

UTC Project Information	
Project Title	Utilization of Connectivity and Automation in Support of Transportation Agencies' Decision Making (Project G3)
University	Florida International University
Principal Investigator	Mohammed Hadi Professor Department of Civil and Environmental Engineering
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Funding Source(s) and Amounts Provided (by each agency or organization)	STRIDE: \$286,352 FDOT (FIU): \$76,352 NCDOT: \$60,000 GaTech: \$100,000 FDOT (UF): \$50,000
Total Project Cost	\$286,352
Agency ID or Contract Number	69A3551747104
Start and End Dates	January 1, 2020 – August 31, 2021
Brief Description of Research Project	This project will identify, develop, and implement a suite of simulation models and methods for use in assessing the implications of the presence of connected vehicles (CV), automatous vehicles (AV), and connected automated vehicles (CAV) in the traffic stream and in evaluating the impacts of associated applications that use these technologies. The project will build on current national and international efforts including the on-going research conducted by the Federal Highway Administration (FHWA). As such, the research will start with a comprehensive review and assessment of the literature and existing products on the subject including examining the products of the FHWA effort. Using the review and assessment as a basis, high priority CAV applications to be addressed in this project will be identified based on defined criteria and a framework and guidelines will be developed for the use of analysis, simulation, and modeling of CAV. The project will then develop procedures for calibrating and validating simulation models to ensure the

	<p>proper use of these models in replicating emerging vehicle technologies and applications. The research team will also identify and develop utilities and extensions of existing models to allow the modeling of selected high priority modeling applications. The project will demonstrate the use of the project development to support agency decisions with regard to high priority CAV applications.</p>
<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	<p>Not available. Research is in progress.</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>Not available. Research is in progress.</p>
<p>Web Links</p> <ul style="list-style-type: none">• Reports• Project website	<p>https://stride.ce.ufl.edu/project-g3/</p>