



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

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| Project Title | Develop a GIS-based Megaregion Transportation Planning Model |
| University | Texas Southern University |
| Principal Investigator | Qisheng Pan, Bumseok Chun |
| PI Contact Information | pan_qs@tsu.edu, bum.chun@tsu.edu |
| 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 Metropolitain 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 |