

**Project Information Form**

Project Title	Exploring Unintended Environmental and Social-Equity Consequences of Transit Oriented Development Using a Spatial Economic Land Use and Activity-Based Microsimulation Travel Model
University	UC Davis
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Funding Source(s) and Amounts Provided (by each agency or organization)	Caltrans \$91,829
Total Project Cost	\$91,829
Agency ID or Contract Number	DTRT13-G-UTC29
Start and End Dates	September 1, 2014 to August 31, 2015
Brief Description of Research Project	<p>Communities throughout the U.S. are pursuing land use and transport plans that locate high density, mixed use development near high quality rail and bus transit service (TODs). These plans are intended to meet important community goals, such as economic development, reduced congestion, greater transport choice, and improved public health. In addition, they are critical to managing the growth in vehicle travel necessary to meet greenhouse gas (GHG) reduction goals. Increasingly, however, there is concern that these plans may have unanticipated consequences that are inequitable and could undermine GHG reductions. The proposed research will use the official Sacramento PECAS land use model and activity based microsimulation travel demand model to simulate the effect of plans on rents, location of low income households, and travel (mode, trips, auto ownership, and distance) over time throughout the region and, more granularly, those directly attributable to TODs in the region. Different scenarios will be simulated and the effectiveness of measures to redress negative outcomes will be tested. The MOVES vehicle emissions model and an economic lifecycle</p>

	assessment model will be used to examine GHG emissions. The study will provide important policy insights, evidence, and practical guidance on a pressing subject that has received little attention.
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"> <li>• Reports</li> <li>• Project website</li> </ul>	<a href="http://ncst.ucdavis.edu/project/ucd-ct-to-006">http://ncst.ucdavis.edu/project/ucd-ct-to-006</a>