

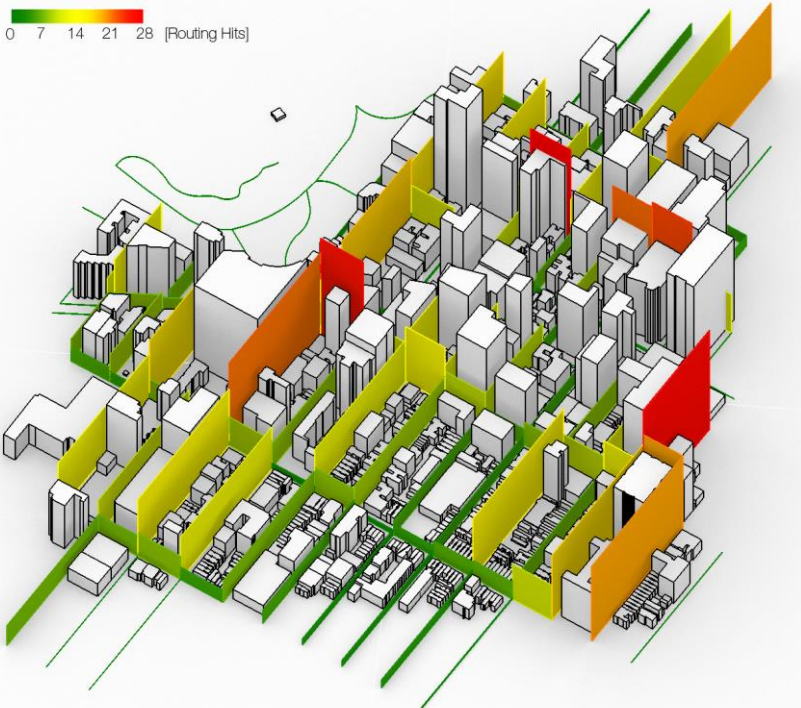


Grant Deliverables and Reporting Requirements for UTC Grants

<b>UTC Project Information</b>	
Project Title	Mobility-Aware Integrated Urban Design
University	Cornell University
Principal Investigator	Timur Dogan Samitha Samaranayake
PI Contact Information	<a href="mailto:tkd9@cornell.edu">tkd9@cornell.edu</a> <a href="mailto:ss3496@cornell.edu">ss3496@cornell.edu</a>
Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT: \$25,000 Non-Federal: \$12,500
Total Project Cost	\$37,500
Agency ID or Contract Number	Sponsor Source: Federal Government CFDA #: 20.701 Agreement ID: 69A3551747119
Start and End Dates	 Start date: 11/22/17  End date: 9/30/18
Brief Description of Research Project	Rapid urbanization, with new construction estimated to be 250 times NYC by 2050, is increasing traffic congestion, pollution and related health threats. This is a worrisome development but also a unique opportunity to improve urban mobility and quality of life. Understanding consequences of urban design choices on mobility, sustainability, and health is a necessity and requires development of a framework that enables such co-design processes. We propose a new design-toolkit to incorporate mobility, sustainability, health, and thermal comfort metrics into urban design projects. Process accuracy and impact is validated in collaboration with leading design practitioners and the NYC Planning Department.
Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here	

	 <p>Proof of concept design simulation tool output: Shortest path routing in NYC showing people density in streets [Dogan, Samaranayake, Saraf. 2017]</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	
<p>Web Links</p> <ul style="list-style-type: none"> <li>• Reports</li> <li>• Project website</li> </ul>	<p>ES.AAP.CORNELL.EDU  Project website will be generated shortly as sub category on the Environmental Systems Lab web presence.</p>

Samitha Samaranayake (Asst. Prof.), (ss3496@cornell.edu),