

المركز الوطني  
للإحصاء  
والمعلومات

سلطنة عمان



NATIONAL CENTRE  
FOR STATISTICS  
& INFORMATION

SULTANATE OF OMAN

# Oman NSDI

## Business Values and Future Directions

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# *Presentation Outline*



- *Geospatial Maturity*
- *Current Challenges*
- *NCSI's Role - Providing the Missing Link*
- *Delivering NSDI Value*

# Geospatial Maturity in Oman

- Early Adopters in Middle East – Started using GIS in 1989
- Many Government organizations have invested in GIS
- Rich Geo-Spatial Data available
- Some applications has been built by organizations to serve their business needs
- Some organizations integrated GIS in business workflows
- Some Community service applications has also been developed
- GeoSpatial maturity differs from organization to organization



# Current Challenges



- Rich data available but
  - Scattered with Individual Organizations
  - Diverse Structure, Coverage Areas and formats
  - Vendor / Technology Dependent
  - No regular Updates
  - Absence of Sharing
  - Not Accessible
  - Not Interoperable
  - Diverse Quality
- Lack of Business Integration of Location information for Decision Makers
- High Implementation and Maintenance costs
- Technical Skills Shortage
- Lack of National Standards and Policies



# What is the Solution ??

## Collaboration



# NCSI's Role



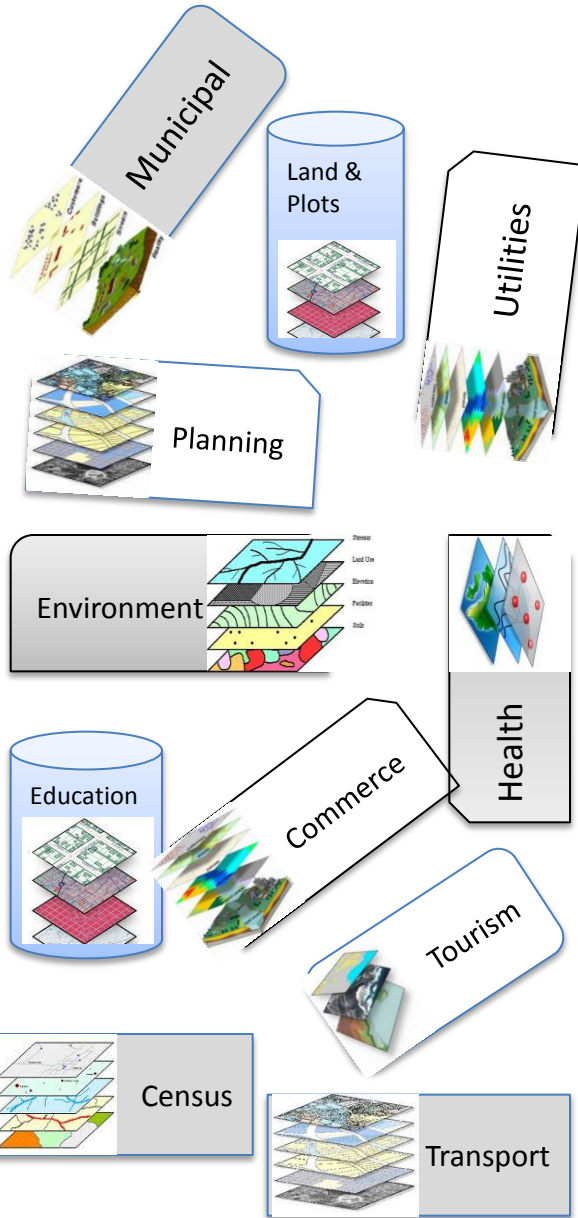
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- Mandated to be facilitator
- Coordinate efforts from Oman Geospatial Community
- Collect Geospatial Data and make it Interoperable
- Define Standards in Coordination
- Implement Cost Saving Measures
- Provide Consultancy for Business Integration
- Implement Data Sharing mechanism
- Comprehensive Skills Development Programs
- Community Service Initiatives

## Providing the Missing Link

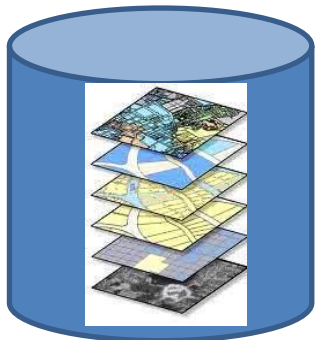


# Providing the missing Link



NGDS Data Inputs

## NCSI



Partnering with NSDI as stakeholder

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

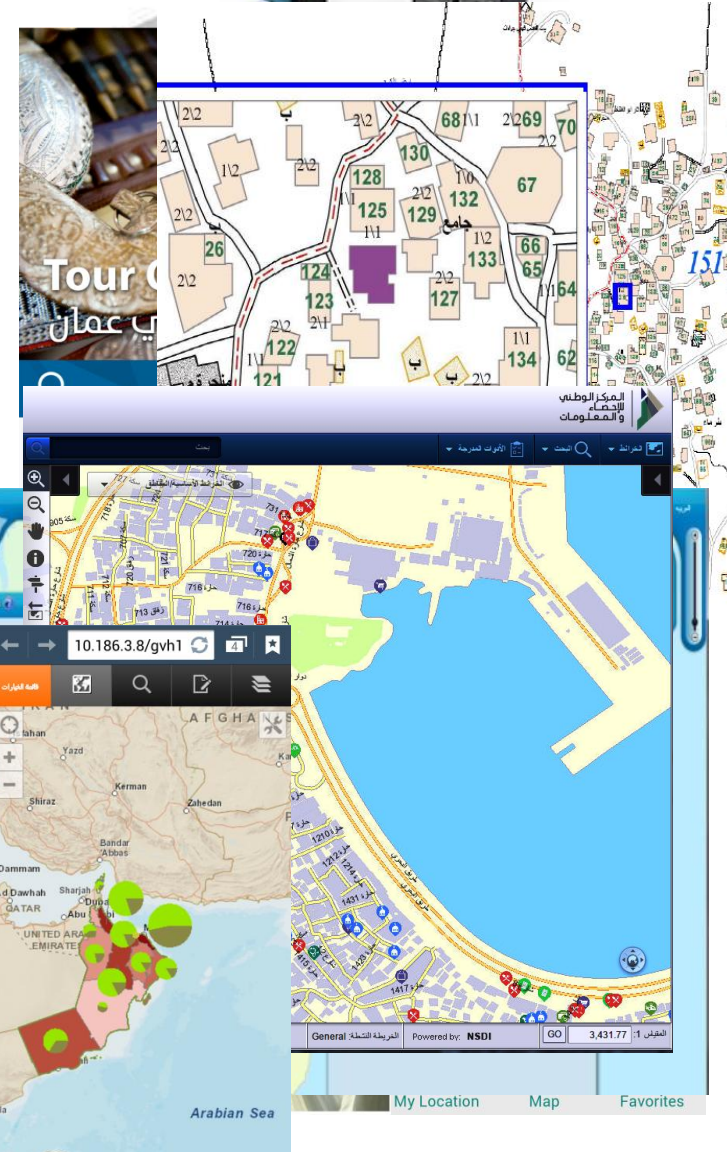


# NCSI Initiatives so far..



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- Establishment of Specialized NSDI Core team and Basic IT Infrastructure
- Global Technical Partnership with OGC (Open Geospatial Consortium)
- Government to Government Services (G2G)
  - Sharing the Census 2010 data from long time
  - GeoPlatform – Data Sharing Portal
  - Nefethah on Oman
  - Nationwide Orthophoto Project Data available
- Government to Community Services (G2C) Applications
  - Developing Navigation enabled Smart app for community
  - NCSI Geo, Tour Oman
  - Multiple application in cooperation with other ministries under discussion / specification





# Key Projects – near future



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## G2C Services

1. Smart Geo-Enabled Community Applications

## G2B Services

1. Location enabled eNOC - Tassareh
2. Oman Location Based Real Estate Application

## G2G Services

1. Location Intelligence Support for Demographic Registration
2. Unified Addressing system for Sultanate of Oman
3. Location based DMSS for Sustainable Development
4. Monitoring Natural Change and Urbanization
5. Supporting Emergency Response Planning for Public Safety





# NSDI Benefits



## Financial Benefits



## Strategic Collaboration



## Social Benefits



## Environmental Benefits

- Cost Savings and Cost Avoidance
- Standardized, Policy based, updated National GIS data
- Build data once and utilize for many applications.
- Time savings through information sharing
- Better efficiencies, minimize duplication
- Capitalizing on the technical capabilities and expertise by collaboration
- Efficient and secured GIS data discovery and access
- Support sustainable economic, social, and environmental development
- Technical Capacity Building, Awareness
- Decision making enhancement and cross disciplinary collaboration
- Making a difference, Better services for Omani Citizens



**Oman National Spatial Data Infrastructure**

**Let us build it  
Together**

**and benefit with the power of  
collaboration**