



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

Project Title	Patterns and drivers of urban expansions in the Texas Triangle: Case study of the Austin metropolitan region
University	University of Texas at Austin
Principal Investigator	Ming Zhang, Jiani Guo (GRA)
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Funding Source(s) and Amounts Provided (by each agency or organization)	U.S. Department of Transportation: \$30,000 Other: \$30,000 from UTC matching funds: Snell Endowment, Center for Sustainable Development, School of Architecture, UT Austin Other:
Total Project Cost	\$60,000
Agency ID or Contract Number	US DOT Grant Number: 69A3551747135
Start and End Dates	October 1, 2020-September 30, 2023
Brief Description of Research Project	The proposed project conducts a case study of the Austin, TX region, examining the magnitude, direction, and spatial structure of urban expansions and correlating the expansion patterns with major transportation projects (e.g., SH-130 and Red Line commuter rail). The study will perform spatial analysis and growth modeling combining remote sensing data with census information. The main data sources for the project include 2001-2016 land use/land cover imageries available from National Land Cover Database (NLCD) and the US population censuses. Findings of the study are expected to inform public policy-making and strategic transportation investments for sustainable regional development.
Describe Implementation of Research Outcomes (or why not implemented)	Project in progress. No outcomes have been realized.
Impacts/Benefits of Implementation (actual, not anticipated)	Project in progress. No impacts have been realized.
Web Links (to reports, project website, etc.)	

[Place Any Photos on Remaining Pages]