CM² Cooperative Mobility for Competitive Megaregions	**UTC Project Information – Cooperative Mobility for Competitive Megaregions (CM²)**
Project Title	The Effect of Shadow Evacuation in Megaregion Disasters: A Pilot Study
University	Louisiana State University
Principal Investigator	Brian Wolshon (with Nelida Herrera)
PI Contact Information	brian@rsip.lsu.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	U.S. Department of Transportation: $125,400 Louisiana State University: $63,750
Total Project Cost	$189,150
Agency ID or Contract Number	UTDOT Grant number: 69A3551747135
Start and End Dates	6/1/2017 - 5/31/2018
Brief Description of Research Project	This research assesses the effect of shadow evacuation in megaregion disasters. The evacuation of areas that do not receive an official evacuation notice is referred to as shadow evacuation. Shadow evacuation could increase the overall clearance times of declared evacuation zones (Weinisch and Brueckner, 2015) which is important to be considered during the emergency planning process.
Describe Implementation of Research Outcomes (or why not implemented)	Following items were produced as the outcome of this research: 1. Murray-Tuite, P., Wolshon,B. and Matherly D., "Evacuation and Emergency Transportation - Techniques and Strategies for Systems Resilience" TR NEWS 311, Sept - Nov 2017, pp. 20 – 26 2. Lindell, M., Murray-Tuite, P., Wolshon, B., and Baker, E. Large-Scale Evacuation: The Analysis, Modeling, and Management of Emergency Relocation from Hazardous Areas. 1st Edition, 2018, Publisher: CRP Press. 3. Wolshon, B., Herrera, N. Effects of Shadow Evacuation on Megaregion Evacuations. Poster presentation at the Transportation Research Board Annual Meeting 2019, Washington, DC

Impacts/Benefits of Implementation (actual, not anticipated)	This research sought to enhance the understanding of the effects of these conditions by analyzing shadow evacuations and their impact on regional traffic operations and more broadly use traffic simulation to examine traffic in megaregions.
Web Links (to reports, project website, etc.)	1. https://www.louisberger.com/resources/evacuation-and-emergency-transportation-techniques-and-strategies-systems-resilience 2. https://www.crcpress.com/Large-Scale-Evacuation-The-Analysis-Modeling-and-Management-of-Emergency/Murray-Tuite-Lindell-Wolshon-Baker/p/book/9781482259858