

MEETING NOTES

Iowa Advisory Council on Automated Transportation (ATC)

Public Safety & Enforcement Subcommittee Meeting

Friday, March 28, 2025

2:30 – 3:30 p.m. CT

Action Items:

- Inform Cheryl about your dietary needs if you plan to attend the ATC meeting on April 29th at the Iowa Culinary Institute at DMACC.
- Send AV deployment related questions or concerns to Matt or Cheryl prior to April 20th.

Attendance – 21 attendees

- Colonel Nathan Fulk – Department of Public Safety, Iowa State Patrol, Public Safety & Enforcement Subcommittee Chair
- Catherine Lucas – Department of Public Safety
- Michael Current - Department of Public Safety, Iowa State Patrol
- Jonathon Wood – Iowa State University
- Matt Burkey – Iowa Bicycle Coalition
- Paul Steier – American Association of Motor Vehicle Administrators
- Skylar Knickerbocker, Neak Hawkins – InTrans at Iowa State University
- Omar Ahmad, Daniel McGehee, and Cheryl Roe – Driving Safety Research Institute (DSRI), University of Iowa
- Deborah Freeman, Larry Grant, Josh Halterman, Ashley Hochberger, Alexander Jansen, Renee Jerman, Hossein Naraghi, Steven Stonehocker, Jan Laaser-Webb, Matt Miller – Iowa DOT

1. Welcome and introductions – Colonel Nathan Fulk, Public Safety & Enforcement Subcommittee Chair

- a. Col. Fulk welcomed everyone and briefed the group on the meeting guidelines and provided an overview of the agenda.
- b. The meeting began with a subcommittee update. The last virtual meeting on September 25, 2024, included an update on the Iowa State Patrol's involvement with the AAMVA AV subcommittee, which collaborates with various stakeholders to share information on AV development, design, testing, use, and regulations. Lt. Mike Current represents the Iowa State Patrol. Cheryl Roe shared insights from a University of Iowa project on crashes involving vehicles with Advanced Driver Assistance Systems (ADAS). She also discussed a funded project with Colorado DOT and Colorado State University exploring ADAS on public transits, and mentioned that two additional proposals were not accepted. Matt Miller updated the committee on plans for a company to start AV testing in Iowa, the Iowa DOT automated transportation webpage, and summarized meetings with Texas DOT, City of Austin, and the Ministry of Ontario regarding AV deployments and experiences with various companies.

2. Subcommittee Updates – Colonel Nathan Fulk

- a. Col. Fulk shared an Insurance Institute for Highway Safety (IIHS) compiled list of states with laws related to automated vehicles (as of March 2025). The list included states with AV provisions for deployment, testing, vehicle-specific regulations, operator licensing and requirements, and liability insurance. Unfortunately, the link is no longer active.

3. AV Deployment Working Group Update – Matt Miller

- a. The council established an AV deployment Working Group in November 2024 to support and oversee AV deployment efforts. The group includes leadership from the Des Moines Metro Planning Organization, Iowa State Patrol, University of Iowa, Iowa Economic Development Authority, Iowa DOT Motor Vehicle Department, Iowa DOT Outreach and Development, and members from an AV company. The working group held two meetings, sharing information while the AV company maintained discretion over proprietary details. Meetings will continue after the ATC meeting in April.
- b. During the meetings, the AV company responded to questions related to their safety case, their deployment process, and their first responder interaction plans. The group discussed the need for clear communication plans that can be shared with stakeholders to ensure a unified message.
- c. The Iowa DOT facilitated first responder and city manager AV first responder education training sessions in collaboration with Iowa State Patrol, Warren, Polk, and Dallas County Sheriff's Offices, scheduled for April 22-24. Additional invitees include Iowa DOT traffic operations, traffic management center leadership, highway helper personnel, District 1 engineer office leadership, highway maintenance supervisors, and DSRI.
- d. The group is awaiting confirmation from AV company on routes, community outreach, and additional law enforcement training. This initial training is the first of many, with safety drivers planned for months, indicating a continual effort between the AV company and the communities.
- e. Col. Fulk provided additional information on the company's training framework, which has been implemented elsewhere and follows a multi-phase approach. The training includes classroom sessions and on-site vehicle demonstrations for first responders. In Iowa, training sessions with up to 50 participants per session, including law enforcement, fire dispatch supervision, and DOT maintenance supervisors.
- f. The deployment plan, previously implemented elsewhere, involves four phases.
 - Phase One: A driver operates the vehicle on the route for several months or longer.
 - Phase Two: A driver/operator is behind the wheel while the vehicle is in autonomous mode. The operator can take control as needed
 - Phase Three: No operator in the vehicle, with a chaser lead vehicle for safety.
 - Phase Four: Fully autonomous freight operations monitored by a remote supervisor. The report supervisor observes a vehicle and can provide commands to the vehicle as needed.
- g. Col. Fulk shared that the company plans to establish a command and control center to oversee their fleet of vehicles. Training will ensure all stakeholders are prepared for deployment, with the company reporting on interactions with first responders and

maintaining communication with local stakeholders. The company plans to collaborate with transportation authorities and local jurisdictions to map and monitor routes, addressing road construction and weather conditions. Additionally, they have a compliance review process in other communities that includes reporting interactions with first responders, maintaining regular communication with relevant authorities, and referencing information on the transportation authority's website.

- h. Cheryl asked where the command control center would be located. Matt mentioned that they will have staff in Iowa, but the actual location is unknown and can be addressed at the April meeting.

4. Other Updates – Matt Miller & Cheryl Roe

- a. Matt recently attended the [NCRHP Connected and Autonomous Vehicle \(CAV\) State Peer Exchange](#) and the City of Austin AV stakeholder meeting. Both events had AV vehicles from various vendors like Waymo and Tesla. The peer exchange gathered individuals from 40 various states to discuss CAVs and infrastructure. The Austin group is like our ATC. The difference is that they currently have several AV deployments. Matt learned a lot about their deployments and meeting processes.
- b. Matt shared the new Iowa DOT Automated Vehicle webpage, which will go live to the public in April. The key new piece is the Frequently Asked Questions (FAQ) page, compiled from questions asked in Iowa and other FAQs across the country. The page includes questions that are categorized into General Overview, Iowa DOT-Specific Initiatives, Law Enforcement & Public Safety, Registration and Certification, Freight and Agriculture, Technology and Infrastructure, Public Engagement and Privacy, Future of Automated Transportation and Key Legislation & Resources. This list is still in development.
- c. Cheryl Roe shared information about a global database [Autonomous Vehicle \(AV\) Crashes](#) being developed by researchers at the [Transport Research Centre](#) to show AV incidents worldwide. It aims to provide reliable, accessible information on AV collisions to enhance public understanding. The database is continuously updated with data from public sources like the California DMV, reviewed and verified by researchers. Cheryl mentioned that the City of Austin provided data. Errors are corrected when identified, and feedback is welcomed to ensure accuracy. The database is interactive and provides details about each incident.
 - Matt highlighted again that the City of Austin allows the public to report concerns with AVs. This allows for tracking incidents (i.e., AV stopped in an intersection) that need to be shared with the AV companies even when a crash doesn't occur.
- d. Matt shared details about the upcoming ATC meeting that will be held on April 29th from 10:00 am to 1:00 p.m. The AV company will be given about an hour to present and answer questions. A truck will be onsite for viewing and additional questions. A presentation will be provided during lunch.

- If you plan to attend in person, make sure to complete the survey about dietary restrictions. Matt requested that subcommittee members send questions for the AV company to himself or Cheryl in advance.

5. Lifesavers Conference Update – Cheryl Roe

- a. The [Lifesavers Conference](#) program is designed to engage federal, state and local government, law enforcement, public health, injury prevention, advocacy, and non-profit organization professionals in an exchange of ideas, strategies, and programs to reduce preventable injuries and deaths. Cheryl and colleague Michelle Reyes presented a practitioner guide for evaluating and delivering ADAS education.
- b. She attended several sessions in the Vehicle Technologies/Automated Driving Track and highlighted three topics that align the Public Safety and Enforcement subcommittee. One of the workshops, “[First Responder & AV Interactions – Best Practices & Lessons Learned](#)” was recorded.
- c. Darcyne Foldenaur, Director of Automated Vehicle Safety Consortium (AVSC), a program of SAE ITC, presented the “[AVSC Best Practice for First Responder Interactions with Fleet-Managed Driving System-Dedicated Vehicles \(ADS-DVs\)](#),” detailing interactions between first responders and ADS-DVs (SAE levels 4 and 5). She also emphasized the need for a centralized database for first responders to quickly access AV interaction plans.
- d. Matt Holmes, Battalion Chief of the Austin Fire Department, discussed “petting zoos” and “AV Safaris,” scenario-based training at Texas Smart Track that allows first responders to interact with AVs while performing maneuvers that have caused issues in the past. He stressed the importance of a feedback loop for first responders to share their experiences, enabling AV companies to make necessary changes. He also highlighted the need to expand and consistently organize law enforcement interaction plans to include all first responders, ensuring they know how to handle AVs in various situations.
- e. Miguel Acosta from the California DMV shared information about [California's Autonomous Vehicle Deployment Program](#). The program includes [definitions](#), [regulations](#), and [collision](#) and [disengagement](#) reporting requirements. California is working on an AV notice of non-compliance to give police authority to issue citations to AVs, prompting manufacturers to change vehicle behavior.
 - Matt mentioned that in the City of Austin, paper tickets must be signed, which can be problematic if there isn’t an operator. A digital method would be more efficient. He plans to investigate how digital citations could be implemented in Iowa.
 - Cheryl also mentioned that California permits the sale of Level 3 vehicles to consumers. A key requirement is that manufacturers must specify how customers will be trained to operate their Level 3 vehicles. These vehicles offer conditional automation, allowing the vehicle to take control in specific situations, such as traffic jams, by managing steering and speed. However, the

driver will be prompted to take back control when necessary. Currently [DRIVE PILOT](#) by Mercedes-Benz has been approved in California.

6. Austin Meeting Update – *Lt. Michael Current, Iowa State Patrol*

- a. Lt. Current summarized a recent meeting in Austin, highlighting three main points:
Collisions Involving AVs: AVs are obeying traffic laws, such as fully stopping at stop signs, which sometimes leads to rear-end collisions from drivers expecting a rolling stop.
- b. First Responder Incident Plan: There is a need for a comprehensive incident plan from AV companies, with interaction protocols for law enforcement and fire services to be developed by these agencies.
- c. Deployment Delays: There have been delays in AV deployments in other states.

7. Recent & Upcoming Meetings

- a. **Policy & Legislation Subcommittee Meeting – Thursday, March 13, 2025**
- b. **Economic Development & Infrastructure Readiness Joint Subcommittee Meeting – TBD**
- c. **Iowa Advisory Council on Automated Transportation Meeting – Tuesday, April 29, 2024, from 10:00 a.m. – 1:00 p.m.** In-person meeting to be held at the Des Moines Area Community College Culinary Institute. Virtual option will be available.

ATC SUBCOMMITTEE MEETING

Public Safety &
Enforcement Meeting
March 28, 2025

Automated drive

Destination: 50° 43' 50.34" N - 6° 10' 55.294" E
Arrival: 08:55 pm - Distance 783 miles

TCP/IP: 192.56.327.684.1
SYNC: **enabled** | Sensors: **active** | Cameras: **active**

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MEETING AGENDA

1. **Welcome, Introductions, and Subcommittee Update** – Colonel Nathan Fulk, Public Safety & Enforcement Subcommittee Chair
2. **AV Deployment Working Group Update** – Matt Miller, Iowa DOT
3. **AV Deployment Discussion** – Matt Miller, Iowa DOT
4. **Other Updates** – Matt Miller, Iowa DOT
5. **Recent & Upcoming Meetings**
 - a. Policy & Legislation Subcommittee Meeting – Friday, March 28
 - b. Economic Development & Infrastructure Readiness Subcommittee Meeting – TBD
 - c. Iowa Advisory Council on Automate Transportation Meeting – Tuesday, April 29 from 10:00 a.m. – 1:00 p.m., hosted at the [Iowa Culinary Institute at DMACC](#), virtual option available.

WELCOME AND INTRODUCTIONS

Colonel Nathan Fulk—
Public Safety & Enforcement
Subcommittee Chair



PUBLIC SAFETY & ENFORCEMENT SUBCOMMITTEE UPDATES

Colonel Nathan Fulk—
Public Safety & Enforcement Subcommittee Chair



PUBLIC SAFETY & ENFORCEMENT SUBCOMMITTEE UPDATES

Last meeting: September 25, 2024

- AAMVA AV subcommittee
- UI Driving Safety Research Institute update
- Iowa DOT website update
- AV deployment update

PUBLIC SAFETY & ENFORCEMENT SUBCOMMITTEE UPDATES

IIHS List of Autonomous Vehicle Laws

<https://www.iihs.org/topics/advanced-driver-assistance/autonomous-vehicle-laws>

- 37 states have a law/provision
- What type of driving automation on public roads does the law/provision permit?
- Does the driving automation provision...
 - Require and operator to be licensed?
 - Require and operator to be in the vehicle?
 - Require liability insurance?

AV DEPLOYMENT WORKING GROUP UPDATE

Matt Miller – Iowa DOT



AV DEPLOYMENT WORKING GROUP UPDATE

- Group members
 - Iowa DOT
 - Driving Safety Research Institute, University of Iowa
 - Iowa State Patrol
 - Des Moines Area MPO
 - AV company
- Group meetings: 11/14/24 and 01/17/25
- Education sessions
- What's next?



AV DEPLOYMENT DISCUSSION

Matt Miller – Iowa DOT

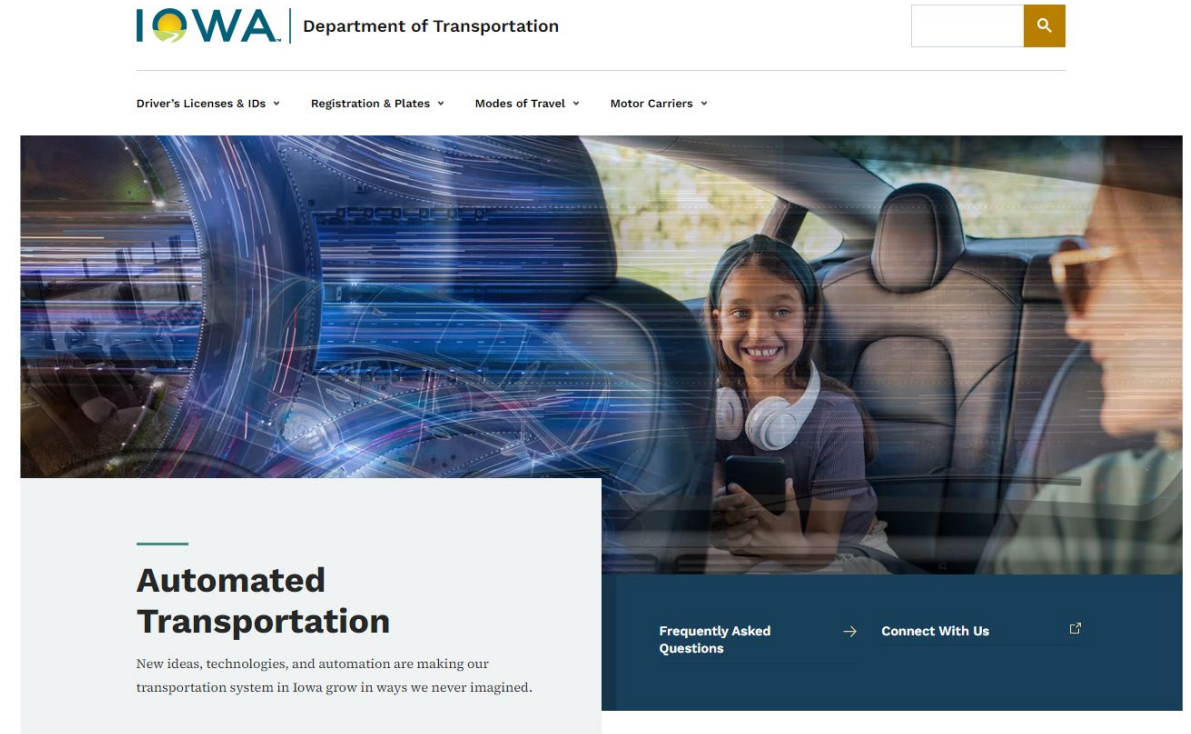


OTHER UPDATES

Matt Miller – Iowa DOT

OTHER UPDATES

- IDOT Automate Transportation [webpage](#) update
- CAV meetings
 - CAV Peer Exchange
 - City of Austin
- [Transport Research Centre Autonomous Vehicle Crashes](#)



LIFESAVERS CONFERENCE

- California
 - [AV Collision Reports webpage](#)
 - AV issued of non-compliance
 - Requirements if selling Level 3 vehicle to consumer
- AVSC Best Practice for First Responder Interactions with Fleet-Managed Automated Driving System-Dedicated Vehicles (ADS-DVs) [AVSC-I-01-2024](#)
 - Framework for best practice
 - Centralized AV database is needed
- Austin Fire Department
 - AV Safari
 - First responder feedback = changes to AV

IOWA ADVISORY COUNCIL ON AUTOMATED TRANSPORTATION

- April 29, 2025, 10:00 a.m. to 1:00 p.m.
- Iowa Culinary Institute at DMACC (virtual available)
- Agenda
 - AV company presentation
 - Q&A
 - Education session summary
 - Lunch
- Please inform Cheryl of your intentions cheryl-roe@uiowa.edu

RECENT & UPCOMING MEETINGS

Policy & Legislation Subcommittee Meeting – Thursday, March 13

Economic Development & Infrastructure Readiness Subcommittee Meeting – TBD

Iowa Advisory Council on Automated Transportation Meeting – Tuesday, April 29 from 10:00 a.m. – 1:00 p.m. *In-person meeting to be held at the Iowa Culinary Institute at DMAACC. Virtual option available.*



THANK YOU