Exploratory Meeting on
Establishing an ITS Maryland Working Group for
Integrated Corridor Management (ICM) Planning and Deployment Activities

Wednesday, October 29, 2014; 1:00 to 3:00 PM
MDOT/SHA/OOTS Library
7491 Connelley Drive, Hanover, MD

1. <u>**SELF-INTRODUCTIONS AND MEETING PURPOSE**</u>

Eileen Singleton opened the meeting and explained the purpose was to discuss whether and how ITS Maryland could play a role in supporting SHA ICM/TSMO activities. One possibility, identified prior to the meeting, was the creation of an ITS MD ICM Working Group.

In discussing ICM, the scope of projects would include arterials and highways, transit, freight, real-time management based on current conditions, public-private stakeholders, etc.

There was some discussion about connected vehicles being an upcoming topic and another potential focus area of ITS MD. For example, AASHTO created a V2I Coalition. ICM is seen as being implementable in the near-term and implemented by the public sector at the state and local levels; while the connected vehicle area is a longer-term issue that is viewed as being driven more at the federal level and by the private sector.

It was noted that ITS MD is a volunteer organization so unless there is funding for a specific project, there are limitations on member's level of participation.

2. <u>**OVERVIEW OF ITS MARYLAND ACTIVITIES**</u>

<u>2014 Update to the ITS MD Strategic Plan</u>: Bob Winick chaired the work on the 2014 Update to the ITS MD Strategic Plan, and he provided an overview of the document. He noted that the Strategic Plan includes a reference to an Outreach Activity for a new Working Group for ICM activities. Bob also referenced the TRB Specialty Conference on ICM held this past June at which several ITS MD members were in attendance. The substance of the conference had an influence on the content in the draft update to the ITS Maryland Strategic Plan.

<u>ITS MD Working Group on Statewide ITS Architecture</u>: Tom Jacobs discussed his work overseeing the ITS MD Working Group on Statewide ITS Architecture that took place mostly in the 1999 to 2001 time period. ITS MD was able to bring in a diverse group of stakeholders to support the development of the Statewide ITS Architecture. While ITS MD is a volunteer organization, the architecture activity was funded by SHA. The state has taken over maintenance of the Statewide ITS Architecture; ITS MD continues host the ITS architecture on its web page.

3. **OVERVIEW OF RELEVANT SHA ACTIVITIES**

<u>Current Application to US DOT for an ICM Grant in Maryland</u>: In response to a request for expressions of interest from FHWA, SHA submitted an application requesting $250,000 to initiate development of ICM strategies in the broader MD 295 corridor including I-95 and US 1 between the Baltimore Beltway and MD 32. The proposed work includes development of: a Project Management Plan and Systems Engineering Management Plan; an ICM concept of operations; an ICM Analysis, Modeling, and Simulation Plan; and a deployment approach. SHA has not yet heard whether the application will be funded.

<u>Prior ICM Pioneer Site</u>: Gary Erenrich provided a brief overview of work performed to support the prior ICM "Pioneer Site" effort on I-270 in Montgomery County in 2006/2007. Products from this effort included a concept of operations, requirements document, and modeling plan. ICM operations were not implemented in that corridor. The project did not include freight. One question is whether the concept of operations (conops) would still be relevant given how much the environment has changed (i.e., how much real-time data is now available; active traffic management/dynamic traffic management was not available at that time). While real-time data is available now, the conops leaves facility control with the agency that owns it.

<u>SHA TSMO Activities</u>: Subrat Mahapatra provided an overview of SHA's TSMO activities:
- Identification of low cost bottleneck improvements (initiated several years ago when funds for larger projects were not available)
- Work zone performance metrics
- Annual Mobility Report
- CHART incident response
- Development of models that can help with operations planning (i.e., TransModeler)
- SHRP 2 grants:
  - Capability Maturity Model / TSMO Plan development
  - Operations modeling
  - Reliability grant
  - Freight modeling

SHA is approaching TSMO planning from both a top-down approach by getting buy in from decision-makers and a bottom-up by working with staff and using available technology.

4. **DISCUSSION OF POTENTIAL ROLE OF ITS MD**

The following items were identified as potential roles for ITS MD:

- Educate stakeholders on what is available
  - Serve as conduit for information, resources, training, advocate, legislative tech fair, web page

- Identify broader range of stakeholders
- Ingrain concepts
- Act as champion
- Serve as neutral convener
- Leverage knowledge of members
- Bring together connected vehicle and transit connected vehicle stakeholders
- Create TSMO Working Group to help identify other corridors to expand ICM
- Support implementation of State TSMO Plan
- Work with stakeholders to create a vision for expanding ICM in Maryland
- Provide support/input to SHA Mobility / Economy Key Performance Area (KPA) committee

Some questions that were raised include:

- How do integrated corridors fit into the larger system?
- Should ITS MD address connected vehicles in a more formal way – in the ICM working group (expand the scope) or create a separate working group?

5. **NEXT STEPS**

Subrat
- share State TSMO plan with the group and any other relevant documents

ITS MD (Keith Riniker / Kevin Lee)
- reach out to ITS America and other chapters to learn about what other chapters are doing
- discuss further at December Board retreat

ATTENDEES
Gary Erenrich, Montgomery County
Derek Gunn, SHA
Tom Jacobs, UMD CATT
Kevin Lee, Kittleson / ITS MD
Bailey Lozner, Kittleson / ITS MD
Subrat Mahapatra, SHA
Glenn McLaughlin, SHA / ITS MD
Keith Riniker, Sabra Wang & Associates / ITS MD
Eileen Singleton, Baltimore Metropolitan Council / ITS MD
Ruihua Tao, SHA / ITS MD
Bob Winick, MotionMaps LLC / ITS MD