

LESSONS LEARNED FROM COMMUNITY CAV PROJECTS – AND WHAT'S NEXT?

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Connected Autonomous Vehicle Projects in Prince George's County

- Documentation proven to be of the utmost importance – both the internal agency's documentation regarding the project, as well as the information that is provided by the vendor.
- With the technology changing so often, there are instances where we may have several different versions of a CAV solution in testing at one time: range from different firmware, different hardware, and different capabilities.
- While important to have lead technician on the project for continuity, if that individual is the only member that harbors all knowledge, it can seriously hinder communication between the vendor and organization if they are unavailable.



LESSONS LEARNED FROM COMMUNITY CAV PROJECTS

VEHICLE-TO-INFRASTRUCTURE (V2I)

- One of largest lessons learned is that to deploy CAV technology at this time, you have to be cognizant that you are on the bleeding edge of this technology at the moment.
- There are times when in the middle of the deployment we have had to upgrade the firmware on the fly and even at times downgrade firmware on a particular device to ensure proper communication between the various components.
- Other times it seems that our technicians and the vendor's support team are learning the quirks or nuances of the product. What works in the lab environment may not work in a practical deployment in a real-world environment.



LESSONS LEARNED FROM COMMUNITY CAV PROJECTS

- Ownership and storage of data: Depending on the vendor there is a lot of variance on access to historical data and ownership of the data.
- While one vendor will provide us with years of historical data, others will either not store the data or bar us from seeing it all together, citing "industry secrets." This has hindered some of our efforts to leverage historical and real-time data to gain a higher level of understanding of the effectiveness of our traffic system.



Managing expectations of shareholders:

- One thing of note when considering deploying a CAV project would be to effectively manage expectations.
- This applies to not only the Agency's expectation of the deployment but also the expectations of shareholders.
- What I mean by that is managing expectations about product capabilities, deployment timelines, fiscal flexibility, and shareholder adoption.

