

UTC Project Information	
Project Title	Investigating the Determining Factors for Transit Travel Demand by Bus Mode in U.S. Metropolitan Statistical Areas (Former title: Analysis of Transit Travel Demand Change in U.S. Metropolitan Statistical Areas Between 2000 and 2010 Using Two-Stage Least Squares Regression)
University	San José State University Mineta National Transit Research Consortium
Principal Investigator	Bhuiyan M. Alam, Ph.D.
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Funding Source(s) and Amounts Provided (by each agency or organization)	Research and Innovative Technology Administration University Transportation Centers Program (\$30,435) California Department of Transportation Office of Research—MS42 (\$30,435)
Total Project Cost	\$60,870
Agency ID or Contract Number	DTRT12-G-UTC21
Start and End Dates	June 2012 – May 2015
Brief Description of Research Project	Proper understanding of the nature of the transit travel demand is at the heart of transportation policy making and the success of transit systems. Unfortunately, most of the existing studies have focused on a single or few transit systems or metropolitan areas to analyze the determinants of transit travel demand. This study is an attempt to investigate the determining factors for transit travel demand by bus mode in the United States at Metropolitan Statistical Areas in 2010. The multiple regression results indicate that seven internal factors, which the transit managers and operators have control over, and only one external variable, namely gas price, show to have significant impacts on transit travel demand by bus mode. Transit supply, transit fare, average headway, transit coverage, service intensity, revenue hours, and safety are the contributing internal factors for transit demand by bus. This indicates that the mechanisms to increase the transit ridership patronage are in the hands of the transit authorities, which further indicates that they do not need to depend on outside world to attract more ridership but can do so by adjusting the influential internal factors that are under their control.

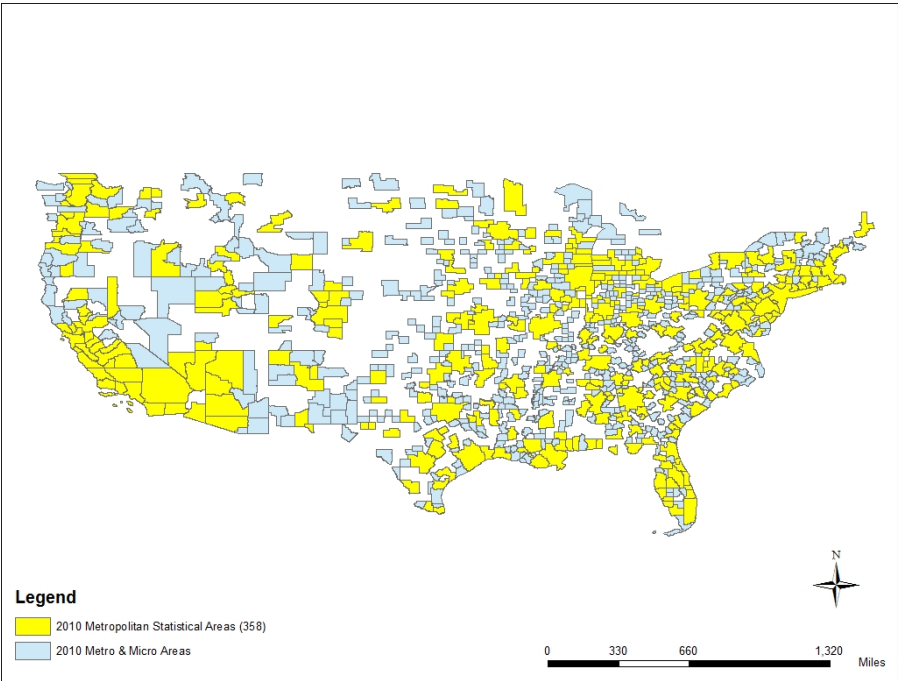
Describe Implementation of Research Outcomes (or why not implemented)

Alam, Bhuiyan. "Investigating the Determining Factors for Transit Travel Demand by Bus Mode in U.S. Metropolitan Statistical Areas." Presentation at the 22nd International Seminar on Urban Form Conference, Rome, Italy, September 22, 2015. [UTC funds not used to support international travel.]

Alam, Bhuiyan. "What Determines Travel Demand by Bus in the United States? A National Study at MSA Level." Presentation at the Association of Collegiate Schools of Planning Conference, Houston, TX, October 22, 2015.

Alam, Bhuiyan. "Impacts of Urban Form on Travel Demand by Bus Transit in the United States: A National Study at Metropolitan Statistical Area Level." Presentation at the 2016 Urban Affairs Association Annual Conference, San Diego, CA, March 16, 2016.

Place Any Photos Here



MSAs Included in this Study

Impacts/Benefits of Implementation (actual, not anticipated)

Web Links

- Reports
- Project

Final report (MNTRC Website):
<http://transweb.sjsu.edu/project/1101.html>

Website	
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