



## Municipal Spatial Solutions Infrastructure (MSSI)

**Industry:** Municipal - Government

**Location:** Abu Dhabi, United Arab Emirates

### Summary

The Department of Municipal Affairs, Abu Dhabi, was established in 2007, replacing the Department of Municipalities and Agriculture, with the main focal point for executing all municipal planning and public works projects in Abu Dhabi. The Land and Property Management sector of the DMA co-ordinates GIS and property data management. Decision makers in Abu Dhabi wanted the ability to view all data, regardless of what GIS platform and database is being used, on one consistent portal. In addition, decision makers wanted to search across variably formatted data, and analyze it to be able to make decisions. The organization faced an additional challenge as geospatial data is independently captured and maintained by Abu Dhabi Municipality, Al Ain Municipality and Al Gharbia Municipality for their respective regions. The Abu Dhabi municipality uses MapInfo and Oracle Spatial, Al Ain municipality utilizes GeoMedia and Oracle Spatial, and Al Gharbia uses Esri technology for its geo-database. Rather than attempting to force each municipality to migrate over to a single format for GIS data and applications, Rolta's approach was to use GeoSpatial Fusion and OnPoint™, to tie together these disparate data sources without causing a change in the business processes of each municipality.



The Municipal Spatial Solutions Infrastructure Project has provided a spatial representation of the entire municipal infrastructure development process aimed at achieving the Abu Dhabi vision 2030. This is a real business support tool saving resources and cutting waste.

#### Yousif Amin Yousif

Director,  
Municipal Planning,  
Emirate of Abu Dhabi

#### Details of Rolta's solution

Rolta seamlessly brought together the existing databases and GIS systems of each municipality, enabling dissemination to external stakeholders using a single view. Specific tasks executed by Rolta also helped provide the following:

- Multilingual support
- Data exchange
- Geospatial systems support
- Administration tools
- SharePoint web controls
- Modern and legacy database access
- Three-tier server infrastructure

#### Key Solution Innovation

Seamless integration of databases without different municipalities having to migrate to common system

#### Impact

Rolta's solution helped create a combined Emirate wide view for stakeholders, combining content from all three municipalities. Municipalities continue to operate as they always had. There was no additional cost incurred in migrating away from their original systems, nor was there any need to go through a long campaign of convincing people about the benefits of a change in technology.

#### 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.