UTC Project Information	
Project Title	**Methods for improving bicycle sharing system balance**
University	NEXTRANS The Ohio State University
Principal Investigator	Morton E. O'Kelly, Professor of Geography, and Director, CURA, OSU,
PI Contact Information	okelly.1@osu.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	$50,000 OSU $50,000 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	Local transport systems provide a useful laboratory for transport studies. For example colleagues in CEEGS have worked extensively on the OSU Campus Bus System (CABS), while the Center for Urban and Regional Analysis (CURA) has an emerging interest in many aspects of innovative modes of transport including car and bike sharing. This project proposes to add a new area to this suite of ideas, one that grows from an increasing interest in novel systems for sustainable transportation. In this case the City of Columbus is home to a new bike sharing system, called CoGo. Because the system is still small (30 stations), it has not yet encountered the balance and growth issues that have hampered other larger systems. For this reason an initial study of the re-balancing of the bikes at the stations, the station size and location represent a suite of interdependent problems that are amenable to basic GIS and optimization approaches. Recent news and publicity has made it abundantly clear that large systems have enormous challenges in the area of bike rebalancing. The project proposes research that is needed to combine data from the system with optimization techniques including linear programming) to design low cost strategies that will ensure operational efficiency within the parameters that are established by the local bike share system (CoGo).

Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	

Web Links
   • Reports
   • Project website	