

Grant Deliverables and Reporting Requirements for UTC Grants

UTC Project Information	
Project Title	URBANO.IO V2 <i>The only tool that connects urban design, mobility, and public health</i>
University	Cornell University
Principal Investigator	Timur Dogan Samitha Samaranayake
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Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT: \$100,003 Cornell: \$50,208
Total Project Cost	\$150,211
Agency ID or Contract Number	Sponsor Source: Federal Government CFDA #: 20.701 Agreement ID: 69A3551747119
Start and End Dates	■ Start date: 08/21/2021 ■ End date: 01/20/2023
Brief Description of Research Project	<p>The current COVID-19 crisis reveals the vulnerability of urbanizing societies where cities are the current pandemic's focal points. Therefore, long-standing planning paradigms that promote urban density to enhance social life, increase efficiency, and sustainability must be re-evaluated using a data-driven approach. While U.S. transportation emissions dropped ~10% in 2020 as millions of workers stopped driving to work, the use of mass transportation may have accelerated the outbreak in specific locales like New York City. This suggests that the built environment, urban sustainability, and pandemic resilience are closely linked. To better understand how urban design choices relate to the spreading and containment of pathogens, practitioners and researchers need new tools at the nexus of urban design, mobility simulation, and public health modeling. This proposal seeks to elevate Urbano.io to version 2 by finalizing our new NHTS data-driven multimodal mobility model and by interfacing with existing public health models. We further develop a real-world, case study that enhances NYC OpenStreets and informs a large rezoning project to test and</p>

	showcase new features in close collaboration with our executive user group.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links • Reports • Project website	www.urbano.io http://ctech.cee.cornell.edu/final-project-reports/