

V2I Deployment Coalition

Deployment Initiatives Technical Working Group (TWG 1)

April 28, 2016 Webinar

Notes and Summary of Discussions

Welcome / Overview of Webinar Logistics

Bill Legg welcomed the attendees. A list of those in attendance is provided at the end of these notes. This list may not be comprehensive, as attendees may have joined late and were not identified on the webinar. Please contact Dean Deeter at deeter@acconsultants.org to be added to the list.

Recap of the V2I Deployment Coalition (V2I DC) April In-person Meetings

Bill Legg provided a recap of the TWG 1 in-person meeting in Detroit, MI on April 20th. Approximately 16-20 members attended the breakout session. There were also members of other TWGs joining the TWG 1 breakout throughout the day, as well as TWG 1 members leaving to join other TWGs. During the April 20th breakout, TWG 1 members revisited and reviewed activities performed by the TWG since June 2015, with an emphasis on identifying remaining actions to be performed before June 30, 2016. Note: The agreed actions to be completed are summarized in the next section.

Bill then updated members on the V2I DC Executive Committee meeting that was held during the afternoon of April, 21, 2016. The TWG chairs updated the Executive Committee on the progress of each of the TWGs. In addition, the Executive Committee identified a set of priority areas for the V2I DC to address in upcoming years to be (numbered here for reference only):

1. Workshop to discuss OEM and owner/operator goals and needs for V2I deployment.
2. SPaT deployment idea
3. Additional methods for providing deployment guidance
4. Build understanding of and identify how to address security issues
5. Roadmap or deeper guidance for four priority apps
6. Maintaining ongoing, broad-based outreach
7. Mining projects and proposals for deployment experiences

Remaining TWG 1 Activities to Be Completed Prior to June 30, 2016

The following remaining action items were identified for TWG 1 to bring closure to activities the working group has performed in the initial year:

- To approach TWG 3 to raise awareness of the issue that is “potentially conflicting messages between in-vehicle displays (not regulated by MUTCD) and dynamic message signs on the

roadside”, and to request this to be advanced as discussions continue between infrastructure owners/operators and the OEMs (a result of Issue #13 activities).

- To request TWG 2 (Research) to consider the issue and challenges related to *the condition of lane markings and consistency of roadside equipment* when identifying future research activities (a result of Issue #13 activities). (Note: At the April 21st plenary, TRB presented that a research project related to lane markings is one of the planned research initiatives).
- To continue working with TWG 4 (Guidance) to review guidance and determine if an additional Federal statement should be requested beyond the guidance, and work with TWG 4 to prepare this request (as a way of wrapping up efforts on Issue #14).
- To attempt to organize presentations during the TWG 1 June webinar from UMTRI and possibly NYCDOT to share V2I Maintenance Cost examples (as a way of wrapping up efforts on Issue #15).
- To work with the Executive Committee to encourage more transit involvement in the V2I DC.

Bill shared that his understanding is that the V2I DC will continue beyond June 30th, and that TWG 1 will continue to meet monthly by webinar. Bill shared that over the coming months he would lead a process to define a work plan for the TWG for the next one to two years.

DSRC Infrastructure for SPaT Broadcast – The Bold Plan

Bill led a discussion to introduce the concept to encourage the deployment of DSRC infrastructure with Signal Phase and Timing (SPaT) broadcast at a minimum of 20 intersections in each state in the coming three years, and to commit to operating these SPaT broadcasts for at least ten years. The concept recognizes that additional more complex deployments of V2I DSRC broadcasts are also being considered by DOTs and this would in no way prevent such deployments, but this is one basic entry level deployment that could be done at intersections across the country, and SPaT broadcast would be the minimum goal.

Bill explained that the benefits of state and local agencies deploying these technologies would be:

- The deployment will give DOTs an entry into the V2I deployment and operations arena (including valuable experience with procurement, installation, operations, and licensing);
- The deployment will help promote future (more advanced) V2I deployments; and
- It will show a commitment to the OEMs.

The idea is for TWG 1 to work with AASHTO to develop a coordinated resolution to encourage this deployment. TWG 1 and the CAV WG could cooperate together to provide supporting materials that state and local agencies might need to deploy SPaT technologies. These supporting materials may include:

- Guidelines for selecting corridors
- Lists of hardware & suppliers
- DSRC licensing information
- Installation instructions
- Estimated costs (install & maintenance)
- Identifying information on funding opportunities.

There was general support from TWG 1 members, with some questions regarding funding for the initiative, and whether there should be additional V2I applications deployed at the same time. Bill suggested a more detailed discussion about the concept at the May webinar, where some of the details could be flushed out. Also, a draft one-pager will be circulated with the May webinar agenda for the group to discuss.

Next Webinar Topics

Bill reminded members that the next webinar will be May 26, 2016 from 2:00 – 3:00 PM Eastern.

TWG 1 April 28, 2016 Webinar Participants

- Bill Legg, Chair
- Jonathan Martinez
- Joey Yang
- Bob Arnold
- Mohammed Hadi
- Reza Karimvand
- Jonathan Riehl
- Leiza Moniz
- Jim Peters
- Gary Strack
- Brian Watson
- Linda Lee
- Bindesh Patel
- Peter Thompson
- James Li
- Kevin Comstock
- Dean Deeter