WASHINGTON STATE
AUTONOMOUS VEHICLE
WORK GROUP

Washington State Autonomous Vehicle Work Group Subcommittee Recommendation Form

Recommendation: Increase funding for WSDOT to develop a sustainable Next Generation Work Zone Database.

Subcommittee	Infrastructure and Systems
Date of Meeting	Introduced on September 11th, 2020, Virtual vote, Week of October 26th, 2020 – November 4th, 2020
Voting Members Present	**Yes** = 23 Votes, **No** = 1 Vote, **Abstain/Neutral** = 2 Votes For additional details and comments, please see accompanying Excel file "Final Votes Nov 4 2020"

Instructions:

1) List subject of discussion
2) Write a detailed description of the recommendation, including the timeframe recommended for adoption, the agencies and stakeholders affected, and any fiscal implications. Identify potential challenges, including funding, regulation, legislation, education, etc. List recommended remedies to address identified challenges.
3) Check all required changes and write in any that are not listed. Provide a brief explanation of the change needed
4) Check all impact areas affected and list recommendations for addressing identified impacts. Write in any impact areas not listed.
5) If the recommendation has been voted on, please list votes in favor and against If no vote was taken, please note why.

1) RECOMMENDATION

Request for the Legislature to support WSDOT's work zone data initiative and to consider increased, ongoing investments during future, new revenue discussions to enhance WSDOTs capacity to develop a comprehensive, real time work zone data base.

- This data base will provide real-time communication to vehicles on the road to enhance both traveler and work zone worker safety.
- This information will be used by existing vehicles on the road today to increase situational / traveler awareness and will enable / disable SAE Level 3 technologies commercially available today.
- In addition, this will support the safe testing of SAE Level 4 technologies that may decide to modify/tailor testing procedures and locations based on the awareness of work zones. Work zones are typically custom designed and flexible to meet the unique conditions of each application but are therefore inherently more complex to navigate using Advanced Driver Assistive Technologies (ADAS) and Automated Driving Systems (ADS) technologies than normal operations.

2) RECOMMENDATION DESCRIPTION, CHALLENGES, AND MITIGATION

Existing machine vision technology on the road today (SAE Levels 1-3) and Automated Driving Systems (SAE Level 4) Technologies that are currently being tested on public are still learning how to identify and navigate the wide variety of work zones. As noted in the "*WSDOT's NextGen Work Zone Database and iCone Pilot*" presentation given to the Infrastructure and Systems Subcommittee on September 11th, 2020 **(see here**) WSDOT is working regionally and nationally through the FHWA Work Zone Data Exchange to develop a Next Generation Work Zone Data Base. Although WSDOT has already applied for grant funding to support these efforts, this funding, if received would only be sufficient for a proof of concept.

Recommended Remedies:

Support WSDOT's work zone data initiative and consider increased funding during future, new revenue discussions for WSDOT to develop a sustainable Next Generation Work Zone Database to enhance driver and work zone safety

Additional Notes:

3) REQUIREMENTS IDENTIFIED		
"X" or blank	Type of Change Required	Brief Description of Change Needed
	Cost impact mitigation	
X	Legislative change	Increased Funding
	Regulatory change	
	Other	

4) IDENTIFIED IMPLICATIONS AND IMPACTS		
"X" OR BLANK	Impact Area	Description of Implication / Impact
X	Infrastructure	Real-time awareness of active work zones statewide.
X	Safety	Potential crash reduction benefits. Each year approximately 40 work zone attenuators are impacted by vehicles entering a work zone.
X	Insurance	Vehicles with ADAS and ADA Technologies that consider and/or warn the driver that they are approaching / entering a work zone could benefit from more favorable premiums over time.
	Health and livability	
	Environmental	
	Economic	
	Workforce	
	Equitable Access	
	Other	

5) VOTES	
23	Aye

5) VOTES	
1	Nay
2	Abstained