

UTC Project Information	
Project Title	Development of New Performance Metrics and Operational Strategies Based on Bus Location and Passenger Count Data
University	University of Puerto Rico at Mayagüez
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Funding Source(s) and Amounts Provided (by each agency or organization)	TransINFO UTC: \$65,556 UPRM Match: \$50,254
Total Project Cost	\$115,810
Agency ID or Contract Number	Fed. Contract Number: R881384
Start and End Dates	9/30/13 -9/30/17
Brief Description of Research Project	The transit industry in several cities, including the San Juan Metropolitan Area, has relied on limited, general, and aggregate measures for reporting performance to external funding and regulatory agencies. This implies the use of relatively small samples, with findings that had to be extrapolated to the whole system. However, with the implementation of new technologies in the transit industry, it is now possible to measure the performance of a transit system not with sample data but with a more complete set of data for the entire system to be used for improved levels of service and presents an opportunity for preventive maintenance to improve the mechanical condition of the vehicles and avoid costly repairs. Passenger counts and load diagrams will also be used, not only to develop performance metrics, but to establish new strategies such as new express routes or the addition of new units in heavily used corridors.
Describe Implementation of Research Outcomes (or why not implemented)	
Place Any Photos	

Here	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links <ul style="list-style-type: none">• Reports• Project website	http://www.buffalo.edu/transinfo/Research/Busperformancemetrics.html