

NEW YORK STATE ASSOCIATION OF MPOs

TRANSPORTATION SYSTEM MANAGEMENT & OPERATIONS (TSMO) WORKING GROUP

September 21, 2016

MEETING NOTES

1. Participating

- Mike Davis, GBNRTC
- Joe Bovenzi, GTC
- Jan Khan, NYMTC
- Mark Debal, PDCTC
- Mario Colone, SMTC
- Jim Davis, NYSDOT
- Tim Crothers, FHWA
- Noah Sapphire, SMART Consortium
- Steve Gayle, RSG

2. Presentation: Joah Sapphire, New York Strategic Market Alignment for Roadway Technologies (SMART) Consortium

Sapphire noted that the SMART Consortium began with a meeting in May 2014 involving the Governor's office, NYSDOT and UTRC to focus on how New York tests/deploys/regulates emerging transportation technologies.

His presentation was distributed to the group.

Additional comments:

- IoT facilitates the digitalization of the global economy
- IoT potential is difficult for public agencies like state DOTs to apply in the short term
- The NYC CV pilot project(<http://www.its.dot.gov/pilots/wave1.htm>) will deploy 10K City owned and fleet vehicles, and CV infrastructure along specific corridors in Manhattan and Brooklyn to test pedestrian and related safety applications.
- The cost of vehicle-based hardware is coming down. For example, LIDAR has gone from \$1M/unit to \$30K to \$10K/unit in OTTO autonomous truck applications

Gayle asked about the need for public investment in infrastructure to support the CV/V2I functions.

Sapphire responded that

- AASHTO had done work to quantify costs of sensor technology, nationally in the billions of dollars.
- New York City is spending \$20M for 10K vehicles and two corridors
- Watch Europe, with the Amsterdam Agreement supporting a cooperative solution for CV and AV; roadmap adopted April 2016

Bovenzi noted that GTC will address operations and CV/AV in their upcoming LRTP, and asked about appropriate policies that MPOs should consider.

Sapphire responded that it will be important to understand IoT and its underlying architecture.

Gayle noted that he is on an NCHRP research panel that is addressing policy and planning actions that State DOTs and MPOs can take to address externalities in a way that promotes market adoption of CV and AV. The report should be available in early 2017.

Bovenzi spoke to the range of assumptions of how infrastructure investment shapes the future to accommodate rapid advances in technology.

Sapphire suggested focusing on a need to better understand supportive transformation of what the MPO is doing.

3. Roundtable

a. MPO Updates

Bovenzi reported on the GTC ITS Strategic Plan that is underway, supported by the IBI Group. He referenced work from Florida DOT. He also spoke to managing ITS assets; for example, Monroe County has more than 100 CCTV cameras. They must plan for equipment upgrades and/or scheduled replacement, and software license upgrade costs.

Mike Davis reported on a series of projects underway at GBNRTC:

- Integrated corridor Management project. Presented at ITS NY. Cooperative sharing with Ontario MoT and ITS Canada. Using AIMSUM for meso- and microscopic modeling.
- Buffalo Niagara Medical Center, forecasting traffic needs for full area build out in 2020; looking at signal timing optimization, road diets
- Working with the NYS Thruway Authority on I-190/I-290 Exit 50/Route 33, using microsimulation modeling
- NYSTA North Grand Island bridge deck project, traffic detour
- City of Waterford Route 33 microsimulation modeling

Jan Khan reported that NYMTC is doing its LRTP update, which will include a TSM&O chapter. Asking about potential drivers of change and how they will impact the region.

Gayle noted that these reports highlight the importance of current ITS and M&O work, which should not get lost in the excitement about CV and AV technology. Others concurred.

b. NYSDOT Updates

Jim Davis reported that NYSDOT is involved in the ICM project for I-495 through New York City, coordinating with New Jersey.

Advanced Travel Demand Management (ATDM) strategic framework. Working with Operations group. Looking at internal processes

c. FHWA Updates

Crothers reported on upcoming Systems Engineering workshops in Hauppauge and Buffalo> he will send the informational flyer.

4. Next meeting:

December 21, 2016

1:00 pm