

## Center for Advanced Multimodal Mobility Solutions and Education

UTC Project Information – CAMMSE @ UNC Charlotte	
Project Title	Innovative Countermeasures for Reducing the Truck Waiting Time at
	Marine Terminals
University	Texas Southern University
Principal Investigator	Yi Qi, Mehdi Azimi and Qun Zhao
PI Contact Information	(713)-313-6809 / <u>qiy@tsu.edu</u>
Funding Sources and	The University of North Carolina at Charlotte: \$55,640
Amount Provided (by	Texas Southern University: \$30,770
each agency or	
organization)	
Total Project Cost	\$86,410
Agency ID or Contract	
Number	
Start and End Dates	10/01/2017 - 09/30/2019
Brief Description of	As international trade and freight volumes increase, there is a
Research Project	growing port congestion problem, leading to long truck waiting lines
	at US marine terminals. The proposed project is to investigate
	innovative countermeasures for reducing truck waiting times at
	marine terminals. For this purpose, this research will first identify the
	potential countermeasures that can be used for reducing truck
	waiting times at marine terminals. Then, a method for quantitatively
	estimating terminal gate truck waiting times and their cost will be
	developed, and the effectiveness and benefits of the identified
	countermeasures will be assessed. After that, interviews of marine
	terminal officers will be conducted to further investigate the



## Center for Advanced Multimodal Mobility Solutions and Education

	feasibility and implementation barriers of different types of
	countermeasures. Based on the results of this study, the most
	feasible and cost-effective countermeasures for reducing truck
	waiting times at marine terminals will be recommended and the
	method for estimating their impacts/benefits under different
	scenarios will be provided.
Describe Implementation	
of Research Outcomes	
(or why not	
implemented)	
Place Any Photos Here	
Impacts/Benefits of	
Implementation (actual,	
not anticipated)	
Web Links	https://cammse.uncc.edu/sites/cammse.uncc.edu/files/media/CAM
Reports	MSE-UNCC-2018-UTC-Project-Information-14-Qi.pdf
• Project website	https://cammse.uncc.edu/sites/cammse.uncc.edu/files/media/CAM
	MSE-UNCC-2018-UTC-Project-Report-14-Qi-Final.pdf