

Grant Deliverables and Reporting Requirements for UTC Grants

UTC Project Information	
Project Title	Evaluating the Efficiency and Health Impacts of Next-Generation Transit System Design with Integration of Shared Mobility Services
University	University of California Davis
Principal Investigator	Yueyue Fan
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Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT: \$59,940 UC Davis: \$30,249
Total Project Cost	\$90,189
Agency ID or Contract Number	Sponsor Source: Federal Government CFDA #: 20.701 Agreement ID: 69A3551747119
Start and End Dates	Start date: 12/1/2017 End date: 9/30/2018

<p>Brief Description of Research Project</p>	<p>In the new mobility-as-service context, traditional system design principles of transit services may be revisited to improve the overall system effectiveness. In this report, we developed methods to quantify the effectiveness of a transit system, where private mobility services coexist, by measuring costs, social equity, environmental benefits etc. gained from active lifestyle. A real-world case study has been implemented to learn design and policy insights. While conducting this research, we also realized that the transit demand of a study area is often not available due to missing data. Since this is an important input for any network-based transit system design model, we also developed a method to infer missing transit demand via combining statistics and network modeling techniques.</p>
<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	<p>As described in the description above, while conducting this research, we realized that the transit demand of our study area was not available due to missing data. Since this is an important input for any network-based transit system design model, we spent part of our team effort on developing a method to infer missing transit demand via combining statistics and network modeling techniques. The results were not implemented during the one-year project duration.</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>N/A</p>
<p>Web Links</p> <ul style="list-style-type: none"> • Reports • Project website 	<p>https://ctech.cee.cornell.edu/final-project-reports/</p>