

Grant Deliverables and Reporting Requirements for UTC Grants

<b>UTC Project Information</b>	
Project Title	Demand-Driven Operational Design for Shared Mobility with Ride-pooling Options
University	University of South Florida Cornell University
Principal Investigator	Xiaopeng Li Samitha Samaranayake
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Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT: \$65,728 USF: \$17,760; Cornell: \$15,230
Total Project Cost	\$98,718
Agency ID or Contract Number	Sponsor Source: Federal Government CFDA #: 20.701 Agreement ID: 69A3551747119
Start and End Dates	Start date: 10/01/2018 End date: 9/30/2019
Brief Description of Research Project	This proposal aims to develop a demand-driven approach for shared mobility operations with machine learning and math programming methods. The objective of this approach is to incorporate economic, environment and equity impacts over an entire operational cycle. Both ride-hailing systems (e.g. Lyft) and ride-pooling systems (e.g. UberPool) will be investigated. The developed models will be tested with real-world taxi data including detailed trajectories of vehicles and their loading states at all times.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links <sup>[[[ ]]</sup> <sub>SEP</sub> • Reports • Project website	<a href="http://ctech.cee.cornell.edu/final-project-reports/">http://ctech.cee.cornell.edu/final-project-reports/</a>

