Meeting summary for CVPFS May 2025 Conference - Maryland (Day One) (05/06/2025)

Recap:
The meeting focused on the latest developments in connected vehicle technology, including state-level initiatives, federal projects, and industry standards. Key topics included challenges in system implementation, cybersecurity, data management, and policy considerations. There was also discussion about future planning, tools, and resources to support the continued advancement of connected vehicle technology.

Next Steps:

- Cohort members to respond to the national V2X deployment map data call if not already done.
- JD Schneeberger (JPO) to publish approved V2X standards briefs on the Smart Community Resource Center.
- JD to explore options for online or self-paced V2X training modules.
- Justin Anderson to create and post a one-pager on the RSU licensing process to the Resource Center.
- Agencies with DSRC operations to confirm with the FCC by May 12 that the lower 30 MHz spectrum is vacated.
- Justin to refine and update TIM best practices based on feedback and new developments.
- USDOT team to integrate guidance from "Connecting the West" into V2X best practices.
- Agencies to reach out to Justin with any FCC licensing or device certification queries.
- Agencies to share checklists or resources for RSU deployment to help create generic guidance.
- Justin to explore interoperability between USDOT's V2X testing app and ValTech's app via Verizon's V2X network.
- Participants to provide feedback on the map guidance document updates to Dean Deeter and Kyle Garrett by July 31.

- Dean and Kyle to finalize the map guidance document by July 31.
- Kyle to discuss RGA applications with OEMs and complete the RGA transition report in the coming months.
- Interested participants to join the map guidance panel webinars on May 16, June 20, and July 18.
- All to submit complex intersection mapping scenarios to Dean and Kyle for potential inclusion in the map guidance document.
- Marisa and team continue developing the map tool to support RGA message creation.
- All to consider pilot deployments and demos for RGA messages.
- Dean to present an update on connected work zones in tomorrow's meeting.

Summary:

Maryland CV System Challenges and Equity:
Warren Henry provided an update on Maryland's connected vehicle (CV) system, highlighting challenges in legislation, policy, and enforcement. He mentioned the establishment of a CV working group with subgroups for technical, policy, freight, and emergency responder issues. Henry emphasized the importance of ensuring equity in CV technology, particularly for disadvantaged communities. He also discussed the Maryland 2-14 project, which detects pedestrians and sends alerts to vehicles, and the implementation of roadside units (RSUs) along US-1. Lastly, Henry touched on using CV data for traffic signal operations, truck parking availability, and the study of market penetration for fiber optic infrastructure in future projects.

Fiber Optic Infrastructure Updates and FCC Process:
The meeting began with discussing the project's fiber optic infrastructure and the need for further input. JD Schneeberger (JPO) provided updates on the B to X Accelerator program and its awarded grants. He mentioned the available technical assistance resources and the ongoing data call for additional responses. JD also discussed the professional capacity-building program and the development of a national B to X deployment map. Justin Anderson (FHWA) highlighted the FCC process, urging agencies to confirm they have vacated the lower 30 MHz spectrum by the upcoming deadline. The session concluded with discussions about best practices for generating geofences for message creation and the need for more guidance in this area.

Connected Work Zone Standard Progress:
Siva Narla (ITE) discussed progress on various projects, including the Connected Work Zone Standard, the Next Gen TMDD, and the ATC cybersecurity standard. He also mentioned updates to NTCIP 12.0.2 for the A/C control system and the publication of the 12th edition of the Trip Gen and Safety Roadmap. Siva invited participants to ask questions and provide updates.

ITS America's Transportation Technology Plans:
Bobby McCurdy, VP of Policy and Advocacy at ITS America, shared the organization's current and future plans, stressing that 2025 is a pivotal year for the transportation technology sector. McCurdy highlighted efforts to update the transportation code, integrate digital infrastructure concepts, and focus on artificial intelligence, privacy, and automated vehicles. He also emphasized the need for a flexible formula program for V2X deployment and improvements in procurement processes at state and local levels. McCurdy mentioned the upcoming ITS America World Congress in Atlanta and the organization's work on privacy and automated vehicle policies.

Member Activity Updates:

ConOps Walkthrough and Vehicle Standards:
Announced an upcoming walkthrough of ConOps and encouraged participation. Noted the need to include specific vehicle features in the public sector standards, such as identity and anonymity certificates. The discussion also covered Alaska's automated vehicle working group strategic plan and postponed updates from Arizona and Caltrans.

Caltrans Project Updates and V2X Developments from other states:
Nathan provided updates on Caltrans' deployment of the CAD manager and new SEMS protocols, as well as a server project for GMS survey stations. Victoria from Georgia shared progress on RSU deployments and V2X developments, including plans for a 10-year V2X strategy. Other updates came from Michigan, Minnesota, Pennsylvania, and Texas, covering topics such as video analytics, federal grants, V2X data exchange platforms, and challenges in coordinating freight corridors.

Transport Canada Cybersecurity Initiatives & Utah RSUs:
Matin from Transport Canada discussed cybersecurity initiatives at their Innovation Center, including the development of a self-assessment tool, collaboration with the Canadian Center for Cybersecurity, and preparations for connected and automated vehicle deployment. Blaine Leonard highlighted Utah's progress with RSUs and equipped vehicles, exploring the use of lidar for pedestrian detection.

Virginia Connected Corridors Project Update:
Noah Goodall provided an update on Virginia's Connected Corridors project, mentioning the deployment of RSUs and the plans for a smart error board pilot phase. The project is also updating its strategic plan and expanding the CAV program. Marisa presented progress on the map tool and CCS compiler, emphasizing its role in providing information on existing laws and policies.

Interactive Map Tool Development:
Marisa Migliore (FHWA) discussed the interactive map tool for creating connected vehicle map messages, noting its benefits and challenges with message accuracy and labor. There were discussions about transitioning the tool to an open-source platform and the costs of hosting it.

Budget Report and Map Guidance:
Dean Deeter led a discussion on the budget report and the map guidance document, which outlines how to create map messages for connected vehicle applications. Kyle Garrett provided an overview of the map validation process, and the group discussed the importance of supporting new messages and planning for the transition from map messages to RGA.