Oman NSDI Supporting Economic Development

2017

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Director of Spatial Data
Directorate General of NSDI, NCSI
"It's critical to make correct decisions the first time to optimize the Investments especially during tough times. GIS provides economic developers and Decision makers a framework for decision making, which helps minimize risk and maximize value."
How GIS can support Oman Economic Diversification Strategy 2040

• Needs Branding for Country
• Grow reputation as a destination using Maps
• Easy Information on Tourism Destinations including Locations
• Easy Navigation to the Tourist Attractions
• Services Locations (Hotels, Restaurants, Café, Shopping Malls, Pharmacy etc.)
• Effective Route plan to cover maximum destinations
• National Addressing System
• Site Selection for doing Business based on location demographics and consumer pattern
• Support Decision Makers with appropriate Information including the Location
• Authentic dependable GeoSpatial data from Data Owners
• Support for Planning – Urban, Regional, Smart Cities
A smart city is an urban development vision to integrate multiple Information and Communication Technology (ICT) and Internet of Things (IoT) solutions in a secure fashion to manage a city's assets.

**Efficient**
Optimized use of city resources

**Seamless**
Integrated daily life services

**Safe**
Anticipate risks and protect people and information

**Impactful**
Enriched life and business experiences for all
Smart City – Vision for Cities of the Future

Smart Services (Permitting, Licensing, Inspection, & Zoning)

Smart Services

Smart Emergency & Fire Services

Smart Traffic

Smart Transportation

Smart Public Works

Smart Water

Smart Social Services

Smart Parks

Smart Culture (Arts, Libraries, Open Spaces)

Smart Economy

Smart Emergency and Health Services

Smart Administration

Smart Police

Smart Economic Development

Smart Utilities

Smart Grid

Smart Schools

Smart Education

Smart Hospitals

Smart Diet

Smart Health

Smart Fitness

Smart Tourism

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A centralized information system based on geospatial technology is a powerful framework which provides location information and GeoEnabled Applications for Economic development.
Oman NSDI – Who we are?

“Oman National Spatial Data Infrastructure (ONSDI) is a governmental initiative; conceived to provide GeoSpatial infrastructure to coordinate, facilitate, and support sharing and utilization of Geospatial Information across all Government entities in the Sultanate of Oman.

Our Vision

“Build a standardized Geo-Spatial Infrastructure to facilitate the access to an organized, standardized, and up-to-date sharable geospatial information for enabling a high quality location based Government services and solutions”
Our Mission

Location Enablement of Government Services

Provide the necessary infrastructure for the exchange of spatial data and services

Building capacity through specific training

Provide consultancy on any cross-government geospatial data requirements

Establish Data Exchange mechanism and online access

Standards, Policies and Technical Specification for Geospatial Information

Coordination the geospatial data production program to reduce costs and avoid duplication of efforts, time

Raise Awareness, promote use of Location Intelligence

NSDI

“Support Government & stakeholders’ collaboration for better location based decisions and services”
Our Role – Provide the Missing Link

- Standardization
- Quality and compatibility checks and Correction if required
- Storage
- Sharing through online platform

NGDS Data Inputs

Partnering with NSDI as stakeholder
National GeoSpatial Standards

- ONSDI is developing National GeoSpatial Data Standards
- ONSDI in collaboration with NSA launched ONGD14 as official Datum for Oman
- ONSDI Launched Metadata Standards and Metadata Editor in Jan’2017
Our Initiatives – Unified National Basemap

• ONSDI launched National basemap in Jan’2017
• All Government Entities will align their GeoSpatial Data to National Basemap

• National Basemap is available for download to Government and Semi Government entities and as a WMS service to Public

• National Basemap Service can be used directly in applications, analysis and data creation a backdrop in any GIS environment
Tour Oman

- Award Winning Tourism oriented application
- 500+ Tourist Attractions
- 22000+ Service Locations
- Navigation Enabled
- Launched in 2014
- 8000+ downloads since its launch
- 200,000+ queries for services
- Rated 4+ on average by users
- Enhanced Features
  - Plan trips
  - Ratings and Favourites
  - Social Networks
  - VGI
- Available for iOS and Android.
Our Initiatives

Collaboration with Information Technology Authority for Geo Enabling eTransformation Projects

GeoEnabled Web Application for Decision Support System for Investors, Government & Private Businesses
Unified GeoSmart Permit System for issuing all types of permits in collaboration with Municipalities
Unified Addressing System

Objective

- The Project aims to implement a Unified Addressing system across Sultanate of Oman
- All buildings, residents, offices will be provided with an Address which will be available through a centralized Addressing Database
- Facilitates interoperability across multiple government departments

Address: 32b, Mazoun Street, Apartment 4
Al Mawalah South
As Seeb
SULTANATE OF OMAN

Applications

Signage

Logical/sequential layout

Hierarchic structure
Importance to Location Intelligence

Oman NSDI is the official provider of National GeoSpatial Information

- Unified National Basemap
- National GeoSpatial Database (NGDB)
- Unified Addressing System

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GeoEnable National Projects e.g. Smart Permits, Project Monitoring System

WMS / WFS Services

NSDI GeoSpatial Capacity Building Program

GeoEnabled Public Apps
THANK YOU