Vehicle Probe Project II

Agency Project Team Webcast

April 30, 2015

Dial 1-712-775-7031
& enter 780245114# at the prompt

Housekeeping Items

- Please call Joanna at 610-662-5569 for difficulties with the web or audio application
- This is a **virtual meeting experience**
  - **Please keep your phone muted until asking a question or speaking (press *6 to mute/unmute individual phone lines)**
  - **Please do not place call "on hold" as your hold music will be heard by the group**
- All materials & contact information will be available to participants after the webcast

Webcast Participants

Agency	Participant
Connecticut DOT	Stephanie Molden
Florida DOT	JoAnn Oerter *(Atkins)*
Maryland DOT/Maryland SHA	Debbie Bowden, Raqib Mohammed
New Jersey DOT	Neha Galgali, Sudhir Joshi, Simon Nwachukwu, Ira Levinton
North Carolina DOT	Kelly Wells, Mike Bruff
Pennsylvania DOT	Scott Benedict
Rhode Island DOT	Bill Nordstrom *(Jacobs),* Deanna Peabody *(TrafInfo)*
South Carolina DOT	Dipak Patel
Virginia DOT	Mena Lockwood, Sanhita Lahiri, Paul Szatkowski, Ram Venkatanarayana, Michael Fontaine
FHWA	Vidya Mysore
Baltimore Metropolitan Council	Victor Henry, Ed Stylc
Delaware Valley Reg. Planning Comm.	Zoe Neaderland, Jesse Buerk
MWCOG	Andrew Meese, Wenjing Pu
North Jersey Transp. Planning Authority	Keith Miller, Solomon Caviness
South Jersey TPO	William Schiavi
Motion Maps, LLC	Bob Winick
New Jersey Institute of Technology	Dejan Besenski

Please confirm that your line is muted *6

Thank you!

Welcome & Introductions

George Schoener

I-95 Corridor Coalition

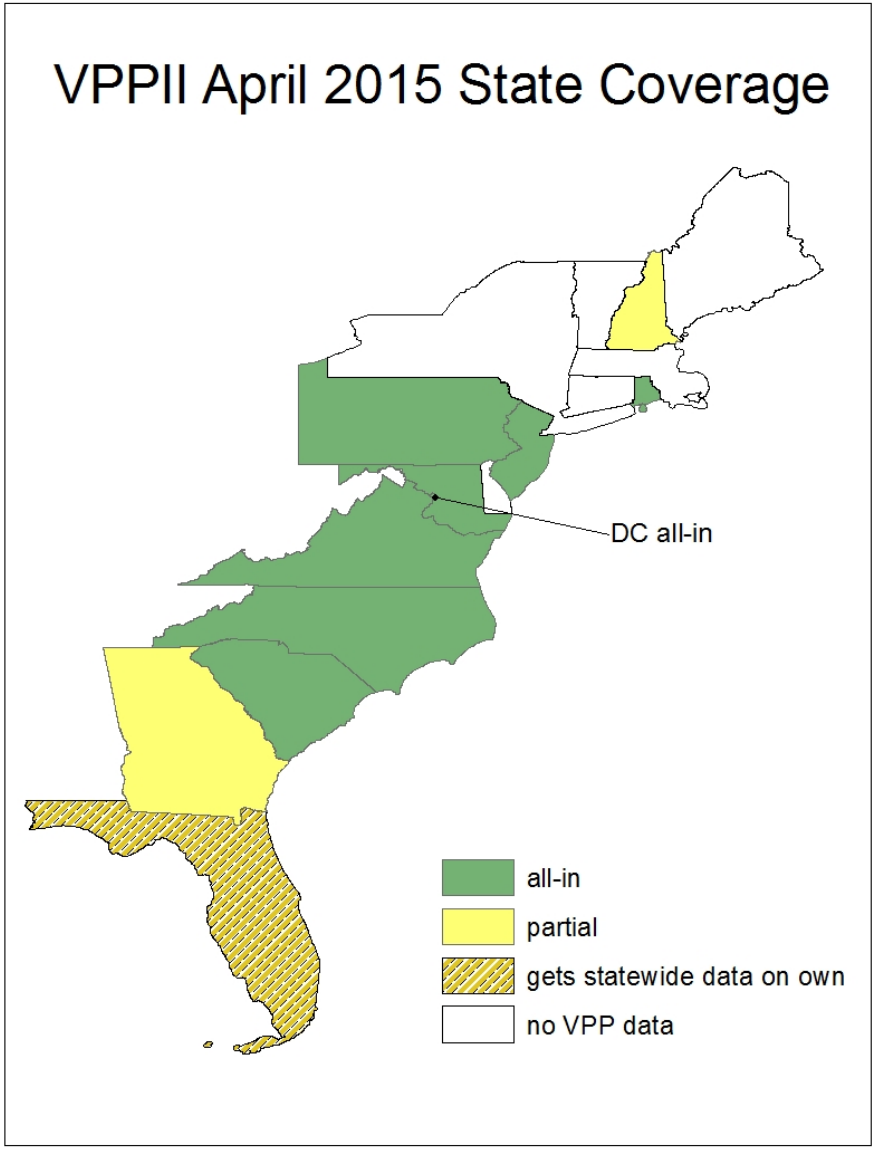
Today's VPP Webcasts

- VPPII Agency Project Team Webcast (9:30am – 11:00am)
- VPP Arterial Validation Webcast (11:00am – noon)

Agency Project Team Agenda

	Topic	Speaker
1	Introductions & Welcome	George Schoener, I-95 Corridor Coalition (I-95 CC)
2	Data Use Agreement (DUA) Status & Contracting Issues	Kathy Frankle, University of Maryland (UMD)
3	VPPII Update – Data Validation & Tech Activities	Stan Young, Masoud Hamedi, Reuben Juster, UMD
4	VPP Suite	Michael Pack, UMD CATT Lab George Schoener, I-95 CC
5	Updates by Agencies	All Facilitated by George Schoener, I-95 CC
6	Other VPPII Activities	George Schoener, I-95 CC
7	Wrap up & Thank you	George Schoener, I-95 CC

VPP Data Coverage Summary



DUA Status and Contracting Issues

Kathy Frankle
University of Maryland

- VPP Coverage & VPPII Agreement Status
- VPP DUA Rev 9 Status

VPP Coverage Summary

Jurisdiction	Agency Purchasing Data	Coverage	Vendor	Agreement & Coverage Status
Maine	Maine Turnpike			Working with them for coverage with TomTom on I-95
New Hampshire	NHDOT	Partial	INRIX	(3) year contract with TomTom to start Jan 2016.
Rhode Island	RIDOT	All-in	INRIX	Working on modified contact for July 1, 2016
New Jersey	NJDOT	All-in	INRIX	Working on modified contact for July 1, 2016
Pennsylvania	PennDOT	All-in	INRIX	Contract thru July 2017. All-in as of May 1, 2015.
Maryland	MSHA, MDTA	All-in	ALL	New contract to begin Sept1, 2016. All in with INRIX, redundant coverage with HERE & TomTom
District of Columbia	DDOT	All-in	INRIX	Under contract
Virginia	VDOT	All-in	INRIX	Under contract
North Carolina	NCDOT	All-in	INRIX	Under contract through Nov, 2015.
South Carolina	SCDOT	All-in	INRIX	Sent updated costs for next year.
Georgia	GDOT	Partial	INRIX	Working on modified contract for July 1, 2016. Adding coverage by HERE (see desired coverage).

States in Blue Boxes – UMD currently working to modify contracts that expire on June 30, 2015.

DUA V9 Status

Agencies	Status	Notes
Connecticut DOT	Sent	DUA ver 8 executed
Delaware DOT	Sent	No response
DDOT	Sent	Expecting edits to DUA ver 9
FDOT	Sent	DUA ver 8 executed
GDOT	Sent	DUA ver 8 executed
Maine Turnpike	Sent	No response
Maryland SHA	Executed	1/16/2015
Massachusetts DOT	Sent	No response
NHDOT	Executed	12/11/2014
NJDOT	In process	Waiting for signed DUA ver 9
NYSDOT	Sent	DUA ver 8 executed
NCDOT	In process	Waiting for modified DUA ver 9 to be returned signed
PennDOT	Sent	Beginning process to sign DUA ver 9
RIDOT	Executed	4/10/2015
SCDOT	Sent	DUA ver 8 executed
Tennessee DOT	Sent	Not purchasing data
VDOT	Executed	1/13/2015

Tech Coordination Update

Stan Young, Masoud Hamedi, Reuben Juster
University of Maryland CATT Works

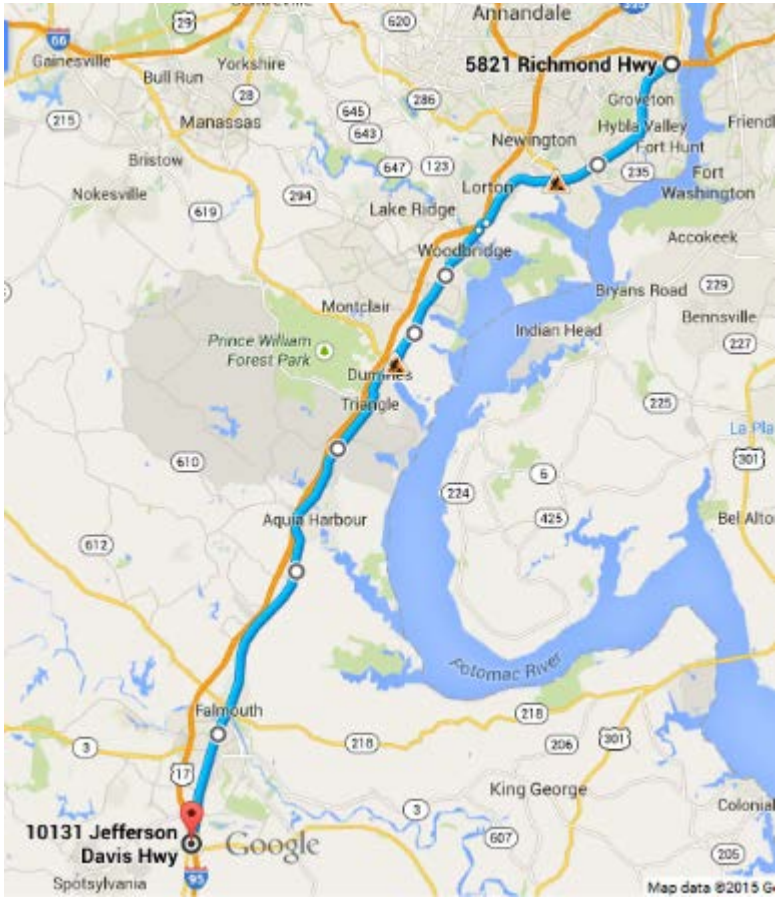
- Validation Summary
- Maryland Supplemental Coverage
- Volume & O/D

Validation - Ongoing

- PA-07 & PA-08 Complete
  - PA08 (first multi-vendor) posted on website
- VA-09 & VA-10
  - Results being reviewed by vendors,
- MD09
  - Deployment Scheduled – Data Capture in place for HERE and INRIX

Validation - Ongoing

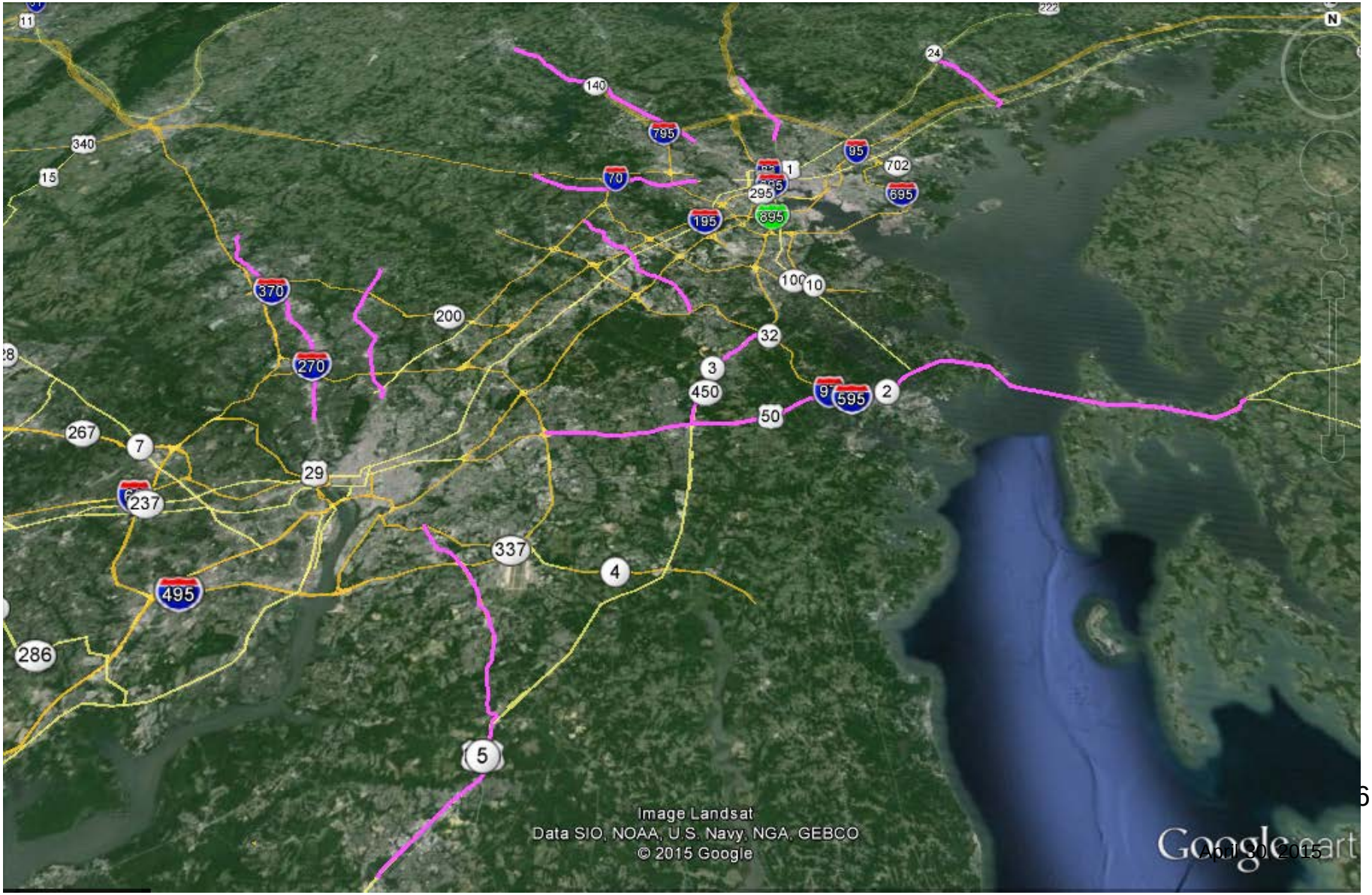
- VA-09
  - Results under review
- VA-10
  - In processing
- Similar to Arterial Validation Report
  - Traditional / Slowdown / Distribution Analysis performed
  - Reports available in May



VA-09 Observations

- In general improvement in probe data on arterials compared to previous years
- Almost all major congestion episodes were captured by all vendors to some extent, with exception of a few missed cases
- However severity of slowdowns seem to be underestimated by all vendors

Maryland Supplemental Coverage



Maryland Supplemental Coverage

- 120 miles consisting of:
  - High end arterials
  - Freeway
- Went live on February 1, 2015
- Next validations will utilize these areas:
  - April – US 50 & US 40, tackling latency
  - June – Critical arterials
- Maryland anticipates creating an arterial management test bed

Volume & OD

- Cooperative Research Initiative
  - Calibration/validation test bed
  - Focus group to refine product
  - Vendors develop, test, and report
- Goal is to accelerate timeframe to viable real-time volume data feed
- To include freeway, high-end arterial, and major intersections
- Interested members contact rmjcar@umd.edu

VPP Suite

George Schoener, I-95 Corridor Coalition
Michael Pack, University of MD CATT Lab

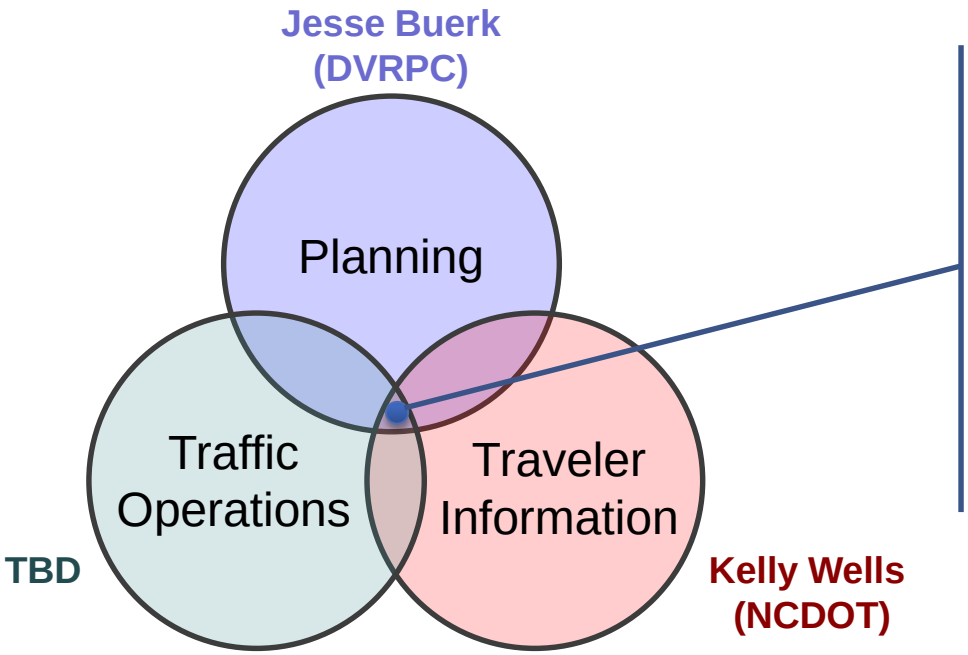
- Roles – Coalition & Agencies (George)
- New Co-chairs (George)
- User Group webcast (April 8, 2015) (Michael)
- New and Planned Features (Michael)
- Funding Status & Cutoff dates (Michael)

Role within the VPP Suite (George)

- Coalition
  - Support VPP Suite User Group
  - Coordinate training of agencies for VPP Suite

- Agency Members
  - Use and fund VPP Suite

The new co-chairs will create a cohesive synergy



The co-chair's vision, leadership and guidance will help provide for:

- A more comprehensive State & MPO perspective…
- that leads to better integration of Planning-Ops-Travel Info needs & considerations…
- for improved tools and products.

User Group Meeting April 8th

(Michael)

- Highlights
  - New User Groups
  - Funding Status/Cutoff Dates
  - Change in Leadership

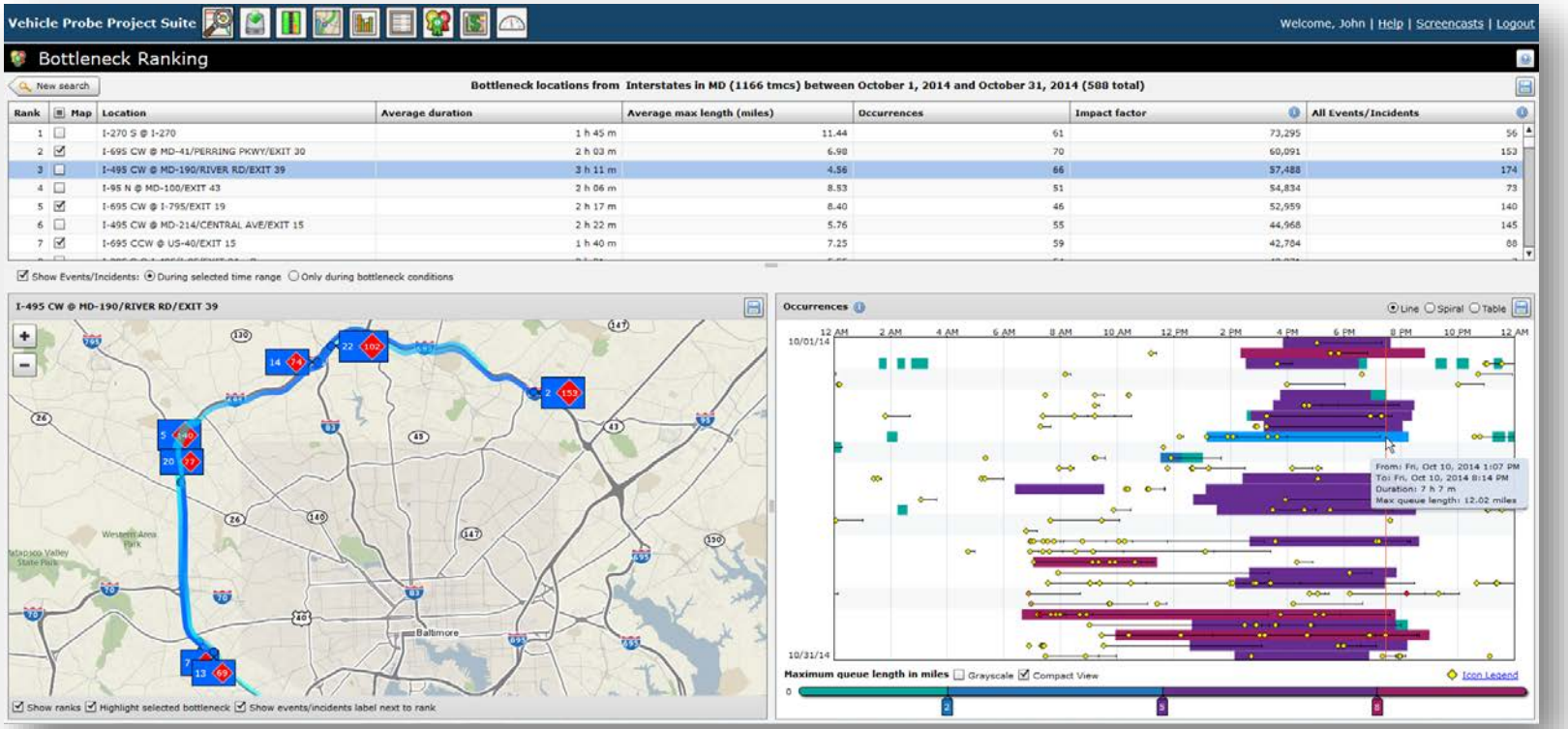
New & Planned Features

New Data Sources

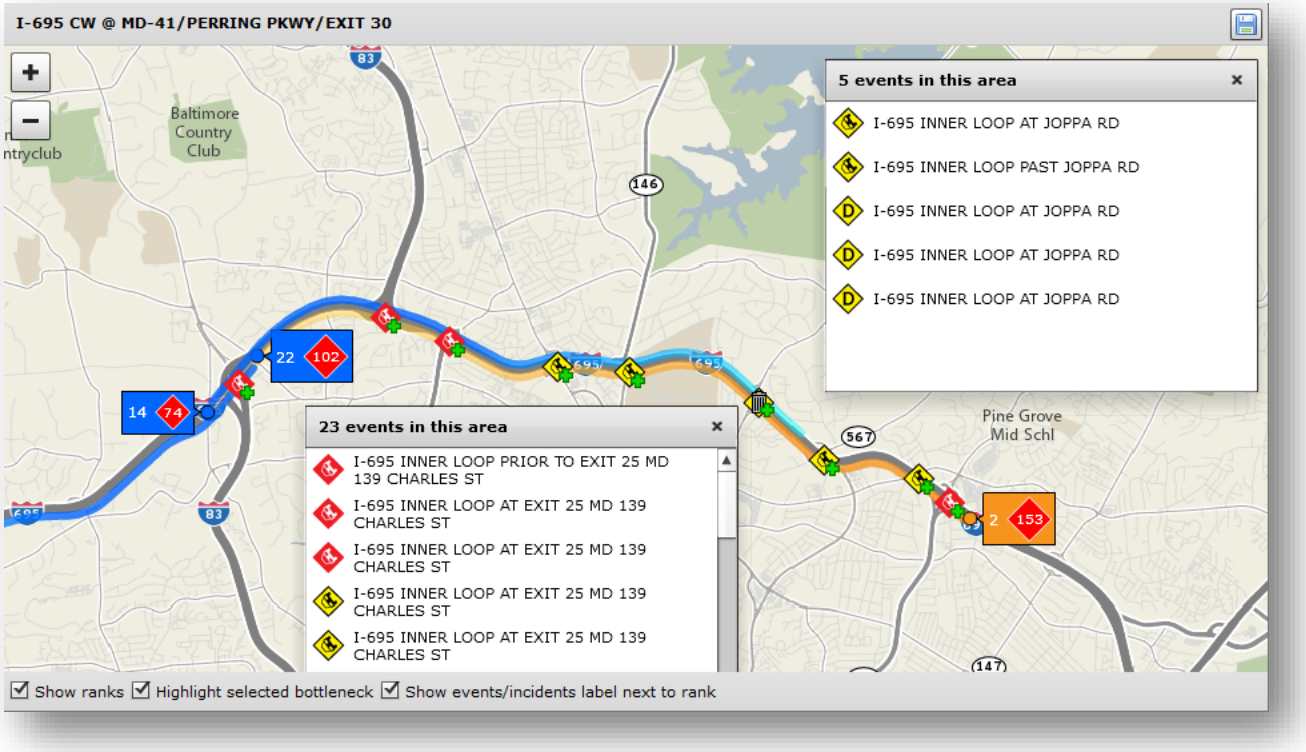
- Data Downloader Now Includes:
  - INRIX
  - HERE
  - TomTom
  - NPMRDS

Bottleneck Ranking – Bottleneck/Event Data

Bottleneck Ranking now includes traffic event and incident data from RITIS and aligns those events to bottlenecks, with new features added into the Impact Factor table, map and 3 visualization choices



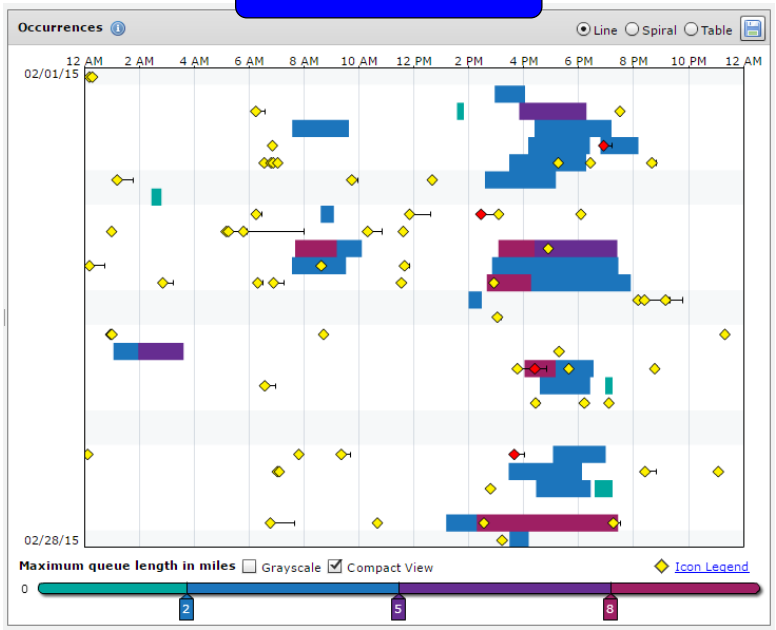
Map Bottleneck/Event Detail



- Total number of events are shown in red diamonds
- Use zoom to reveal more event detail
- Clicking on the green crosses (areas of multiple events) opens a detail box for that location

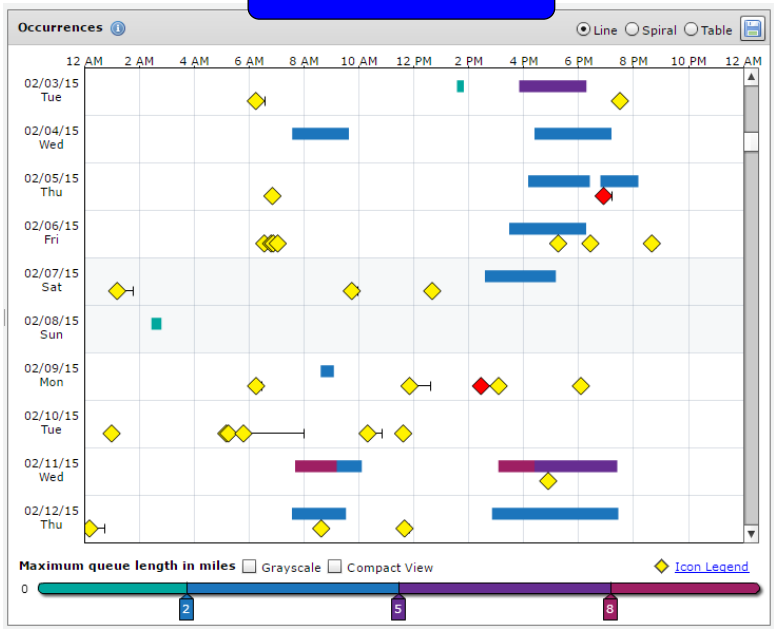
Time-Table Visualization

Compact View



Get an overview-level understanding of the data

Multi-Screen View



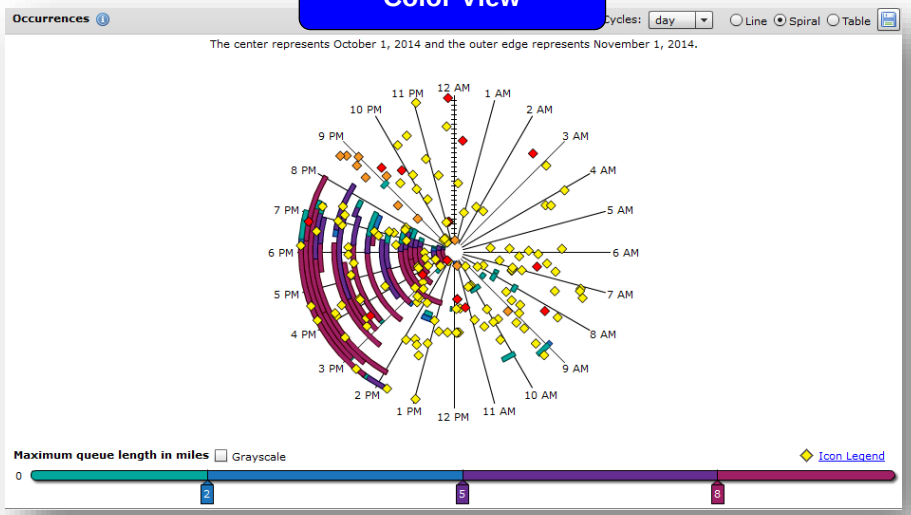
Scrollable to dig into the details

Incident Icons Legend

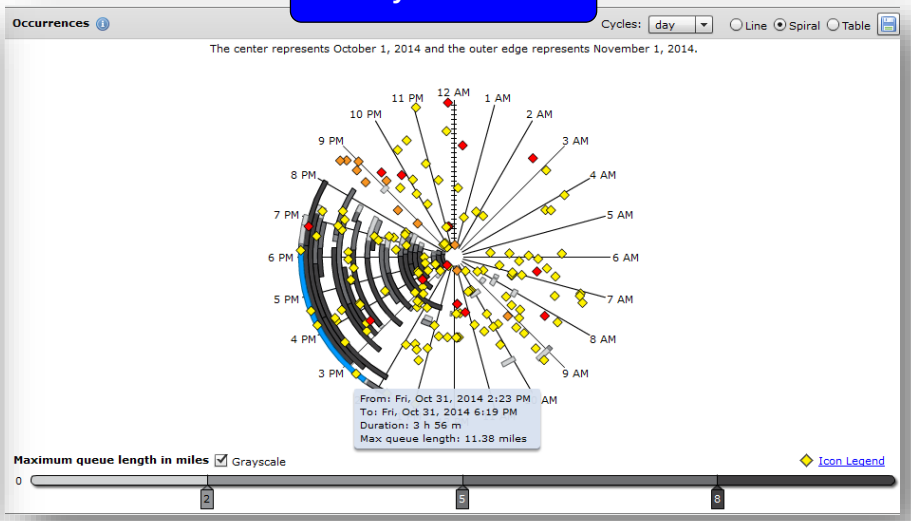
Red — Severe events and incidents Orange — Roadwork Yellow — All other events and incidents

Time Spirals & Event Icons

Color View



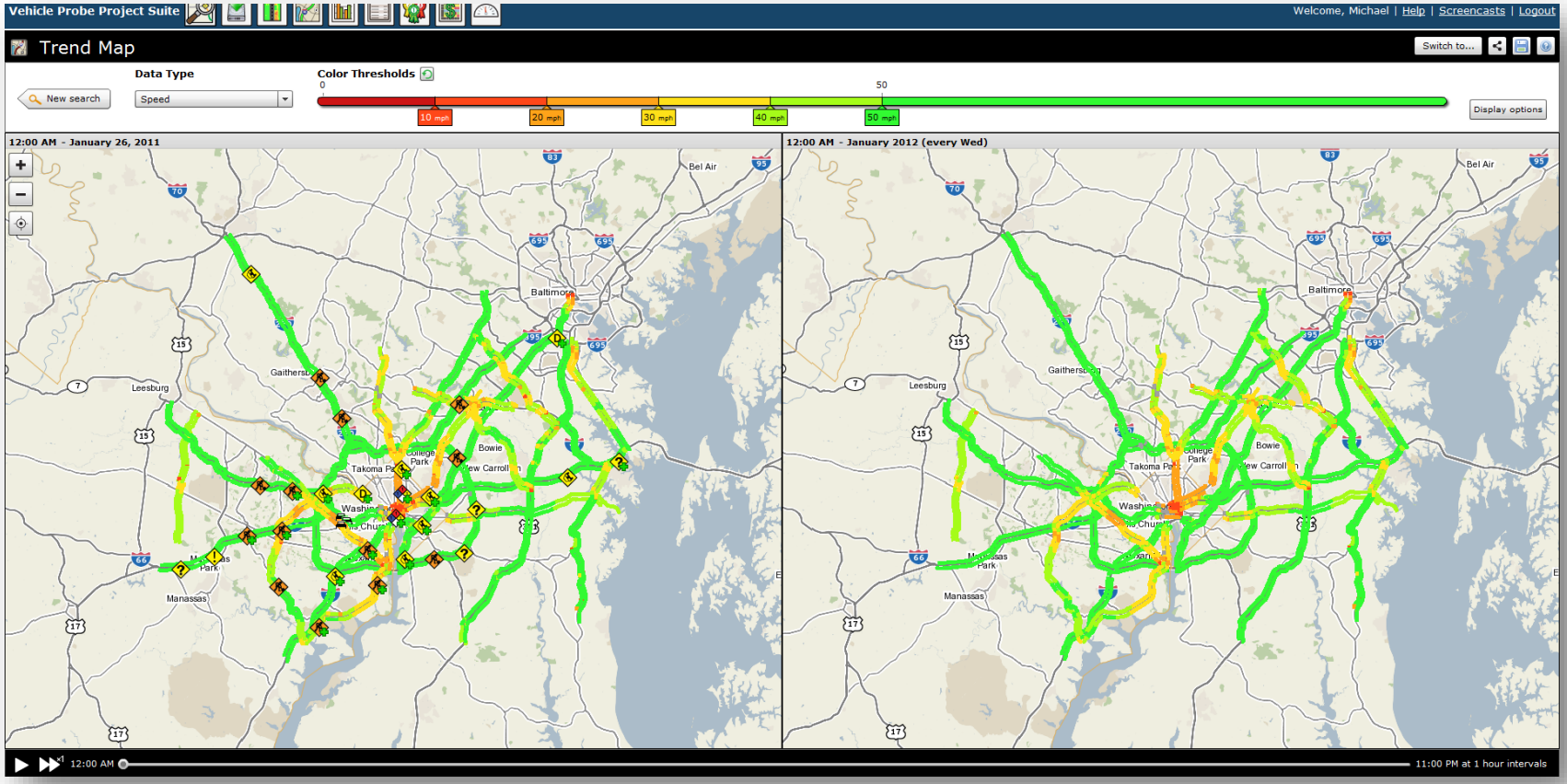
Grayscale View



Incident Icons Legend

Red — Severe events and incidents Orange — Roadwork Yellow — All other events and incidents

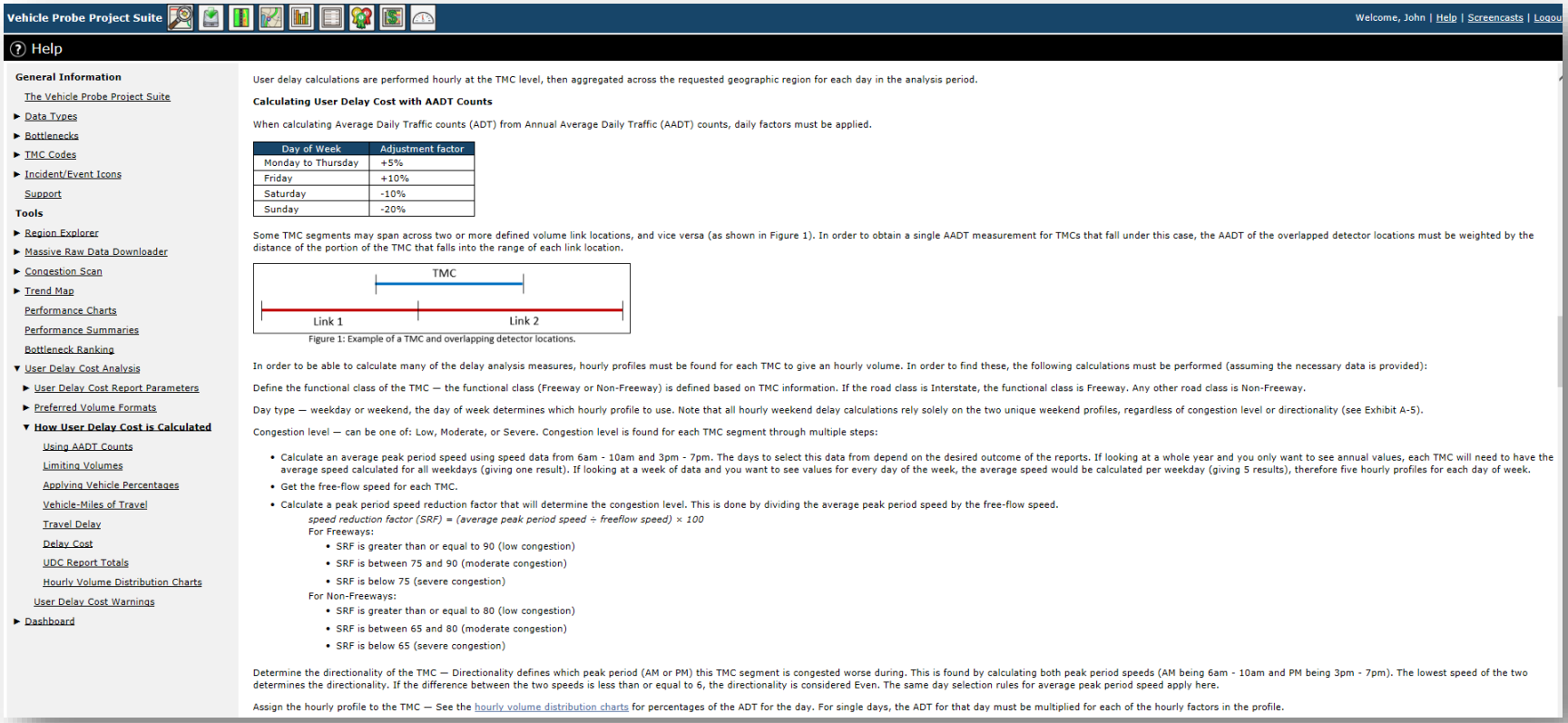
Events on Trend Maps



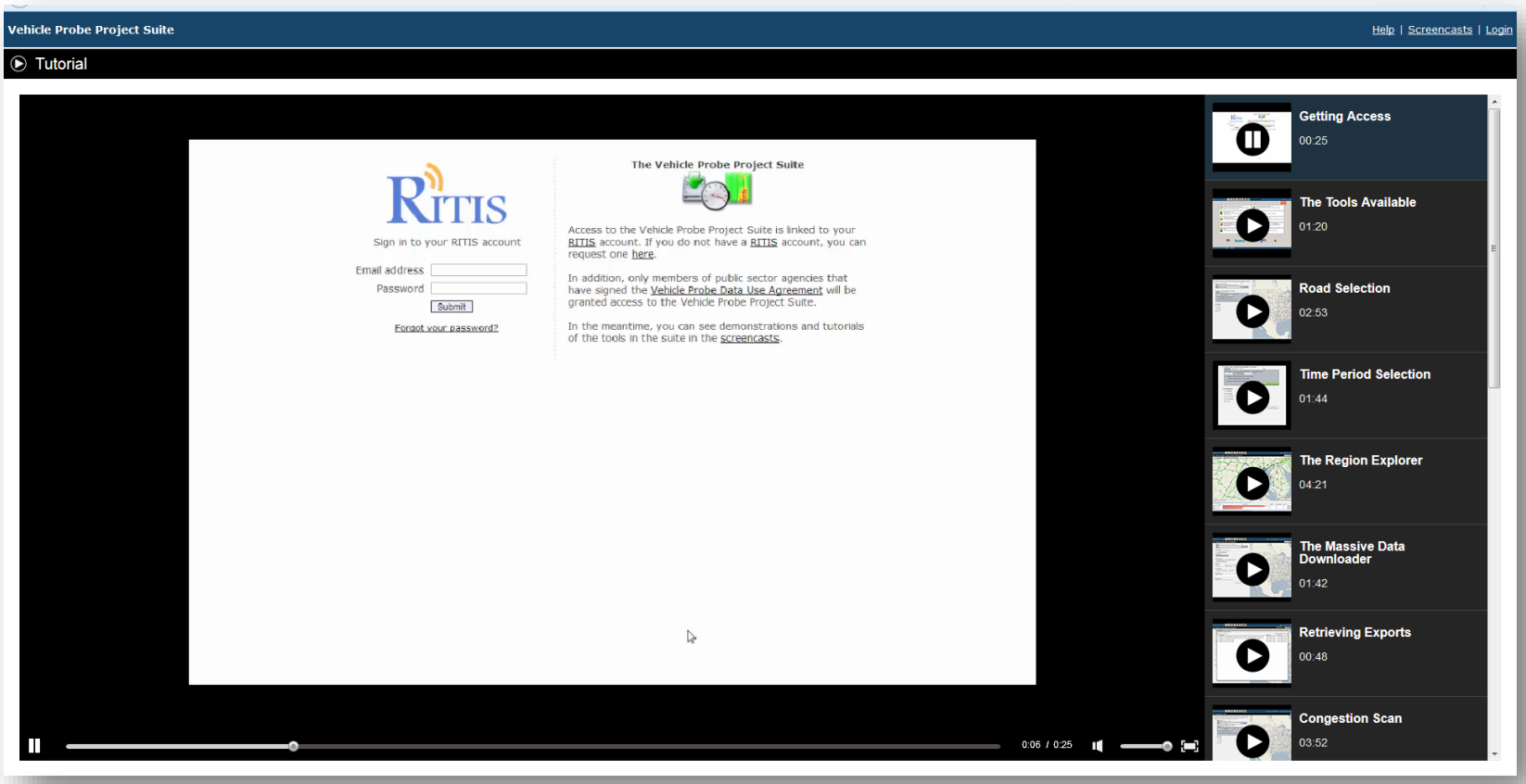
Harmonic Mean

- Improves upon how average speeds are calculated across our tools
- Has the benefit of preserving the relationship between speed and travel time
- Impacts the calculations of the **buffer time index**, **planning time index**, **user delay cost**, and all other performance metrics
- You will need to recreate any previous reports to take advantage of the harmonic mean

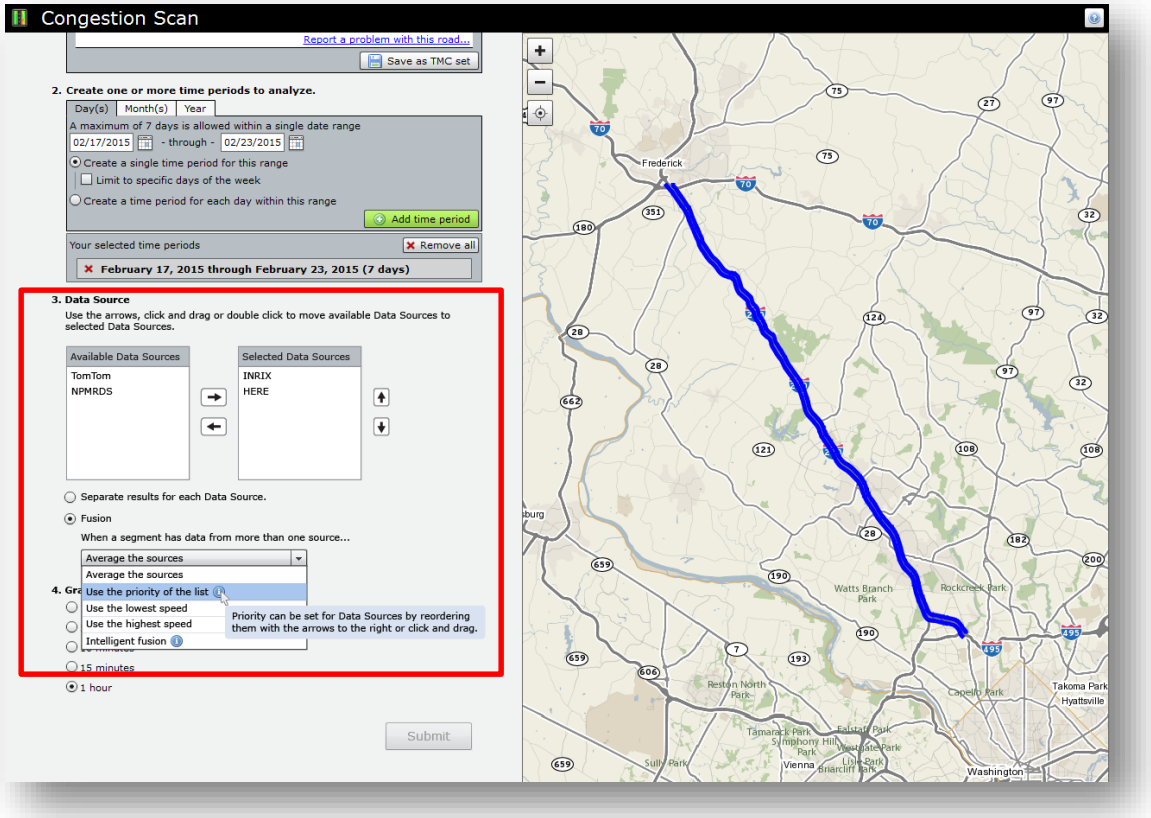
User Documentation



Tutorials


Vehicle Probe Project Suite
Help | Screencasts | Login
Tutorial
RITIS
Sign in to your RITIS account
Email address
Password
Submit
Forgot your password?
The Vehicle Probe Project Suite
Access to the Vehicle Probe Project Suite is linked to your RITIS account. If you do not have a RITIS account, you can request one here.
In addition, only members of public sector agencies that have signed the Vehicle Probe Data Use Agreement will be granted access to the Vehicle Probe Project Suite.
In the meantime, you can see demonstrations and tutorials of the tools in the suite in the screencasts.
0:06 / 0:25
Getting Access
00:25
The Tools Available
01:20
Road Selection
02:53
Time Period Selection
01:44
The Region Explorer
04:21
The Massive Data Downloader
01:42
Retrieving Exports
00:48
Congestion Scan
03:52

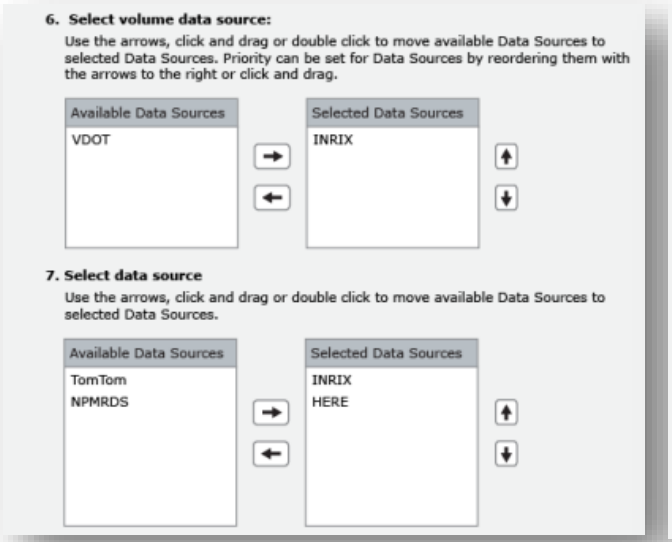
Multi-vendor Integration Status



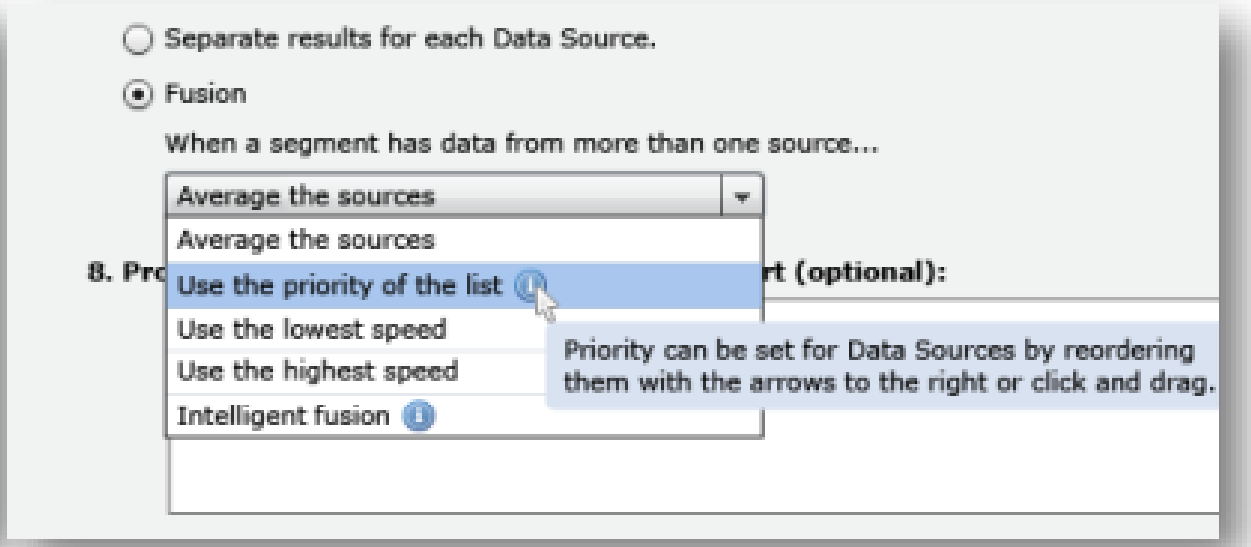
- Data downloader is live.
- Users will soon be able to choose from different data sources for all other tools.
- Will be able to prioritize how the data is used and presented
- A fusion option will give users the ability to average the sources in a number of ways

Multi-vendor Integration over Multiple Tools

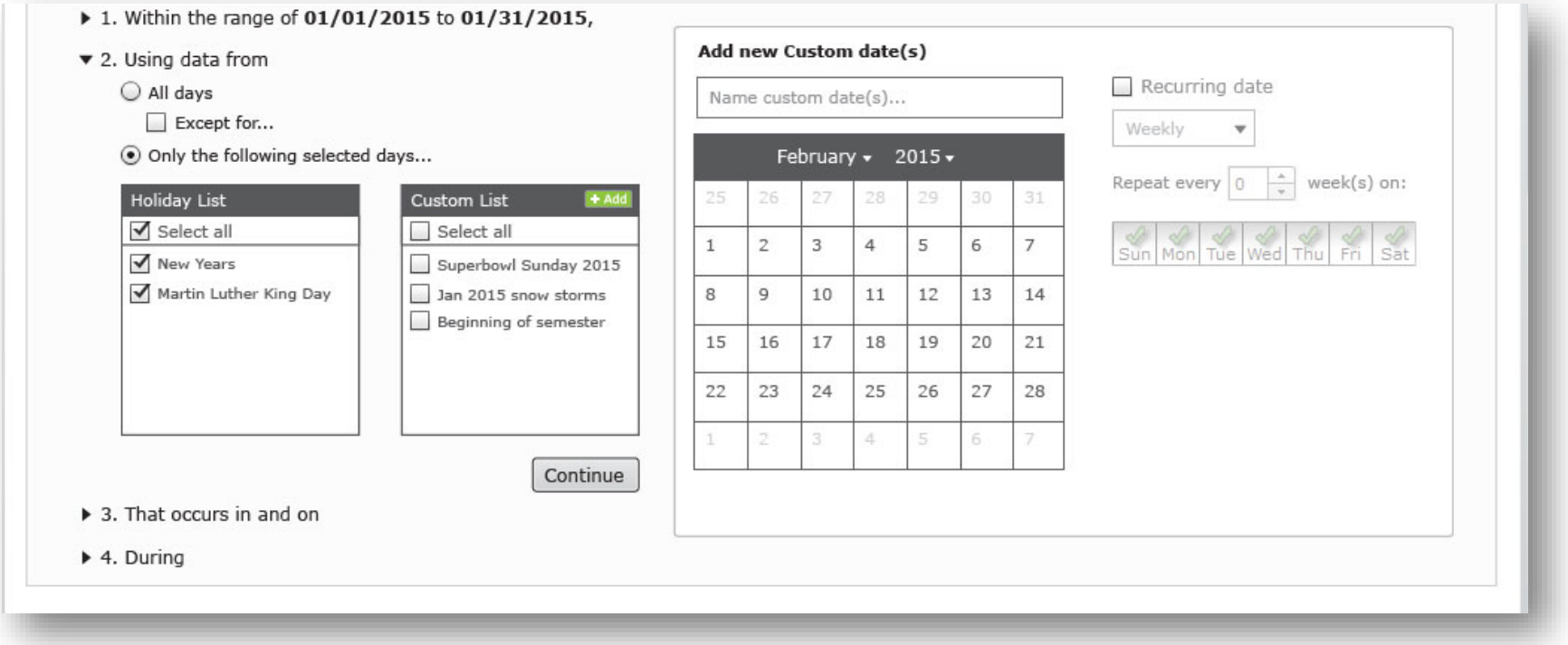
UDC



Future Functionality

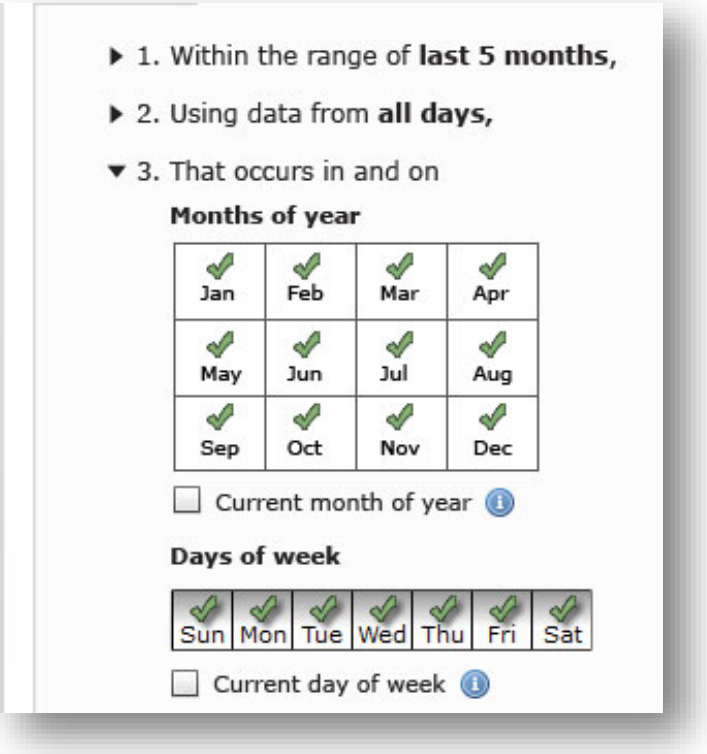


Date-filtering Options (in-progress)



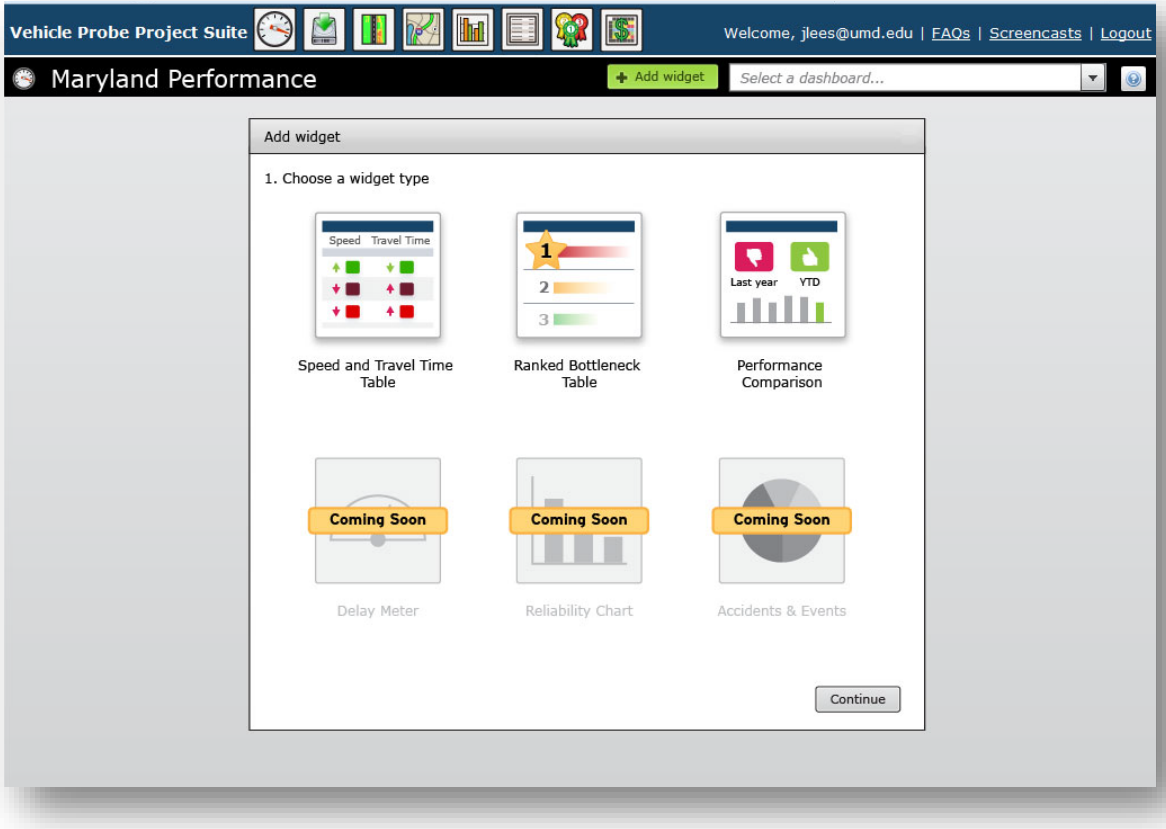
All Days, or; Excluding certain days (holidays/custom list), or; Including only certain days

Date-filtering Options (in-progress)

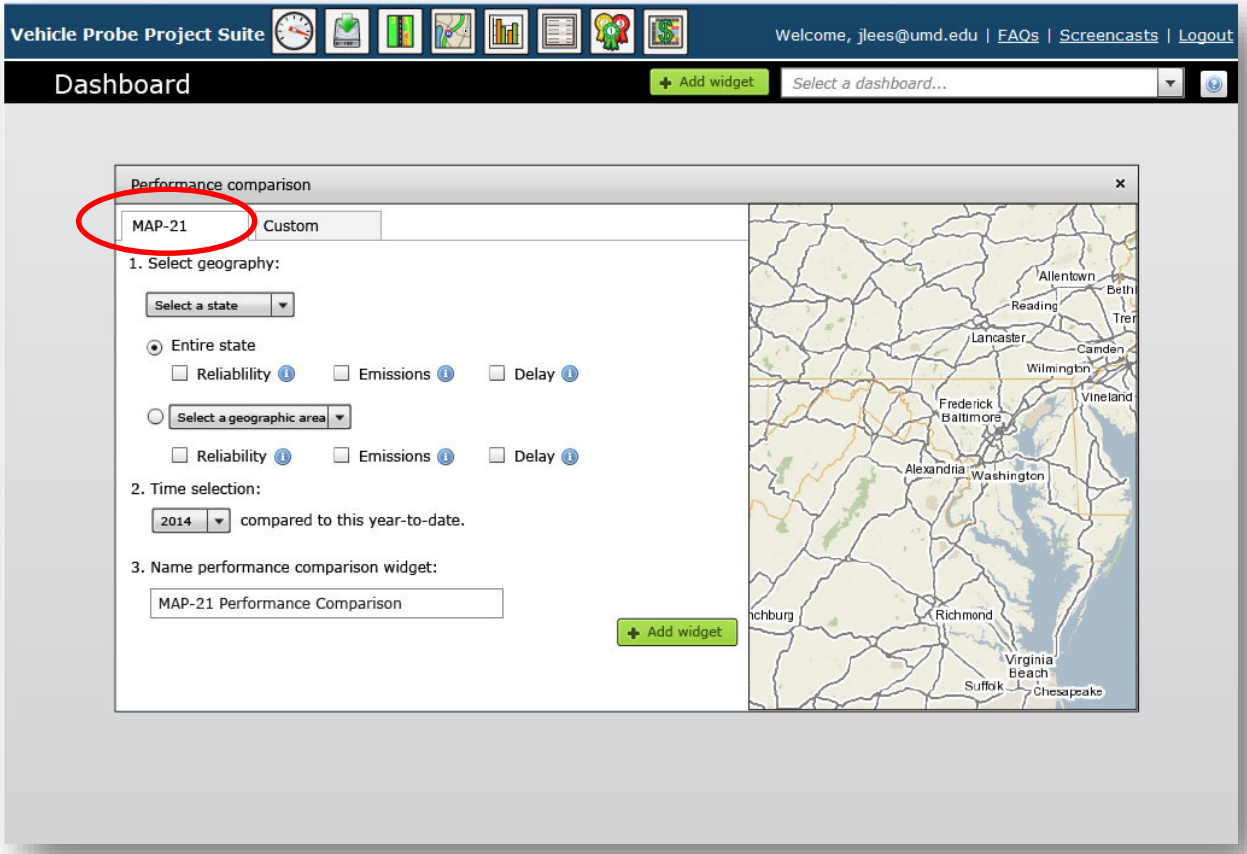


- Exclude certain days/months, etc.

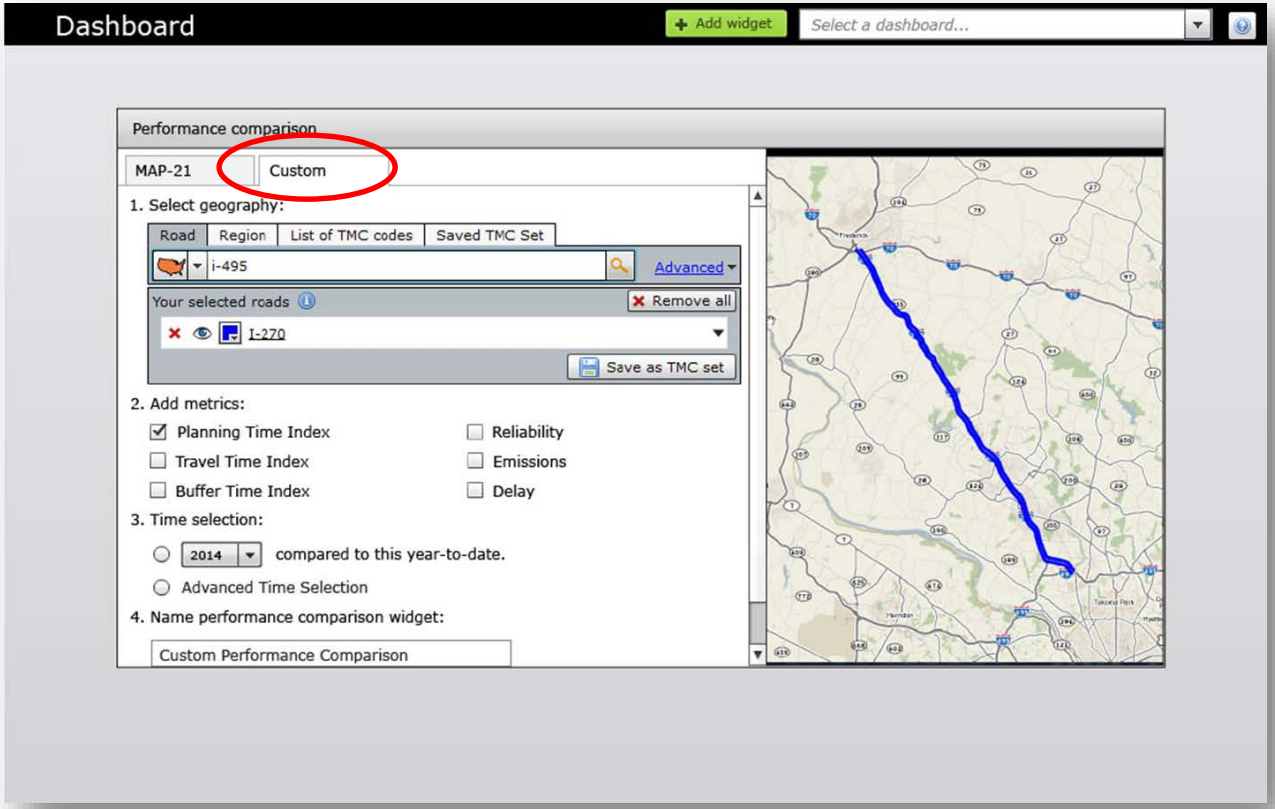
MAP-21 Dashboards (Coming Soon)



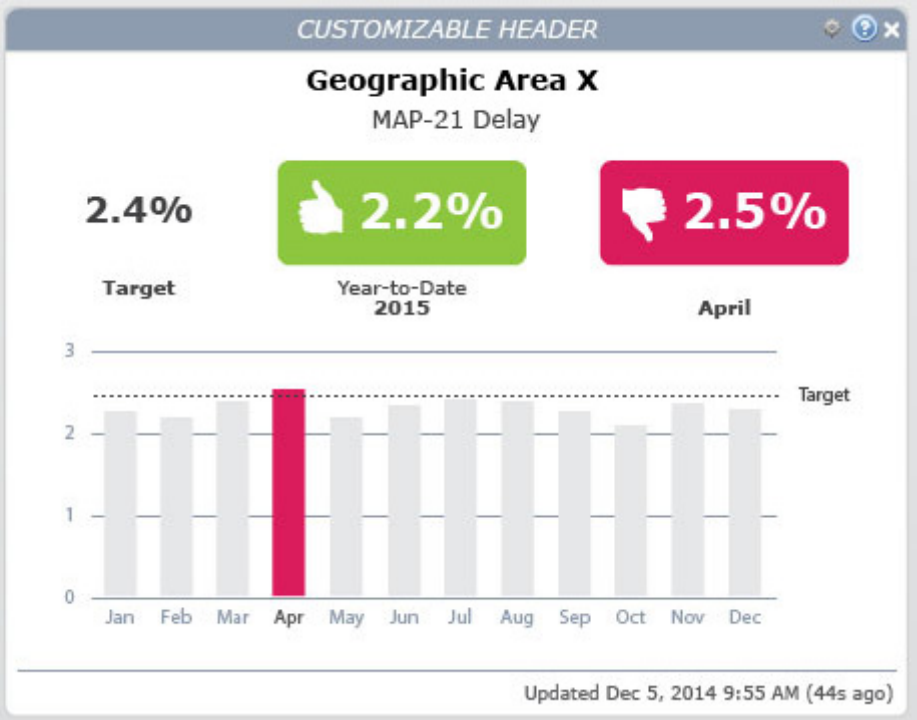
The Dashboard Includes MAP-21 Performance Comparisons…



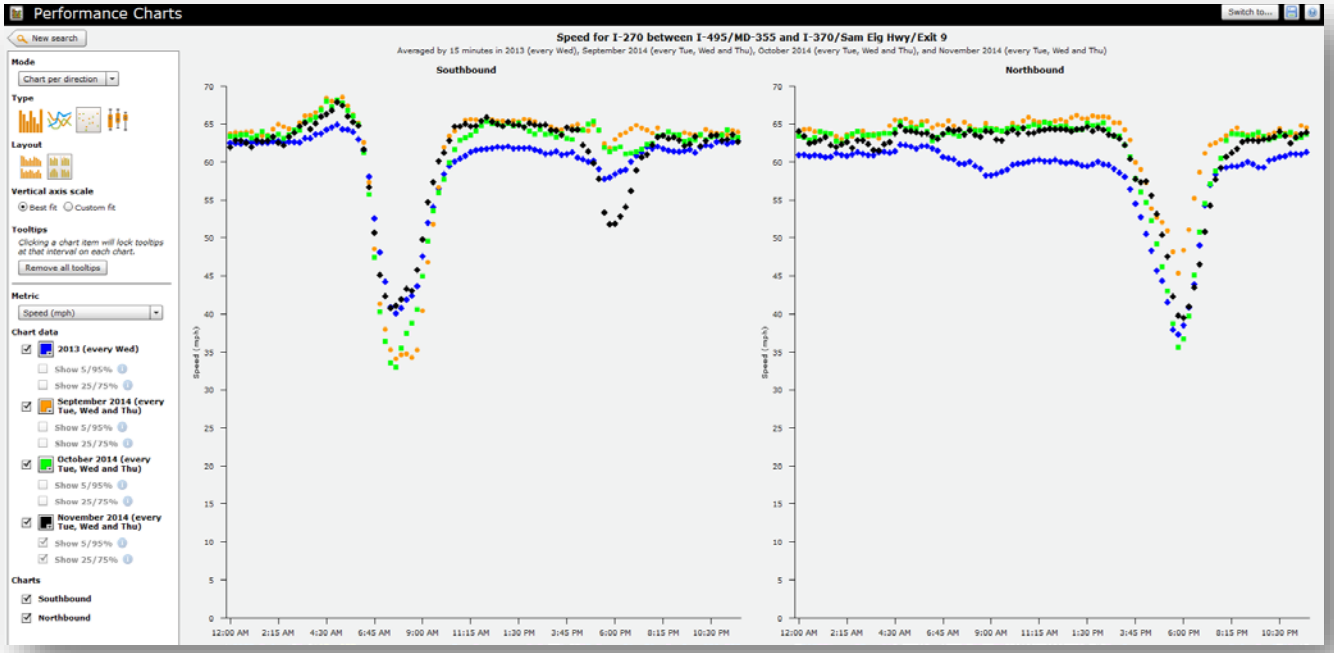
…and Custom Comparisons



Reliability Widgets at a State & Geographic Area Level



NPMRDS Integration



- Where appropriate, NPMRDS data has been integrated into all of the previously mentioned tools
- NPMRDS data produces meaningful results when looking at a month and/or an entire year's worth of aggregated performance measure data
- The Probe Data Analytics Tools show where gaps exist in the NPMRDS when viewing individual days and/or weeks worth of data

Funding Status and Cutoff Dates

Reminder: Federal funding expired in Jan. 2015.

On July 1, 2015, the VPP Suite will be disabled for agencies that have not worked out a funding plan with the CATT Lab for their 2015 contributions.

States, MPOs, etc. who have already contributed (or worked out a plan) will continue to have unrestricted access.

States/MPOs/users are receiving follow-up calls to confirm participation.

Funding Status and Cutoff Dates

Agencies	Status
Connecticut DOT	No response
Delaware DOT	No response
District DOT	Considering
Florida DOT	In-progress
Georgia DOT	In-progress
Maine Turnpike	Considering
Maryland SHA	In-progress
Massachusetts DOT	No response
New Hampshire DOT	Considering
New Jersey DOT	Gone Silent
New York State DOT	No Response
North Carolina DOT	In-progress
Pennsylvania DOT	Funding Received
Rhode Island DOT	In-progress
South Carolina DOT	Considering
Tennessee DOT	Not Contacted
Virginia DOT	Funding Received

Updates by Agencies

All Agencies

Facilitated by George Schoener

I-95 Corridor Coalition

Poll Question

- Is your agency using VPP data to generate travel time messages for work zones?

Other VPPII Activities

George Schoener

I-95 Corridor Coalition

- Website changes
- Upcoming meetings/events

Website Changes

- New Coalition website up!
  - Additional files/links to be added to VPP Suite page

- Important links
  - Main page: http://www.i95coalition.org/
  - VPP: http://www.i95coalition.org/projects/vehicle-probe-project/
  - VPP Suite: http://www.i95coalition.org/projects/vehicle-probe-project-suite/

VPP & Other Events/Activities

Coalition Activities/Presentations/Meetings	Date	Location
I-95 Corridor Coalition Significant Events Response Conference	May 12-13	Linthicum Heights, MD
5th International Transportation Systems Performance Measurement Workshop (TRB)	May 31 – Jun 2	Denver, CO
ITS America Conference	May 31 – Jun 3	Pittsburgh, PA
VPPII Agency Project Team Webcast	**Sept. 24, 2015 10:30am-noon**	**Webcast**

Wrap up & Thank you

George Schoener

I-95 Corridor Coalition

NOTICE:

Next VPPII Agency Project Team Webcast

Thursday, Sept. 24, 2015

10:30am - noon

VPPII Contact Info

- **General project questions**:
  George Schoener at 703-389-9281 or geschoener@comcast.net
- **Road Coverage Info & Data Validation**:
  Stan Young at 301-792-8180 orseyoung@umd.edu or
  Reuben Juster 301-314-0426 at rmjcar@umd.edu
- **Vehicle Probe Project Suite**:
  UMD CATT Lab at vpp-support@ritis.org
- **Contracting Issues**:
  Kathy Frankle at 410-414-2925 or kfrankle@umd.edu

Thank You