

### 3.4.3

## GIS Applications in Support of Bus Operations and Customer Information

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In NJ TRANSIT, GIS Datasets are linked to Bus Schedule and Bus Stop Inventory (BSI) datasets within an Oracle environment to create database views that serve as primary input for a variety of operation-based systems. GIS data, incorporating attributes linked from Schedule and BSI information, serves as primary input for AVL (Automated Vehicle Location) programs that have been recently implemented at NJ TRANSIT. One example is the Automated Voice Annunciation (AVA) program initiated in 2008.

The same dataset that supports the AVA program also serves as primary input for NJ TRANSIT customer information trip itinerary applications on [www.njtransit.com](http://www.njtransit.com) and Google.

Coordination of the Schedule, BSI and GIS datasets is essential to maintaining up-to-date, accurate information across the three-state NJ TRANSIT service area. This session will summarize the activities required to maintain these datasets as well as provide an overview of how the data is implemented in the AVA and customer information programs.