



STATE OF DELAWARE  
**DEPARTMENT OF TRANSPORTATION**  
800 BAY ROAD  
P.O. BOX 778  
DOVER, DELAWARE 19903

JENNIFER COHAN  
SECRETARY

**Advisory Council on Connected and Autonomous Vehicles  
(Executive Order 14)  
Subcommittee on Economic Development**

Thursday, May 24, 2018  
9:30am – 12:00am  
DelDOT Administration Building, 800 Bay Road, Dover, DE  
Farmington/Felton Conference Room

**MINUTES**

**1. Welcome and Introductions**

- a. Meeting commenced at 9:48AM. P. Cannon introduced herself and opened the meeting with a round of introductions.

**Present Voting Committee Members**

Ruth Briggs King	House of Representatives
Patty Cannon	Division of Small Business, Development and Tourism
Steven Chillas	Delaware OMB –Contracting
Ed Osienski	House of Representatives

**Absent Voting Committee Members**

Brian Pettyjohn	State Senate
Bill Pfaff	Sussex County
Scott Vien	Division of Motor Vehicles (DMV)

**Also Present**

Jim Lardear	AAA Mid-Atlantic
Al McGowan	TrafficCast
Colton Phillips	DelDOT
Megan Rosica	Jacobs
Mark Thompson	WhyFly

2. **Review and Motion to Approve 2/15/2018 Meeting Minutes (March/April meetings were not conducted due to lack of quorum)**



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- a. The committee reviewed the meeting minutes from February 15<sup>th</sup>, 2018 and had no revisions or comments. E. Osienski made a motion to approve the minutes. Motion was seconded by S. Chillas. Motion passed and the minutes were approved.

### 3. New Business

- a. Call for Nominations/Vote for potential new members and/or officers
  - i. R. Briggs King made a motion to elect S. Chillas as co-chair of the committee. E. Osienski seconded and the motion passed.
  - ii. E. Osienski made a motion to add the following members to the committee:

Al McGowan (TrafficCast)  
Jim Lardear (AAA Mid-Atlantic)  
Mark Thompson (WhyFly)  
Colton Phillips (DeIDOT Planning)

R. Briggs King seconded and the motion passed, bringing the total number of subcommittee members to 11.

- b. The committee discussed potential recommendations to the general council that should be included in the final report due July 31<sup>st</sup>.
  - i. S. Chillas suggested recommending legislation that would offer incentive to higher education programs within the state, specifically universities that are more affordable than just the University of Delaware (e.g. Wilmington University, Delaware Technical Community College, etc.). E. Osienski indicated that legislation may not be necessary for this and just a Memorandum of Understanding (MOU) will suffice.
  - ii. A. McGowan indicated that in order to promote economic development in DE, a test bed should be created to attract industry experts.
    1. Infrastructure is already in place or being developed, so by creating a test bed that includes 3D mapping, smart corridors, smart lanes, etc. to allow companies to test in real-time, it could drive resources, innovation and industry/engineering to the State.
    2. A. McGowan noted that Delaware is unique and “repackaging” the available resources and current CAV technologies being implemented would help to promote interest from companies.
    3. P. Cannon indicated the need to educate the public and market this technology in a way that shows drivers the benefits and opportunities associated with AVs.



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- iii. S. Chillas suggested some sort of small business incentive to drive AV technology experts. R. Briggs King wondered if AV technology could be used to relieve some of the cost burdens currently on public transportation – public transport in DE is very costly and has low ridership. Reducing costs could help to promote the use of public transportation, especially in areas like Sussex County that has a large geographic area but low population.
- iv. E. Osienski discussed the Delaware Prosperity Partnership which is tasked with investigating opportunities for economic development in industry. A potential recommendation could be made to the Delaware Workforce Development Board that as they develop rubrics for rating/ranking project proposals they prioritize CAV/drone technologies.
- v. R. Briggs King recommended legislators investigate traffic and laws and regulations currently in place for operation of ADS (e.g. one hand on wheel requirement, etc.). S. Chillas indicated that an operator in Delaware is defined in the code as a person is in control of the vehicle, but it does not define what “in control of vehicle” means.
- vi. E. Osienski recommended investigating opportunities to use CAV in construction projects, such as truck attenuators for things like dump trucks. Specific use of CAV technology in this way could attract research and industry to the State.
  - 1. C. Phillips made a point that in order to move forward with this idea, it is important to consider platooning laws and the current “following too closely” laws in place that will not allow for close proximity between vehicles.
  - 2. Revenue could be generated by incentivizing freight driving through Delaware, since a majority of traffic on I-95 and other major highways include high volumes of freight trucks passing through.
- vii. R. Briggs King brought up the idea of retrofitting vehicles to become autonomous and setting up some sort of educational program so Delaware can be a hub for training skilled people to retrofit so that not everyone has to buy new AVs.
- viii. S. Chillas pointed out that farming equipment companies such as John Deere and New Holland are developing autonomous tractors and mowers for safer operations.
  - 1. P. Cannon discussed the Delaware Rural Irrigation Program (DRIP) and how to tie in CAVs. A potential recommendation could be made to the Delaware Economic Development Association (DEDA) to include CAV and robotics in their rubric board and technology for training.



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- ix. R. Briggs King indicated the potential for using CAV to address concerns with container transportation within ports. The Wilmington Port expansion could serve as an opportunity for AV technology use.
- x. S. Chillas brought up the idea of focusing on opportunities within the tourist industry. R. Briggs King noted that a major concern for people who fly into Georgetown is transportation to their homes from the airport. AVs could help with this by providing a designated smart corridor or installing an AV shuttle. P. Cannon suggested investigating opportunities for a bike-share in this area along the lines of what Portland, OR is doing. P. Cannon will discuss the opportunity to promote sustainability with Chesapeake Utility/Sharp Energy. R. Briggs King will reach out to Pam Price from Highmark.
- xi. M. Thompson suggested recommending legislation, or perhaps an MOU, to allow DelDOT to perform more experimental, short-term projects similar to what Virginia has done, which gives an available time period for implementation. M. Thompson will send the VA draft legislation to the group for review.
- xii. S. Chillas asked A. McGowan and M. Thompson, from an industry perspective, what would drive their companies to Delaware? A. McGowan responded that access to a major talent pool would help with promotion of DE as a work place; also providing a holistic solution rather than just a project creates an attractive environment.
  - 1. R. Briggs King indicated that in Sussex County there ~~is no~~ are limited opportunities for local employment for the educated workforce. A potential recommendation could be to encourage schools to engage students at a young age into this industry.
  - 2. P. Cannon indicated that Delaware Tech Week is occurring soon and a recommendation could be to include a session on CAV technologies. Another recommendation could be to challenge the business community to give younger people the chance to get involved (high school students are not able to get hired as interns).
- xiii. R. Briggs King brought up the fact that many retailers and businesses are moving toward online ordering/delivery and indicated the opportunity for involving AV technology in delivery to local places that are unable to engage with larger businesses.
- xiv. P. Cannon indicated that the Delaware State Fair is occurring in July – she suggested an AV demonstration be done at the fair as a way to begin to educate the public on this technology. J. Lardear noted that Local Motors (National Harbor) could be a potential supplier of an autonomous vehicle for a demo at the



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fair. S. Chillas will also reach out to John Deere to see if they can provide a demo on their autonomous technologies.

- xv. A. McGowan pointed out the difference between connected and autonomous and suggested tying local economy into the autonomous space. He also suggested expanding the SPaT challenge and Smart Corridor projects to include an entire city rather than just one road, and involving local businesses.
- xvi. E. Osienski indicated the importance of involving auto mechanics in this discussion – maintaining AVs will be important. A. McGowan noted that learning how the technology works will be crucial –computer code becomes an important part of vehicle maintenance. E. Osienski will speak with his contacts to join the next subcommittee meeting, as well as a representative from Delaware Express.
- xvii. S. Chillas brought up the idea of providing tax breaks on state income taxes in exchange for driver/vehicle data. A. McGowan indicated that the data set is important – Artificial Intelligence and machine-learning will be the future of this technology. Accessing data in the correct way will allow for the creation of jobs and education to the industry and to consumers.
  1. S. Chillas indicated that public-private partnerships could be used to stimulate business growth and promote economic development– this technology is passing us and it is difficult to keep up. A. McGowan responded that this conversation is not happening in a lot of other states and this could be an opportunity to differentiate Delaware.

#### **4. Public Comment**

- a. There was no public comment.
5. The next meeting will be held on June 21<sup>st</sup>, 2018 from 9:30am-11:00pm before the general council meeting. S. Chillas will coordinate with DeIDOT to reserve a conference room.
  6. R. Briggs King made the motion to close the meeting. S. Chillas seconded the motion. Meeting adjourned at 11:45.

#### **Action Item Summary:**

1. Jacobs will add committee members to the Membership section of the final report draft.
2. P. Cannon will discuss the opportunity to promote sustainability by implementing a bike-share program with Chesapeake Utility/Sharp Energy.
3. R. Briggs King will reach out to Pam Price (Highmark Blue Cross Blue Shield) regarding a potential bike-sharing program.



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4. M. Thompson will send the Virginia draft legislation regarding AV projects to the group for review.
5. J. Lardear will reach out to Local Motors (National Harbor) about potentially supplying an autonomous vehicle for demonstration at the State Fair. S. Chillas will also reach out to John Deere to see if they can provide a demo on their autonomous technologies for the fair.
6. E. Osienski will speak with representatives from Delaware auto mechanics, Delaware Express, and Gulfstream Lobbyists.
7. S. Chillas will reserve the conference room for the next committee meeting on June 21<sup>st</sup>, 2018.