

TRAFFIC SIGNAL SUBCOMMITTEE

Thursday, August 26, 2021

MINUTES

1. WELCOME AND INTRODUCTIONS

Mr. Bala Akundi (BMC) welcomed everyone, followed by a round of introductions.

2. REVIEW OF PREVIOUS MEETING NOTES

Mr. Akundi went over the minutes from the previous meeting on May 20, 2021. The minutes were approved without any modifications.

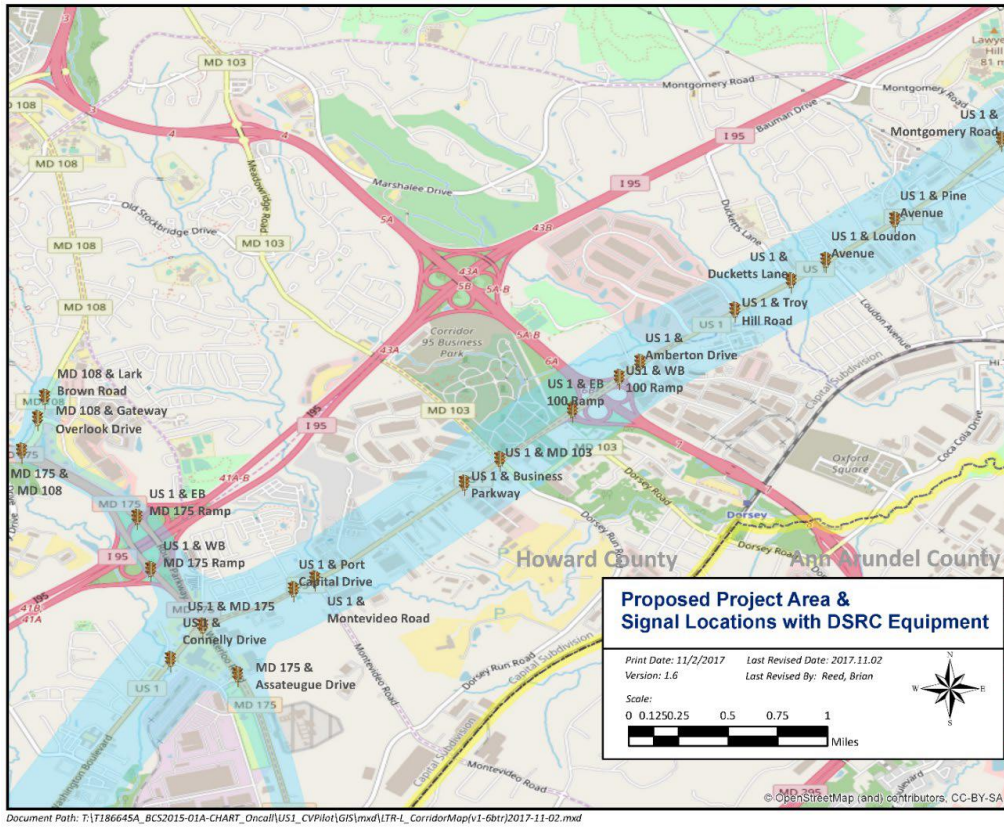
3. CONNECTED VEHICLE APPLICATIONS WITHIN THE US 1 CORRIDOR

Ms. Carole Delion, Division Chief, CATS Division, (MDOT SHA) briefed the committee on connected vehicle applications within the US 1 corridor between Baltimore and Washington to pilot signal phases and timing, as well as traffic incident management. Before going into project specifics, Ms. Delion gave an overview of a connected ecosystem that includes vehicle-to-vehicle (V2V), vehicle-to-infrastructure (V2I) and Vehicle-to-everything (V2X) communications and the technology used to communicate (DSRC, C-V2X).

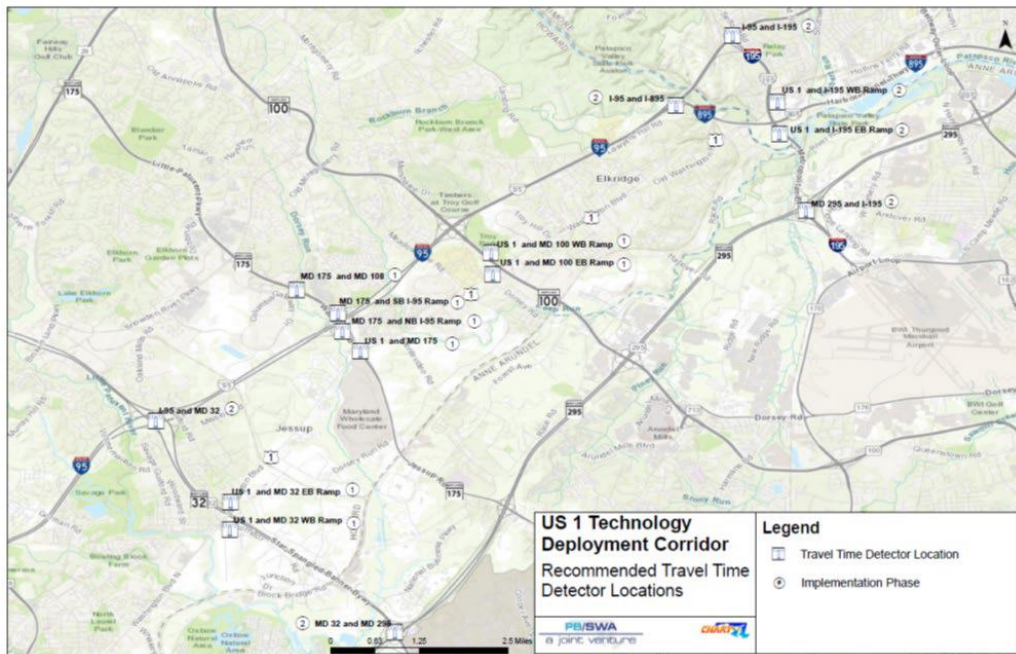
The US 1/I-95/MD 175 technology corridor pilot project will include messaging over two separate deployments:

- Traffic Signal data to approaching vehicles with associated lane / approach information (Signal Phase and Timing)
- Origin-Destination data during incident conditions (or other major events)

Specific deployment locations for signal data are shown in the figure below:



Specific deployment locations for origin-destination data are shown in the figure below:



The schedule for deployment is currently in development. For more details, refer to the presentation slides attached.

[PowerPoint: US1 SPaT MDOT SHA]

4. INRIX SIGNAL ANALYTICS

INRIX Signal Analytics is a cloud-based analytics application that uses crowd sourced vehicle waypoint data to help transportation professionals, assess and improve, their signalized intersection performance. The application summarizes individual vehicle statistics without the need for permanent vehicle detection infrastructure. Ms. Amy Lopez, Director Public Services, and her team provided an overview. The shared documents go into a lot of technical detail on how this application works and how it can benefit state and local jurisdictions.

[PowerPoint: INRIX Signal Analytics General Overview, Signal Analytics Data Validation Metrics FAQs]

5. ROUNDTABLE DISCUSSION

Mr. Akundi noted that the Signal Forum is scheduled for November 4 at the Maritime Institute in conjunction with the ITSMD Annual Meeting. It will likely be a hybrid event with online access.

ATTENDANCE

Amy Lopez, INRIX
Andrew Burke, MWCOG
Bala Akundi, Baltimore Metropolitan Council (BMC)
Ben Myrick, MDOT SHA
Bo Zhou, Anne Arundel County DPW
Breck Jeffers, FHWA
Carole Delion, MDOT SHA
Charles Lattimer, UMD CATT Lab
Cindy Burch, BMC
Ed Stylc, BMC
Edward Myers, Kittelson & Associates
Eileen Singleton, BMC
Hiwot Habtemariam, MDOT SHA
Keith Riniker, Mead & Hunt
Kristen Haas, STV
Kristoffer Nebre, Baltimore County DPW&T
Michael Pack, UMD CATT Lab
Mike Massaro, INRIX
Minseok Kim, MDOT SHA
Robert Evans, Wallace, Montgomery & Associates
Roger Hale, TST
Seth Young, STV
Steve Remias, INRIX
Tina Fink, Toole Design

Vivek Hariharan, RS&H