

Project Information Form

Project Title	Performance Measurements of Transportation Systems based on Fine-Grained Data Collected by AVI and AVL Systems
University	Florida International University (FIU) in collaboration with University of Central Florida (UCF)
Principal Investigator	Mohammed Hadi, Ph.D., PE (Dr. Haitham Al-Deek from UCF is Co-PI)
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Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT (NCTSPM UTC): \$200,000 (\$100,000 for FIU and \$100,000 for UCF) FDOT matching of \$100,000 City of Orlando matching of \$144,600. UCF provide additional matching of \$62,119
Total Project Cost	\$506,719
Agency ID or Contract Number	
Start and End Dates	6/1/2012-11/31/2013
Brief Description of Research Project	Performance measurement is an important component of the planning and operation of transportation systems. Reflecting the increasing realization of this importance, Map-21 legislation has put a very strong emphasis on performance measurements, requiring states and local agencies to establish and achieve performance targets. Current deployments of AVI technologies have focused on estimating travel time as an alternative to utilizing point detectors. These deployments have largely not considered the additional information gained by having individual vehicle trajectories based on AVI data. The goal of this project is to investigate the opportunities for more detailed performance measurements of transportation systems based on AVI, AVL, and APC data and the utilization of the derived measures for active performance management of the transportation systems.
Describe Implementation of Research Outcomes (or why not implemented) (Attach Any Photos)	None yet. Research in progress.

Impacts/Benefits of Implementation (actual, not anticipated)	None, yet. Research in progress.
Web Links <ul style="list-style-type: none">• Reports• Project website	None.