

Governor's Advisory Council on Connected and Automated Vehicles

Meeting Summary

June 15, 2022

9.00-11.30am

Finalizing 2022 Governor's Advisory Council Recommendations

1. **Welcome**

- Co-chair, Phil Magney welcomed council members, ex-officio members, and guests to the council meeting, highlighting the Drive MN event that will be taking place in August and discussed more later in the meeting.
- *Council member attendees:* Nancy Daubenberger, Phil Magney, Damien Riehl, Patrick Weldon, Michael Gorman, Myrna Peterson, Danielle Elkins, Vicky Rizzolo, Ryan Daniel, John Hausladen, Dan Chen, Amber Backhaus, Gina Baas on behalf of Kyle Shelton
- Tara Olds, Deputy Director of CAV-X provided a brief meeting recap of the previous meeting held in March of 2022.

2. **IIJA Notice of Funding Opportunity Update**

- Tara Olds shared information on the upcoming funding opportunities from IIJA
 - <https://www.transportation.gov/bipartisan-infrastructure-law/upcoming-notice-funding-opportunity-announcements-2022>
- SMART Grant Program (Strengthening Mobility and Revolutionizing Transportation) expected to open in September
- We want to proactively identify projects in Minnesota that could be eligible for this funding
 - Funding amount: \$500,000,000
 - Period of Availability: Available until expended
 - Funding Mechanism: Competitive Grant
 - New Program: Yes
 - Recipients: (A) A State; (B) a political subdivision of a State; (C) a Tribal government; (D) a public transit agency or authority; (E) a public toll authority; (F) a metropolitan planning organization; and (G) a group of 2 or more eligible entities described in any
 - Description and Purpose: The Office of the Secretary's Strengthening Mobility and Revolutionizing Transportation Grant program provides supplemental funding grants to rural, midsized, and large communities to conduct demonstration projects focused on advanced smart city or community technologies and systems in a variety of communities to improve transportation efficiency and safety.
 - Eligible Uses: In general, a Strengthening Mobility and Revolutionizing Transportation grant may be used to carry out a project that demonstrates at least one of the following:
 - (i) Coordinate Automation
 - (ii) Connected Vehicles
 - (iii) Intelligent, sensor-based infrastructure
 - (iv) Systems integration
 - (v) Commerce delivery and logistics
 - (vi) Leveraging use of innovative aviation technology

- (vii) Smart grid
 - (viii) Smart technology traffic signals.
 - Next Milestone: : A Notice of Funding Opportunity is expected in the second or third quarter of 2022.
- How does the Council want to be involved with brainstorming and helping identify a project or projects that advance our state’s goals?
 - Working group? Or Just Innovation Alliance Committees – Outreach and Education, Infrastructure?
 - Who is critical to be involved? Local government, tribal nations, MPOs?
- Council comments and ideas
 - Play to our strengths – ice and snow
 - Commercial vehicle deployment in winter
 - City of Minneapolis perspective – signal timing and related technology important
 - Designated area or corridor for CAV testing
 - Suggestion to have a working group to brainstorm ideas
 - Council member volunteers
 - Dan Chen
 - Kyle Shelton
 - Phil Magney
 - Danielle Elkins
 - Question on if there is an equity component to SMART grants
 - CAV-X office will clarify if equity included in the grant
 - Opportunities around freight – demonstration related to last mile or even last 100 yards for freight
 - Smart drive system testing for light rail trails to communicate with intersection control and use automatic braking

3. Draft Recommendations Review

- Thomas Johnson-Kaiser, MnDOT CAV-X, provided an overview of the history, purpose, and process for the 2022 Governor’s Advisory Council Recommendations
 - Recommendations will be included in the 2022 Executive Report that will be shared with the Governor and acted upon by the next Council
 - A Council member working group developed the draft recommendations. The working group included Bret Weiss, Kyle Shelton, Phil Magney, Damien Riehl, and Commissioner Daubenberger.
- Damien Riehl led a review of the draft recommendations
 - Safe Testing of Connected and Automated Vehicles
 - Council comments
 - Rep. Elkins led a bill last session to authorize testing but did not proceed. He is happy to propose a bill again
 - Is there is a quicker path forward as there are more states doing testing we can learn from?
 - This question is a great example of the questions that would be investigated as part of the recommendation
 - Transportation Infrastructure
 - Council comments
 - Would crash data be part of this conversation? Looking at what is unique about areas with high crashes.
 - Include technology infrastructure as part of this category

- Assessment of infrastructure is vague by design to allow for various ways to assess infrastructure readiness
 - Drive MN is an example of infrastructure assessment
- Vehicle Registration, Driver Training and Licensing
 - Council comments
 - Safety Innovation Alliance Committee has started looking at how to integrate automation into driver training
 - Support for creating automation designation for new vehicles and incorporating CAV into driver training
 - Automation not currently included in driver training
- Accessibility and Equity
 - Council comments
 - How would we expose underrepresented and historically excluded populations?
 - Would be targeted effort of education and outreach
- Revenue
 - Council comments
 - None
- Traffic Regulations and Safety
 - Council comments
 - None
- Economic Development, Business Opportunity, and Workforce Preparation
 - Council comments
 - None
- Insurance and Liability
 - Council comments
 - Clarify second recommendation to investigate establishing a minimum financial liability coverage
- Cyber Security and Data Privacy and Data Governance
 - Council comments
 - Add standardization to second recommendation
 - Ensure citizens are aware of data implications. What does it mean for personal data and personal agreement and not having government overreach?
 - This is an area of focus for Rep. Elkins and will be proposing legislation on the topic
 - The Data and Connectivity committee has had an overview of all OEMs and their data collection. The committee would welcome discussions with OEMs. OEMs need to be bought in for these recommendations to work.
 - Request to share the last two Data and Connectivity committee presentations with the Advisory Council
 - Data sharing is happening largely as private transactions currently. Questions exist around who owns the data and who has the right to sell it.
- Land Use and Planning
 - Council comments
 - None
- Public Engagement and Education

- Council comments
 - None
 - Leadership and Collaboration
 - Council comments
 - Support from private sector very important for local and state government to continue to advance the work and apply for federal funding
 - Tara Olds overviewed the next steps for the recommendations and a draft outline for the 2022 Executive Report
 - Final comments from Council due by July 1
 - Working group to finalize recommendations in July
 - Draft Executive Report written in August
 - Intro
 - CAV background basics - importance to MN
 - Council Purpose/Goals, etc.
 - Summary of 4 years of Governor’s Advisory Council work
 - Update on 2018 recommendations
 - Provide context for the recommendations and high-level overview of summary of assessment
 - 2022 recommendations
 - Fewer, clear deliverables with measurable actions and identified leads/owners
 - Future of Governor’s Advisory Council
 - Council to review and approve Executive Report in September
 - Executive Report submitted to Governor in October

4. Drive MN Update

- Tara Olds, Gina Baas and Phil Magney presented an update on the upcoming Drive MN event taking place August 15 – 18
 - Purpose of the event
 - Understand CAV infrastructure and policy readiness
 - Engage with policy makers and transportation professionals around the state
 - Three elements of the project
 - Drive
 - Four days of driving covering over 1000 miles of a variety of roadways
 - Events
 - Event with stakeholders at each of the eight stops. Targeted audience is policy makers and transportation professionals
 - Report
 - Summarize findings and observations
 - Action items and next steps
 - AV readiness survey will evaluate the compatibility of roadways against emerging ADAS/AD technologies
 - The process includes data collection, post processing and producing outputs and insights
 - Two level 2 automated vehicles will perform the drive
 - Common challenge areas
 - On-ramps and off-ramps
 - Non-traditional intersections (roundabouts, RCIs)
 - Ghost markings

- Work zones
- Vehicles will stop at eight cities throughout the state with a demonstration and engagement event at each city

Demonstration Locations (Tentative)

Day 1

- Drive St. Louis Park to St. Cloud
- **Demonstration 1 in St. Cloud (10-11am) at MnDOT District 3 Headquarters and Training Center**
- Drive St. Cloud to Duluth
- **Demonstration 2 in Duluth (4-5pm) at MnDOT District 1 Headquarters**
- Drive Duluth to Bemidji

Day 2

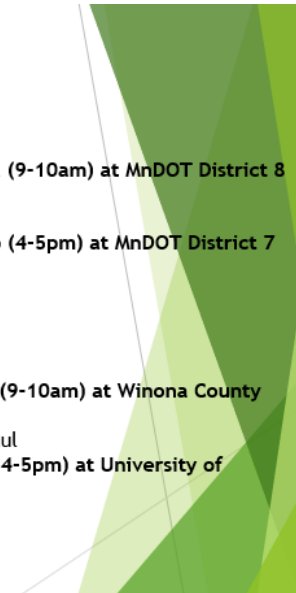
- **Demonstration 3 in Bemidji (9-10am) at MnDOT District 2 Headquarters**
- Drive Bemidji to Moorhead
- **Demonstration 4 in Moorhead (4-5pm) at Clay County Highway Department**
- Drive Moorhead to Marshall

Day 3

- **Demonstration 5 in Marshall (9-10am) at MnDOT District 8 Office**
- Drive Marshall to Mankato
- **Demonstration 6 in Mankato (4-5pm) at MnDOT District 7 Headquarters**
- Drive Mankato to Winona

Day 4

- **Demonstration 7 in Winona (9-10am) at Winona County Highway Department**
- Drive Winona to UofM St Paul
- **Demonstration 8 in St Paul (4-5pm) at University of Minnesota**



- Events target audience is elected officials and transportation professionals
 - Suggestion to include transit providers and unions that represent transportation workers to invite list
- Council questions and comments
 - Will data being collected apply to a class 8 commercial truck?
 - Commercial trucks are using the same technologies as the research vehicles that will be used
 - How are automated freight vehicles able to operate in the southwest considering challenges presented?
 - Suggestion to invite representative from TXDOT to provide an update to the Council
 - Vehicles still have safety drivers
 - Both research vehicles will be hybrid electric vehicles

5. CAV Website Update and Discussion

- Thomas Johnson-Kaiser presented a mockup for a redesigned CAV website
 - MnDOT has been working with HDR on redesigning the CAV website for the last few months
 - The redesign is needed due to the current website being unorganized, trying to meet too many audiences at once, and being challenging for people to find the needed information
 - The mockup includes a landing page with basic MnDOT CAV-X information and portals to the two sub-sites, one for the public and one for partners
 - Council comments
 - The website could be more engaging for the public who are early adopters and people looking for information on CAV
 - Planning to have the new website launched in late summer/early fall

6. CAV-X Project Updates

- Tara Olds gave an overview of how CAV-X selects projects, how they are connected to Advisory Council goals and priorities and an update on a few projects
 - All CAV-X project need to follow limitations of Trunk Highways, meaning there needs to be Trunk Highway benefits
 - Program funding opportunities include
 - CAV Challenge
 - Innovative Ideas
 - ITS District Solicitation
 - Direct Select – often from Innovation Alliance initiatives
 - MnDOT Goals
 - Customer Trust
 - Operational Excellence
 - Workforce Excellence
 - CAV-X Program Goals – CAV DOT focused
 - Partnerships and Collaboration
 - Research, development, and deployment
 - Communication, education and outreach
 - Policy and planning
 - Accessibility and connectivity
 - Governor’s Advisory Council Goals – Statewide
 - Equity, Mobility, and Accessibility
 - Jobs and Workforce Development
 - Safety and Efficiency
 - Economic Development and Small Business
 - Public Health and Sustainability
 - It is important to emphasize the CAV-X Office manages DOT funding for CAV which comes with limitations and also obligations for how our funding is used and for what purposes. Many GAC goals expand outside of DOT responsibility so alternative programs and funding likely need to be identified and explored to address other GAC recommendations and goals (aligns with the 2022 recommendations).
- Demonstration Project Updates
 - White Bear Lake Autonomous Shuttle Project (Bear Tracks) expected to have a public launch this August
 - Grand Rapids Autonomous Shuttle Project (goMARTI) contract is executed and expected to have a public launch this September
- Upcoming Events
 - Automated Road Transportation Symposium, Anaheim, CA – July 18-22
 - Drive MN – August 15-18

7. Public Comment

- Joan Willshire – always keep disability and accessibility in mind when talking about equity and applying for federal grants. Not many states are focusing on disability and CAV so an opportunity for Minnesota to be a leader
- Gina Baas – University of Minnesota is hosting the CAV Career Pathways camp again this summer in August. There are still a few spaces available. Looking for students going into 10-12 grade. Reach out the Gina if interested or have questions. There is no cost to the students to participate.

- John Hausladen – Suggestion to do a similar project to Drive MN with a class 8 truck in the winter
8. **Closing** – Next meeting is scheduled for September 28, 2022 from 8.30-10.30am
- Tara – CAV-X will be reaching out to Council members regarding strategies for connecting with communities experiencing transportation barriers
 - Phil – Innovation Alliance Committees have provided tremendous support to the Council and thanks everyone for a great meeting.
 - Commissioner Daubenberger – Thanked the 2022 recommendations working group members and Council members. MnDOT would be happy to host a future meeting in person if Council members are interested. There would be a virtual option either way.