

RITIS User Group

Web Meeting | February 11, 2021

Web Meeting & Audio Information

- > Participants will be in “Listen Only” mode throughout the web meeting
- > Please press *0 to speak to an operator for questions regarding audio
- > Please call Justin for difficulties with the web or audio application
- > **This web meeting will be recorded**

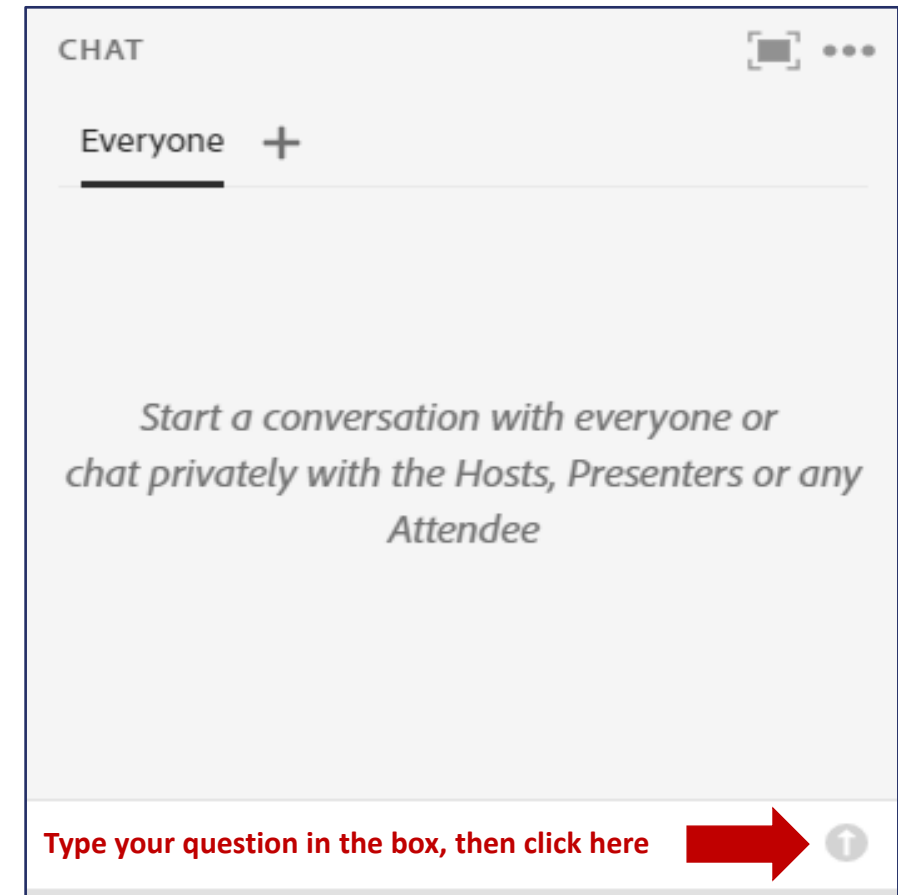


Make Comments & Ask Questions



IN THE CHAT BOX

- Please pose your questions using the **chat box**
- Questions will be monitored then answered by the speakers either at the end of their presentation or at the end of the web meeting



Coalition Update



Denise Markow

The Eastern Transportation Coalition
TSMO Director

— **THE EASTERN
TRANSPORTATION
COALITION**

CONNECTING FOR SOLUTIONS



Coalition Update

RECENT

- ✓ **Traveler Information Web Roundtable** – November 19, 2020
- ✓ **Traffic Data Marketplace (previously VPPIII) RFI Meetings** – December 2020
- ✓ **TVER Working Group: Tolling Apps - The Agency Perspective** – December 15, 2020
- ✓ **TSMO Web Meeting: Hurricane Traffic Volumes Pilot Results: States' Experience with Real-time Connected Vehicle Data** – January 28, 2021

UPCOMING

- ✓ **Traveler Info Services Virtual Summit** – April 1, 2021
- ✓ **RITIS User Group Web Meeting** – May 6, 2021



Welcome & Introductions



Matt Glasser

Assistant State Traffic Engineer, Georgia DOT
RITIS User Group Co-chair



Today's Meeting

Welcome and Introductions	Denise Markow, TETC
Spotlight Presentation: Transportation Energy Analytics Dashboard	Stan Young, NREL Mark Franz, UMD CATT Lab
New RITIS Tools and Recent Enhancements	Michael Pack, UMD CATT Lab
New RITIS Enhancement Working Group	Matt Glasser, Georgia DOT
Agency Input Session	Michael Pack, UMD CATT Lab
Wrap Up and Remaining Questions	Matt Glasser



Today's Speakers



Michael Pack
UMD CATT Lab
Director



Mark Franz
UMD CATT Lab
Faculty Specialist

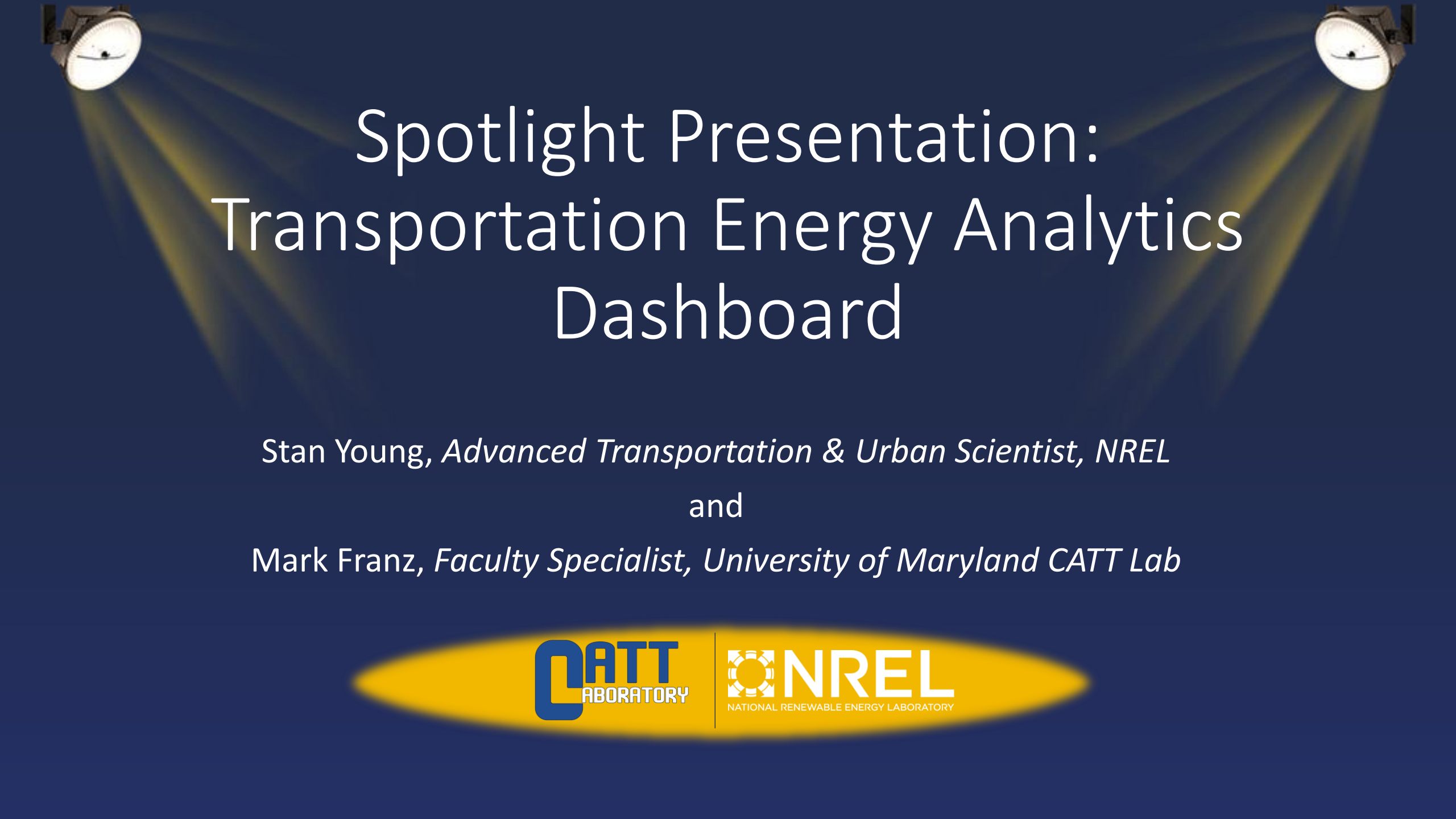


Stan Young
National Renewable Energy Lab
*Advanced Transportation & Urban
Scientist*

Meeting Participants

Agencies						
AECOM	City of Charlotte, NC	Georgia DOT	Macon-Bibb County Office of Planning & Zoning	MWVCOG	Old Colony Planning Council	Southern New Hampshire Planning Commission
AEM	City of Greensboro, NC	Georgia Office of Planning (RS&H)	Maricopa Association of Governments	Nashua Regional Planning Commission	Oregon DOT	Southwestern Pennsylvania Commission
Alexandria Transit Company (DASH)	City of Independence, MO	Gresham Smith	Maryland DOT	National Renewable Energy Laboratory	PANYNJ	State of Rhode Island - Division Planning
Arapahoe County	City of Springfield, MO	Gwinnett County	Maryland DOT-SHA	New Jersey DOT	Paulding County DOT	Tennessee DOT
Atkins	Connecticut DOT	Illinois DOT	Maryland Transportation Authority	New Jersey Sports & Exposition Authority	Pennsylvania DOT	Tri-County Regional Planning Commission
Atlanta Regional Commission	Cubic	INRIX	Massachusetts DOT	New York State Thruway Authority	Pennsylvania Turnpike Commission	University of Maryland
Auble LLC	District DOT	Iowa Northland Regional Council of Governments	Mead & Hunt	NJTPA	Pioneer Valley Planning Commission	University of Maryland CATT Lab
Autoreturn	Division of Statewide Planning	Iteris	Metric Engineering, Inc	North Carolina DOT	PlanRVA	University of Tennessee
Baltimore Metropolitan Council	Durham-Chapel Hill-Carrboro MPO	ITRE	Metropolitan Atlanta Rapid Transit Authority (MARTA)	North Carolina DOT (VHB)	Rhode Island DOT	US DOT/FHWA
Bartow County Government	DVRPC	Jacobs Engineering	Michigan DOT	North Central PA Regional Planning and Development Commission	Rockingham Planning Commission	Vermont AOT
Central Massachusetts Regional Planning Commission	FHWA	Kingsport Metro TPO	Montachusett Regional Planning Commission	Northern Virginia Transportation Authority	San Diego Association of Governments (SANDAG)	Virginia DOT
Central Texas Regional Mobility Authority	Florida DOT	Knoxville Regional TPO	Montgomery County (MD)	OCPC	Sensys Networks	
Chattanooga TPO	Florida's Turnpike Enterprise	Louisiana DOTD	Montgomery County Planning Department	Ohio DOT	SJTPO	
City of Centennial, CO	Gannett Fleming	Lowcountry Council of Governments	MWCOG	Ohio Turnpike and Infrastructure Commission	South Carolina DOT	





Spotlight Presentation: Transportation Energy Analytics Dashboard

Stan Young, *Advanced Transportation & Urban Scientist, NREL*

and

Mark Franz, *Faculty Specialist, University of Maryland CATT Lab*



Agenda

- TEAD Overview Team
 - Vision
 - Objectives
 - Framework
- **Demo**
- Future TEAD Roadmap / Enhancement
- Next Steps



The vision for TEAD ...

- Soon Energy and GHG will become as much a part of transportation planning as safety, congestion and travel time. TEAD integration with RITIS will bridge to that world.
- Though just a start – TEAD is envisioned to assess
 - Will state level policy goals for Electric vehicles have an impact on GHG?
 - How do we track both EV uptake, and its impact on emissions?
 - Will a proposal light-rail or BRT expansion be more impactful than incentivizing ZEV adoption?
 - To what extent is recurring congestion contributing to GHG and emissions on our roadway system?
 - Will investment in signal retiming have significant emissions benefits? ... or ...
 - How much GHG and emissions were saved from last years signal retiming effort?

TEAD Team

- Project Sponsor:
 - Department of Energy- Vehicle Technology Office (DOE-VTO)
- Principle Investigators:
 - Michael Pack (CATT Lab)
 - Stanley Young (NREL)
 - Mark Franz (CATT Lab)



DOE Funded Initial TEAD Objectives –



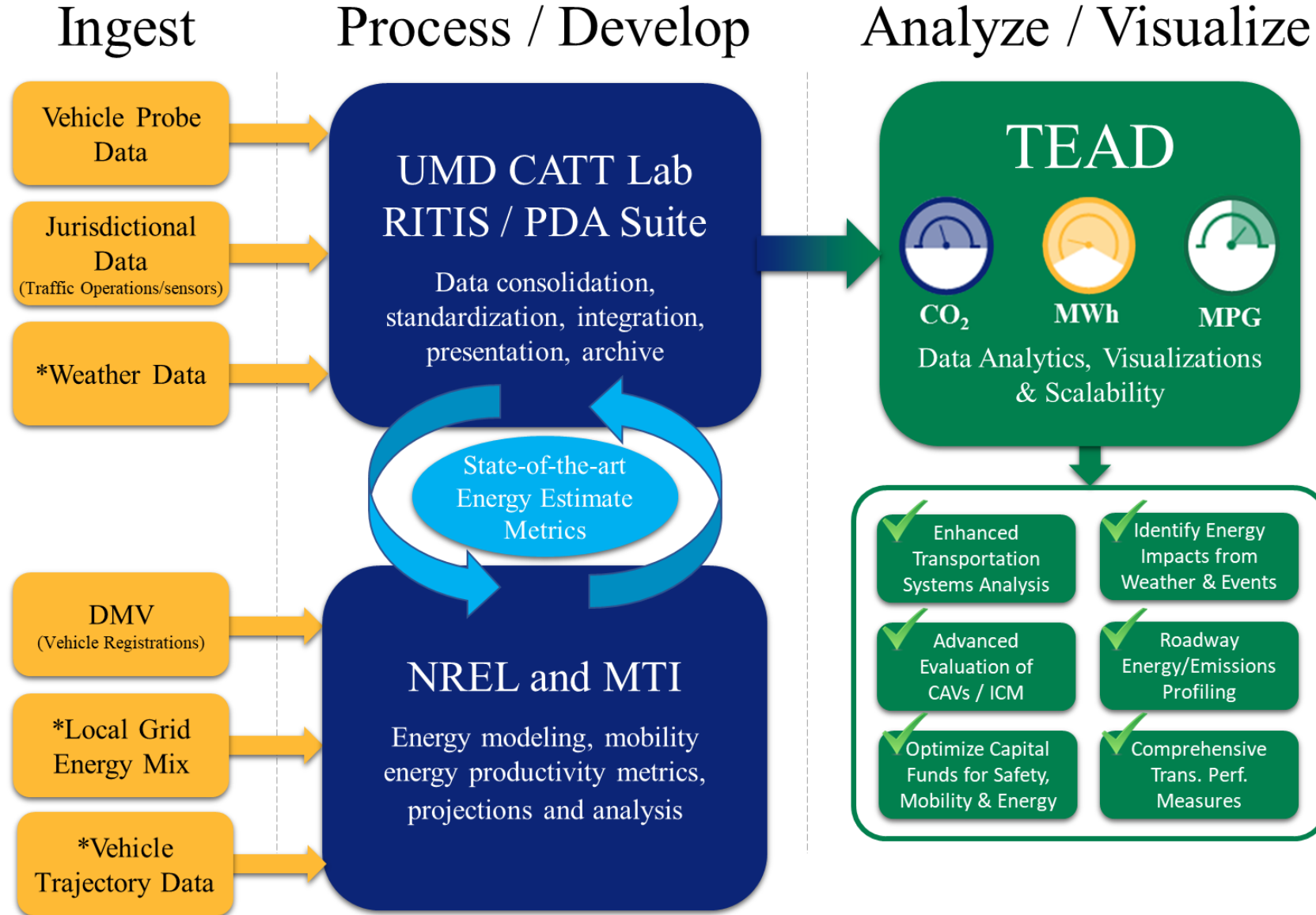
Objectives

1. Develop and validate methodologies for roadway energy and emissions metrics for historical, real-time, and near future predictive analysis
2. Create an online tool to measure and visualize transportation energy and emissions metrics
3. Demonstrate benefits via real-world case studies developed by transportation agency partners

Impact

- Real-time and predictive energy use and emissions tool to promote integration of sustainability into operational decisions
- Deep-dive historical tools to automate the development of key metrics and visualizations
- All work guided by end users to ensure end products are practice ready

TEAD Framework



Pilot Applications
1. Columbus, OH
2. Washington, DC

*indicates future enhancement



TEAD Tools



DASHBOARD

Create your own personal dashboards to monitor corridor performance in regions of interest.

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

Probe Data
Analytics Suite



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Dashboard

+ Add widget

Select a dashboard...



Energy and Emissions Table



Corridor	Energy Usage (Route-E)			Energy Usage (Bayesian Model)			CO2 Emissions			NOX Emissions		
	Historic Average	Current		Historic Average	Current	+2.5 Hours in the Future	Historic Average	Current	+2.5 Hours in the Future	Last Year	Current	+2.5 Hours in the Future
US-50 EB	186 BTUs/min	186 BTUs/min		186 BTUs/min	186 BTUs/min	200 BTUs/min	111 tons/min	112 tons/min	120 tons/min	111 tons/min	292 tons/min	120 tons/min
US-29 WB	182 BTUs/min	162 BTUs/min		192 BTUs/min	162 BTUs/min	164 BTUs/min	Energy use is expected to increase by 8% relative to the current condition			99 tons/min	98 tons/min	99 tons/min
I-395 EB	151 BTUs/min	148 BTUs/min		151 BTUs/min	148 BTUs/min	151 BTUs/min	70 tons/min	70 tons/min	70 tons/min	70 tons/min	12 tons/min	70 tons/min
I-295 NB	152 BTUs/min	152 BTUs/min		152 BTUs/min	152 BTUs/min	155 BTUs/min	92 tons/min	64 tons/min	62 tons/min	92 tons/min	82 tons/min	62 tons/min
DC-295 EB	149 BTUs/min	158 BTUs/min		179 BTUs/min	158 BTUs/min	149 BTUs/min	65 tons/min	67 tons/min	65 tons/min	65 tons/min	67 tons/min	65 tons/min
MD-650 WB	141 BTUs/min	140 BTUs/min		121 BTUs/min	140 BTUs/min	141 BTUs/min	82 tons/min	58 tons/min	57 tons/min	82 tons/min	72 tons/min	57 tons/min

Decrease of 5% or more
Increase of 5% or more

Showing 4 of 5 Metrics

Using NPMRDS (Truck and passenger vehicles) data.

Updated May 29, 2020 12:47 PM (39s ago)

Energy and Emissions Table



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I-395 EB	151 BTUs/min	148 BTUs/min		151 BTUs/min	148 BTUs/min	151 BTUs/min	70 tons/min	70 tons/min	70 tons/min	70 tons/min	12 tons/min	70 tons/min
I-295 NB	152 BTUs/min	152 BTUs/min		152 BTUs/min	152 BTUs/min	155 BTUs/min	92 tons/min	64 tons/min	62 tons/min	92 tons/min	82 tons/min	62 tons/min
DC-295 EB	149 BTUs/min	158 BTUs/min		179 BTUs/min	158 BTUs/min	149 BTUs/min	65 tons/min	67 tons/min	65 tons/min	65 tons/min	67 tons/min	65 tons/min
MD-650 WB	141 BTUs/min	140 BTUs/min		121 BTUs/min	140 BTUs/min	141 BTUs/min	82 tons/min	58 tons/min	57 tons/min	82 tons/min	72 tons/min	57 tons/min


Decrease of 5% or more
Increase of 5% or more

Showing 4 of 5 Metrics

Using NPMRDS (Truck and passenger vehicles) data.

Updated May 29, 2020 12:47 PM (39s ago)






ENERGY USE AND EMISSIONS MATRIX


View the breakdown of energy use and emissions by hour of day over a date range.

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Probe Data Analytics Suite



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Energy Use and Emissions Matrix - I-270 Northbound between I-270 (SPUR) and MD-121



Sunday, August 16, 2015 to Friday, August 21, 2015

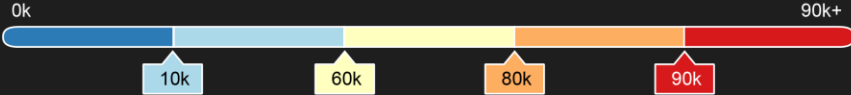
Vehicle Type

All


Display

Total Energy Use (Route-E)

Total Energy Usage (BTUs)



No data

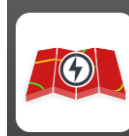


Energy Use in BTUs

Using the Route-E Model

	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 AM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	Daily Totals
Sun 8/16/15	0.2k	0.1k	0.1k	0.1k	0.1k	0.2k	0.2k	0.0k	0.1k	0.0k	0.1k	10.4k	0.1k	0.2k	14.4k	0.5k	0.5k	18.6k	21.1k	14.3k	22.5k	10.8k	40.1k	50.2k	Sun 27.7k
Mon 8/17/15	0.4k	0.1k	0.1k	0.2k	0.1k	0.1k	0.3k	22.7k	18.8k	0.3k	0.2k	0.0k	0.1k	0.2k	0.3k	18.0k	12.3k	17.5k	15.4k	0.0k	0.1k	0.2k	0.2k	0.2k	Mon 58.5k
Tue 8/18/15	0.1k	0.2k	0.1k	0.0k	0.0k	11.1k	0.0k	0.0k	5.2k	0.2k	0.1k	0.3k	0.1k	0.4k	0.1k	13.0k	19.3k	85.0k	19.2k	0.0k	0.1k	0.1k	0.2k	0.1k	Tue 49.6k
Wed 8/19/15	0.1k	0.1k	0.1k	0.1k	0.0k	0.2k	0.2k	17.7k	9.6k	0.9k	0.2k	0.1k	0.1k	0.1k	11.7k	10.0k	19.8k	19.0k	19.3k	15.9k	0.2k	0.2k	0.3k	0.2k	Wed 71k
Thu 8/20/15	0.1k	0.0k	0.1k	0.2k	0.2k	15.7k	10.5k	12.3k	19.2k	12.0k	0.2k	0.4k	17.1k	18.7k	13.7k	85.2k	86k	93.1k	90.4k	81.2k	12.8k	0.3k	0.2k	0.1k	Thu 315.7k
Fri 8/21/15	0.1k	0.0k	0.1k	0.0k	0.0k	0.1k	0.1k	83.7k	82.1k	13.2k	10.6k	10.6k	11.1k	17.6k	81k	85.7k	69.4k	83.9k	12k	15.3k	0.2k	0.2k	0.4k	0.2k	Fri 197.6k
Hourly Totals	0.9k	0.6k	0.6k	0.6k	0.4k	3.6k	11.3k	36.4k	55k	6.5k	1.3k	1.9k	8.8k	17.1k	26.1k	72.1k	107.3k	192.2k	134.3k	32.8k	5.9k	1.8k	1.3k	0.9k	Grand Total 720, 071

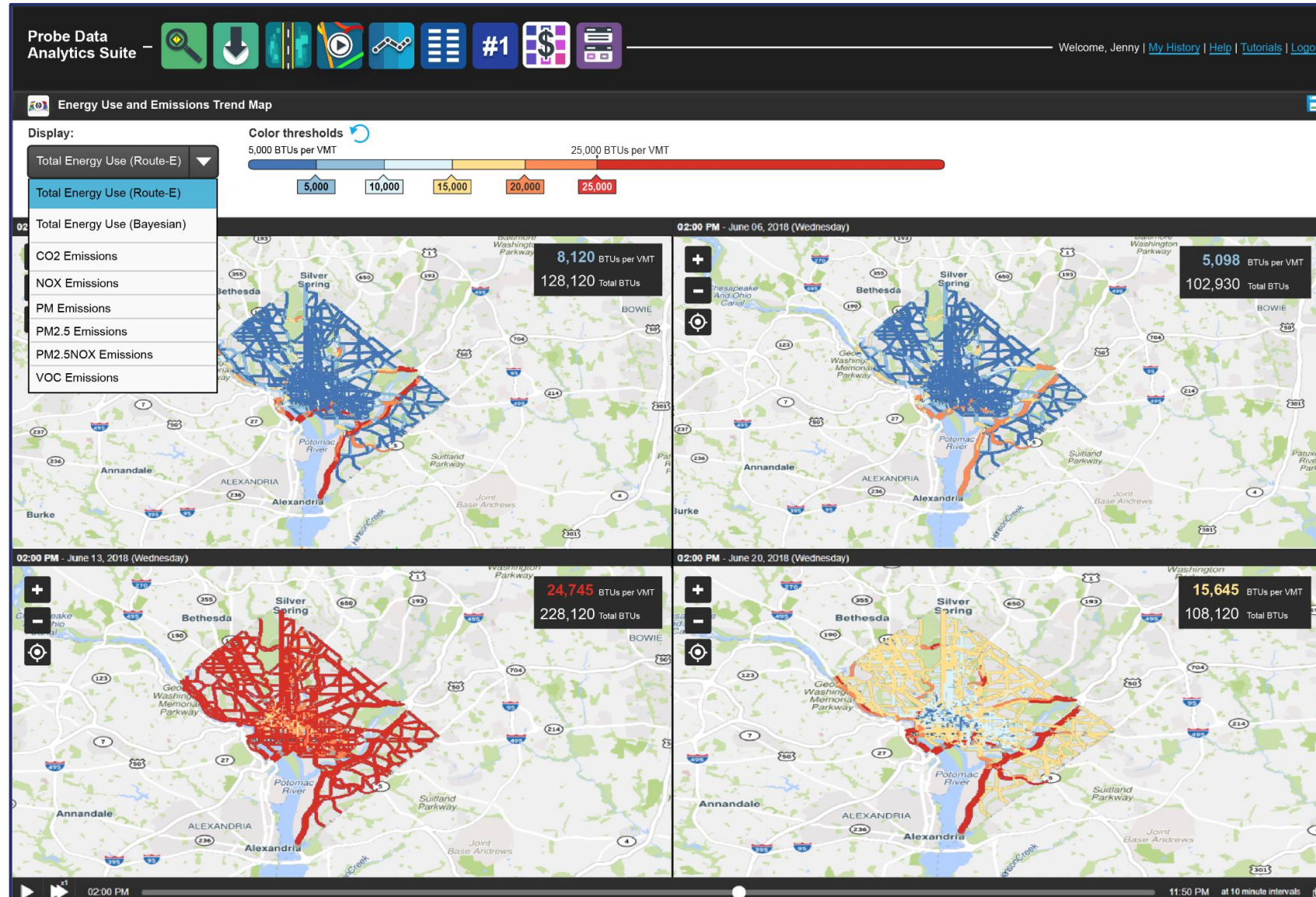
TEAD Tools




ENERGY USE AND EMISSIONS TREND MAP

Create animated maps showing changes in energy use and emissions.

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ENERGY USE AND EMISSIONS CHARTS


Chart the historical change in energy use and emissions.

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Energy Use and Emissions Charts - I-270 Northbound between I-270 (SPUR) and MD-121



Sunday, August 16, 2015 to Friday, August 21, 2015 (6 Days)



Metric

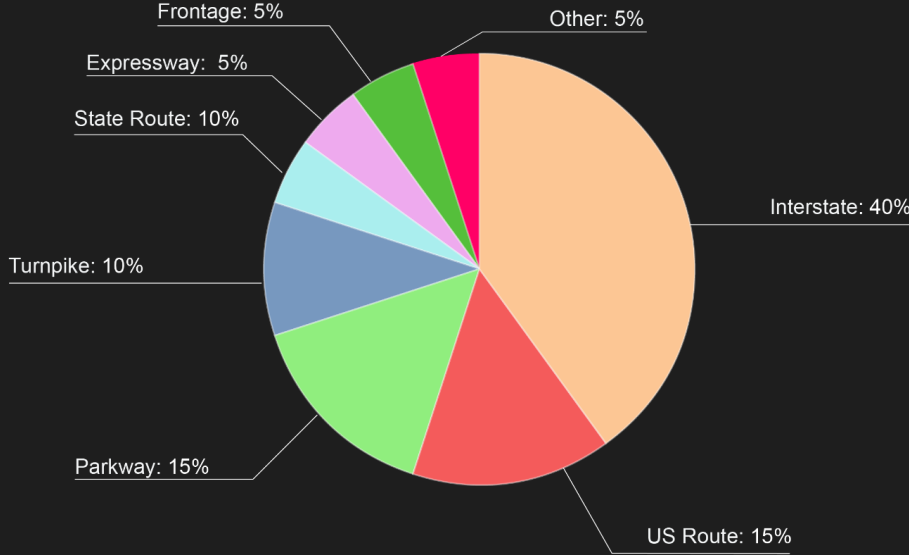
Breakdown By

Total Energy Use (Route-E)

Road Class

☐ Percentages ☒ Numbers

Total Energy Use in BTUs (Route-E) by Road Class



Road Class	Road Mileage	BTUs	VMT	BTUs / VMT
Interstate	1,320.1 mi	287.18k	8,348,613	27,300
U.S. Route	874 mi	99.2k	6,345,657	13,142
Turnpike	431 mi	79.2k	4,296,231	7,060
State Route	212 mi	29.2k	3,213,132	3,470
Expressway	123.1 mi	23.2k	1,252,800	1,410
Frontage	87 mi	24.4k	1,123,472	1,400
Other	32 mi	21.3k	732,300	982



VEHICLE OWNERSHIP CHARTS

Chart vehicle ownership by zip code on a yearly basis.

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Vehicle Ownership Charts

Layout



Y axis label

☐ Above axis ☒ Centered on axis

Map

Show Map...

Tooltips

Clicking a chart item will lock tooltips at that interval on each chart.

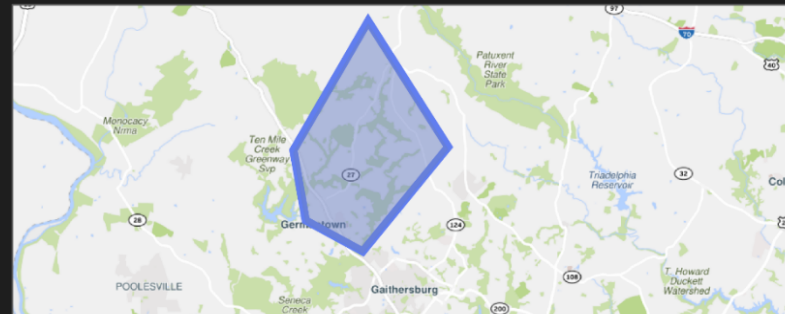
Remove all tooltips

Chart data

- ☒ Hybrid
- ☒ Plug-In Electric
- ☒ Leaded (Diesel)
- ☒ Unleaded

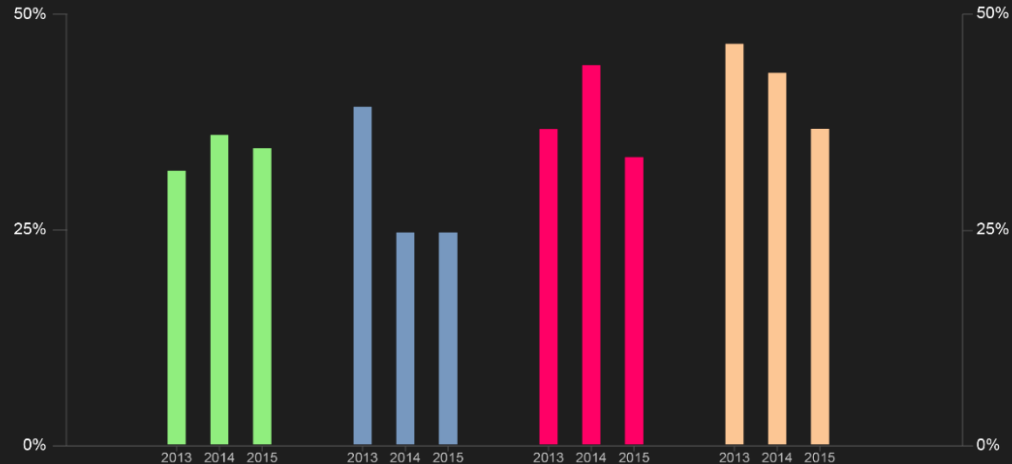
20876

Averaged yearly from 2013 to 2015



All Vehicle Types

Percent of Vehicles



TEAD Next Steps

GET MORE ETC Members access to TEAD!!!

Pursuing TEAD Enhancement funding for:

1. Refined **FREIGHT** vehicle energy use and emission modeling
2. **SIGNALIZED INTERSECTION** energy use and emission modeling
3. Integrate real-time volume estimation
4. Integrate road grades into modeling
5. Extensive state motor vehicle registration data for vehicle/powertrain types
6. Sources of excessive energy/emissions pie charts
7. **MOBILITY ENERGY PRODUCTIVITY**



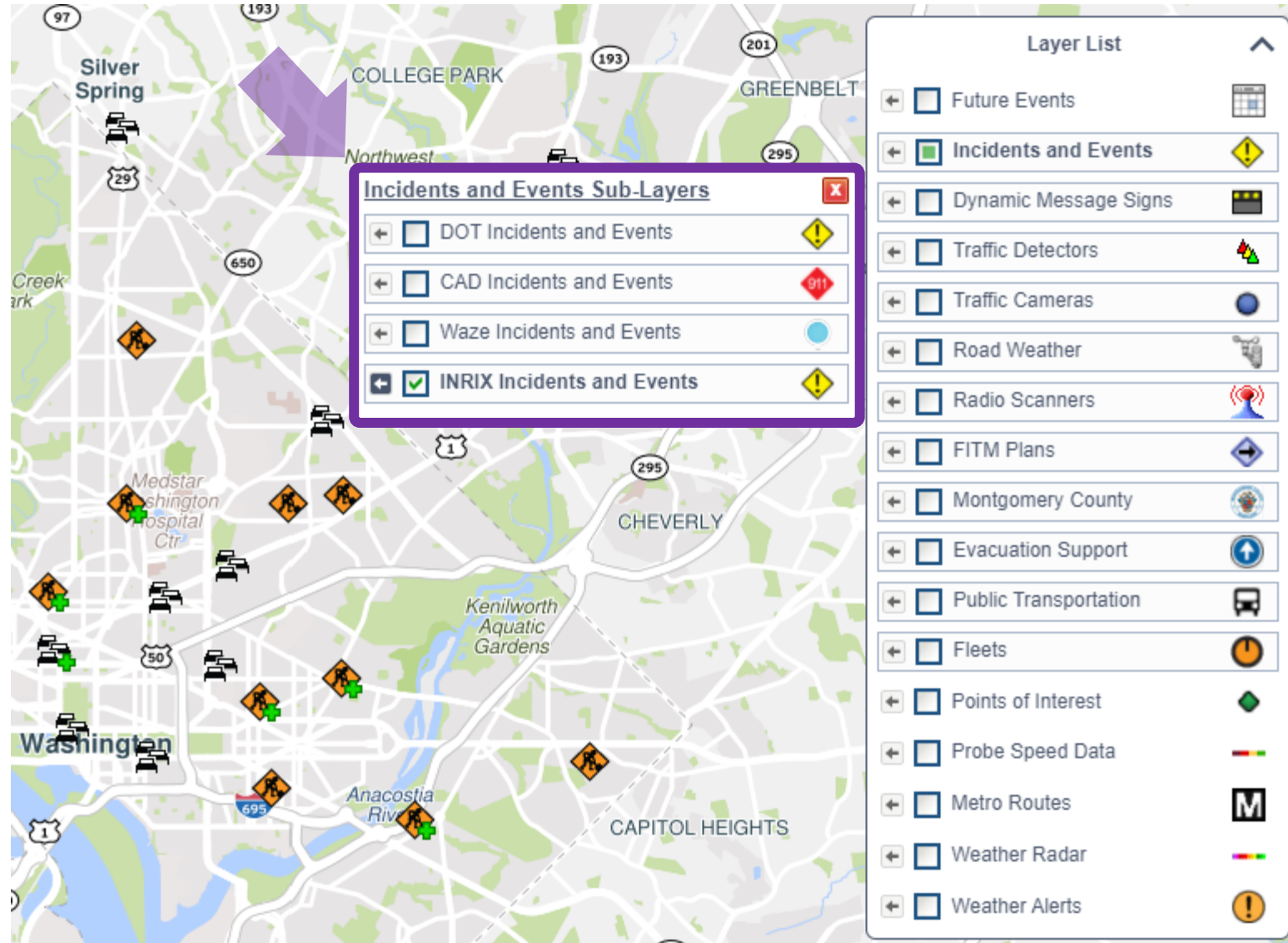
New RITIS Tools and Recent Enhancements



Michael Pack
UMD CATT Lab
Director


RITIS

1. Added a feature for administrative power users to more easily filter and close active events, replicating how events are filtered elsewhere in RITIS.



RITIS

2. Added additional video tutorials to the help page for Trip Analytics Segment Analysis, Route Analysis, and Trip Analytics OD Matrix.




TRIP ANALYTICS – SEGMENT ANALYSIS

Trip Analytics - Segment Analysis

The Segment Analysis module will find all trips that traverse a user defined stretch of roadway for a specified date and time range. The results will generate a map-based visualization and OD matrix of where drivers began and ended their trips.

keywords: mobility CATT Lab RITIS Big Data Trip OD matrix Origin destination

13 May 2020 10:46




TRIP ANALYTICS – ROUTE ANALYSIS

Trip Analytics - Route Analysis

In today's era of "big" data, Trip Analytics and the Route Analysis tool in particular, provide transportation planners and operators data-driven insights to the route and corridor patterns that passenger and freight vehicles take from and to various geographies.

keywords: CATT Lab OD origin destination Big data modeling Travel demand Trip Analytics RITIS Route analysis

28 Oct 2020 21:24



TRIP ANALYTICS – OD MATRIX

Trip Analytics - OD Matrix

The OD Matrix tool generates geography-to-geography trip tables based on trip start and endpoints. Zones can be a county, sub-county, or TAZ. Users can filter by date range, time-of-day, day-of-week, and by vehicle class.

keywords: chord diagram transportation modeling transportation mobility CATT Lab RITIS Trips Trip Analytics origin destination OD Matrix

6 Jul 2020 10:58

3. Filters panel in Detector Data Downloader now includes an option to filter detectors by county.

The screenshot displays the RITIS Detector Data Downloader interface. On the left, a 'Detectors' panel shows a list of filters: FDOT (1,803), MDX (472), District 6 (948), FTE (313), and District 4 (70). Below this is an 'Export Options' section with a date range selector (12/17/2020 - through - 12/17/2020) and a 'Select days of week' option. The main area is a map of Miami and surrounding areas, with numerous detector locations marked by numbered circles. A 'Filters' dialog box is open in the center, allowing users to refine their search. The dialog includes options for 'Data provider is', 'Region is', 'Road is', 'County is', and 'Direction is'. The 'County is' option is selected, and 'Miami' is entered in the text field. A purple arrow points from the text in the section header to the 'County is' option in the filter dialog. The dialog also features 'RESET ALL FIELDS', 'APPLY', and 'CANCEL' buttons.

4. A new data source selection interface was added to the Event Query Tool to provide more granular state-level control when selecting data sources.

The Event Query Tool allows you to query for events during a specific time range, for specific agencies, and within specific geographies. If you only want to look at specific event types, the option to query for any number of events by type is also available. After running your query you will get a number of different visualizations to explore the applicable events.

DATA SOURCES

☒ United States ☐ International

United States

- ▶ Alabama
- ▶ Alaska
- ▶ Arizona
- ▶ Arkansas
- ▶ California
- ▶ Colorado
- ▶ Connecticut
- ▶ Delaware
- ▶ District of Columbia
- ▶ Florida
- ▶ Georgia
- ▶ Hawaii
- ▶ Idaho
- ▶ Illinois
- ▶ Indiana
- ▶ Iowa
- ▶ Kansas
- ▶ Kentucky
- ▶ Louisiana
- ▶ Maine
- ▼ Maryland
 - ☐ All Maryland Data Sources
 - ☐ HERE Hazard Warnings
 - ☐ Howard County CAD
 - ☐ MDOT CHART (Maryland DOT)
 - ☐ Prince George's County, Maryland (CAD Center)
 - ☐ Prince George's County, Maryland (TRIP Center)
 - ☐ WMATA (Washington Metropolitan Area Transit Authority)
 - ▶ Massachusetts

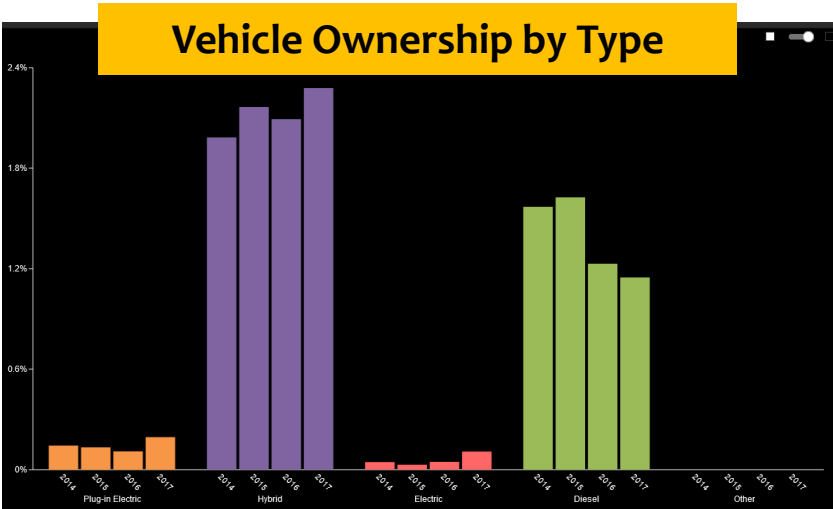
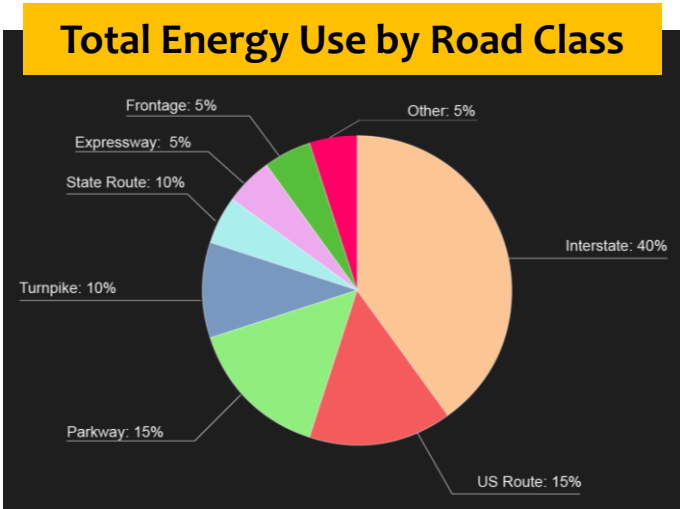
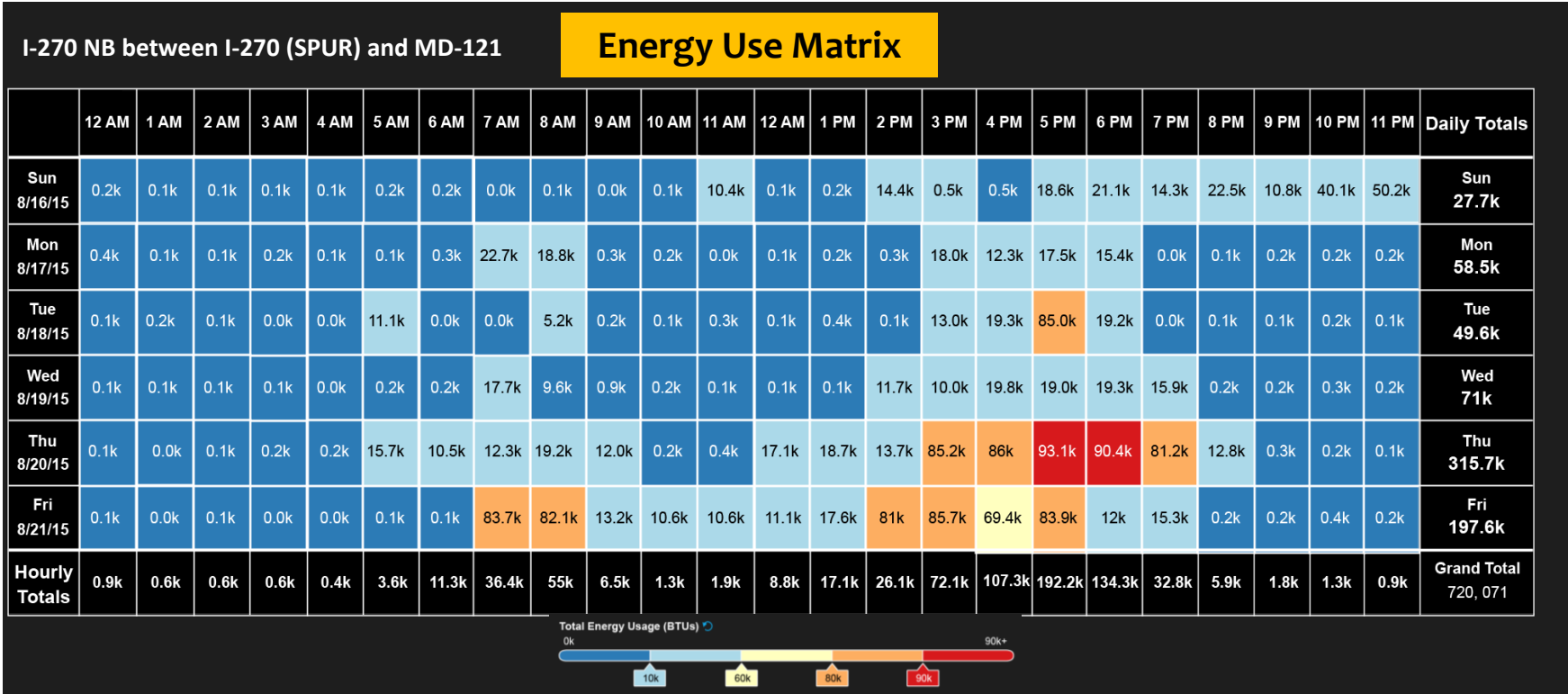
RITIS

5. The WZPMA Current Conditions pane on the work zone profile page has been improved on single direction road segments to only show information relevant to the travel direction of the segment.



PDA Suite

- 1. Various small enhancements and minor bug fixes
- 2. Release of the Energy Use and Emissions Tools



PDA Suite

3. Temporal Comparison Maps allows you to analyze how conditions have changed between (up to) seven different time periods, performance metrics and times of day.

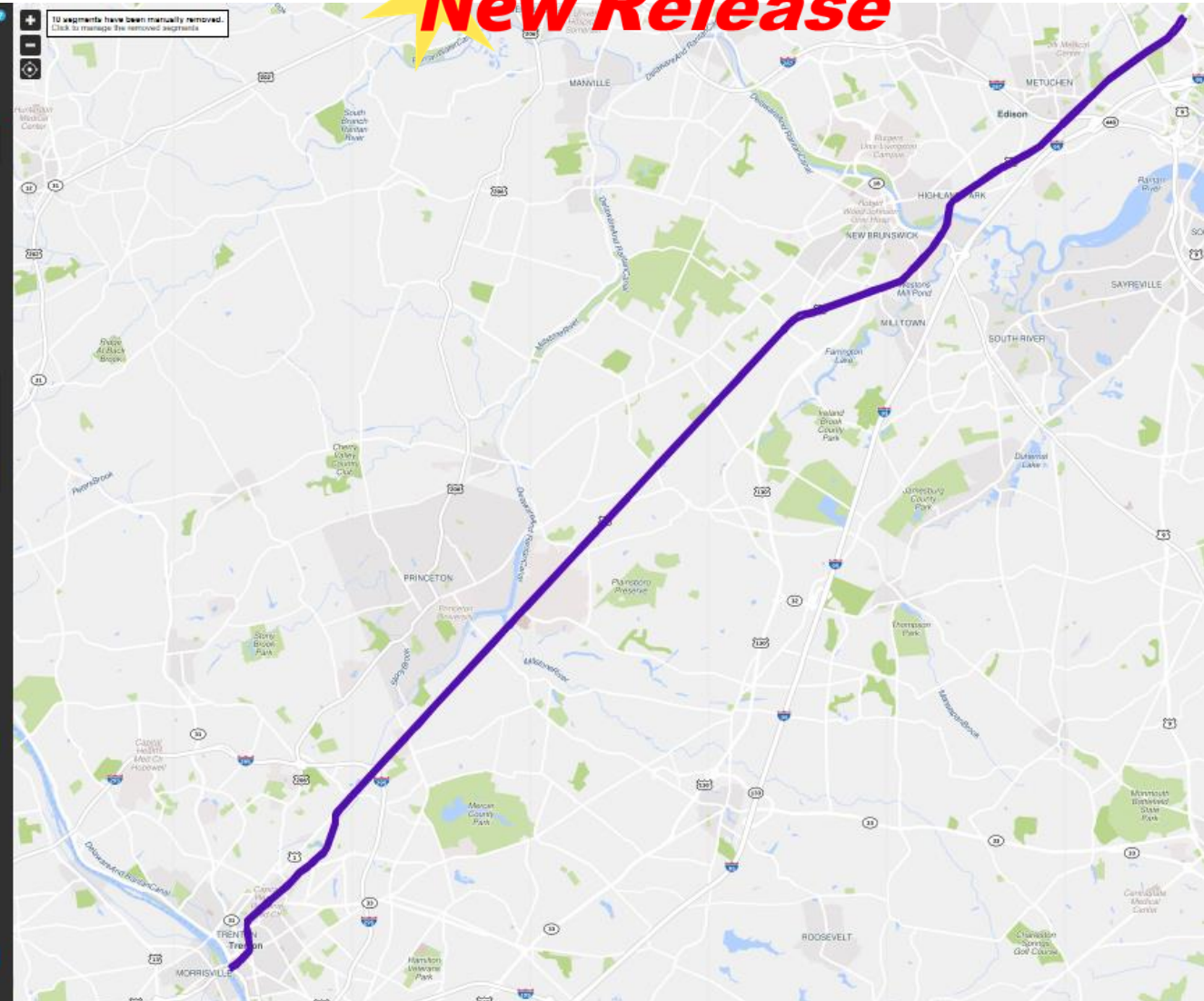
Temporal Comparison Maps
Analyze performance metrics of any road segment by one or more time ranges.

1. Select roads
TMC segments from INRIX
Road: Segment: Map: Saved: Advanced
Search in New Jersey...
Your selected roads: US-1
Directions: ☒ Northbound ☒ Southbound
Intersections: 42
☒ Entire ☐ Partial
72 miles of roadway selected (146 TMC segments)
[Show segment IDs] [Save as segment set]

2. Select one or more time periods to analyze
Days: Month: Year
02/03/2020 - Through - 02/07/2020
☐ Create a single time period for this range
☐ Limit to specific days of the week
☒ Create a time period for each day within this range
[Add time period]
Your selected time periods:
February 04, 2019 through February 08, 2019 (5 days)
February 03, 2020 through February 07, 2020 (5 days)

3. Select time ranges to analyze within each time period
☒ AM Peak (8AM - 10AM)
☐ Midday (10AM - 4PM)
☒ PM Peak (4PM - 8PM)
☐ Daily (8AM - 8PM)
☐ Truck Overnight (8PM - 6AM)
☐ Custom Time Range
12:00 AM 12:00 PM 12:00 AM
12:00 AM 12:00 AM
[Add another time range]

4. Select data sources
☒ INRIX
☐ HERE
☐ TomTom
☐ NPMRDS from INRIX (Passenger vehicles)
☐ NPMRDS from INRIX (Trucks and passenger vehicles)
☐ NPMRDS from INRIX (Trucks)
☐ NPMRDS from HERE (Passenger vehicles)
☐ NPMRDS from HERE (Trucks and passenger vehicles)
☐ NPMRDS from HERE (Trucks)
[SUBMIT]

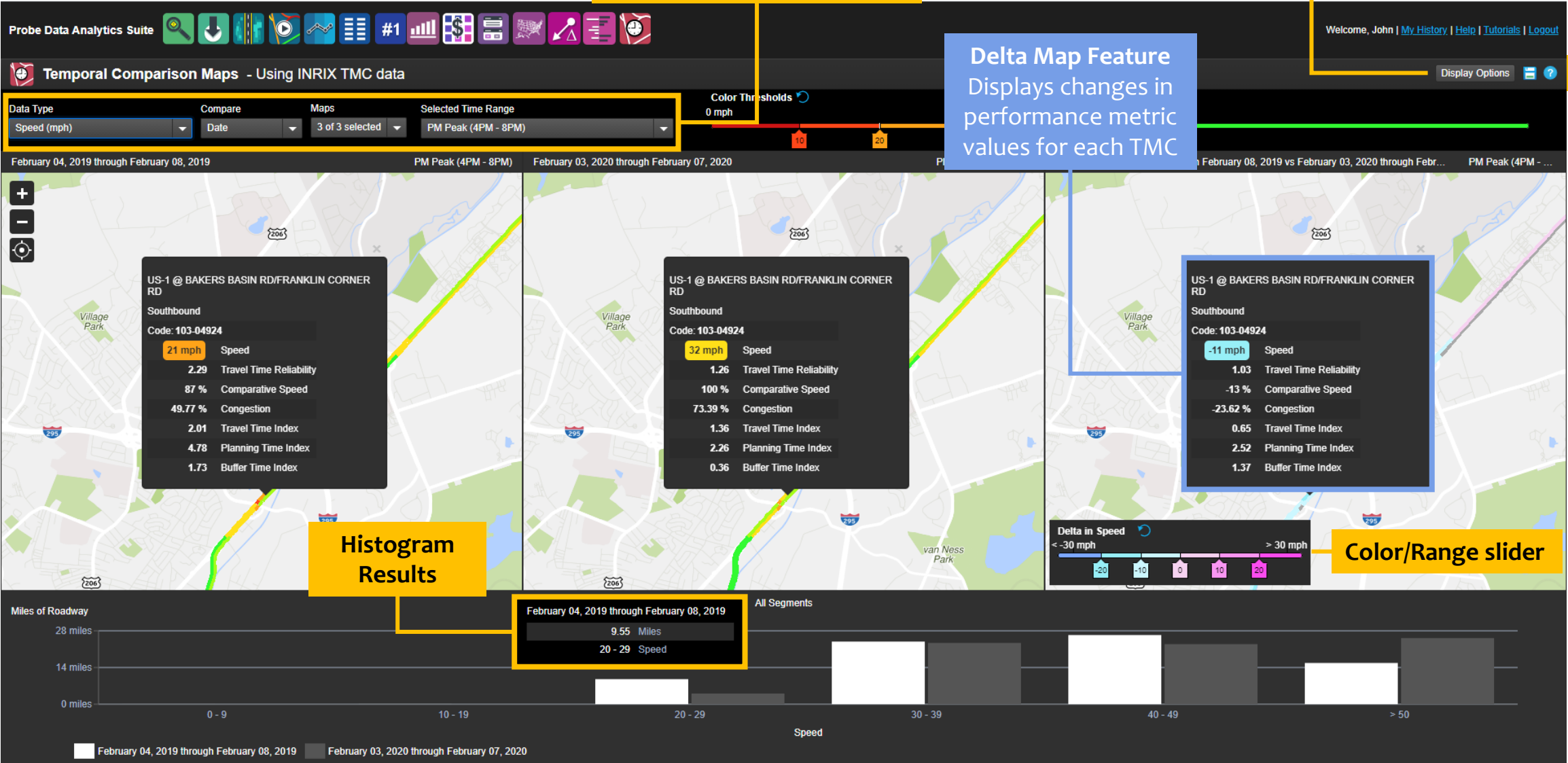


PDA Suite

Performance Metric & Temporal Drop-down bars

Map Layout, Histogram, Save As, Help

Delta Map Feature
Displays changes in performance metric values for each TMC




Performance Reporting (work-in-progress)

4. Developing a space on PDA Suite to house Performance Reporting Templates

Probe Data Analytics Suite

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Templates




Corridor Performance Report

Use this 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.

RITIS Tools Used in Report

- Performance Charts
- Congestion Scan
- Performance Summaries




Monthly Congestion Report

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

RITIS Tools Used in Report

- #1 Bottleneck Ranking
- Performance Charts
- Performance Summaries




Before and After Study

Use this template to create a report that describes the performance of a roadway or corridor before and after an operational or capital improvement project.

RITIS Tools Used in Report

- Performance Charts
- #1 Bottleneck Ranking
- Performance Summaries
- User Delay Cost




After Action Review

Use this template to create an after action review of a major incident.

RITIS Tools Used in Report

- Event Query Tool
- Incident Timeline
- Trend Map
- Performance Charts
- User Delay Cost



Holiday Travel Advisory

Use this template to create an infographic that predicts holiday travel conditions based on previous years.

RITIS Tools Used in Report

- Performance Charts
- Trend Map
- Congestion Scan
- #1 Bottleneck Ranking
- Event Query Tool

More to come...

CONCEPT - SUBJECT TO CHANGE

Performance Reporting (work-in-progress)

5. Access and download Report Templates, How-to Guides & DesignSheets, and view agency use cases, all in one location

The screenshot displays the 'Probe Data Analytics Suite' interface. At the top, a navigation bar includes a search icon, a download icon, and a list of icons representing different data analysis tools. The main content area is divided into several sections:

- Templates:** A sidebar on the left lists available templates: Corridor Performance Report, Monthly Congestion Report, Before and After Study, After Action Review, Holiday Travel Advisory, and Design Sheets.
- After Action Review:** A central section featuring a large image of a truck accident. Text describes the report's purpose: 'Use this report to create an after-action review of a major incident or special event.' Below this, a 'Use for:' section includes checkboxes for Planning, Operations, Research, Traveler Info, and Emergency Preparedness.
- RITIS Tools Used in This Report:** A grid of six circular icons representing tools: Incident Timeline, Event Query Tool, Region Explorer, Trend Map, Performance Charts, and User Delay Cost. A link 'Learn about other RITIS tools here' is provided.
- Agency Use Cases:** A section on the right with a bullet point linking to 'Woodrow Wilson Bridge Collision'.
- Resources (click to download):** A section at the bottom containing three cards:
 - Report Template:** Labeled with a '2' in a circle, it shows a 'MATOC' report cover and describes its use for building reports with agency data and RITIS-generated summaries.
 - How-to Guide:** Titled 'Building a Performance Summary Report', it includes a 'AAR After Action Review' logo and a three-step process: 'Decide on a layout', 'Add your information', and 'Share your report'.
 - DesignSheets:** Features a 'CATT LABORATORY' logo and describes 'Improved communication & better insight through RITIS' by using DesignSheets to create charts, graphics, and tables.

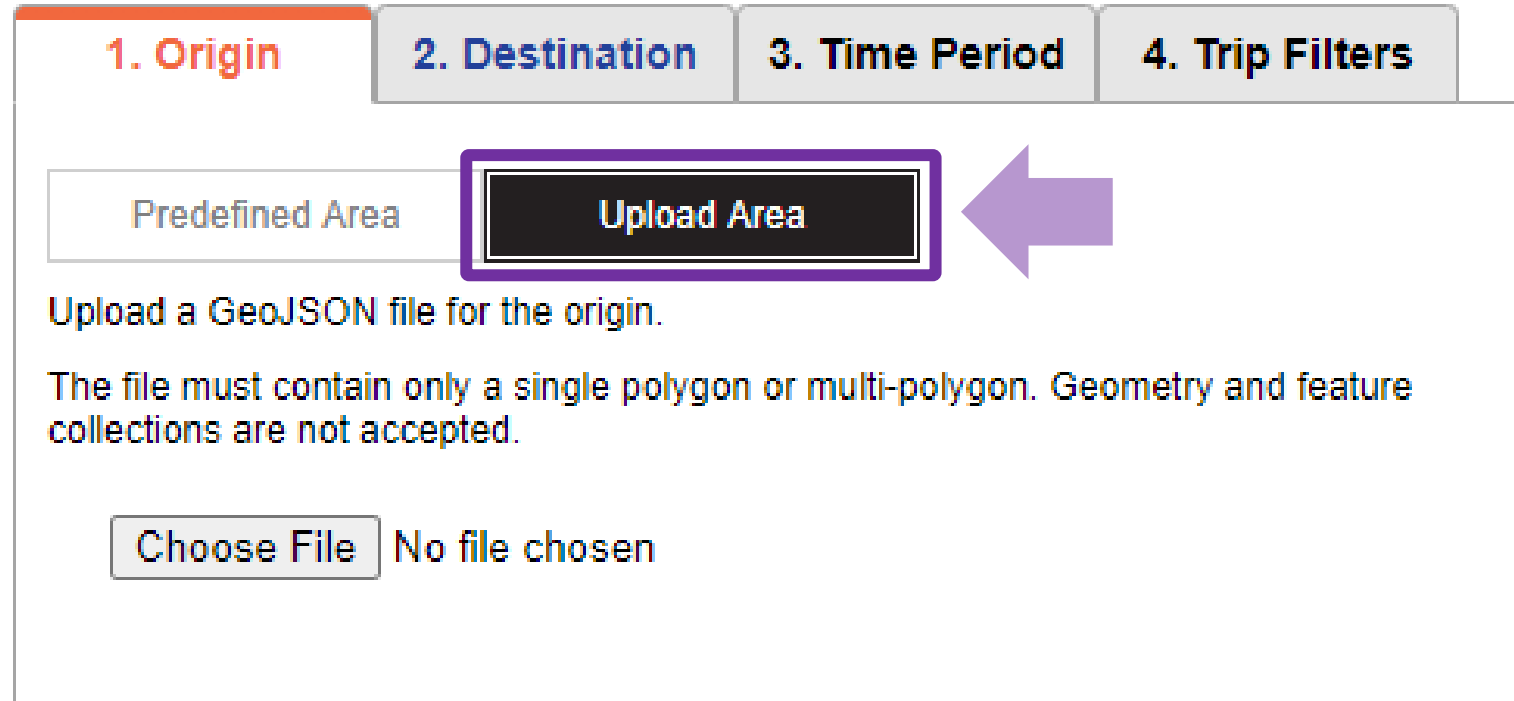
Reminder

On March 9, 2021 the Probe Data Analytics Suite will no longer support Internet Explorer. Please switch to Chrome, Edge, or Firefox before then.



Trip Analytics

1. Various bug fixes and functionality improvements across the tools (OD Matrix, Segment Analysis, Route Analysis)
2. You can now define a custom analysis area by uploading a GeoJSON file (most GIS software have an option to export to GeoJSON)



1. Origin 2. Destination 3. Time Period 4. Trip Filters

Predefined Area **Upload Area**

Upload a GeoJSON file for the origin.

The file must contain only a single polygon or multi-polygon. Geometry and feature collections are not accepted.

Choose File No file chosen

Common Operating Platform

1. New Help pages clearly explain every widget and function

5:00 PM 03/28/19 Help Page

General Information

Data Set

Visualizations

- Regional Summary
- Highest Impact Events
- Roads
- Transit
- Aviation
- Port of Baltimore
- MVA

Aviation

Aviation Page

The Aviation Page shows an overview of real-time conditions of airports in Maryland.

03:18 PM 11/13/20

Welcome Cathlin Logout

Real Time Data Feed

BWI Marshall Airport @BWI_Airport about 3 hours ago

What's not to love about yesterday's rare visitor? Take a look at the @AlaskaAir. More to Love aircraft! #ScenicBWI #MDOTscenic #avgeek #planespotting https://t.co/83OKGND0rI

BWI Marshall Airport @BWI_Airport 1 day ago

The @SouthwestAir team yesterday hosted a group of travel professionals to showcase #COVID19 mitigation efforts at BWI Marshall Airport. Attendees learned of extensive cleaning measures, changes to the security checkpoint and in-flight experience. #safertravels #MDOTsafety https://t.co/7AwxH52IR

Aviation

FAA Status 1

Normal

Weather Advisories 2

None

Arrival / Departure Flights 3

138 Total arrivals 106 Total departures

Roads to and from Airport 4

I-195

Inbound Queue Length No Data Inbound Wait Time 0m 00s Better than Avg Inbound 0.95 TTI Outbound 1.03 TTI

MD-170

Inbound Queue Length No Data Inbound Wait Time 0m 35s Worse than Avg Inbound 1.02 TTI Outbound 1.17 TTI

Parking Availability 5

Hourly Garage 57% 2868 spaces

Daily Garage 40% 3348 spaces

Express Parking --% -- spaces

Long Term Lot A --% -- spaces

Long Term Lot B --% -- spaces

Arrivals Log 8

Flight No.	Updates	Sched.
900 Southwest	2:25 PM At Gate	1:10 PM Gate: A4
194 Southwest	1:05 PM Bags In	1:15 PM Gate: B7
13073	12:45 PM	1:20 PM

Departures Log

Flight No.	Updates	Sched.
2256 Spirit Airlines	1:19 PM Departed	12:49 PM Gate: D12
837 Southwest	1:23 PM Departed	1:15 PM Gate: B5
415	1:19 PM	1:15 PM

Events near Airport 6

Incident @ I-195 SOUTH/AT MP 8.1 (TOLL PLAZA/TOLL LANE 12 [Collision, Property Damage])

Action Event @ I-195 EAST/WEST PAST MD 170 (BWI PARKING)

No lane status

Action Event @ BROENING HW EAST/WEST AT NORTH SERVICE RD (PORT OF BALTIMORE - MARYLAND PORT ADMINISTRATION)

No lane status

Passenger Waiting Time 7

By Concourse

	General	Priority	TSA Pre.	Clear
A	Closed	Closed	Closed	Closed
B	5 m	2 m	1 m	2 m
C	3 m	1 m	Closed	1 m
D/E	4 m	2 m	1 m	2 m

Roads To and From Airport

The Roads To and From Airport section highlights conditions of major roads going to and from the airport.

The two major roads to and from BWI airport

I-195

Queue Length 10.4 miles

Wait Time 15 m 31s

170

Queue Length 4.4 miles

Wait Time 07 m 09s

Queue length of road

Wait time of road based on queue length

Travel Time Index Gauges

Low travel time index means lower avg additional time to travel on nearby roads.

Travel time index is represented as a percentage of the ideal travel time (Travel Time / Free-Flow Travel Time).

The higher the TTI, the higher the avg additional time to travel on roads.

Click on the links below to scroll to the corresponding section:

- 1 FAA Status
- 2 Weather Advisories
- 3 Arrival / Departure Flights
- 4 Roads To and From Airport
- 5 Parking Availability
- 6 Events Near Airport
- 7 Passenger Waiting Time
- 8 Arrival and Departure Log



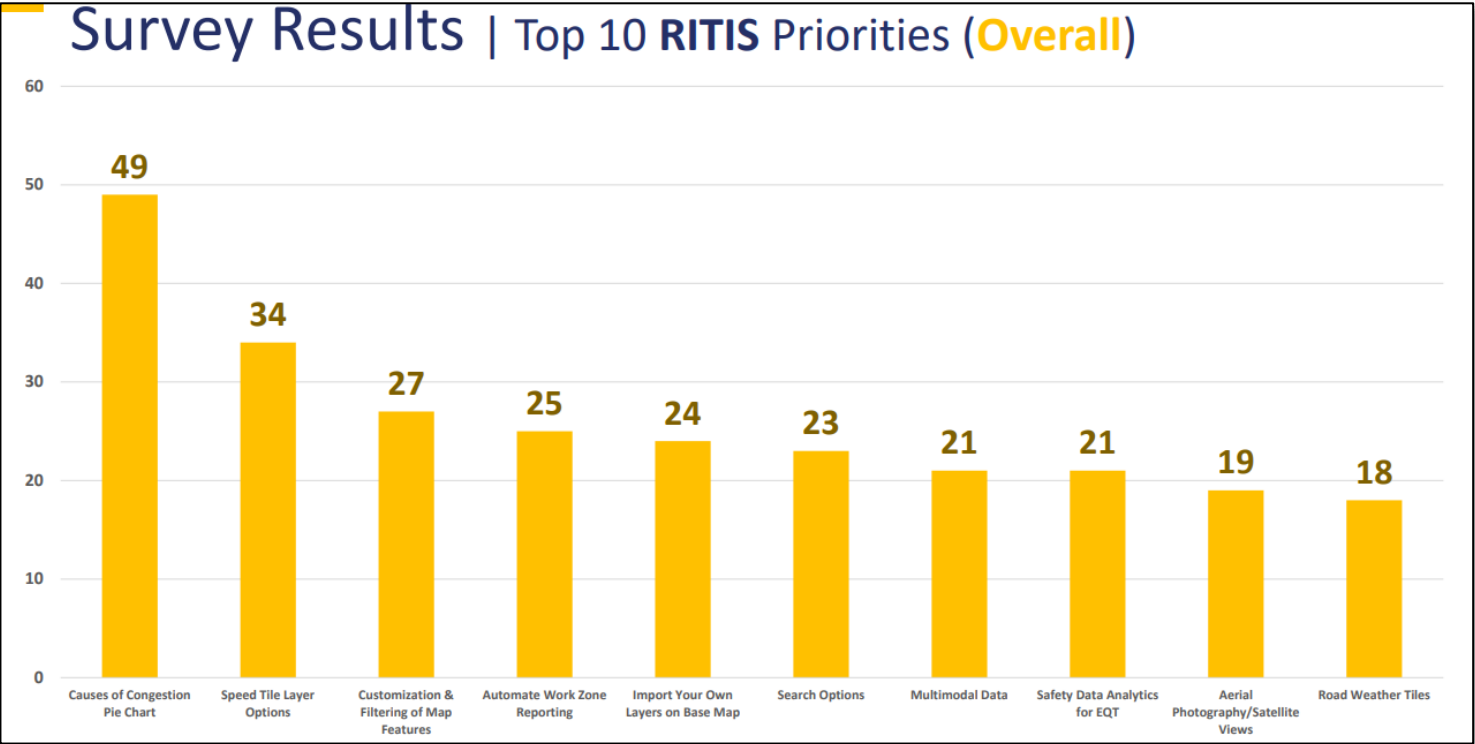
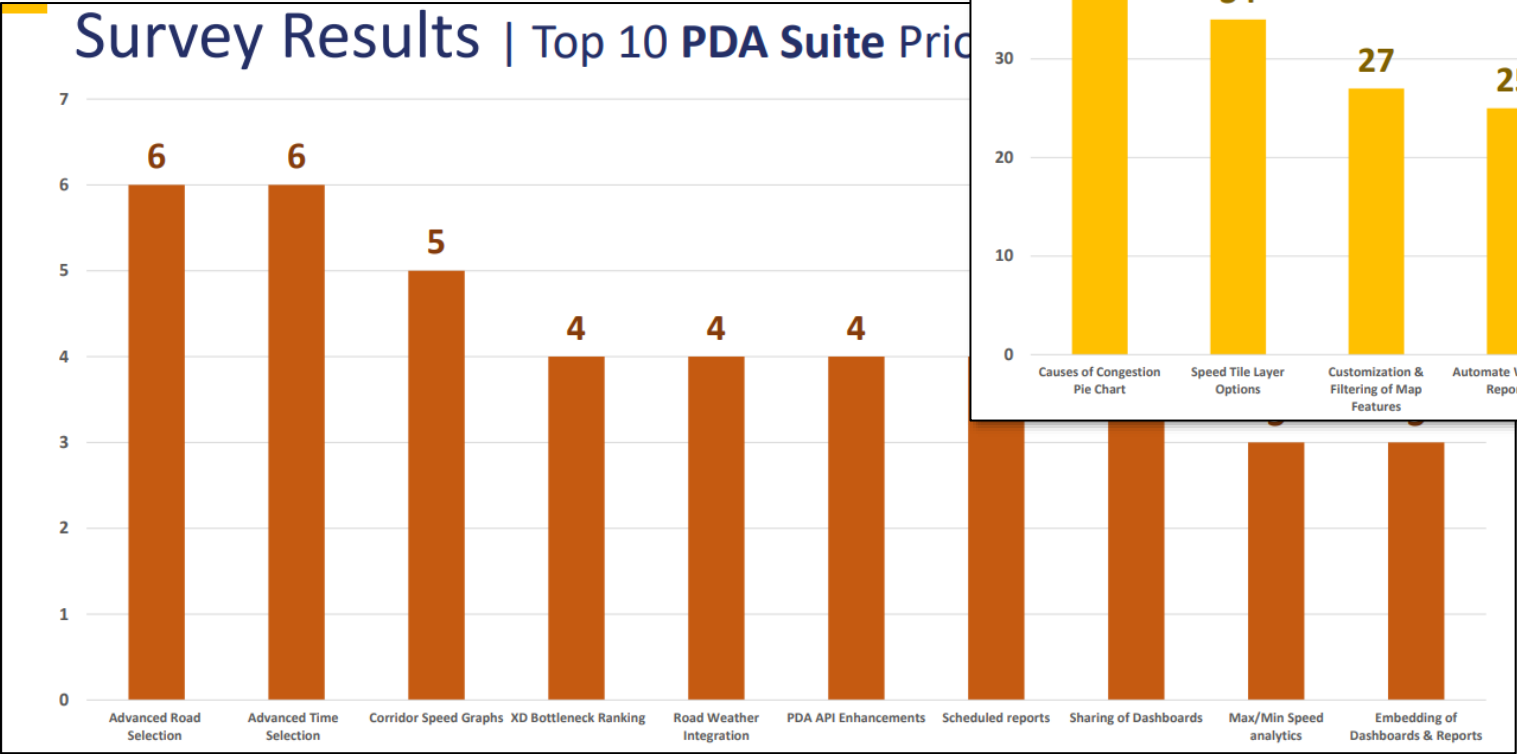
New RITIS Enhancement Working Group



Matt Glasser

Assistant State Traffic Engineer
Georgia DOT

Turning Words into Actions



RITIS Enhancement Working Group Poll

Are you interested in being part of the RITIS Enhancement Working Group?

- Yes, definitely!
- Possibly – can you please reach out to me?
- Not at this time

**To join the RITIS Enhancement User Group,
please contact**

**Matthew Glasser
404.635.2838
mglasser@dot.ga.gov**

RITIS



PROBE DATA
ANALYTICS SUITE

Agency Input Session



Michael Pack
UMD CATT Lab
Director



We want to hear from you!



Wrap Up



Matt Glasser

Assistant State Traffic Engineer, Georgia DOT
RITIS User Group Co-chair



Questions?



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Thank you!



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TRANSPORTATION
COALITION**

CONNECTING FOR SOLUTIONS

