

<b>UTC Project Information</b>	
Project Title	Estimating Transit Route OD Flows in the Presence of Multiple Latent Flow Patterns (final title, changed from "Integrating Multiple Sources of Data for the Estimation of Transit Origin-Destination Flows")
University	NEXTRANS  The Ohio State University
Principal Investigator	Rabi Mishalani, Associate Professor, Department of Civil, Environmental and Geodetic Engineering, The Ohio State University, mishalani@osu.edu
PI Contact Information	mishalani@osu.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	\$99,000 OSU ODOT-\$44,000 OSU - \$55000 \$125,700 NEXTRANS
Total Project Cost	\$100,000
Agency ID or Contract Number	DTRT12-G-UTC05
Start and End Dates	10-01-2015
Brief Description of Research Project	<p>This study will take advantage of large datasets the NEXTRANS investigators have amassed on two transit systems: OSU's Campus Area Bus Service (CABS) as part of OSU's Campus Transit Lab (CTL) and the Central Ohio Transit Authority (COTA) as a result of completed and ongoing projects. On CABS, extensive APC, onboard survey, and mobile device tracking data are available. On COTA, extensive APC, onboard survey, and AFC data are available. Thus, each system has three separate sources of data the integration of which will be considered as part of this study. More reliable transit OD flow information has the potential to enhance the quality of transit planning and operations control functions that rely on such information. Moreover, the more accurate route-level estimates are expected to improve the quality of the network-level OD flow estimates, where several methods rely on route-level OD flows as inputs.</p> <p>In addition to supporting practical service planning and design applications, the developed integration methods are expected to establish new foundations for researchers to build on in addressing questions related to integrating transit data from multiple sources, whether for the purpose of OD flow estimation</p>

	<p>or other uses of the data. In light of the data quality analyses and their implication on OD flow estimation, the results of this study could inform the design refinements of the next generation of transit data collection and fare collection services such that the overall quality of the data is improved, whether in the context of the primary use of the data or its secondary use, for example for OD flow estimation.</p>
<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	
<p>Web Links</p> <ul style="list-style-type: none"> <li>• Reports</li> <li>• Project website</li> </ul>	