

RITIS User Group

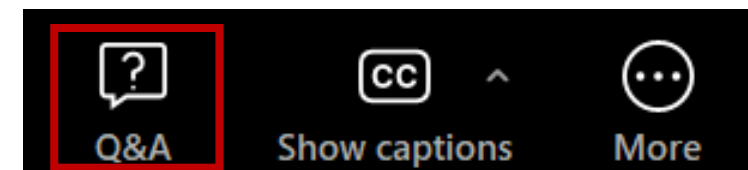
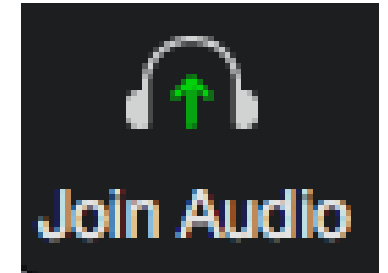
RITIS User Group Web Meeting

October 3, 2024



Welcome!

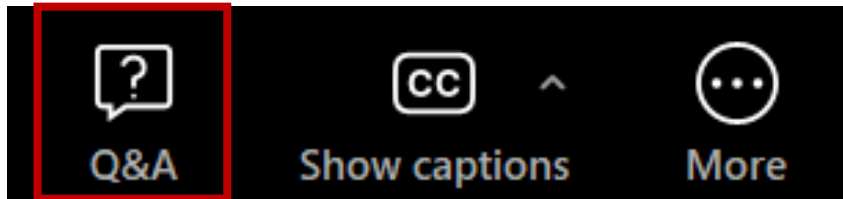
- We are using Zoom **Webinar**
- **AUDIO (Computer):** Use your computer speakers and microphone by clicking the “Join Audio” button at the bottom left of the screen. You will be muted.
- **Alternate Audio (Phone):** Call into the meeting by dialing the phone number based on your location (provided 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)
- Please use the **Q&A box** for questions to the presenters. The **Chatbox** is not available to participants.



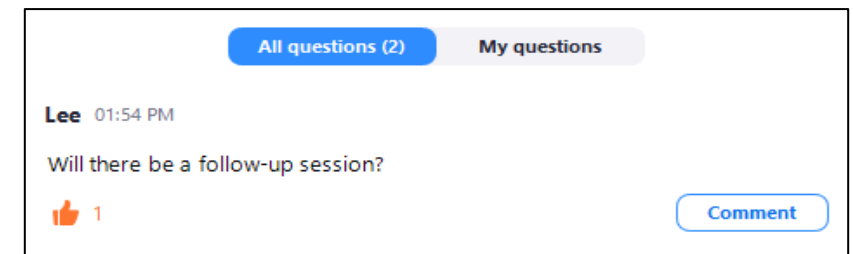
Asking Questions in the Q&A Box



- Click on the Q&A icon at the bottom of your screen



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



Asking Questions Verbally



- Please raise your hand (*click on the hand icon at the bottom of the screen*) and a host will unmute you.



- Please give your name and agency before asking your question
- **Please mute yourself when you are finished speaking**



Upcoming RITIS Events!



Nicole Forest

The Eastern Transportation Coalition
TSMO Program Associate

Event	Date
RITIS User Group Web Meetings	<ul style="list-style-type: none">February 6, 2025May 1, 2025
RITIS Workshop: Using Probe Data Analytics for Congestion Management Process Reports	February 25, 2025

Welcome & Introductions



Jesse Buerk

Manager, Office of Capital Programs

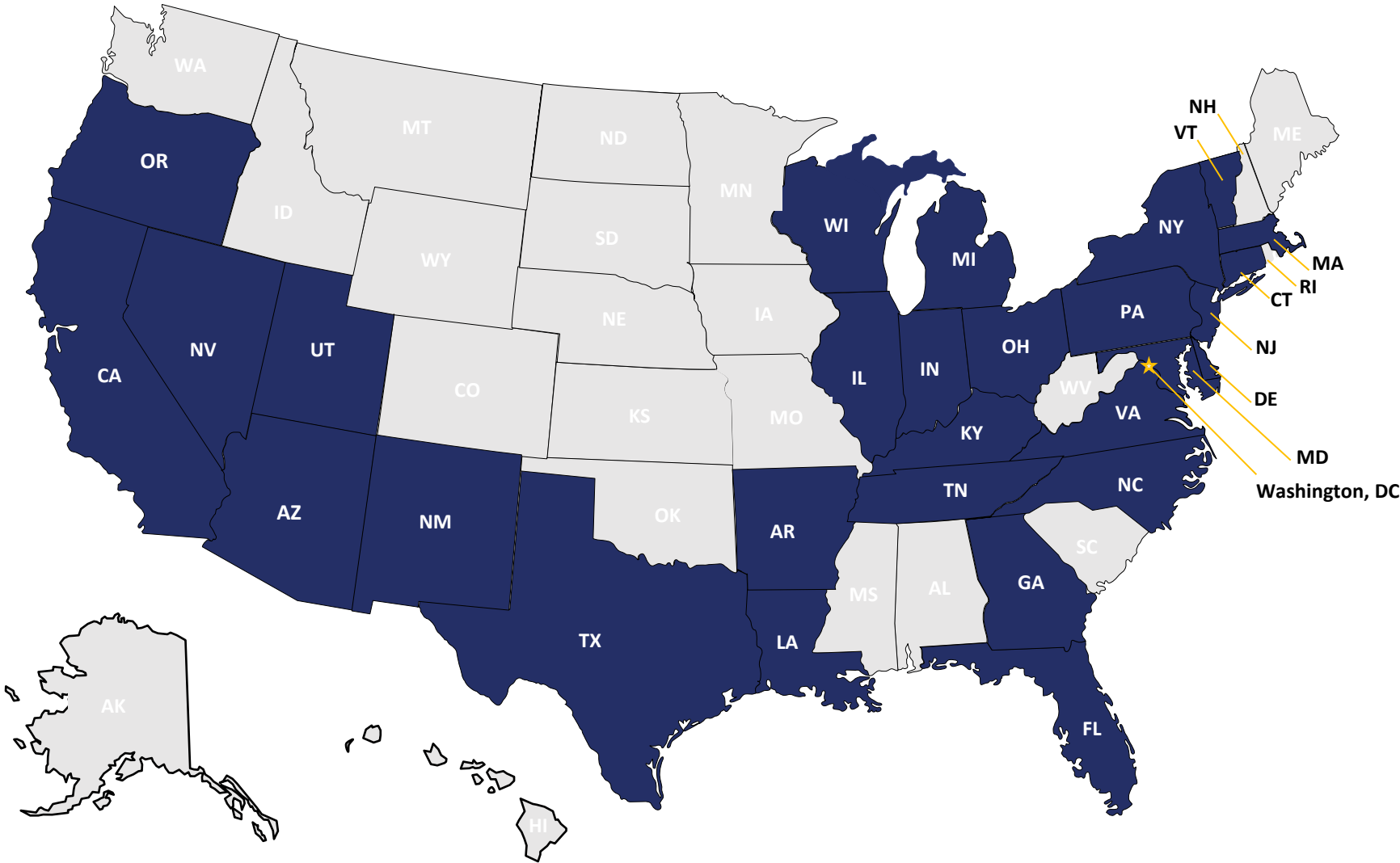
DVRPC

RITIS User Group Co-chair



Welcome to our Meeting Participants

39 States are participating in today's virtual event!



- DOTs
- MPOs
- Transportation Authorities
- Federal Agencies
- Local Agencies
- Universities



Today's Meeting

RITIS Events Update Welcome & Introductions	Nicole Forest, The Eastern Transportation Coalition Jesse Buerk, DVRPC & RITIS User Group Co-chair
Spotlight Presentation: I-24 Smart Corridor: Using RITIS to Build Performance Management Dashboards	Patrick Jacks, Arcadis
Status of Enhancements & Major Updates to RITIS tools	Michael Pack, UMD CATT Lab
RITIS Product Enhancement Working Group Update & Future Enhancements	Bob Frey, Massachusetts DOT RITIS Product Enhancement Working Group chair
User Feedback Session & Wrap Up	Michael Pack & Jesse Buerk

Today's Speakers



Michael Pack
UMD CATT Lab
Director



Patrick Jacks
Arcadis
Management Consultant



Bob Frey
Massachusetts DOT
Director of Project-Oriented Planning

Polls 1, 2, and 3

Poll 1: How often do you attend RITIS User Group Web Meetings?

- a) 1-2 times per year
- b) 3-4 times per year
- c) This is my first meeting

Poll 2: How do you use the data and visualization results from RITIS tools (choose one)?

- 1. We use results directly from RITIS to develop products (reports, maps, etc.)
- 2. We download the data and use our own agency's in-house tools to create tables and visuals for product development
- 3. We do a little bit of both

Poll 3: Who is your primary audience for sharing information that was developed from RITIS and PDA Suite (choose one)?

- 1. Peers
- 2. Management
- 3. Executive Leadership
- 4. Elected Officials
- 5. General Public





I-24 Smart Corridor: Using RITIS to Build Performance Management Dashboards

Patrick Jacks
Management Consultant
Arcadis





TDOT

Department of
Transportation



RITIS User Group Meeting

October 3, 2024

I-24 Smart Corridor

Agenda

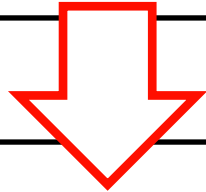
- Mission and Goals
- Project Phases
- Lane Control System (LCS)
- Variable Speed Limits (VSL)
- Project Goals
- RITIS on I-24 SC
 - RITIS KPIs
 - RPA
 - API



Mission & Goals

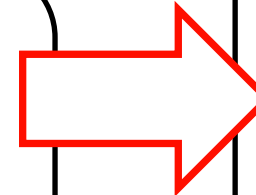
TDOT Mission:

*To provide a **safe and reliable transportation system** that supports economic growth and quality of life.*



I-24 Smart Corridor Mission:

*To improve the **safety and reliability of all travel** along the corridor through the proactive management of intelligent and connected infrastructure, and the formation of strong operational partnerships between local and state agency stakeholders.*



I-24 Smart Corridor Goals:

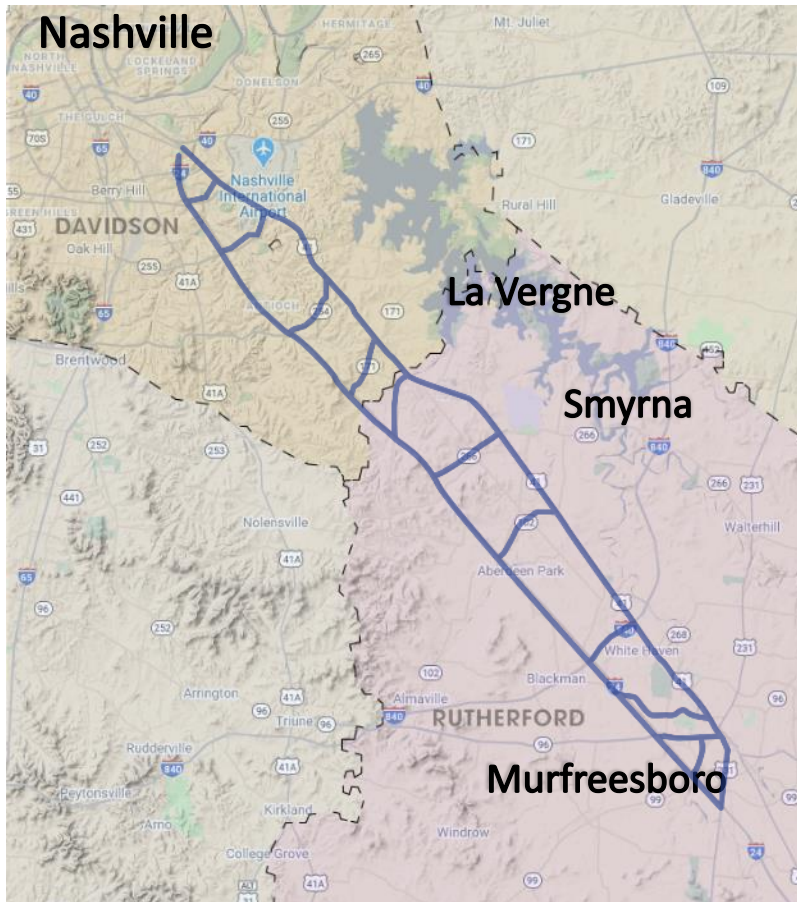
Goal 1: Increase Travel Time Reliability

Goal 2: Increase Mobility of all Modes

Goal 3: Reduce the Concentration of Crashes

Goal 4: Develop Agency Coordination

I-24 SMART Corridor Phase 1



Length: 94 Total Miles (29 Miles along I-24)

Footprint:

- I-24 from I-440 to SR-231
- US 41 from I-24 to SR-231
- Various connector routes

Phase 1

■ **Scope of Work:**

- Interchange ramp improvements along I-24
- Roadside Dynamic Message Signs (DMS) along I-24
- Connected vehicle infrastructure – Dedicated Short Range Communication (DSRC) devices
- Upgraded signal system and signal timing
- Emergency pull-offs along I-24

■ **Let to Contract:** October 2018

■ **Contractor:** Stansell Electric

I-24 SMART Corridor Phase 2

Length: 94 Total Miles (29 Miles along I-24)

Footprint:

- I-24 from I-440 to SR-231
- US 41 from I-24 to SR-231
- Various connector routes

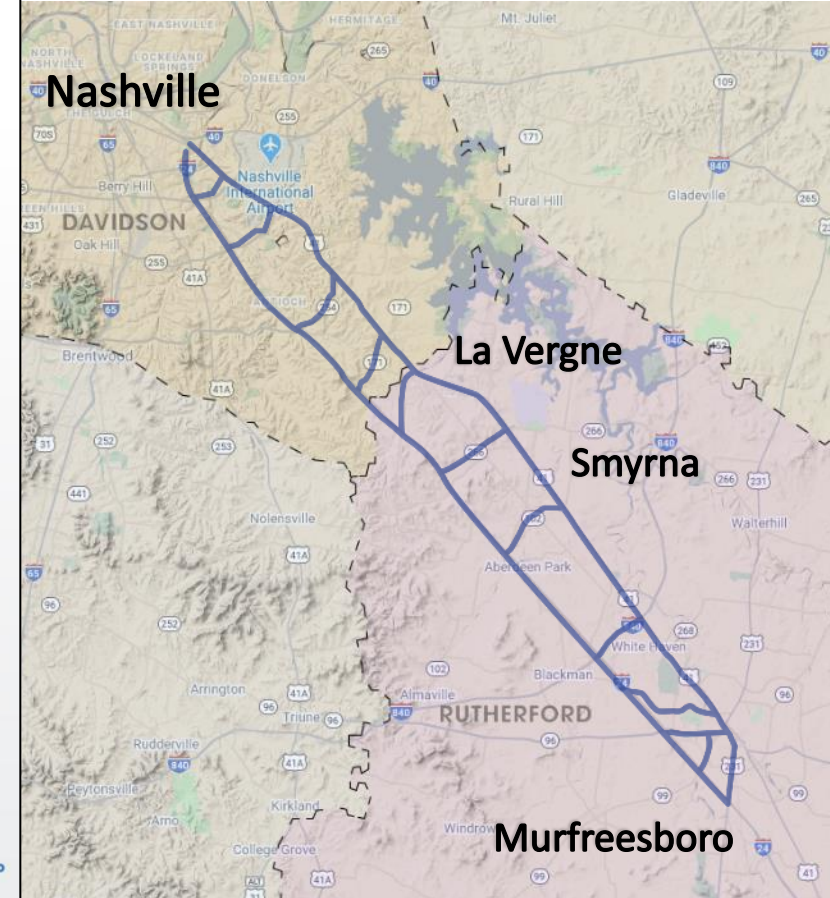
Phase 2

▪ **Scope of Work:**

- Overhead DMS for Active Traffic Management (LCS and VSL) on I-24 between I-440 and SR-102
- Upgraded Interstate Fiber Communications
- Traffic Signal upgrades: radar and video detection
- Implement Active Traffic Management (Arterial & Freeway)

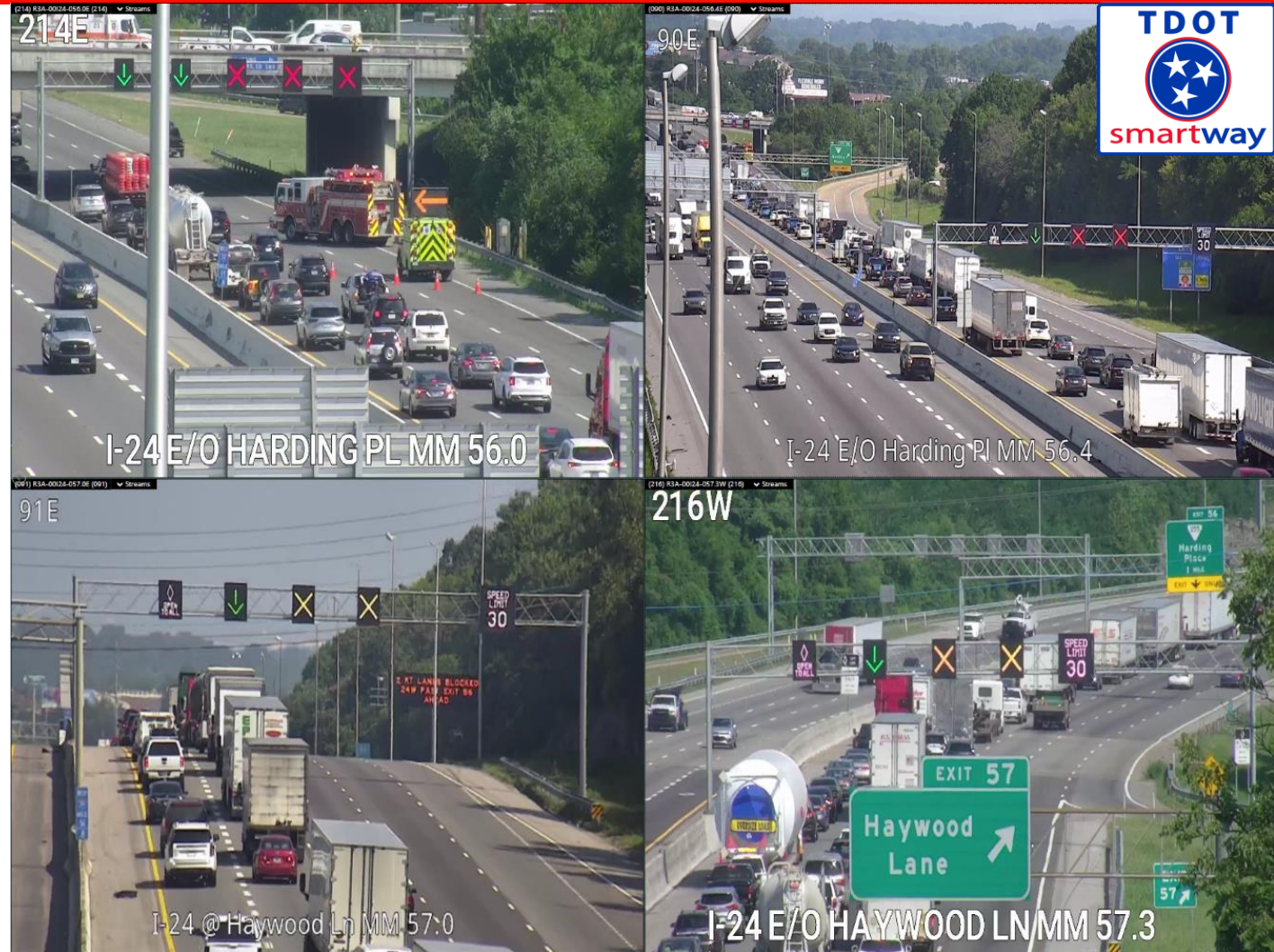
▪ **Let to Contract:** October 2019

▪ **Contractor:** Stansell Electric



Lane Control System (LCS)

- Compliance with Red and Yellow X and Green Arrow
- Active Lane Management
- Maintain Traffic Flow around traffic incident
- Reduce Driver Frustration
- Buffer Zone for First Responders
- Improved Incident Clearance Time
- Reduced Delay



Variable Speed Limits (VSL)

- Regulatory not Advisory Speed Limit
- Advance Warning of Recurring and Non-Recurring Congestion
- Speed Harmonization
- Slow is Smooth, Smooth is Fast
- Work Zone Safety



Project Goals

- TDOT Community Relations Division developed a campaign to share information with the public.
- **Goals:**
 - **Increase Safety**
 - Reduce Secondary Crashes due to incidents occurring in the congestion.
 - **Increase Travel Time Reliability**
 - Standardize the commute time.



The poster features a dark blue header with the I-24 Smart Corridor logo and the word "GOALS" in large white letters. Below the header, a red background contains the slogan "We want to make your travel better!" in a cursive font. The main heading "Increased Safety & Travel Time Reliability" is in bold white text. A dark blue rounded rectangle lists two bullet points: "Reducing secondary crashes due to incidents or traffic jams." and "Helping your commute take the same length of time each time you travel." The bottom left corner has the TN TDOT logo, and the bottom right corner has a QR code.

24 smart CORRIDOR GOALS

We want to make your travel better!

Increased Safety & Travel Time Reliability

The I-24 Smart Corridor helps in...

- Reducing secondary crashes due to incidents or traffic jams.
- Helping your commute take the same length of time each time you travel.

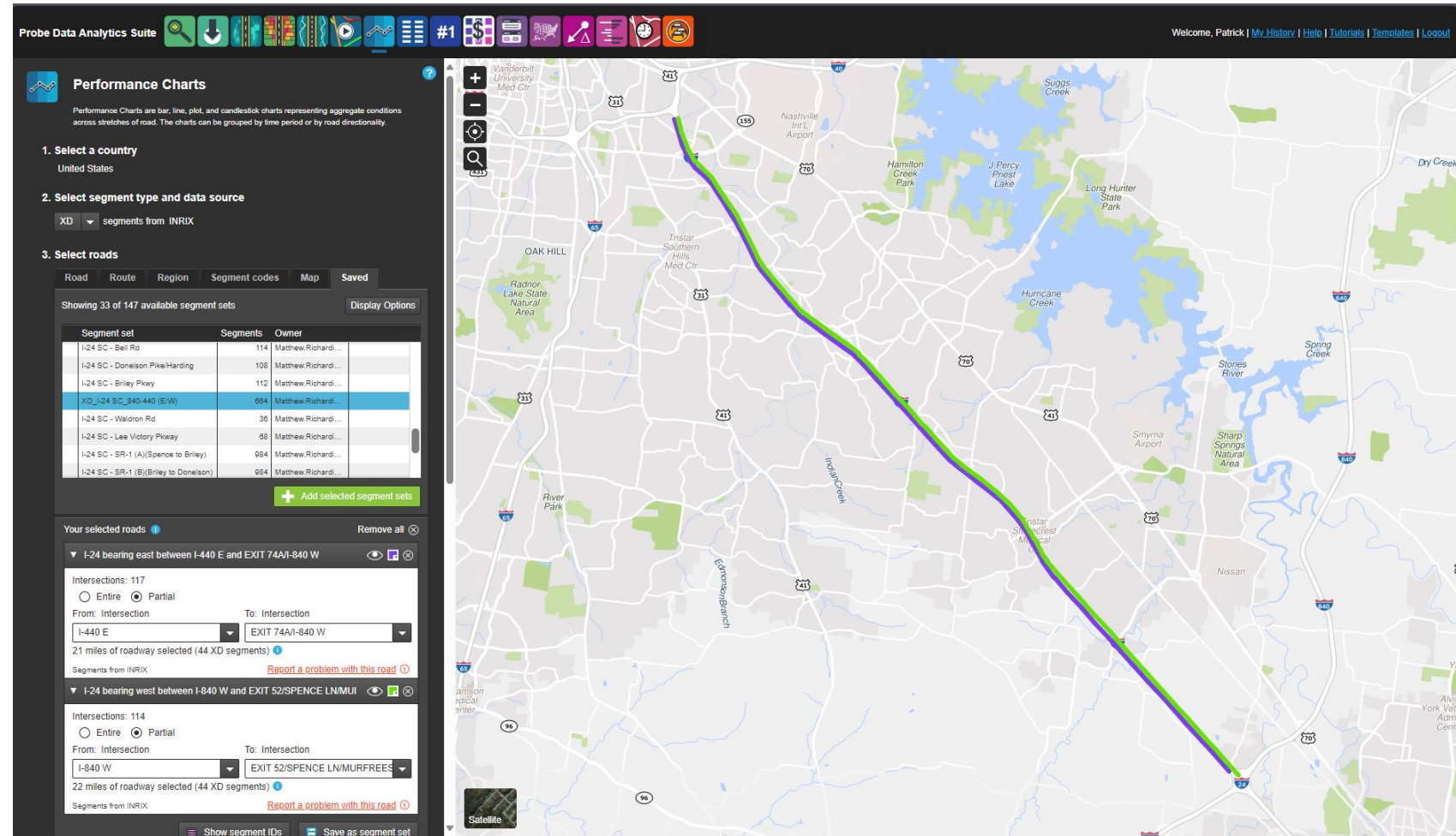
TN TDOT Department of Transportation



RITIS for I-24 SC

- RITIS is used to capture key performance metrics such as:

- Travel Time
- Travel Time Index
- Planning Time
- Planning Time Index
- Buffer Time Index
- Speed
- User Delay



RITIS for I-24 SC

Utilizing tools from the **RITIS PDA Suite** makes it **easy** to **capture critical information** about the **corridor's health**.



MASSIVE DATA DOWNLOADER

Download raw probe data from our archive for offline analysis.

[Tutorial](#) [Help](#) [History](#)



PERFORMANCE CHARTS

Chart performance metrics over time.

[Tutorial](#) [Help](#) [History](#)



PERFORMANCE SUMMARIES

Report on Buffer Time Index, Planning Time Index, and other performance metrics.

[Tutorial](#) [Help](#) [History](#)

RITIS for I-24 SC

The **I-24 SC** team can keep a **holistic view** of the project by integrating **RITIS data**, crash data, maintenance data, and event monitoring data into a **dashboard**.



RITIS for I-24 SC

I-24 SC team started using RPA (Robotic Process Automation) to automate monthly data extractions from RITIS.

Free RITIS 101 training webinar 10am EDT Friday, September 27. Click for info & register: <https://matoc.org/events/092724rits101/>

Welcome Patrick Jacks!

Applied Filters: Data Source is equal to TDOT.

State	Source	Location	Type	Updated	Start Time	Lane Status	Event Details
TN	TDOT	State Route 111 north @ MM 4.000	Obstructions	3 mins ago	09/26/24 08:58 PM	North	• (Data) THP Incident reported EventVoe
TN	TDOT	State Route 299 west @ MM 0.000	Collision	3 mins ago	09/26/24 05:12 PM	North	• (Data) THP Incident reported THP ID:
TN	TDOT	Interstate 24 east @ MM 48.200	Collision	5 mins ago	09/26/24 05:27 PM	North	• (Data) Waze Event reported: Waze ID:
TN	TDOT	State Route 63 south @ MM 0.000	Collision	6 mins ago	09/26/24 05:53 PM	South	• (Data) THP Incident reported EventVoe:
TN	TDOT	Interstate 40 east @ MM 387.000	Disabled Vehicle	6 mins ago	09/26/24 05:53 PM	East	• (Operator) Green SUV (J11742):
TN	TDOT	Interstate 75 north @ MM 1.000	Weather Condition	13 mins ago	09/26/24 03:09 PM	North	• R2F-0075-042.55 (17)34.dms.dms.Region
TN	TDOT	Interstate 40 west @ MM 220.000	Collision	14 mins ago	09/26/24 05:39 PM	West	• (Data) Waze Event reported: Waze ID:
TN	TDOT	Interstate 75 north @ MM 35.000	Collision	14 mins ago	09/26/24 05:44 PM	North	• (Data) THP Incident reported EventVoe:
TN	TDOT	State Route 39 east @ MM 3.000	Roadwork	15 mins ago	09/26/24 01:55 PM	East	• One responder on scene • (Operator) CALLER
TN	TDOT	Interstate 24 east @ MM 55.800	Disabled Vehicle	16 mins ago	09/26/24 02:55 PM	East	• One responder on scene • (Operator) STATES
TN	TDOT	Interstate 40 east @ MM 350.000	Traffic Congestion	16 mins ago	09/26/24 05:26 PM	East	• RDANE on Interstate 40 Eastbound. At EXIT
TN	TDOT	Interstate 40 east @ MM 352.000	Collision	16 mins ago	09/26/24 05:37 PM	East	• One responder on scene • (Operator) THP
TN	TDOT	Interstate 640 west @ MM 5.800	Traffic Congestion	18 mins ago	09/26/24 02:39 PM	West	• KNOX on Interstate 640 Westbound. Before
TN	TDOT	Interstate 65 north @ MM 91.800	Collision	18 mins ago	09/26/24 05:32 PM	North	• (Data) Waze Event reported: Waze ID:
TN	TDOT	Interstate 640 east @ MM 0.400	Traffic Congestion	23 mins ago	09/26/24 11:17 AM	East	• KNOX on Interstate 640 Eastbound. Before
TN	TDOT	Interstate 275 north @ MM 2.800	Disabled Vehicle	23 mins ago	09/26/24 04:59 PM	North	• (Operator) 2nd vehicle on scene in 11809i
TN	TDOT	Interstate 65 north @ MM 81.800	Disabled Vehicle	25 mins ago	09/26/24 05:27 PM	North	• (Operator) Unknown Issue (ic1268)
TN	TDOT	Interstate 40 east @ MM 212.000	Collision	27 mins ago	09/26/24 05:35 PM	East	• minor • DAVIDSON on

1 - 83 incidents (of 83 incidents)

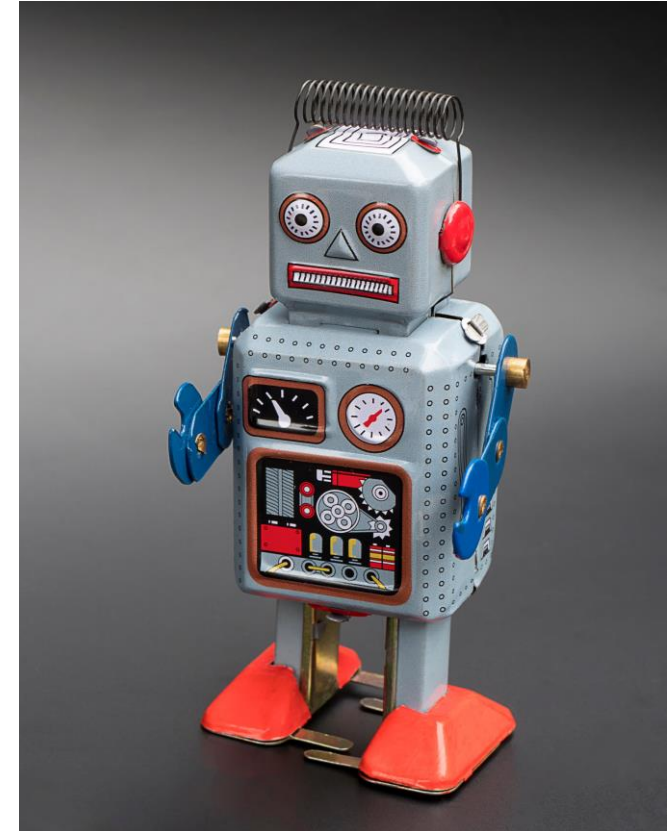
© 2008 - 2024 University of Maryland CATT Lab | [Contact Us](#) | [Release Notes](#)

Last Updated: 09/26/2024 - 6:02 PM

RITIS for I-24 SC

What is RPA?

Robotic Process Automation is use of software bots to automate repetitive, rule-based tasks across various applications, improving efficiency and accuracy in workflows.



RITIS for I-24 SC

What is RPA?

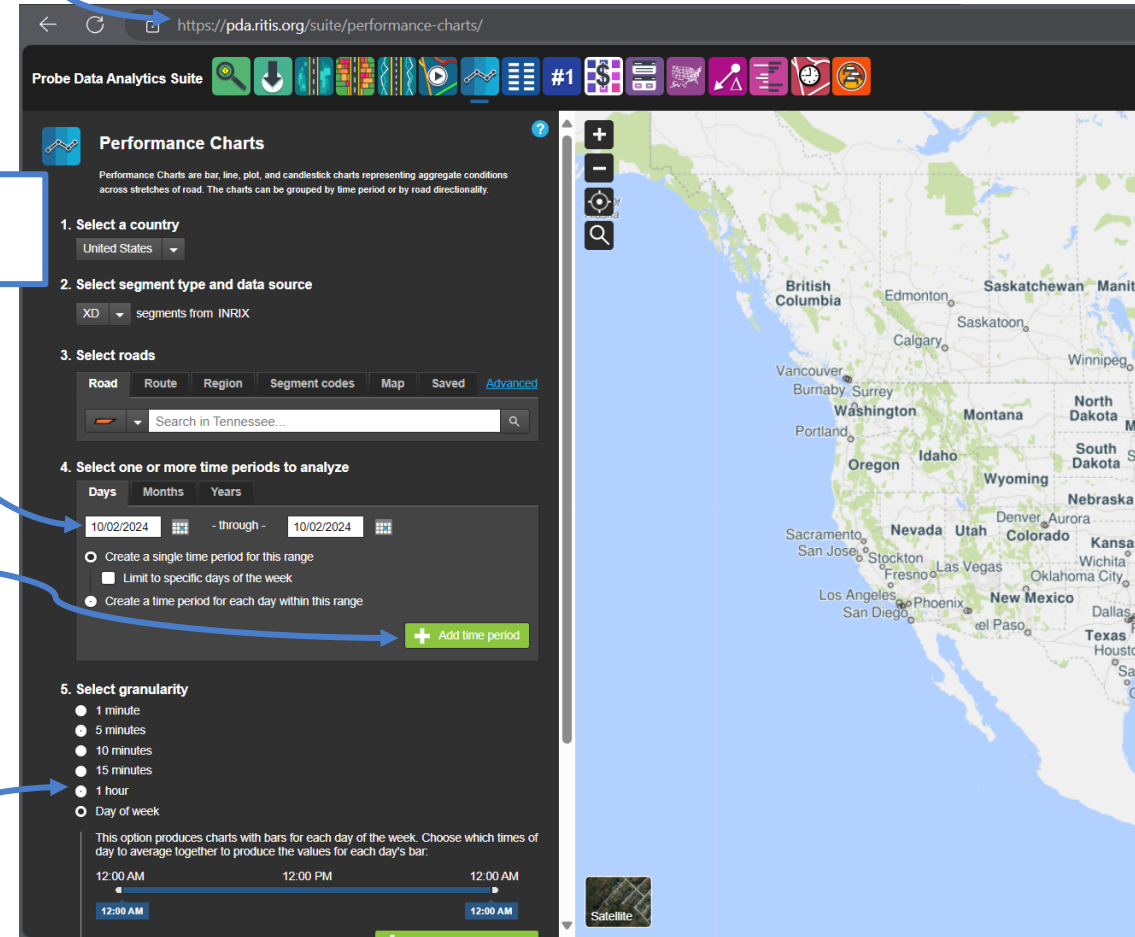
RPA uses rules to point to specific User Interface elements on the application to execute specific tasks.

Populate text box Id '1234' with <https://pda.ritis.org/suite/performance-charts>
Send keystroke '{Return}' to foreground

Wait 2 seconds
Send Left Click event at {x:386, y:251} Screen1

Send Left Click event at element div title 'Add time period'

Send Left Click event at element div is '5432'



RITIS for I-24 SC

RPA can...

Save

20% to 50%

of the time spent on repetitive, manual tasks, depending on the complexity and volume of the processes being automated

Without RPA	With RPA
12 Routes	12 Routes
2 Resources	0 Resources
1.5 Hours	6 Minutes
During Peak Hours	During Off Peak Hours

Now the **I-24 SC** team is utilizing the **RITIS API** to pull **Massive Data Downloader** reports as well as **Performance Metrics** reports to further **streamline** the data compilation process.



Expand / Collapse All

Probe Data Analytics API 2.5.1 OAS3

Version

PDA API released September 11, 2024

Introduction

Welcome to the RITIS Probe Data Analytics (PDA) Application Programming Interface (API). This API allows authorized users to submit queries via protocols instead of the web-based PDA interface.

The PDA API provides three major functions:

1. **Segment Search:** Resolving geographic and road designations into specific TMCs for submitting job requests.
2. **Bottleneck data requests:** Submitting queries to identify road clusters of road segments containing the most significant congestion (recurse).
3. **Job submission and result retrieval:** Submitting queries to obtain raw aggregated probe data, performance metrics, or user delay costs.

Background

APIs are very technical interfaces intended to be used by those with a software development background. If you are unfamiliar with APIs in general and uses, including several practical examples:

- <https://www.freecodecamp.org/news/apis-for-beginners-full-course/> (video; 2:20:32)
This video covers everything about APIs, starting with 'what are they' through building interactions with services like Spotify and Twilio, GitHub, and more.

If you have some familiarity with programming using APIs and just need a refresher on the data format used to send and receive information, you can check out:

- <https://www.w3resource.com/JSON/introduction.php> (web page)
There is good general coverage of JSON on the first page, and if you want deeper coverage you can learn more in the later pages of this site.

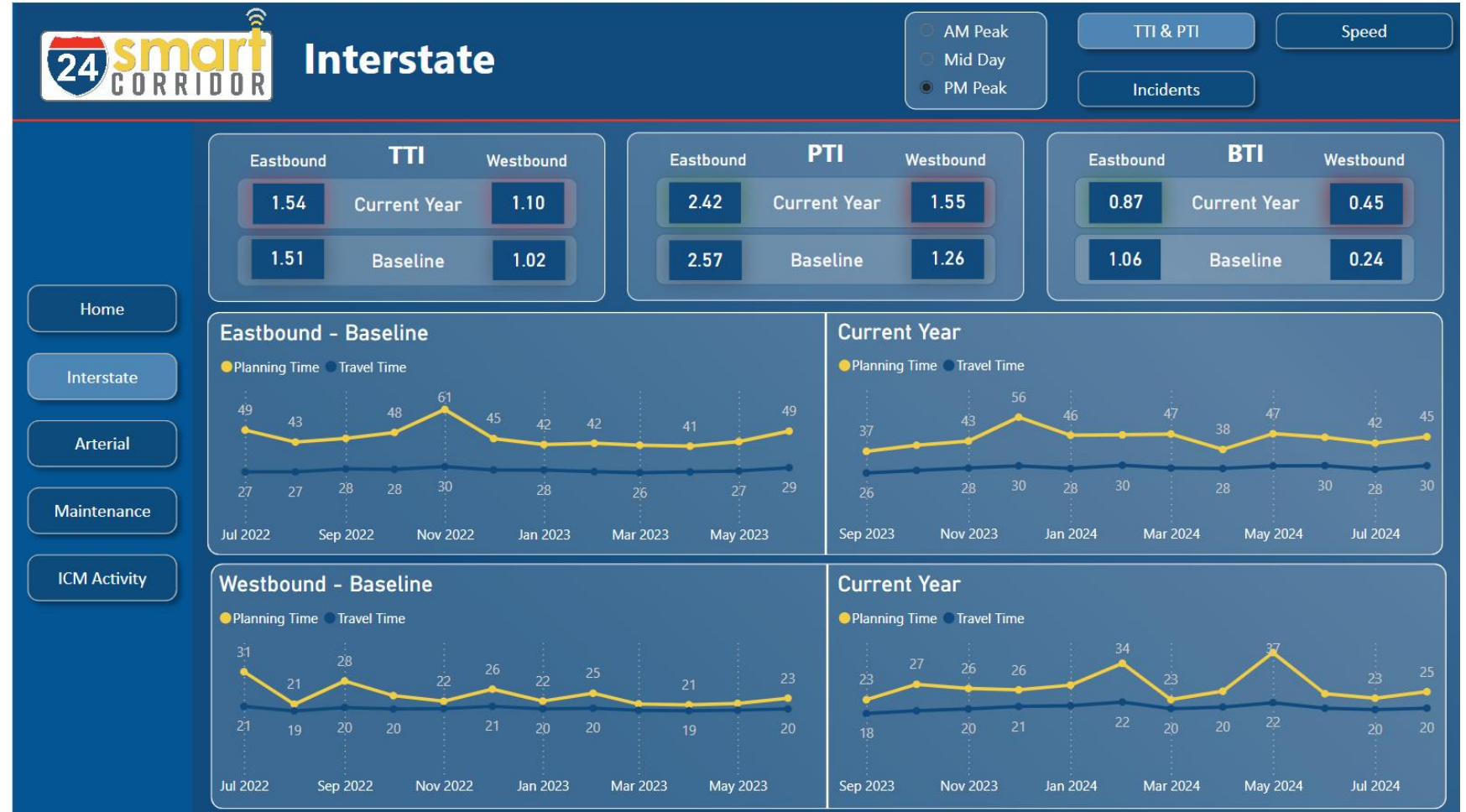
Most PDA API users use Python or Java or another programming language to automate their requests. While GET requests consist of a single query parameter using precise syntax. Many API users use a specialized API Interaction tool to draft their API requests, then use modified versions of curl with a free tier that enables you to create, edit, and review API submissions and responses using GET and POST. Postman is a full-featured system you install and use Postman and Insomnia for both GET and POST requests:

- <https://docs.insomnia.rest/insomnia/get-started> (web page)
- <https://learning.postman.com/docs/getting-started/overview/> (web page)

```
1 # Import necessary libraries
2 from datetime import datetime, timedelta
3
4 # Sample data representing travel time records
5 travel_data = [
6     {'id_number': 581, 'tdot_segment': 'I-40', 'start_time': '2024-09-25 08:00', 'end_time': '2024-09-25 08:45'},
7     {'id_number': 582, 'tdot_segment': 'I-40', 'start_time': '2024-09-25 09:00', 'end_time': '2024-09-25 09:30'},
8     {'id_number': 243, 'tdot_segment': 'I-24', 'start_time': '2024-09-25 10:00', 'end_time': '2024-09-25 10:30'},
9 ]
10
11 # Function to calculate travel time in minutes
12 def calculate_travel_time(start_time, end_time):
13     start = datetime.strptime(start_time, '%Y-%m-%d %H:%M')
14     end = datetime.strptime(end_time, '%Y-%m-%d %H:%M')
15     travel_time = (end - start).total_seconds() / 60 # Convert seconds to minutes
16     return travel_time
17
18 # Function to process travel data and return a summary
19 def process_travel_data(travel_data):
20     summary = {}
21
22     for record in travel_data:
23         id_number = record['id_number']
24         tdot_segment = record['tdot_segment']
25         start_time = record['start_time']
26         end_time = record['end_time']
27
28         # Calculate travel time for each record
29         travel_time = calculate_travel_time(start_time, end_time)
30
31     # Store the processed data in a summary list
32     summary.append({
33         "ID Number": id_number,
34         "TDOT Segment": tdot_segment,
35         "Travel Time (minutes)": travel_time
36     })
37
38     return summary
39
40 # Get the processed travel data
41 travel_summary = process_travel_data(travel_data)
42
43 # Display the summary in a clean format
44 def display_summary(summary):
45     print("\nID Number: <id> | TDOT Segment: <id> | Travel Time (minutes): <id>")
46     print("-" * 45)
47     for record in summary:
48         print(f"{record['ID Number']}<id> | {record['TDOT Segment']}<id> | {record['Travel Time (minutes)']}<id>")
49
50 # Run the display function to show the travel summary
51 display_summary(travel_summary)
52
```

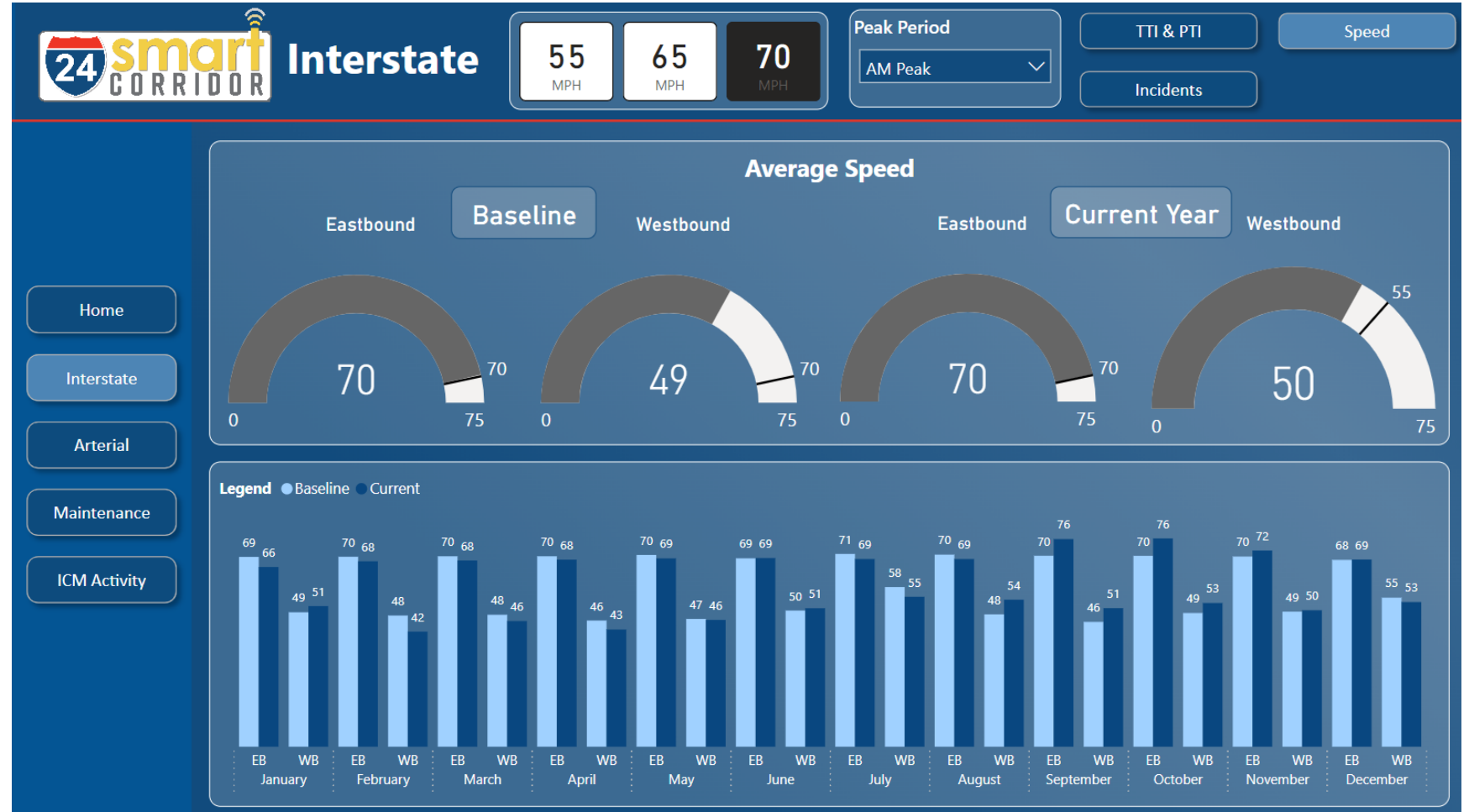
RITIS for I-24 SC

I-24 SC Dashboard



RITIS for I-24 SC

I-24 SC Dashboard



What's next?

Who's next?



Lee Smith, TDOT Traffic Operations Division, Technical & Program Advisor
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Amy Bailey, TDOT Traffic Operations Division, TSMO Manager
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Matt Richardi, Arcadis, I-24 SC ICM Coordinator
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Patrick Jacks, Arcadis, I-24 SC ICM Digital Lead
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Thank You!





RITIS Product Enhancement Working Group Update & Future Enhancements



Michael Pack
Director
UMD CATT Lab



Bob Frey
Director of Project-Oriented Planning
Massachusetts DOT
RITIS Product Enhancement Working Group Chair

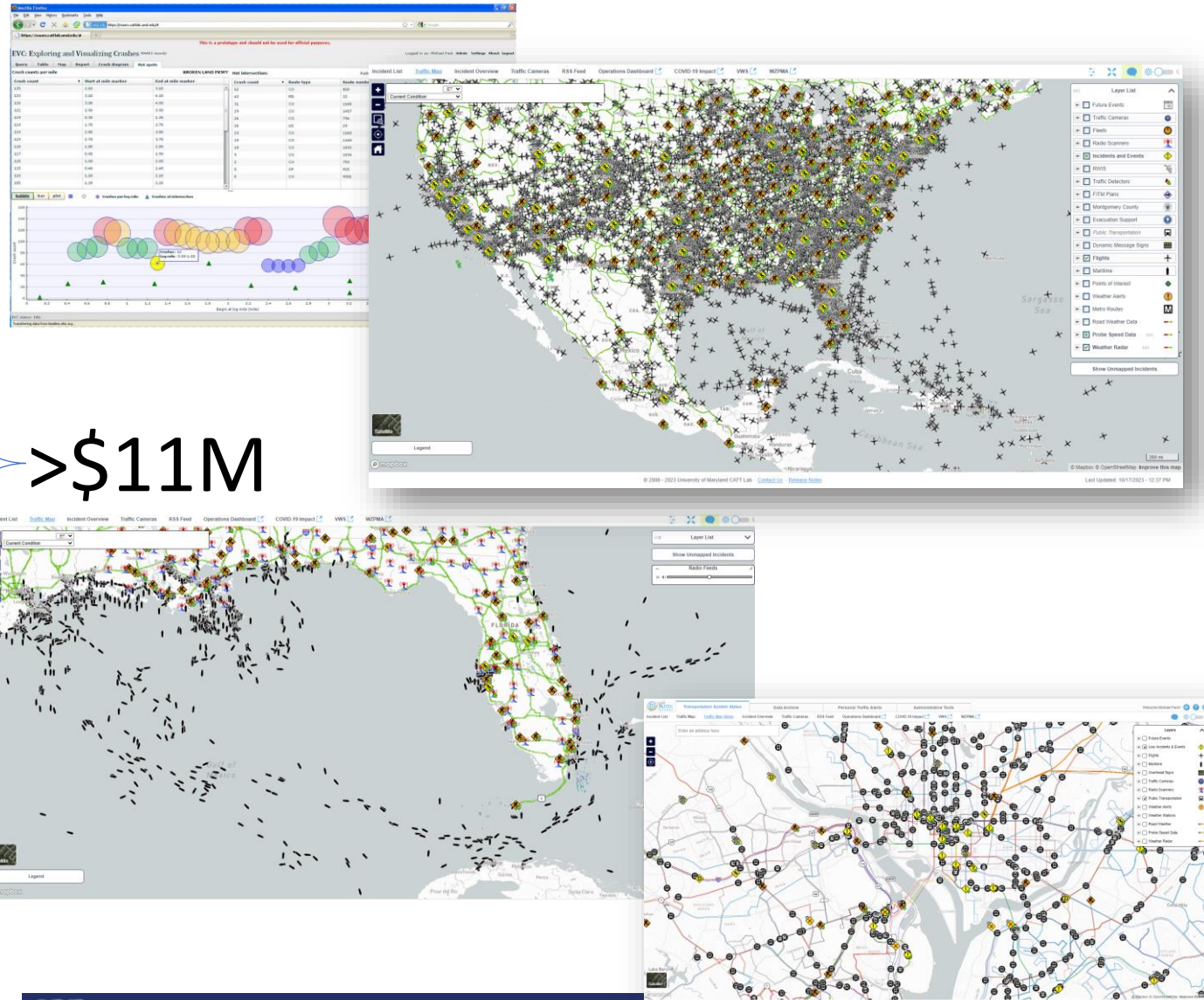
Things funded in the past

- Causes of Congestion
- Waze Enhancements
- Aerial Photography/Satellite view
- Speed tile layer options
- Road weather tiles
- Map Search
- Advanced Road Selection/routing in XDs
- Sharing of Dashboards
- Speed Bins Visualization
- Corridor Speed Graphs
- User Delay Cost
- Reporting Templates
- Signal Analytics
- Trip Analytics
- Travel Time Comparison
- Travel Time Delta Ranking
- Many, many more



Things currently funded (outside of our group)

- Safety Analytics
- Custom percentiles
- Detour Analytics
- Maritime Traffic Integration
- Air Traffic Integration
- Mapping Modernization
- Real-time Transit scalability
- Trip Analytics Speed & Scalability
- Signal Analytics
- Energy Analytics (Partial)
- RITIS Tracker



Costs & Review of Features

Item	Estimated Cost	Notes
→ XD API Enhancements	\$20k	Top pick. In dev.
Safety Analytics	\$250k	Mostly funded.
→ Business use-case handbook	\$15k	Top pick.
Automated Work Zone Reporting	\$395k	Top pick. Scoping and design complete.
→ Mirror XD Selections + TMC Routing	\$22k	Top pick.
→ Downloadable Volumes	\$35k	Top pick.
Embedding Dashboards	\$350k	Well defined
Advanced Time Selections	\$245k	Well defined
AAR Queue Visualizations in EQT	TBD	
ROI Tool	TBD	Exploratory funding from a grant
PM3 Target Setting Support Tools	TBD	Needs more design. \$\$
Detour Analytics for disruptions	\$\$\$	Partially funded by grant
XD Bottlenecks	\$580k	High value, but long lead-time
→ Weather Overlays in Congestion Scans	\$68k	Low-hanging fruit. Partial funding available.
XD in UDC Tool	\$47k	
Energy & Emissions Analytics	\$135k	Significant work already complete.

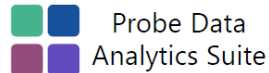

\$92k

~\$40k

Status of Enhancements

- RITIS Best Practices
 - Added to the tutorials page

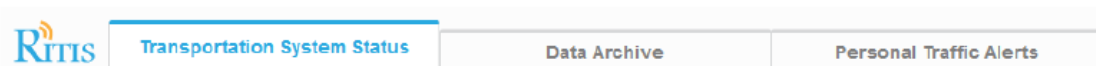
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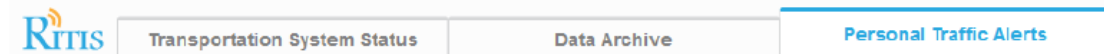
The RITIS Suite of Tools

The RITIS platform is equipped with an ever-growing suite of tools to help agencies operate their transportation network more efficiently in real time and to evaluate transportation performance over the long haul. These tools are used by transportation planners and operators alike to gather and visualize the information they need to improve decision-making. Listed below are tools commonly available in RITIS. *Some of these tools require additional data subscriptions, so you might not see all tools listed in your instance of RITIS.*



Transportation System Status: See real-time conditions on roadways

Incident List	A sortable list of incidents in your area, updated once per minute. Can be filtered on incident type and severity options that you choose.
Traffic Map	A traffic map showing real time traffic congestion, incidents, weather, and other critical information to help you monitor incident response in your area.
Incident Overview	A hybrid list/map view focused on active incidents.
Traffic Cameras	A camera-centric portal to select and view live CCTV traffic cameras in your area.
WZPMA	The Work Zone Performance Monitoring Application, which provides recent performance information on active work zones. <i>(Currently in beta).</i>



Personal Traffic Alerts: Receive messages when incidents or slowdowns occur.

View Current Subscriptions	View and edit your current list of personal traffic alert subscriptions
Subscribe to a New Incident Alert	Create a new incident alert subscription and receive a message when incidents occur in your area that meet your pre-defined criteria.
Subscribe to a New Speed Alert	Create a new speed alert subscription and receive a message when speeds on roads in your area slow to meet your pre-defined criteria.



Data Archive: Explore recent and historical data for trends and insights.

Event Query Tool	Search for individual incidents or generate reports showing the number and location of incidents across your area.
Detector Tools	Download and analyze traffic detector data from across your area and identify issues with detector health.
Probe Data Analytics	A comprehensive data visualization platform dedicated to gaining transportation insights from historical probe vehicle data from third-party providers.
NPMRDS Analytics	A more limited version of the Probe Data Analytics suite, using data from the National Performance Monitoring Research Data Set (NPMRDS).
Signal Analytics	Monitor the performance of traffic signals using trajectory-based probe data. <i>Separate data subscription required.</i>
Trip Analytics	Generate origin-destination analysis and route-based trip analysis using trajectory-based probe data. <i>Separate data subscription required.</i>



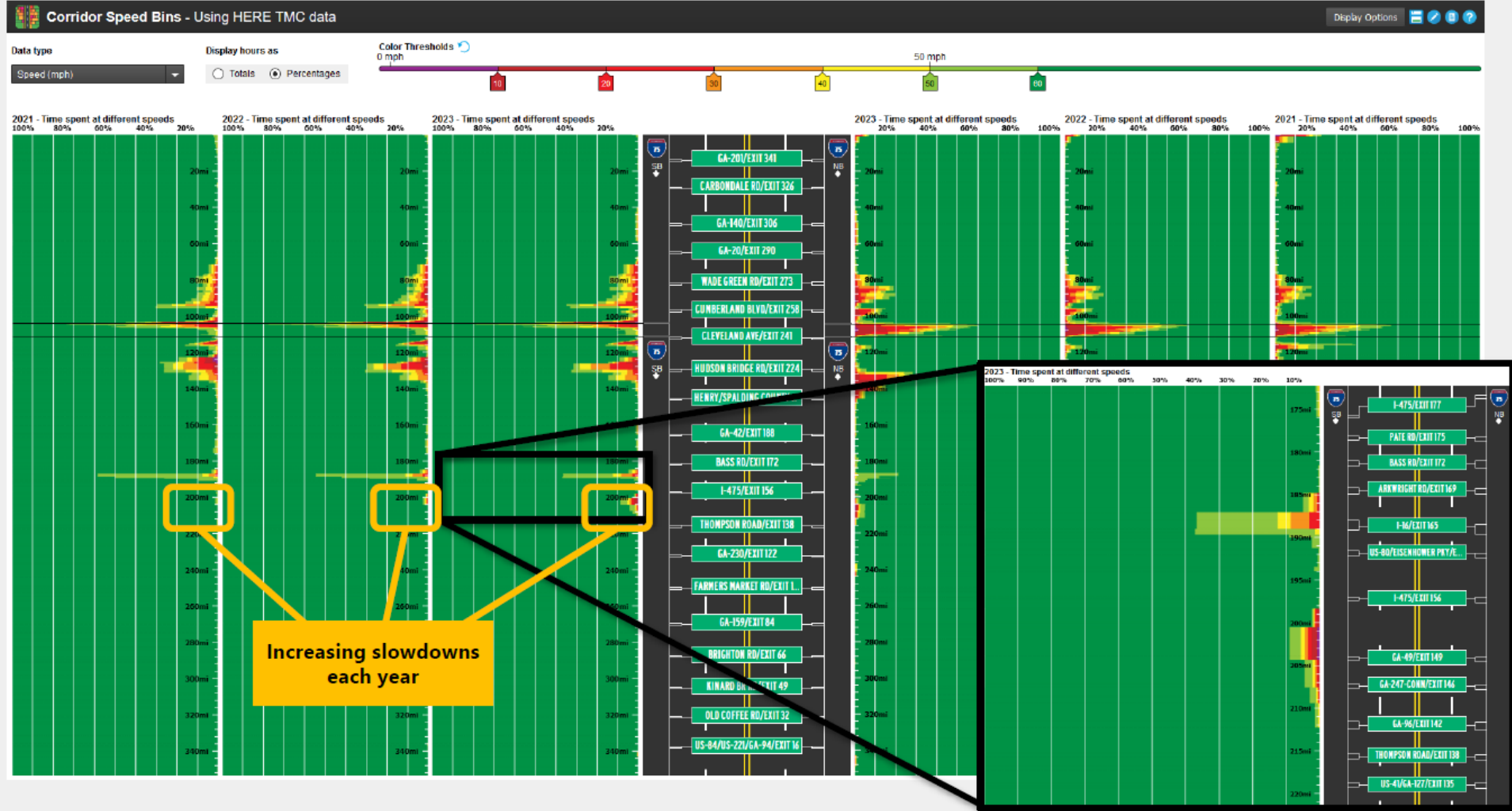
Use case: using Corridor Speed Bins to find locations of slowdowns or excessive speeding

Corridor Speed Bins is a good tool to use for determining the locations and intensity of speed-related driving behavior. The tool allows you to examine long stretches of road (such as the length of an entire interstate within a state) or zero in on specific areas of interest.

Identifying locations of recurring congestion

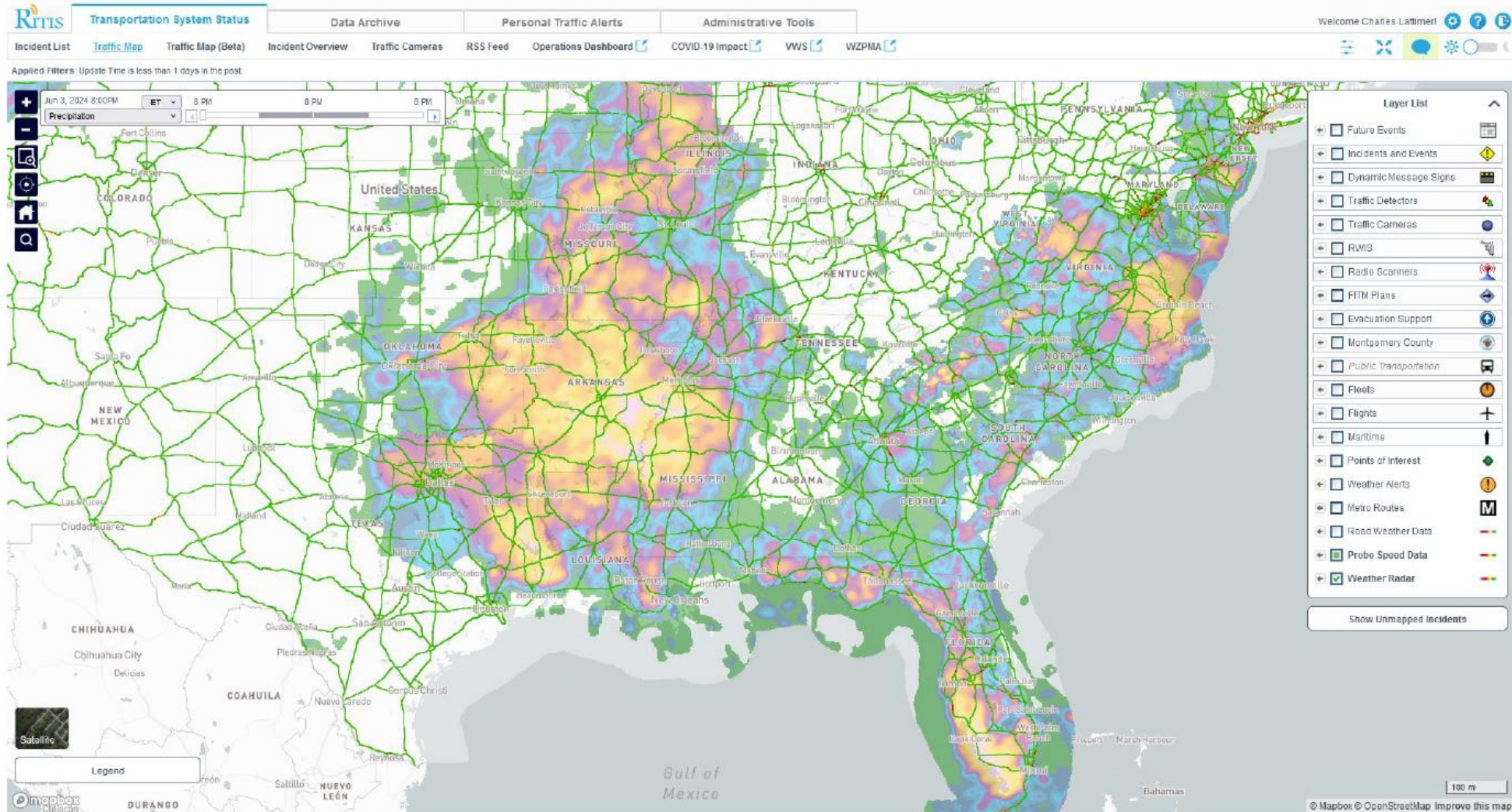
The following Corridor Speed Bin report shows the entirety of I-75 in Georgia, analyzing speeds over the course of one month. As one would expect, most of the slow speed readings are between exits 212 and 285, which bracket the greater Atlanta metropolitan area.

However, we also see clusters of low speeds between exits 142 and 167 in the Macon/Warner Robbins area. The congestion between I-475 and Thompson Road has been steadily increasing since 2021, as can be seen by comparing the three plots on the left.



The **Precipitation** menu shows forecast precipitation for the upcoming 48 hours. Click the buttons (or click on the time slider) to view forecast precipitation for future times.

Jun 3, 2024 8:00PM ET 8 PM 8 PM 8 PM
Precipitation



Amarillo, TX

> **CHANCE FOR 1" OF SNOW**

» SUNDAY, FEBRUARY 11TH 2024

**STORM
SEARCH**



40 - 60%

10 - 40%

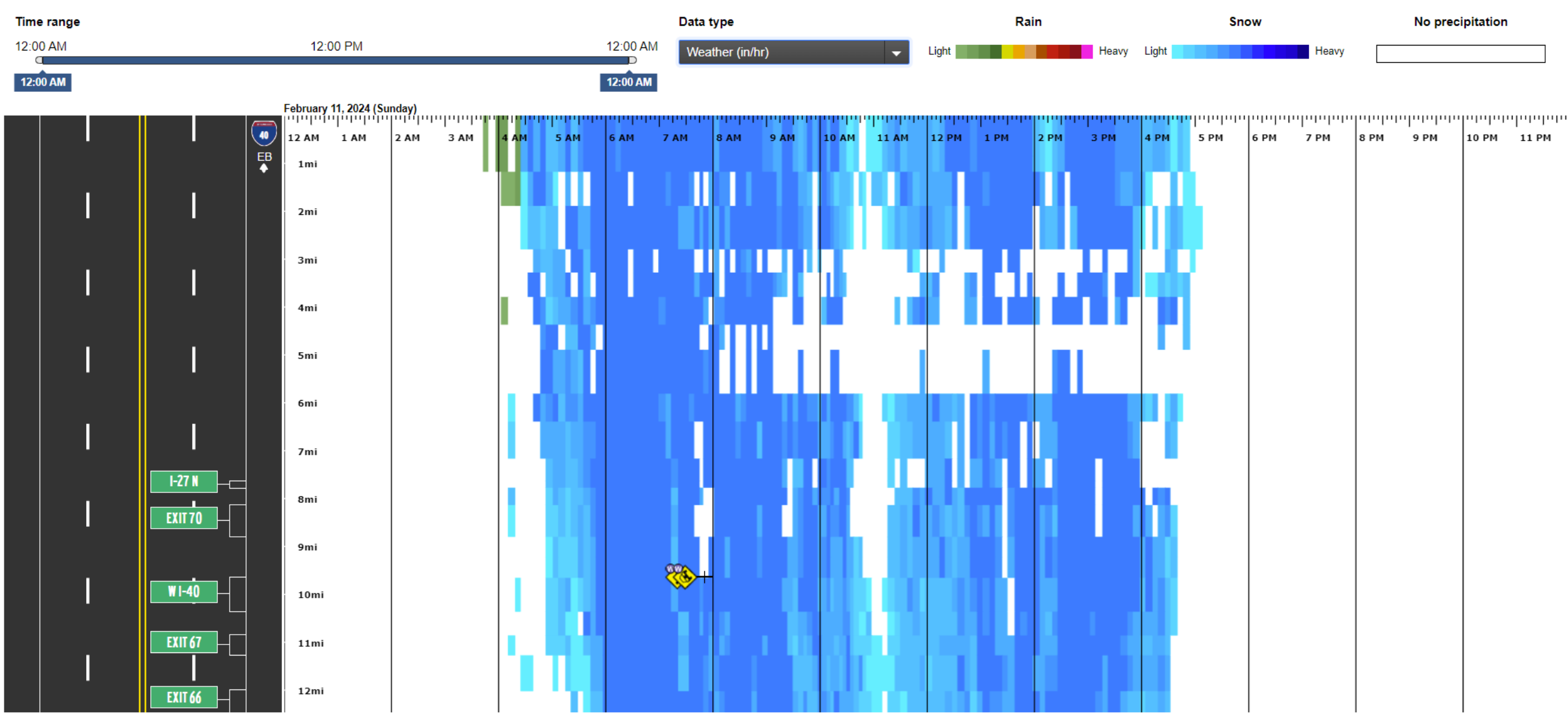
**MAGNITUDE OF SNOW
TOTALS IS STILL UNKNOWN.**



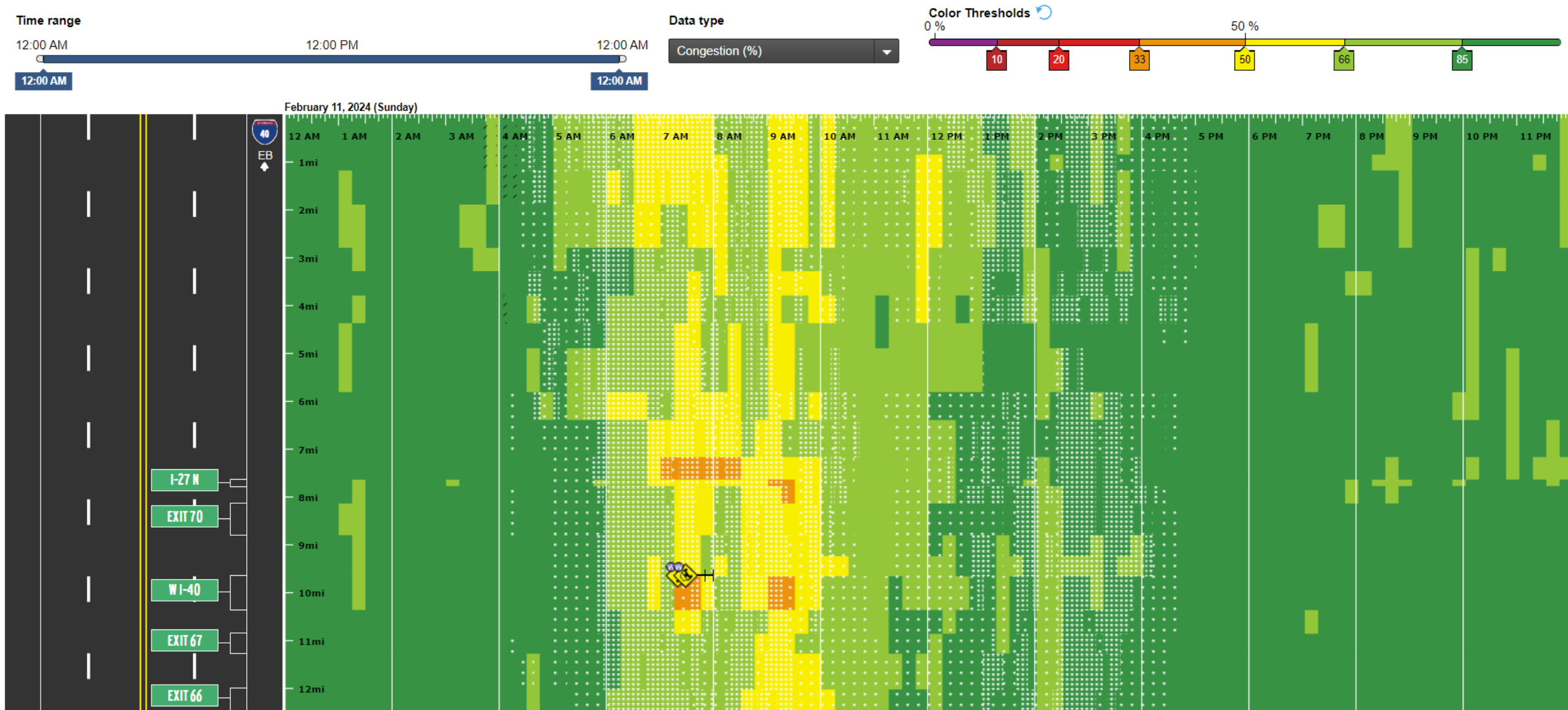
I-40 Snowfall & Congestion: Feb. 11, 2024



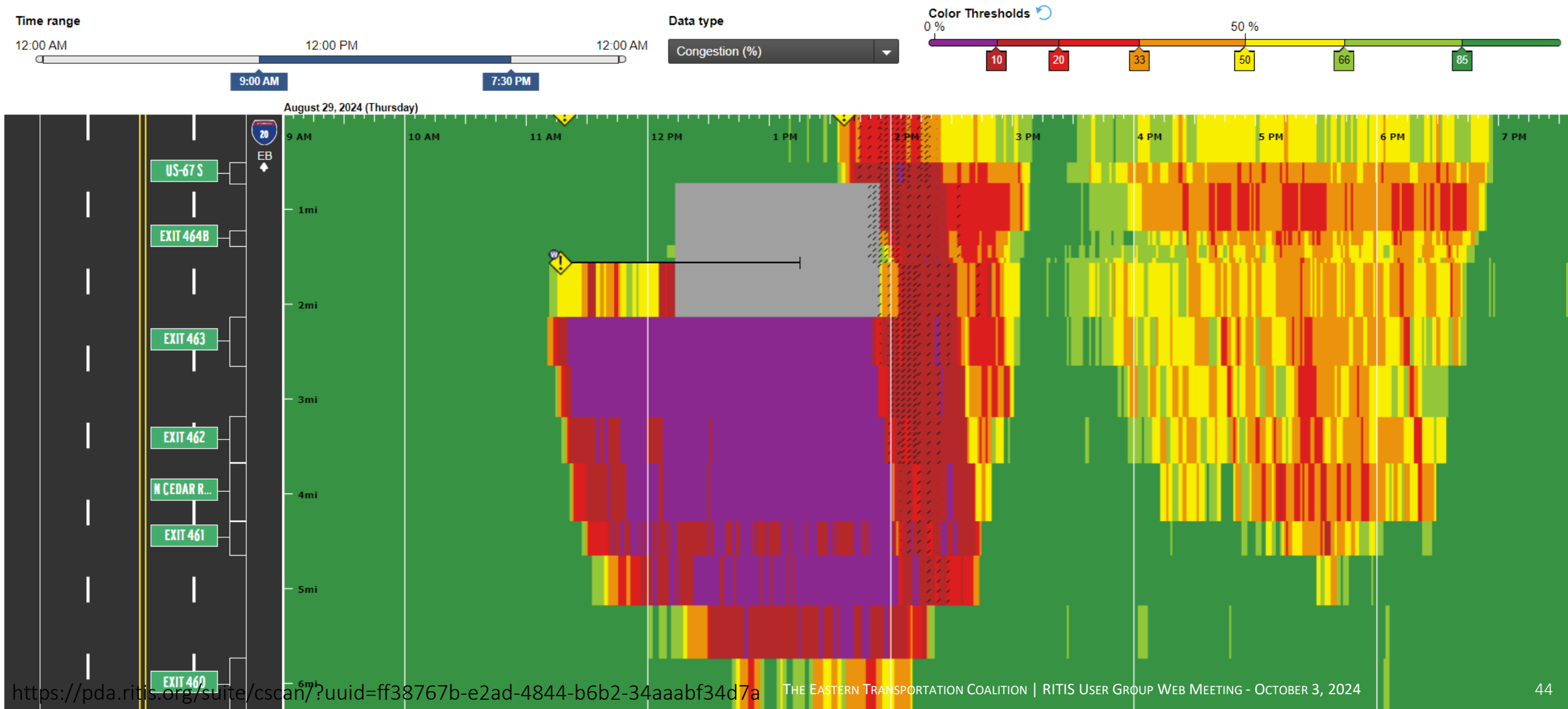
I-40 Snowfall & Congestion: Feb. 11, 2024



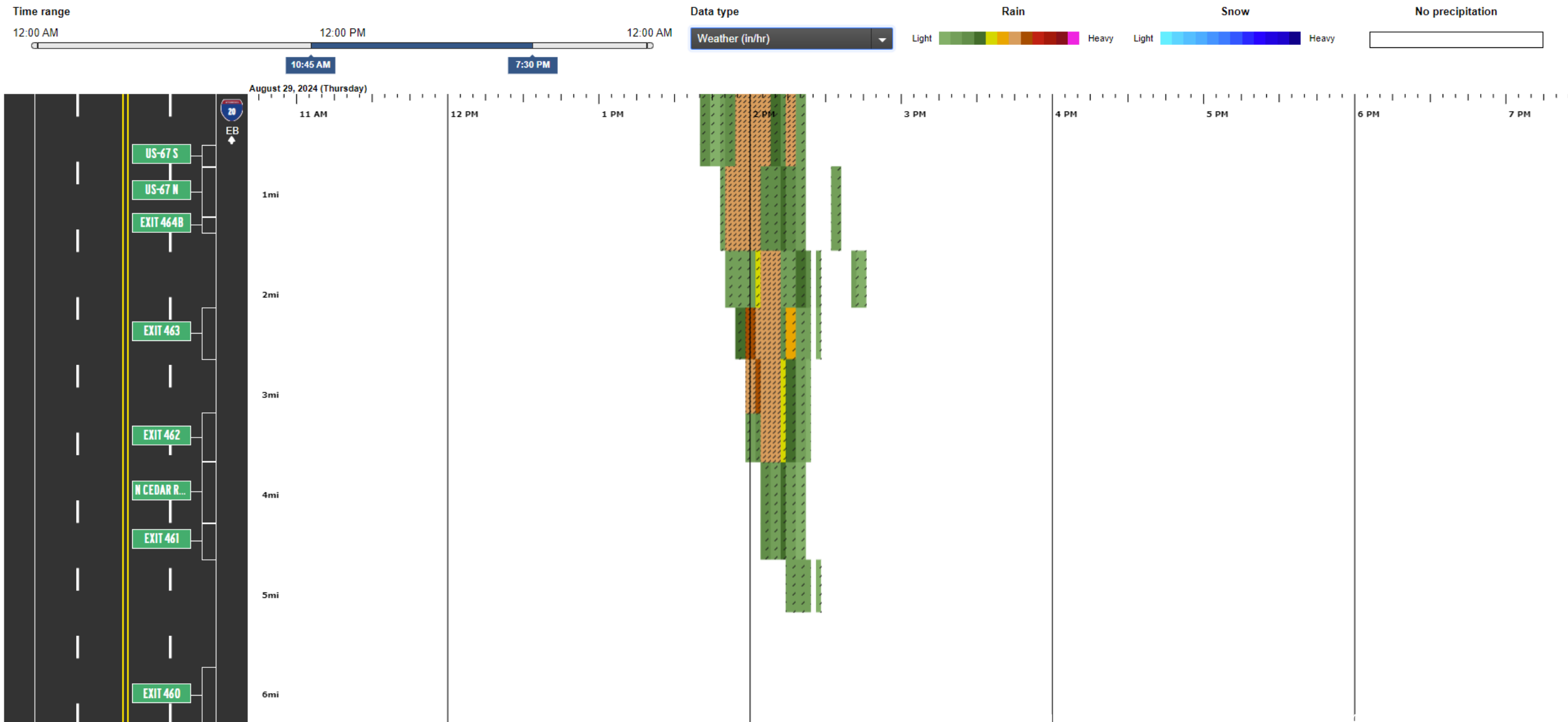
I-40 Snowfall & Congestion: Feb. 11, 2024



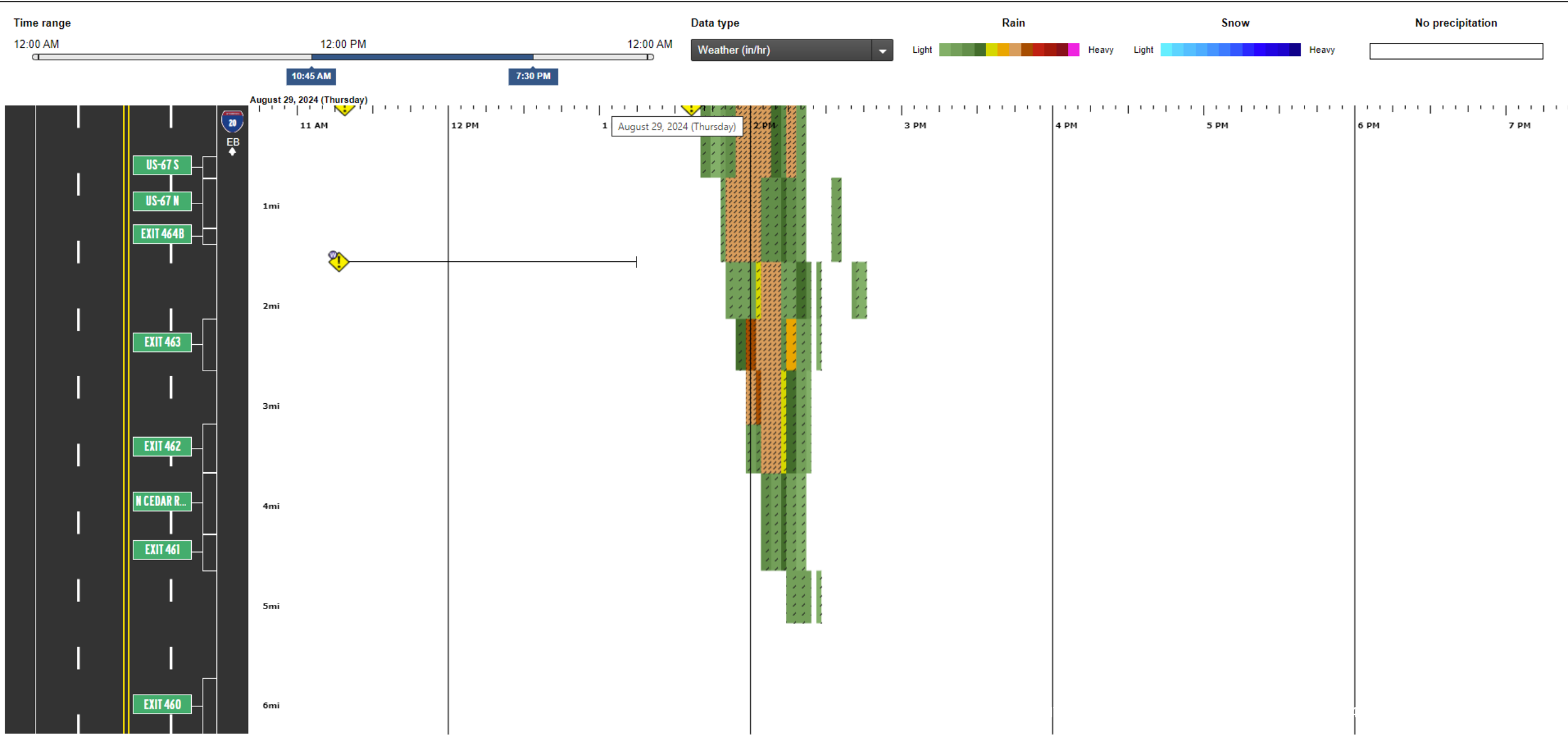
I-20 incident: rainfall occurred just after the incident cleared



Weather was a factor



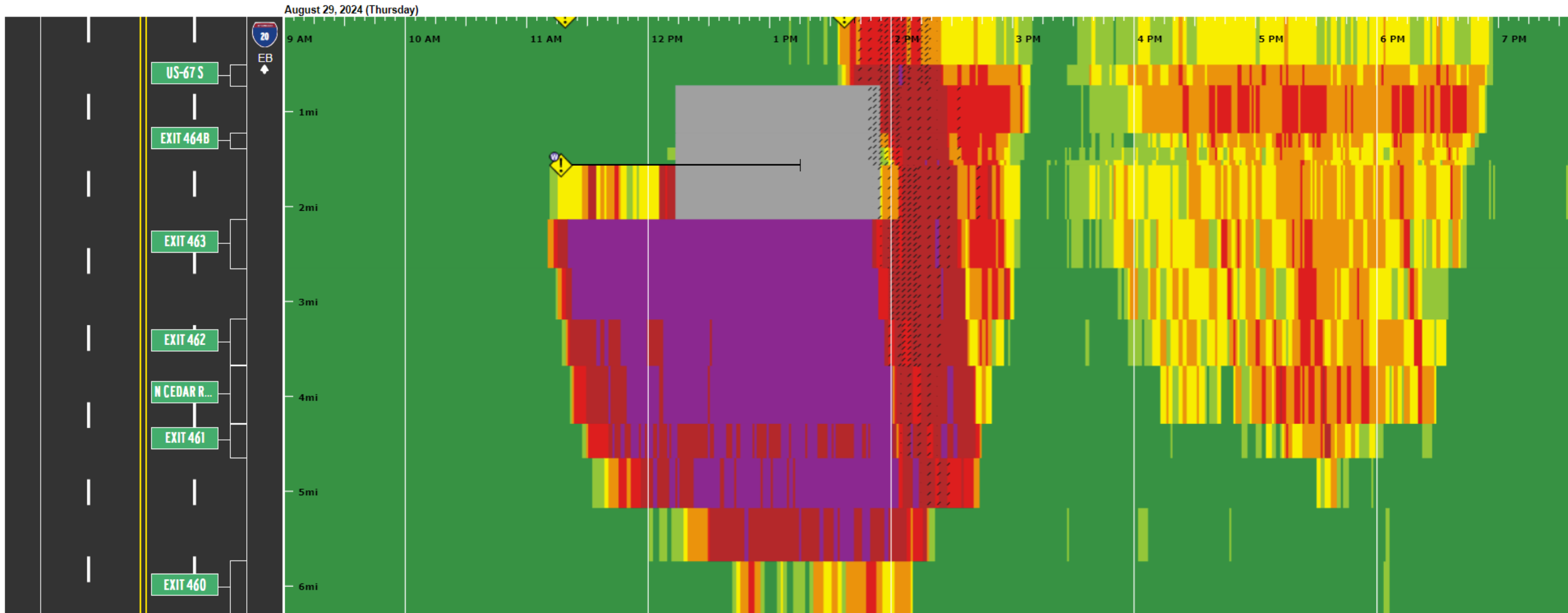
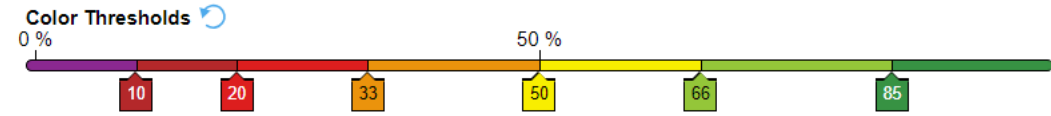
Weather was a factor



Weather was a factor

Time range: 12:00 AM to 12:00 PM
9:00 AM 7:30 PM

Data type: Congestion (%)



Status of Enhancements

- Speed & Travel Time Widgets now support XD segments

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-695 CW between I-95/E...	↓ 10	48 mph	58 mph	↑ 4	25 m	21 m
I-695 CCW between I-95/...	↑ 2	60 mph	58 mph	↓ 1	18 m	19 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-95 NB	↑ 1	70 mph	69 mph	0	7 m	7 m
I-95 SB	↓ 2	68 mph	70 mph	↑ 1	7 m	6 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-95 NB	↑ 1	70 mph	69 mph	0	7 m	7 m
I-95 SB	↓ 2	68 mph	70 mph	↑ 1	7 m	6 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-895-SPUR NB	↑ 2	57 mph	55 mph	0	3 m	3 m
I-895-SPUR SB	↑ 2	60 mph	58 mph	0	3 m	3 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-95 NB	↓ 15	37 mph	52 mph	↑ 1	3 m	2 m
I-95 SB	↑ 2	59 mph	57 mph	0	2 m	2 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-895 NB between Harbor...	↓ 14	19 mph	33 mph	↑ 4	10 m	6 m
I-895 SB between Harbor ...	↓ 23	21 mph	44 mph	↑ 5	10 m	5 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-695 CW between MD-15...	↓ 19	44 mph	63 mph	↑ 2	7 m	5 m
I-695 CCW between MD-1...	↑ 1	65 mph	64 mph	0	5 m	5 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-695 CW between I-95/E...	↓ 15	22 mph	37 mph	↑ 6	16 m	10 m
I-695 CCW between I-95/...	↑ 5	63 mph	58 mph	↓ 1	6 m	7 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-795 NB	↑ 1	65 mph	64 mph	0	8 m	8 m
I-795 SB	↑ 1	66 mph	65 mph	0	8 m	8 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-83 NB between Fayette ...	↓ 2	51 mph	53 mph	0	11 m	11 m
I-83 SB between Fayette ...	0	53 mph	53 mph	0	10 m	10 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-70 EB between I-695/E...	↓ 14	42 mph	56 mph	↑ 2	9 m	7 m
I-70 WB between US-29/...	↓ 1	59 mph	60 mph	0	7 m	7 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-97 NB	↑ 2	60 mph	58 mph	↓ 1	17 m	18 m
I-97 SB	↑ 2	63 mph	61 mph	0	17 m	17 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-695 CW between I-95/E...	↓ 10	37 mph	47 mph	↑ 9	45 m	36 m
I-695 CCW between I-95/...	↓ 7	45 mph	52 mph	↑ 5	37 m	32 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-895 NB between I-95/E...	↓ 24	26 mph	50 mph	↑ 12	24 m	12 m
I-895 SB between I-95/E...	↓ 10	46 mph	56 mph	↑ 3	14 m	11 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						

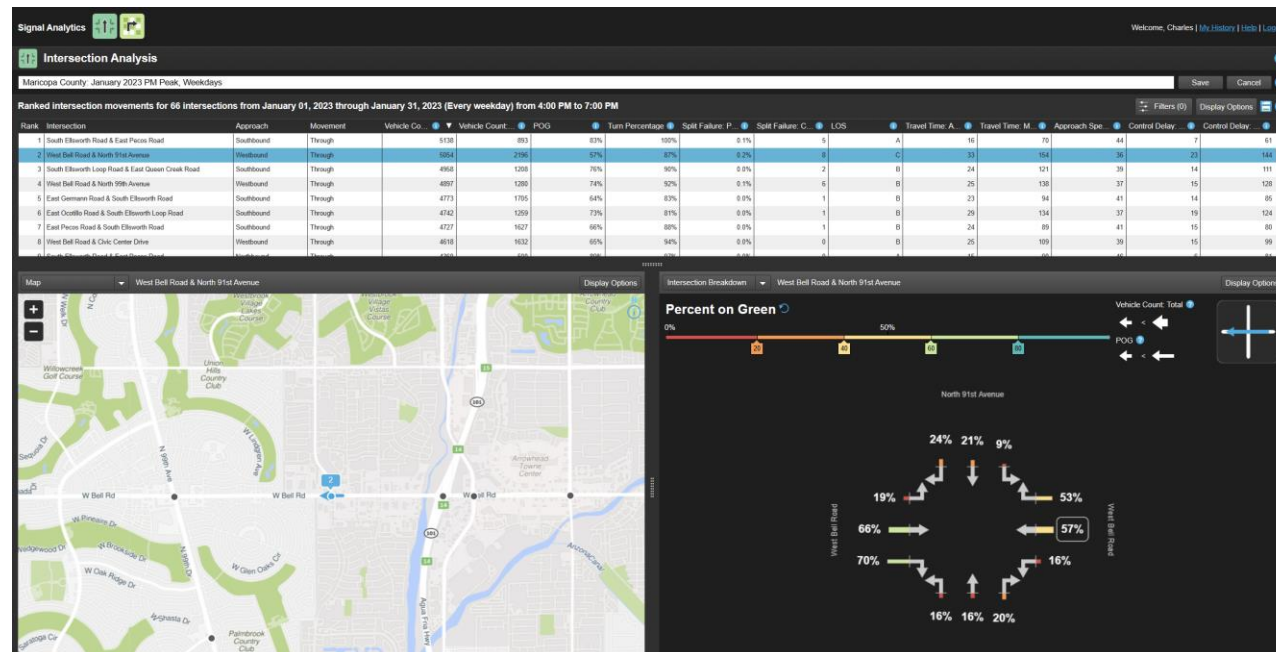
Speed and Travel Time Table						
Corridor	Average Speed			Travel Time		
	Differential	Current	Historical	Differential	Current	Historical
I-195 EB	↑ 1	57 mph	56 mph	0	5 m	5 m
I-195 WB	0	55 mph	55 mph	0	5 m	5 m
Data source: INRIX Updated May 6, 2024 3:29 PM (14s ago)						



Status of Enhancements

- Signal Analytics

- Added 3-minute delay metric
- Tracks the number of vehicles experiencing delays longer than 3 minutes at each intersection. This metric is available in both raw count (3MD Count) and percentage (3MD %) formats, giving you deeper insights into where longer delays are occurring.



Status of Enhancements

- Police Crash Data Sets in EQT (phase I)

DATA SOURCES

Traffic Event Data Police Crash Data

LOCATION

Corridor Region

Select one or more states or counties

Regions

TIME PERIOD

Date Range

From

To

Days of Week

Sun Mon Tue Wed Thu Fri Sat

Hours of Day

12:00 AM 12:00 PM 12:00 AM

12:00 AM 12:00 AM

+ Add another time of day

EVENT FILTERS

Check all the filters that apply to the event you are looking for to narrow your search.

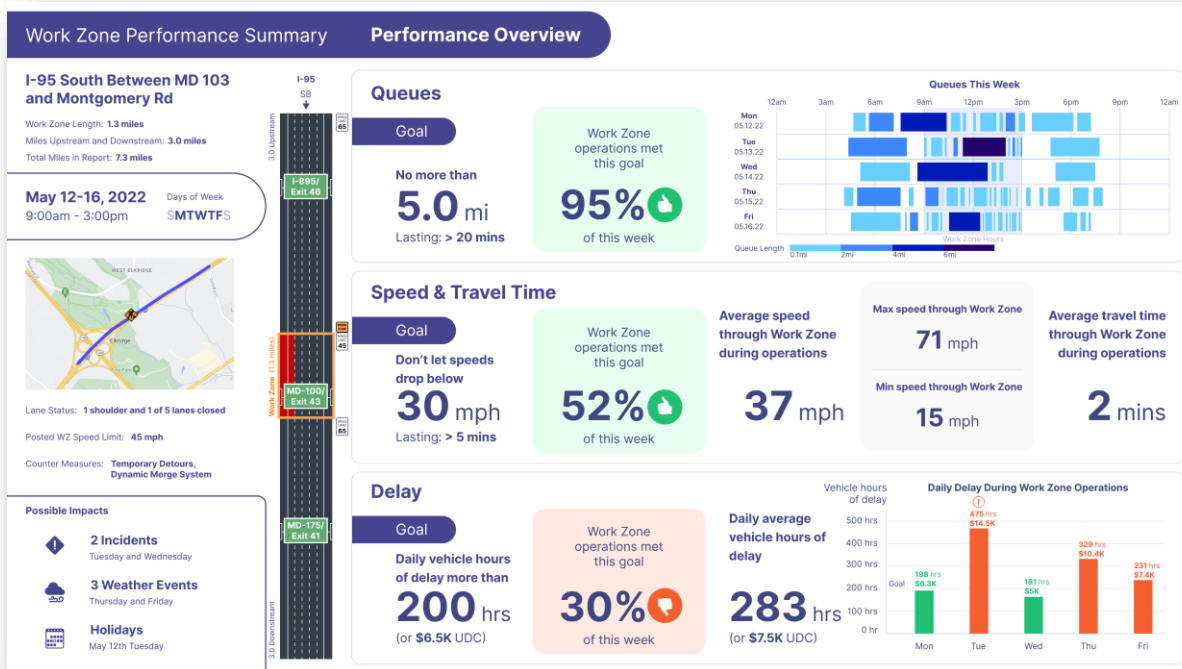
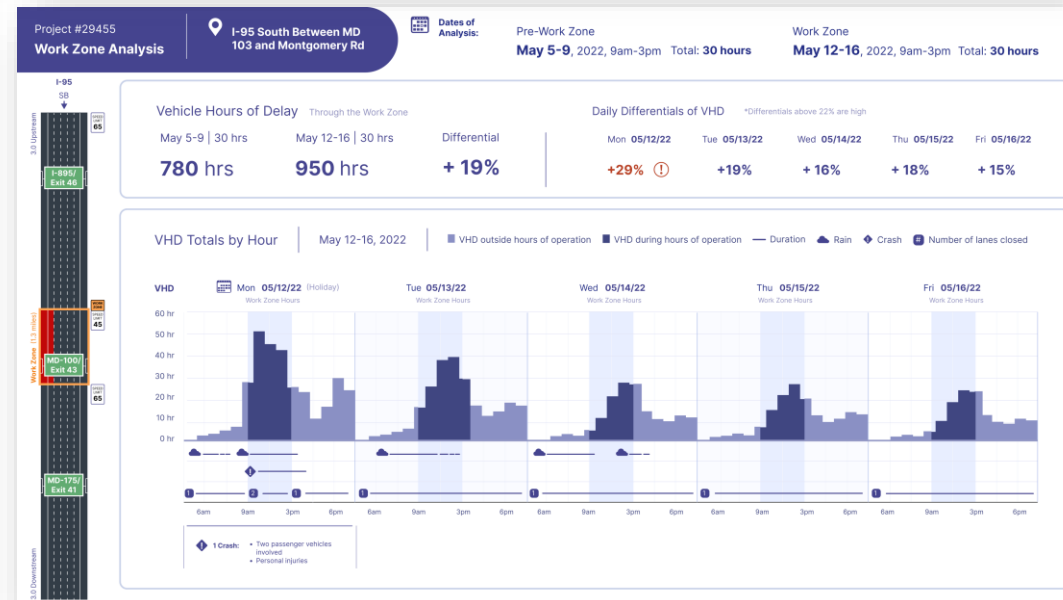
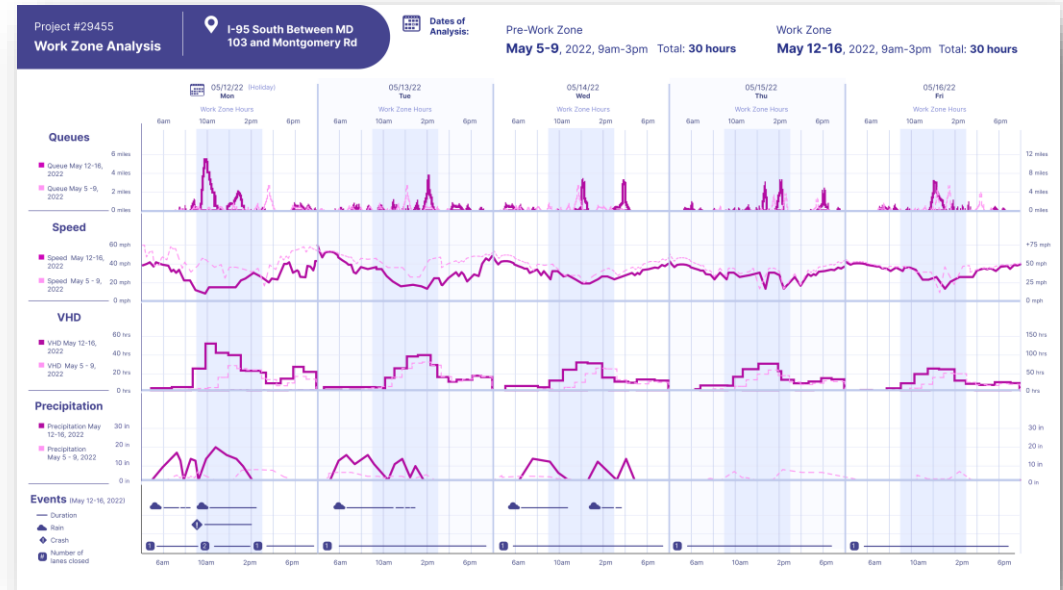
Include all available event filters

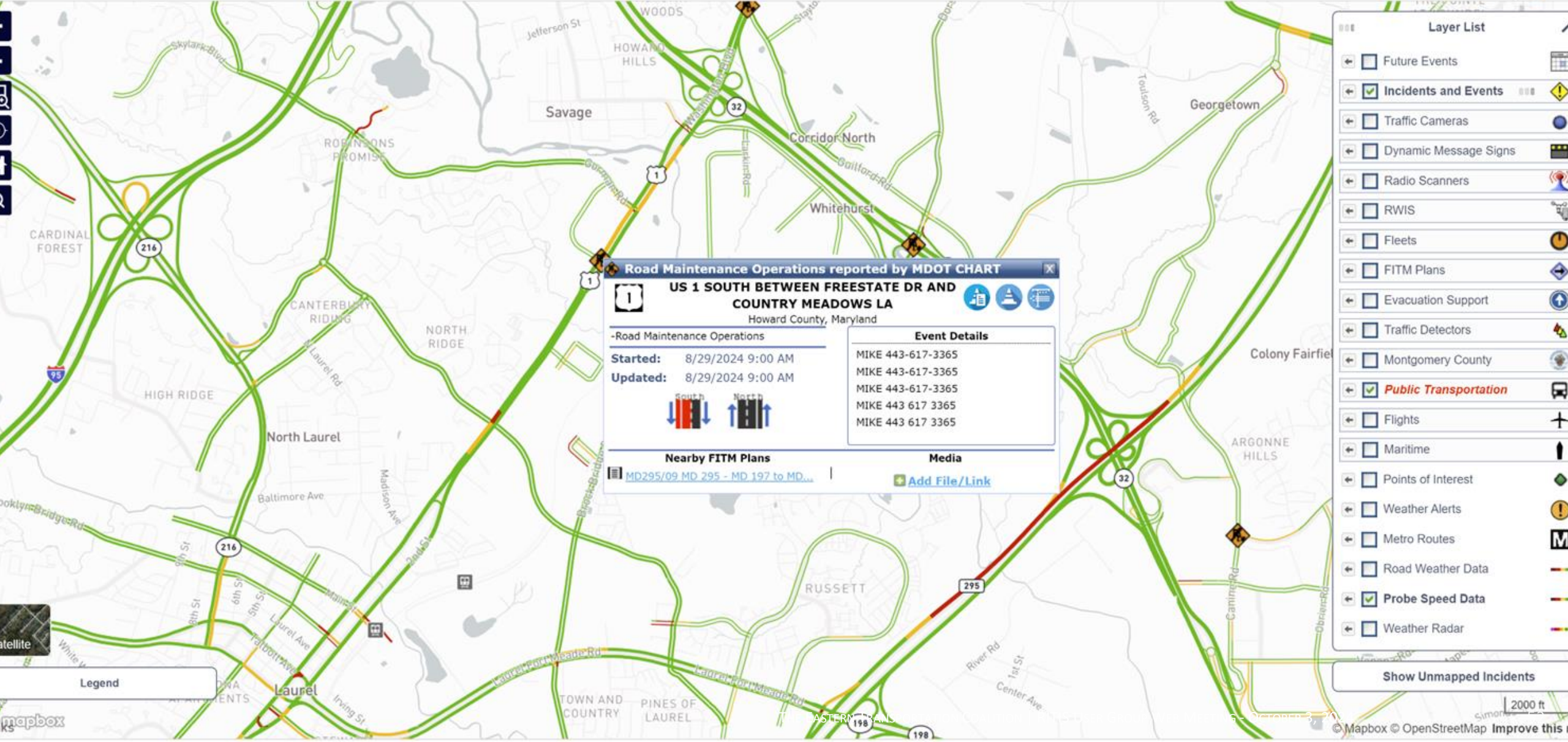
▶ Crash details (12/12) selected



Status of Enhancements

- Work-in-Progress: Automated Work Zone Reporting Tools
 - Partially funded
 - Development work is beginning





Road Maintenance Operations reported by MDOT CHART

US 1 SOUTH BETWEEN FREESTATE DR AND COUNTRY MEADOWS LA

Howard County, Maryland

-Road Maintenance Operations

Started: 8/29/2024 9:00 AM
Updated: 8/29/2024 9:00 AM

Event Details

- MIKE 443-617-3365
- MIKE 443-617-3365
- MIKE 443-617-3365
- MIKE 443 617 3365
- MIKE 443 617 3365

Nearby FITM Plans

- MD295/09 MD 295 - MD 197 to MD...

Media

[Add File/Link](#)

- ### Layer List
- Future Events
 - Incidents and Events
 - Traffic Cameras
 - Dynamic Message Signs
 - Radio Scanners
 - RWIS
 - Fleets
 - FITM Plans
 - Evacuation Support
 - Traffic Detectors
 - Montgomery County
 - Public Transportation
 - Flights
 - Maritime
 - Points of Interest
 - Weather Alerts
 - Metro Routes
 - Road Weather Data
 - Probe Speed Data
 - Weather Radar

Legend

Show Unmapped Incidents


Report Parameters

1. Select work zone location

The work zone location includes the segments the road work is occurring on.

TMC segments from INRIX

[x Clear All](#)



**Planned Closure
@ US 40 EAST/WEST
BETWEEN THIOKOL RD
AND ELKTON RD**

**Segment Codes
110N09239**

2. Select additional segments around work zone location

You may want to expand the area of analysis beyond the work zone location to understand its full impact. This report will only calculate performance metrics from the selected work zone location above and the additional segments selected in this step.

Select from Map | Segment Codes | Road

You can define your work zone by selecting one or multiple segments on the map.

[x Clear All](#)

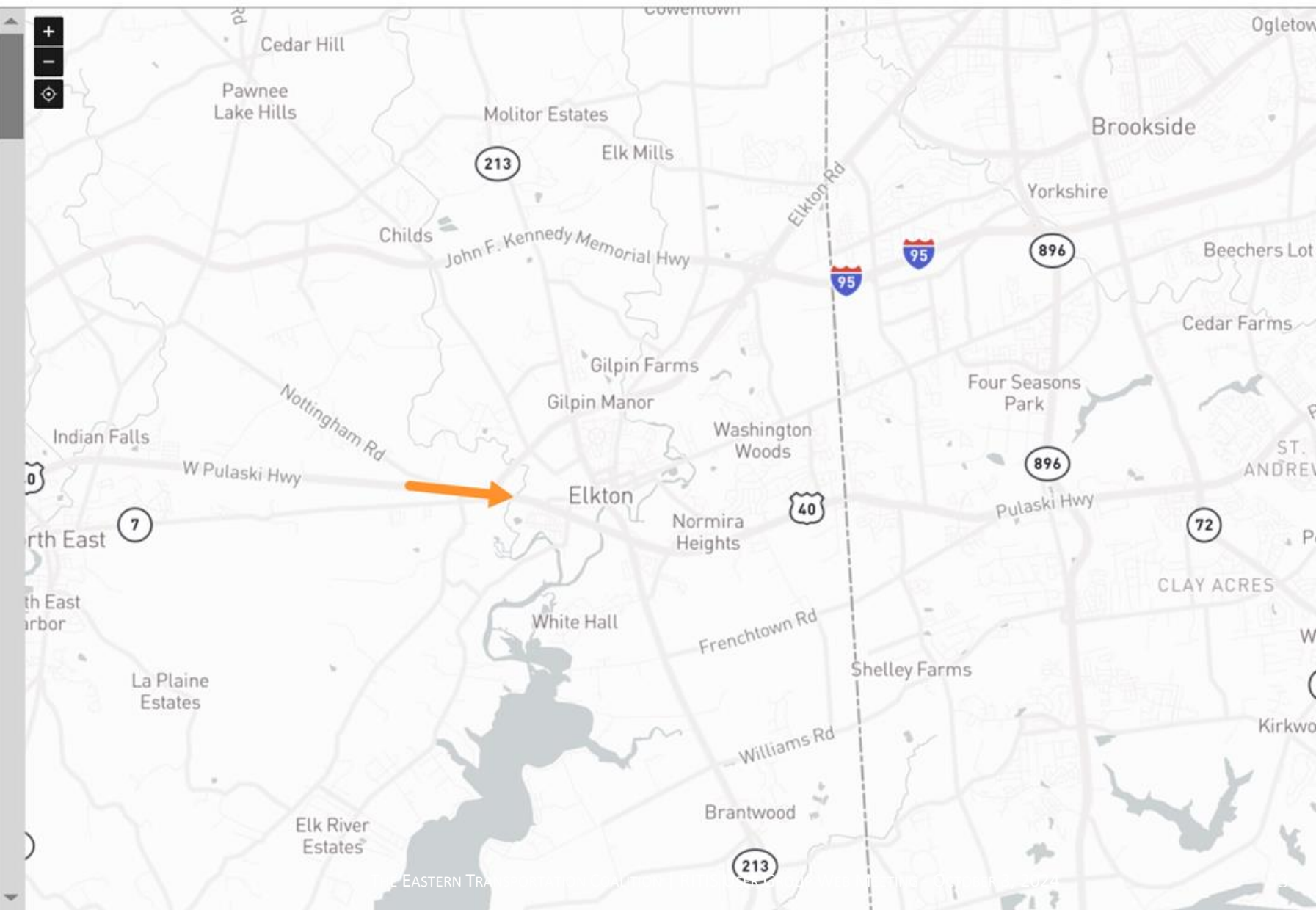
Starting segment **Ending segment**

[+ Add Segment\(s\)](#)

3. Select date range

- through -

4. Select days of week



Select from Map | Segment Codes | Road

You can define your work zone by selecting one or multiple segments on the map.

Starting segment Ending segment

Your selected roads

US-40 Eastbound at MD-213

3. Select date range

- through -

4. Select days of week

Sun Mon Tue Wed Thu Fri Sat

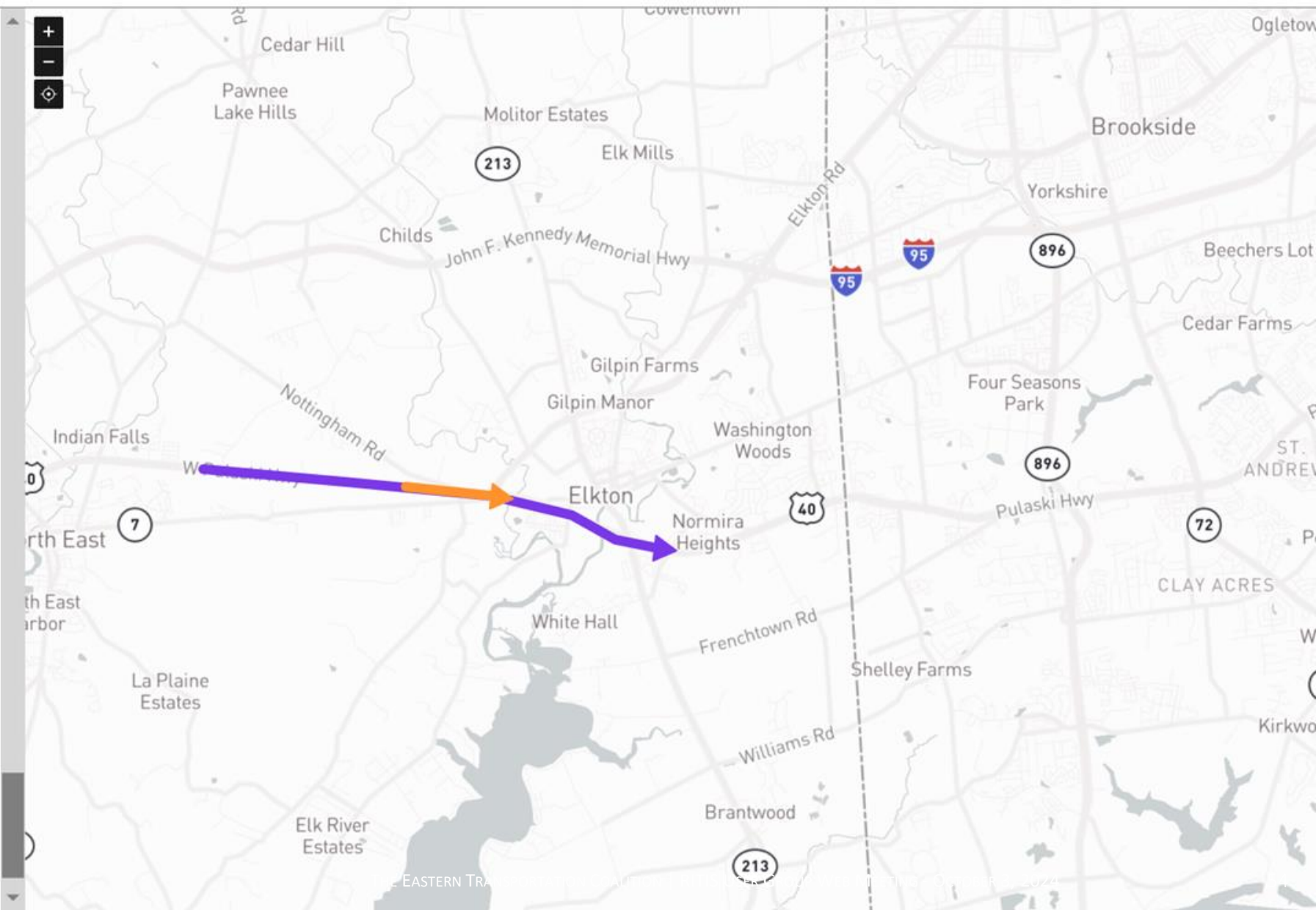
5. Select hours of operation

12:00 AM - 12:00 PM - 12:00 AM

6. Compare against another time period (optional)

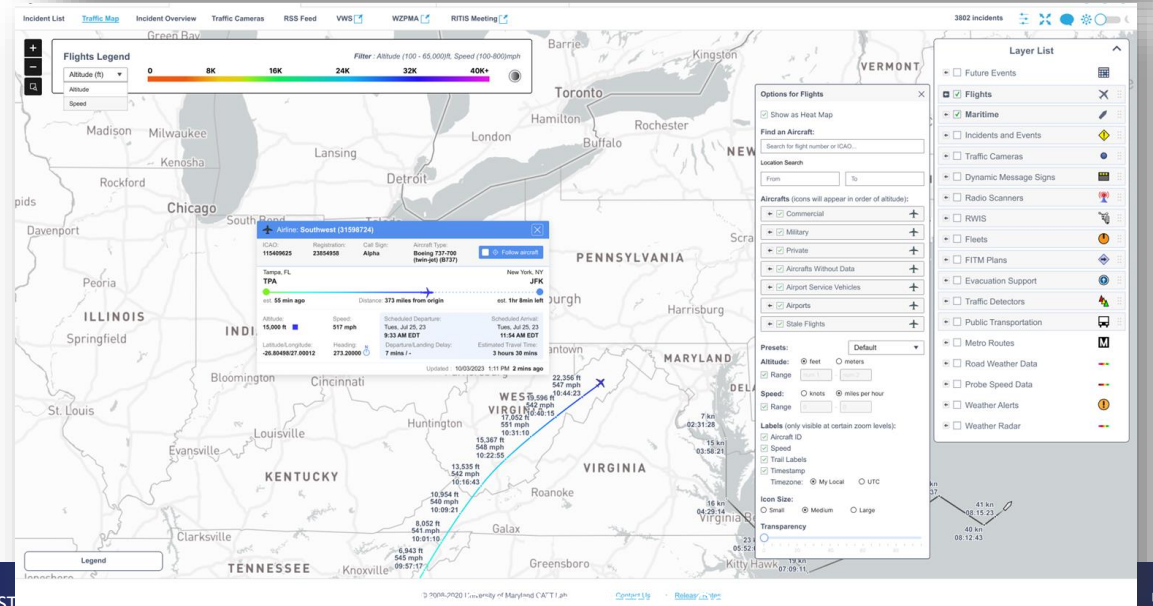
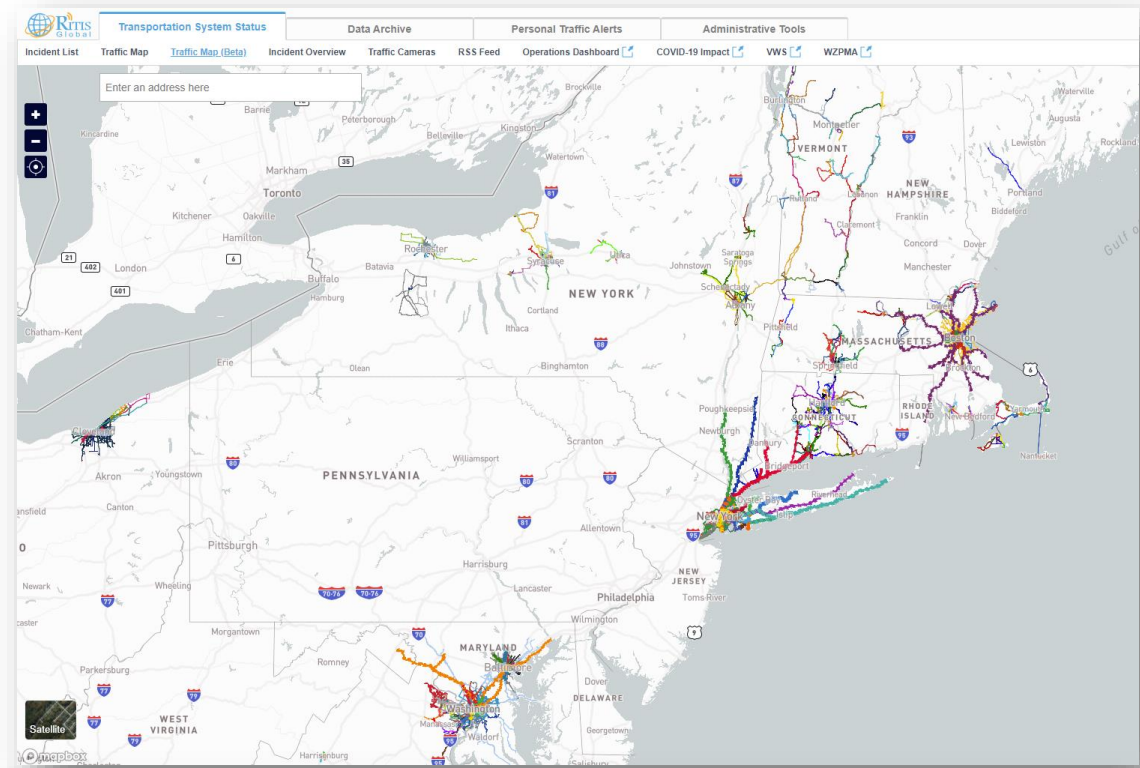
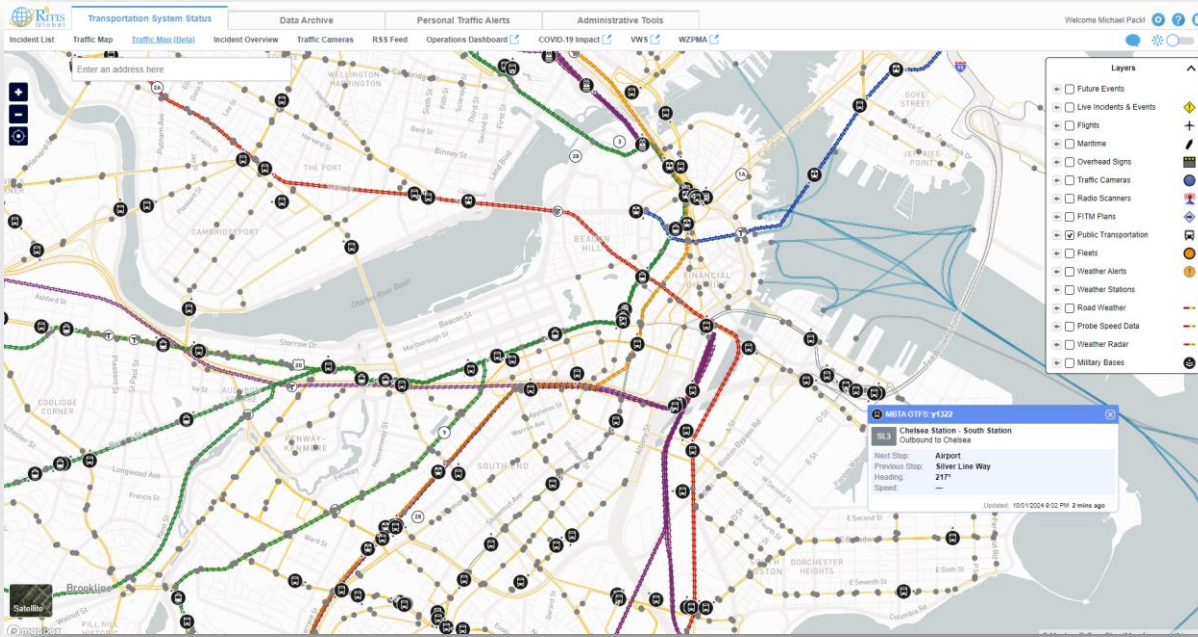
Include a comparison time period

An additional time period will be added to the multi line chart analysis page. You can use this to compare performances from week to week.



Works in Progress

- Mapping Modernization
- Animations of “moving” data sets
- Scalability and UI work for Transit



Trip Analytics – New travel time and distance metrics

Example: Make OD matrix and calculate metrics for trips to and from Fulton County, GA

(Find all available trips that moved within Fulton County during a specified temporal range)

Trip Analytics

Logged in as gjordan1@umd.edu | [My Studies](#) | [Help](#) | [Switch data set](#) | [Logout](#)

Set Spatial Filter(s)

Choose one of the following spatial filters. This geography will be used to further filter out trips that don't interact with it.

Add an area for spatial filtering

Upload GeoJSON Select predefined areas Draw area

Assemble a single, contiguous area by selecting adjacent areas. Make selections by clicking on the map or from one of the following sets:

States
Select...

Counties
Georgia (Fulton County)

Subcounties
Select...

TAZs
Select...

ZIP Codes
Select...

Selection Summary

1 County: Fulton County, Georgia

Select pass-through settings for this filter:

Started Inside Ended Inside
 Started Outside Ended Outside

+ Add 2nd filter for a From/to query | Next

Test by Greg -- prod version



Data Set: Georgia



Study Area: Base Geography

Internal Zones: Counties

External Zones: Counties

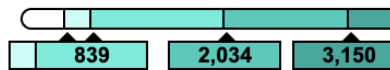
Spatial Filter: 1 area in Georgia Data Set

Temporal Filter: 12/1/2023 – 12/31/2023

Other Filters: Vehicle type: all

Legend

218



Display Options

Open as...

Export

Destinations

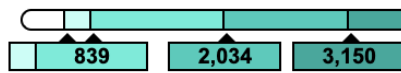
Sample counts

		Internal												Other	Total
		Georgia													
Origins	Internal Georgia	Fulton County	Bartow County	Cherokee County	Clayton County	Cobb County	Coweta County	DeKalb County	Douglas County	Fayette County	Forsyth County	Fulton County	Gwinnett County	Henry County	
				218	805	2,628	4,749	757	5,571	928	839	2,034	411	3,150	597
	Total	218	805	2,628	4,749	757	5,571	928	839	2,034	411	3,150	597	2,287	24,974

Displaying 1 origin and 12 destinations

188 other destinations (lowest subtotals) shown in 'Other' category





Destinations

Matrix Options

Show trips as...

- Sample counts
- Percentages
- Average travel time
- 5th percentile travel time
- 50th percentile (median) travel time
- 95th percentile travel time

Include intrazonal trips

Display a max of geographies.

Source matrix is 1x200. Displayed rows and columns are selected based on subtotals (highest values). Non-displayed rows and columns will be summarized in the "Other" groups.

Hide geographies below trips

To have at least one origin and one destination geography trip count cannot exceed 5571.

Sample counts

		Destinations							Henry County	Other	Total
		Georgia									
Origins	Internal	Bartow County	Cherokee County	Clayton County	Cobb County	Coweta County	DeKalb County	Douglas County			
		Georgia									
	Fulton County	218	805	2,628	4,749	757	5,571	928			
	Total	218	805	2,628	4,749	757	5,571	928	597	2,287	24,974

Displaying 1 origin and 12 destinations

188 other destinations (lowest subtotals) shown in 'Other' category

▼ Display Options

Open as...

Export



Export [X]

Include IDs (including FIPS when available)

Export:

As matrix to CSV

As OD pairs to CSV

Trip IDs to CSV

Download JSON

Download GeoJSON

Study (Test by Greg -- prod version)

Study area [grey]

Gates (all gates crossing study area) [red]

Internal zones (all zones in study area) [pink]

Analysis

Spatial filters [purple]

Matrix Options

Show trips as...

- Sample counts
- Percentages
- Average travel time
- 5th percentile travel time
- 50th percentile (median) travel time
- 95th percentile travel time

(travel times per request by a Nevada DOT partner)

50th percentile (median) pathway distance



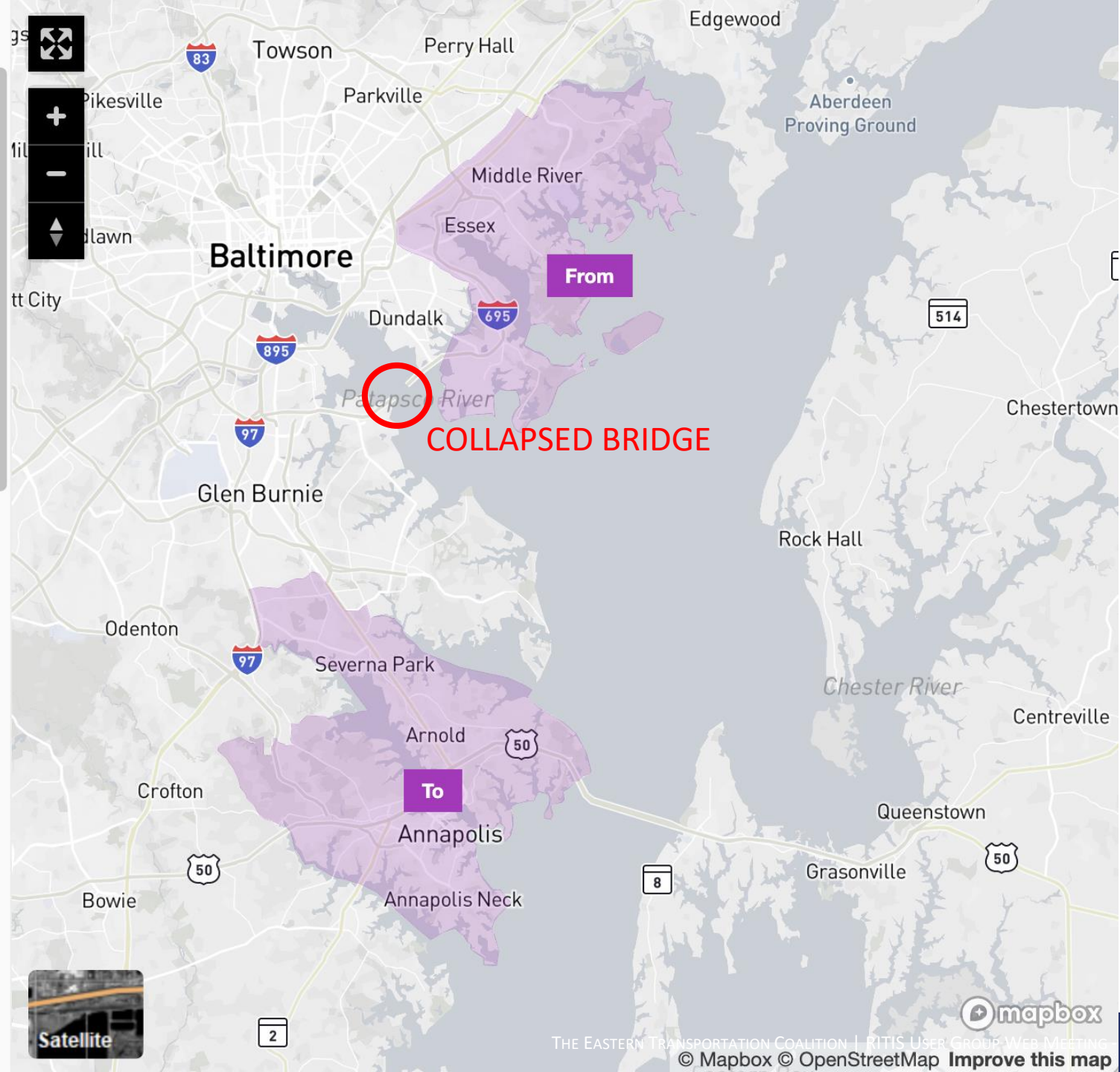
NEWEST (per request by PennDOT contractor)

<u>Origin Source</u>	<u>Origin State</u>	<u>Origin ID</u>	<u>Origin Geo ID</u>	<u>Origin Area</u>	<u>Destination Source</u>	<u>Destination State</u>	<u>Destination ID</u>	<u>Destination Geo ID</u>	<u>Destination Area</u>	<u>Trips</u>	<u>Trips (Vehicle type: Light)</u>	<u>Trips (Vehicle type: Medium)</u>	<u>Trips (Vehicle type: Heavy)</u>	<u>Median Travel Time</u>	<u>Average Travel Time</u>	<u>95th Percentile Travel Time</u>	<u>5th Percentile Travel Time</u>	<u>Median Trip Distance (mi)</u>
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	723	13089	DeKalb County	5571	5042	456	73	0:20:47	0:26:26	1:02:18	0:05:59	9.51
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	712	13067	Cobb County	4749	4282	385	82	0:21:56	0:26:54	0:58:26	0:06:01	10.93
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	746	13135	Gwinnett County	3150	2822	275	53	0:25:50	0:31:06	1:08:23	0:07:50	11.5
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	710	13063	Clayton County	2628	2216	331	81	0:19:21	0:26:19	1:06:28	0:04:55	9.99
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	737	13117	Forsyth County	2034	1900	118	16	0:19:40	0:23:45	0:56:38	0:05:22	9.35
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	727	13097	Douglas County	928	771	104	53	0:24:54	0:30:59	1:02:44	0:08:00	13.48
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	735	13113	Fayette County	839	731	99	9	0:25:48	0:29:04	1:03:59	0:08:09	12.11
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	707	13057	Cherokee County	805	724	74	7	0:28:38	0:32:31	1:04:05	0:09:22	12.94
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	717	13077	Coweta County	757	652	61	44	0:29:39	0:33:44	1:07:16	0:08:15	18.04
Internal	Georgia	739	13121	Fulton County	Internal	Georgia	754	13151	Henry County	597	507	66	24	0:37:15	0:42:40	1:18:08	0:19:15	25.34

Travel times

Distances

<u>Median Travel Time</u>	<u>Average Travel Time</u>	<u>95th Percentile Travel Time</u>	<u>5th Percentile Travel Time</u>	<u>Median Trip Distance (mi)</u>
0:20:47	0:26:26	1:02:18	0:05:59	9.51
0:21:56	0:26:54	0:58:26	0:06:01	10.93
0:25:50	0:31:06	1:08:23	0:07:50	11.5
0:19:21	0:26:19	1:06:28	0:04:55	9.99
0:19:40	0:23:45	0:56:38	0:05:22	9.35
0:24:54	0:30:59	1:02:44	0:08:00	13.48
0:25:48	0:29:04	1:03:59	0:08:09	12.11
0:28:38	0:32:31	1:04:05	0:09:22	12.94
0:29:39	0:33:44	1:07:16	0:08:15	18.04
0:37:15	0:42:40	1:18:08	0:19:15	25.34





Data Set: [Maryland \(freight-only 1/1/20 thru 1/31/24\)](#)

Internal Zones: Subcounties

Temporal Filter: 2/1/2024 – 3/25/2024

External Zones: OD gates

Other Filters: Vehicle type: Medium, He...

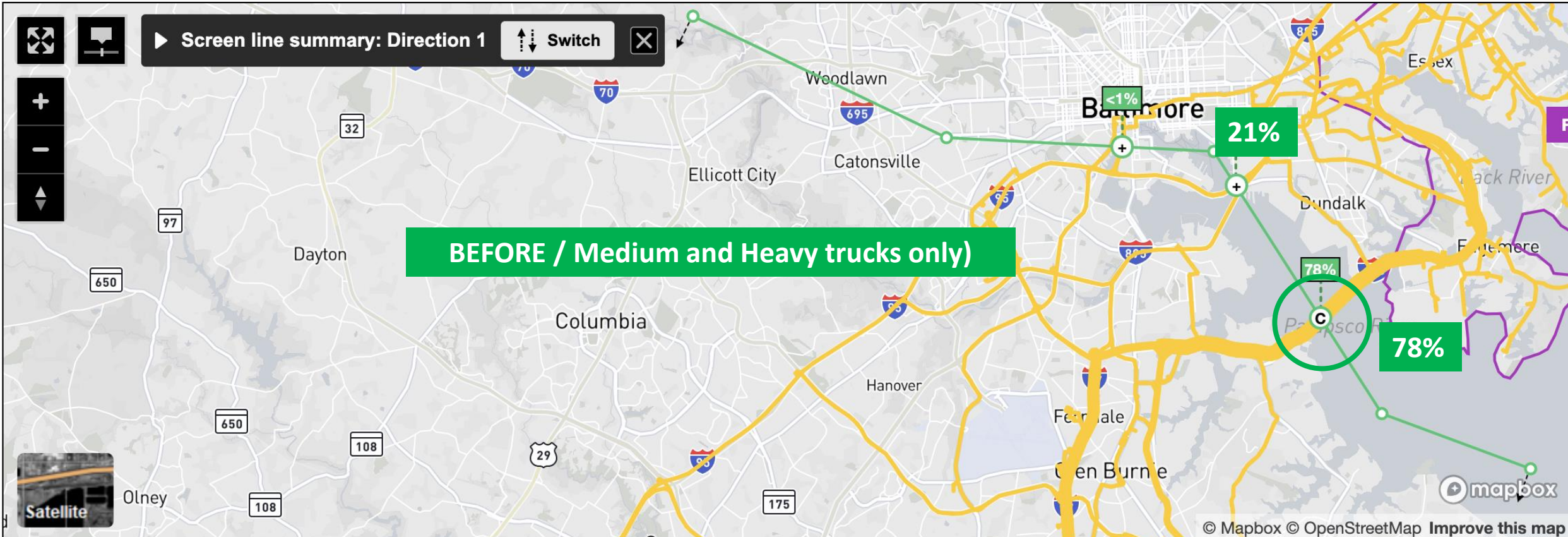
479 trips in 461 routes

▶ Display Options

Open as...

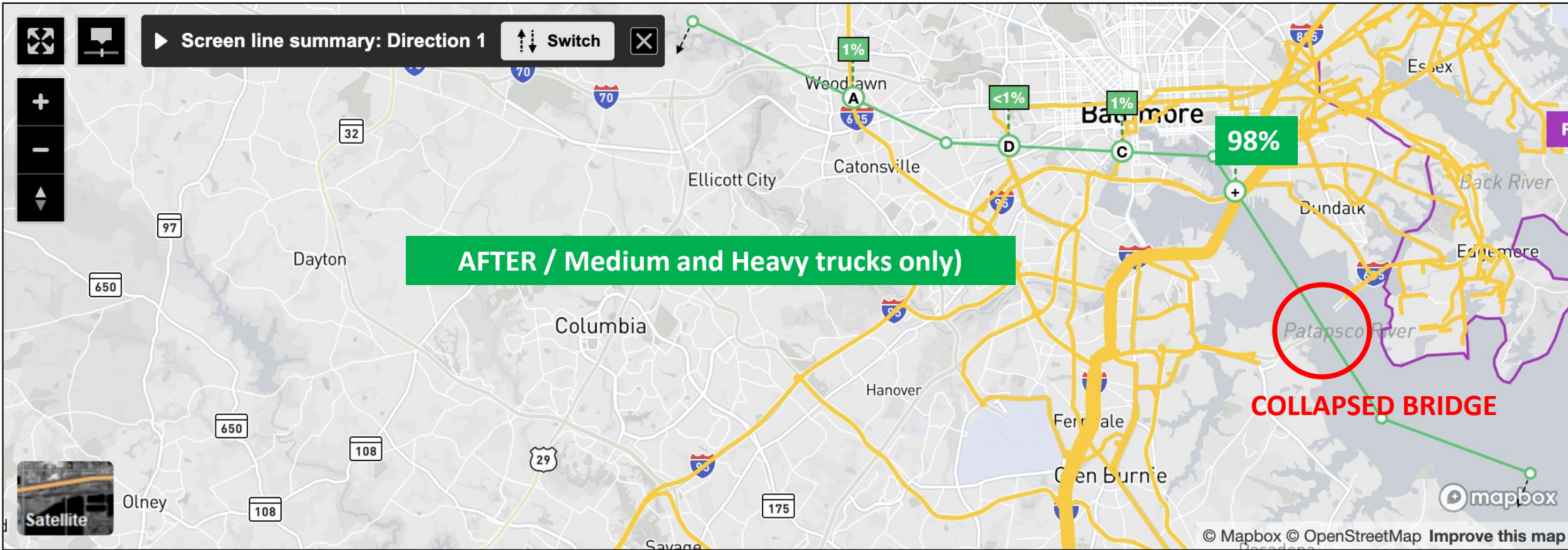
Export

<input checked="" type="checkbox"/> Map	Rank	Route	# of Trips ▼	Medium Vehicles	Heavy Vehicles	Avg Speed	Length	Avg TT	5% TT	50% TT	95% TT	Reliability
<input checked="" type="checkbox"/>	23	▶ North Point Boulevard, MD 151; Bal	1	1	0	41 mph	33 mi	49 m	49 m	49 m	49 m	1
<input checked="" type="checkbox"/>	24	▶ Carroll Island Road; Eastern Boulev	1	1	0	35 mph	42 mi	1 h 11 m	1 h 11 m	1 h 11 m	1 h 11 m	1
<input checked="" type="checkbox"/>	25	▶ Kingston Road; Eastern Boulevard,	1	1	0	49 mph	31 mi	38 m	38 m	38 m	38 m	1
<input checked="" type="checkbox"/>	26	▶ Pulaski Highway, US 40; Golden Rii	1	1	0	56 mph	39 mi	42 m	42 m	42 m	42 m	1
Total			479	463	16							





Map	Rank	Route	# of Trips	Medium Vehicles	Heavy Vehicles	Avg Speed	Length	Avg TT	5% TT	50% TT	95% TT	Reliability
<input checked="" type="checkbox"/>	419	Schaefers Lane; Pulaski Highway, L	1	1	0	41 mph	23 mi	33 m	33 m	33 m	33 m	1
<input checked="" type="checkbox"/>	420	Pulaski Highway, US 40; Baltimore I	1	1	0	31 mph	58 mi	1 h 51 m	1 h 51 m	1 h 51 m	1 h 51 m	1
<input checked="" type="checkbox"/>	421	Cunninghill Cove Road; Graces Qu:	1	1	0	28 mph	43 mi	1 h 30 m	1 h 30 m	1 h 30 m	1 h 30 m	1
<input checked="" type="checkbox"/>	422	Rolling Mill Road; Kane Street; East	1	1	0	45 mph	20 mi	26 m	26 m	26 m	26 m	1
Total			424	413	11							



Demo Travel Time and Dis...



Data Set: [Maryland \(freight-only 1/1/20 thru 1/31/24\)](#)

Study Area: Base Geography

Spatial Filter: 3 areas in Maryland (freig...

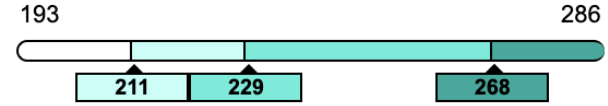
Internal Zones: Subcounties

Temporal Filter: 2/1/2024 – 3/25/2024

External Zones: OD gates

Other Filters: Vehicle type: Medium, He...

Legend



▶ **Display Options**

Open as...

Export

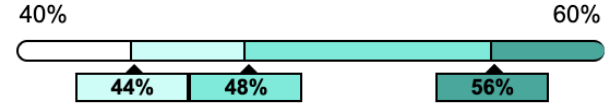
Destinations

Sample counts

Origins

		Destinations			Total
		Internal	Maryland		
		5 - 0039037601929621 (Anne Arundel County)	6 - 0039046801929643 (Anne Arundel County)		
Internal	Maryland	15 - 0059129601929490 (Baltimore County)	193	286	479
Total			193	286	479

Displaying 1 origin and 2 destinations



Origins

Destin



Percentages

Origins		Destinations	
Internal	Maryland	Internal	Maryland
		5 - 0039037601929621 (Anne Arundel County)	
		15 - 0059129601929490 (Baltimore County)	40%
		Total	40%

Matrix Options

Show trips as...

- Sample counts
- Percentages
- Average travel time
- 5th percentile travel time
- 50th percentile (median) travel time
- 95th percentile travel time

Include intrazonal trips

Display a max of geographies.

Source matrix is 1x2. Displayed rows and columns are selected based on subtotals (highest values). Non-displayed rows and columns will be summarized in the "Other" groups.

Hide geographies below trips

To have at least one origin and one destination geography trip count cannot exceed 286.

Destinations		Total
Internal	Maryland	
		100%
		100%

Displaying 1 origin and 2 destinations



Data Set: [Maryland \(freight-only 1/1/20 thru 1/31/24\)](#)

Study Area: Base Geography

Spatial Filter: 3 areas in Maryland (freig...

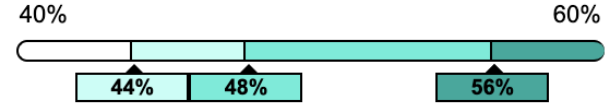
Internal Zones: Subcounties

Temporal Filter: 2/1/2024 – 3/25/2024

External Zones: OD gates

Other Filters: Vehicle type: Medium, He...

Legend



▶ Display Options

Open as...

Export

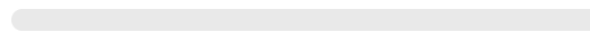
Destinations

Percentages

		Destinations			Total
		Internal		Maryland	
Origins	Internal	5 - 0039037601929621 (Anne Arundel County)	6 - 0039046801929643 (Anne Arundel County)		
	Maryland	15 - 0059129601929490 (Baltimore County)	40%	60%	100%
	Total		40%	60%	100%

Displaying 1 origin and 2 destinations





Destinations

Average travel time

		Destinations		
		Internal		Total
Origins	Maryland	Maryland		
		5 - 0039037601929621 (Anne Arundel County)	6 - 0039046801929643 (Anne Arundel County)	
	Internal	15 - 0059129601929490 (Baltimore County)	00:44:16	00:54:00
Total		n/a	n/a	n/a



Data Set: [Maryland \(freight-only 1/1/20 thru 1/31/24\)](#)

Study Area: Base Geography

Internal Zones: Subcounties

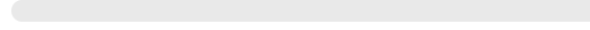
External Zones: OD gates

Spatial Filter: 3 areas in Maryland (freig...

Temporal Filter: 2/1/2024 – 3/25/2024

Other Filters: Vehicle type: Medium, He...

Legend

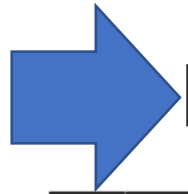


▶ Display Options

Open as...

Export

Destinations



95th percentile travel time

Origins

		Destinations		
		Internal		Total
Internal	Maryland	Maryland		
		5 - 0039037601929621 (Anne Arundel County)	6 - 0039046801929643 (Anne Arundel County)	
	15 - 0059129601929490 (Baltimore County)	01:08:02	01:18:32	n/a
	Total	n/a	n/a	n/a

Displaying 1 origin and 2 destinations

Weekdays Truck Samples – BEFORE and AFTER bridge loss

BEFORE

	Trips (Vehicle type: Medium)	Trips (Vehicle type: Heavy)	Median Travel Time	Average Travel Time	95th Percentile Travel Time	5th Percentile Travel Time	Median Trip Distance (mi)
Trips	278	8	0:52:13	0:54:00	1:18:32	0:38:00	37.34
<u>193</u>	185	8	0:41:53	0:44:16	1:08:02	0:27:00	29.39
479							

**Average travel times:
4 minutes longer or
9 minutes longer**

AFTER

	Trips (Vehicle type: Medium)	Trips (Vehicle type: Heavy)	Median Travel Time	Average Travel Time	95th Percentile Travel Time	5th Percentile Travel Time	Median Trip Distance (mi)
Trips	269	5	0:55:31	0:57:59	1:23:05	0:41:08	38.21
<u>150</u>	144	6	0:49:49	0:53:18	1:20:13	0:32:37	30.63
424							

Weekdays Truck Samples – BEFORE and AFTER bridge loss

BEFORE

	Trips (Vehicle type: Medium)	Trips (Vehicle type: Heavy)	Median Travel Time	Average Travel Time	95th Percentile Travel Time	5th Percentile Travel Time	Median Trip Distance (mi)
Trips	278	8	0:52:13	0:54:00	1:18:32	0:38:00	37.34
<u>193</u>	185	8	0:41:53	0:44:16	1:08:02	0:27:00	29.39
479							

Median pathway distances:
1 mile longer

AFTER

	Trips (Vehicle type: Medium)	Trips (Vehicle type: Heavy)	Median Travel Time	Average Travel Time	95th Percentile Travel Time	5th Percentile Travel Time	Median Trip Distance (mi)
Trips	269	5	0:55:31	0:57:59	1:23:05	0:41:08	38.21
<u>150</u>	144	6	0:49:49	0:53:18	1:20:13	0:32:37	30.63
424							





User Feedback Session, Q/A & Wrap Up



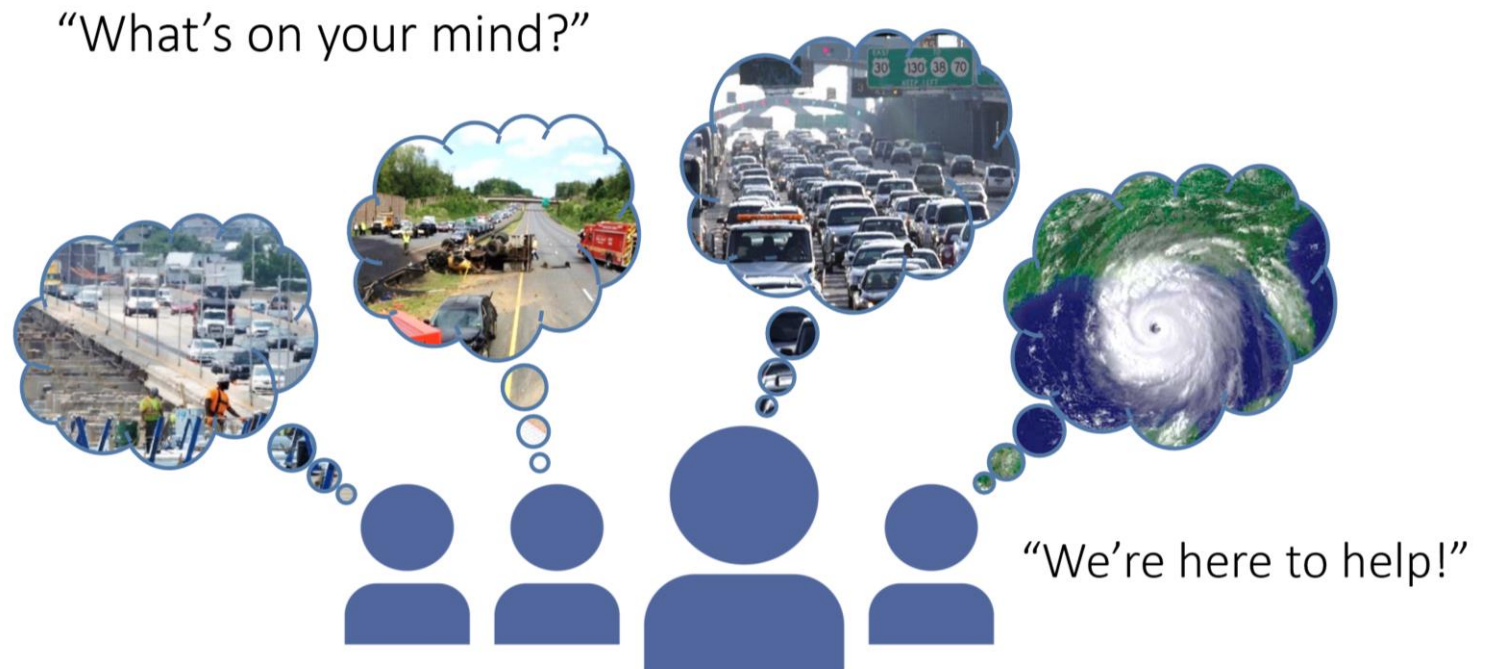
Michael Pack
Director
UMD CATT Lab



Jesse Buerk
Manager, Office of Capital Programs
DVRPC
RITIS User Group Co-chair

We want to hear from you!

- All features and functionality are driven by state/MPO users.
- You are welcome to join any of our User Groups / Working Groups / Listening Sessions to brainstorm/define these new features and functionality.
- You can also type your comments to us today either in the Q&A box or with an email to support@ritis.org

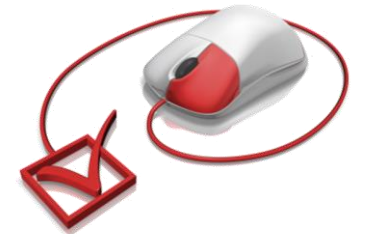


Agency Input – Polling and Open Discussion

Please type your answer under the question in the pop-up box.

Poll 4 - What kinds of things are you currently doing with RITIS - Planning/Ops, presentations, project/funding justification, etc.- that you'd be willing to share at a future meeting?

Poll 5 - Is there any topic you would like to see added to a future User Group meeting?



Wrap Up



Jesse Buerk

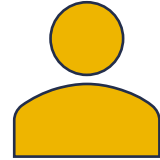
Manager, Office of Capital Programs

DVRPC

RITIS User Group Co-chair



Questions?



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