

Reference projects

„Mapping and Geodata Licensing Project“

Client:

Government of Sharjah, Centre for Geospatial Information, Sharjah, U.A.E.

Short description

The client requested a web-based solution in order to provide authorities, business structures and private users with up-to-date geodata of Sharjah. Therefore a new base GIS of the Emirate of Sharjah had to be created with accuracies of 25 cm (urban areas) and 40 cm (desert areas). More than 170 different feature classes were required. The main topographic data were acquired during 2 digital photoflight campaigns. These data were processed and then completed by a comprehensive field survey for attribute data collection.

The web-based data licensing application was developed by the project partner INTERGRAPH Middle East.

Personal participation

- preparation of bid documents
- project management, including:
 - o aerial survey planning,
 - o acquisition of flight permissions
 - o preparation of technological descriptions for every project task
 - o subcontractor relations,
 - o permanent client contacts,
 - o training and supervision of field teams (local subcontractor)
 - o data QC
 - o project presentations
- practical project implementation, including:
 - o development of project technology
 - o GIS data implementation
 - o GPS based ground control point survey
 - o Client staff training

Equipment used

Aerial survey equipment Digital Mapping Camera DMC (Z/I Imaging),
AEROCNTROL (IGI GmbH)

Ground survey equipment TRIMBLE 4000, TRIMBLE 4700

Aerotriangulation software MATCH AT, BINGO

Stereophotogrammetric workstations IMAGE Station (Z/I), SUMMIT (DAT/EM)

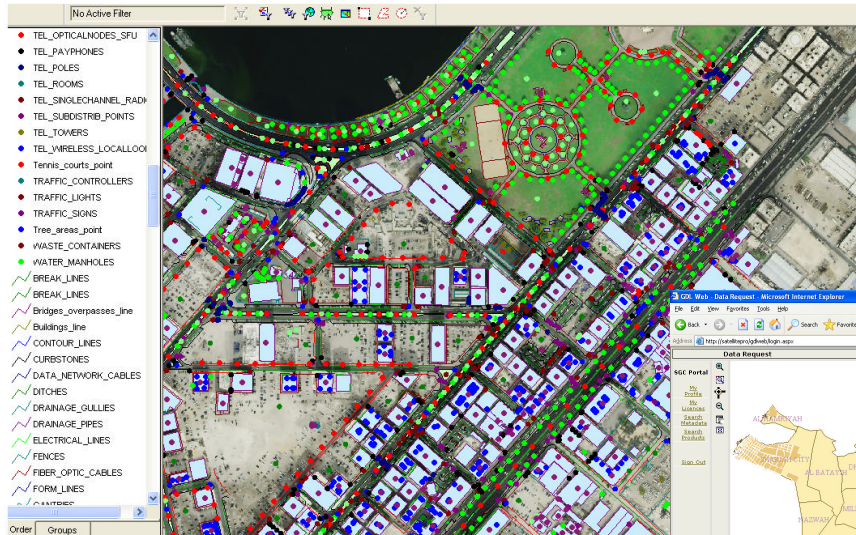
CAD software MicroStation, AutoCad

DTM software MATCH T,

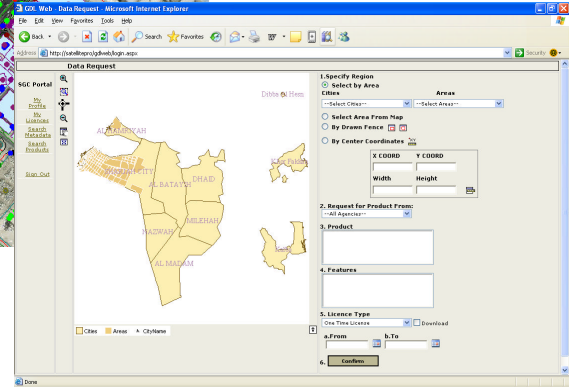
Orthophoto processing software ORTHOVISTA

GIS software ArcVIEW, ArcPAD, ArcGIS, Geomedia, ERDAS Imagine

MS Project, MS Excel, MS Word, MS Access, MS PowerPoint



Screenshot of the final GIS database



Screenshot of the web based data distribution application