TECHNICAL MEMORANDUM

TxDOT IAC – Technical Support to the CAV Task Force

DATE: November 12, 2021

TO: Zeke Reyna, TxDOT
Strategic Research Analyst, CAV

COPY TO: TTI_Reports@tti.tamu.edu
Tim Hein, Research Development Office, TTI
Ed Seymour, Executive Associate Agency Director, TTI
Robert Brydia, Senior Research Scientist, TTI

FROM: Beverly Kuhn Research Supervisor
Senior Research Engineer, Texas A&M Transportation Institute

RE: Licensing and Registration Subcommittee
October 18, 2021, Meeting Notes

Attendees:

Alison Pascale	Audi
Allan Rutter	Texas A&M Transportation Institute
Beverly Kuhn	Texas A&M Transportation Institute
Blake Calvert	Texas Department of Transportation
Brian Moen	City of Frisco
Brittney Gick	Texas A&M Transportation Institute
Darren Anderson	Texas Department of Transportation
Ed Seymour	Texas A&M Transportation Institute
Janiece Williams	General Motors
Jason JonMichael	City of Austin
Jordan (Alex) Payson	City of Austin
Marcelle Jones	Stantec
Monika Darwish	Embark

Rama Dhanikonda	City of Richardson
Robert Brydia	Texas A&M Transportation Institute
Sam Dreiman	ARGO AI
Servando Esparza	TechNet
Shelly Mellott - Chair	TxDMV
Sly Majid	Argo AI
Zeke Renya	Texas Department of Transportation

I. Opening Comments/Roll Call – Zeke Reyna, TxDOT
- Welcome to all subcommittee members
- Roll call of members and attendees
- Introductions of meeting facilitators

II. Chair Welcoming Statement – Shelly Mellott, Texas Department of Motor Vehicles
- Welcome and thank you for attending
- We have much to cover in a short amount of time, but we welcome all participation and comments

III. Preview of Website Changes – TTI Team
- We are working on improving the CAV Task Force website (currently in staging) to be made public within next two weeks.
- We've taken some of the products from last year, such as the Glossary from Terminology paper. It is now a completely interactive online tool.
  - TxDOT to do outreach to other states and entities to make sure awareness of this information and come to agreement about best definitions and verbiage.
- Revamped News links to display top ten, most recent. Updated weekly.
- Links to each subcommittee at bottom of webpage. Subcommittee pages have been updated with graphics and complete set of documents (meeting notes and products)
- The Deployment Map has been updated. We have listing that is being validated via websites and press releases.
  - This is a key component of the website, but we depend on your interaction for that.
    - We have chosen to display with pinpoints rather than sections of roadway.
    - Click on a pinpoint and more information will display.
    - If you would like your deployment added, please submit city and brief paragraph description via email to Zeke Reyna and/or Bob Brydia so we can keep the listing as accurate as possible.
- We would love to have your feedback to make sure we are capturing all information available on this website.

IV. Feedback Exercise on Subcommittee Deliverables – TTI Team
- Please refer to read ahead material sent via email, accessible on the Mural Board.

- This document was laid out so that all participants could see:
    - What we are going to do
    - How we are going to do it
    - Who we are going to talk to
    - The subjects we want to talk about
- Today's meeting is important, as it sets the framework for everything we are doing now through the end of the calendar year.
- Process to Product Infographic
  FOCUS OF PLAN: The focus of this plan will highlight strategies and recommendations to address what users need to understand about automated vehicles, as it relates to the vehicle operations and technology for on-street vehicles.
  IDENTIFY KEY PLAYERS
    - Automated vehicles is broad wording. Introduce granularity as we go through this.
    - Dealers are stakeholders
  DEVELOP QUESTIONS TO ASK
    - Auto dealers - What do they need to know and how do we interact with them and them to the public
    - Consumer acceptance of technology depends on their auto dealer.
    - Current ADAS is level 1 / 2. Consumers can't access/own 4/5 and we should distinguish between those levels
    - Consumer vs. fleet ownership models
    - Ownership vs. fleet
    - What questions might auto dealers have from a seller's perspective?
  REVIEW AVAILABLE INFORMATION
    - SAE updated levels of automation - https://www.sae.org/blog/sae-j3016-update
    - Be aware of what NHTSA is going to separate ADAS and ADS and reporting requirements
    - PAVE
    - One-stop shopping place for understanding how to operate in the state.
        - CAVTF Website
  PROVIDE EDUCATION PLAN
    - Focus on end user to help them navigate the data
    - Examine options for how to experience autonomy
        - Fact sheets
        - PAVE doing some of this.
        - Interactive
  DELIVERABLE PRODUCT
    - Accessible and understandable front piece. Address issues the subcommittee wants us to include.
  QUESTIONS TO ASK
    - What are you currently doing to educate on the technologies? (Ride-hailing, Dealers, etc.)
    - Develop and share full question list to folks beforehand.
    - Some of these questions deployers may not have considered these yet.

- What's the expectation for fleet turnover from the dealer perspective?
- Examine what features are standard and which ones are upgrades (may be ever-changing and by manufacturer--might be a snapshot in time)
    - How does your company communicate changes to the technology and ensure that consumers know the limits?
        - Advise companies not to provide proprietary information if they're not comfortable with it
        - Do we need to check with OGC about FOIA?
        - Develop language for question list
    - https://advocacy.consumerreports.org/wp-content/uploads/2019/11/CR-ADAS-Common-Naming-One-pager.pdf
- Talk to insurance companies? Are ADAS systems starting to show changes in accident rates?
    - What features are most popular?
    - IIHS and consumer Reports

REVIEW OF PUBLIC INFORMATION
- Clearing up the Confusion (by Consumer Reports - endorsed by many).

ORGANIZATIONS TO CONTACT
- Should M/D include companies that are hauling freight in testing but not at same deployment levels as others?
    - Level 4 developers
    - Level 2 developers
- Self-Driving Coalition
- Auto Innovators - trade association that might be able to speak for industry on ADAS
- Is there value in adding MPOs and local agencies into the conversation?

V. Next Steps – Shelly Mellott / Zeke Reyna
- Thanks to everyone for sharing and input. Great Information
- We will take this information, dive in, and start engaging
- Time frame to bring information to this subcommittee for dialogue should be 4-6 weeks but will be determined in process
- If you have information you want included on the CAVTF website, please let us know ASAP as it will be going live soon.

VI. Closing Remarks – Shelly Mellott
- Thanks to everyone for great input