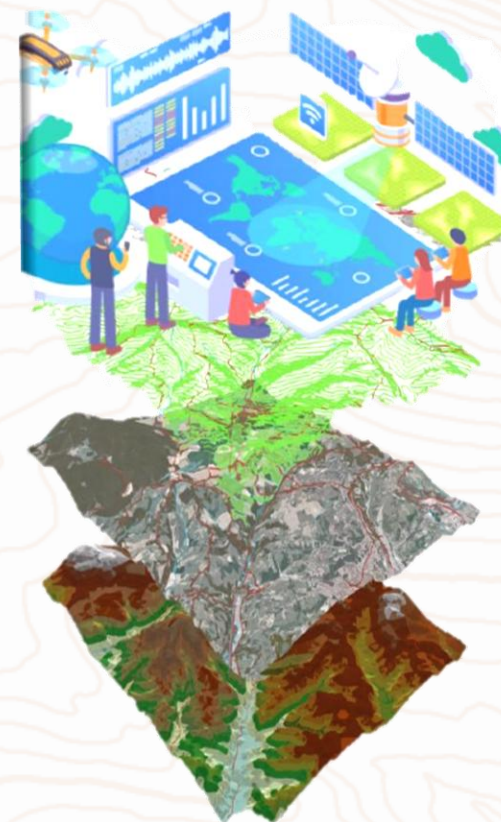


Ensuring Spatial Data Harmonisation for Advancing Moldova's EU integration



SÎRBU Rodica
Spatial Data Infrastructure Unit

CONTENT



The responsibilities of the Agency for Geodesy, Cartography and Cadastre in the field of Spatial Data Infrastructure;



Evolution of the Spatial Data Infrastructure in Republic of Moldova;



Spatial Data Harmonisation for Advancing
Moldova's EU integration;



Future prospects.



The responsibilities of AGCC in the field of Spatial Data Infrastructure

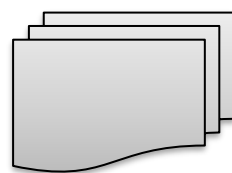
Based on the Government Decision no. 959/2023 regarding the organization and operation of the Agency for Geodesy, Cartography and Cadastre ([link](#)) AGCC:



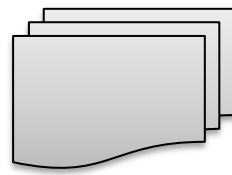
develops policy documents and normative acts in the field of NSDI;



ensures the development and updating of NSDI in accordance with international standards;



implements projects and establishes international collaborative relationships and promotes the exchange of experience and good practices;



coordinates technical concepts and regulations regarding the establishment of state geographic information systems and thematic geoportals;

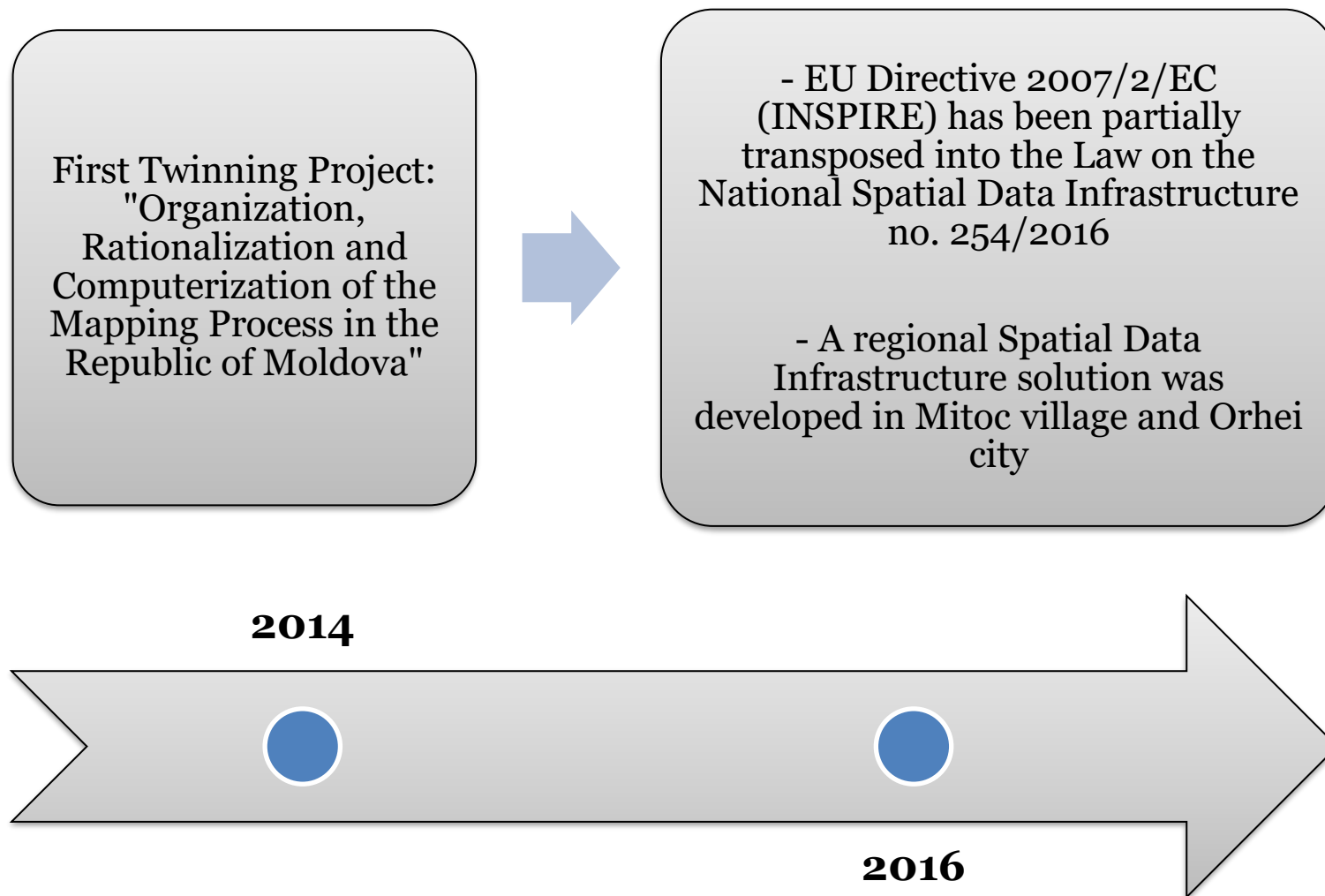


Support for public entities in the implementation national spatial data infrastructure.



monitors standards' implementation to ensure the interoperability of spatial data sets and services.

Evolution of the Spatial Data Infrastructure in Republic of Moldova



Evolution of the Spatial Data Infrastructure in Republic of Moldova



The first Geoportal was developed: geoportal INDS.gov.md, which included as basic functions the search and finding of spatial data through metadata, as well as an information page about the National Spatial Data Infrastructure.



The regulatory framework on the responsibilities of public entities regarding spatial data was developed, the organization and functioning of the National Spatial Data Infrastructure Council was regulated through G.D. 459/2017 ([link](#))



The method of creating network services, creating and updating metadata for spatial data sets and spatial data services, as well as the procedure for sharing spatial data sets and related services between public entities and third parties regarding interoperability and harmonization of spatial data sets and services was regulated through G.Ds. 737/2017 ([link](#)), 254/2018c ([link](#)).

2016-2018

Evolution of the Spatial Data Infrastructure in Republic of Moldova



•The legal framework was reviewed and updated and NSDI strategic development documents were developed;

•Consulting and support was provided for the development of the NSDI geoportal, as a single point of access to spatial data;

•A pilot project was implemented in Ungheni to test and apply in practice spatial data standardization guidelines;

•Over 60 central and local public entities, academia and the private sector participated in various capacity building and continuous training activities in the field of spatial data.

2020

2023

Evolution of the Spatial Data Infrastructure in Republic of Moldova

REGULATORY FRAMEWORK

Law no. 254/2016
on the national spatial data
infrastructure ([Link](#))

**DIRECTIVE 2007/2/EC OF
THE EUROPEAN
PARLIAMENT AND OF THE
COUNCIL** establishing an
Infrastructure for Spatial
Information in the European
Community (INSPIRE) ([Link](#))

G.D. no. 663/2023
regarding the State
Geographical Information
System "National Spatial Data
Infrastructure Geoportal"

G.D. no.458/2017 for approving the
responsibilities of public entities regarding
spatial data sets ([Link](#))

G.D. no. 459/2017 for the approval of the
Regulation on the organization and functioning
of the National Spatial Data Infrastructure
Council, as well as its composition ([Link](#))

G.D. no. 737/2017 for the approval of the Regulation
regarding the rules for creating network services and
the deadline for their implementation ([Link](#))
- **COMMISSION REGULATION (EC) No 976/2009** implementing
Directive 2007/2/EC of the European Parliament and of the Council as
regards the Network Services ([Link](#))

G.D. no. 738/2017 for the approval of the Regulation
regarding the rules for creating and updating metadata
for spatial data sets and services ([Link](#))
- **COMMISSION REGULATION (EC) No 1205/2008** of 3 December
2008 implementing Directive 2007/2/EC of the European Parliament
and of the Council as regards metadata ([Link](#))

G.D. no. 254/2018 for the approval of the
Regulation regarding the rules for sharing spatial data
sets and related services between public entities and
third parties ([Link](#))

G.D. no. 683/2018 for the approval of the
Regulation on the application rules establishing the
technical modalities for interoperability and
harmonization of spatial data sets and services, as well
as the implementation deadline ([Link](#))

G.D. no. 212/ 2022 – Thematic Geoportal of
AGCC (GEODATA) ([Link](#))
G.D. no. 36/2024 –SIGSNL ([Link](#))

**The Order of the General
Director 61/2023** regarding the
creation of Working Groups in the
field of national spatial data
infrastructure ([Link](#))

**The Order of the General
Director 23/2020** regarding the
approval of the mechanism for
monitoring the implementation of
the national spatial data
infrastructure ([Link](#))

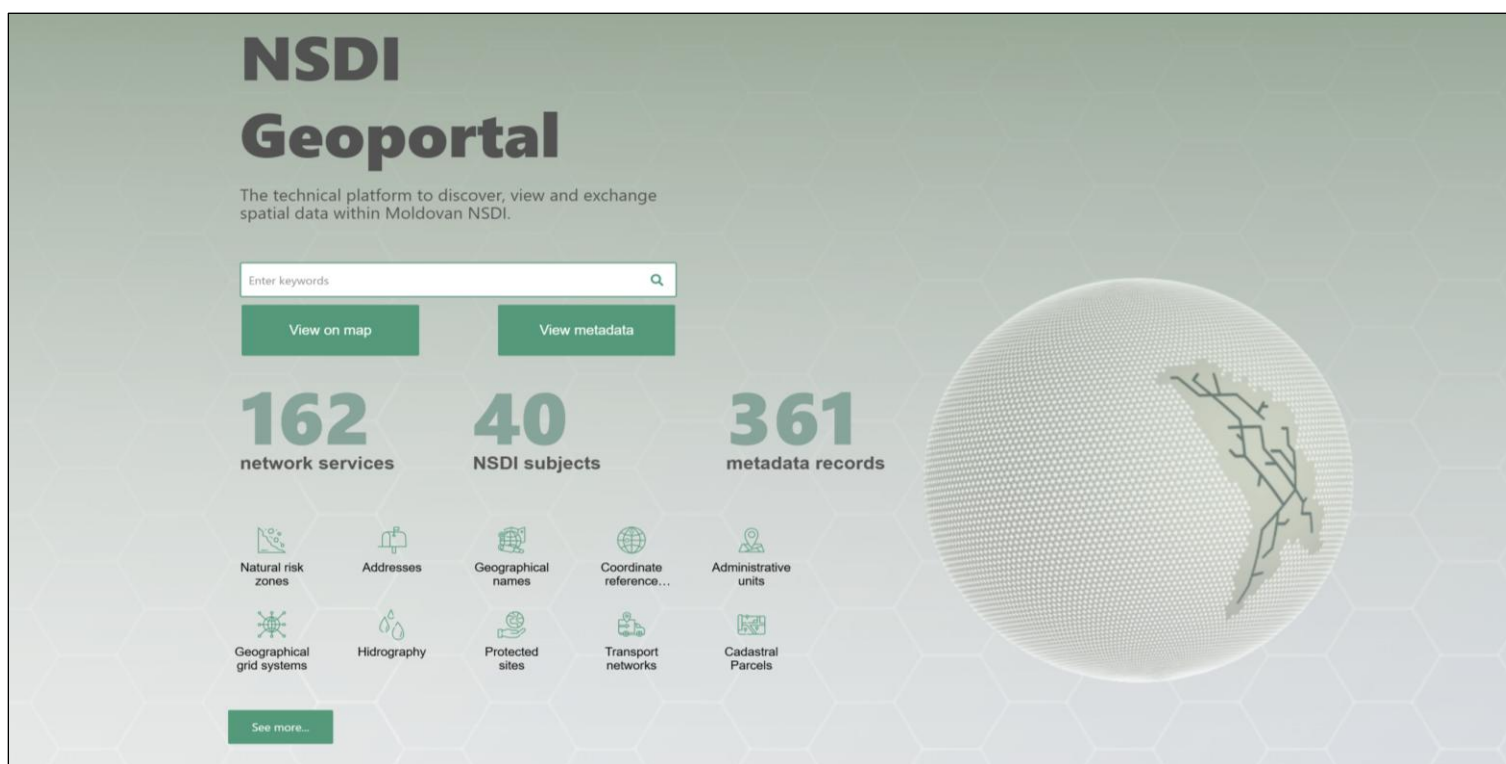
**The Order of the General
Director 79/2020** cu privire la
aprobarea Ghidurilor în domeniul
infrastructurii naționale de date
spațiale ([Link](#))

The guidelines:

- Georeferencing of spatial data;
- Technical specifications;
- Spatial data models;
- Harmonization of spatial data.

Evolution of the Spatial Data Infrastructure in Republic of Moldova

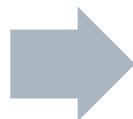
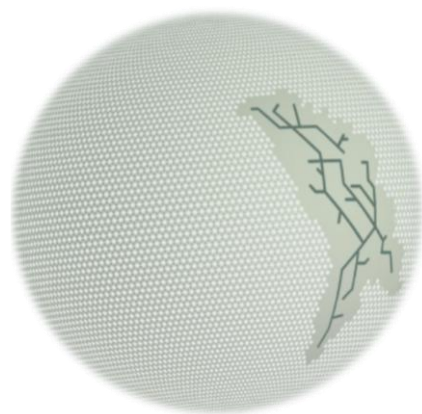
NSDI Geoportal ([Link](#))



Within the World Bank Land Registration and Evaluation Project (2022-2023), the INDS Geoportal development activity was carried out. This activity aimed to improve access and interoperability of spatial data, thereby facilitating compliance with European standards and supporting more efficient management of geospatial information.

Evolution of the Spatial Data Infrastructure in Republic of Moldova

NSDI Geoportal



NSDI Geoportal

The single point for
searching and
accessing spatial data
described by
metadata in the
Republic of Moldova.

INDS Web Page

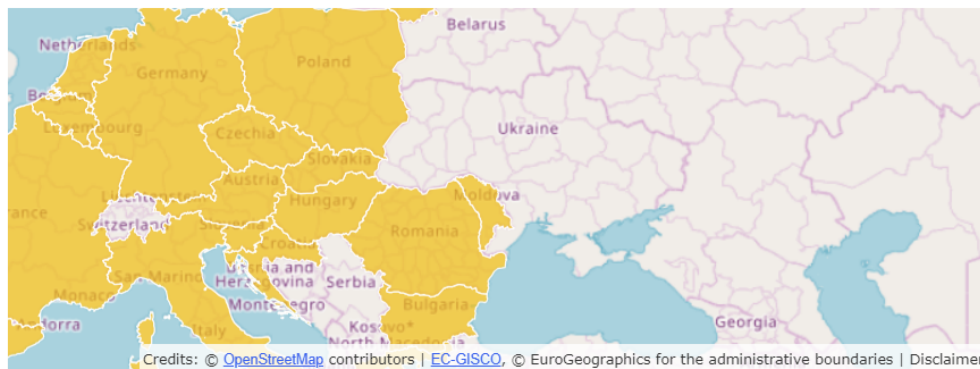
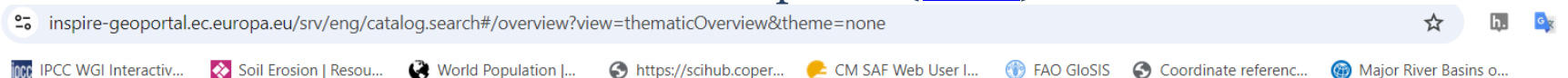
Informative page on
NSDI initiatives,
activities and news.

Collaboration Platform

The collaboration
channel between the
members of the
Technical Working
Groups, Capacity
Building and Sharing,
of which the
responsible public
entities are part.

Evolution of the Spatial Data Infrastructure in Republic of Moldova

The Republic of Moldova is officially present on the
EU INSPIRE Geoportal([Link](https://inspire-geoportal.ec.europa.eu/srv/eng/catalog/search#/overview?view=thematicOverview&theme=none))



84584
Viewable Datasets

Spatial scope coverage:

☐ National

☐ Regional

Select a country

Austria	1129 1095 519	Greece	45 45 33	Netherlands	219 137 144
Belgium	593 433 513	Hungary	67 31 30	Norway	142 57 26
Bulgaria	167 38 20	Iceland	104 0 0	Poland	177 119 118
Croatia	145 89 120	Ireland	87 72 57	Portugal	352 119 105
Cyprus	42 5 27	Italy	8382 546 839	Romania	117 48 47
Czech Republic	92 64 74	Latvia	158 89 88	Slovakia	139 42 84
Denmark	197 97 86	Liechtenstein	81 18 40	Slovenia	80 41 46
Estonia	93 63 64	Lithuania	103 102 66	Spain	288 218 260
Finland	455 79 42	Luxembourg	314 294 269	Sweden	250 219 217
France	200 2 37	Malta	157 148 150	EUROSTAT	30 0 0
Germany	108648 20144 80428	Moldova	155 39 0		

Evolution of the Spatial Data Infrastructure in Republic of Moldova

Geodata ([Link](#))



DESPRE NOI

ACTE NORMATIVE

GHIDUL UTILIZATORULUI

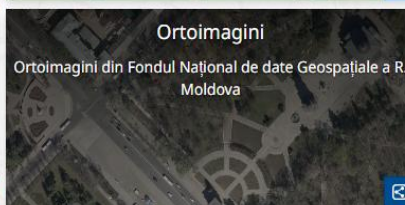
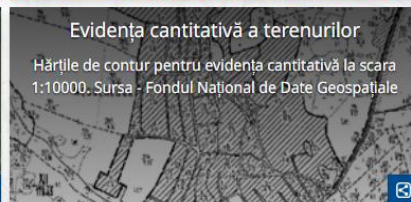
ACORD TIP



GEODATA.GOV.MD

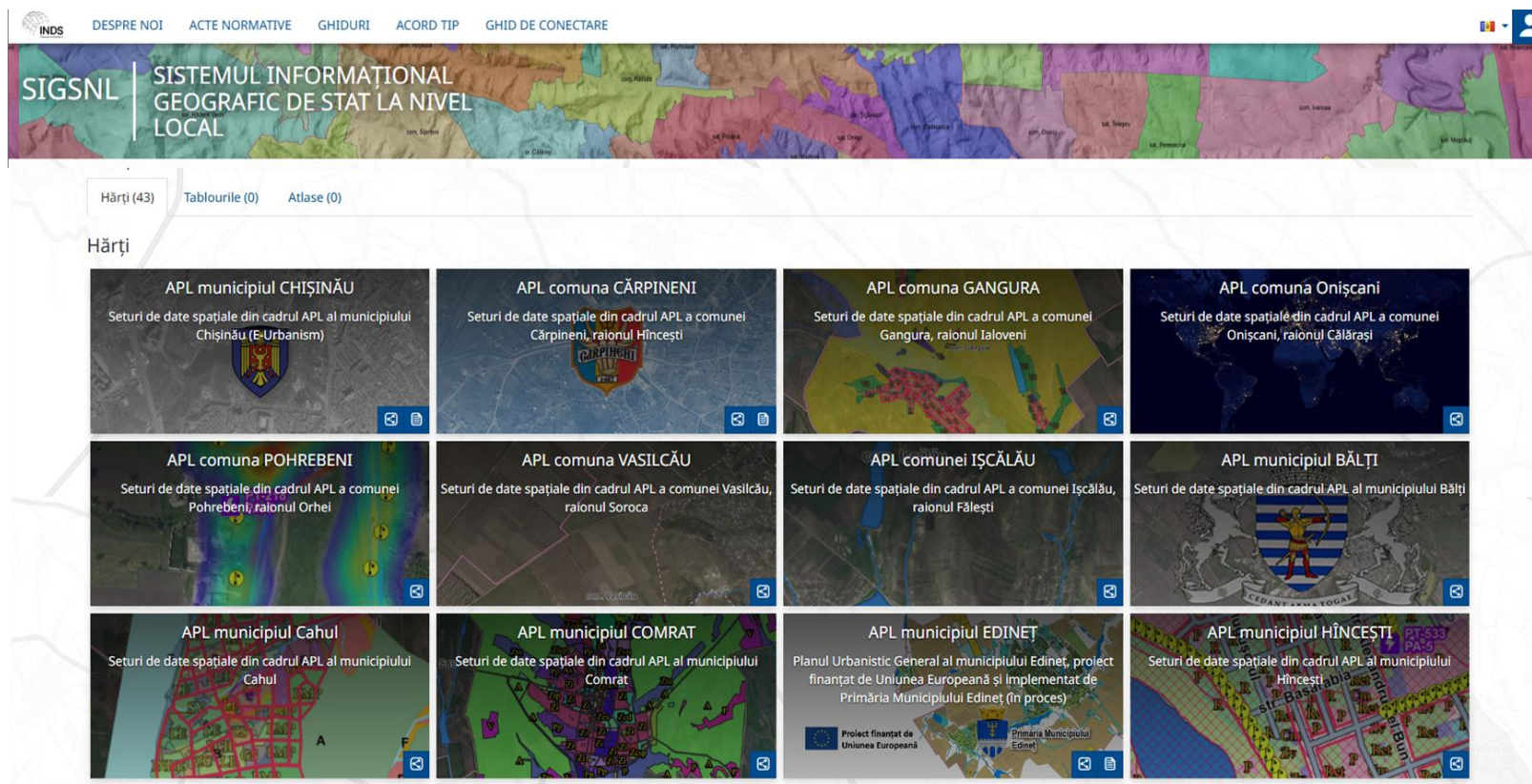
Agenția Geodezie, Cartografie și Cadastru

Hărți



Evolution of the Spatial Data Infrastructure in Republic of Moldova

State Geographical Information System at Local Level– SIGSNL ([Link](#))



The screenshot displays the SIGSNL (SISTEMUL INFORMAȚIONAL GEOGRAFIC DE STAT LA NIVEL LOCAL) web application. The interface includes a navigation bar with links: DESPRE NOI, ACTE NORMATIVE, GHIDURI, ACORD TIP, and GHID DE CONECTARE. A user profile icon is visible in the top right corner. The main content area is titled "Hărți (43)" and "Tablourile (0) Atlase (0)". Below this, a grid of 12 local spatial data sets is presented, each with a map thumbnail and a description:

- APL municipiul CHIȘINĂU**: Seturi de date spațiale din cadrul APL al municipiului Chișinău (E-Urbanism)
- APL comuna CÂRPINENI**: Seturi de date spațiale din cadrul APL a comunei Cărpineni, raionul Hîncești
- APL comuna GANGURA**: Seturi de date spațiale din cadrul APL a comunei Gangura, raionul Ialoveni
- APL comuna Onișcani**: Seturi de date spațiale din cadrul APL a comunei Onișcani, raionul Călărași
- APL comuna POHREBENI**: Seturi de date spațiale din cadrul APL a comunei Pohrebeni, raionul Orhei
- APL comuna VASILCĂU**: Seturi de date spațiale din cadrul APL a comunei Vasilcău, raionul Soroca
- APL comunei IȘCĂLĂU**: Seturi de date spațiale din cadrul APL a comunei Ișcălău, raionul Fălești
- APL municipiul BĂLȚI**: Seturi de date spațiale din cadrul APL al municipiului Bălți
- APL municipiul CAHUL**: Seturi de date spațiale din cadrul APL al municipiului Cahul
- APL municipiul COMRAT**: Seturi de date spațiale din cadrul APL al municipiului Comrat
- APL municipiul EDINEȘ**: Planul Urbanistic General al municipiului Edineț, proiect finanțat de Uniunea Europeană și implementat de Primăria Municipiului Edineț (în proces)
- APL municipiul HÎNCEȘTI**: Seturi de date spațiale din cadrul APL al municipiului Hîncești

Evolution of the Spatial Data Infrastructure in Republic of Moldova

e-Cadastre Informational Portal ([Link](#))

Portal informațional
e – Cadastru

Agenția Geodezie, Cartografie și Cadastru a Republicii Moldova
Instituția Publică Cadastru Bunurilor Imobile

Ghiduri Contacte Login

Funcționalitatea

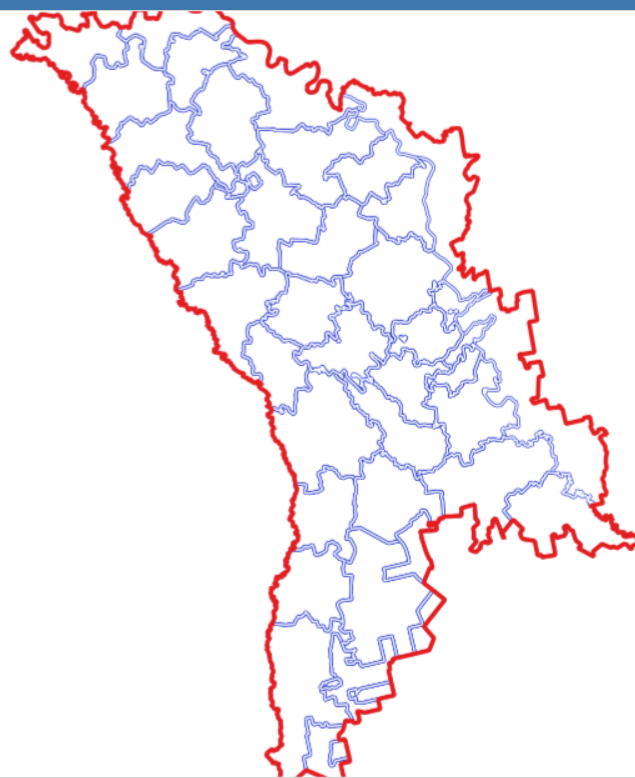
Datele deschise din Registrul Bunurilor Imobile

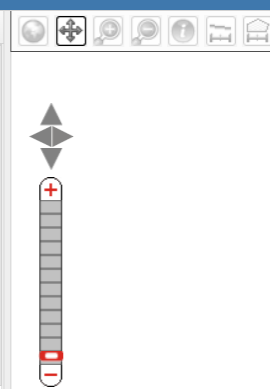
Datele despre zonele valorice utilizate pentru evaluarea în scopul impozitării

☐ Zonele valorice

☒ Straturi adiționale

Datele din Registrul de stat al unităților administrativ-teritoriale și al adreselor.





Scara 1:1500000m

128341.37, 301339.85

Se suportă de IE11, Google Chrome 40 , Versiunea: 1.6.1.0 I.P. CBI

Evolution of the Spatial Data Infrastructure in Republic of Moldova

Implementation of SDI policies in Republic of Moldova

**Agency for Geodesy, Cartography
and Cadastre**

The State Enterprise Institute for
Geodesy, Technical Prospecting and
Cadastre (INGEOCAD)



**Thematic
geoportals**

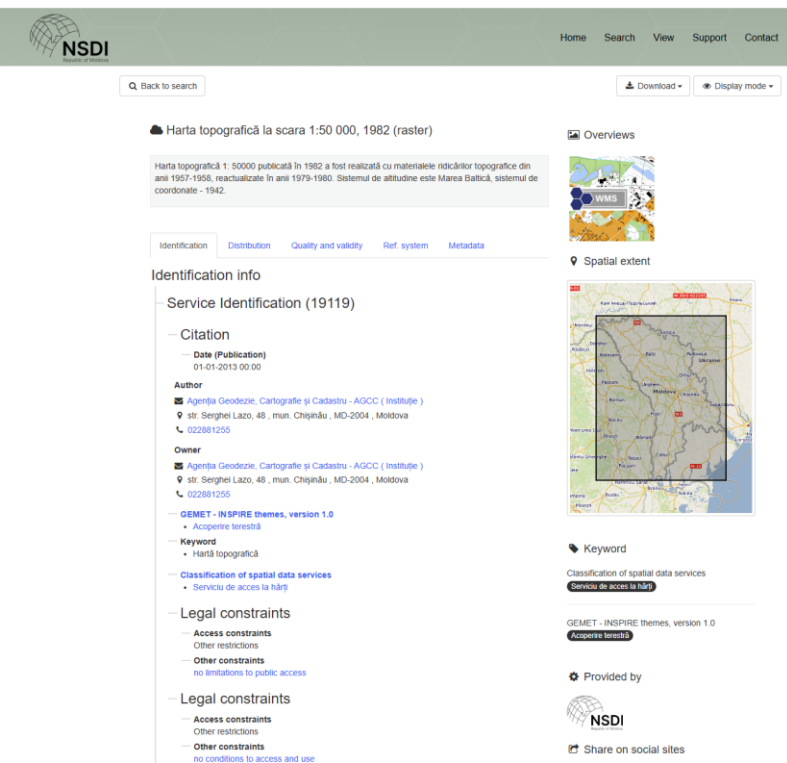
- Development and maintenance of thematic geoportals, providing expertise for maintaining the geoportals of other public authorities.

**Specialized
geographic
information
systems**

- Design, development and implementation of specialized geographic information systems: creation and maintenance of the "Electronic catalog of coordinates of national geodetic networks" information system, development of the Register of Geographical Names.

Spatial Data Harmonisation for Advancing Moldova's EU integration

- In recent years, the Agency for Geodesy, Cartography and Cadastre has focused on
- ✓ harmonizing metadata (2023-2025),
 - ✓ during the update of the NSDI Geoportal, in 2023 the INSPIRE metadata profile was implemented,
 - ✓ integrating the CRS of the Republic of Moldova into the INSPIRE repository (February, 2025),
 - ✓ and currently the primary focus is on data harmonization.



NSDI
Republic of Moldova

Home Search View Support Contact

Back to search Download Display mode

Harta topografică la scara 1:50 000, 1982 (raster)

Harta topografică 1:50000 publicată în 1982 a fost realizată cu materialele indicilor topografice din anii 1957-1958, reactualizate în anii 1979-1980. Sistemul de altitudine este Marea Baltică, sistemul de coordonate - 1942.

Identification Distribution Quality and validity Ref. system Metadata

Identification info

Service Identification (19119)

Citation

Date (Publication)
01-01-2013 00:00

Author

Agencia Geodesie, Cartografie și Cadastru - AGCC (Instituție)
str. Serghei Lazo, 48, mun. Chișinău, MD-2004, Moldova
022881255

Owner

Agencia Geodesie, Cartografie și Cadastru - AGCC (Instituție)
str. Serghei Lazo, 48, mun. Chișinău, MD-2004, Moldova
022881255

GEMET - INSPIRE themes, version 1.0

Acoperire terestră

Keyword

Harta topografică

Classification of spatial data services

Serviciu de acces la hărți

Legal constraints

Access constraints

Other restrictions

Other constraints

no limitations to public access

Legal constraints

Access constraints

Other restrictions

Other constraints

no conditions to access and use

Overview

Spatial extent

Keyword

Classification of spatial data services

Serviciu de acces la hărți

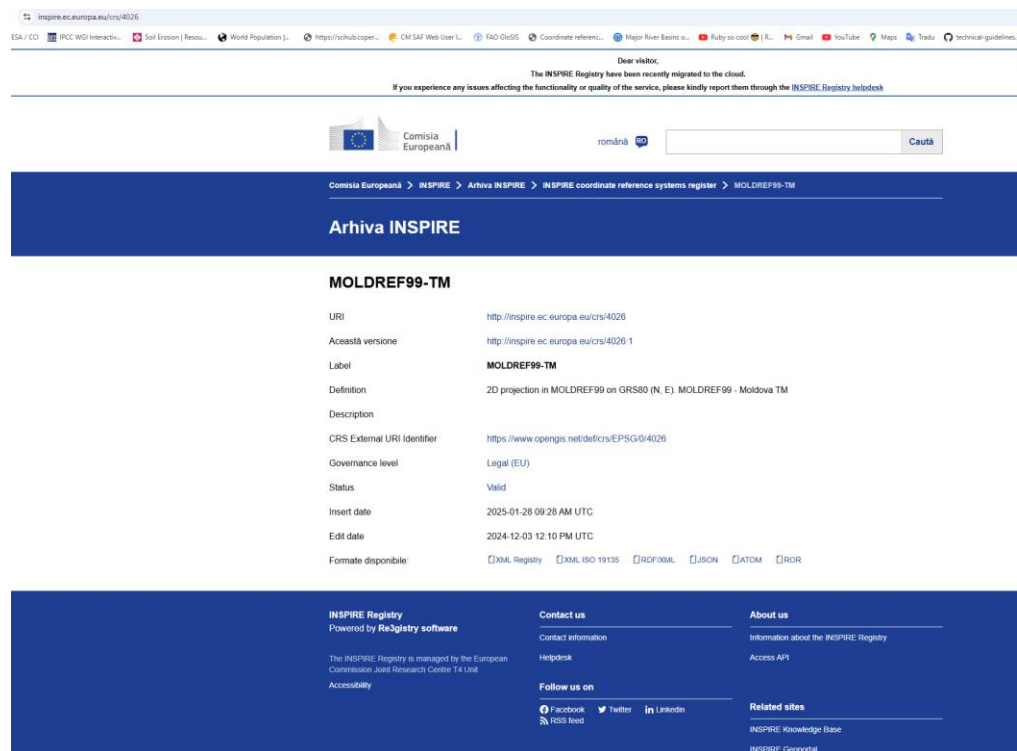
GEMET - INSPIRE themes, version 1.0

Acoperire terestră

Provided by

NSDI

Share on social sites



inspire.ec.europa.eu/crs/4026

ESA / CDI IPCC WGI Interact... Soil Erosion | Resour... World Population | https://cshub.coperni... CM SAF Web Over L... IAO QGIS Coordinate reference... Major River Basins o... Ruby so cool | R... Gmail YouTube Maps Tests technical-guidelines

Dear visitor,

The INSPIRE Registry have been recently migrated to the cloud.

If you experience any issues affecting the functionality or quality of the service, please kindly report them through the [INSPIRE Registry helpdesk](#)

Comisia Europeană | Comisia Europeană

română

Caută

Comisia Europeană > INSPIRE > Arhiva INSPIRE > INSPIRE coordinate reference systems register > MOLDREF99-TM

Arhiva INSPIRE

MOLDREF99-TM

URI <http://inspire.ec.europa.eu/crs/4026>

Această versiune <http://inspire.ec.europa.eu/crs/4026.1>

Label **MOLDREF99-TM**

Definition 2D projection in MOLDREF99 on GRS80 (N, E). MOLDREF99 - Moldova TM

Description

CRS External URI Identifier <https://www.opengis.net/def/crs/EPSG/0/4026>

Governance level Legal (EU)

Status Valid

Insert date 2025-01-28 09:28 AM UTC

Edit date 2024-12-03 12:10 PM UTC

Format disponibile [X]XML Registry [X]XML ISO 19135 [X]ROF/XML [X]JSON [X]ATOM [X]ROR

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Access API

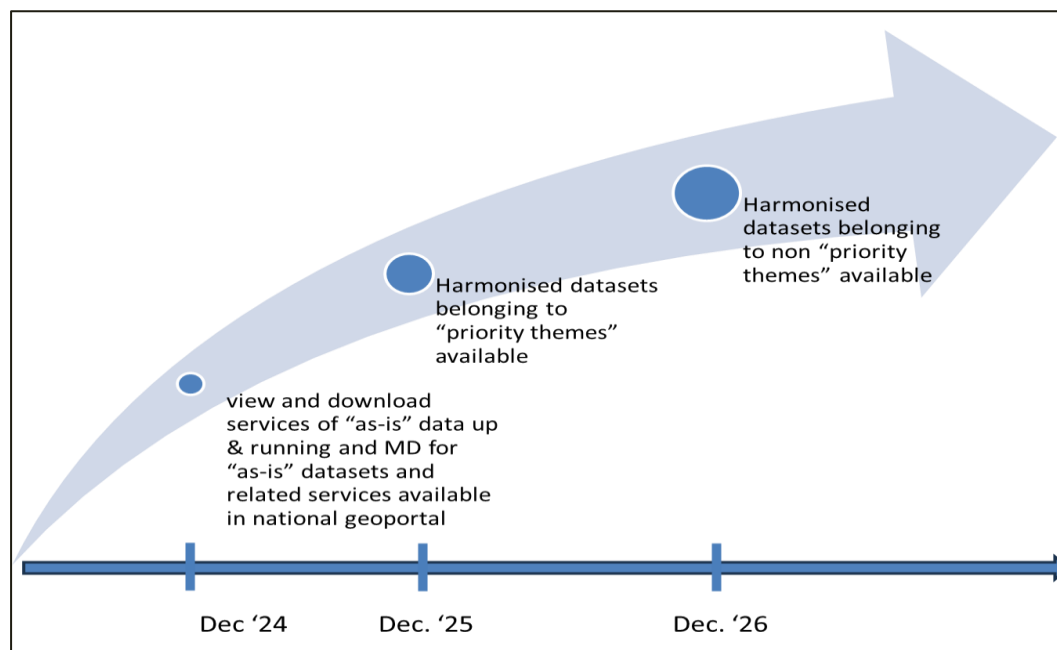
Related sites

INSPIRE Knowledge Base

INSPIRE Geoportal

Spatial Data Harmonisation for Advancing Moldova's EU integration

Data harmonisation - Providing access to spatial data through network services in a representation that allows for combining it with other harmonised data in a coherent way by using a common set of data product specifications. (*INSPIRE glossary*)



Implementation roadmap of data harmonisation plan

Source: Consulting Services to support NSDI Action Plan and Business Model Implementation MD-PSA-282238-CS-CQS
(Project ID No. P161238)





Spatial Data Harmonisation for Advancing Moldova's EU integration

The harmonization process was initiated within the World Bank project. Currently, the emphasis is on harmonizing spatial data held by the AGCC, a process that has actually proven to be more difficult than expected:

- ✓ understand the UML model;
- ✓ complete the matching table;
- ✓ differences between national datasets and the target schema;
- ✓ lack of qualified personnel;
- ✓ in some situations the lack of datasets at the national level;
- ✓ new software (such as HALE Studio);
- ✓ harmonization plan for each separate theme, including specific ones for vector data and raster data;
- ✓ validation of harmonised dataset.

Spatial Data Harmonisation for Advancing Moldova's EU integration









Nume

 GML
 hale_project
 source_data
 OrthoimageryMappingTable

Tip

Folder de fişiere
 Folder de fişiere
 Folder de fişiere
 Foaie de lucru Microsoft E...

Nume

 Harmonised_data
 Source_data
 CadastralParcelsMappingTable_3
 CadastralParcelsMappingTable_4
 regex
 Test_CP
 Test_CP.halex.alignment
 Test_CP.halex.styles.sld

Tip

Folder de fişiere
 Folder de fişiere
 Foaie de lucru Microsoft E...
 Foaie de lucru Microsoft E...
 Document Microsoft Word
 Fişier HALEX
 Microsoft Edge HTML Do...
 Fişier SLD

INSPIRE Reference Validator

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[European Commission](#) > [INSPIRE](#) > [Validator](#) > [Test selection](#)

Test selection

Configure your test

Select the INSPIRE resource you would like to test

- ☐ Metadata
☐ View Service
☐ Download Service
☐ Discovery Service
☒ Data set

Select the data theme(s) relevant to the data set

- You can select more than one theme at a time.
- If no theme is selected, the data set will be only tested against the Conformance Classes for general requirements.

Annex I	Annex II	Annex III
Cadastral parcels (CP)	-	-

[Advanced options](#)

Antispam

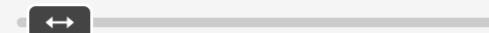
Audio version

Refresh



Select a number between ~~thirty-one~~ and ~~34~~ by moving the slider.

You've selected: 0

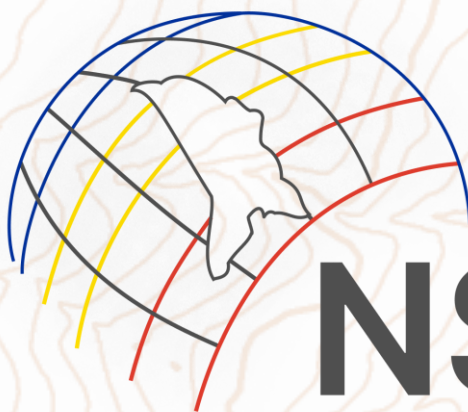


1. The Republic of Moldova aims to harmonise all thematic datasets and facilitate access to them through network services;
2. Full transposition in the national legislation regarding spatial data (INSPIRE Directive and related Regulations) will be achieved after the country's integration into the European Union;
3. Active involvement of all stakeholders in the development of the National Spatial Data Infrastructure (NSDI) will continue;
4. Future actions will include the creation of data models for the newly generated spatial data, in order to simplify the data harmonisation process;
5. A government decision on monitoring and reporting on progress is planned;
6. Is needed external support for updating and harmonisation of spatial data and metadata, according to INSPIRE specifications;
7. Continuous training of staff from the responsible institutions for spatial data;
8. The development of the technical infrastructure necessary for the acquisition and creation spatial data.

THANK YOU FOR YOUR ATTENTION!

geoportalinds@agcc.gov.md

Phone: (+373) 22-88-12-45



NSDI
Republic of Moldova

