

Enhancing spatial data capabilities in Armenia

“During 2024, the Cadastre Committee implemented a series of priority measures aimed at advancing the spatial data sector in the Republic of Armenia. In the context of the full implementation of the National Spatial Data Infrastructure (NSDI), the integration processes of sectoral/thematic spatial data play a significant role. Looking ahead, the continued development of the NSDI will be supported by a new five-year strategy, set to be finalised in 2025, which will further refine the sector’s framework for data creation, management, and integration. With these ongoing initiatives, the Republic of Armenia is poised to enhance its spatial data capabilities, promote better decision-making, and contribute to sustainable development across various sectors.”

Suren Tovmasyan
Head, Cadastre Committee,
Republic of Armenia

Visualization of some of the new
geospatial data themes integrated into
the national geoportal.

Electronic service delivery platform.

Visualization of a geographic
object passport.

Armenia is enhancing its spatial data capabilities by further improving the national geoportal and continued development of the National Spatial Data Infrastructure (NSDI).

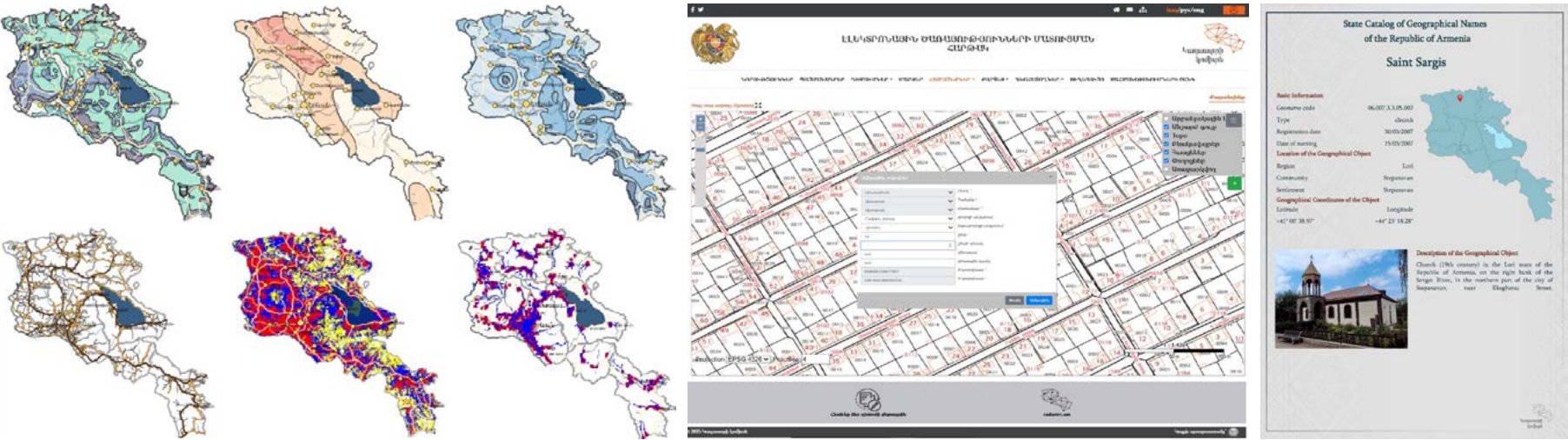
The Cadastre Committee worked in collaboration with the Ministry of Environment, the Ministry of Territorial Administration and Infrastructure, the Ministry of Internal Affairs, and the Ministry of High-Tech Industry to successfully integrate their official datasets in the geoportal using web-based cartographic services. This enables seamless access to geospatial data and ensures interoperability across various platforms. As a result, users now have access to more than 20 geospatial data themes. These include nature reserves, national parks, natural monuments, road networks, mineral water sources, hydraulic infrastructures, power lines, landslide zones, avalanche-prone areas, and mobile network coverage.

Implementation of a new multifunctional national geoportal, offering advanced capabilities for the integration and interoperability of sectoral thematic spatial data and comprehensive suite of geospatial tools and services, also began in 2024. The initiative, under the Asian Development Bank grant framework, enhances data access, analysis, and visualisation.

Technical specifications and national compliance standards ensure the quality of NSDI data. The Cadastre Committee has therefore initiated the correction and accuracy enhancement of cadastral maps for 500 settlements, with 155 of these adjustments completed in 2024. Furthermore, it has integrated the cartographic component of the Registry of Geocoded Addresses, which is accessible to all communities, into its electronic service delivery platform.

In addition, users can now retrieve detailed information about an object as a result of a new system for the automatic generation of geographic object passports. This includes its unique identifier (code), geographic location, coordinates, a brief description, and visual representation (with associated photograph), by interacting with the corresponding symbology of the object within the geoportal interface.

The Cadastre Committee has also developed an automated algorithm to perform rapid, systematic comparison between property registration data and the designated and functional use data reflected on maps to identify inconsistencies. Any discrepancies detected are subsequently transmitted to the relevant territorial subdivisions, where necessary adjustments are made in the database.



Benefits

- Provides seamless access to geospatial data and ensures interoperability across various platforms thanks to data integration in national geoportal.
- Enables communities to access continuously updated spatial data on property addresses, ensuring the completeness and accuracy of the registry information.
- Streamlines the addressing process of properties.
- Reduces the time required for property registration database reconciliation, optimises resource allocation, and enhances the objectivity and accuracy of results using an automated algorithm.
- Promotes better decision-making and contributes to sustainable development across various sectors.