V2I Deployment Coalition Workshop
July 13, 2015 Webinar
Notes and Summary of Discussions

Welcome / Overview of Webinar Logistics

Bill Legg introduced himself as the Chair of the TWG and Joe Averkamp as the Co-chair. He also introduced Dean Deeter as the liaison to the TWG.

Bill noted that this was the first webinar of the group. The plan is for roughly one webinar every month.

Bill identified the names of individuals on the call (based on what he could see on the webinar attendee list). He asked additional attendees to identify themselves. Note: a list of webinar attendees is included at the end of this summary. Every effort was made to capture all the names of attendees, however it is likely that attendees joined late or were not correctly identified by the liaison. Therefore, this list is not necessarily a comprehensive list of attendees. If anyone wishes for their name to be added, please notify Dean Deeter at deeter@acconsultants.org.

Brief Recap of the role of TWG 1

Bill stepped through a reminder of the role of the overall V2I DC. The V2I DC will be performing input level actions on a number of V2I issues and identifying gaps in current V2I efforts. The V2I DC will work to identify how to resolve the gaps, how to resolve the issues, and help to figure out how the V2I stakeholders should move forward to ensure successful V2I deployments.

Bill then reminded the members that the role of TWG 1 (Deployment Initiaitves) is to focus on the perspective of V2I deployment initiatives that are either underway, completed, or planned. As discussed in the Pittsburgh workshop, the V2I DC TWG 1 will attempt to work with V2I deployment initiatives to represent the lessons learned from the initiative and also will share information with (and among) the initiatives, as appropriate.

Review of Documents Circulated

Bill stepped through the documents circulated, including:
- The summary of TWG 1 breakout session in Pittsburgh;
- The initial preliminary work plan for TWG 1 that was circulated to TWG 1 members the week after the Pittsburgh meeting;
- The most recent document, an excerpt from a larger draft document that illustrates the preliminary draft interest of each TWG in the 15 issues, and then defines the planned activities for TWG 1.

Dean stepped members through the 3rd document, inviting input to both tables (Table 1 is a summary of which TWG has expressed possible interest in each issue; Table 2 is a summary of the proposed activities of TWG 1 for each issue). The group had no input on Table 1. The following input was received for Table 2 (activities planned for TWG 1):

Comments on activities planned for Issue #1:
- There was a suggestion when asking deployment initiative sites what their most critical V2I applications were to give them a set of V2I applications to select from (and to describe them in terms of the data exchanges both ways (V to I and I to V) rather than just the high level names of the application. Note: this will be incorporated when the questionnaires are developed.
- There was a comment on the activity of Issue 1 asking whether DSRC applications will be separated from cellular applications.
- Blaine Leonard commented that he chairs an AASHTO Working Group with similar interests to the activities planned for Issue 1 and the group should consider a cooperative effort.

Comments on activities planned for Issue #7:
- The was a clarification question if he group would only be surveying pilot deployment sites or all sites to ask about the cost / benefit information that is needed to reach decisions about V2I deployment. The clarification was that the planned action was to survey and synthesize input from as many states as possible about what information they will need to reach V2I deployment decisions, then to share that via. FWHA with the pilot deployment sites to the extent possible.
- There was a comment that an NCHRP project (03-101) is addressing V2I benefits and costs and could be input to this activity.

Comments on activities planned for Issue #13:
- There was a comment that there is an IEEE Traffic Control Device Task Force on Traffic Control Devices with interest in V2I and input to the MUTCD that might be a good recipient of any information gathered during the activities for Issue #13. Action item is to find more information on this Task Force.

Comments on activities planned for Issue #14:
- No comments were received on this issue

Comments on activities planned for Issue #15:
- There was a comment that maintenance costs will vary by each state.
- Joe Averkamp noted that the intent of our input to Issue #15 was to provide some high level guidance as to what maintenance costs might be and what factors might contribute to maintenance costs.
- There was a suggestion to pick one DOT at one location and document the V2I maintenance costs for that location and let other sites adjust according to their geographic differences.
- Another comment reminded the group that trying to develop actual maintenance costs (even for one DOT at one location) are very difficult at this stage, and supported the notion that as the TWG representing deployment initiatives, if this group can put together a framework of what information is needed and provide the suggested data to gathered by pilot deployment sites (to be asked of the next generation of pilot deployment sites) that is probably the most productive. It was confirmed that this was the intent that the group discussed in Pittsburgh.
- Feedback was offered from the European experiences. They found it very difficult to estimate maintenance costs. They did not have much experience to go on, they predicted that a lot of updates and enhancements were needed, and these would be tough to estimate, especially in general terms.

Technical Discussion Topics

Bill introduced the agenda item to discuss actions that the TWG can begin in relation to Issues #1 and #14.

Issue #1 Actions – Surveying/Polling Pilot Site Applicants about their most critical V2I Applications

- Bill noted that the intent of TWG1 actions in Issue #1 are to poll as many V2I initiatives (funded and un-funded) to understand what they identified as their most critical applications and why.
- In Pittsburgh, the group discussed webinars, but given feedback from FHWA it will be difficult to get contact information. Bill now suggests that a survey be created that can be sent to the sites that proposed.
- Input was offered that the poll should ask for details about the V2I applications (what does the vehicle receive from infrastructure; what does the infrastructure receive from the vehicle) not just high level V2I application names.
- Bill noted that an action will be taken to poll TWG 1 members to ask for any contacts they have of individuals involved in preparing or submitting pilot deployment applications.

Issue #14 Actions – Polling V2I industry to request their input on the need for formal Federal support of V2I.

- The group discussed the plan for a poll (potentially in conjunction with the poll related to Issue #1) to gather input from the industry on the need for a federal statement about V2I.

Action Items and Next Steps

The immediate next steps are as follows:

1. Poll TWG 1 members to gather as many contacts of individuals who could represent V2I initiatives to be surveyed about the most critical V2I applications.
2. Develop initial draft questions for a survey of V2I initiatives regarding the most critical V2I applications for review by TWG 1 members.
3. Develop initial draft questions for a survey of the V2I industry on the need for a federal support statement for V2I for review by the TWG 1 members.
4. Discuss survey questions and a preliminary list of contacts to send the survey(s) to on the next TWG call (August call).

TWG 1 July 13 Webinar Participants

Bill Legg, Chair	Dave Miller	Sue Bai
Joe Averkamp, Co-Chair	Blaine Leonard	Reza Karimvand
Dennis Motiani	Ray Resendes	Hideki Hada
Brian Watson	Kyle Garrett	Daniel Worke
Leland Key	Oubada Abuchaar	Jim Peters
Oliver Brandl	Faisal Saleem	John Maddox
Joey Yang	John Lower	Zack Rubinstein
Linda Lee	Kelly McVeigh	Mark Kopko

Steve Galgano

Ben Walker

Randy Iwasaki

Roger Wentz

Brian Cronin

Dean Deeter

Mohammed Talas

John Maddox