

Connected and Autonomous Vehicles: Legislative and Other Comparisons-Next Steps

Technology Law and Public Policy Clinic
University of Washington School of Law

William Covington-Director



Background



- **Six Recommendations**
 1. **Preempt Local Regulation:** prevent unnecessary roadblocks to deployment of A/Vs.
 2. **Update Definitions:** revise the RCW to accommodate new technologies.
 3. **Self Certification:** promote innovation & freedom to develop new technologies.

Background



- **Six Recommendations**

4. Enhanced Infrastructure: encourage local, state, and federal improvements in road systems and technologies to support A/Vs.
5. Liability: impose liability on A/V systems and manufacturers while autonomous systems are in operation.
6. Update current data security laws: “lead the pack” in securing driver and user data.

Comparisons



- Subcommittees asked to comment on student recommendations
- Students asked to revisit and support recommendations
- Need to vet recommendations by examining what is taking place around the country

POLICY MATRIX – CONNECTED AND AUTONOMOUS VEHICLES (CAVs)

| State | Contact | Legislation, Executive Order and/or Dept. Regulations |
|--|--|---|
| <p><i>State Name</i></p> <p><i>State Seal</i></p> | <p><i>Policy (Legislative Analyst; Attorney General; Other)</i></p> <p><i>Operations (Department of Transportation; Other) Operations (Department of Transportation)</i></p> | <p>Definitions? Source? (SAE, ULC, Industry? Other?)</p> |
| <p>Testing (Automobiles)</p> | <p>Testing (Busses? Shuttles? TNCs? Other?)</p> | <p>Testing and Deployment Requirements (Information to be Submitted; Operator Requirements; Other)</p> |
| <p>Oversight Department (DOT? DOL? Other?)</p> <p>Local Government (Political Subdivision) Pre-emption</p> | <p>Department Investigation and Approval? OR Self-Certification?</p> <p>Infrastructure Improvements to Prepare for CAVs?</p> | <p>Lessons Learned as Result of Testing</p> <p>Liability (Insurance Requirement? Software Designated as Operator? Other?)</p> |

| State | Contact | Legislation &/or Executive Order |
|--|--|---|
| Pennsylvania   | Mark C. Kopko Special Advisor - Transformational Technology Office of the Secretary PA Department of Transportation 400 North Street, 6th Floor Harrisburg, PA 17120 Phone 717.783.1903 www.penndot.gov markopko@pa.gov | SB 1267 (2016) See: https://www.legis.state.pa.us/cfdocs/legis/li/uconsCheck.cfm?yr=2016&sessInd=0&act=101 -Allows spending of up to \$40M on intelligent transportation systems which could benefit autonomous and connected vehicles HB 1958 (2018) See: https://www.legis.state.pa.us/CFDOCS/Legis/PN/Public/btCheck.cfm?txtType=PDF&sessYr=2017&sessInd=0&billBody=H&billTyp=B&billNbr=1958&pn=4276 -Defines “platoon” -Detailed rules on platooning e.g. no more than three trucks; there must be a driver in each vehicle, must file plan with the Department --Definitions section applicable to Highly Automated Vehicles -Establishes Highly Automated Vehicles Advisory Committee -Advisory Committee shall examine existing laws and provide an annual report Source of Definitions -Three sources: SAE, United States Department of Transportation and Michigan legislation |
| Testing (Autos) | Testing (Other) | Testing and Deployment requirements |
| -Six companies have tested in PA | -There has been no testing of truck platooning to date | See Automated Vehicle Testing Guidance (July 23, 2018) https://www.penndot.gov/ProjectAndPrograms/ResearchandTesting/Autonomous%20Vehicles/Documents/PennDOT%20HAV%20Testing%20Guidance.pdf |

Queries/Topics



- Contacts
- Legislation/Executive Order/Departmental Regulations
- Testing and Deployment
- Testing Requirements
- Preemption and Local Government Activity

Queries/Topics



- Infrastructure Development (Communications; Signaling; Highway Stripes; Signage; Other)
- Liability
- Information Gathering/Data Security
- Social Justice
- Stakeholder Interest
- Misc. Information
- Other Contacts

Progress to Date

- Communication
 - All states contacted (email and letter)
 - Dialog with: representatives of: Alaska, Arizona, Arkansas, City of Boston, Colorado, Connecticut, Florida , Georgia, Hawaii, Idaho, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Nebraska, Nevada, North Carolina, North Dakota, Pennsylvania, Utah, Vermont, Virginia and Wisconsin

Progress to Date

- Noteworthy
 - Arizona –DOT working with University of Arizona on messaging and signaling
 - Arkansas –Railroads are concerned about CAVs and crossings
 - Georgia-Exploring public-private partnership for laying dual purpose fiber
 - Idaho-Comparing advantages of DSRC versus 5G

Progress to Date

- Noteworthy
 - Kansas-Project exploring IOT technology and its potential uses
 - Michigan –Extensive activity in southeastern Michigan; deploying both DSRC and 5G
 - Minnesota-Exploring working with 3M on signage
 - North Carolina-Installing “long life” marking on rural roads

Request for Assistance

- 1. Are the right questions being asked?
- 2. Should other questions be added?
- 3. How should the gathered information be analyzed?
- 4. In what other ways can this project be useful?

Questions?



Comments?