



MEMORANDUM

ITEM #4

TO: TPB Systems Performance, Operations, and Technology Subcommittee (SPOTS) and Traffic Signals Subcommittee

FROM: Andrew Meese
TPB Systems Performance Planning Director

SUBJECT: Background Information on Planning for TPB's 2020 Connected and Autonomous Vehicles Forums

DATE: December 5, 2019

This memorandum provides information regarding ongoing planning for the National Capital Region Transportation Planning Board's (TPB's) winter/spring 2020 connected and autonomous vehicles forum events.

BACKGROUND

Connected and autonomous/automated vehicles are becoming a reality. While the timeframe for widespread adoption can be debated, there can be no doubt that a more connected and automated society is in our future. Automobile manufacturers and technology companies are racing to get the upper hand in the CAV field. Much of this research and development is being done with little regard to how CAV's will fit into the current transportation planning process. Jurisdictions are increasingly finding themselves playing catch-up regarding consideration of these new technologies in current and future infrastructure and plans. Before now, TPB and TPB staff activities have been limited mostly to monitoring the topic. But in our FY2020 Unified Planning Work Plan (UPWP), funding was specified for a regional forum on the topic (but now envisioned to be multiple forums), as well as for a consultant-developed white paper (not yet begun). These activities will advise on the topic of CAV in the context of the TPB's role as the federally-designated Metropolitan Planning Organization (MPO) for the National Capital Region.

ADVISORY GROUP

TPB staff has convened a CAV Forums Advisory Group to advise planning of the workshops. The advisory group is composed of several member agency technical representatives with a variety of perspectives and expertise, including:

- Bob Brown, Loudoun County
- Carole Delion, Maryland Department of Transportation – State Highway Administration
- Amanda Hamm, Virginia Department of Transportation Central Office
- Keith Jasper, Northern Virginia Transportation Authority
- Ed Jones, Prince George's County Department of Public Works and Transportation
- Kelli Raboy, District Department of Transportation
- Amir Shahpar, Virginia Department of Transportation Northern Virginia

Advisory Group meetings are taking place approximately monthly, conducted by conference call/webinar. TPB staff also welcomes comments from others, please contact Andrew Meese at ameese@mwkog.org.

IDEAS FROM TPB TRANSPORTATION DIRECTOR

Director Kanti Srikanth presented at an April 29, 2019 VDOT CAV forum and described the following as being regionally important CAV topics:

- Regionally consistent laws, policies, standards, and guidance to make CAV beneficial to all
- Data exchange, which will be critical for CAV operations
- Reimagining transportation infrastructure and operations
- Freight movement's unique needs

Forum discussion topics, of course, are not limited to this list, but we hope to reflect these ideas among others. Also, we are striving to put together sessions that are particularly relevant to transportation planning in the National Capital Region, and are not unnecessarily redundant with other recent or current CAV-related events or activities.

WORKSHOPS (DRAFT)

Currently TPB staff envision conducting three workshops in the winter/spring of 2020 (March to June time frame). The first two workshops will target senior transportation technical staff along with representatives from the TPB's Citizens Advisory Committee and Access for All Committee. The workshops perhaps would take place from 9:30 A.M. to 2:30 P.M, with working lunches. A third event would be a leadership forum targeting TPB members, perhaps taking place for a 90-minute period immediately prior to a TPB monthly board meeting.

Surveys of participants may be conducted prior to and during workshops to help guide discussions. Breakout portions may help delve into topics.

WORKSHOP #1 (DRAFT)

In the first workshop these three goals hope to be reached:

- 1) Establish a common baseline of CAV concepts, terms, and issues.
- 2) Inform participants of activities at Federal and State level.
- 3) Review and discuss potential impacts of CAV in next 5 to 10 years

A preliminary agenda for the workshop:

Activity #	Event
1	Welcome, Introductory Video and Introductions

2	Presentation: Overview of Connected and Automated Vehicles (CAV 101)
3	Panel/discussion/different viewpoints based on expertise (freight, bike ped or other): potential impacts of CAV in next 5-10 years
4	Public opinion trends on CAV
5	Poll on regional issue priorities
6	Lunch
7	Panel: What is being done to plan and prepare for CAV at State and Federal Level?
8	Break
9	Round Table Breakout Discussion: conduct breakout discussions that focus on topics of regional interest that require coordination/collaboration (data, cyber security, policy coordination, freight, curb and ROW allocation, equity, etc.)
10	Report out
11	Wrap up/Next Steps
12	Adjourn

WORKSHOP #2 (DRAFT)

In the second workshop these three goals hope to be reached:

- 1) Discuss how CAV impacts MPO and local jurisdiction responsibilities, with speaker from an MPO that highlights best practices
- 2) Discuss what MPO and TPB members need to prepare /plan
- 3) Recommendations of actions for MPO next steps

A preliminary agenda for the workshop:

Activity #	Event
1	Welcome and Introductions
2	Presentation: Key areas that impact MPO and local government responsibilities
3	Presentation: Keynote speaker
4	Facilitated Panel: Perspectives from CAC/AFA, Bike/Ped, Safety, Freight, and Systems Performance, Operations, and Technology (SPOT) Subcommittee members
5	Lunch with Round Table Breakout Discussion: How do CAV impact our ability to achieve our goals/region's values

6	Report out
7	Break
8	Activity: What do members need? What can the MPO do to facilitate planning and preparation for CAV? Focus on individual topics such as freight, bike/ped, equity safety, operations etc.
9	Report out
10	Wrap up/Next Steps
11	Adjourn

LEADERSHIP FORUM (WORKSHOP #3)

Planning for this is still under way. Some form of report-out from first two workshops will be incorporated.

POTENTIAL SPEAKERS

Staff is compiling a list of potential speakers. These would include key representatives of member agencies, subject matter experts, perhaps from other regions, and representatives of key stakeholder groups. Advice will be welcome from the Advisory Group on potential speakers.

NEXT STEPS

Planning the forums is expected to be iterative between now and the forums (for example, choices on topics will influence which speakers may be invited, and vice versa). Staff continues to work with the Advisory Group on identifying and prioritizing topics. Always, please feel free to reach out to us with questions or suggestions.