

Date / Time / Location	W 12-Aug-2020 / 1300-1500 / Skype Meeting
Attending/ Representing	<ul> <li>HAV Advisory Committee: Steve D'Ettorre (SD), Eric Donnell (ED), Thomas Foley (TF), Melissa Froelich (MF), Jason Gerard (JG), Yassmin Gramian (YG), Michael Humphryes (MH), Erik Johanson (EJ), John Lacek (JL), Ted Leonard (TL), Shannen Logue (SL), Alison Pascale (AP), Nolan Ritchie (NR), Matt Rucci (MR), Josiah Shelly (JoS), Kristofer Snader (KS), Frank Snyder (FS), Kyle Wagonseller (KW), Kelley Yemen (KY)</li> <li>Additional Attendees: Rachelle Celebrezze (RaC), Sarah Clark (SC), Roger Cohen (RoC), Natasha Fackler (NF), Roy Gothie (RG), Mark Kopko (MK), George McAuley (GM), Joseph Murzyn (JM), Kurt Myers (KM), Ngani Ndimbie (NN), Jason Sharp (JaS), Kevin Tobias (KeT)</li> <li>PennDOT Consultant Team: Jeff Bergsten (JB), Scott Seibel (SS)</li> </ul>

Key Points and Decisions:	Action Items:
<ol> <li>Annual Report (MK)         <ul> <li>The draft annual report, required in Act 117, has been distributed to committee members for review.</li> <li>The committee members agree that the report appropriately represente work completed by the committee to date.</li> <li>The report will be finalized by W 19-Aug-2020 and distributed to all members as well as posted on the PennDOT website.</li> </ul> </li> </ol>	Report to MK prior to W 19- Aug-2020
<ol> <li>PennDOT Updates (MK)         <ul> <li>The AV Testing Guidance 2.0</li> <li>The testing guidance has been finalized and will be issued testers and posted on the PennDOT website. The update consisted of four rounds of revisions and over 40 hours of conversations with AV testers.</li> <li>All new testers must comply with the guidance immediately existing testers must provide additional information expires</li> <li>Key updates and revisions to the document include the fol</li> <li>Testers must provide additional information if they rides to members of the general public.</li> <li>Criteria established to transition from two safety of to a single safety operator in the vehicle.</li> <li>Testers must provide additional information about Operational Design Domain.</li> <li>Testers must report additional information as part semi-annual data collection form.</li> <li>Established restrictions for commercial vehicles.</li> <li>Shortened the maximum crash reporting time.</li> <li>Requires an Emergency Service Responders Plar b. Incident Response Plan (MK)</li> <li>PennDOT has been working with first responders, various of government, and other entities to determine the best communication line for incident response.</li> </ul> </li> </ol>	process y and s. llowing: provide perators their of their n.





		iii. Private sector stakeholders should also be identified. These		
		stakeholders can be a helpful force in terms of education.		
5.		ing Transit Vehicles Update (MK)	$\succ$	PennDOT to authorize
	а.	A work order for the platooning transit vehicle feasibility research project is		Work Order for this
		currently being scoped and should receive notice to proceed in early		platooning transit vehicles
		September. The final product will consist of a high level feasibility study		high level feasibility Study.
		report/presentation.		
	b.	The project has gained interest from USDOT, municipalities, and transit		
		authorities.		
	С.	Similar research was previously conducted by Japan about 15 years ago,		
		but not to the extent planned for this project. However, any previous		
		research or work being done regarding this topic will be leveraged.		
		Connecticut DOT is currently moving forward with a similar project but is		
		planning on utilizing a Bus Rapid Transit line (and our project would just		
	d	use existing roadway lanes).		
	d.	The work order high level feasibility study is expected to take about 28 weeks after receiving paties to proceed, which is just slightly longer than		
		weeks after receiving notice to proceed, which is just slightly longer than NR's proposed six month timeframe.		
6.	Liability	Discussion (JL)	$\succ$	Committee reach out to MK
0.	5	A research initiative was proposed by the PA Insurance Department for		if interested in participating
	а.	the AV Task Force with the following charges:		in the continued liability
		i. To conduct qualitative research into current and potential liability		discussion.
		surrounding the operation of HAV's and HAV production. This		
		research shall consist of discussions, interviews, meetings,	$\triangleright$	MK coordinate with
		presentations, and other forms of qualitative research with	ĺ.	interested committee
		industry participants. The goal of the research shall be to develop		members to set up a
		an understanding of the entire HAV industry and where liability		meeting to continue the
		issues may now or in the future become problematic.		liability discussion and
		ii. To conduct an analysis and qualitative research into the steps		determine if it is
		being taken by other states in regard to HAV and liability issues		appropriate for this
		including policy actions, legal actions, legislation, regulation, or		Advisory Committee to take
		other relevant action in relation to HAV's and liability.		on the proposed research
		iii. To produce a report summarizing the core findings relating to this		work suggested by JL.
		charge. The report may be submitted in a form which the Task		
		Force deems appropriate including a written report, presentation,		
		or other similar method.		
1	b.	HAVs are unique and once they are in stage 4 and stage 5 of automation,		
	_	they are not analogous to anything else.		
	С.	It was clarified that the goal of this initiative is to better understand the		
1	ام	implications and not to propose legislation.		
	d.	It was noted that this initiative may be a task to be done at a national level, and it would be difficult to conduct adequate research before development		
		and it would be difficult to conduct adequate research before development		
1	0	is further along.		
1	e.	Similar work regarding products liability was completed by the New York Bar and should be used as a starting point. An aspect of this proposed		
		Bar and should be used as a starting point. An aspect of this proposed		



		initiative is to look at the ecosystem as a whole to determine if products		
		liability is the best system to appropriately allocate costs.		
	f.	It was decided by the committee to explore the proposal further before		
		charging the AV Task Force with the initiative as to not duplicate anything		
		that has been done before, and to determine that this is best addressed by		
		individual states instead of nationally.		
7. TI	he fol	lowing questions were asked for an open discussion:	$\triangleright$	PennDOT engage entities
<i>,</i>	a.		Ĺ	listed in Summary Item 7.a.
	u.	engaging? (MK)		isted in Summary term 7.d.
		i. Additional university partners	Δ	Committee send additional
		ii. The Public Utility Commission has previously attended AV Task	-	feedback regarding
				<b>3 3</b>
		Force meetings, but closer communication should be conducted to		Summary Item 7.b to SD.
		increase their involvement.	~	DoppDOT roach out to
		iii. The Pennsylvania Motor Truck Association is interested in		PennDOT reach out to
		platooning technology and should be re-engaged with the AV		NCSL for Summary Item
		Task Force.		7.c.
		iv. Bring in and engage rural representatives in the AV Task Force.		
		This may be done through the local government subcommittee of		MK follow up with MF
		the AV Task Force.		regarding best practices
		v. Engage the Families for Safe Streets Greater Philadelphia and the		and insights for Summary
		Philadelphia Vision Zero Alliance to participate in the AV Task		Item 7.c.
		Force.		
	b.	How can Pennsylvania support secondary and tertiary industries as part of		
		the supply chain to AVs to boost economic development, especially		
		outside major urban areas? (SD)		
		i. Connections may be made with partners and manufacturers		
		looking to pivot to more needed products.		
		ii. Research may be done to determine areas of potential		
		collaboration.		
		iii. Forums or other resources may be benefit in setting up a more		
		coordinated introduction between parties.		
	C	Aside from education, what should the Commonwealth be doing to ensure		
	0.	consistency and interoperability throughout the state? (MK)		
		i. The National Conference of State Legislatures (NCSL) should be		
		reached out to determine any best practices or processes used in		
		other states. NCSL has an AV Primer on their website detailing		
		0		
		what other states have done on legislation.		
		ii. Issues that AV testers have run into may be insightful and worth		
	-1	pursuing.		
	a.	Aside from changes to the vehicle code, what needs to be addressed prior		
		to the deployment of highly automated vehicles? (MK)		
		i. Big picture issues and an unclear business model.		
		ii. How to create and support scalability.		
		iii. Engaging public transit agencies.		
		iv. Curbside management.		