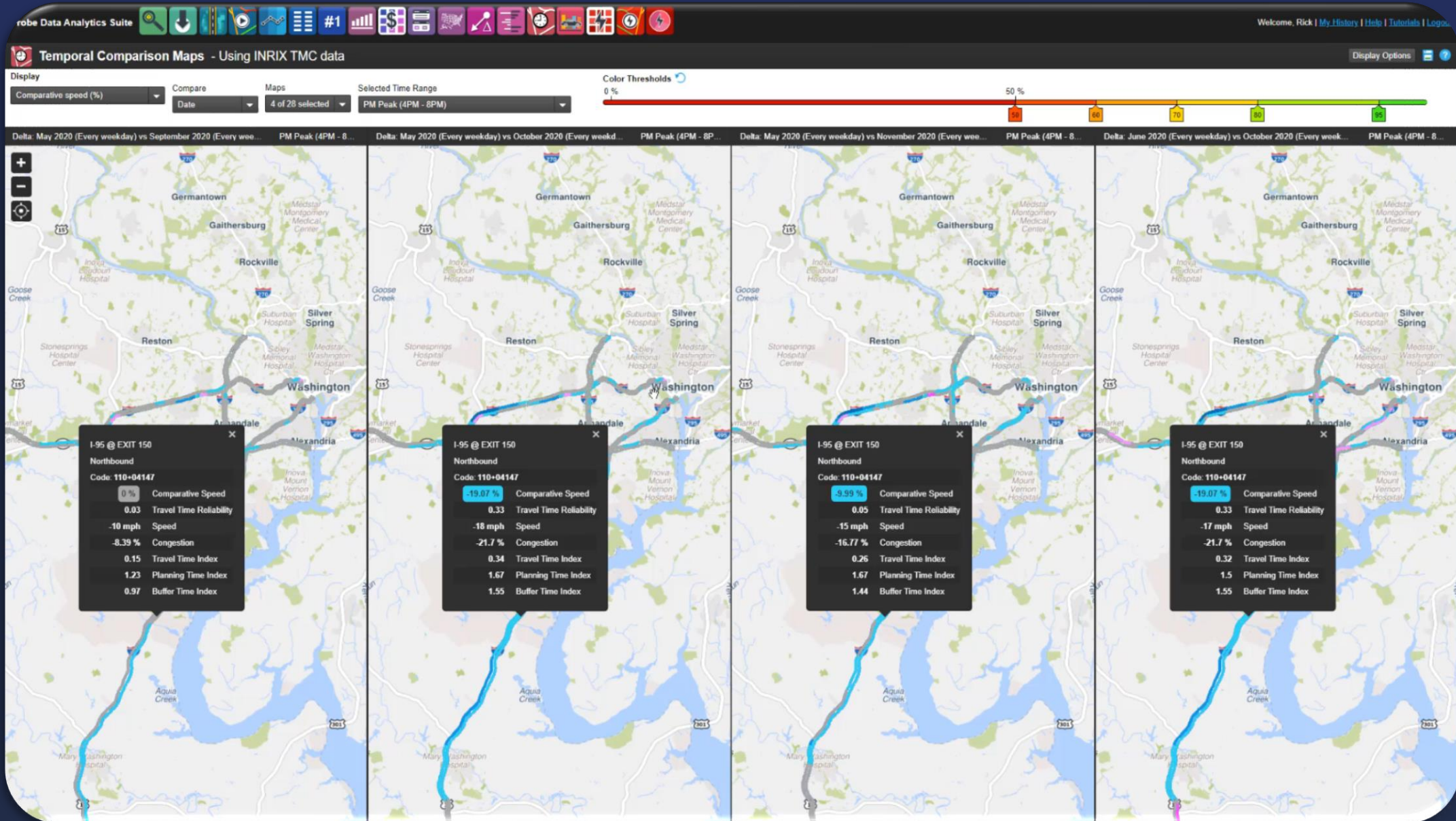
7.4 min

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Temporal Comparison Maps (Delta Maps of KPIs)



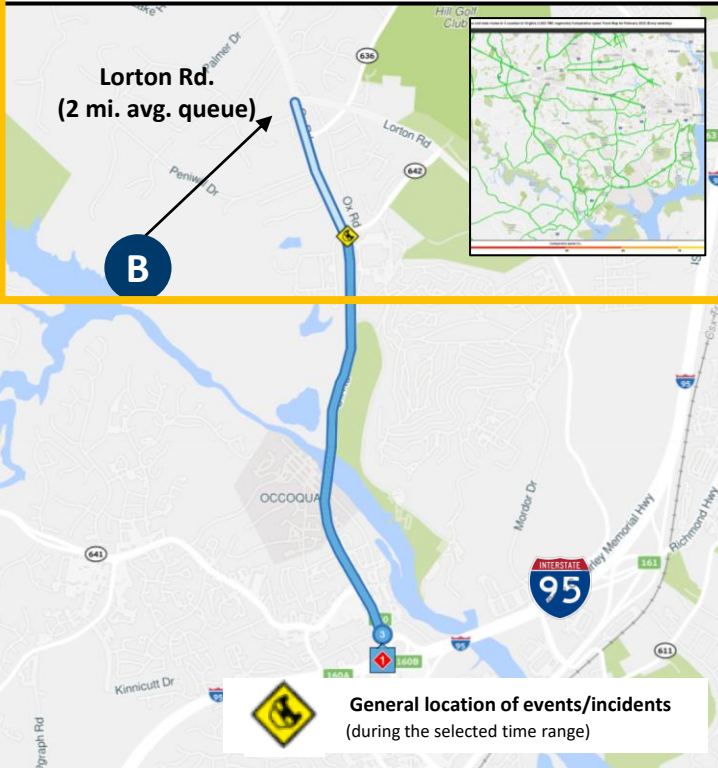
Temporal Comparison Map



Southbound PM congestion from Lorton Rd. extends to I-95 during the afternoon peak.

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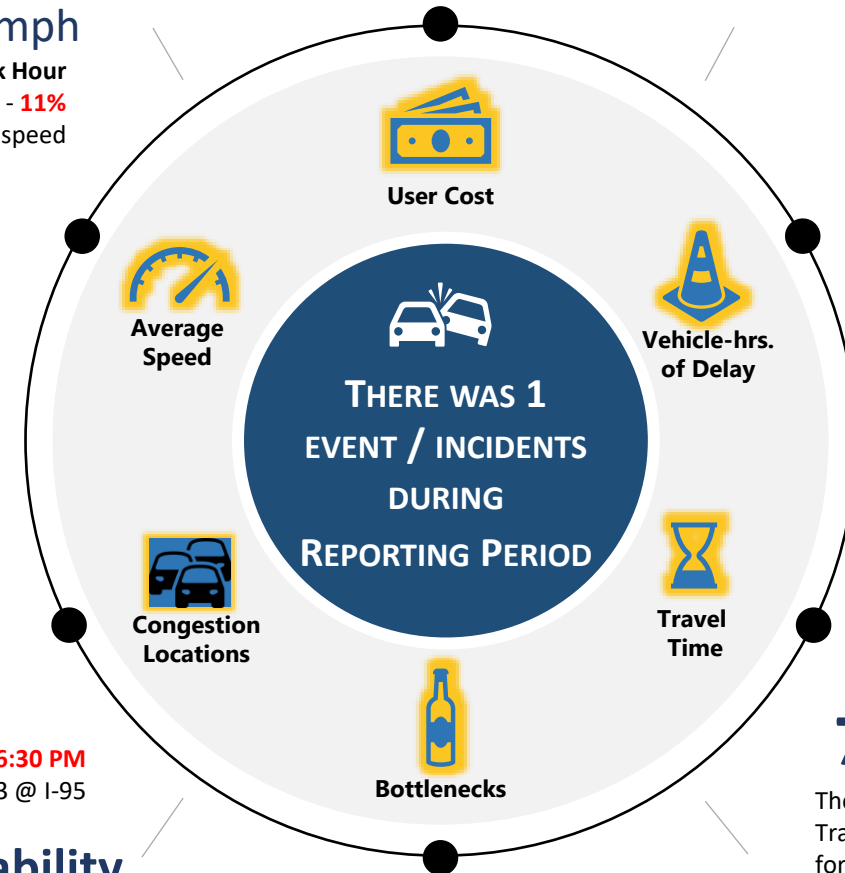
3:00-6:30 PM
Lorton Rd. to VA-123 @ I-95

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for Feb. of 2022

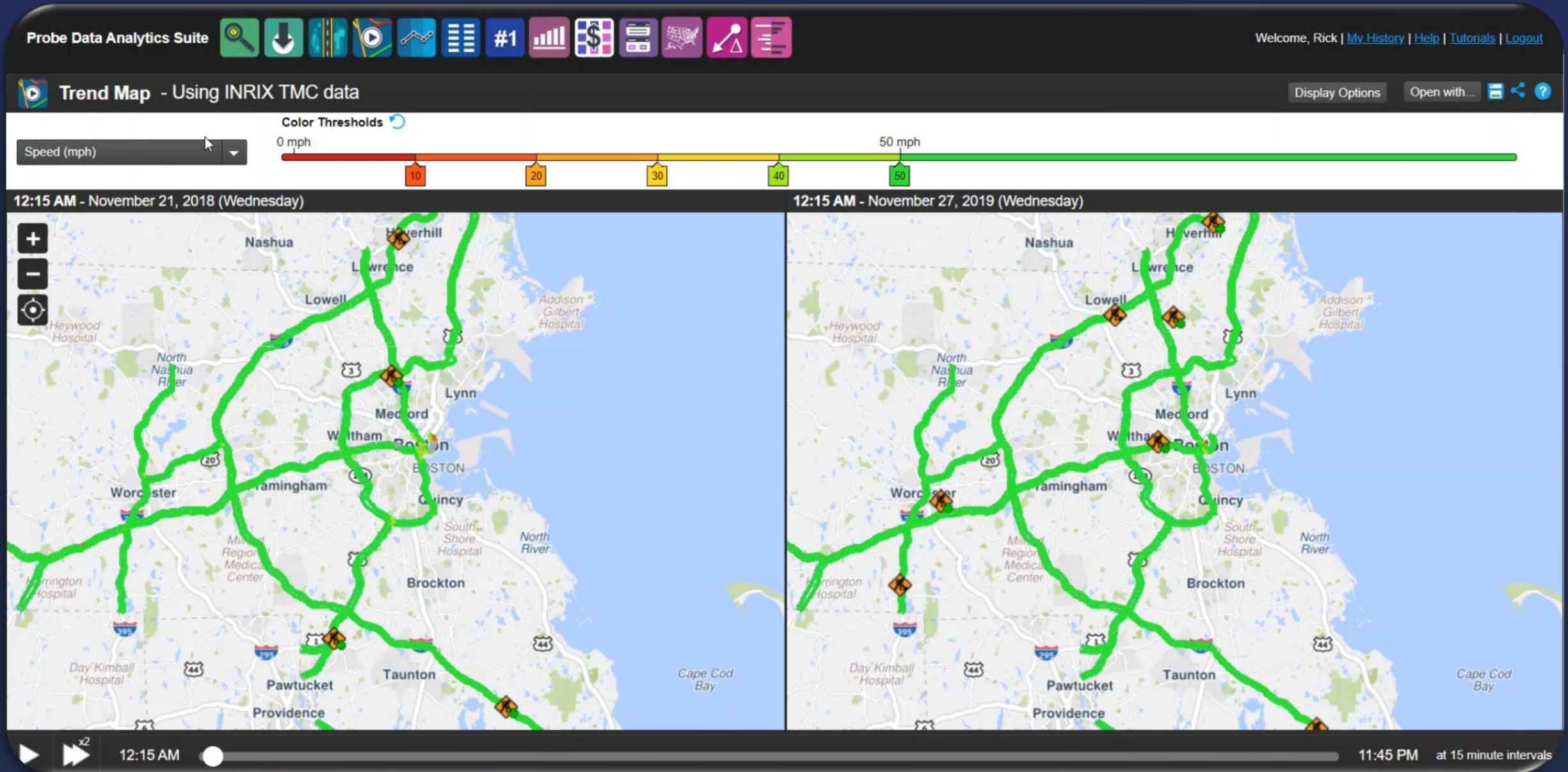
3.5 min

The Average **AM Peak Hour**
Travel Time. Drivers should plan
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7.4 min

The Average **PM Peak Hour**
Travel Time. Drivers should plan
for up to **13 min** to be on time

Trend Maps (animated maps to compare change)



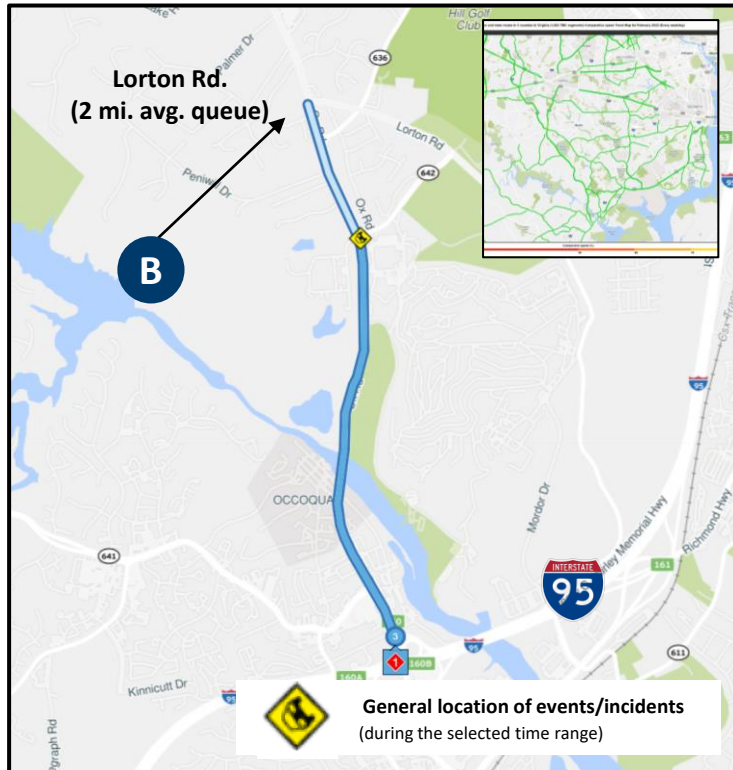
Performance Summaries



Southbound PM congestion from Lorton Rd. extends to I-95 during the afternoon peak.

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Monthly Congestion Performance Report

Feb. 2022

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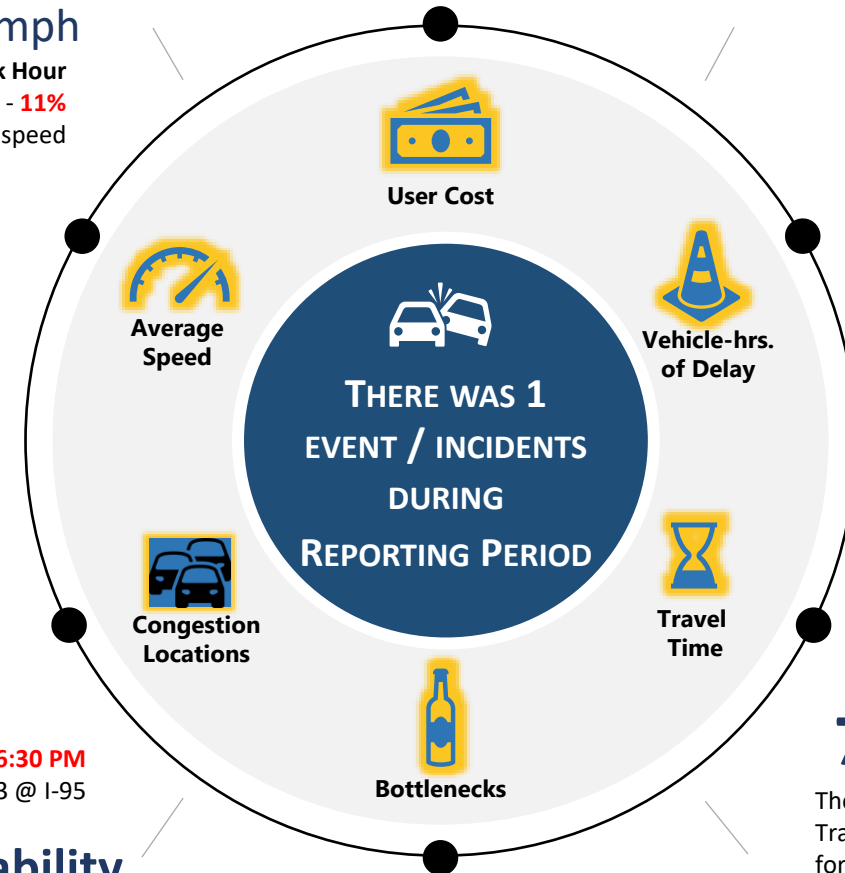
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Most of the Bottlenecks along this
roadway occurred between these times



Attendee Polling – Q3

In general, who would be the audience(s) for your performance reports? (multi-choice):

- Peers
- Management
- Executive leadership
- General public
- Elected officials



Quarterly Corridor Performance Report

Q1 2022 vs Q1 2021

Analyzed for the Northern Virginia District
Interstates Only

Key
District
Metrics

Interstates

~34.1M veh./day

~170 mi. of road

Northern VA

This quarterly report evaluates key performance indicators across the Northern Virginia District and is focused on interstates throughout the district. [Explore this Trend Map](#) to visualize how travel time reliability changed throughout the district.



Vehicle Speeds

Average Speeds

AM -5% ↓

PM -6% ↓

Weekday Peak

[Review WHERE Change Occurred](#)



Key Bottleneck

(I-95 S @ VA-123, Exit 160)

[CLICK MAP TO VIEW](#)

Total Congested Time

24 days 1 hr

749 incidents in Q1 of 2022
Contributing to this bottleneck



Reliability

Weekday Travel
Time **INCREASED**

4% ↑

During Weekday
AM and PM peak hours



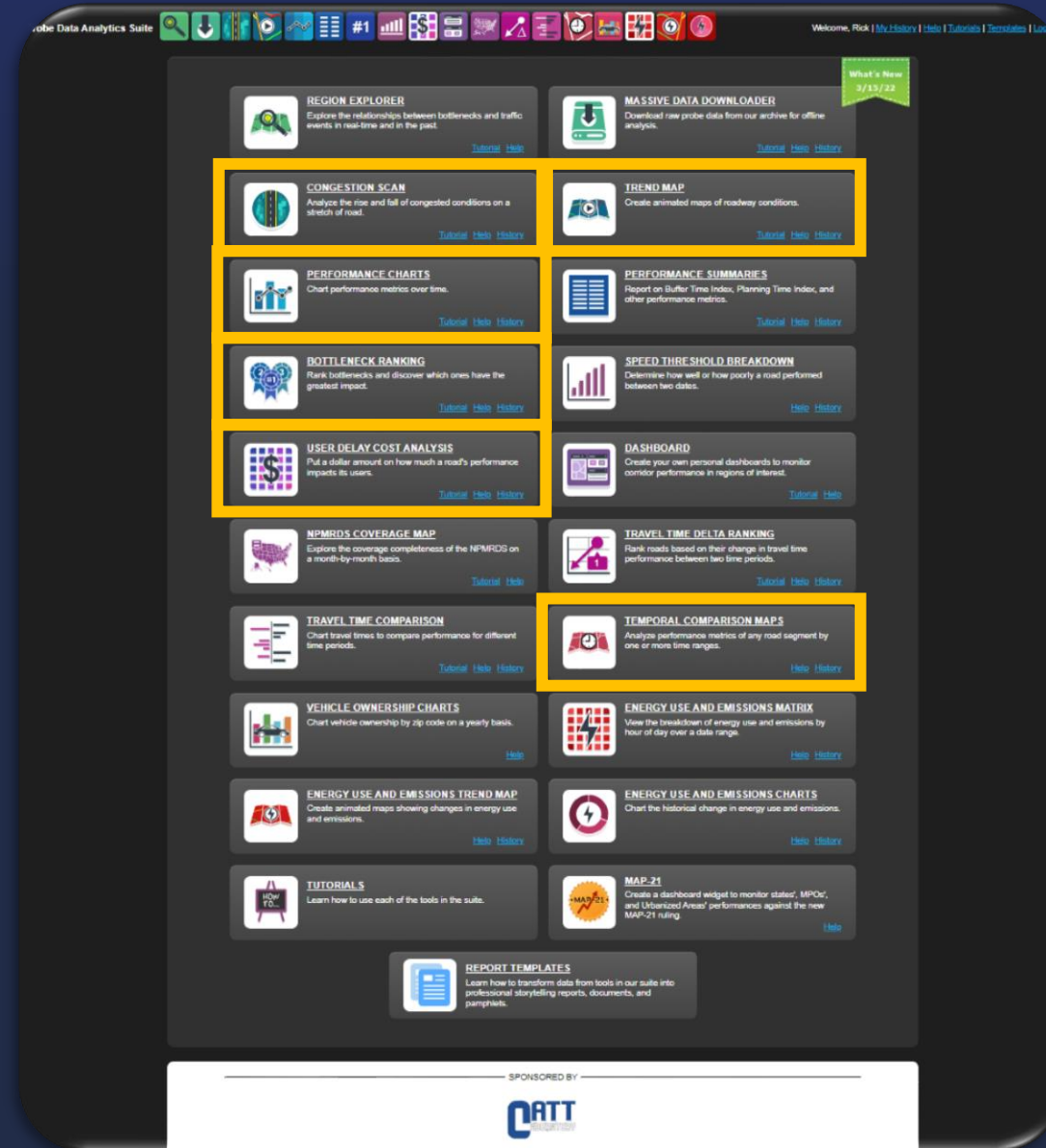
Delay Costs

Delay Costs
INCREASED

~\$9.7M ↑

[Q1 2022 UDC Report](#)
[Q1 2021 UDC Report](#)

Probe Data Analytics Suite – Share Your Story



<https://pda.ritis.org>



Quarterly Corridor Performance Report

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Average Speeds

AM -5% ↓

PM -6% ↓

Weekday Peak

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Key Bottleneck

(I-95 S @ VA-123, Exit 160)

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24 days 1 hr

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During Weekday
AM and PM peak hours



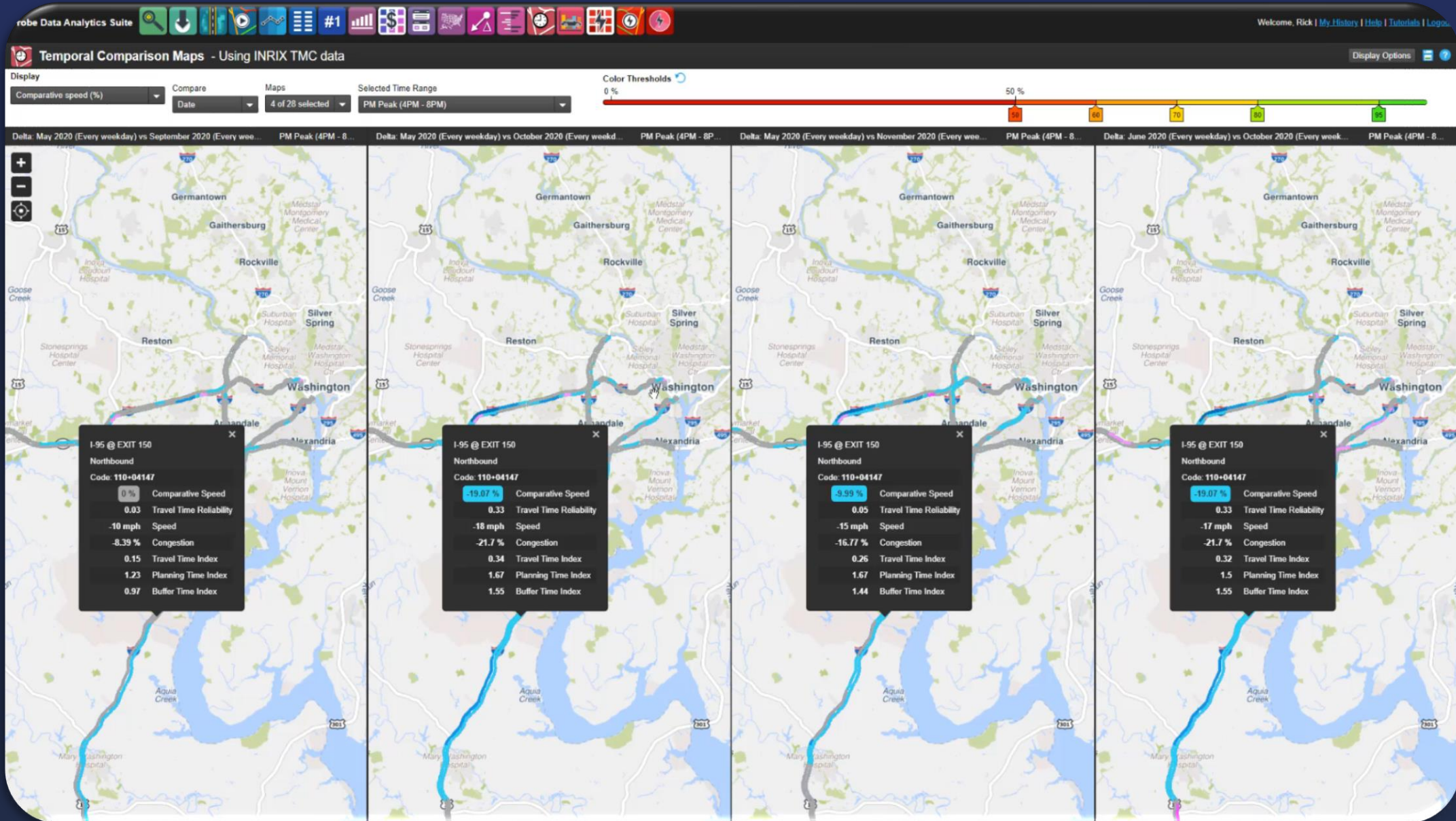
Delay Costs

Delay Costs
INCREASED

~\$9.7M ↑

[Q1 2022 UDC Report](#)
[Q1 2021 UDC Report](#)

Temporal Comparison Maps (Delta Maps of KPIs)



Temporal Comparison Maps





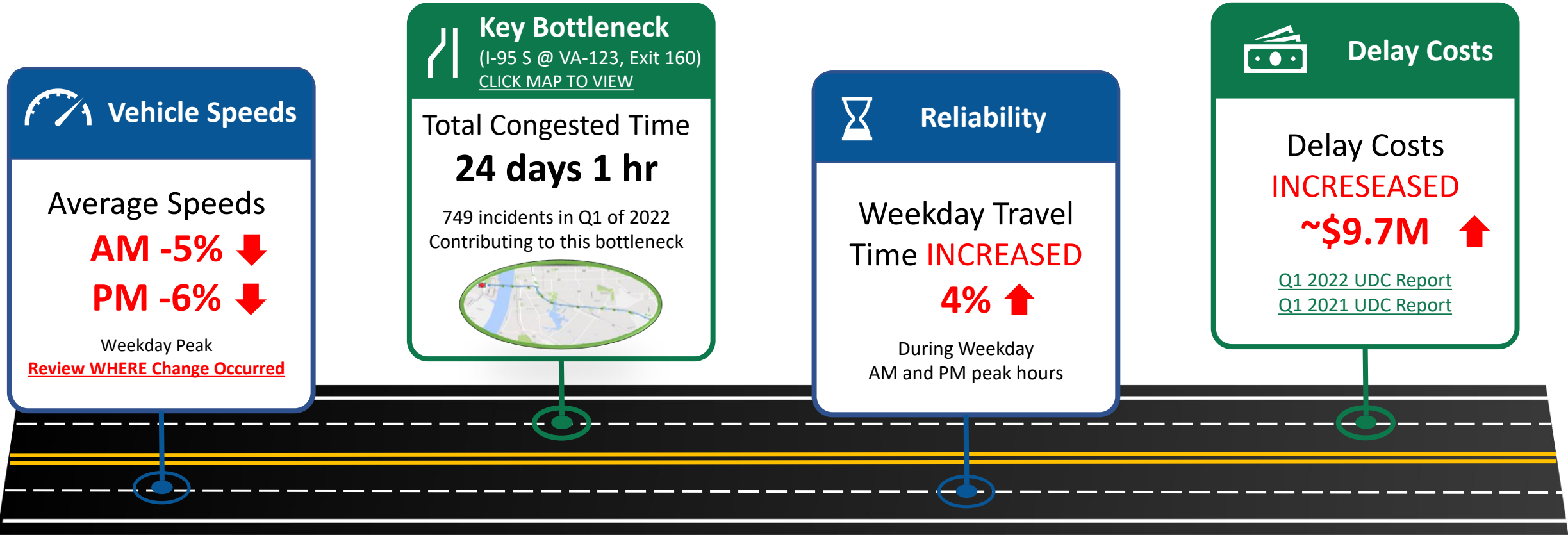
Quarterly Corridor Performance Report

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Interstates Only

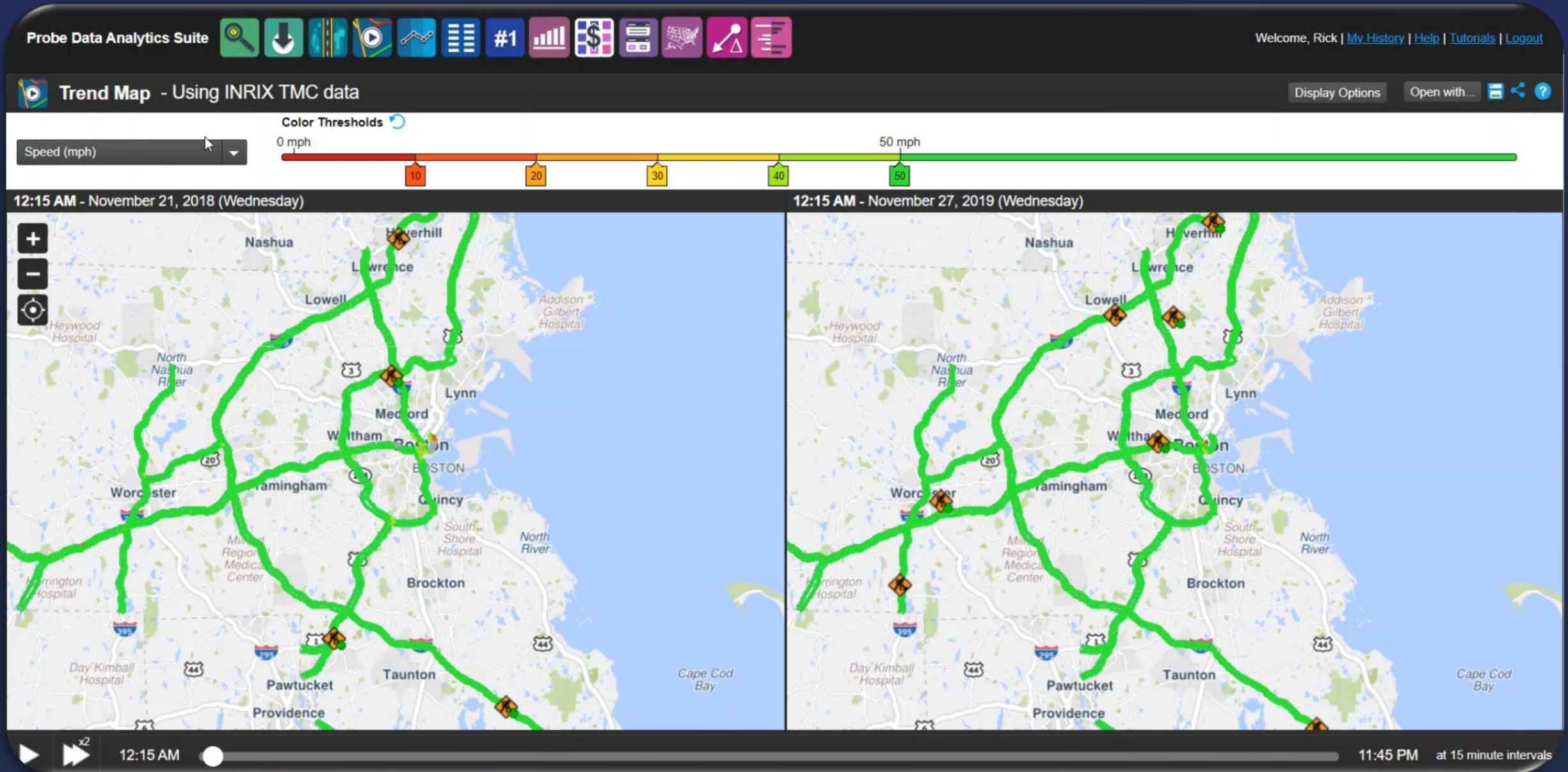
Key
District
Metrics

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~170 mi. of road	Northern VA

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Trend Maps (animated maps to compare change)



Trend Maps





Quarterly Corridor Performance Report

Q1 2022 vs Q1 2021

Analyzed for the Northern Virginia District
Interstates Only

Key
District
Metrics

Interstates

~34.1M veh./day

~170 mi. of road

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Vehicle Speeds

Average Speeds

AM -5% ↓

PM -6% ↓

Weekday Peak

[Review WHERE Change Occurred](#)



Key Bottleneck

(I-95 S @ VA-123, Exit 160)
[CLICK MAP TO VIEW](#)

Total Congested Time

24 days 1 hr

749 incidents in Q1 of 2022
Contributing to this bottleneck



Reliability

Weekday Travel
Time **INCREASED**

4% ↑

During Weekday
AM and PM peak hours



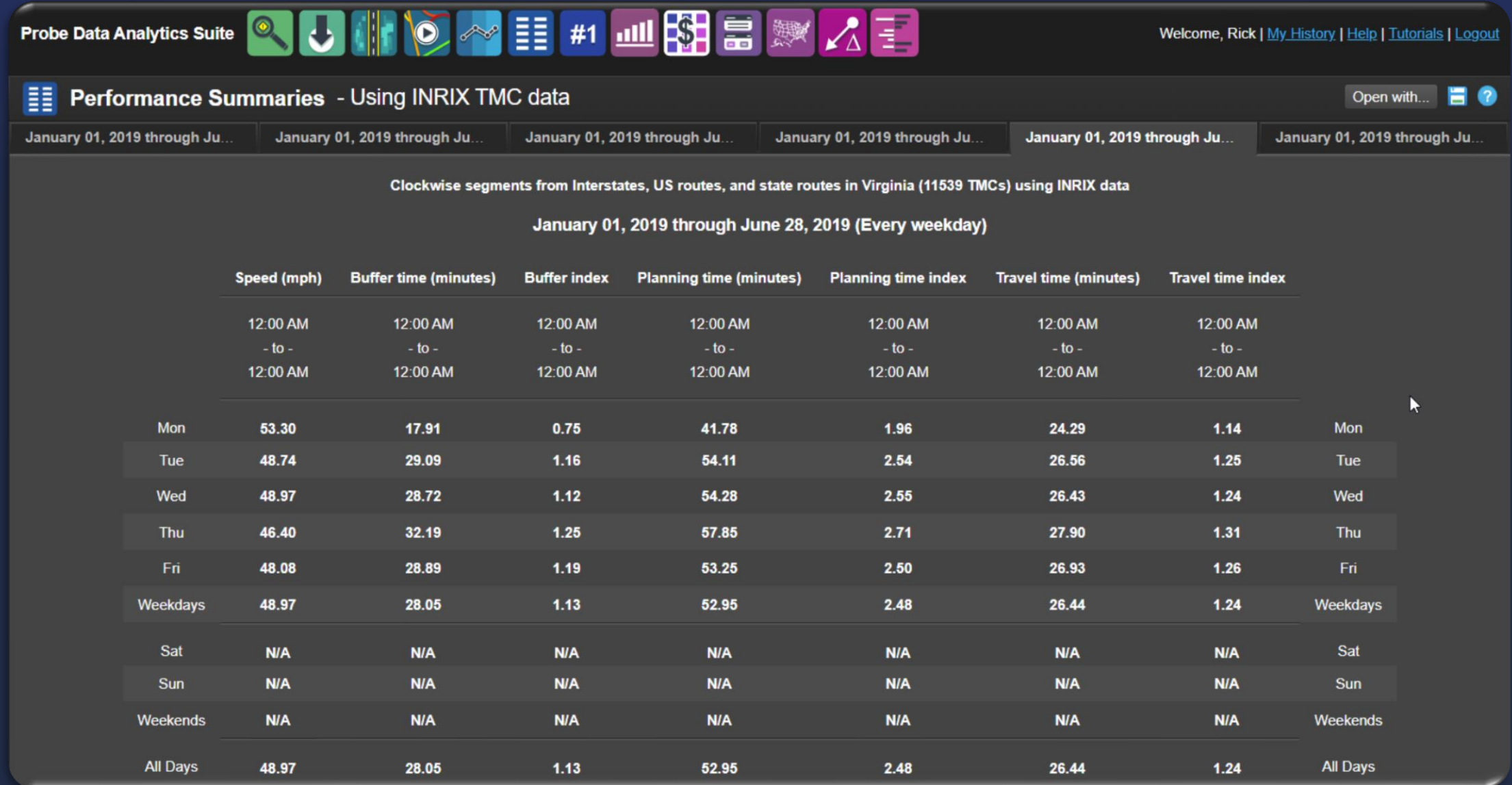
Delay Costs

Delay Costs
INCREASED

~\$9.7M ↑

[Q1 2022 UDC Report](#)
[Q1 2021 UDC Report](#)

Performance Summaries



Performance Summaries





Quarterly Corridor Performance Report

Q1 2022 vs Q1 2021

Analyzed for the Northern Virginia District
Interstates Only

Key
District
Metrics

Interstates

~34.1M veh./day

~170 mi. of road

Northern VA

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Vehicle Speeds

Average Speeds

AM -5% ↓

PM -6% ↓

Weekday Peak

[Review WHERE Change Occurred](#)



Key Bottleneck

(I-95 S @ VA-123, Exit 160)
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Reliability

Weekday Travel
Time **INCREASED**

4% ↑

During Weekday
AM and PM peak hours



Delay Costs

Delay Costs
INCREASED

~\$9.7M ↑

[Q1 2022 UDC Report](#)
[Q1 2021 UDC Report](#)

User Delay Costs (make the case for funding)



Probe Data Analytics Suite

Welcome, Rick | [My History](#) | [Help](#) | [Tutorials](#) | [Logout](#)

Tanker Crash, I-95 SB past VA-294, Prince William County, VA

Sunday, July 01, 2018 to Friday, August 31, 2018

Vehicle Type: Display: Legend:

	Total Cost																								Daily Totals	
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM		
7/01/18	\$0.8K	\$0.4K	\$0.3K	\$0.2K	\$0.1K	\$0.2K	\$0.3K	\$1.2K	\$1.8K	\$0.2K	\$24.8K	\$0.9K	\$0.1K	\$72.7K	\$0.1K	\$0.8K	\$0.8K	\$38.2K	\$22.7K	\$11.7K	\$0.1K	\$2.8K	\$1.1K	\$1.5K	\$503.2K	
7/02/18	\$0.3K	\$0.2K	\$0.1K	\$0.5K	\$0.3K	\$0.4K	\$49.6K	\$78.8K	\$48.1K	\$15.9K	\$10K	\$14.8K	\$11.1K	\$42.3K	\$75.2K	\$127.8K	\$158.3K	\$161.1K	\$65.8K	\$25.2K	\$5.3K	\$4.7K	\$1.5K	\$0.8K	\$995.9K	
7/03/18	\$0.2K	\$0.2K	\$0.2K	\$0.1K	\$0.2K	\$0.3K	\$32.6K	\$80K	\$31K	\$7.7K	\$13.7K	\$21.8K	\$30.7K	\$36.4K	\$94.7K	\$133.8K	\$153.7K	\$100.7K	\$57.5K	\$43.8K	\$5.3K	\$5.8K	\$3.5K	\$4K	\$895.7K	
7/04/18	\$0.4K	\$0.2K	\$0.1K	\$0.1K	\$0.1K	\$0.8K	\$1.5K	\$4.5K	\$4.7K	\$5.5K	\$5.9K	\$7.2K	\$8.5K	\$8.7K	\$9K	\$5.9K	\$11.8K	\$6.8K	\$3.9K	\$4.2K	\$3.7K	\$4K	\$2.4K	\$0.8K	\$108.1K	
7/05/18	\$0.4K	\$0.4K	\$0.1K	\$0K	\$0.3K	\$1.3K	\$18.5K	\$33K	\$18.8K	\$7K	\$20.5K	\$35.8K	\$34.8K	\$45.3K	\$72.6K	\$63.5K	\$60.7K	\$75.3K	\$44K	\$18.4K	\$4.9K	\$4.2K	\$7.7K	\$0.8K	\$807.8K	
7/06/18	\$0.3K	\$0.2K	\$0.1K	\$0.1K	\$0.1K	\$1.2K	\$2.5K	\$11.1K	\$7.4K	\$5.8K	\$21.8K	\$28.5K	\$38.5K	\$58.8K	\$72.1K	\$81.8K	\$80K	N/A	\$26.1K	\$13.1K	\$5.7K	\$3.4K	\$3.2K	\$2K	\$490.4K	
7/07/18	\$0.8K	\$0.3K	\$0.2K	\$0.1K	\$0.1K	\$0.4K	\$1K	\$2.5K	\$3.8K	\$12.8K	\$47.8K	\$68.3K	\$42.8K	\$64.5K	\$63.1K	\$75.8K	\$62.8K	\$46.1K	\$49.8K	\$27.8K	\$9.8K	\$5.2K	\$3.8K	\$1.3K	\$903.3K	
7/08/18	\$0.8K	\$1.3K	\$0.1K	\$0.1K	\$0.1K	\$0.2K	\$1K	\$1.1K	\$9K	\$2.8K	\$14.8K	\$23.8K	\$33.3K	\$38.8K	\$68.4K	\$84.2K	\$86.3K	\$46.1K	\$49.8K	\$27.8K	\$9.8K	\$15.8K	\$15.7K	\$3.5K	\$1.2K	\$527K
7/09/18	\$0.4K	\$0.1K	\$0.2K	\$0.4K	\$0.1K	\$8.3K	\$48.1K	\$78.8K	\$78.8K	\$37.7K	\$11.4K	\$22.5K	\$39.7K	\$44.4K	\$88.8K	\$118.2K	\$148.4K	\$154.8K	\$88.3K	\$33K	\$8K	\$4K	\$1.8K	\$1.1K	\$1M	
7/10/18	\$2.8K	\$0.8K	\$2.6K	\$2.4K	\$2.6K	\$18.1K	\$14.7K	\$88.8K	\$108.4K	\$58.8K	\$31.7K	\$23.1K	\$35.8K	\$32.5K	\$77.3K	\$114.2K	\$185.4K	\$172.3K	\$117.8K	\$85.5K	\$10.2K	\$5.5K	\$2.5K	\$1.2K	\$1.1M	
7/11/18	\$1K	\$0.8K	\$0.5K	\$0.3K	\$1K	\$7.8K	\$38.8K	\$81.8K	\$78.8K	\$44.8K	\$35.8K	\$16.4K	\$12.8K	\$28.8K	\$75.8K	\$130.8K	\$158.4K	\$180.4K	\$114K	\$83.1K	\$15.5K	\$5.3K	\$3.2K	\$1.7K	\$1.1M	
7/12/18	\$1.7K	\$0.8K	\$0.5K	\$0.8K	\$1.2K	\$13.3K	\$45K	\$78K	\$68.4K	\$47.8K	\$58K	\$33.2K	\$30.5K	\$51.8K	\$62.4K	\$127.4K	\$157.3K	\$155.8K	\$88.5K	\$34.1K	\$10.5K	\$4K	\$3.8K	\$3.5K	\$1.1M	
7/13/18	\$0.7K	\$0.7K	\$0.2K	\$0.8K	\$1.1K	\$1.4K	\$34.7K	\$52.4K	\$48K	\$18.8K	\$34.8K	\$88.4K	\$88K	\$102.2K	\$133.8K	\$138.2K	\$111.4K	\$71.7K	\$24.8K	\$15.8K	\$7.4K	\$6.5K	\$2K	\$1M		
7/14/18	\$0.8K	\$0.2K	\$0.1K	\$0.2K	\$0.1K	\$0.3K	\$1.7K	\$3.4K	\$5.7K	\$20.8K	\$37.3K	\$68.5K	\$88.8K	\$82.1K	\$87.8K	\$85.1K	\$87.8K	\$85.3K	\$88.1K	\$27.8K	\$7.8K	\$4K	\$3.1K	\$1.4K	\$724.1K	
7/15/18	\$0.5K	\$0.7K	\$0.3K	\$0.1K	\$0.2K	\$0.3K	\$0.6K	\$1K	\$2.8K	\$2.4K	\$19K	\$28.1K	\$34.5K	\$25.7K	\$38.5K	\$34.4K	\$38K	\$38.3K	\$38.5K	\$20.4K	\$5.8K	\$2.3K	\$1.8K	\$1.8K	\$338.2K	
7/16/18	\$0.8K	\$0.3K	\$1.3K	\$0.8K	\$0.4K	\$7.8K	\$42.8K	\$88.1K	\$108K	\$38K	\$11.8K	\$18.2K	\$28.5K	\$43.5K	\$58.7K	\$115.5K	\$158.7K	\$171.4K	\$82.5K	\$28.7K	\$8.8K	\$4.5K	\$2.1K	\$1.1K	\$1M	
7/17/18	\$1.3K	\$0.7K	\$0.5K	\$0.4K	\$0.5K	\$18.5K	\$85.4K	\$85.8K	\$74.4K	\$32.3K	\$18.8K	\$11.4K	\$12.2K	\$12.8K	\$37.3K	\$177.4K	\$188.2K	\$175K	\$180.4K	\$25.7K	\$9K	\$4K	\$2.3K	\$1.2K	\$1.1M	
7/18/18	\$1.8K	\$0.8K	\$0.4K	\$0.8K	\$0.3K	\$7.8K	\$38.8K	\$78.8K	\$87.8K	\$32.8K	\$11.8K	\$23.3K	\$16.4K	\$16.5K	\$38.8K	\$102.2K	\$138.4K	\$124.8K	\$88.4K	\$84.3K	\$12.8K	\$4.3K	\$1.8K	\$1.2K	\$881.3K	
7/19/18	\$0.3K	\$0.8K	\$0.2K	\$0.2K	\$1.1K	\$7.5K	\$37.1K	\$85.7K	\$74.3K	\$22.8K	\$16.1K	\$28.7K	\$14.5K	\$16.4K	\$74.4K	\$130.8K	\$148.3K	\$185.8K	\$88.7K	\$31K	\$22.8K	\$5.2K	\$3.8K	\$1.8K	\$862.4K	
7/20/18	\$0.4K	\$0.8K	\$0.3K	\$0.3K	\$0.4K	\$8.2K	\$20.5K	\$48.2K	\$48.4K	\$25.7K	\$52.8K	\$85.4K	\$85.1K	\$88.1K	\$84.3K	\$113.2K	\$113.8K	\$84.2K	\$78K	\$44.1K	\$28K	\$11.4K	\$2.8K	\$1.8K	\$858.5K	
7/21/18	\$1.3K	\$0.8K	\$0.3K	\$0.3K	\$1.3K	\$0.2K	\$1K	\$3.1K	\$7.3K	\$33.1K	\$47.3K	\$7K	\$88.5K	\$87.7K	\$107.3K	\$85.1K	\$88.8K	\$85K	\$73.8K	\$88.5K	\$30K	\$23.2K	\$7.5K	\$3.1K	\$1M	
7/22/18	\$21.1K	\$5.1K	\$0.2K	\$0.1K	\$0.2K	\$0.8K	\$0.8K	\$1.2K	\$8.2K	\$5.4K	\$11.8K	\$23.7K	\$48.8K	\$74.8K	\$88.1K	\$78.1K	\$78.8K	\$82.8K	\$43.7K	\$18.8K	\$5.8K	\$12K	\$3.1K	\$1.3K	\$817.8K	
7/23/18	\$0.6K	\$0.3K	\$0.2K	\$0.1K	\$0.1K	\$8.2K	\$28.8K	\$88.7K	\$88.8K	\$31.3K	\$7.8K	\$23.5K	\$19.8K	\$24.4K	\$88K	\$108.4K	\$148.3K	\$134.8K	\$87.3K	\$81.2K	\$12.8K	\$2.7K	\$2.3K	\$0.8K	\$808K	
7/24/18	\$0.5K	\$0.2K	\$0.2K	\$0.1K	\$1.2K	\$37.3K	\$118.8K	\$134.5K	\$108.1K	\$87.8K	\$19.4K	\$12.3K	\$17.1K	\$13.5K	\$20.7K	\$38.8K	\$88.7K	\$110.7K	\$84.4K	\$17K	\$5.4K	\$2.5K	\$1.5K	\$1.8K	\$882.5K	
7/25/18	\$0.3K	\$0.3K	\$0.1K	\$0.1K	\$0.2K	\$8K	\$28.5K	\$43.8K	\$37.8K	\$15.2K	\$5.3K	\$11.4K	\$14.7K	\$14.5K	\$77K	\$115.4K	\$143.2K	\$143.8K	\$84.3K	\$28.2K	\$10.1K	\$2.8K	\$2.1K	\$2.8K	\$822.8K	
7/26/18	\$0.8K	\$0.1K	\$0.4K	\$0.1K	\$0.3K	\$8K	\$28.3K	\$71.1K	\$88.8K	\$43.8K	\$32.3K	\$33.3K	\$31.3K	\$28.1K	\$82.8K	\$133.8K	\$188.2K	\$218.4K	\$124.2K	\$88.7K	\$14.7K	\$3.8K	\$2.2K	\$1.4K	\$1.2M	
7/27/18	\$0.2K	\$0.3K	\$0.2K	\$0.1K	\$0.3K	\$5.3K	\$18.4K	\$48.7K	\$37.3K	\$16.7K	\$30.7K	\$48.2K	\$84.2K	\$87.3K	\$102.3K	\$142.8K	\$188.8K	\$151.6K	\$82.8K	\$45.1K	\$13.7K	\$10.3K	\$6.1K	\$1.8K	\$1.1M	
7/28/18	\$2K	\$1.1K	\$2.7K	\$2.3K	\$1.8K	\$3.5K	\$5.5K	\$7.1K	\$5.8K	\$22.3K	\$48.1K	\$52.7K	\$7K	\$85.5K	\$74.5K	\$88.8K	\$82.7K	\$78.4K	\$71.8K	\$40.7K	\$15.2K	\$5.2K	\$2.7K	\$2.8K	\$778.8K	
7/29/18	\$0.8K	\$0.3K	\$0.2K	\$0.1K	\$0.2K	\$0.2K	\$0.4K	\$1.4K	\$3.8K	\$7.8K	\$21.7K	\$88.5K	\$88.3K	\$88.5K	\$88.7K	\$88.1K	\$82.4K	\$82.5K	\$10.8K	\$5.4K	\$2.8K	\$4.2K	\$6.4K	\$8.4K	\$881.1K	
7/30/18	\$0.6K	\$0.1K	\$0.3K	\$0.2K	\$0.5K	\$11.2K	\$44.4K	\$84.4K	\$48K	\$18.8K	\$10.5K	\$15.8K	\$14.3K	\$38.8K	\$81.8K	\$88.8K	\$142.8K	\$205.8K	\$188K	\$88.3K	\$23.3K	\$3.1K	\$2.2K	\$0.8K	\$1M	
7/31/18	\$0.2K	\$0.1K	\$0.1K	\$0.1K	\$0.4K	\$7.1K	\$48K	\$72.2K	\$81.1K	\$24.8K	\$5.8K	\$8.7K	\$8.4K	\$8.5K	\$23.3K	\$88.7K	\$121.8K	\$125.4K	\$88.8K	\$24.2K	\$7K	\$5.1K	\$1.8K	\$1.1K	\$735.4K	
8/01/18	\$0.4K	\$0.2K	\$0.4K	\$0.1K	\$0.2K	\$8.7K	\$38.8K	\$78.8K	\$85.4K	\$27.8K	\$15.4K	\$31.3K	\$28.7K	\$22.4K	\$37.8K	\$84.2K	\$137.8K	\$188.8K	\$88.8K	\$34K	\$10.8K	\$4.2K	\$3.8K	\$1.2K	\$878.2K	
8/02/18	\$0.3K	\$0.2K	\$0.5K	\$0.1K	\$0.4K	\$8.4K	\$31.8K	\$88.3K	\$88.3K	\$42.8K	\$38.3K	\$87.8K	\$88.8K	\$88.8K	\$141.1K	\$208.3K	\$212.4K	\$188.2K	\$188K	\$44.8K	\$8.3K	\$2.2K	\$0.8K	\$1.8K	\$1.3M	
8/03/18	\$0.3K	\$0.4K	\$0.1K	\$0.3K	\$0.2K	\$3.2K	\$7K	\$32.2K	\$38.4K	\$18.8K	\$48.4K	\$121.4K	\$81.8K	\$88.7K	\$87.8K	\$122.3K	\$188K	\$188.2K	\$37K	\$24.5K	\$22.7K	\$5.1K	\$1.2K	\$1.1K	\$1.1M	

User Delay Costs





Quarterly Corridor Performance Report

Q1 2022 vs Q1 2021

Analyzed for the Northern Virginia District
Interstates Only

Key
District
Metrics

Interstates

~34.1M veh./day

~170 mi. of road

Northern VA

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Vehicle Speeds

Average Speeds

AM -5% ↓

PM -6% ↓

Weekday Peak

[Review WHERE Change Occurred](#)



Key Bottleneck

(I-95 S @ VA-123, Exit 160)
[CLICK MAP TO VIEW](#)

Total Congested Time

24 days 1 hr

749 incidents in Q1 of 2022
Contributing to this bottleneck



Reliability

Weekday Travel
Time **INCREASED**

4% ↑

During Weekday
AM and PM peak hours



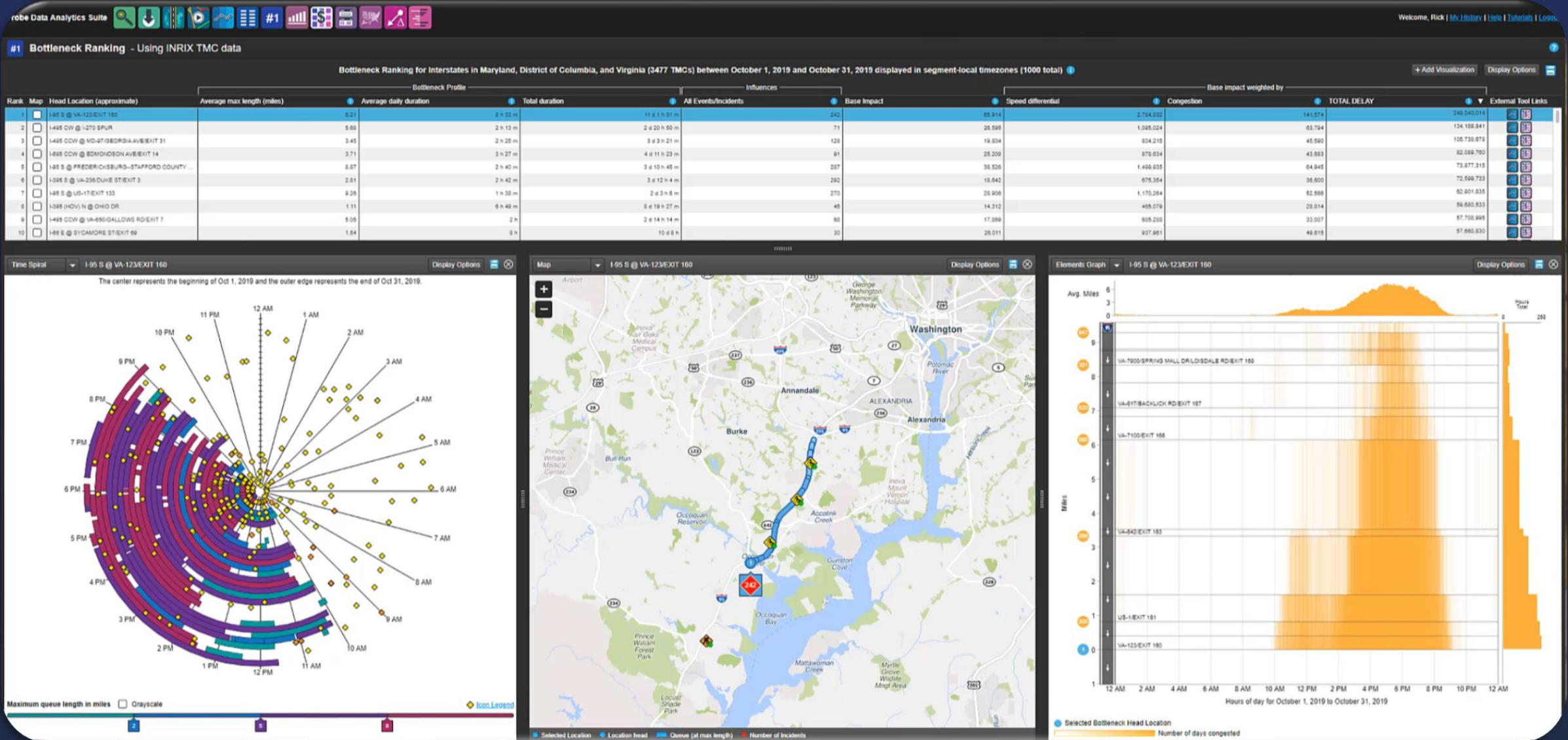
Delay Costs

Delay Costs
INCREASED

~\$9.7M ↑

[Q1 2022 UDC Report](#)
[Q1 2021 UDC Report](#)

Bottleneck Ranking (project prioritization)



Bottleneck Ranking Report





Quarterly Corridor Performance Report

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Key Bottleneck

(I-95 S @ VA-123, Exit 160)

[CLICK MAP TO VIEW](#)

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Reliability

Weekday Travel
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4% ↑

During Weekday
AM and PM peak hours



Delay Costs

Delay Costs
INCREASED

~\$9.7M ↑

[Q1 2022 UDC Report](#)
[Q1 2021 UDC Report](#)

Attendee Polling – Q4

Now that you've seen how to create a performance report, would you consider sharing your use case at a future RITIS User Group Web Meeting?

- Yes
- No
- Not sure – Please reach out to me to discuss

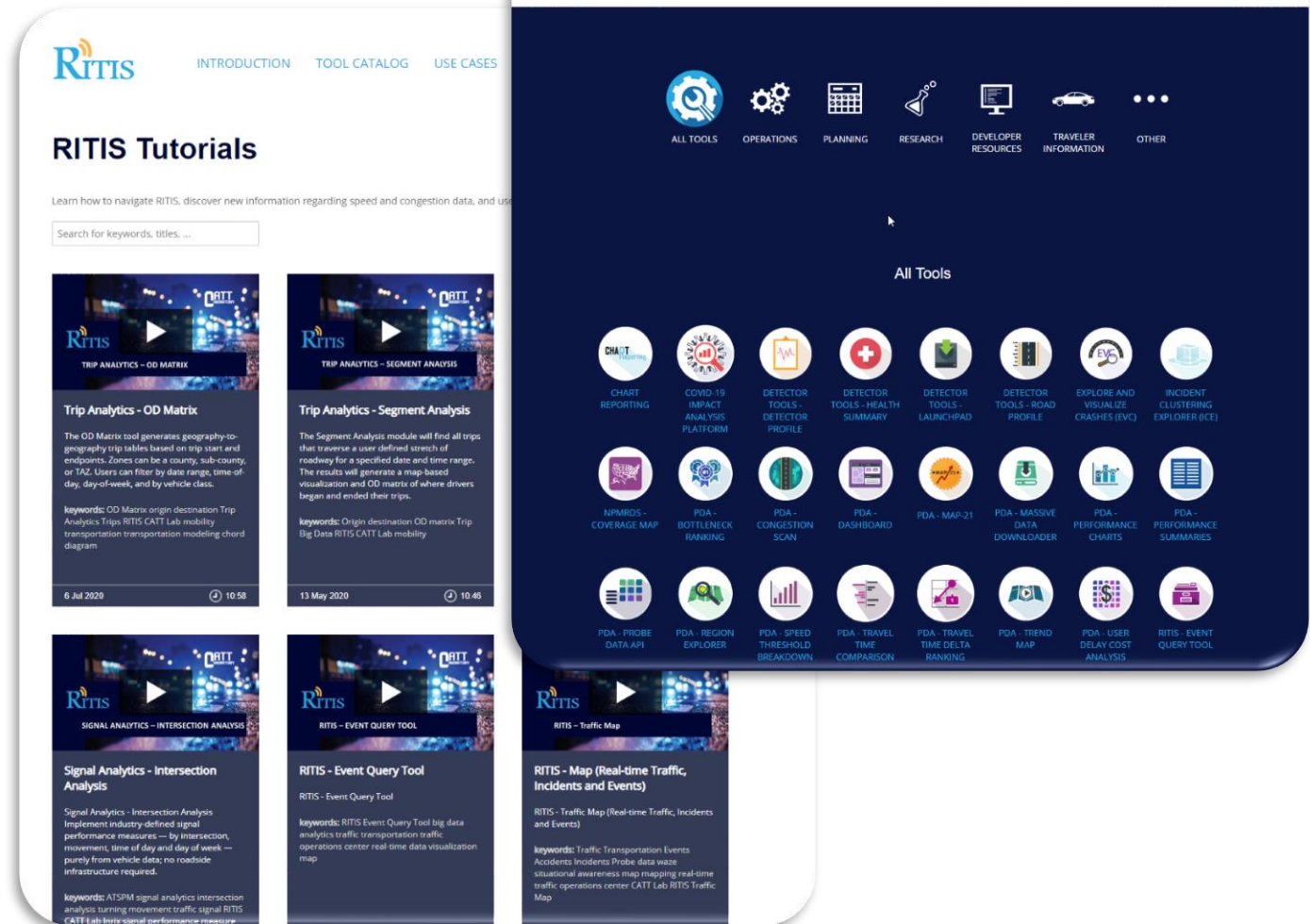
Q & A



REGIONAL INTEGRATED TRANSPORTATION INFORMATION SYSTEM

RITIS/Probe Data Analytics Resources

- RITIS Tool Catalog
 - <https://ritis.org/tools>
- RITIS Report Templates
 - <https://learn.ritis.org/reports>
- RITIS Tutorials
 - <https://ritis.org/tutorials>
- Eastern Transportation Coalition
 - [Previous User Group Meetings](#)



Attendee Polling – Q5

Please give the CATT Lab a score of 1 to 5 for the value of providing these report templates and this workshop as resources for your agency

- 1 - Little value
- 2 - Some value
- 3 - Moderately valuable
- 4 - Valuable
- 5 - Extremely valuable

Attendee Polling – Q6

We would like to develop future 1-hour training sessions for RITIS Tools/Templates (4x per year).

Would you be interested in attending?

- Yes
- No
- I don't know

Questions?



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PDA Suite Tech Support

pda-support@ritis.org



Thank you!



— **THE EASTERN
TRANSPORTATION
COALITION**

CONNECTING FOR SOLUTIONS

