



Smart Waste Management System

A leading IT and Telecommunications solution provider in Ghana were developing a solution for property tax management and waste management for a city. To develop an effective tracking mechanism for waste management, there was a need for accurate data about waste accumulation and disposal. Considering the difficulties in developing the solution due to unsynchronized data and non-availability of property data, the Company decided for a GIS based application.

The requirement involved identifying the GIS service gaps; automating their business processes by developing strategies for effectively aligning the solution to their day to day activities. After the detailed need assessment, Genesys offered to provide following three services –

- Creation of base map using High Resolution Satellite Imageries of 50 cm resolution and 360-degree Panoramic Imagery that illustrates the ground reality
- Developing an enterprise web-based application to be used by the Project Stakeholders, Regional Managers/ District Collectors for comprehensive control over the entire project life cycle. The solution comprises of distinct modules for –
 - Tax Notice Distribution and Tracking
 - Agent & Bin Tracking
 - Vehicle Routing
 - Customer & Property Data
- Developing a tablet-based solution to be utilized by the Field Data Collection Agents to acquire the requisite Property and Household Data.

Key benefits:

- Improved project strategies and project coordination
- 'Offline Tablet Mapping' - A first of its kind solution that assists in acquiring authentic data by the field agents
- Availability of digital data in real-time
- Reports and dashboard aiding quick decisions