Date of Last Update (edit each time): **10/1/2020**

UTC Project Information	
Project Title	Improving Methods to Measure Attentiveness through Driver Monitoring
University	Virginia Tech – Virginia Tech Transportation Institute
Principal Investigator	Luke Neurauter
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Funding Source(s) and Amounts Provided (by each agency or organization)	Safe-D (Federal): $155,412 Previous Projects match source (Non-Federal): $1,418,000 OEM In-Kind labor match source (Non-Federal): $34,571
Total Project Cost	$1,602,787
Agency ID or Contract Number	Grant No: 69A3551747115 Project: 05-091
Start and End Dates	11/1/2020 – 1/31/2022
Brief Description of Research Project	Distracted drivers are involved in approximately 4 million vehicle accidents each year in the U.S. (Dingus et al. 2016). These crashes result in many lives lost and billions of dollars in damages. This widespread issue has resulted in the adoption of regulations in the European Union that will require all new vehicles produced by mid-2022 to be equipped with driver monitoring systems (DMS; Gibbs, 2019). Although new vehicles would be required to incorporate driver monitoring, the optimal approach for determining/identifying inattention is still up for debate. This project leverages previous research, naturalistic databases, and input from recent literature to develop robust algorithms for assessing when drivers are inattentive to the driving task, while also investigating limitations of different approaches and sources of information. Effectively detecting distraction and inattention can enable automakers to develop countermeasures against this behavior and thereby increase safety for all road users.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	1) Final Report & Dataset 2) EWD: Course Module; Conference presentation 3) T2: stakeholder survey; journal article; engage with external groups; patent application; Safe-D webinar

Impacts/Benefits of Implementation (actual, not anticipated)	Upcoming

Web Links
   • Reports
   • Project website
	https://safed.vtti.vt.edu/projects/improving-methods-to-measure-attentiveness-through-driver-monitoring/