GEOSPATIAL INITIATIVES
By Fujairah Municipality
THE EMIRATE OF FUJAIRAH
Introduction

- Fujairah is one of the seven members of U.A.E. the other members are Abu Dhabi, Dubai, Sharjah, Ras Al Kaimah, Ajman Um Al Quain.
- Population is 210,000 with growth rate of 6%, in an area of 1450 km².
- Terrain: 70-75% are mountains and only 25-30% of land is available for proper land use.
- It is one of the biggest bunkering port in the world competing with Rotterdam & Singapore).
- Fujairah Municipality has initiated following Geospatial Technology Projects to fulfill the mission towards the citizen:
  1. Creation of Geospatial Data Center
  2. Smart Fujairah Mohammed Bin Zayed City, Smart City 1100 houses
  3. Masterplan for Fujairah Emirates – Fujairah 2040
  4. Continues Observation Reference System
  5. Addressing system called Makani based on MGRS coordinates.
  6. BIM
Emirate of Fujairah

- Fujairah Emirate is administered through two major Municipalities:
  - Fujairah Municipality
  - Dibba Al Fujairah Municipality
In 2013, Fujairah decided to produce new maps as existing maps were outdated.

By the end of 2013, all the towns and villages were mapped with a scale of 1:1,000 and CI = 0.5 m covering an area of 320 sq km.

The administrative boundaries of each Town / Village with Blocks and Sectors were fixed.

Series of Automation Tools were developed to create Site Plans and Milkiya etc through GeoServ and stored within Land Records database.

A Mobile Application has been created to help the clients to select the plot, called Smart Fujairah.
Workflow

Plan Drawing

Automation Tools

Migrated to GeoDatabase

Final Site Plan / Milkiya

Create New / Search / Browse Owner History
Digital Map – Siteplan

Fujairah Municipality

Milkiya

Residential

Residential (Sheikh Zayed Housing Program)
Digital Map – Siteplan

Commercial

Residential / Commercial

Industrial
Data Center

Data Sharing

- Dibba Municipality
- Statistics Center
- Other Government

Fujairah Municipality

- Survey / Planning
- Building Department
- GIS Center
- Administrative Control

Public Access

Map Access

Fujairah Data Center

Fujairah Municipality
Fujairah Municipality won the award for best government services via mobile phone in 2014.
Smart City Initiative

- Adhering to Local Culture
- First Initiative: Mohammed Bin Zayed City
- 1,100 Houses in First Phase
Mohamed Bin Zayed City

Legend
- Commercial plot
- Community Centre
- Community Facility - Festival Ground
- Community Facility - Majlis
- Community Facility - Nursery
- Community Facility - Theater
- Education
- Government - Ambulance-Civil Def-Police
- Government - Municipality Offices
- Government Reserve
- Mosque Jamee
- Mosque Masjid
- Parks
- Phase 2
- Reserved service corridor
- Residential - Widow & Divorcee
- Retail
- Telecommunications - Etisalat exchange
- Transportation - parking lot
- Emirati Villas
- Utility
Master Plan 2040

FUJAIRAH 2040
FRAMEWORK PLAN

Stage 1
Vision

Stage 2
Data Research & Analysis

Stage 3
Planning Guidelines

Stage 4
Framework Plan Options

Stage 5
Framework Plan & Structure Plans

Stage 6
Implementation Plan, Development Guidelines

Fujairah Municipality
Virtual Reference Station Systems (VRS)

- In order to increase the accuracy of survey work by GPS, to less than a one cm accuracy, a network of GPS reference stations are being established.
- Fujairah Municipality is establishing 5 stations in first phase and 3 stations in the second phase.
- With this Fujairah Emirate will be covered by a network of 8 stations to improve the GPS accuracy.
Makani

• Fujairah is planning to implement Mobile based Addressing System called Makani.
• Accuracy of 1 Meter
• Every Door has a Unique 10 Digit Number (Nothing and Easting)
• Coordinate System is based on MGRS
Conference was organized by Fujairah Municipality on BIM in 2015 and building information Modelling workshop was recently conducted to train our builders and legislation for BIM is under preparation.
The Pride of Fujairah

Sheikh Zayed Mosque - Fujairah

Sheikh Zayed Mosque - Dibba

Bidyah Mosque
Oldest Mosque in UAE (about 600 Years old)

Fujairah Castle

Bithna Fort

Wahala Fort
The Pride of Fujairah

- Bull Fighting
  Unique to Fujairah

- Wadi Wurayah
  First Mountain Protected Area in UAE (2009)

- Al Hilal City
  (Under Construction)

- Friday Market

- Heritage Village

- Dibba Theater
  International Melodrama Festival Every 2 Years
  One of the Best cultural carnival as per DG of ITI & UNESCO
Thank You

Excellence in the Municipal Work

Fujairah Municipality
http://www.fujmun.gov.ae/