

CAT Coalition AV Infrastructure-Industry Working Group Quarterly Meeting

August 20, 2020

2:00-3:30 pm (Eastern)

Today's Agenda

- Welcome and Introductions
- Ongoing Commitment to Outreach and Knowledge Transfer
- Quick Update from Focus Area WG: IOO-OEM Forum
- Partner Reports: USDOT, ITS America, ITE, AASHTO, and Other Partner Organizations
- Challenges and Opportunities in Automated Driving
- Institute of Automated Mobility's AV Safety Assessment
- Next WG Meeting and Adjourn

AV I-I Working Group Introduction

- The role of this Working Group is to:
 - Support pre-competitive industry research that will advance infrastructure development and maintenance
 - Connect IOOs with industry
 - Support the natural evolution of infrastructure to accelerate CAVs
 - Clarify terms, definitions and target audiences
- Last meeting agenda recap:
 - Working Group Activities and Work Plan
 - AV Deployment Scan Findings, Takeaways, and Next Steps
 - FHWA National Roadway Integration of ADS Concept of Operations

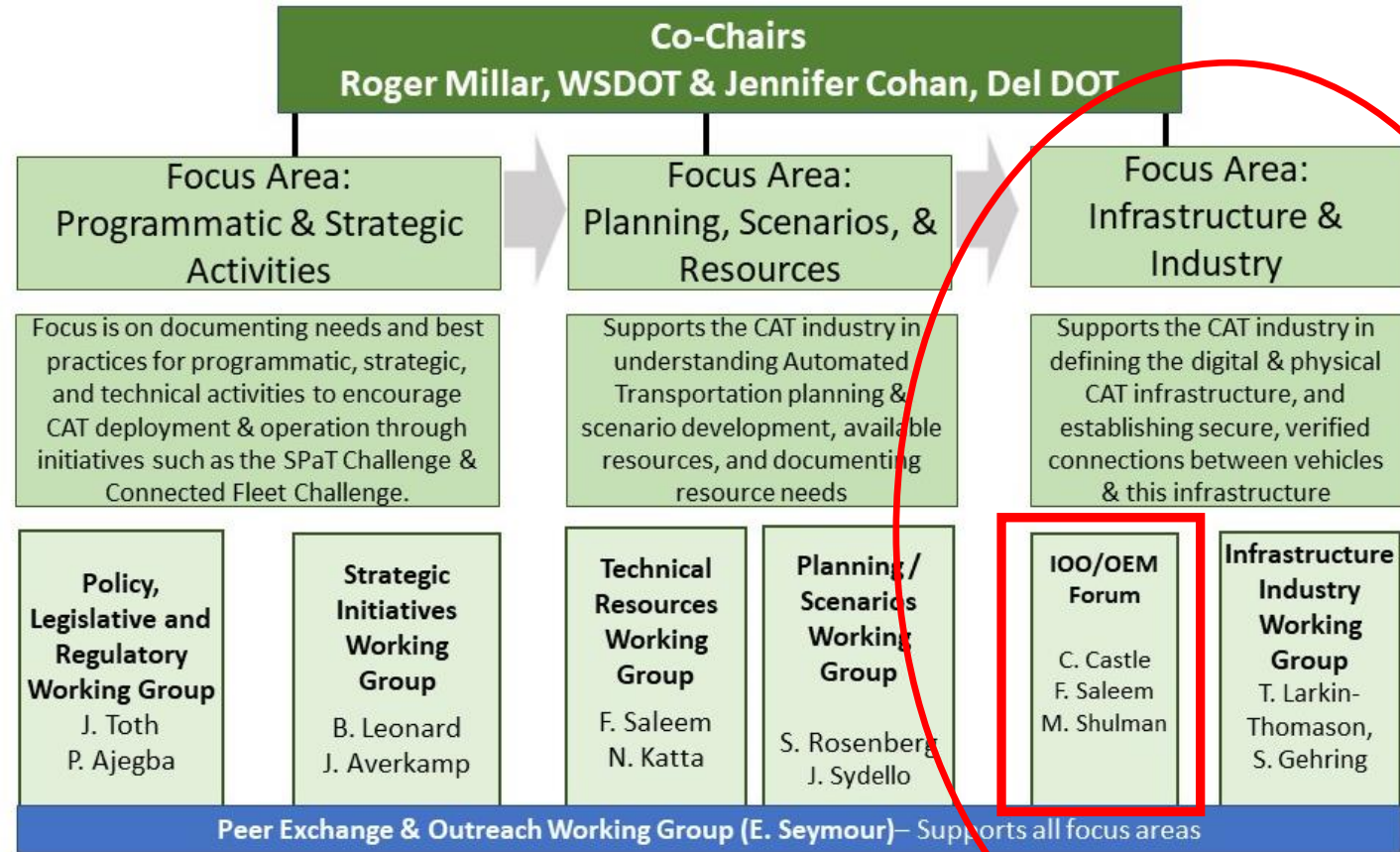
Ongoing Commitment to Outreach & Knowledge Transfer

- Suggestions from WG Members on Ways to Enhance Impact:
 - Proposed new WG Members
 - Communications with/involvement in other initiatives outside the CAT Coalition
 - Knowledge resources to include on CAT Coalition website

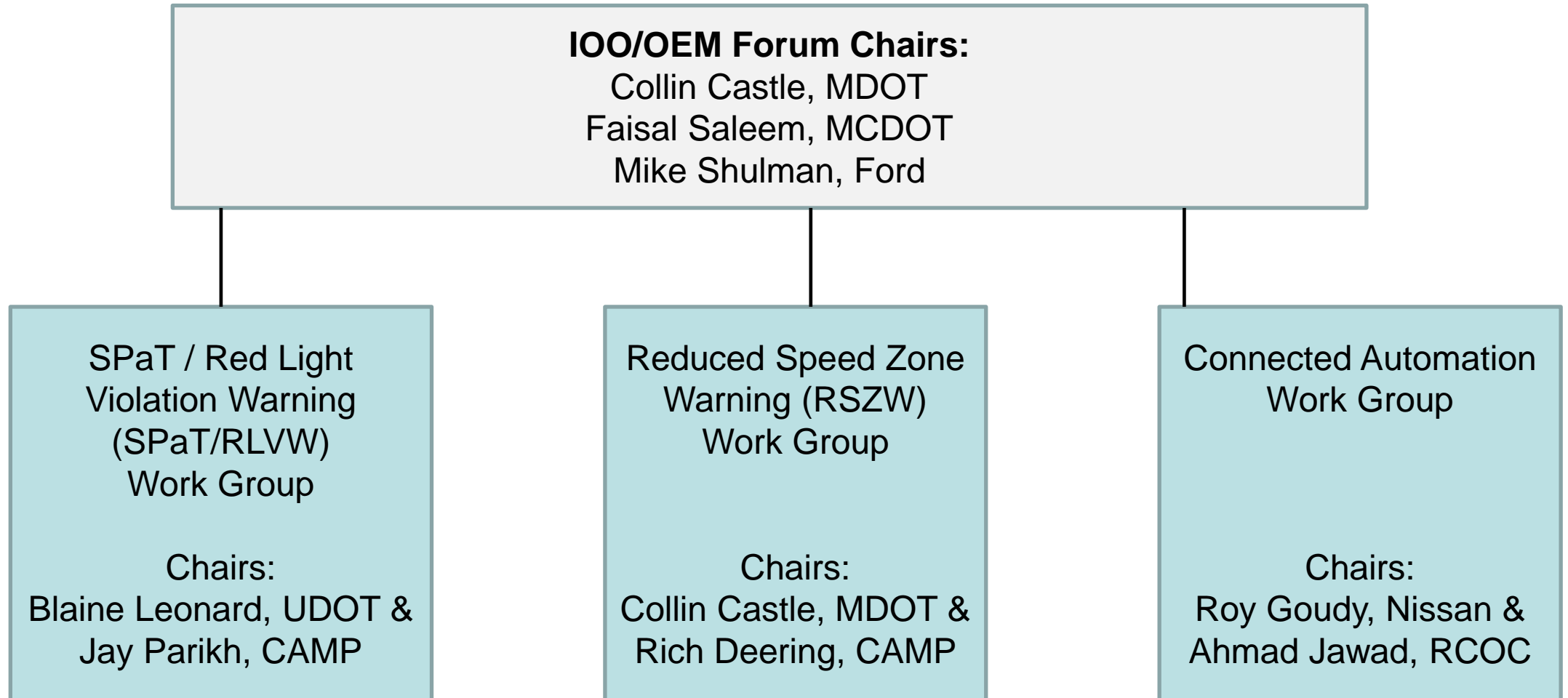
Quick Update from Focus Area WG: IOO-OEM Forum

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Infrastructure & Industry Focus Area

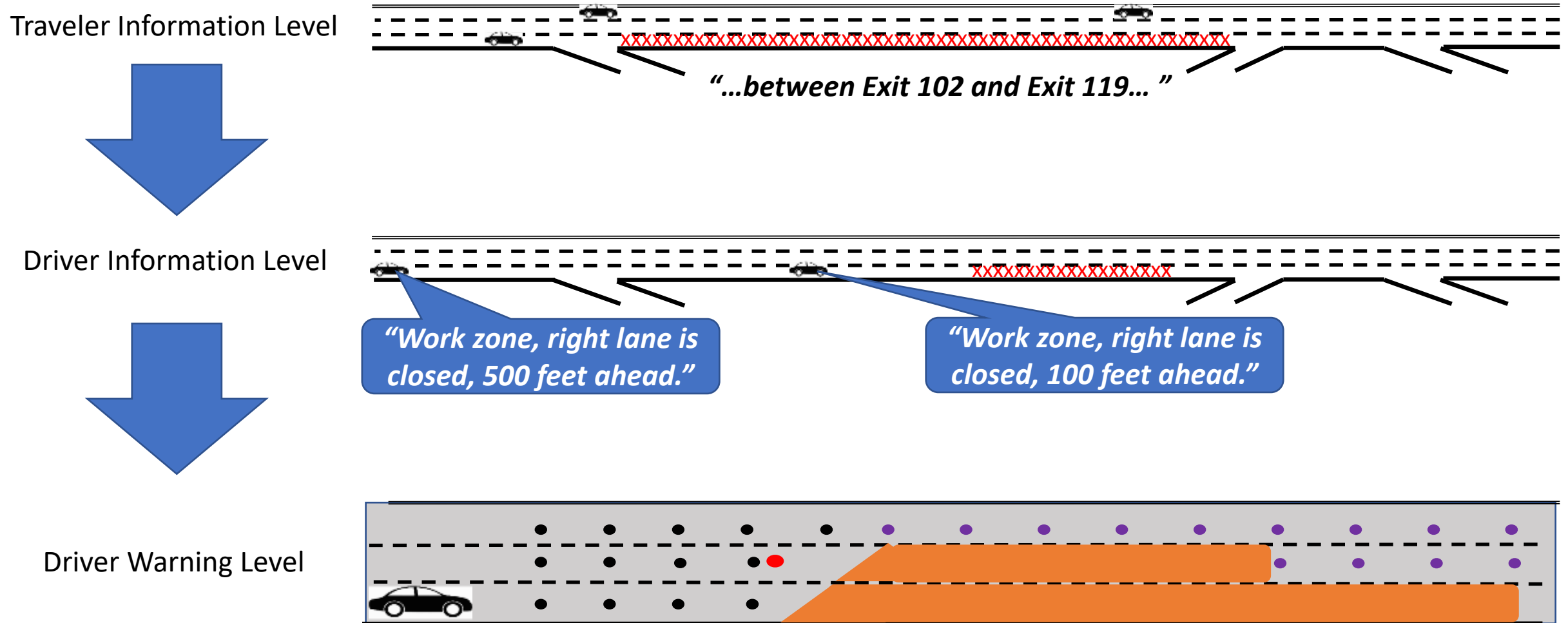


IOO/OEM Forum



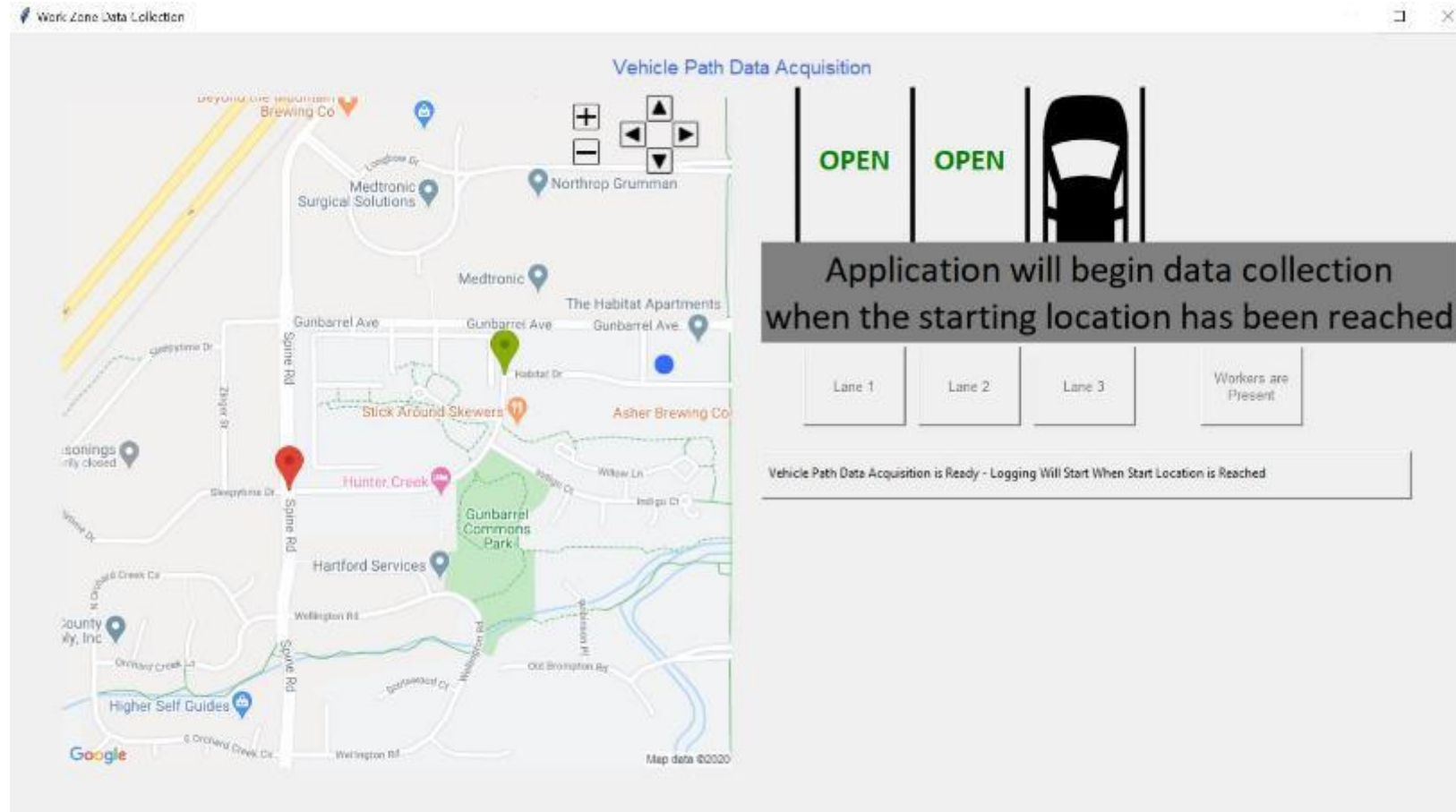
Connected Work Zones

The Migration towards CAT Ready WZ Data – Collin Castle, Michigan DOT



Connected Work Zones

- Work Zone information (e.g. details describing lane closures, reduced speeds, workers presence) is one data element that vehicles cannot collect autonomously – AV Developers looking to IOOs to provide
- Many IOOs intend to migrate beyond Traveler Information data towards more accurate and timelier “CAT Ready Work Zone Data”
 - FHWA Work Zone Data Exchange (WZDx) Initiative
- ***IOOs need a better understanding of “CAT Ready Work Zone Data” :***
 - What is required?
 - How difficult is it to create and update the data?
 - What are the likely costs of creating the data?
 - What technical resources will be required to create the data?
- The Work Zone Data Collection (WZDC) Tool - help IOOs create the map data.
 - **This tool is an FHWA product**



Field Data Collection Tool (Persona: Work Zone Manager)

- User creates basic WZ map configuration
- Field vehicle receives information (via cloud, via RSU)
- Download published configuration files
- Automatically detect GPS device
- Dynamically generate GUI for number of lanes and which lane is the driven lane

Our request to members:

- **Use this tool to learn about Connected Work Zones**
 - Gain an understanding of the user interface, data needs
 - Gain an understanding of the WZDx & RSM generators
- **Test this tool on various work zone configurations**
 - Let us know which work zones are well supported
 - Let us know which work zones do not work well with the tool
- **Share your feedback with us**
 - We circulated a brief document outlining the request to share information

WZDC Tool

Software tool website

- <https://neaeraconsulting.com/V2x> Home

GitHub site:

- <https://github.com/TonyEnglish/V2X-manual-data-collection>

Full end to end test video [here](#)

Partner Reports

US DOT, ITS America, ITE, AASHTO, and Other Partner Organizations



Challenges and Opportunities in Automated Driving

John Leonard

Institute of Automated Mobility's AV Safety Assessment

Marissa Walker, Greg Leeming, and Jeff Wishart

Action Items & Next Steps

Next Meetings

AV Infrastructure-Industry WG

- October 29 2:00-3:30 pm (Eastern)
- December 17 3:00-4:30 pm (Eastern)