UTC Project Information	
Project Title	Accessibility-Based Evaluation of Transportation and Land-Use
	Planning: From Laboratory to Practice
University	University of Michigan
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Agency ID or Contract	DTRT12-G-UTC05
Number	
Start and End Dates	01/01/2013
Brief Description of	The project will be informed by lessons derived from a previous
Research Project	multi-year project at the University of Michigan that measured

regional accessibility among the top 50 metropolitan regions of the United States, and will proceed in four interrelated stages:

A. Research political and technical barriers to the adoption of accessibility-based evaluation. Practitioners and decision makers in land-use and transportation planning will be studied to assess the relative role of political, institutional, and technical barriers to the adoption of accessibility-based evaluation. These may include, for example, difficulties in data acquisition or processing, the persistence of professional standards based in mobility evaluation, or perceived incompatibility with political interests. Interactions with practitioners and decision makers may take the form of interviews, focus groups, or surveys. This section will study both decision-making environments lacking in accessibility-based evaluation and those in which some accessibility evaluation has been adopted.

B. Develop case studies of accessibility- and mobility-based evaluation. The impact of the alternative approaches to evaluation will be documented through selected case studies of each approach. The project will seek to understand how the two approaches affect public-sector decision making, actions by private-sector developers and other actors; and physical outcomes. Physical outcomes will be represented through visual analysis techniques and three dimensional diagrams to emphasize the built-form consequences, spatial typologies, and spatial performance characteristics resulting from alternative policy approaches. Impacts on decision-making will be presented through narrative case studies chosen to illustrate the workings of accessibility- and mobility-based evaluation on transportation and land-use decision making under a range of circumstances.

C. Develop approaches to incorporating accessibility-based evaluation. The project's working assumption is that engineers and planners in practice lack readily implementable approaches to determining the desirability of both land-use and transportation projects in accessibility terms. The project will develop qualitative, quantitative, and graphical tools to assist practitioners in their accessibility-based evaluation of these projects. The qualitative approaches will be based on the case studies and will be designed to help engineers and planners interpret from context the accessibility impact of transportation and land-use developments. A set of guidelines will be developed from consistent patterns that emerge from analysis of the case studies. The quantitative approaches will define metrics of accessibility that would be implementable in practice based

Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	on readily available data. Example calculations will be demonstrated and linked to the qualitative and graphical approaches. The graphical approaches will systematically investigate both site and situation to demonstrate attributes of location and design that shape accessibility outcomes, and may take the form of street-level photographs, aerial photography, three-dimensional models, or interactive mapping. D. Collaborate with practitioners and decision-makers on assessment of accessibility-based evaluation. The utility of approaches described above will be assessed through interviews and focus groups with practitioners. This will require designing written, web-based, or in-person presentations of the approaches to accessibility-based evaluation that will enable practitioners to understand and respond meaningfully to the suggestions. This will afford the project the opportunity to refine the approaches to enhance their relevance and implementability.
Implementation (actual, not anticipated)	

Web Links Reports Project website 	