THE EASTERN TRANSPORTATION COALITION

CONNECTING FOR SOLUTIONS

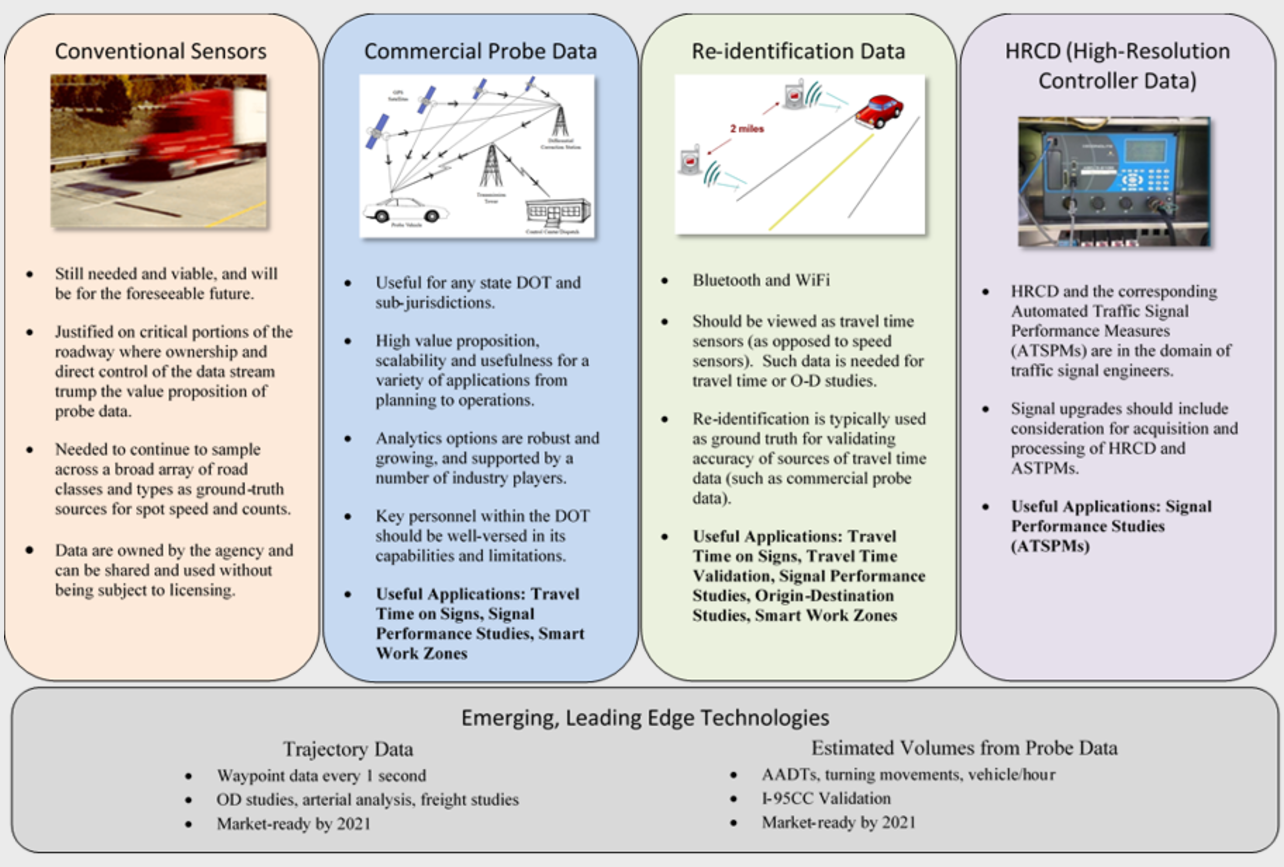
TSMO: The Changing World of Optimal Traffic Monitoring
Web Meeting
Follow-Up - January 2021

Thanks to those who participated in The Changing World of Optimal Traffic Monitoring Web Meeting held on December 10, 2020. Please click on the links below for more information about the event or visit the TSMO section of the new website (https://tetcoalition.org/projects/tsmo-events-webinars/) on the Webinars tab.

- Presentation with Audio
- Slides Only
- Question and Answer Summary

Presentation #1 – Optimal Traffic Monitoring Strategies

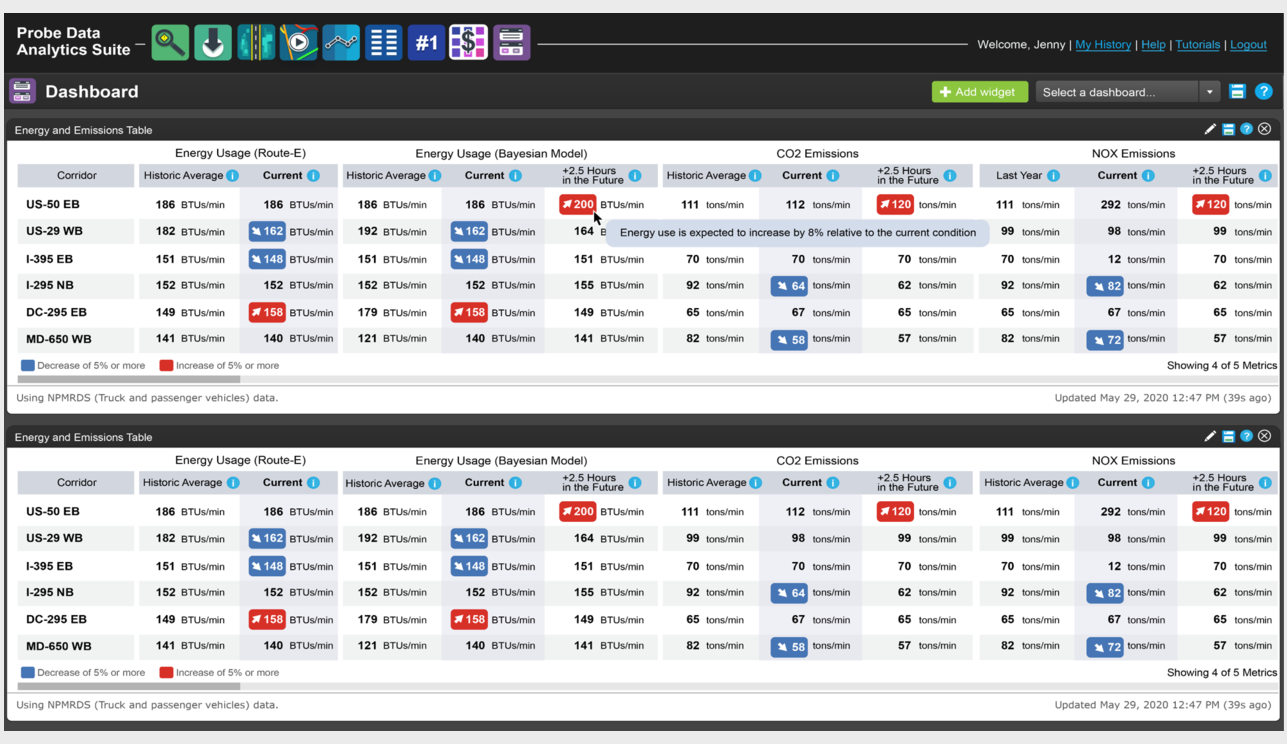
Stan Young of NREL provided an overview of the *Optimal Traffic Monitoring Guide*. The guide is intended to raise awareness of current and emerging sources of traffic data and their applications. This includes sensors, probe data, re-identification data, High-Resolution Controller Data (HRCD) and well as other recent/emerging technologies (shown below). Stan described the operation of each technology and reviewed the most appropriate uses for each one.



Emerging leading edge technologies.

Presentation #2 – New Traffic Monitoring (and decision-making) Opportunities

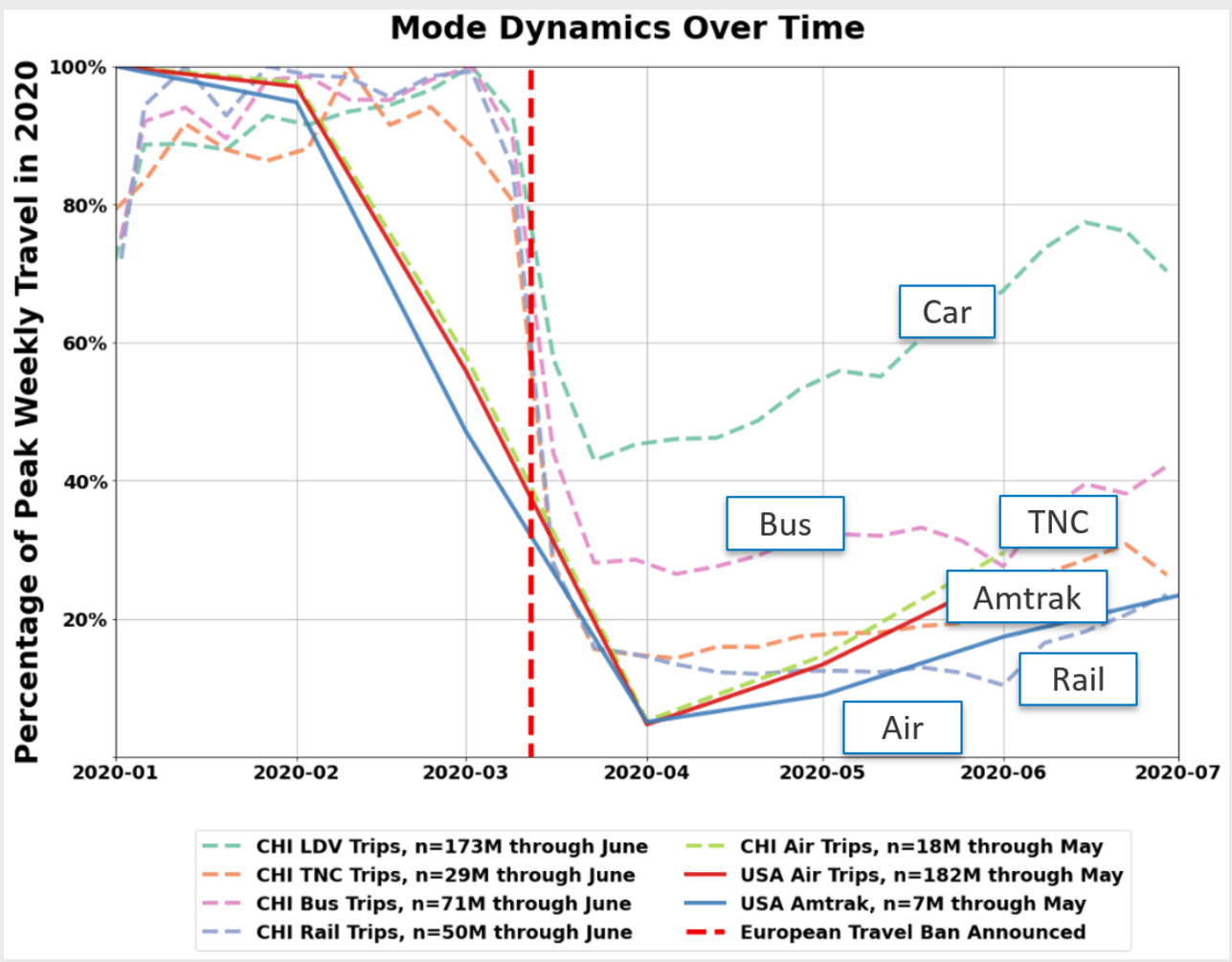
Michael Pack of UMD CATT Lab discussed a variety of traffic monitoring resources, including the FHWA Traffic Monitoring Guide - 2016 Edition – specifically Chapter 6, the NCHRP Research Report 920, and much more. Links to these resources are also avaliable on the last slide of the presentation and in the Q&A Summary. He also discussed the applications of the Probe Data Analytics Suite, which range from Probe-based Speed Data to Predictive Energy Usage and Emissions. Currently, the UMD CATT Lab has developed a COVID-19 Impact Analysis Platform to track the effect of COVID-19 on travel to a very granular level. The platform is also able to track the type of trip taken (work or leisure). Additionally, Michael discussed the Causes of Highway Congestion pie charts which will provide data at a regional level based upon the local factors that are the cause of the congestion.



An example of a dashboard from the Probe Data Analytics Suite.

Presentation #3 - Monitoring COVID-19 Mobility Impacts

Stan Young of NREL spoke about the work completed by the NREL team to understand the impact of COVID-19 on the travel industry, mobility behavior, and population flow. This was a collaborative effort among many agencies funded by the USDOE and Office of Vehicle Technologies. Stan reviewed which modes of travel were hit the hardest, and which ones are recovering more quickly (shown below). Regarding population flow, people are traveling slightly more for healthcare-related reasons and significantly more for recreational purposes.



A graph showing which modes are recovering the fastest from the impacts of COVID-19.

Upcoming Coalition Meetings

- RITIS User Group Web Meeting – February 11, 2021 - more information coming soon!

Follow the Coalition on YouTube and subscribe to be informed!

Recordings from many of the Coalition's webinars are available here - take a look!

Questions or Comments:
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