



Bahrain Enterprise Asset Management System (BEAMS)

Industry: Utilities - Government

Location: Manama, Bahrain

Summary

Bahrain's Ministry of Works is a federal government Ministry, responsible for public works in the Kingdom of Bahrain. Their primary responsibilities include roads, drainage, and government buildings. Bahrain's MOW wanted to tie their four primary data repositories together - the Asset Register (Infor), Document Repository (IBM), Project management information system (Oracle), and GIS (Rolta / Esri). They faced a challenge in maintaining an asset ID through all these systems, and avoiding time wastage during the manual entry of cross reference tables. Rolta's core solution involved the unique implementation of Infor and OnPoint, integrated and working as a single system. This solution also included CAD import functionality, allowing existing CAD files to be used with no change to the workflows. In addition, the tool also assigns asset IDs and maintains them throughout the system, ensuring the user experiences only one integrated system.

Details of Rolta's solution

The configuration of Infor and OnPoint to work together, addressed the following asset life cycle elements:

- Planning
- Design
- Construction
- Operation & Maintenance
- Retirement
- Monitoring (dashboards with KPIs)

Further, the CAD import solution validates that drawings conform to the MOW format, extracts the project name and drawing extents, validates that the drawing extents are within the project extents, extracts the assets, generates new asset IDs, appends each asset to the correct GIS layers and tables in the database, applies the correct attributes, appends related tabular data to correct tables, registers drawings with the document management system, and updates all PM records.

Key Solution Innovation

Development of CAD import capabilities

Impact

The solution provided by Rolta addressed the management of the full life cycle of an asset, and its implementation allowed the Bahrain MOW staff to keep with their normal workflows, while removing the labourious tasks involved in maintaining asset tables and IDs throughout the four data stores. Rolta's OnPoint also provided a secure, configurable web-GIS access point for this data.

About Rolta

At Rolta, we envision a better future, and then design technology to create that future. Our innovative IT solutions span various verticals, including Utilities, Transportation, Process, Power, Banking and Insurance. Through our cutting edge software for mapping and earth sciences, we also provide a complete array of solutions for Defense and Homeland Security, including C4ISTAR information systems, Military Communications, Digital Soldier and Vehicle Systems. Our team diligently works to exceed our customers' expectations, and has successfully executed strategic projects in over 40 countries.