

UTC Project Information	
Project Title	Micro-Mobility as a Solution to Reduce Urban Traffic Congestion (Project B3)
University	University of Florida
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Funding Source(s) and Amounts Provided (by each agency or organization)	STRIDE: \$134,759 FDOT: \$80,000 UAB: \$54,759
Total Project Cost	\$134,759
Agency ID or Contract Number	69A3551747104
Start and End Dates	November 1, 2019 – October 31, 2020
Brief Description of Research Project	Micro-mobility refers to e-scooters, dockless bikes, and other low-speed modes and is an innovative transportation strategy that has demonstrated a great potential for congestion mitigation. However, the research on micro-mobility is very limited in the field of transportation. This proposal, thus, aims to conduct a comprehensive study to analyze, quantify, and understand the impacts of micro-mobility on congestion reduction and recommend corresponding intervention strategies for stakeholders. Specifically, we will first leverage historical e-scooter travel demand data, socio-demographic data, land-use data, and other relevant data to explore travelers' usage patterns, especially in the congested times and locations. Then, we will apply interpretable machine learning to model and explain the relationships between e-scooter travel demand and other important features, including traffic conditions, time of day, availability of bike lanes, etc. These results will then feed directly into an activity-based traffic simulator to conduct various scenario analyses and sensitivity analyses to understand whether and when e-scooters can reduce congestion effectively. Lastly, all the findings and insights will be used for identifying needs,

	opportunities, and potential obstacles for policy and operational cooperation between stakeholders. A set of policy intervention strategies will also be proposed for the promotion of e-scooter usage.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	Not available. Research is in progress.
Impacts/Benefits of Implementation (actual, not anticipated)	Not available. Research is in progress.
Web Links <ul style="list-style-type: none">• Reports• Project website	https://stride.ce.ufl.edu/project-b3/