

Expert Consultation and Meeting on Enhancing Geospatial Information Management Arrangements and Accelerating Implementation of the Sustainable Development Goals, and the Sub-regional Workshop on the United Nations Integrated Geospatial Information Framework (UN-IGIF) for Central Asia, South Asia, and neighboring countries

Implementing geospatial strategies: challenges and opportunities

Astana, Kazakhstan
15-19 September 2025



Enhancing Geospatial Information Management arrangements Accelerating the Implementation of the SDGs

Sub-regional Workshop on UN-IGIF for the Central Asia, South Asia and Neighboring Countries



MONGOLIA

GENERAL AGENCY FOR LAND ADMINISTRATION, GEODESY AND CARTOGRAPHY



IKHBAYAR.TS Head of Land management division



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Where is your country today in enhancing the management and use of geospatial information?

- Established the Integrated Land Management System, a unified system for land cadaster, mapping, planning, and monitoring.
- Developed and approved 18 types of geo-spatial data standards.
- Established the Geoportal platform for public use.
- Drafted the Law on Spatial Data Infrastructure.



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Where is your country today in enhancing the management and use of geospatial information?

In 2021, 18 data standards for the National Spatial Data Infrastructure were developed and approved.



Based on the documentation of the INSPIRE system—the European Union’s spatial data infrastructure for coordinating environmental policies and activities—and the ISO 19100 series of standards, Mongolia has developed and approved regulations for the land relations, construction, geodesy, and cartography sectors. These regulations are established with reference to the structure, content, and classification of fundamental spatial data for cadastral and topographic mapping.

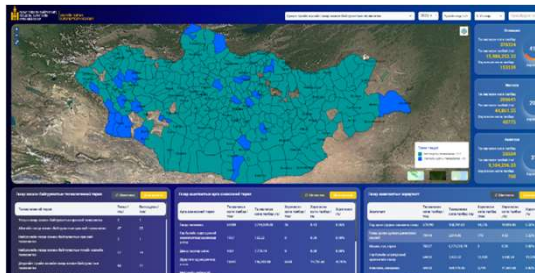
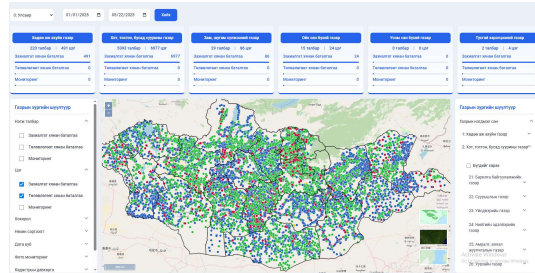
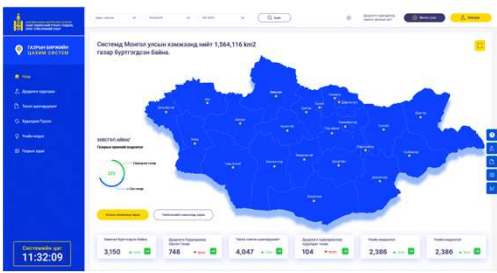
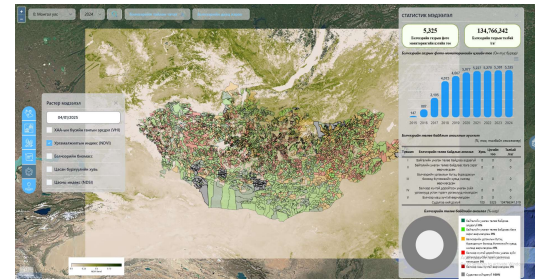
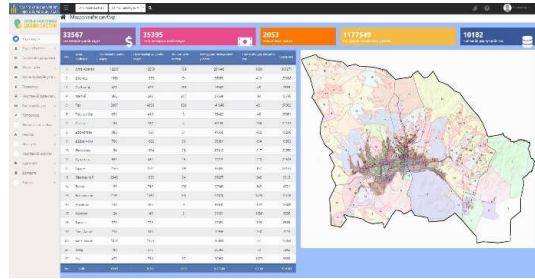


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UNIFIED LAND FUND ADMINISTRATION ELECTRONIC SYSTEM



GEODESY AND CARTOGRAPHY

BASELINE SURVEY

ADDRESSES

MONITORING

PLANNING

LAND EXCHANGE

LAND APPRAISALS

CADASTRE

URBAN CADASTRE

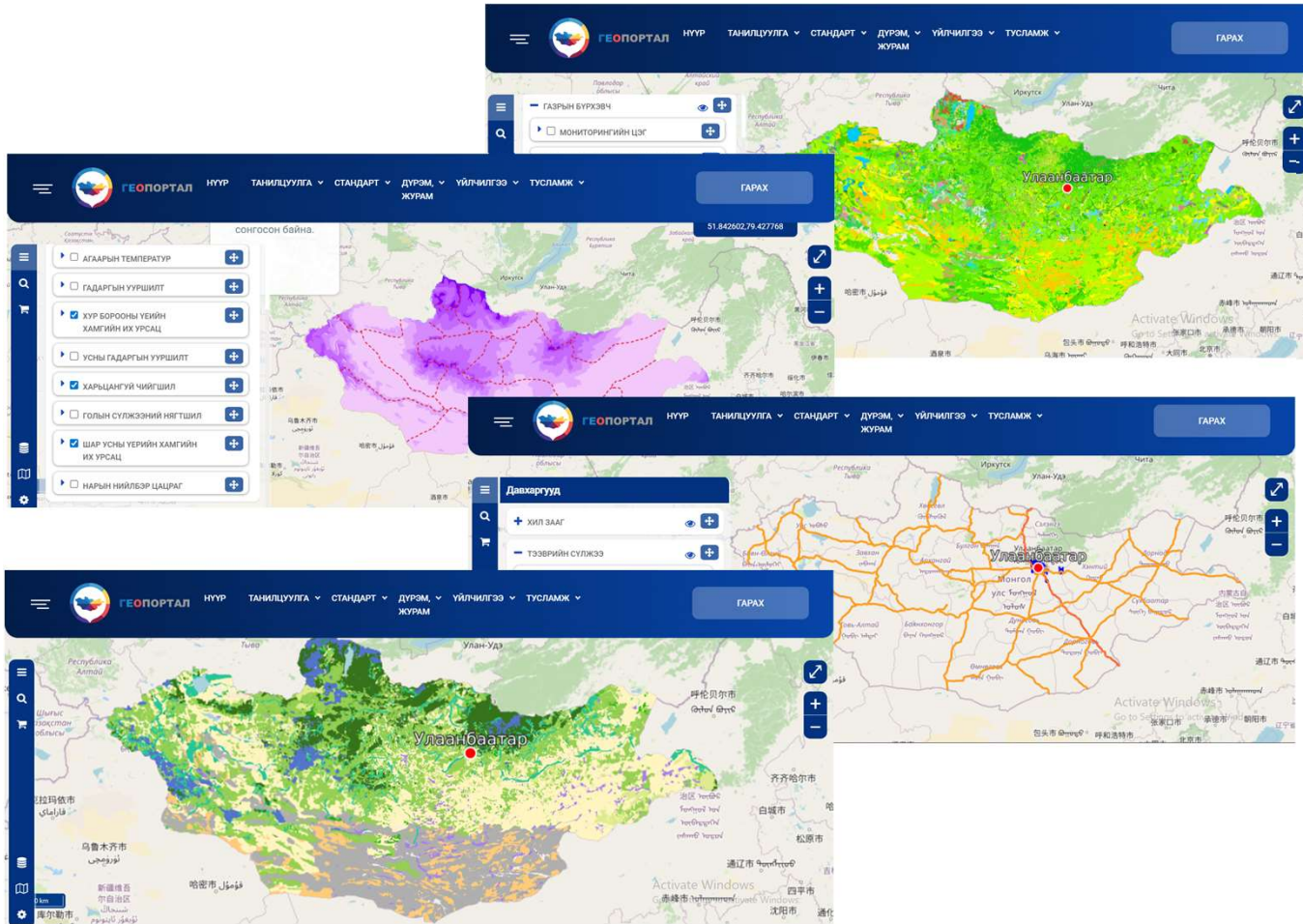


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GEOPORTAL



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Where does your country aim to be in the next five years?

- Establish a legal and regulatory framework for spatial data infrastructure.
- Ensure coordination among spatial data producing organizations and integrate databases.
- Improve the quality of spatial data and ensure compliance with standards.
- Link statistical data with spatial information.
- Increase the use of spatial data and create opportunities for its application in policy-making, planning, and decision-making.



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What do you see as the main challenges in reaching this “ideal” situation within the next five years?

- Inadequate legal and regulatory framework.
- The sectors are not fully digitalized and use outdated software.
- Financial and Resource Constraints
- Lack of capacity and human Resources
- Limited opportunities for free data exchange, and transparency of information is not ensured.



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What potential opportunities could help address some or all of these challenges?

- Establish legal framework for geospatial data governance
- Collaborate with international organizations
- Strengthen human resource capacity
- Increase public awareness
- Sustainable funding
- Investment in modern infrastructure and technology



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How familiar are you with UN-GGIM, the UN-GGKIC, the IGIF, and the CAP?

The Director of the General Agency for Land Management, Geodesy, and Cartography serves as a member of the UN Asia-Pacific Committee of Experts on Geospatial Information Management, and the Agency regularly participates in and collaborates with the Committee's scheduled meetings.

UN-GGIM-AP

| | | |
|--|-----------------------|------------------------------|
| Thirteenth Plenary Meeting of UN-GGIM-AP | 26-29 Nov 2024 | New Delhi, India |
| Twelfth Plenary Meeting of UN-GGIM-AP | 6 -10 Nov 2023 | Bali, Indonesia |
| Eleventh Plenary Meeting of UN-GGIM-AP | 14 Oct 2022 | Hyderabad, India |
| Tenth Plenary Meeting of UN-GGIM-AP | 02 & 03 & 04 Nov 2021 | Virtual, hosted by Indonesia |
| Ninth Plenary Meeting of UN-GGIM-AP | 03 & 05 Nov 2020 | Virtual, hosted by Indonesia |
| Eighth Plenary Meeting of UN-GGIM-AP | 03 - 05 Nov 2019 | Canberra, Australia |

High level meeting and sessions

| | | |
|---|-------------------|---------------|
| The First Plenary Meeting of the High-level Group of the Integrated Geospatial Information Framework was held in New York | 26-28 Apr 2024 | New York, USA |
| Thirteenth Session of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) | 2 - 4 August 2023 | New York, USA |



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How familiar are you with UN-GGIM, the UN-GGKIC, the IGIF, and the CAP?

Following the UN-GGIM recommendations on IGIF, our country identified the scope of national spatial data and developed and approved an action plan for establishing the National Spatial Data Infrastructure in 2021.



The United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) identified 14 Global Fundamental Geospatial Data Themes.

18 Fundamental Geospatial Data Themes to be Adopted Nationwide in Mongolia



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CAP of Mongolia

An action plan for establishing the National Spatial Data Infrastructure has been developed, and the establishment of the infrastructure consists of following contents.

1. Establishing the legal foundation for developing the NSDI
2. Creating an integrated data repository and infrastructure
3. Strengthening capacity and developing human resources
4. Expanding international cooperation

The Action Plan for Developing the National Spatial Data Infrastructure was approved in 2021.

| № | Арга хэмжээ | Хэрэг үр дүн | Шалгуур үзүүлэлт | Хяналтын ажлын байгууллага | Санхүүгийн хэмжээ (сая ₮) | Тасва (сая ₮) | Хэрэгжих хугацаа |
|---|---|---|---|----------------------------|--------------------------------------|--------------------------------------|----------------------|
| 1 | Өгөгдлийн үйлчилгээний системийг байгуулах | Орон зайн өгөгдлийг бүртгэх, хянах, захирагчийн үйлчилгээний системийг байгуулах | Орон зайн мэдээллийн системийг бүртгэх, хянах, захирагчийн үйлчилгээний системийг байгуулах | ГЗБГЗСГ | 174 | 174 | 2021 он, II улиралд |
| 2 | Өгөгдлийн стандартыг байгуулах | Орон зайн мэдээллийн өгөгдлийн тавих зарчмыг шаардлагын судалгаа өгөгдлийн стандартыг байгуулах | Орон зайн мэдээллийн суурь 18 өгөгдлийн стандартын багц бичиг байгуулах | ГЗБГЗСГ СХЗГ | 103 | 103 | 2021 он, III улиралд |
| 3 | Өгөгдлийн стандартын төлөвлөгөөнийг хэрэгжүүлэх | Стандартыг суурь өгөгдлийн бүрдүүлэгч байгууллагад хэрэгжүүлэх | Стандарттай холбоотой мэдээллийг дамжуулах байгууллагад хэрэгжүүлэх | ГЗБГЗСГ НСА | 337 | 337 | 2021 он, IV улиралд |
| 4 | Орон зайн мэдээллийн системийг байгуулах | Орон зайн мэдээллийн системийг байгуулах, үйлчилгээний системийг байгуулах | Орон зайн мэдээллийн системийг бүртгэх, хянах, захирагчийн үйлчилгээний системийг байгуулах | БХБХ ГЗБГЗСГ | а. 227 б. Хэрэгжүүлэх в. 35000 | а. 227 б. Хэрэгжүүлэх в. 35000 | 2022 он, IV улиралд |



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What kind of support would you like to receive from UN-GGIM, UN-GGKIC, or other partners?

- Share experiences among member countries
- Strengthen human resource capacity
- Introduce new technologies



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THANK YOU FOR ATTENTION



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