Symposium 2021Breakout Session:

B103-Driving AV Data Exchange between Public and Private Sectors

Agenda:

Breakout Overview and Schedule

Focus One: Supporting First Responders in an AV world

First Responders - Understanding the data needs of first responders.

Moderator: Robert Heilman, Director, Highly Automated Systems Safety Center of Excellence (HASS COE), USDOT OST-R

Panelists:

1. Lt. Chris Kinn, Ohio State Highway Patrol, Ohio
2. Andrea Bill, Traffic Safety Engineering Research Program Director, University of WI, Madison
3. Amy Chu, Director, Automated Vehicle Safety Consortium

Working Groups:

Room 1 Next Generation EDR (Event Data Recorder) – hosted by Robert Heilman
Room 2 Facilitating OEM/First Responder dialogue – hosted by Lt. Chris Kinn

BREAK until 2:30 pm ET

Focus Two: Public use and access to AV data exchange

Panel 1: Work Zone Data and AVs

Moderator:

Mahsa Ettefagh, Booz Allen Hamilton

Panelists:

4. Skylar Knickerbocker, Iowa State University's Institute for Transportation
5. Curtis Hay, General Motors
6. Nate Deshmukh-Towery, USDOT Volpe National Center

Highway work zones are hazardous both for motorists and for workers. The Work Zone Data Exchange (WZDx) Specification project aims to get data on work zones into vehicles to help automated driving systems (ADS) and human drivers navigate more safely. A specification can allow infrastructure owners and operators (IOOs) to make harmonized work zone data available for third party use.

Part 2: Data Sharing Using the Mobility Data Specification in Los Angeles

Moderator:

Daniela Bremmer, Cooperative Automated Transportation (CAT) Development Manager, Washington State Department of Transportation

Panelists:

7. Pamela Lee, City of Los Angeles Department of Transportation, Data Privacy Policy Manager
8. Jascha Franklin-Hodge, Open Mobility Foundation, Executive Director
9. Josh Johnson, Spin, Public Policy Manager

The City of Los Angeles' Dockless Mobility Program uses the Mobility Data Specification (MDS) to receive data notifications and share policy regulation with the private companies that provide dockless mobility services throughout the City. Los Angeles uses MDS, a set of open source APIs, to provide two-way communication between LADOT and private company providers in a standardized format to ensure safety and efficiency for all users of the road. LADOT, The Open Mobility Foundation,

and Spin will unpack how MDS and data sharing is key to Los Angeles' Dockless Mobility Program that informs both current policy and regulation. LADOT's experiences using MDS will provide the foundation for future policy and regulations around future automated mobility technologies and services.

Working Groups:
Room 3 Workzone Data – hosted by Mahsa Ettefagh
Room 4 City Planning – hosted by Daniela Bremmer

Session Description

This session explores some facets of data sharing scenarios between the public and private sectors to advance automated transportation and shared mobility. In the first session, participants will hear perspectives on the needs of first responders in the US. The audience will then break out into groups to discuss topics related to the presentations. In the second part of the session, participants will hear from federal and city officials about successful datasharing approaches in the context of work zones and mobility planning including LA's Dockless Mobility Program. The audience will then break out into groups to discuss topics related to the presentations. The goal is to explore a multitude of ways that data can be shared between entities.

Goals/Objectives/Outputs

1. Foster meaningful discussion and exploration of data sharing opportunities between the private and public sectors
2. Explore case study/examples of actual data sharing, including US/non-US examples
3. Encourage active participation by all participants and apply voting and feedback tools
4. Publish deliverables:
    a. identified research questions and research needs
    b. policy gaps
    c. suggest movements towards a research roadmap
5. Publish Session proceedings within ACP30's workgroup on Data Exchange between Public and Private Sectors

Session Contact/Organizers:

- Cynthia Jones, Drive Ohio
- Daniela Bremmer, Cooperative Automated Transportation (CAT) Development Manager, Washington State Department of Transportation
- Randy Butler, Senior Project Manager, CDM Smith
- David Chen, Highly Automated System Senior Engineer/Program Analyst, FAA for HASS COE
- Alan Clelland, ITS/CV Leader, DKS Associates
- Mahsa Ettefagh, Associate, Booz Allen Hamilton
- Michael Fergus, Program Manager, International Association of Chiefs of Police
- Aleksandr Grinshpun, Highly Automated System Senior Engineer/Program Analyst, MARAD for HASS COE
- Stephanie Harrell, Social/Clinical Research Assistant, UNC Highway Safety Research Center
- Robert Heilman, Director, Highly Automated Systems Safety Center of Excellence (HASS COE), USDOT OST-R
- Sandra Larson, Transportation Innovation Strategies Leader, Stanley Consultants

- Alan Rao, Highly Automated System Senior Engineer/Program Analyst, Volpe for HASS COE
- Roger Ryder, Highly Automated System Senior Engineer/Program Analyst, FHWA for HASS COE
- Michael Sheffield, Transportation Analyst, Wall Consultant Group

TRB Sponsor/Partner Committees:

- ACP30 Vehicle-Highway Automation
- ACP15 ITS
- AJL40 Emerging Technology Law
- AJE35 Research Innovation Implementation Management
- AJE70 Data for Decision Making