



— THE EASTERN
TRANSPORTATION
COALITION

CONNECTING FOR SOLUTIONS



VPP Market Place State Bi-Annual Web Call

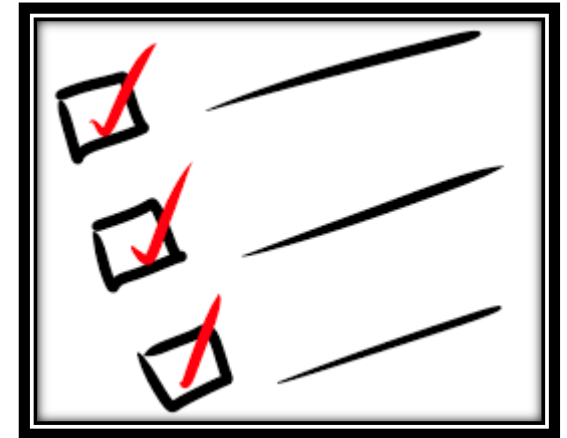
August 19, 2020

Connecting for Solutions



Today's Agenda

- Data Products
- Validation Program Update
- FY2021 Contracting
- Data Use Agreement Update
- Volume Trend Data Licenses
- New Website
- CITE Pooled Fund





Vendor Product Updates



Ancillary products can be added as pre-negotiated fees, discounted from list price to existing long term contracts as well as annual contracts

Real-Time Options Safety Applications

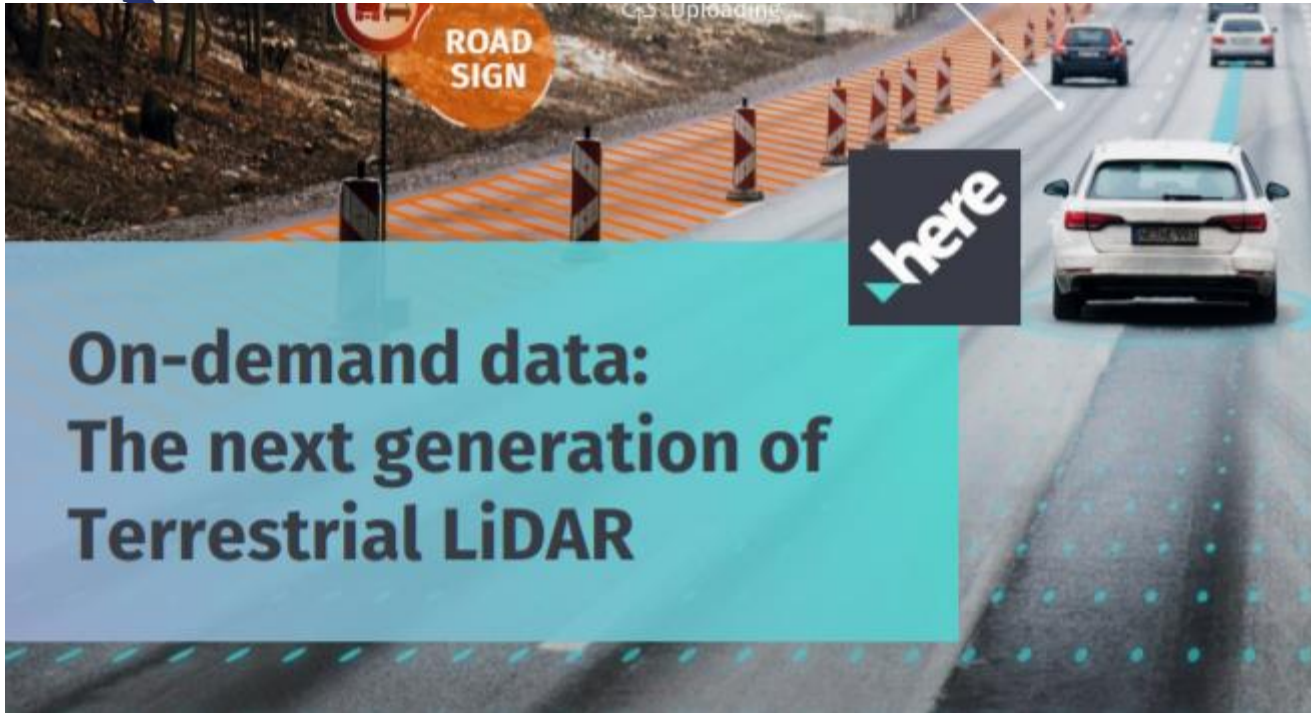
- **Dangerous Slowdowns Real-Time API**
Delivers safety-focused alerts to agencies to augment current data or as a cost-effective option for rural states not involved presently in VPP.
- **Commercial Vehicle Safety Alerts**
Delivers warnings direct to truckers when heading towards slow/stopped traffic on highways and/or other agency-created safety information.
- **Highway Emergency Link Platform**
Off-the-shelf emergency alerting service that establishes two-way communication with those stranded in trapped queues due to incidents, weather, etc.

Historical Options Performance Management Applications

- **Trip Analytics and Datasets**
Offers reduced price access to various trip-level data options to support freight and transportation planning.
- **Signal Analytics**
Enables focused analysis of signal networks, as granular as the intersection level.
- **Volume Profiles**
Provides direct access to dataset that powers volume-weighted analyses. 15-min bins, total vehicle counts provided for every XD segment
- **Volume Archive Study Support**
Cost-effective combination of Trip Dataset and XD Segment Archive to power UMD CATT process to create highly detailed and accurate volume archive for agencies.
- **State/County TMC Location Referencing Network Shapefile**
- **XD Segment Traffic Archive**
Provides the option for access to XD archives.



Vendor Product Updates

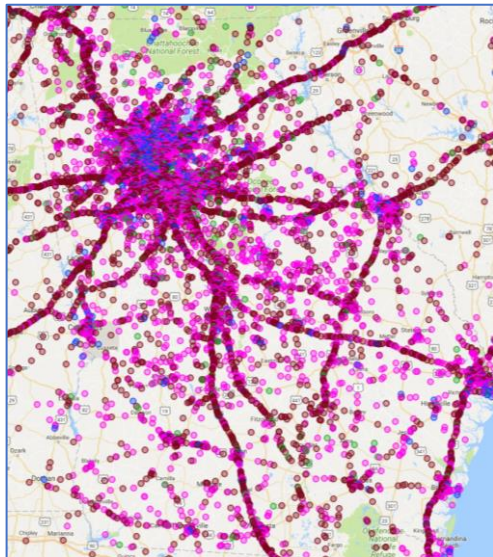


HERE Hazard Warnings is a cloud-based service derived from rich vehicle sensor data to create a depiction of road conditions in real-time. The service delivers targeted alerts to drivers traveling through areas affected by a road hazard, distributed via connected infotainment systems or through the vehicle's ADAS functions. Low-latency hazard information is delivered in just seconds. The service relies on data from vehicle sensors such as wipers, SRS airbag, ABS events and more to create the following types of warnings:



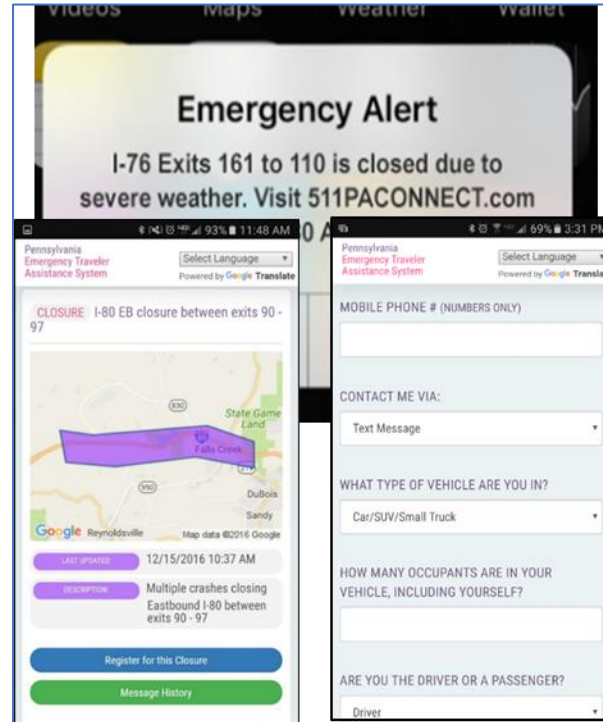
New Procurements

Rhode Island DOA/DOT – Trip Analytics and Datasets



August 2020

HELP Emergency Communications



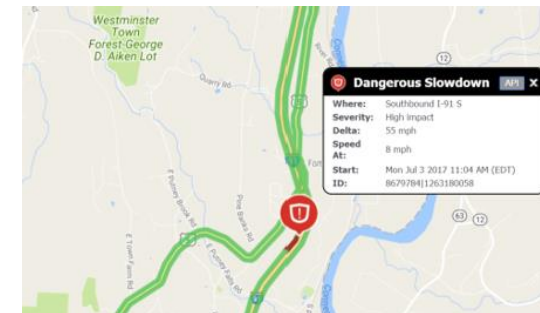
Subscribers: PA, NJ, GA, Maryland SHA

Tennessee – INRIX & RITIS



PROBE DATA
ANALYTICS SUITE

Tennessee – Dangerous Slowdowns



Vehicle Probe Project: HERE, INRIX and TomTom Data Validation

Report for Massachusetts (#01)
Freeway Validation

Data Collection: January – February 2020
Report Date: May 2020



Validation

Validation Program Status Update

- ✓ April and July Quarterly Report Updates
- ✓ Massachusetts Final Report
- ✓ Maryland Validation Status
- ✓ New Addition – Vermont Validation Status
- ✓ Fall Schedule



Validation Schedule & Philosophy

Recap from last meeting

- ✓ Move to a 2-year cycle for state validations
- ✓ 4 reports per year
 - ✓ 3 regular validations guaranteed (e.g., Freeway / Arterial)
 - ✓ 1 optional special study in place of a regular validation (e.g., low-volume study)

Impact

- ✓ More feasible to conduct one-off studies on important topics (e.g., special facilities)
- ✓ More guidance from states about validation direction (will be formalized further in VPPIII)

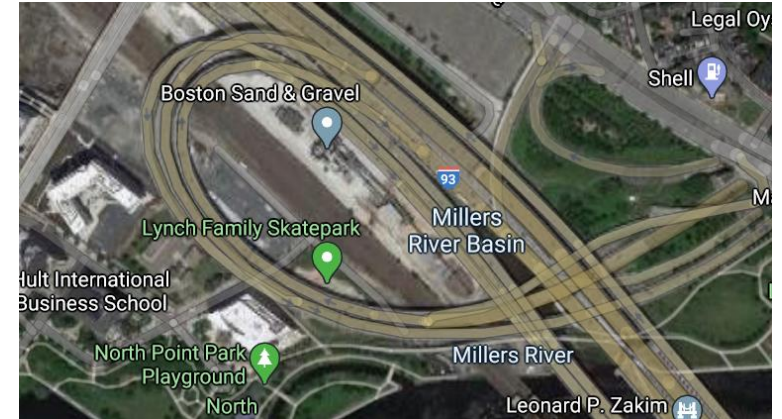
Goal: Continue to benchmark probe data quality in locations / scenarios that are useful for members



Validation Status Update

Massachusetts (previous)

- ✓ I-93 (SB), I-90 (EB) into Boston
 - ✓ Complex freeway, highly congested
- ✓ Difficult deployment
 - Multiple jurisdictions, no/limited shoulder, traffic
- ✓ Report finalized and published on ETC website
 - Data quality strong for all 3 vendors
- ✓ Conducted internal study to benchmark re-id tech



Complex data collection in Massachusetts

Maryland (current)

- ✓ MD-30 (near PA border), US-40/US-11 (Hagerstown)
 - Locations among top priorities by MDOT-SHA
- ✓ **Low volume** emphasis
- ✓ Collected reference data in July, will analyze soon





Fall 2020 Planning

Vermont (new addition)

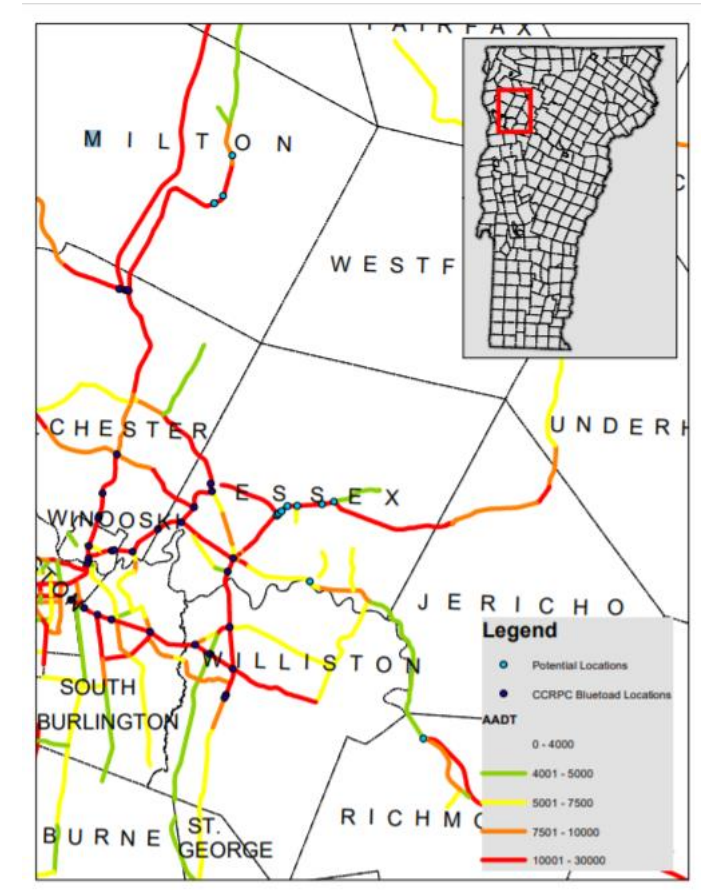
- ✓ Deployment planned for September/October
- ✓ **Low volume** emphasis

North Carolina is next in line (late fall)

- ✓ Will begin outreach soon

Ideas for future studies:

- ✓ Special facilities (e.g., tunnels, HOV lanes)
- ✓ Vendor segmentation (e.g., TMC, XD/ sub-TMC)





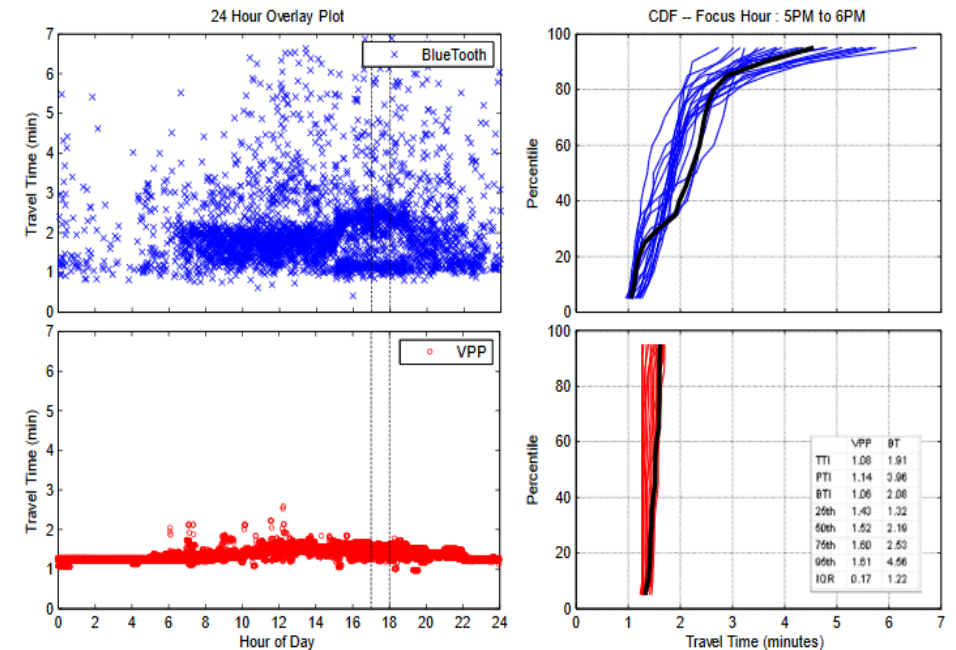
Current/upcoming low volume studies

Low-volume emphasis based on feedback from Coalition members

- ✓ Few (if any) case studies < 20k AADT in VPPII
 - Maryland: 10-15k AADT, Vermont: ~10k AADT
- ✓ **Key challenge:** hard to characterize ground truth
 - E.g., 10k AADT → only ~2 samples per 5 min

How to validate low-volume data?

- ✓ *Point-in-time* (operations)
 - Adapt traditional analysis (15-min bins)
- ✓ *Repeatable Patterns* (historical/planning)
 - Revive time-of-day distribution analysis





Ongoing Efforts

Develop geo-referencing method for use in VPPIII

- ✓ Primary validation resource drain is conflation between 3 different vendor basemaps and validation segmentations
- ✓ Currently we informally offer vendors the opportunity to report data directly on our validation segmentation (we discussed last year)
- ✓ VPPIII will standardize these requirements
 - Describe segment / point locations primarily in terms of latitude, longitudes, and headings

Streamline report format and validation data access

- ✓ Move methodology descriptions to a separate doc and distill reports to core findings and interpretation
- ✓ Provide a link to external site that archives graphs, detailed metrics, etc.

Status: Currently updating methodology documentation to prepare for VPPIII → expect later this year



Contracting

- ❑ Challenges remain with finalizing contracting on time
- ❑ We need to start even earlier to meet a July 1 deadline for FY2022
- ❑ AG comments greatly slow the process
- ❑ Procurement Amendments must follow State Agreements

Process:

1. State Agreements are finalized
2. State accounts are set up in the UMD system (KFS)
3. Upon receipt of KFS numbers, requests can then be sent to procurement

Jan 2020
Initial
Outreach

Mar 2020
State
Contracts

May 2021
State
Contracts

July 2021
New
Contracts

Feb 2020
State
Contracts

April 2020
State
Contracts

June 2021
Procurement
Starts



Contracting

States	Status	Vendor	Optional Products
Massachusetts**	Completed	INRIX	Trip Reports RITIS Optional Products
Rhode Island**	Completed	INRIX	Traffic Analytics and Datasets RITIS Optional Products
New Jersey**	In process	INRIX	HELP RITIS Optional Products
PennDOT	In process	INRIX	HELP
PA TPK	Completed	INRIX	HELP
Maryland**	In Process	INRIX HERE TomTom	HELP
Virginia**	In Process	INRIX	
North Carolina	In Process	HERE	
Georgia	Completed	HERE	HERE Traffic Services (included) Traffic Analytics (included) HERE Location Platform and Software (included) HELP
Tennessee**	Completed	INRIX	Dangerous Slowdowns

**XD Segment Traffic Archive Data Downloader (included)



Data Use Agreements

Primary State DUA's

- 10 all-in state agencies

Affiliate Agencies

- 104 agencies

Consultant and Universities

- 202 personnel from firms and schools

Changes/Updates:

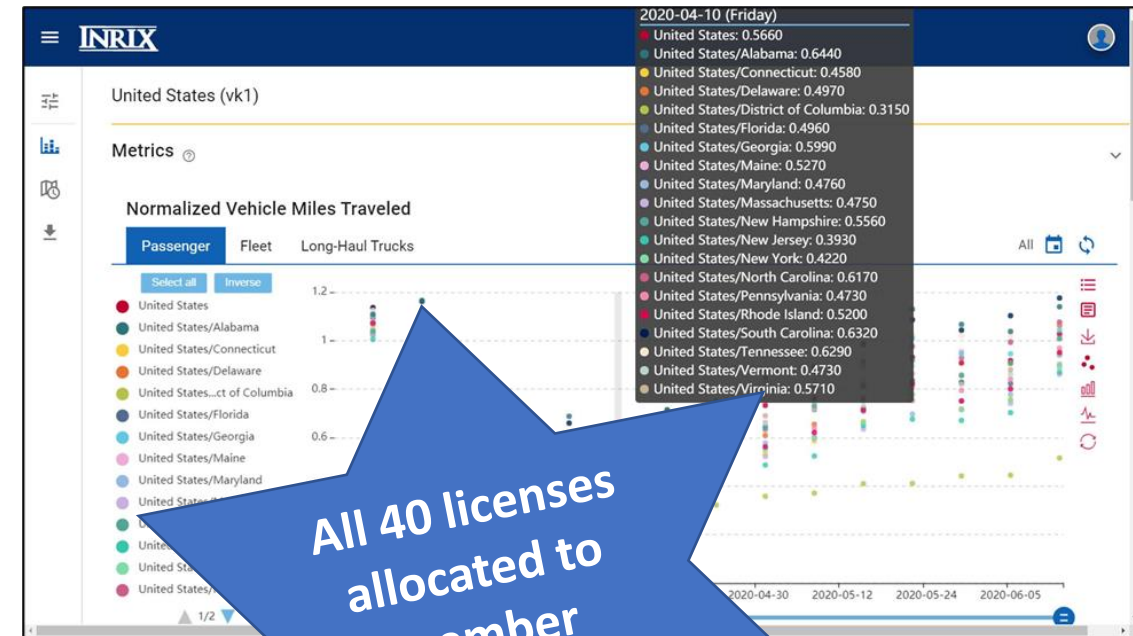
- Multiple Users can be appended to the same DUA
- Undergoing review of current consultant DUA's
- Automating submission process (like Ops Academy)
- Updated Quick Start sheet with DUA Instructions in process

DUA Information			DUA Holder Information		
Date rec'd signed DUA	Expires	Notes	Organization Name	Last Name	First Name
Consultants					
3/30/2020	6/30/2020		ICF Incorporated, L.L.C. (Baltimore Metro Council)	Dhuri	Sunil
11/27/2019	9/1/2021		AMT (DDOT)	Narootenezhad	Shiva
7/7/2020	2/10/2021		Four Square Intergrated ITP (DDOT)	Roberts	Jamie
8/8/2019	3/1/2021		Kimley Horn Associate (DDOT)	Tong	Jixin
3/17/2016	12/31/2020		University of DC (DDOT)	Yu	Yao
12/2/2019	12/31/2021		Carnegie Mellon University (DOE)	Clark	Patty
9/26/2017	1/31/2020	DUA updated	AECOM (GDOT)	Dwayne	Tedder
7/22/2020	7/31/2024		AECOM_Global Users (GDOT)	Ale Mohammadi	Mojtaba
7/22/2020	7/31/2024		secondary contact	Alexander	Ty
7/22/2020	7/31/2024		secondary contact	Anderson	James
7/22/2020	7/31/2024		secondary contact	Andrews	William
7/22/2020	7/31/2024		secondary contact	Babihuga	Donna
7/22/2020	7/31/2024		secondary contact	Berg	William
7/22/2020	7/31/2024		secondary contact	Brachmi	Rhiz
7/22/2020	7/31/2024		secondary contact	Krishnan	Anagha
7/22/2020	7/31/2024		secondary contact	Coleman	Jonathan
7/22/2020	7/31/2024		secondary contact	DeVos	Todd
7/22/2020	7/31/2024		secondary contact	DiSanza	Michael
7/22/2020	7/31/2024		secondary contact	Dorminey	Madison
7/22/2020	7/31/2024		secondary contact	Evans	Wade
7/22/2020	7/31/2024		secondary contact	Fox	Kiesha
7/22/2020	7/31/2024		secondary contact	Ganesan	Sharma
7/22/2020	7/31/2024		secondary contact	Graham	Mia
7/22/2020	7/31/2024		secondary contact	Green	Matthew
7/22/2020	7/31/2024		secondary contact	Huffman	Kyle
7/22/2020	7/31/2024		secondary contact	Hurt	Travis
7/22/2020	7/31/2024		secondary contact	Ip	Spencer
7/22/2020	7/31/2024		secondary contact	Johnson	Catherine
7/22/2020	7/31/2024		secondary contact	Joseph	Stefon
7/22/2020	7/31/2024		secondary contact	Lee	Warren
7/22/2020	7/31/2024		secondary contact	Legg	Jeff
7/22/2020	7/31/2024		secondary contact	Liguori	Cole
7/22/2020	7/31/2024		secondary contact	Mapp	Jamie
7/22/2020	7/31/2024		secondary contact	Martin	Dwight
7/22/2020	7/31/2024		secondary contact	Mohler	Scott
7/22/2020	7/31/2024		secondary contact	Montigny	Pete
7/22/2020	7/31/2024		secondary contact	Murata	Kai
7/22/2020	7/31/2024		secondary contact	Nastasi	Sarah
7/22/2020	7/31/2024		secondary contact	Pike	Ian
7/22/2020	7/31/2024		secondary contact	Price	Geoffrey
7/22/2020	7/31/2024		secondary contact	Queen	Carly



Volume Trend Data Licenses

- Procured by the Coalition for Member States
- Free access to INRIX Trip Trends Dashboard with indices for VMT, Trip Counts, Trip Durations
- User training was scheduled
- Seasonality adjustments will be implemented in July



All 40 licenses
allocated to
member
agencies



New Website- www.tetcoalition.org

Contract Docs & Coverage Info | Data Validation | Reference Docs and Presentations

Contract Documents & Coverage Information: includes contracting documents and data use agreement template.

VPP/II (from 7/2014 to present)

- VPP DUA – Primary
- VPP DUA – Secondary
- VPP/II RFP
- VPP/II Amendment 2
- VPP/II Amendment 3
- State Coverage Table

The Eastern Transportation Coalition
 Legend: all-in, partial, no VPP data
 Revised: May 2020

TRANSPORTATION SYSTEMS MANAGEMENT AND OPERATIONS

TRAVELER INFORMATION

- I-95 Live Traffic
- 511 Traveler Information
- Traveler Information Apps
- Commercial Vehicle Operations Online Portal

PEER EXCHANGES

- Events
- Webinars
- Operations Academy

DATA TOOLS

- VPP Marketplace
- RITIS & PDA Suite



CITE Training

CITE Learning Portal
Furthering safety and reliability transportation goals through education and workforce development

Log in

Don't miss these NEW course offerings!

 TSMO 101 - What Is This TSMO Thing Anyway? FREE Course! Available now! Self-Enroll!	 Program Planning for TSMO Only available as a blended learning course! Register now!	 CMM: Assessing Agency Capabilities Register now and take with Program Planning for TSMO!
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For more information contact
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(mql@i95coalition.org)



CITE SELF-STUDY COURSES - Coalition Subsidized for Members

- [Data Archiving and Analytics for Planning, Operations, and Safety](#)
- [Database Management System Essentials](#)
- [Deploying ITS: Strategic Planning and Implementation](#)
- [Fundamentals of Transportation Management](#)
- [Improving Highway Safety with ITS](#)
- [ITS Awareness](#)
- [National ITS Architecture Fundamentals](#)
- [Network Design and Deployment Considerations for TSMO Managers and Professionals](#)
- [OPM01: Introduction to Operations Performance Measures and Management](#)
- [OPM02: Nuts and Bolts of Operations Performance Measurement](#)
- [OPM03: Operations Performance Management](#)
- [Pavement Marking](#)
- [Project Management for High Tech Systems](#)
- [Systems Engineering for Advanced Transportation Projects](#)
- [Systems Engineering Fundamentals](#)
- [Telecommunications and Networking Fundamentals](#)
- [Traffic Signal Operations](#)
- [Transportation Cyber Security](#)
- [Travel Time: Vehicle Probe Data](#)



FY2020 YEAR IN REVIEW



FY2020

COALITION WORKING GROUPS

The Coalition manages Working Groups to focus on topic areas of interest.

CONNECTED & AUTOMATED VEHICLE REGIONAL WORKING GROUPS

The Coalition's CAV program is structured around three working groups: New England, Mid-Atlantic, and Southeast regions. These smaller groups meet quarterly (in-person once per year) to share updates, focus on mutual areas of interest, and pursue opportunities at a regional scale. For example, the New England CAV group was recently awarded funding through the New England Transportation Consortium to conduct a connected and automated vehicle legal and regulatory assessment.



NEW ENGLAND

MID-ATLANTIC



YEAR IN REVIEW



HIGHWAY OPERATIONS GROUPS

Highway Operations Group (HOG) forums are conducted in five regional areas (New England, Tri-State, Delaware Valley, Potomac, and Southern). Member agencies meet in person to discuss challenges and identify operational strategies that extend within a state, across jurisdictional boundaries, and often across state lines. HOGs are unique in that they bring together policy, planning, operations, maintenance, and first responder personnel for discussions on how to improve TSMO strategies and program.



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Find the report on the website
www.tetcoalition.org

FY2020

COALITION WORKING GROUPS

TOLLING VIOLATION ENFORCEMENT AND RECIPROcity (TVER) WORKING GROUP



four strategies: exploring opportunities for regional smart payment options, collaborating with DMVs and AAMVA, advancing violation enforcement reciprocity agreements, and increasing awareness of toll payment options and reduction of toll violations for motor carriers. The TVER Working Group convenes 2-3 times per year to focus on relevant topics. During FY2020, the workshops concentrated on addressing heavy toll violators, and toll collection methods to make it easier for customers to pay. For each event a white paper was prepared to provide context and background, and member agencies shared insights, lessons learned, and identified opportunities for progress through collaboration.

TRUCK PARKING WORKING GROUP

Members of the TVER Working Group include tolling agencies, state DOTs, and DMVs from throughout the region. Initially convened to advance tolling reciprocity agreements among Corridor states to support collection of out-of-state tolls, the focus of the group since expanded with the mission of helping member states increase revenue by improving toll collection methods. The group is working toward this goal with

The Truck Parking working group is comprised of Coalition agency members including from planning, operations and maintenance who are working on various activities related to addressing truck parking needs. Coalition hosted webinars/conference calls are held on a periodic basis, combining presentations on truck parking activities with "roundtable" information exchange among states to provide updates on upcoming or current truck parking studies, experiences with truck parking information technologies or capacity projects underway as well as bringing members insight into new approaches in the public and private sector to address capacity needs.



YEAR IN REVIEW

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Questions



Thank You!

VPP RFP Overview Meeting starts at 3 pm – 1 hour overview session

- Products
- Validation Program
- Data Use and Sharing
- RFP Timeline