Miami-Dade Enterprise Asset Management System

Background
With over 2,300 staff, the Miami-Dade Water and Sewer Department (WASD) maintains more than 7,700 miles of underground water lines as well as about 6,200 miles of sewer lines. Annually, WASD provides drinking water and wastewater services to more than 2.3 million residents and thousands of visitors.

Challenge
In 2007, WASD recognized the need for a more efficient method of managing its data, assets and systems. WASD hoped that re-engineering and transforming its business processes and information systems would provide more effective and sustainable service for customers.

Solution
The project began with an extensive field inventory and GIS data collection effort. An initial 9-square-mile pilot area eventually encompassed 444 square miles.

Woolpert then implemented an enterprise asset management system (EAMS) to support the county's water and sanitary sewer infrastructure management functions. The large asset management project used a multi-phase approach including planning, data conversion, system configuration and testing, application development, systems integration and training.

The team also upgraded the browser-based data analysis and distribution applications and developed an automated map plotting application.

Outcome
The deployment of the EAMS helped WASD identify and transform operational and process enhancements likely to support the effective, uninterrupted delivery of services.

Benefits
Implementing EAMS software and best practices improved WASD's ability to:
- Meet and track regulatory compliance
- Monitor asset management
- Generate more timely and substantive enterprise-wide reports

CLIENT
Miami-Dade Water and Sewer Department

LOCATION
Miami-Dade County, FL

CHALLENGE
- Inefficient data management system
- Outdated business process and information systems

SOLUTION
Implement enterprise-wide AMS

SERVICES
- Application development
- GIS

TECHNOLOGY
- ArcGIS Server

BENEFITS
- Regulatory compliance
- Better asset management
- More timely and substantive reporting