



# **Segment V. Operationalizing the Integrated Geospatial Information Framework in Mongolia**

Agency for Land Administration and management, geodesy and  
cartography

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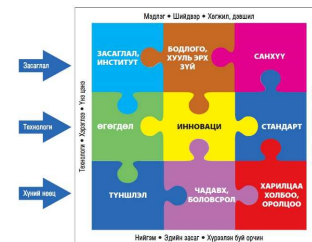
# Integrated Geospatial Information Framework in **Mongolia**

## Introduction



## 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 (GPURL), Global Land and Geospatial Unit.
- NSDI Implementation in Mongolia

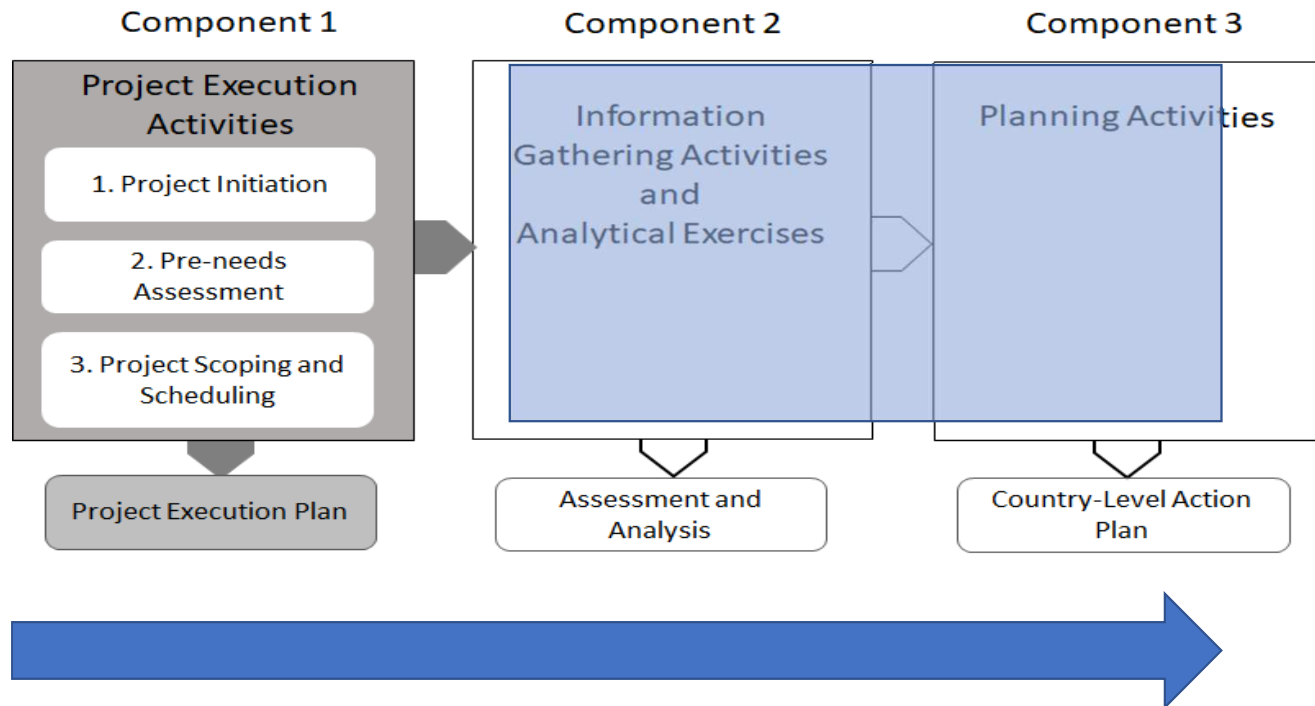


# Integrated Geospatial Information Framework in **Mongolia**



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”*

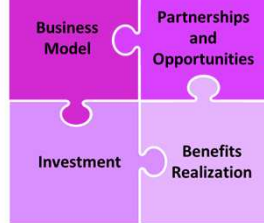


# Integrated Geospatial Information Framework in **Mongolia**



## National Spatial Data Infrastructure for Mongolia: Socio Economic Impact Analysis

- 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



The economic contribution

Year	Study	Relates to:	Country	GDP Impact
2008	ACL Tasman	Impact of modern spatial information technologies	Australia	0.6-1.2%
2008	ACL Tasman, SKM & Ecological Associates	GI contribution to productivity	New Zealand	0.6%

Тоон орон зайн мэдээлэл Монголын дотоодын нийт бүтээгдэхүүнийг (ДНБ) 60 хувиар буюу 200тэрбум төгрөгөөр жилд өсгөх боломж байхын зэрэгцээ Цахим Засаглалыг дэмжиж, үнэ цэн бүхий ажлын байр бүтээх боломж байна.

2013	Osra	Geospatial Industry as % of GDP	Global	0.2%
2014	Indecon	GI Contribution to the economy	Ireland	0.33%
2015	Hickling Arthur Lewis, Aul Allen Consulting, Fujitsu & Consulting/Pharos	Contribution of geospatial industries and GI to GDP	Canada	1.1%

# Integrated Geospatial Information Framework in **Mongolia**



NSDI related activities: **Fundamental Geospatial Data Service via GEOPORTAL**

[geoportal.nsd.gov.mn](http://geoportal.nsd.gov.mn)

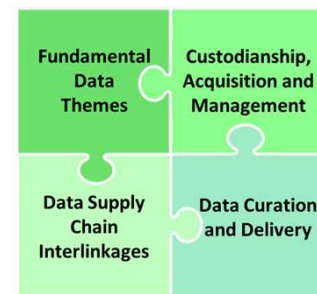
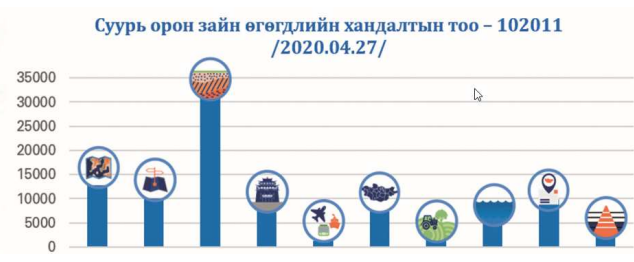
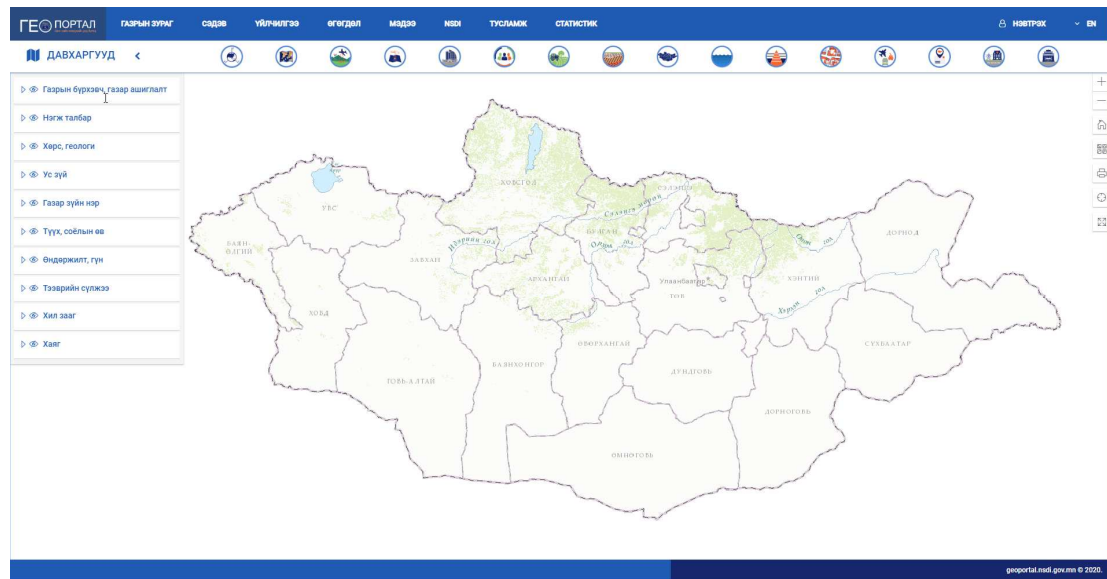


# Integrated Geospatial Information Framework in **Mongolia**



NSDI related activities: **Fundamental Geospatial Data Service via GEOPORTAL**

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# Integrated Geospatial Information Framework in Mongolia



## 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



Authorized



Timely



Innovative



Citizen-centered



Availability

# Integrated Geospatial Information Framework in **Mongolia**

NSDI related activities: **Land administration system E-GAZAR**

[www.egazar.gov.mn](http://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

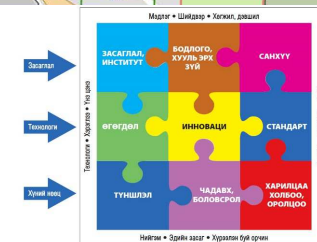
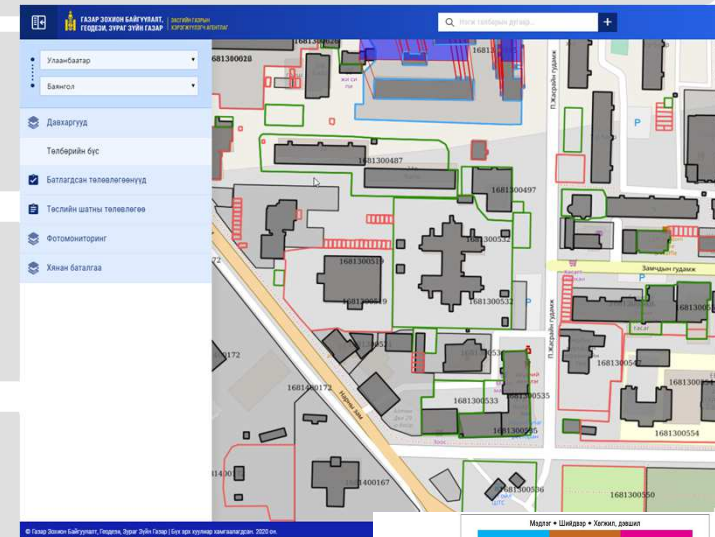


LAND RIGHTS AND REGISTRATION

LAND MONITORING



LAND USE MONITORING





# Integrated Geospatial Information Framework in Mongolia



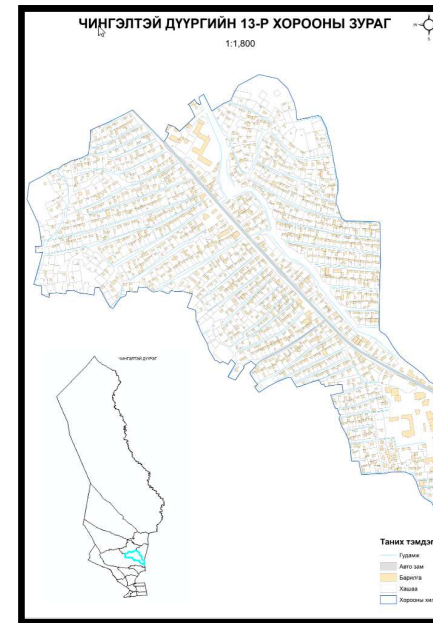
NSDI related activities: **COVID 19 RESPONSE**

[geoportal.nsd.gov.mn](http://geoportal.nsd.gov.mn)

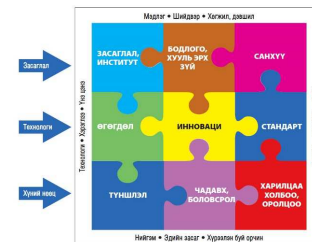
For an emergency response drill



District online [maps](#)

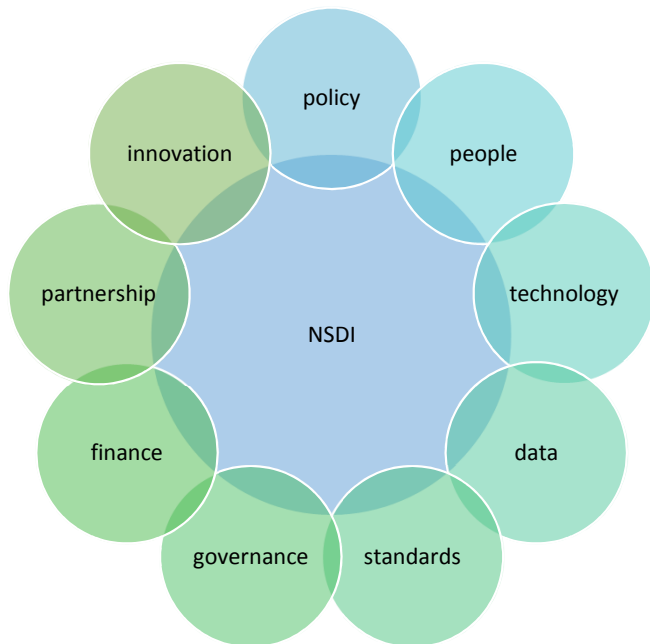


District paper [maps](#)



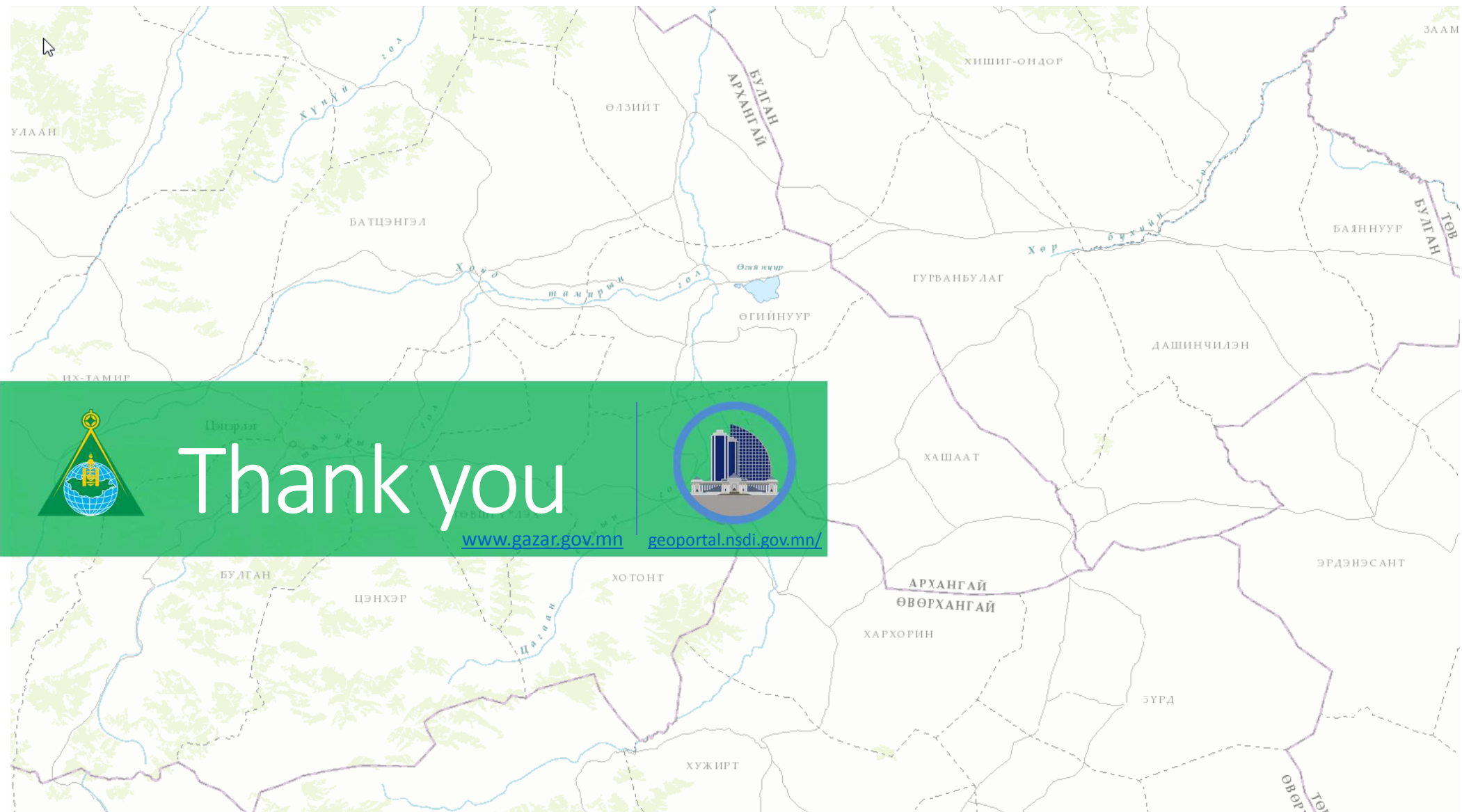
# Integrated Geospatial Information Framework in **Mongolia**

## Challenges



- STANDARDS
- Permanent-mandated NSDI body
- Legal framework
- Human resource
- Cross-sector cooperation
- Public-private partnership
- Finance and investment
- Technological advances-inr
  
- New parliament election





# Thank you

[www.gazar.gov.mn](http://www.gazar.gov.mn)

[geoportal.nsd.gov.mn/](http://geoportal.nsd.gov.mn/)

