CATT LABORATORY

RITIS Workshop

Building a Corridor Performance Summary Report

March 29, 2022

In collaboration with THE EASTERN TRANSPORTATION COALITION

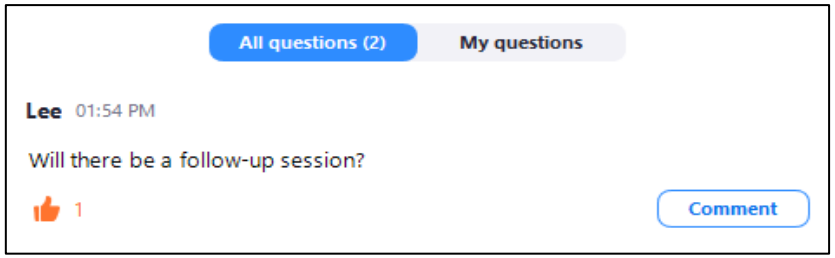
Welcome!

- 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

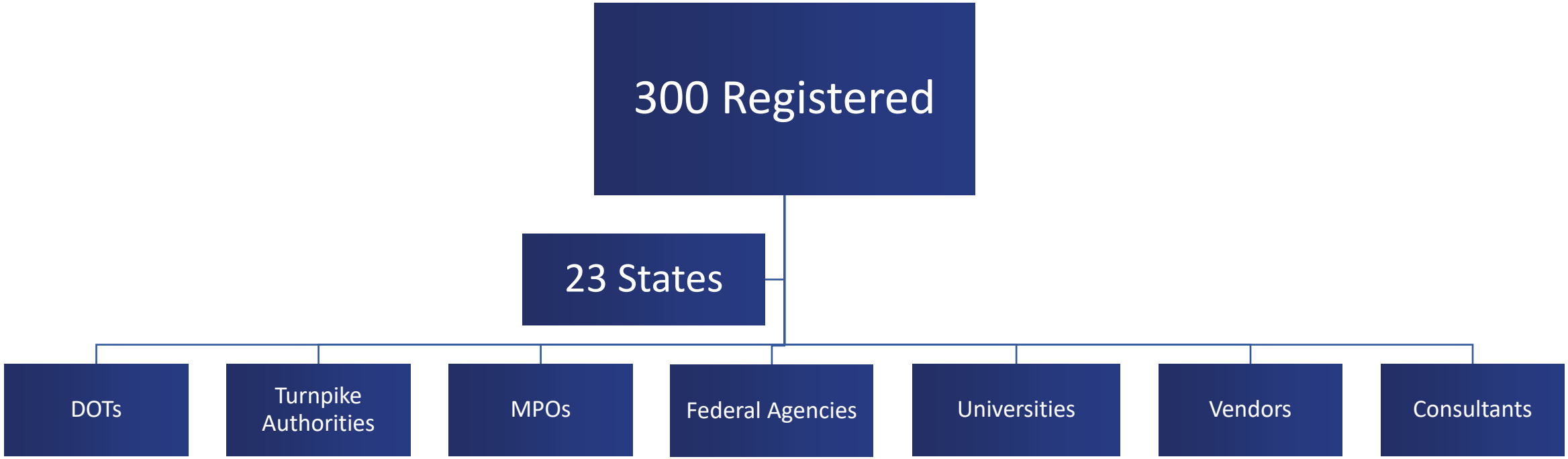
Asking Questions in the Q&A Box

- **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

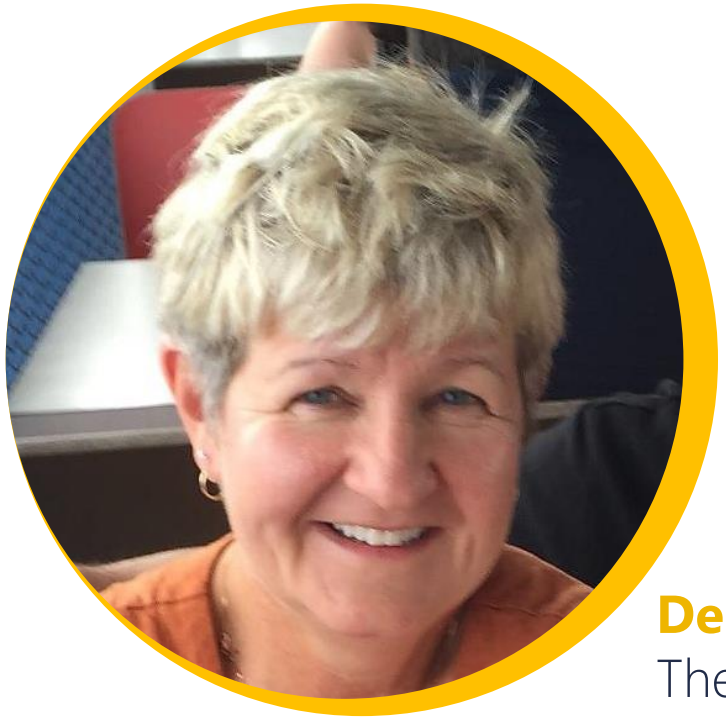


Today's Speakers

John Allen
UMD CATT Lab
Faculty Assistant, Outreach & Education

Rick Ayers
UMD CATT Lab
Public Sector Advocate

Welcome from the Coalition



THE EASTERN TRANSPORTATION COALITION

CONNECTING FOR SOLUTIONS

Denise Markow
The Eastern Transportation Coalition
TSMO Director

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**

THE EASTERN TRANSPORTATION COALITION
CONNECTING FOR SOLUTIONS

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

TETC | March 29, 2022

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

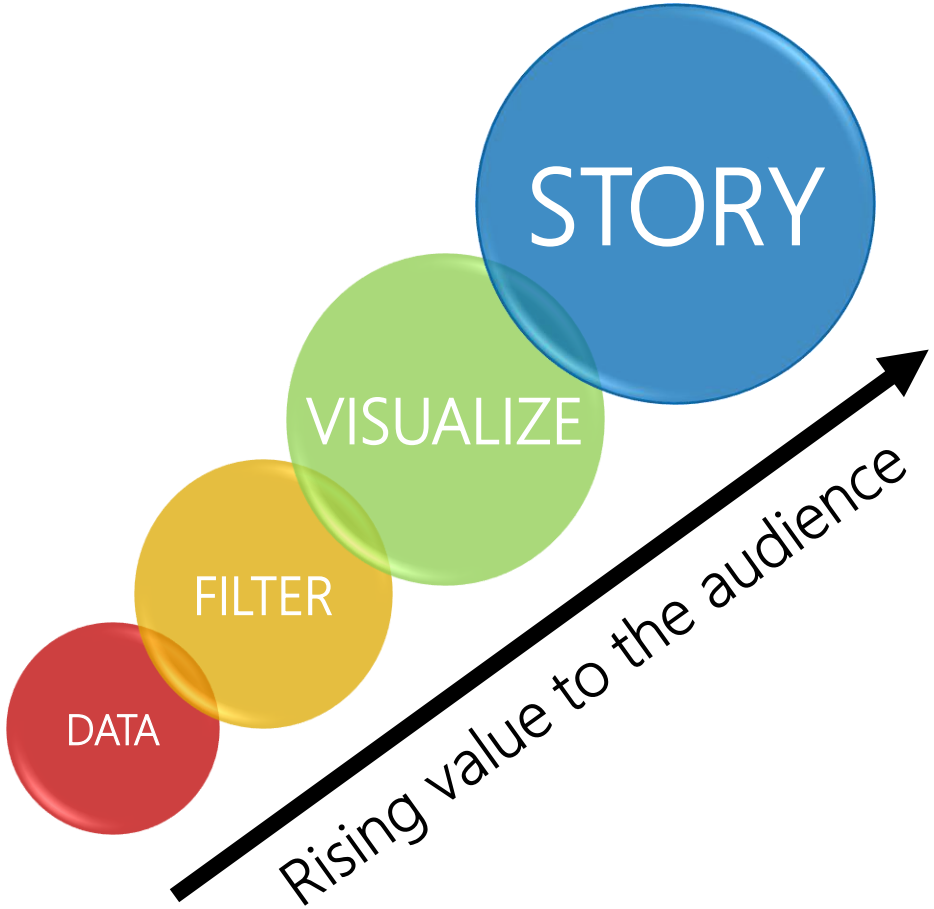
Representing Planning • Operations / DOTs • MPOs / RITIS User Group co-chairs

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…

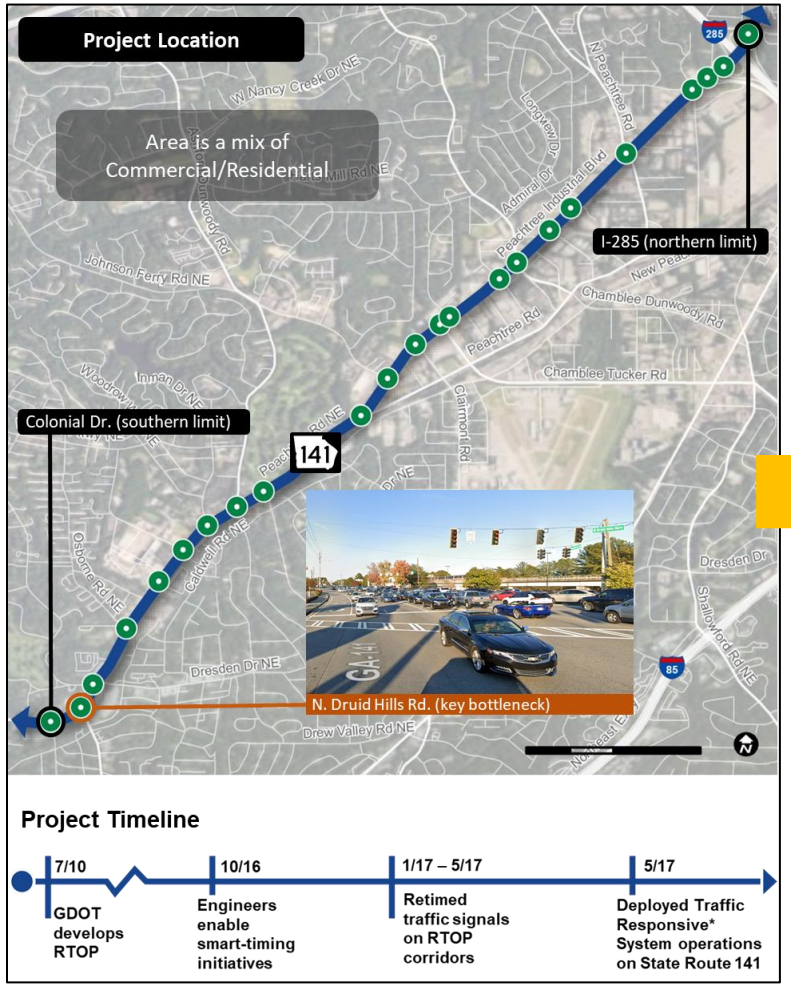
…**that supports** decision-making, **meets** a requirement or **promotes** an action…

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

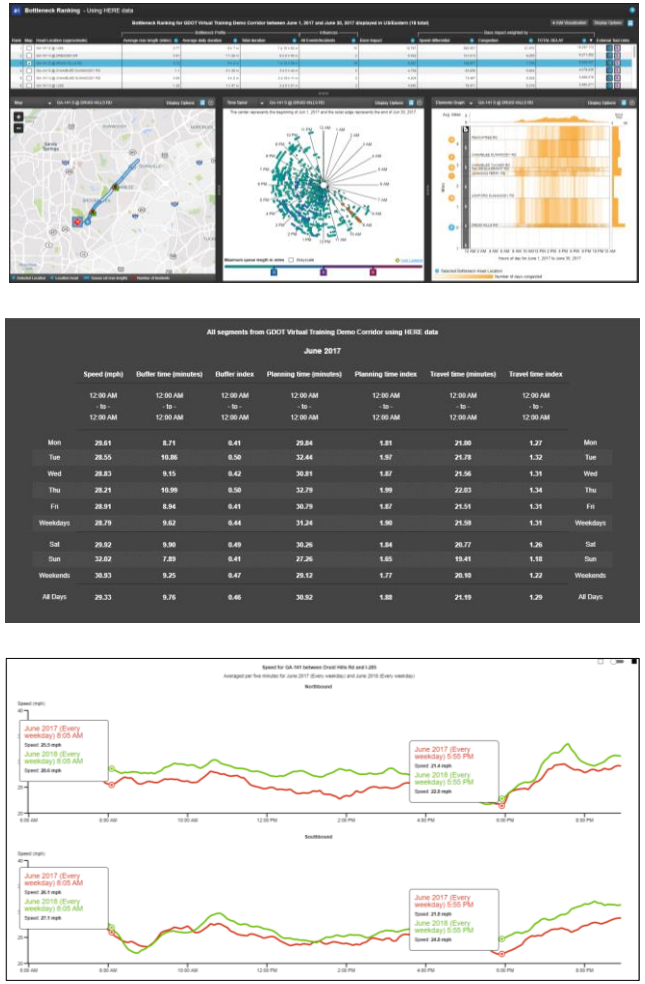


A basic three-step process to create performance reports

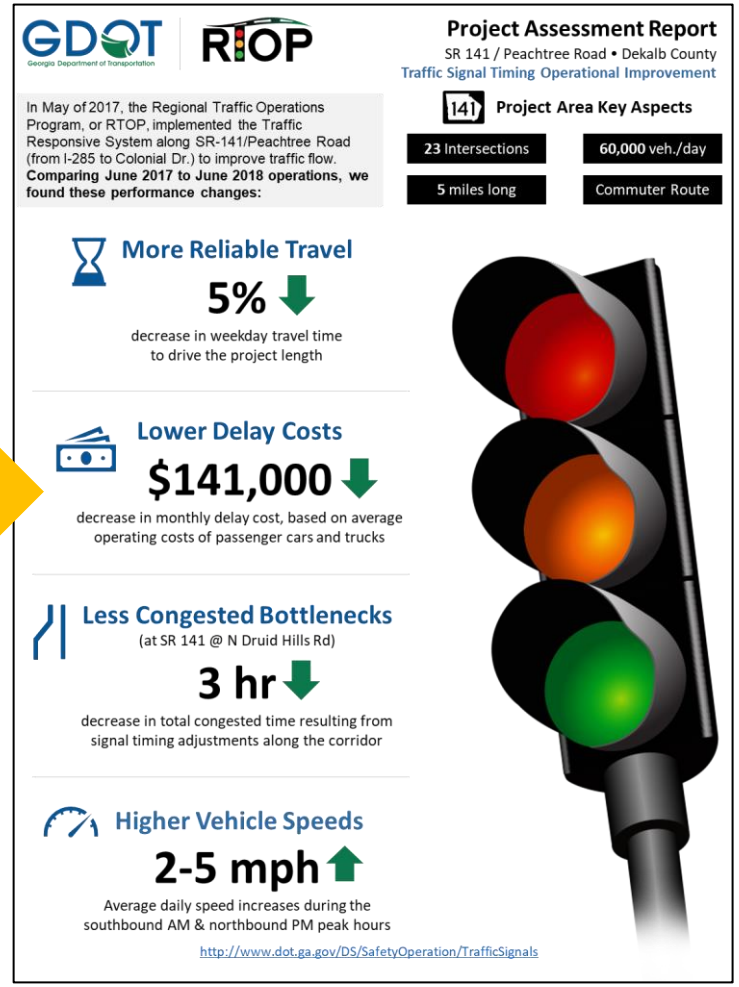
1 Choose a use case



2 Run RITIS tools



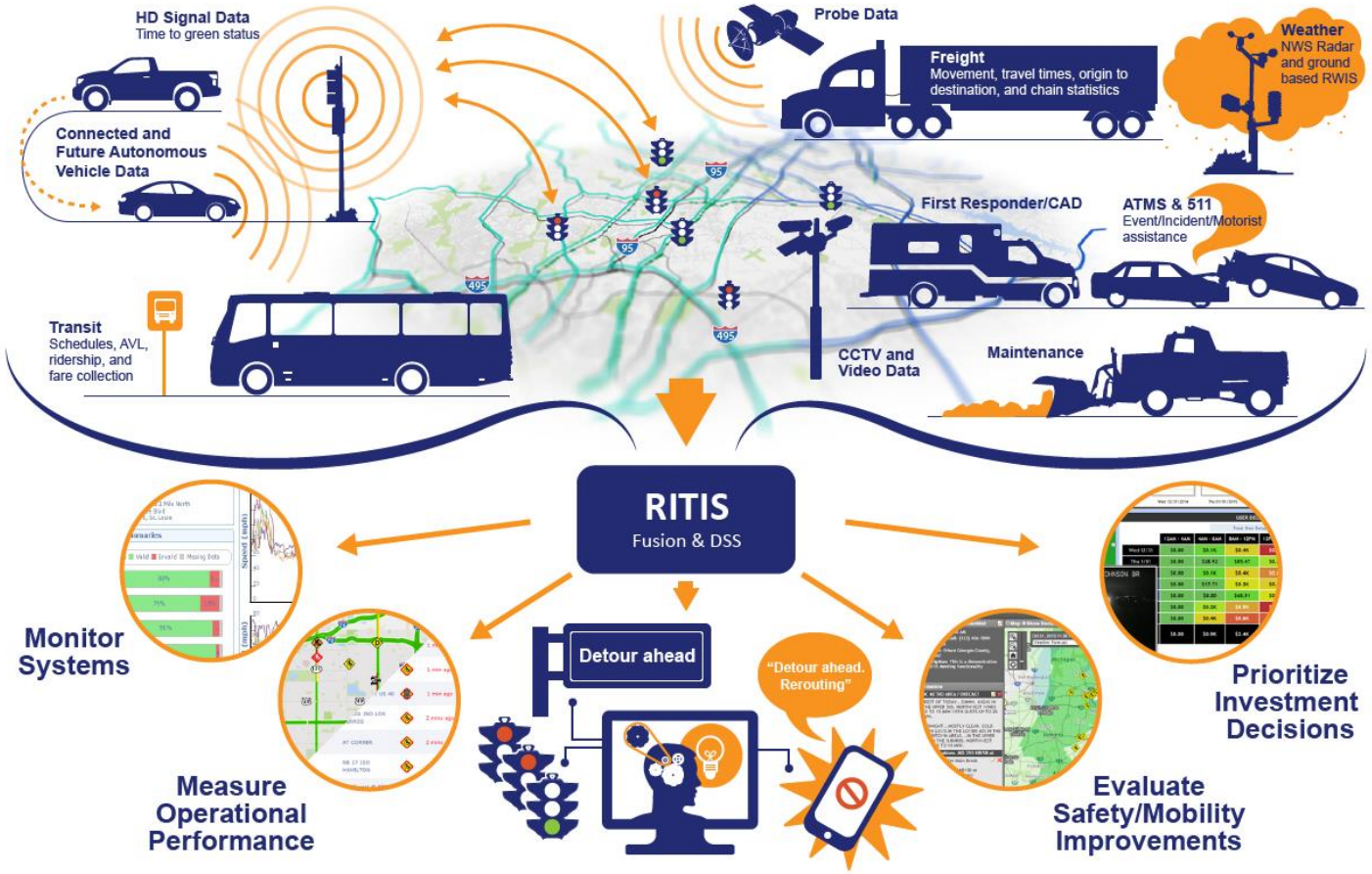
3 Summarize results in a template



Agenda

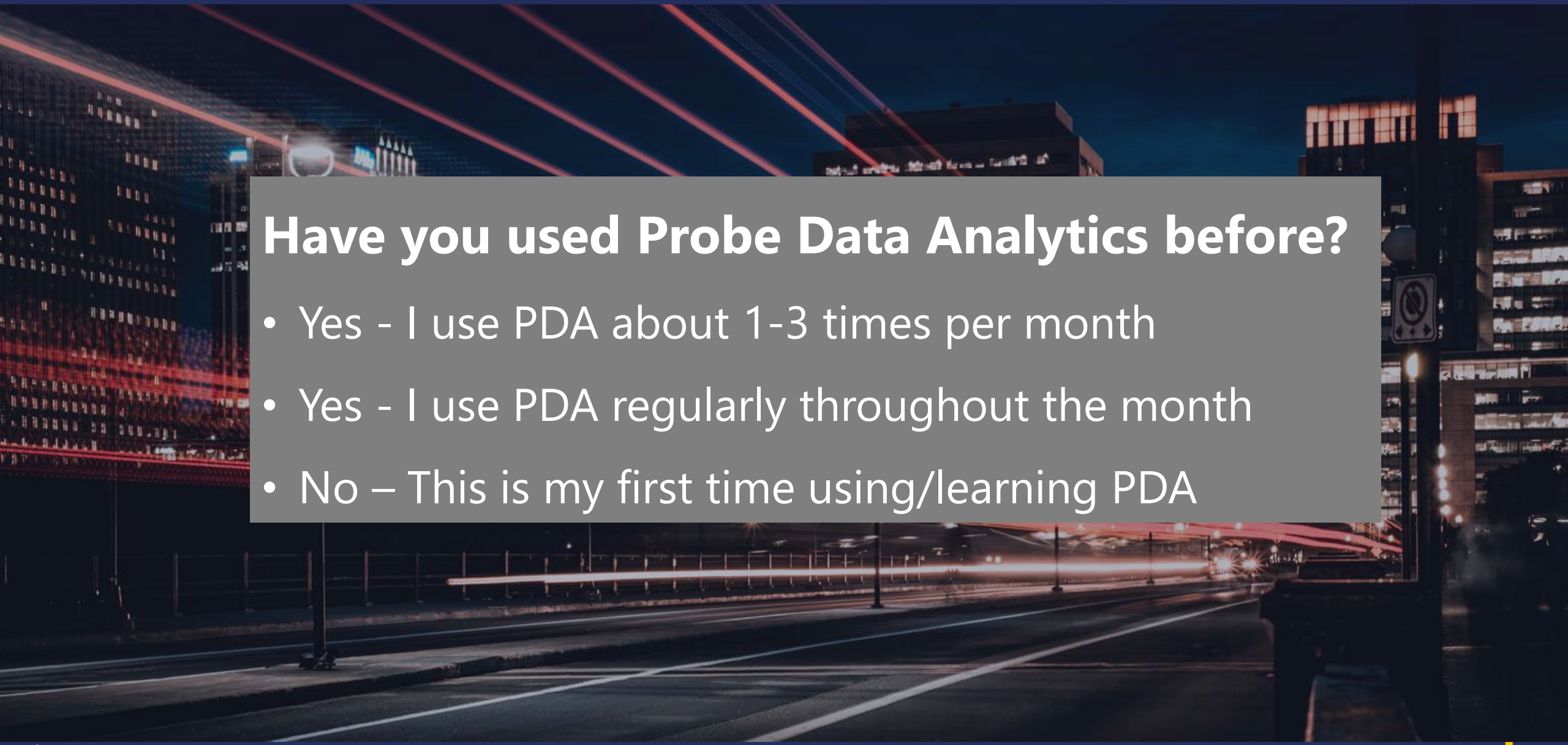
- Welcome and Intros
- Overview of RITIS resource site
- Review of PDA tools used to generate corridor and congestion perf. reports
- Report development
  - Monthly congestion performance report
  - Quarterly corridor performance report
- Q&A

https://ritis.org/intro



https://ritis.org

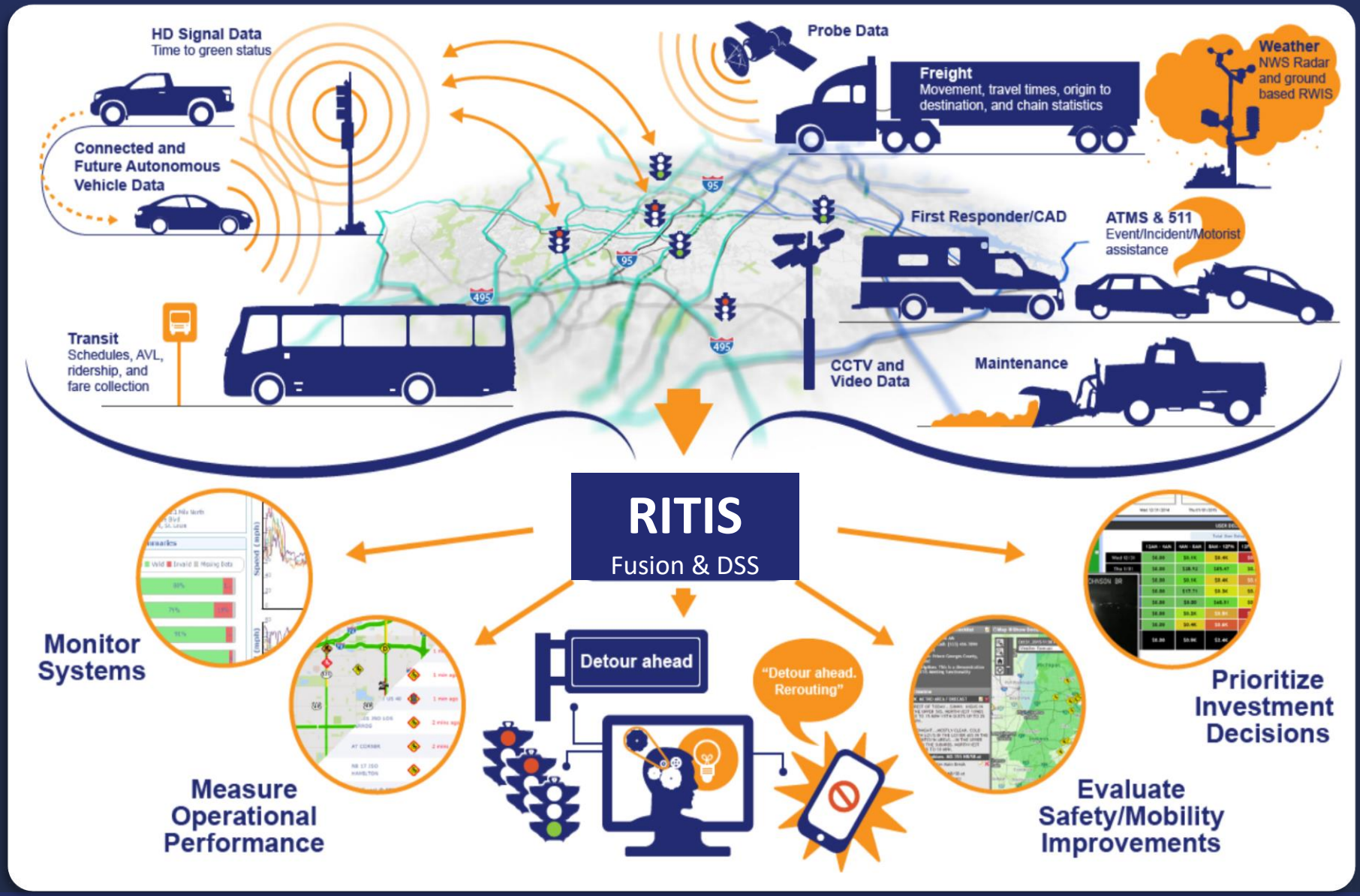
Attendee Polling – Q1



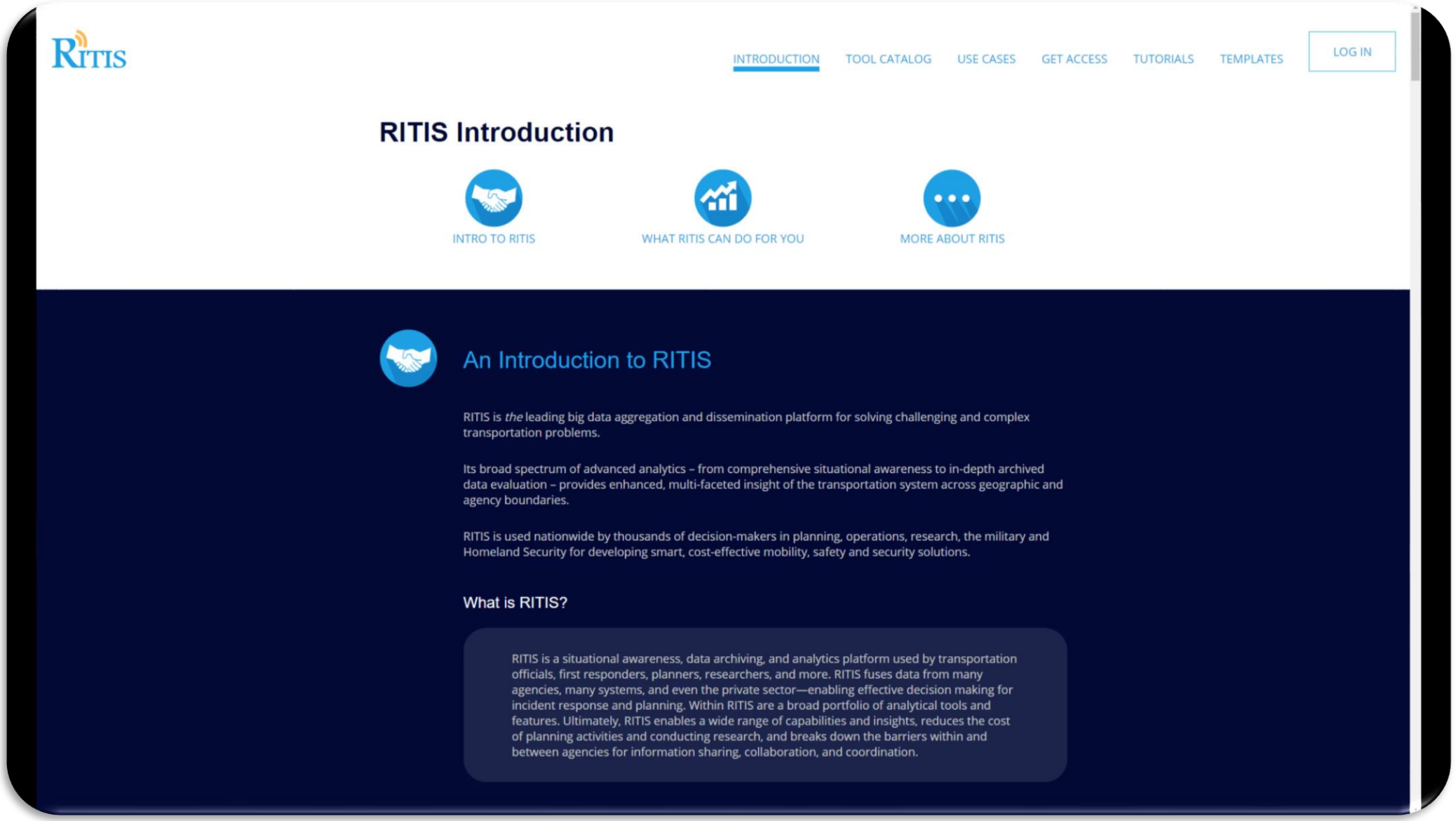
Have you used Probe Data Analytics before?

- 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

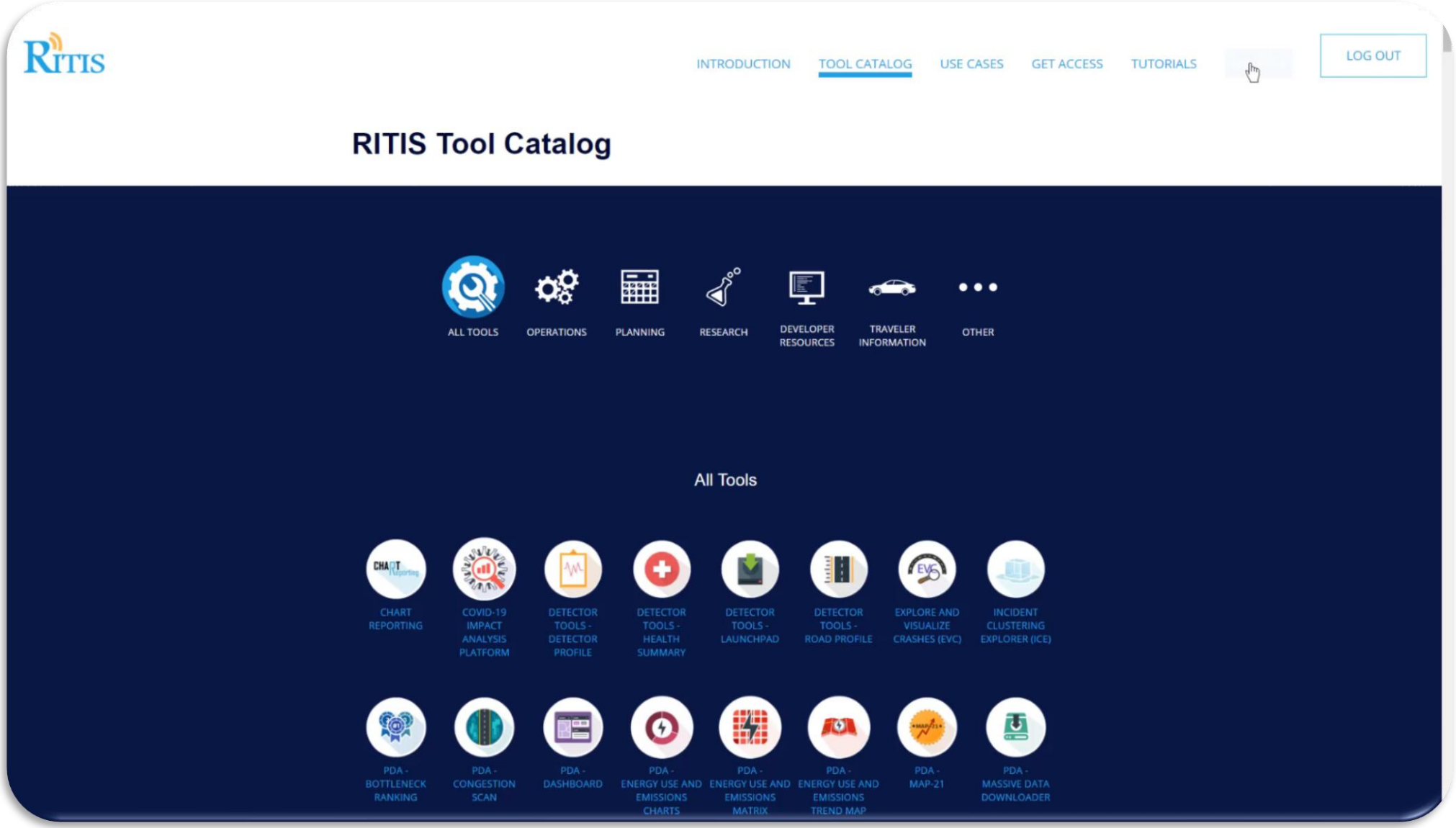
Regional Integrated Transportation Information System



RITIS Resources

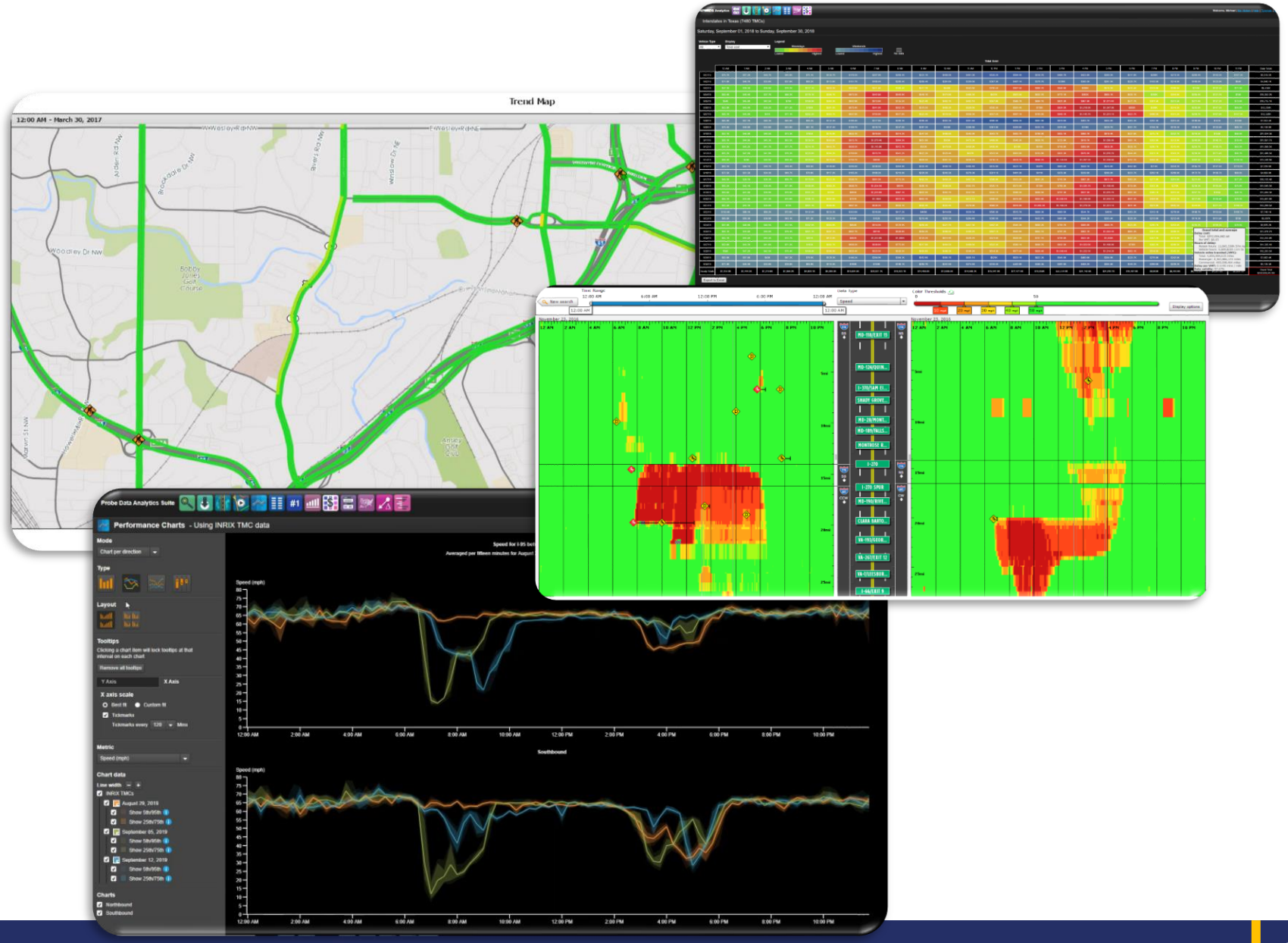


RITIS Report Templates



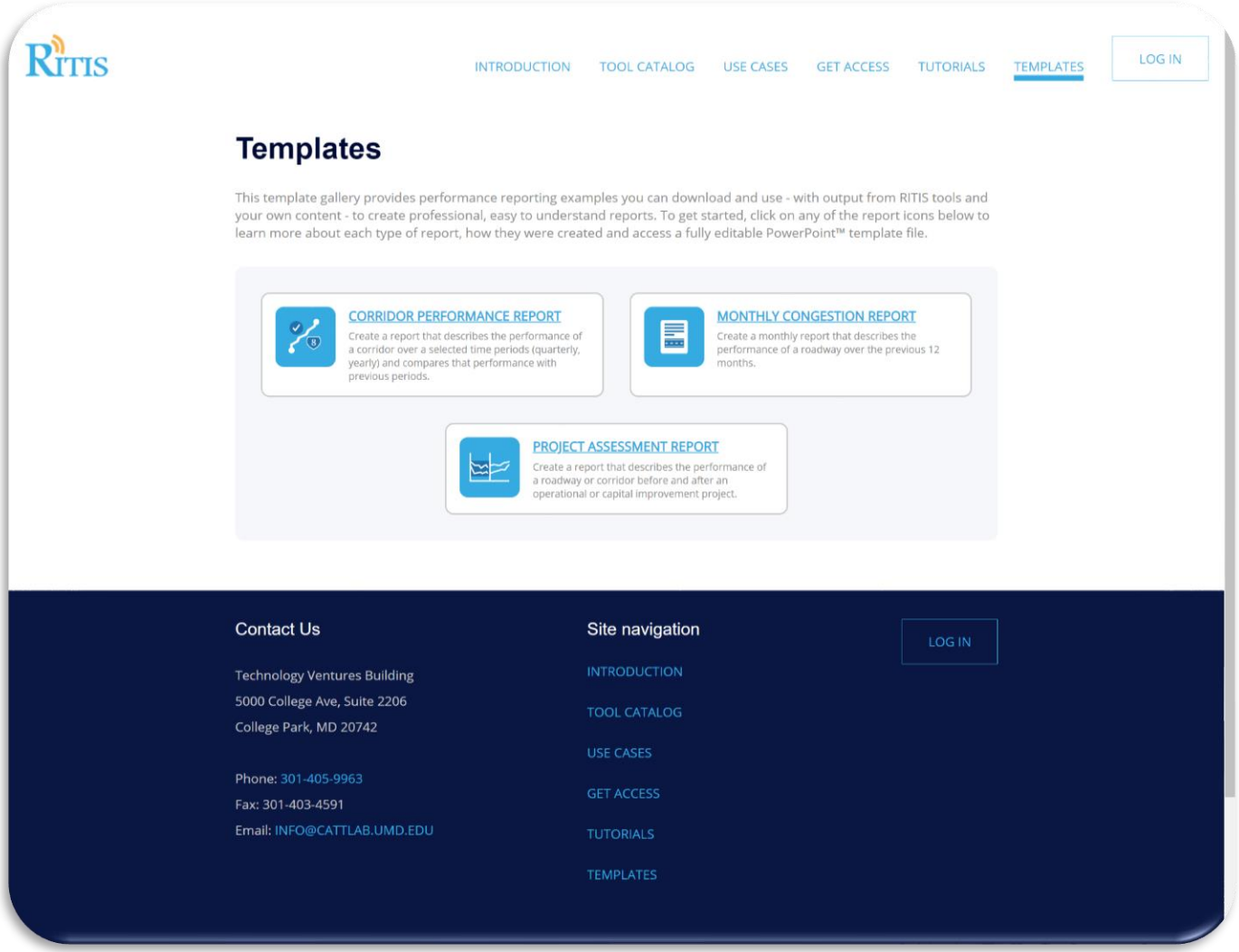
Probe Data Analytics – Why Report Templates?

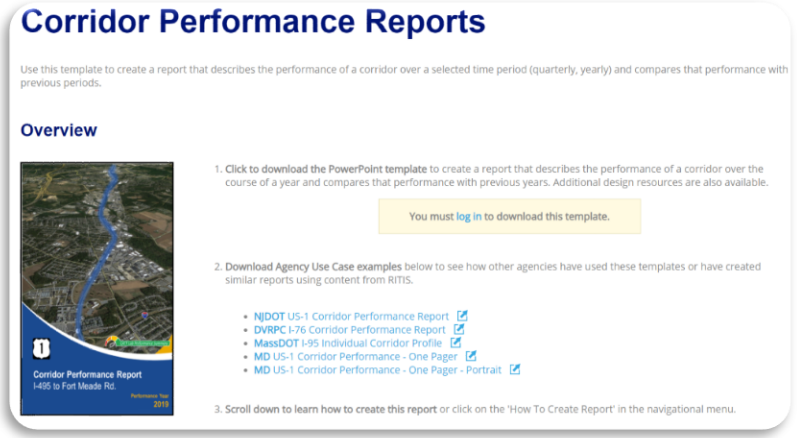
- **DATA DRIVEN INSIGHTS**
- OPERATIONS
  - Signalized corridor before & after studies
  - After-action incident review
  - Work zone impacts
  - Safety and operations
  - Significant event analysis
- PLANNING
  - Program reviews for project prioritization
  - Business case justification
  - Public information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

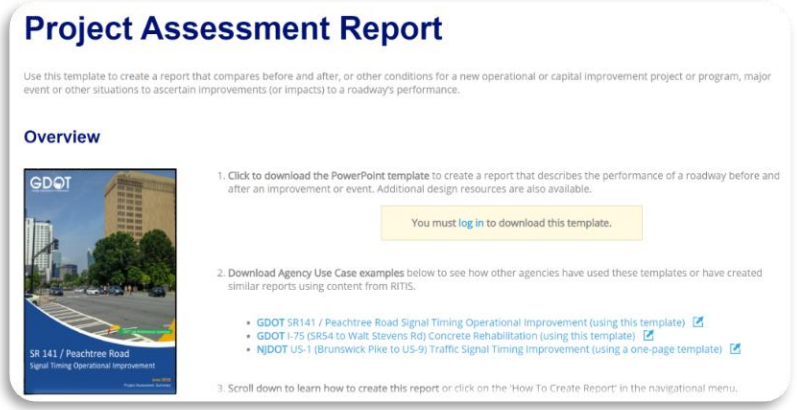


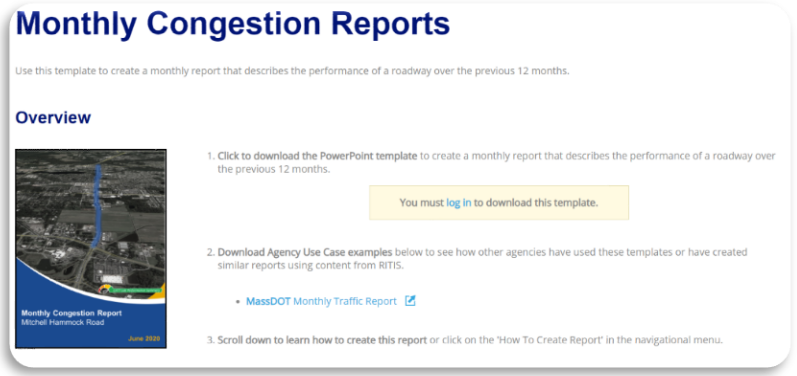
Probe Data Analytics Suite – Report Templates

Report Templates – Tell Your Story



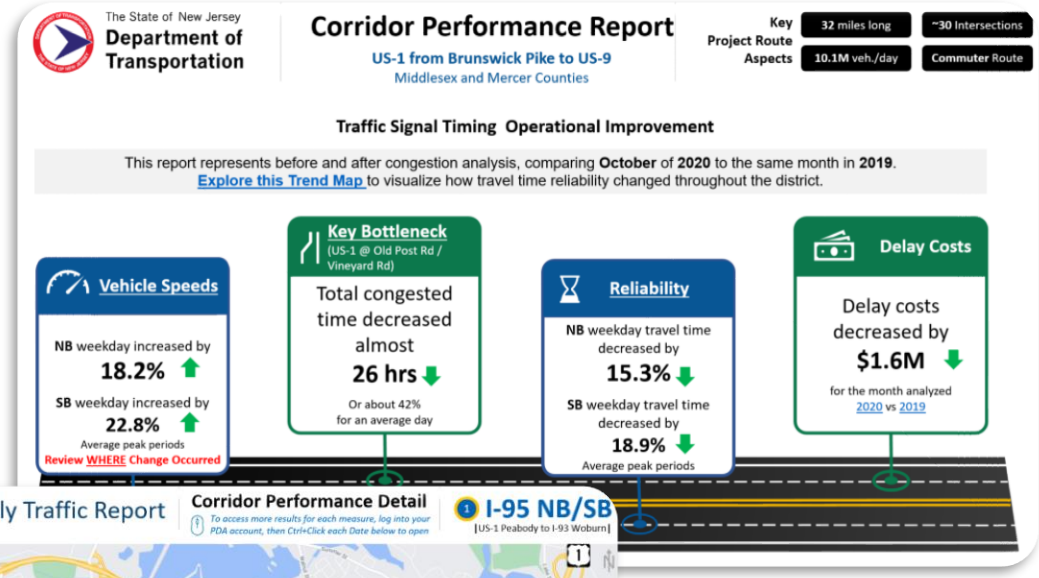


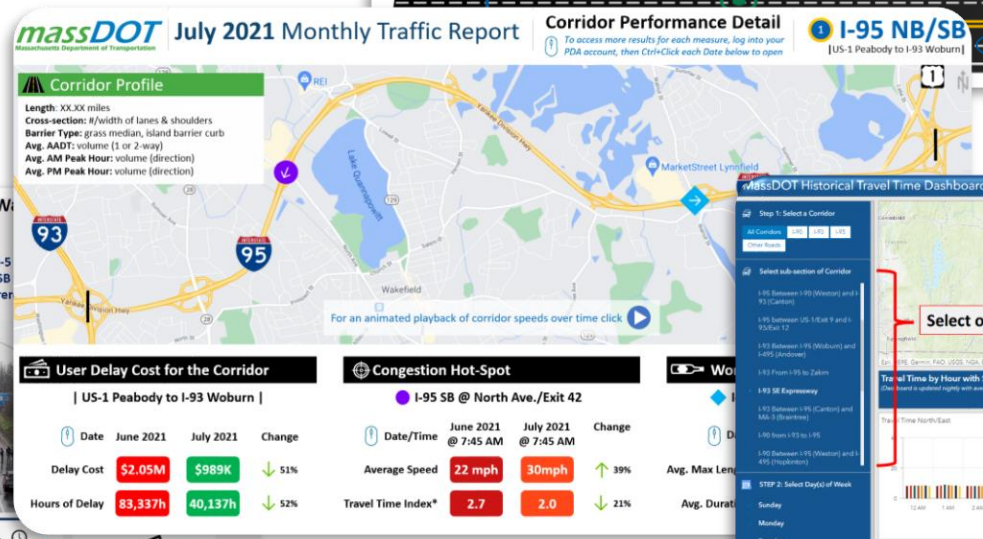


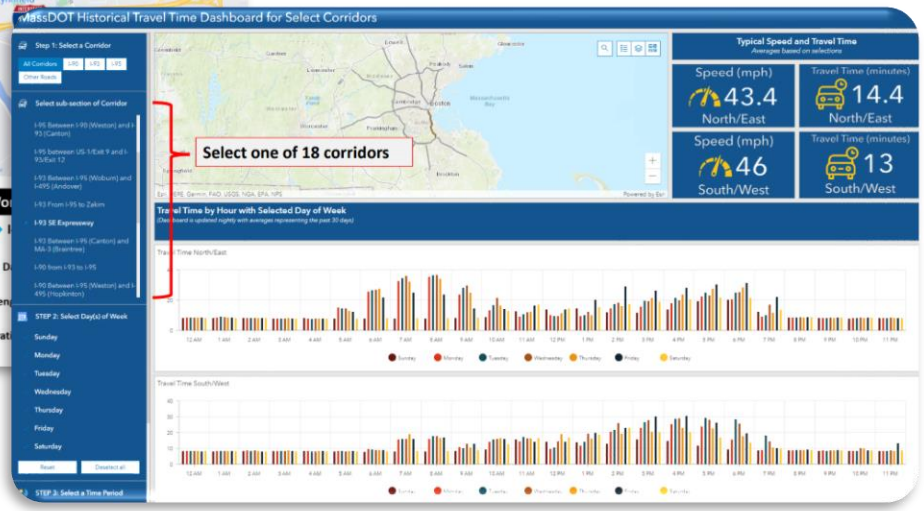


Report Templates – Use Cases

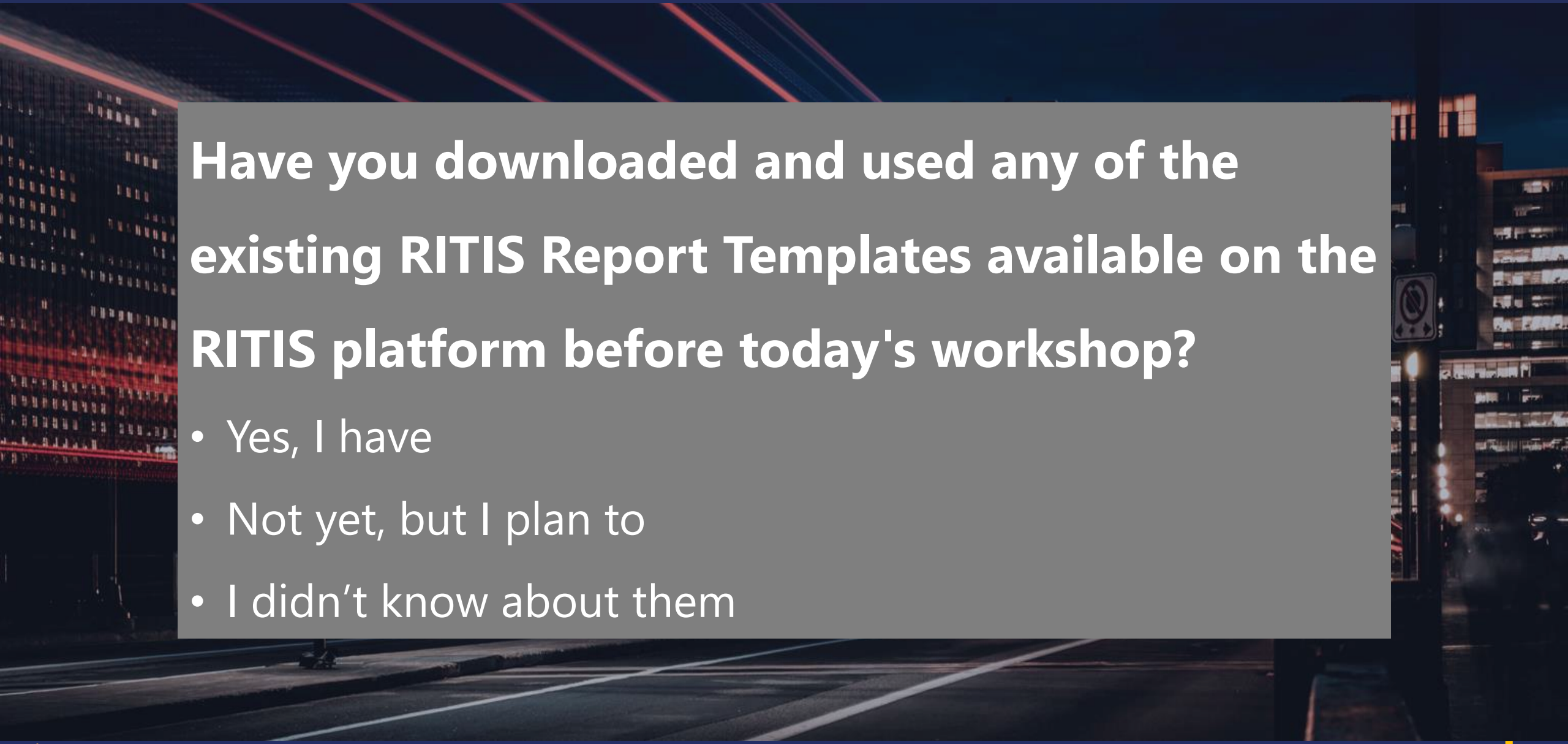
- Massachusetts DOT
- New Jersey DOT
- Oregon DOT
- Delaware Valley Regional Planning Commission







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

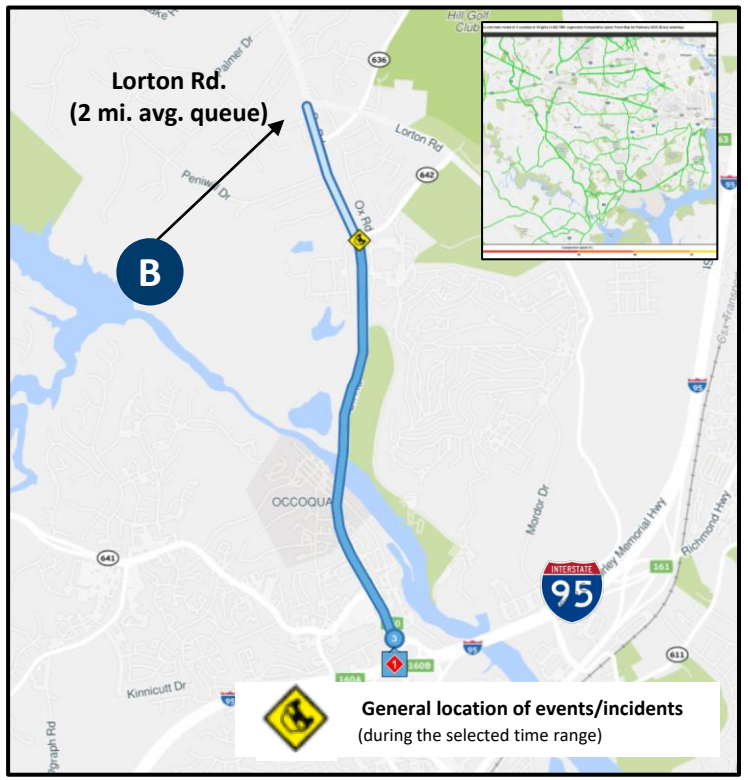
3 VA-123 S @ I-95

Monthly Congestion Performance Report Feb. 2022

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



$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

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

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No significant AM congestion locations

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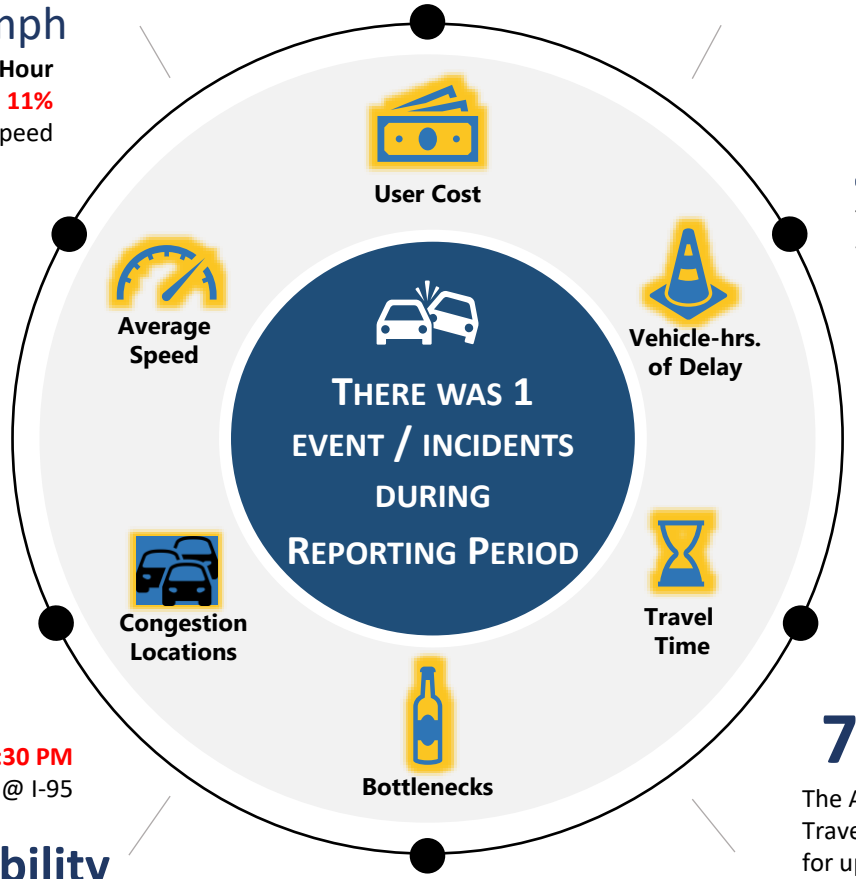

5,881 hr
The Vehicle-hrs. of Delay for Feb. of 2022

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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

VDOT Virginia Department of Transportation

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 Norther 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

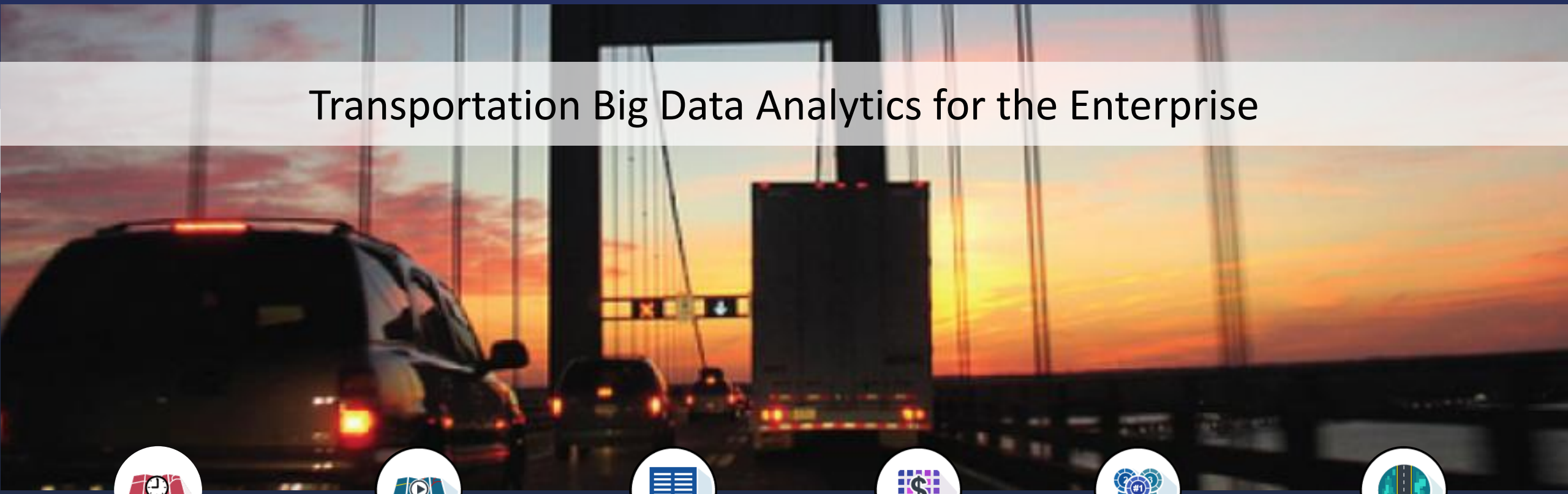
Delay Costs

Delay Costs
INCRESEASED

~$9.7M ⬆

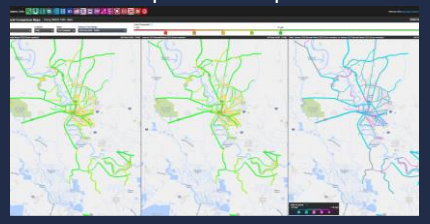
Q1 2022 UDC Report
Q1 2021 UDC Report

Probe Data– Share Your Story

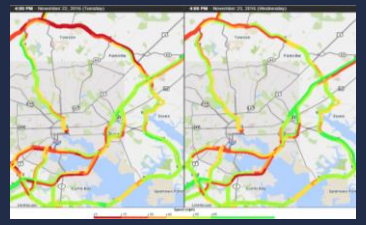


Transportation Big Data Analytics for the Enterprise

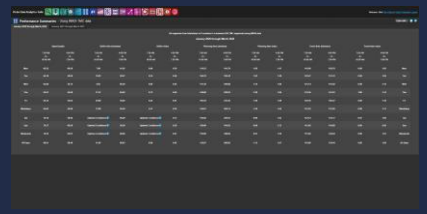
Temporal Comparison Maps



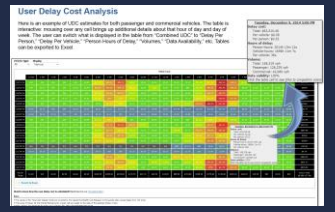
Trend Map



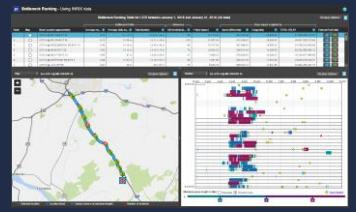
Performance Summaries



User Delay Cost



Bottleneck Ranking



Congestion Scan

Probe Data Analytics Suite – Share Your Story

https://pda.ritis.org

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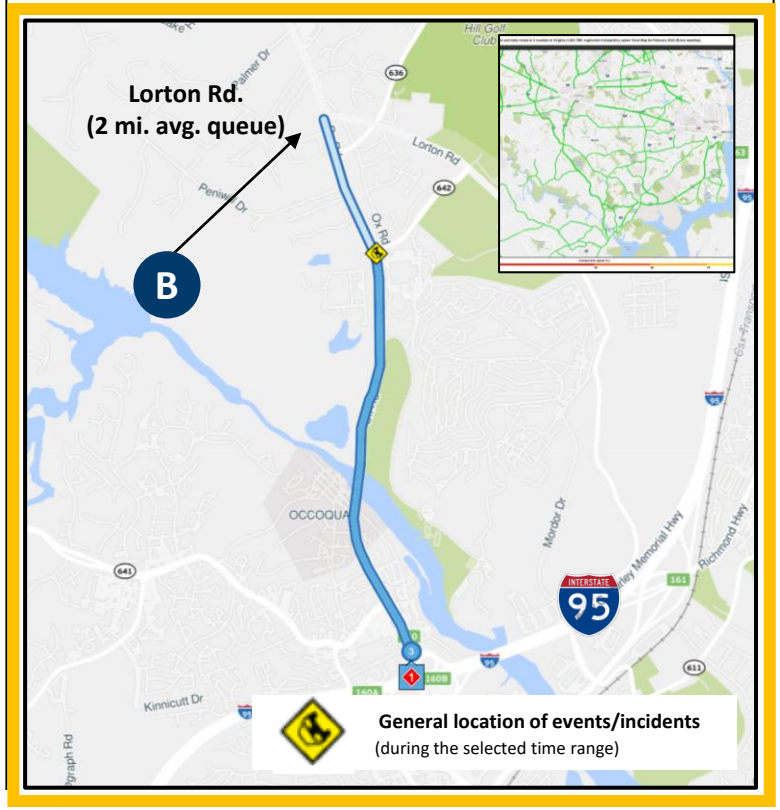

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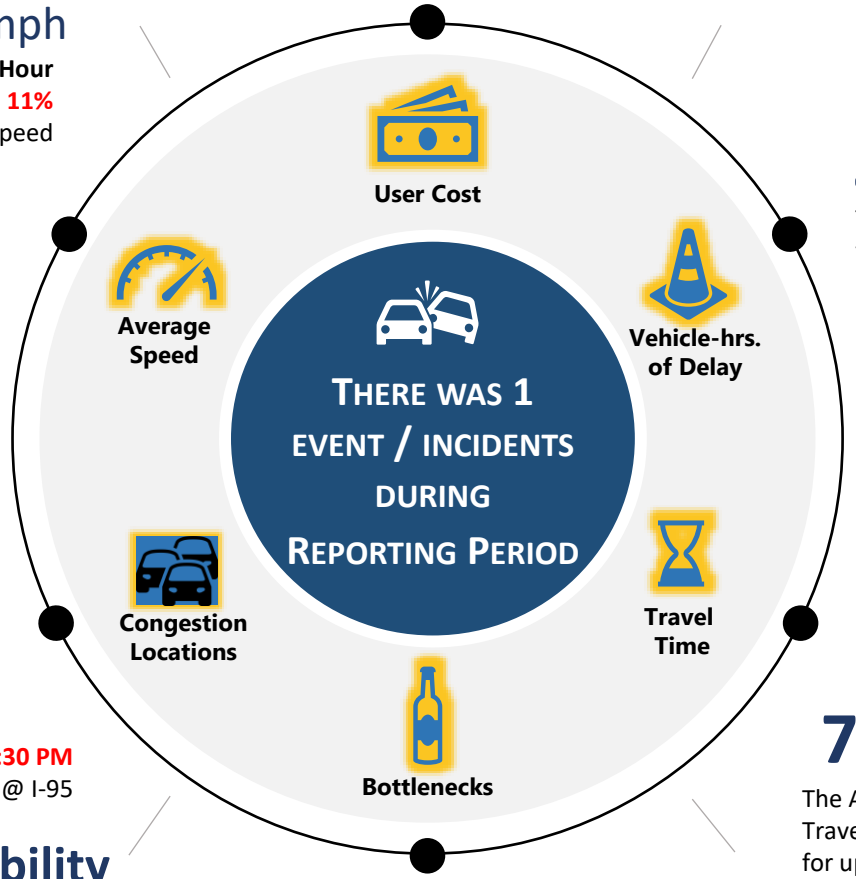

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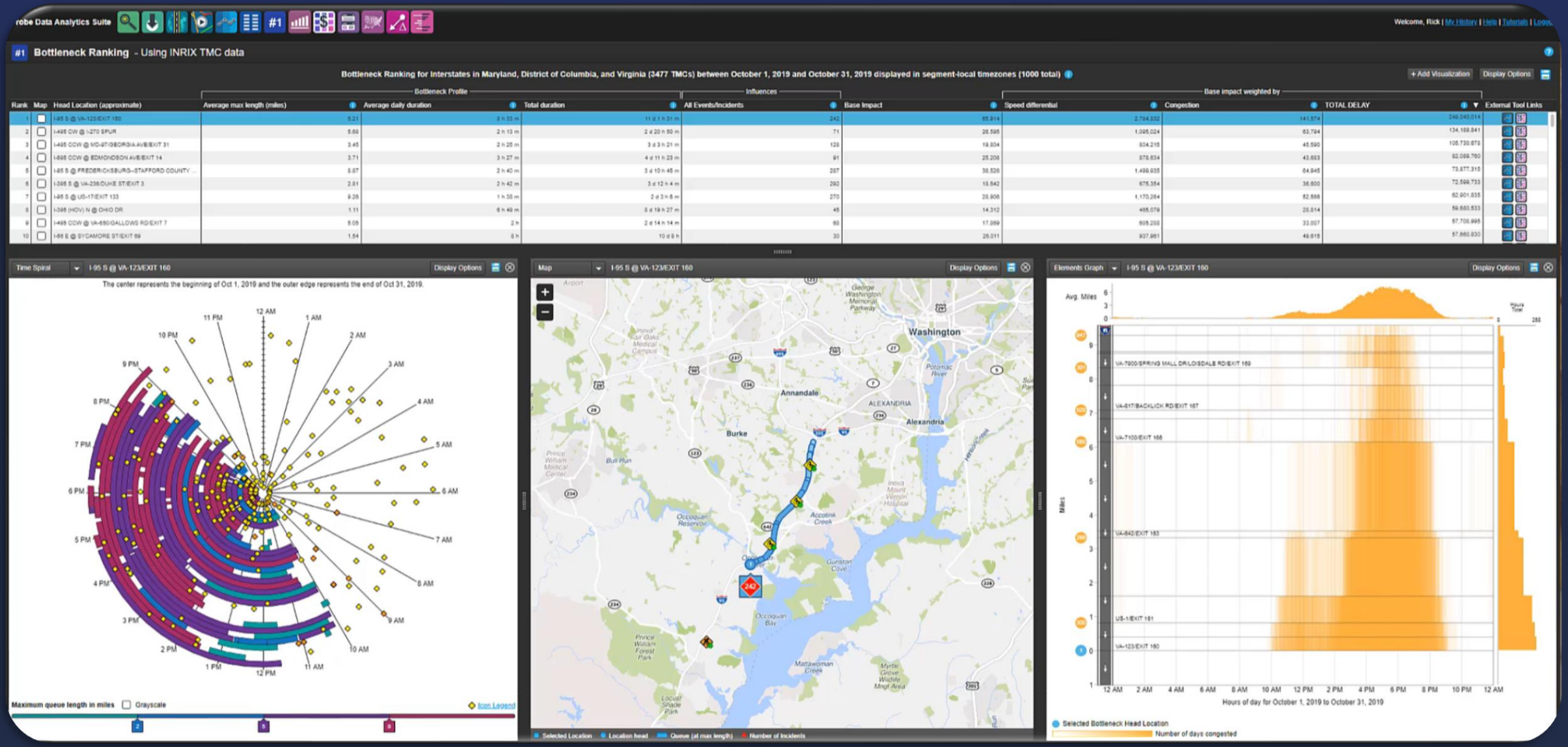
VDOT Virginia Department of Transportation

Bottleneck Ranking (project prioritization)



Demo

Bottleneck Ranking Report

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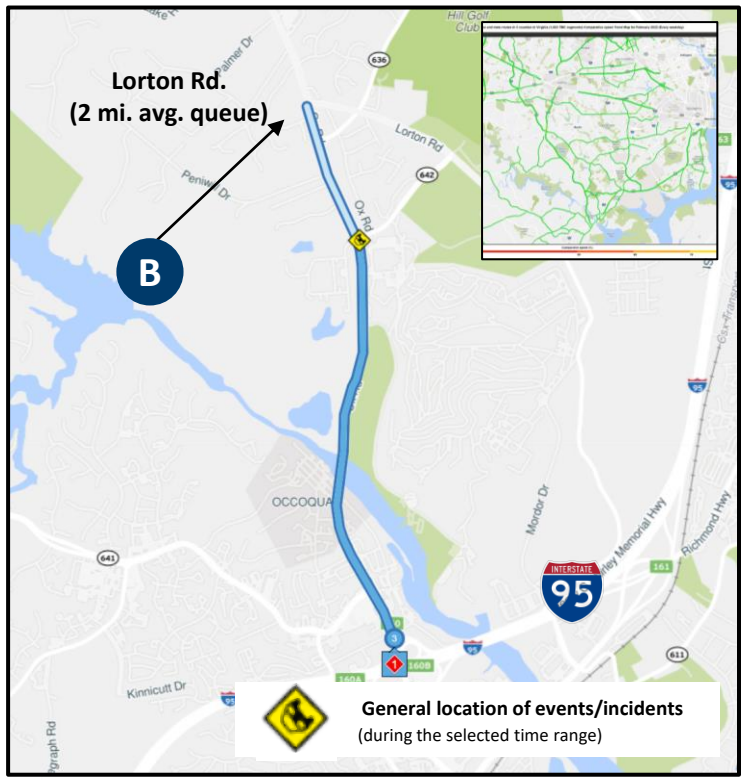

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User Cost
Average Speed
Vehicle-hrs. of Delay
Congestion Locations
Travel Time
Bottlenecks

THERE WAS 1 EVENT / INCIDENTS DURING REPORTING PERIOD

A None
No significant AM congestion locations

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Lorton Rd. to VA-123 @ I-95

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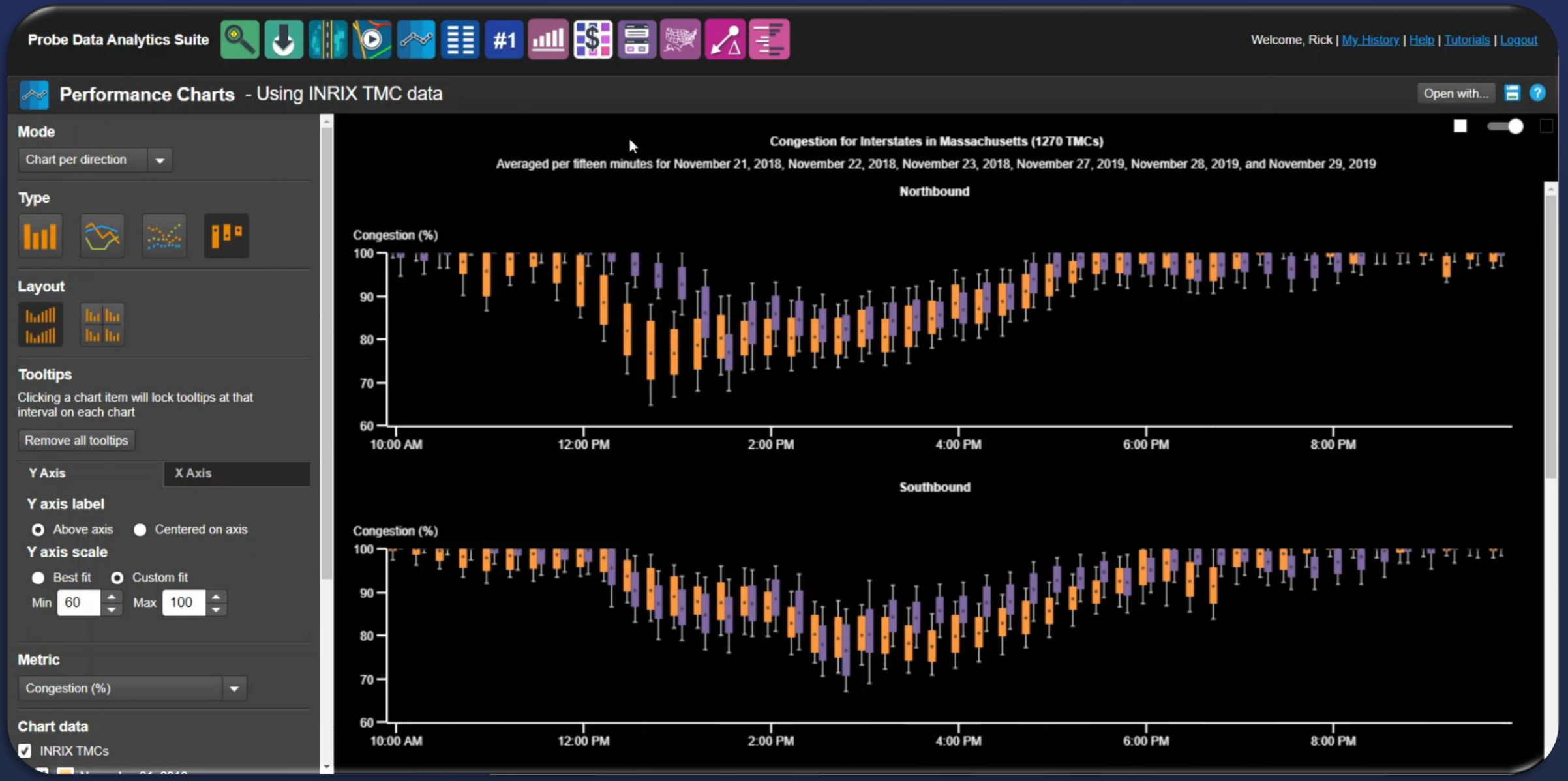
VDOT Virginia Department of Transportation

Performance Charts & Summaries



Demo

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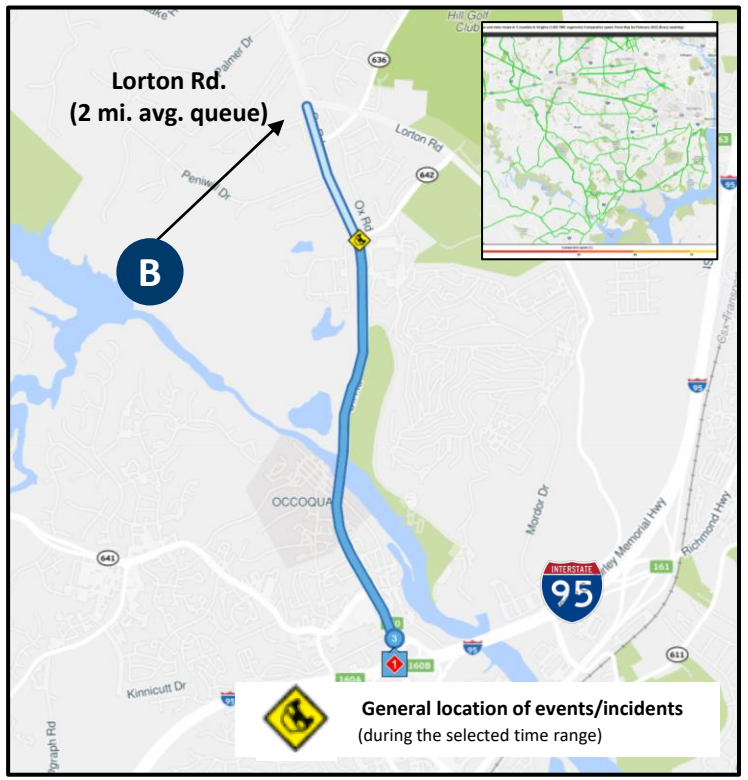

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VDOT Virginia Department of Transportation

User Delay Costs (make the case for funding)

Demo

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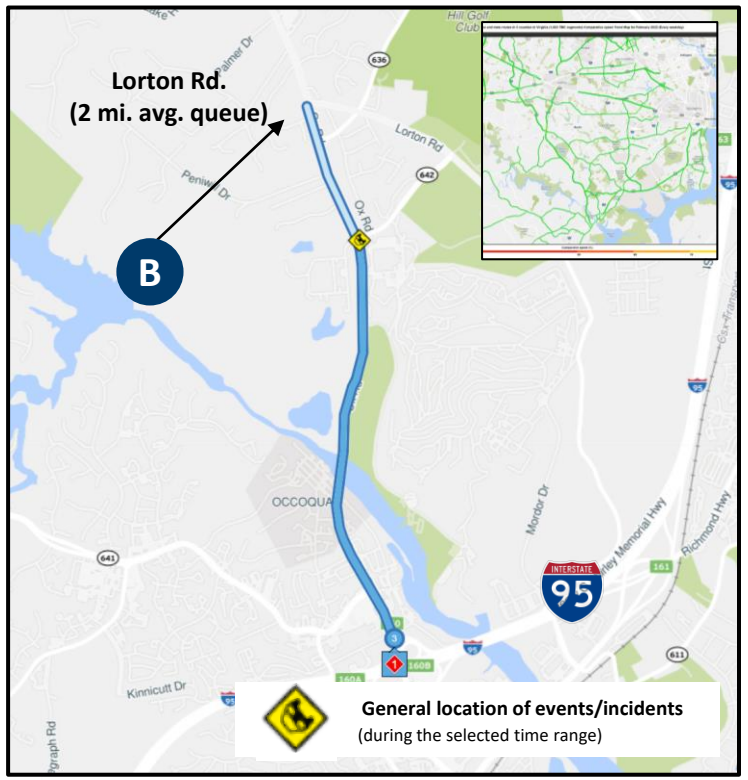

$177,596
The Total Delay Cost for Feb. of 2022

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

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

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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

THERE WAS 1 EVENT / INCIDENTS DURING REPORTING PERIOD

User Cost
Average Speed
Vehicle-hrs. of Delay
Congestion Locations
Travel Time
Bottlenecks

A None
No significant AM congestion locations

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

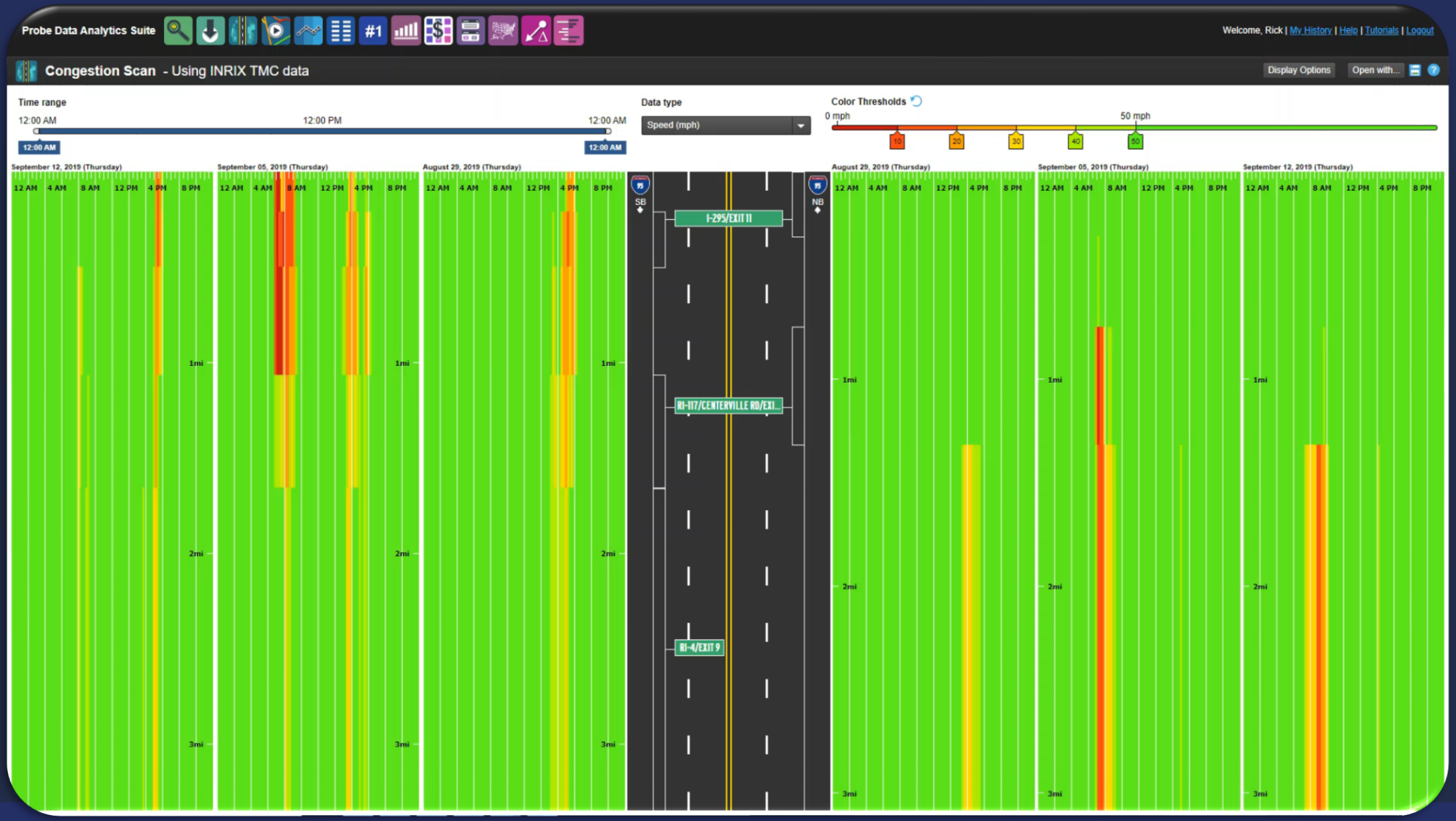
Travel Time Reliability Feb. vs. Jan

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

3 pm - 6:30 pm
Most of the Bottlenecks along this roadway occurred between these times

VDOT Virginia Department of Transportation

Congestion Scan (Spatial/Temporal Heat Maps)



Demo

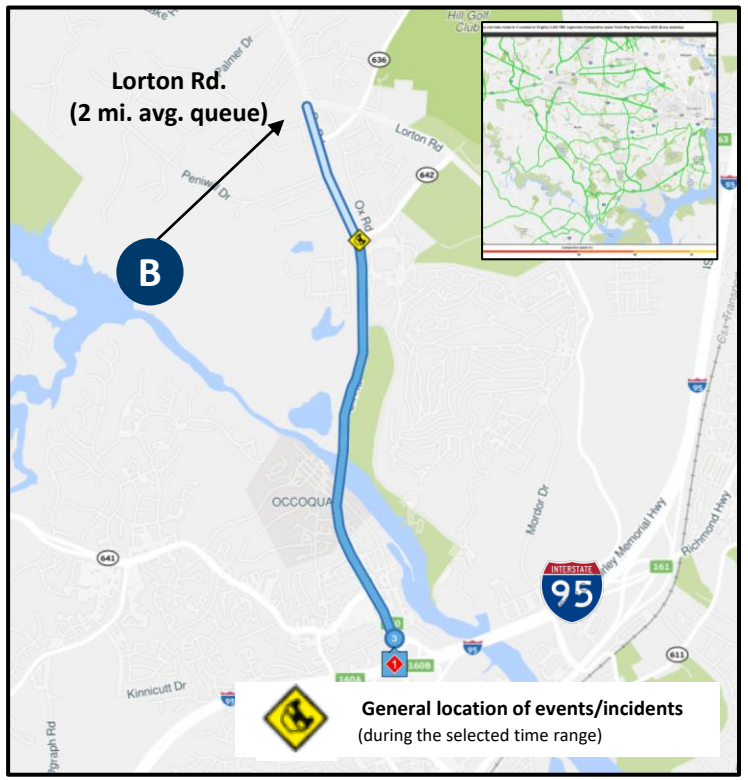
3 VA-123 S @ I-95

Monthly Congestion Performance Report Feb. 2022

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



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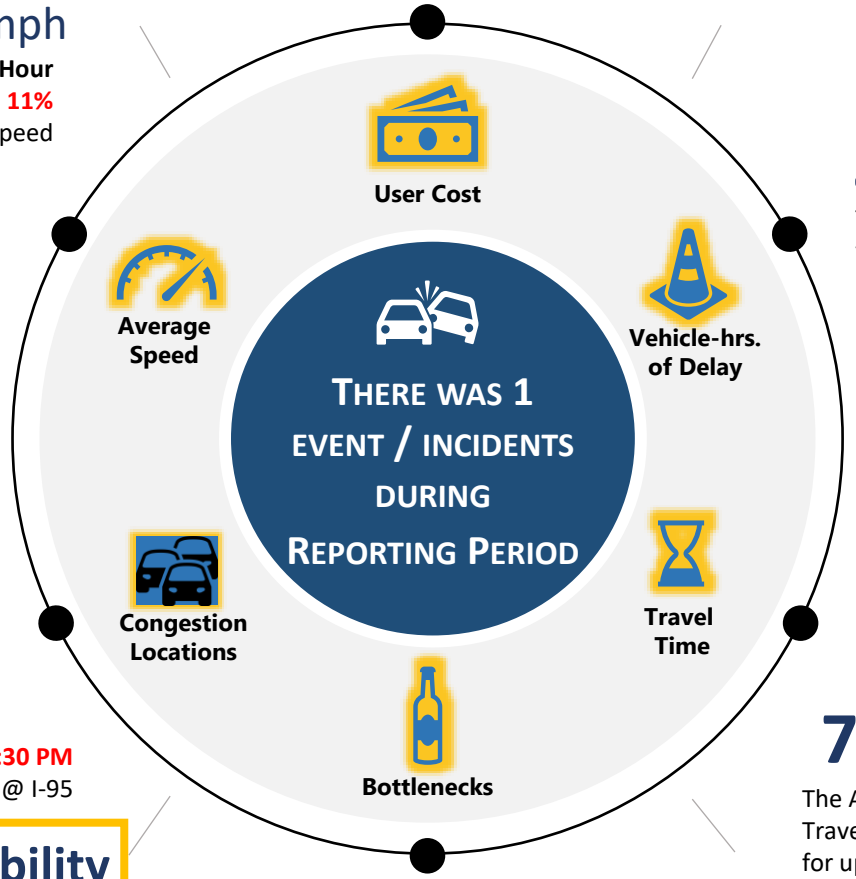

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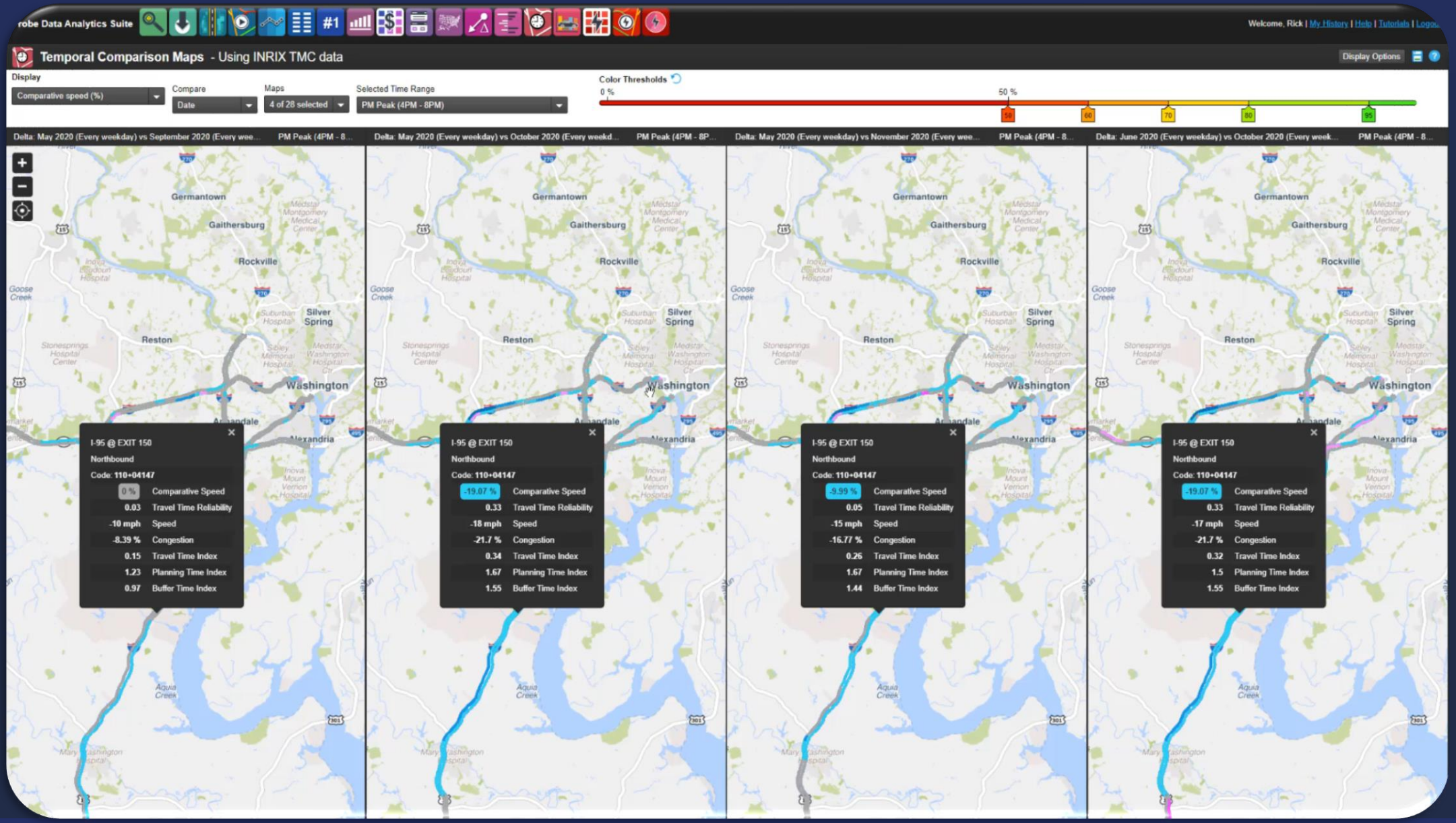
VDOT Virginia Department of Transportation

Temporal Comparison Maps (Delta Maps of KPIs)



Demo

Temporal Comparison Map

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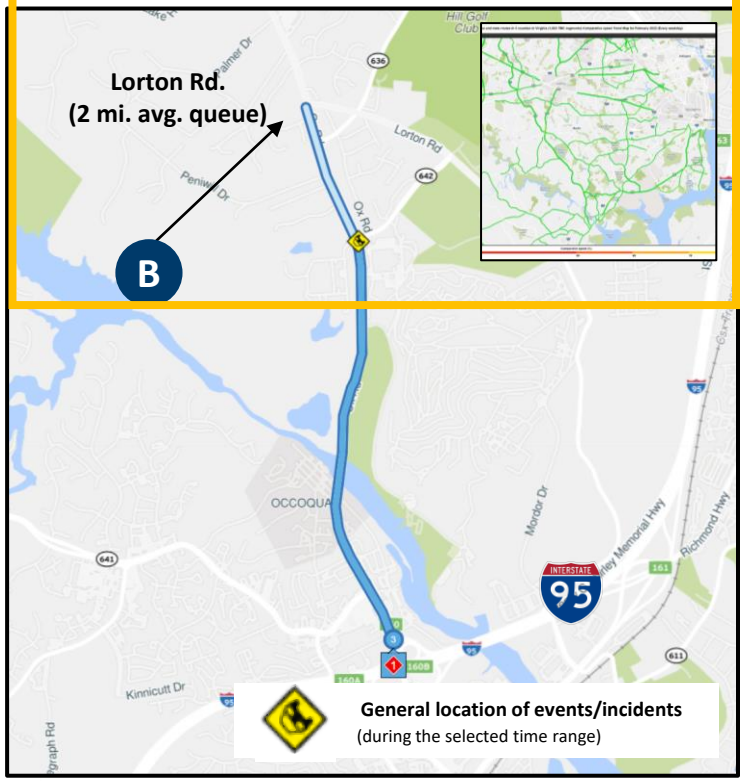

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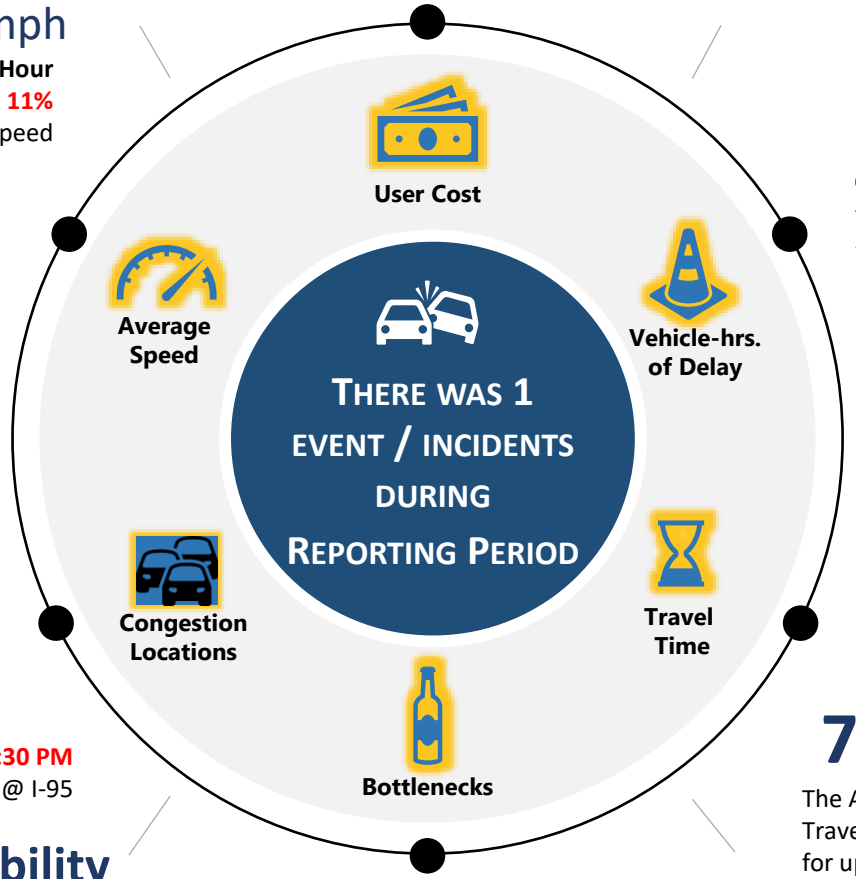

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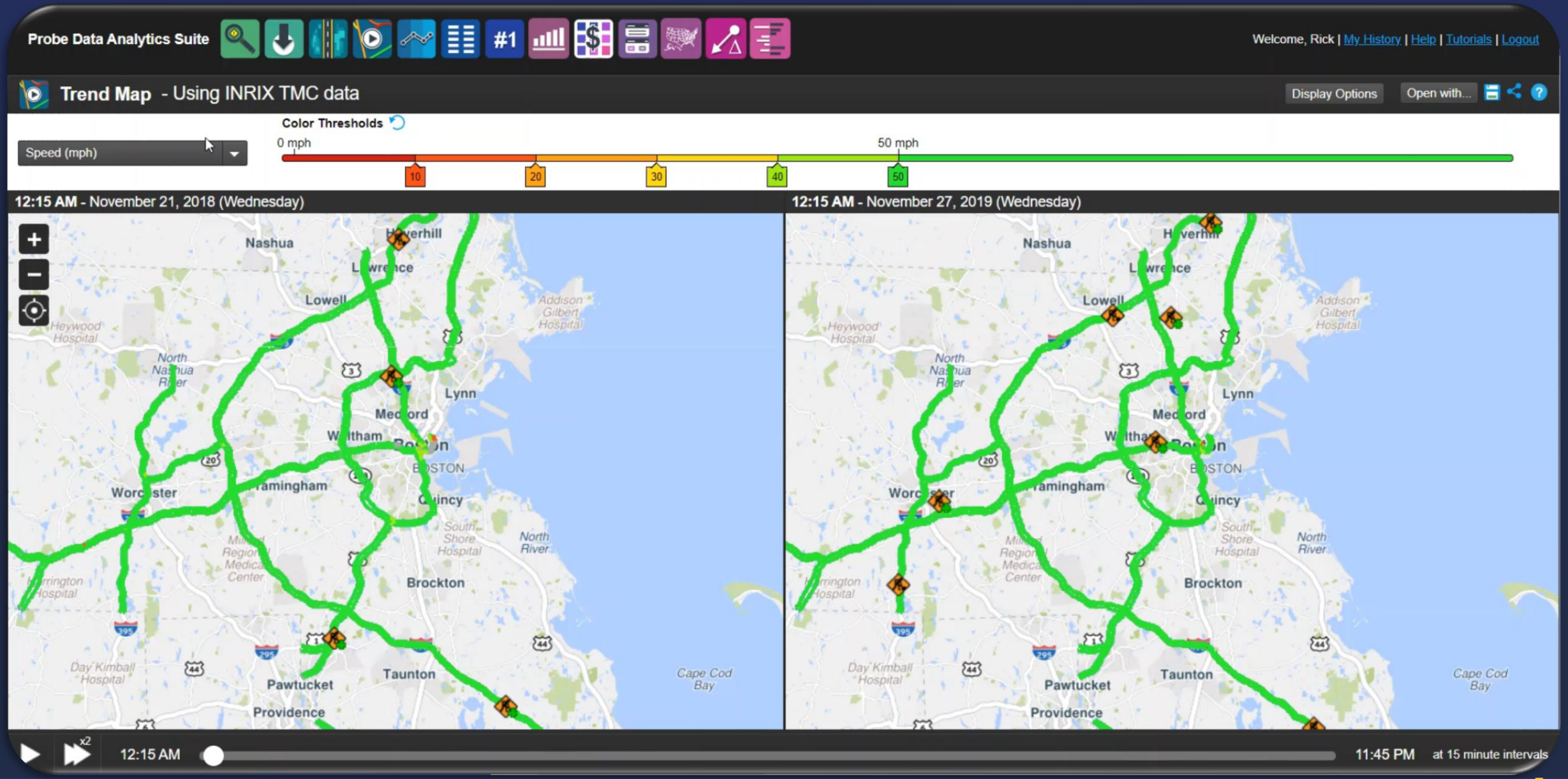
Trend Maps (animated maps to compare change)



Demo

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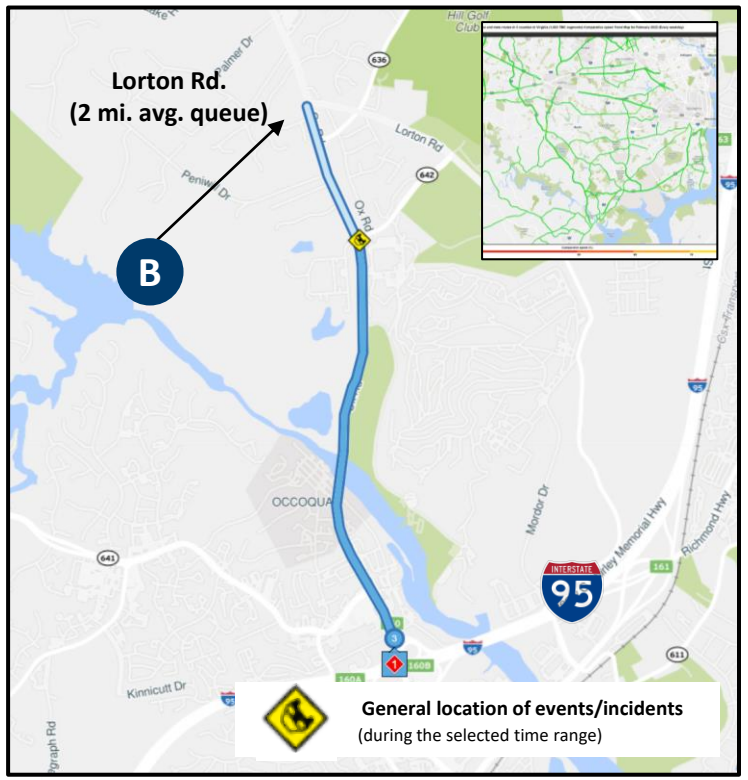

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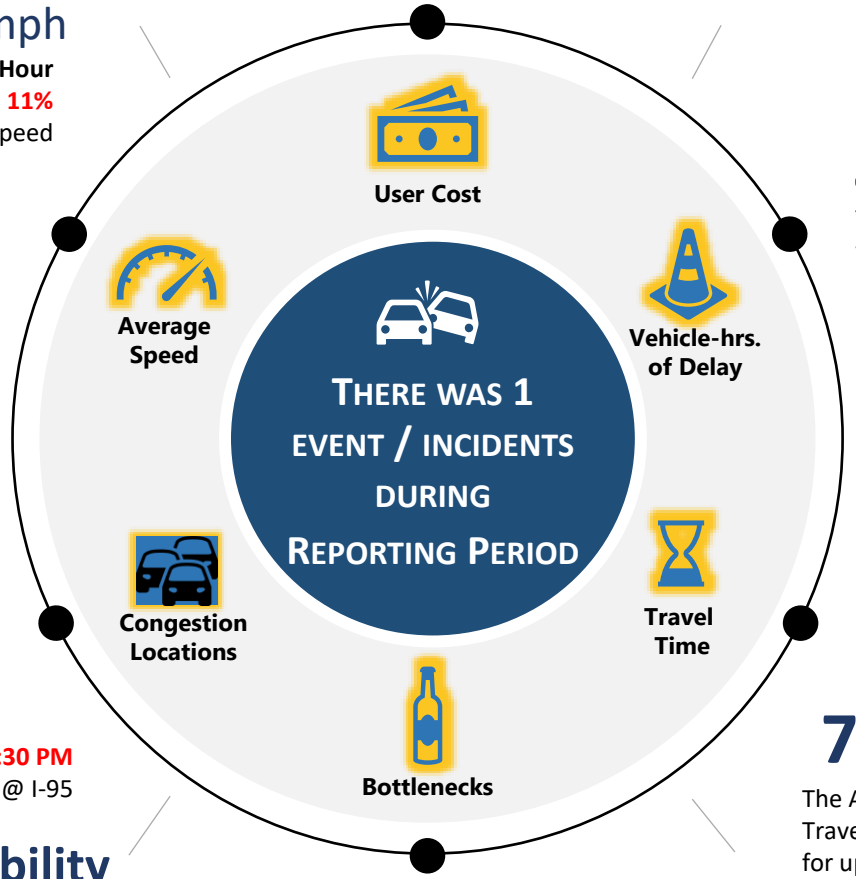

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VDOT Virginia Department of Transportation

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 Norther 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
INCRESEASED

~$9.7M ⬆

Q1 2022 UDC Report
Q1 2021 UDC Report

Probe Data Analytics Suite – Share Your Story

https://pda.ritis.org

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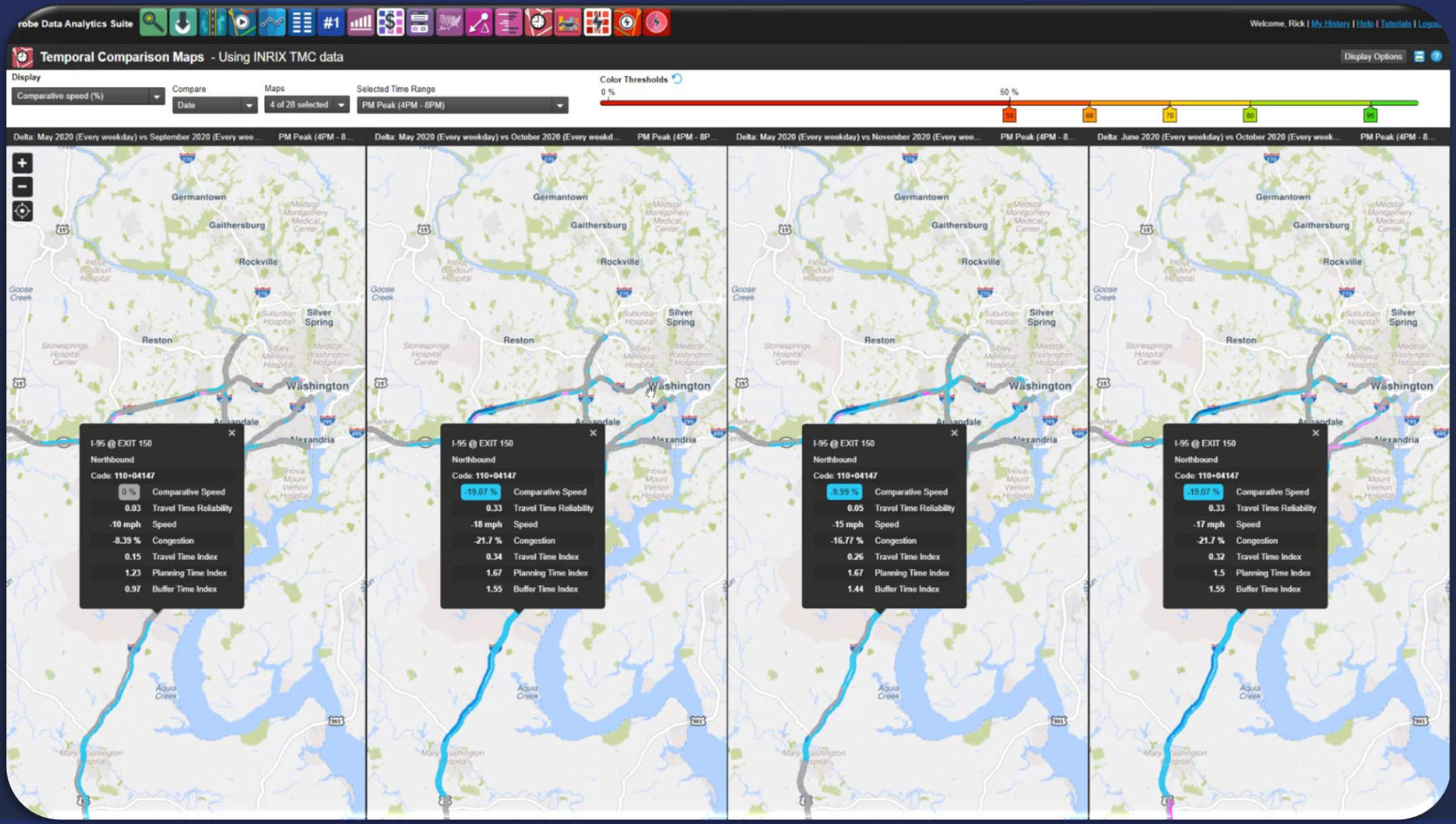

Demo

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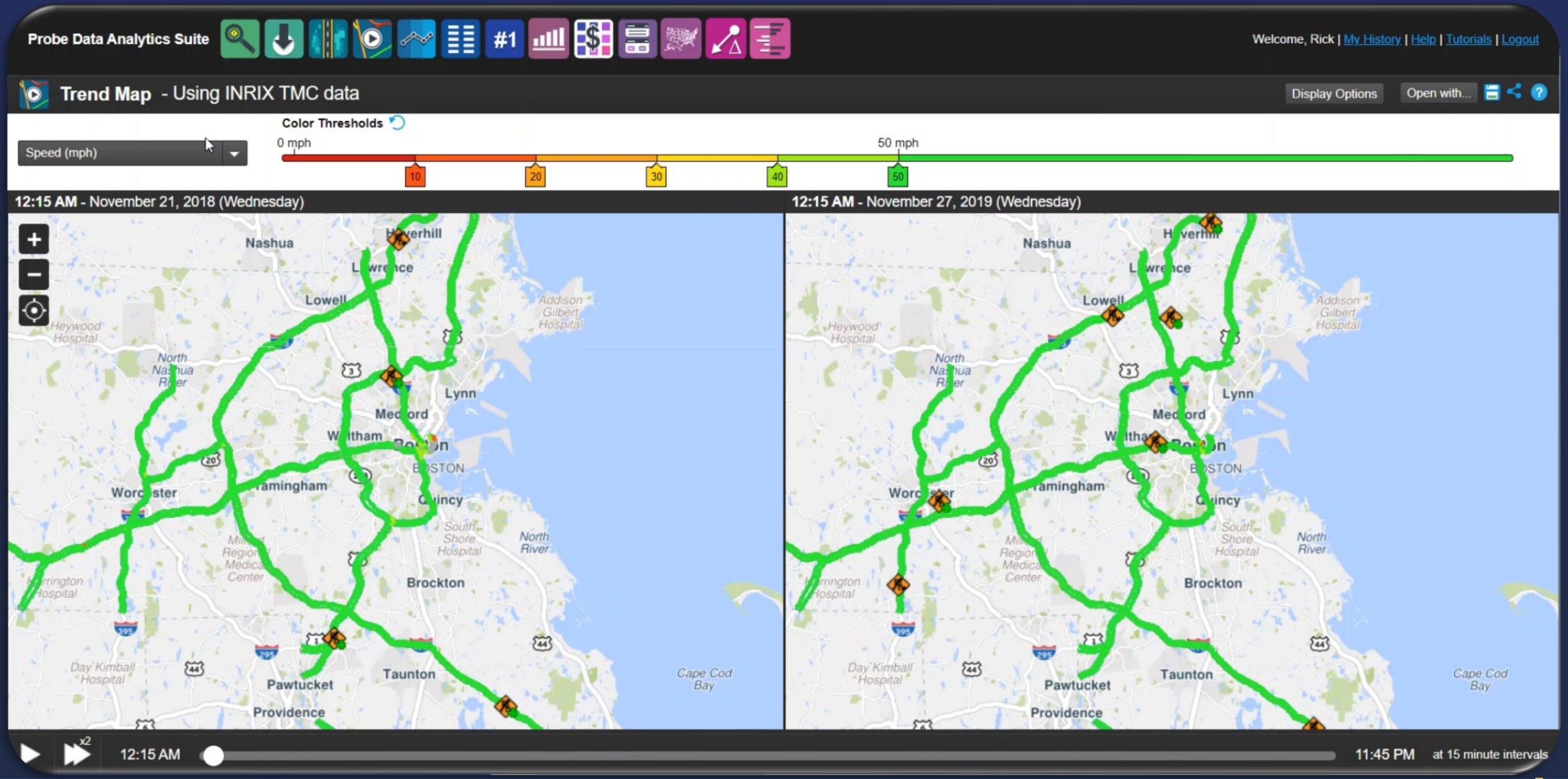

Demo

Trend Maps

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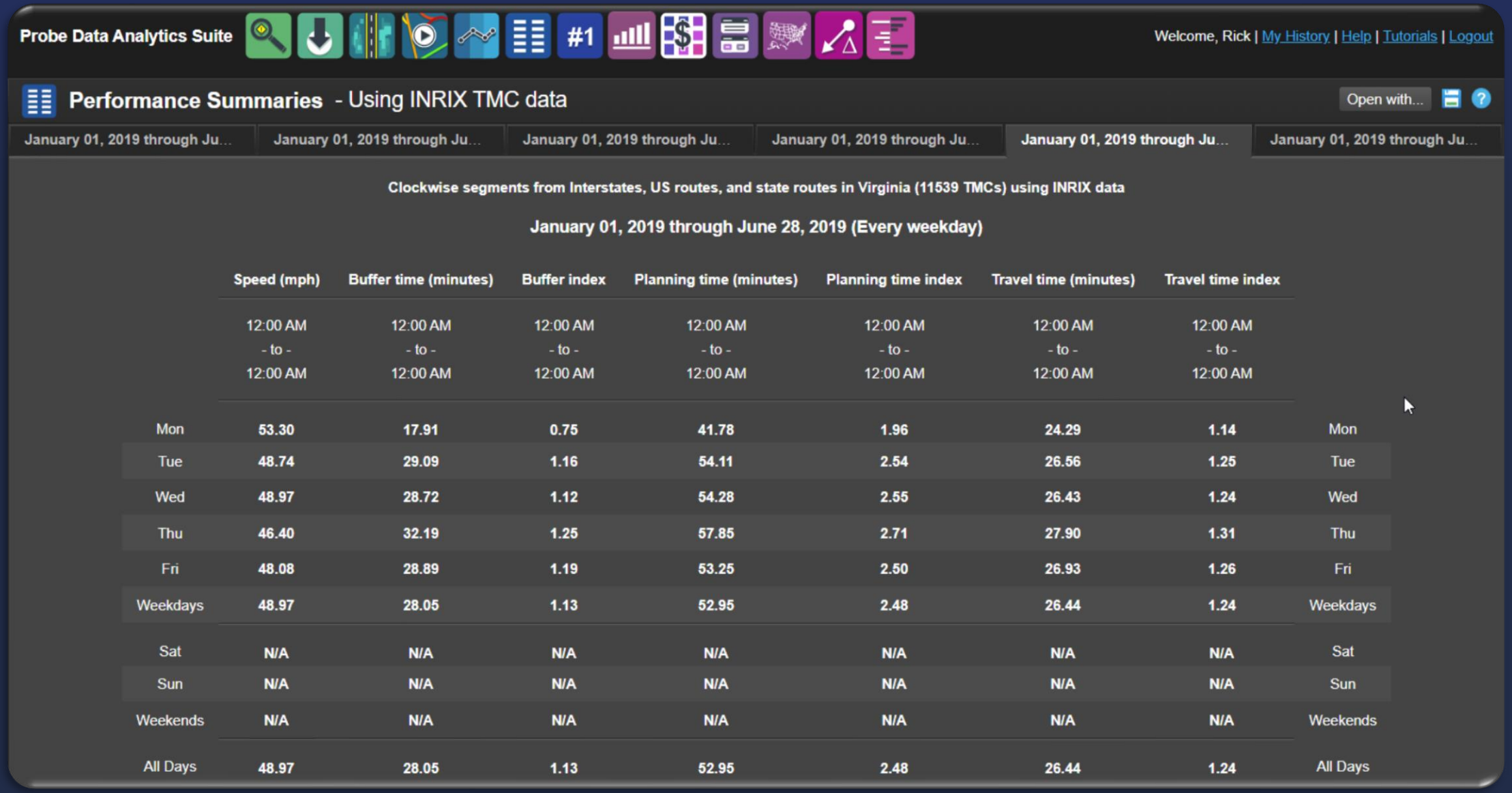
Q1 2022 UDC Report
Q1 2021 UDC Report

Performance Summaries



Clockwise segments from Interstates, US routes, and state routes in Virginia (11539 TMCs) using INRIX data

January 01, 2019 through June 28, 2019 (Every weekday)

	Speed (mph)	Buffer time (minutes)	Buffer index	Planning time (minutes)	Planning time index	Travel time (minutes)	Travel time index	
	12:00 AM - to - 12:00 AM	12:00 AM - to - 12:00 AM	12:00 AM - to - 12:00 AM	12:00 AM - to - 12:00 AM	12:00 AM - to - 12:00 AM	12:00 AM - to - 12:00 AM	12:00 AM - to - 12:00 AM	
Mon	53.30	17.91	0.75	41.78	1.96	24.29	1.14	Mon
Tue	48.74	29.09	1.16	54.11	2.54	26.56	1.25	Tue
Wed	48.97	28.72	1.12	54.28	2.55	26.43	1.24	Wed
Thu	46.40	32.19	1.25	57.85	2.71	27.90	1.31	Thu
Fri	48.08	28.89	1.19	53.25	2.50	26.93	1.26	Fri
Weekdays	48.97	28.05	1.13	52.95	2.48	26.44	1.24	Weekdays
Sat	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sat
Sun	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sun
Weekends	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Weekends
All Days	48.97	28.05	1.13	52.95	2.48	26.44	1.24	All Days

Demo

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Q1 2022 UDC Report
Q1 2021 UDC Report

User Delay Costs (make the case for funding)

Demo

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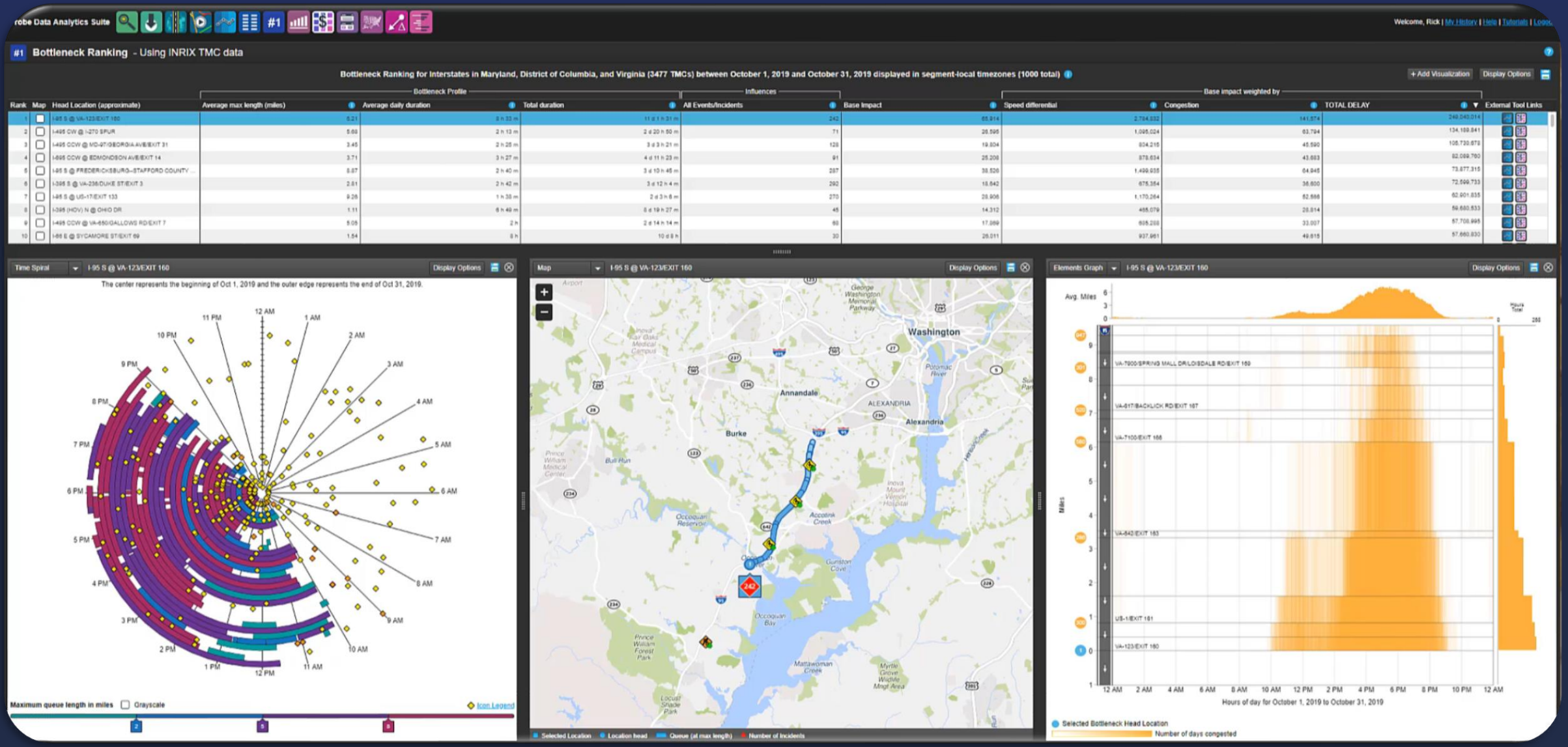
Q1 2022 UDC Report
Q1 2021 UDC Report

Bottleneck Ranking (project prioritization)



Demo

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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?

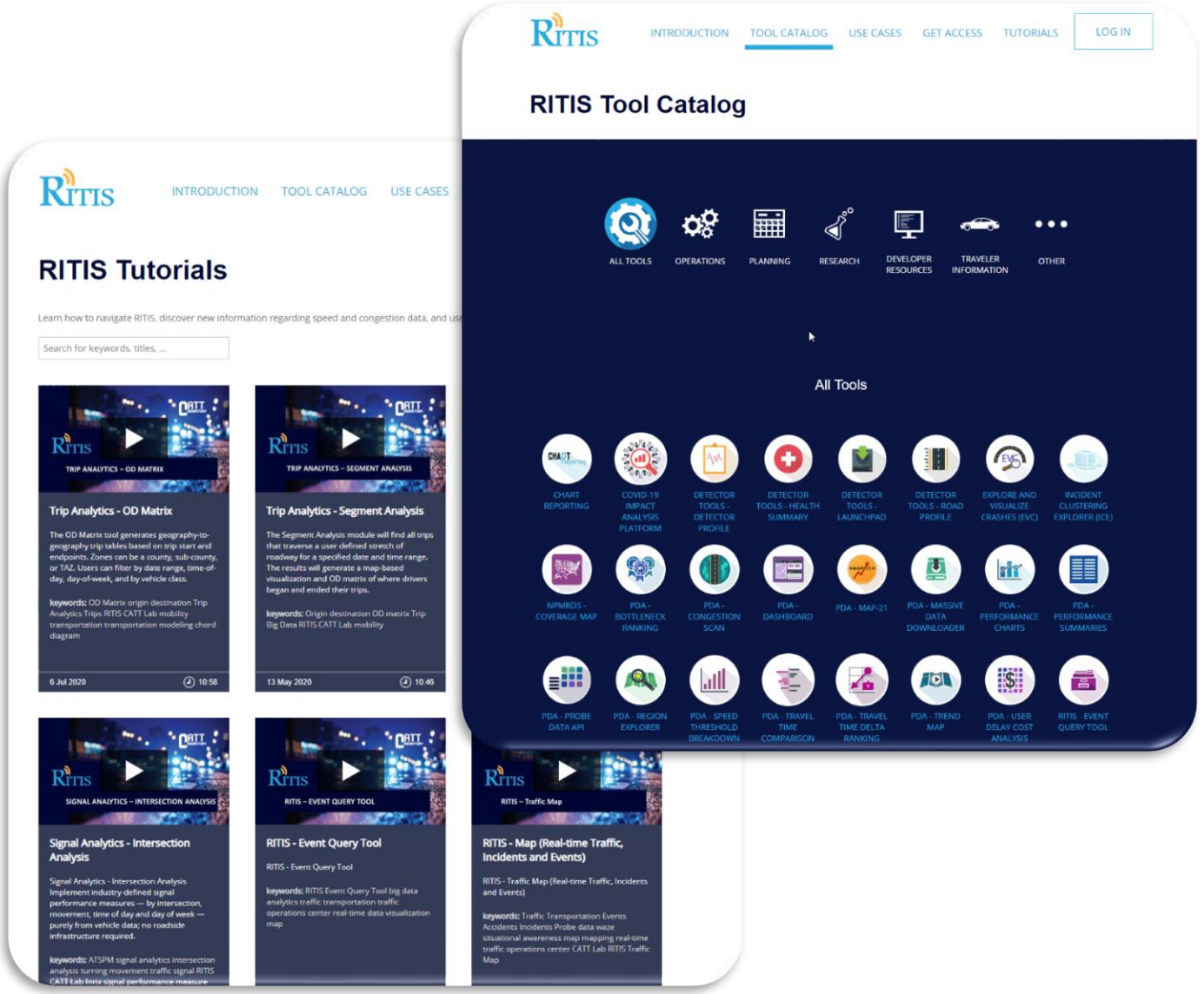
- Yes
- No
- Not sure – Please reach out to me to discuss

Q & A


CATT LABORATORY
RITIS
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

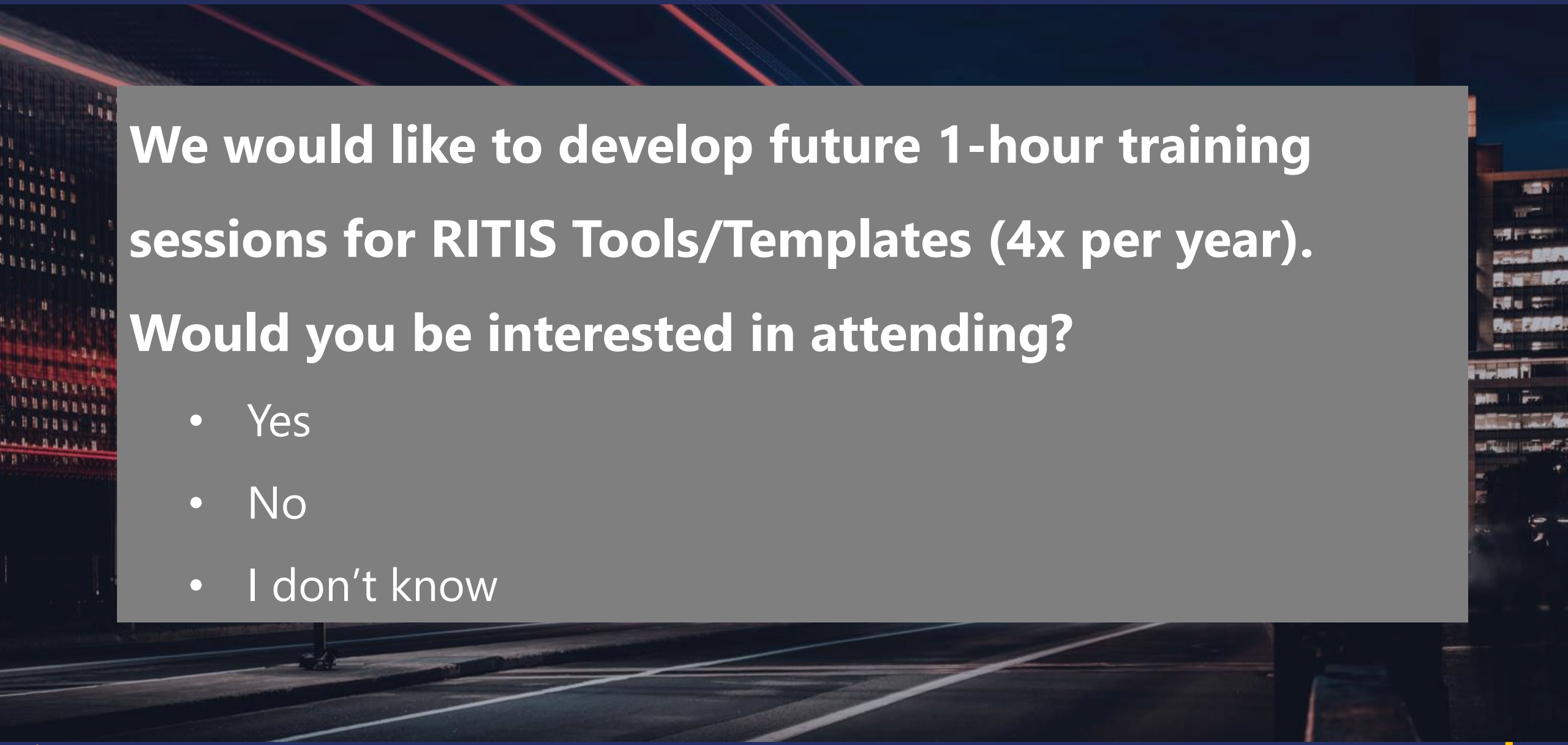
2 - Some value

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?

Denise Markow (TETC)	dmarkow@tetcoalition.org	301.789.9088
Joanna Reagle (Logistics)	jreagle@kmjinc.com	610.228.0760
Michael Pack (CATT Lab)	PackML@umd.edu	
John Allen (CATT Lab)	jallen35@umd.edu	
Rick Ayers (CATT Lab)	rayers@umd.edu	703.989.3221
RITIS Tech Support	support@ritis.org	
PDA Suite Tech Support	pda-support@ritis.org	

Thank you!

CATT LABORATORY

THE EASTERN TRANSPORTATION COALITION

CONNECTING FOR SOLUTIONS