UTC Project Information	
Project Title	Standardized Performance Evaluation of Vehicles with Automated Capabilities
University	VTTI/VT
Principal Investigator	Leslie C. Harwood (VTTI)
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Funding Source(s) and Amounts Provided (by each agency or organization)	$36,923 (Federal funding) $10,175 (Virginia Smart Road)
Total Project Cost	$47,098
Agency ID or Contract Number	Grant No: 69A3551747115 Project: VTTI-00-020
Start and End Dates	1/22/2018-6/30/2019
Brief Description of Research Project	Advanced driver-assistance systems (ADAS) are becoming more widely available in the new vehicle landscape, increasing safety of both vehicle occupants and other road users. In some vehicles, both longitudinal and lateral positioning under certain conditions can be maintained, designating them as having Level 2 (L2) automation capabilities. By developing a standardized set of tests to be applied to current L2 automated vehicles, while keeping the future advancement of automation in mind, the vehicles' system performance, feature limitations, and performance consistency can be systematically evaluated.The project goal is to create an initial set of standardized tests to explore whether they enable the ongoing evaluation of automated driving features as they evolve over time. These tests will focus on situations that are representative of several daily driving scenarios as encountered by lower-level automated features, often called Advanced Driver Assistance Systems (ADAS), while looking forward to higher levels of automation as new systems are deployed.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	Research outcomes are expected to be an initial set of standardized testing procedures for advanced vehicles systems. These testing procedures are expected to be used within VTTI as well as published for broader use and further development. It is understood that as vehicle systems advance, testing procedures may need to be altered or additional tests added.
Impacts/Benefits of Implementation (actual, not anticipated)	L2 vehicles can have widely varying capabilities by manufacturer and model. By developing a standardized set of tests to be applied to current L2 automated vehicles, while keeping the future advancement of automation in mind, the vehicles' system

	performance, feature limitations, and performance consistency can be systematically evaluated.
Web Links • Reports • Project website	https://www.vtti.vt.edu/utc/safe-d/index.php/projects/standardized-performance-evaluation-of-vehicles-with-automated-capabilities/