Mongolia: National Geospatial Data Infrastructure

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Integrated Geospatial Information Framework

- United Nations 11th Tranche Development Account
  - Project 1819D “Strengthening Geospatial Information Management in Developing Countries towards Implementing the 2030 Agenda for Sustainable Development” in Burkina Faso, Ethiopia, Fiji, Mongolia, Nepal, Kingdom of Tonga
- WB Technical Assistance to the Government of Mongolia for Geospatial information Management
  - National Spatial Data Infrastructure for Mongolia: Socio Economic Impact Analysis
    - within the World Bank Urban, Resilience and Land Global Practice (GURL), Global Land and Geospatial Unit.
- NSDI Implementation in Mongolia
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Project 1819D “Strengthening Geospatial Information Management in Developing Countries towards Implementing the 2030 Agenda for Sustainable Development”

- UN-GGIM Project 1819D “Strengthening Geospatial Information Management in Developing Countries towards Implementing the 2030 Agenda for Sustainable Development”

Component 1

- Project Execution Activities
  1. Project Initiation
  2. Pre-needs Assessment
  3. Project Scoping and Scheduling

Component 2

- Information Gathering Activities and Analytical Exercises
  - Assessment and Analysis

Component 3

- Planning Activities
  - Country-Level Action Plan
• WB Technical Assistance to the Government of Mongolia for Geospatial information Management
  
  • National Spatial Data Infrastructure for Mongolia: Socio Economic Impact Analysis
  
  • interviews with more than 25 stakeholder organizations, including Mongolian Government Ministries, agencies, State-owned enterprises and private sector companies,
  
  • the team identified over 50 use cases where there are demonstrable benefits from the implementation of GIS technology requiring foundation geospatial data
  
  • Calculated socio-economic benefits and investment plan

NSDI Action plan is being prepared
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**NSDI related activities: Fundamental Geospatial Data Service via GEOPORTAL**

- Public base topo map
- Land parcels
- Transportation network
- Boundary/functional areas
- Geodetic reference system
- Buildings and settlements
- Water
- Population
- Land use and cover
- Geographic names
- Elevation and depth
- Address
- Geology and soil
- Orthophotos
- Historical, cultural sites
- Facility/infrastructure
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NSDI related activities: *Fundamental Geospatial Data Service via GEOPORTAL*

geoportal.nsd.gov.mn
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NSDI related activities: Land administration system E-GAZAR

www.egazar.gov.mn

- **Planning**
  - Integrated Land Planning – citizen and stakeholder involved

- **Land Market**
  - Transparent – open land marketing

- **Land Valuation and Taxation**
  - Reliable land valuation based on environment and suitability analysis and e-taxation

- **Cadastre**
  - Land Rights and Registration

- **Land Monitoring**
  - Land Use Monitoring
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NSDI related activities: Legal and policy

• Revised and redrafted SPATIAL DATA INFRASTRUCTURE LAW submitted to Cabinet of Gov. of Mongolia
  • SDI and GGIM principles
  • Fundamental data collection, identify – single source
  • Geospatial information: timely, reliable, accessible
  • No duplicate effort
  • Common platform for share, distribute, and exchange GI: GEOPLATFORM
  • Coordination among stakeholder: National SDI Commission/committee

• NSDI ACTION PLAN

Authorized  Timely  Innovative  Citizen-centered  Availability
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**NSDI related activities: GEO-STANDARDS**

- Identifying data specification for each data theme.
- Adopting ISO TC211 standards
  - to enable different information systems to communicate and exchange data
  - Integrate with other dataset, statistics

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**NSDI related activities: COVID 19 RESPONSE**

Source: National Emergency Management Agency

- The first case of COVID-19 was confirmed on March 11, 2020.
- Total number of confirmed cases in Mongolia reached 313 as of today.
- Ministry of Health (National Center for Communicable Diseases (NCCD)) holds daily regular press briefing updates on the latest COVID-19.
- Disaster Spatial Information System run by NEMA
  - to support COVID-19 cases and response/recovery plans
  - To map of the coronavirus infection situation.

Ministry of Health Dashboard
https://covid19.mohs.mn/
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NSDI related activities: COVID 19 RESPONSE
geoportal.nsdi.gov.mn

For an emergency response drill
District online maps

National Emergency Management Agency
General Agency for Specialized Inspection
Ministry of Health
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Challenges

- **GEOSPATIAL STANDARDS**
  - Permanent-mandated NSDI body
  - Legal framework
  - Human resource
- **Cross-sector cooperation**
  - Public-private partnership
  - Finance and investment
  - Technological advances-inno