

Project Information Form

Project Title	Spatial Dynamics of the Logistics Industry and Implications for Freight Flows
University	USC
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Funding Source(s) and Amounts Provided (by each agency or organization)	Caltrans \$54,375
Total Project Cost	\$54,375
Agency ID or Contract Number	DTRT13-G-UTC29
Start and End Dates	August 15, 2014 to August 14 2015
Brief Description of Research Project	<p>This project will examine changes in the spatial pattern of warehousing and distribution (W&D) activities and analyze the implications of these changes on freight flows. W&D activities are decentralizing in response to rising land values and scale economies. Ultimately, we seek to understand whether these spatial shifts result in more truck VMT, or whether the efficiencies gained by larger scale operations allow offsetting savings, such as enabling the use of larger trucks or achieving higher average load factors. Understanding how these shifts are affecting truck VMT is essential for developing effective policies for managing truck VMT and their associated emissions. However, there is no good source for tract or zone level truck flow data, or for intra-metropolitan truck origin-destination data. As a first step we focus on accessibility. From the literature on passenger travel, we know that travel distance is related to accessibility. Thus changes in accessibility to goods markets should be a proxy for goods travel distance, all else equal. We will examine changes in the spatial pattern of warehousing and distribution activities using NETS establishment level panel data for California, from 2000 to 2010. We anticipate comparing three cross sections (2000, 2005, and 2010) using the Los Angeles, San Francisco, Sacramento, and San Diego CMSAs</p>

	as our case study areas.
Describe Implementation of Research Outcomes (or why not implemented) (Attach Any Photos)	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links <ul style="list-style-type: none">• Reports• Project website	Ncst.ucdavis.edu/usc-ct-to-004/