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NJTPA Asset Management Model

Presenter

Justin Furch

Software Development Supervisor

Michael Baker Jr., Inc.

jfurch@mbakercorp.com

Co-Presenter

The North Jersey Transportation Planning Authority, Inc. (NJTPA) contracted to develop a county-level Geospatial Information System (GIS) asset management model for cataloging, maintaining and managing a variety of physical assets (e.g. signs, roads, rail, bridges, pavement, guard rail, etc.) within the region. The model includes an enterprise GIS database, which is initially seeded with roadway data from the New Jersey Department of Transportation (NJDOT) and various county inventory projects. A standardized GIS database is included for the 13-county region to cohesively catalogue the physical assets. In order to facilitate data asset inventory and maintenance, the system includes the development of mobile optimized web application for field collection/inspection, a web application for maintaining and analyzing the inventory, and a tool to assist in cost-effective decision making. Participants attending this presentation will be shown how the challenges of combining these data sets were overcome, and benefits this system will provide to NJTPA and their associated counties in maintaining their roadway assets, while maximizing their capital investments through targeted maintenance strategies.