



UTC Project Information – Cooperative Mobility for Competitive Megaregions (CM²)

Project Title	Develop a GIS-based Megaregion Transportation Planning Model
University	Texas Southern University
Principal Investigator	Qisheng Pan, Bumseok Chun
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Funding Source(s) and Amounts Provided (by each agency or organization)	U.S. Department of Transportation: \$109,662 Texas Southern University: \$65,537
Total Project Cost	\$175,199
Agency ID or Contract Number	UTDOT Grant number: 69A3551747135
Start and End Dates	5/1/2018 - 11/30/2020
Brief Description of Research Project	Create a model that will address planning issues within a metropolitan area.
Describe Implementation of Research Outcomes (or why not implemented)	Dr. Pan published an article titled "Comprehensive Geographic Information Systems" with other researchers in the Elsevier Journal in 2018. Dr. Pan also presented this research at Wuhan University in China and Cambridge University in the U.K. in the summer of 2018. The presentations were titled "The Development and Research and Applications of Regional and Urban Smart Models." Dr. Pan also presented "Problems and Opportunities for Urban Growth and Transportation Development at the Southwest Jiaotong University in July of 2018 in Chengdu, China. Dr. Pan also presented at a PhD forum at Tongji University in China in July 2018 and presented "The Driving Forces Explaining Change of employment Centers in Large US Metropolitan Areas: A Comparison Study of Houston and Dallas." Finally, Dr. Pan's research was published with other researchers in the 2018 Urban Studies Journal. The article is titled
Impacts/Benefits of Implementation (actual, not anticipated)	The leader of this research team has developed and maintained the Southern California Planning (SCPM), which is a Lowry-type spatial planning model combining the functions for economic impact analysis, spatial allocation, and transportation modeling. The SCPM
Web Links (to reports, project website, etc.)	https://www.sciencedirect.com/science/article/pii/B9780124095489100284?via%3Dihub