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Armenia's Journey Towards National Spatial Data Infrastructure

Trusted data- geospatial data

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What makes geospatial data truly trustworthy? 📷

- Standardized according to clear specifications
- validated through rigorous quality control,
- properly documented with comprehensive metadata,
- made accessible to appropriate stakeholders,
- designed to be interoperable with other systems,
- regularly updated to reflect real-world changes.







From Vision to System: Armenia's NSDI Development

In 2019

Armenia launched its geospatial reform with the Integrated Cadastre Development Concept.

- Adopted Integrated Cadastre
 Development Concept
- Unified various sectoral data into a cohesive national framework

In 2021

Armenia established its National Spatial Data Infrastructure (NSDI)

- Ensures standardized and accessible spatial data
 - Built on legal, technical, and methodological foundations

In 2023

Armenia adopted spatial data legislation and updated related regulations.

- Defined roles for all responsible
 authorities
- Codified principles of spatial data management

In 2022

Cadastre Committee launched a national geoportal.

- Cadastral maps
- Land information
- Property ownership data
 - Addresses
 - Geographic names
 - Orthophotos
 - Relief layers



Quality Improvement Initiatives



Rectified cadastral maps in nearly 50% of settlements



Verified and standardized over 1 million addresses



Created GIS database with ~36,000 geographic features



Developed and approved 12 national spatial data standards





National standards for basic layers approved in December 2024 Aligned with international standards



Design of a new national geoportal underway in 2025 – a major step in infrastructure advancement



Spatial Data & Cartography

This section provides access to spatial datasets, web maps, and cartographic resources. It offers tools and information for exploring geographic data, analyzing spatial patterns, and visualizing locations.



Services & Applications

This section provides information on available geospatial services and applications. Explore tools for data visualization, spatial analysis, and map creation, along with APIs and web services for integrating geographic information into your workflows







Spatial Data

der	Real estate	Addresses
ry	Relief	Surface waters
s	Planar base	Geographical names

5	Environmental monitoring facilities	Infrastructure
monuments	Specially protected	Production
	Distribution of vegetation and animal species	Climate
rks	Forests	Agriculture
	Soil	



Challenges

- Interoperability gaps between data collected by different organizations
- Limited professional capacity in geospatial data management
- Ongoing need for stronger institutional coordination
- Resource constraints affecting system
 development
- Continuous need for improvement NSDI is a long-term commitment
- Ensuring financial sustainability



Benefits & Opportunities

- More effective policies through accurate territorial insights
- Efficient resource allocation across regions
- Faster response to emergencies and natural disasters
- Improved environmental monitoring and precision
- Stronger support for infrastructure and economic development
- Enhanced transparency and public trust via data-driven governance
- Data-driven decision making



Thank You

for your attention





www.cadastre.am www.geoportal.am

