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European Union

International Conference "Spatial Data for the Sustainable Development of the Republic of Moldova"



Development of NSDI with EU support – example of the Twinning project "Improving Spatial Data Services in the Republic of Moldova following EU standards"



Maria OVDII,

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EU ENI 2020 Twinning project: MD 16 ENI OT 01 19

"Improving Spatial Data Services in the Republic of Moldova following EU standards"





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The Agency for Land Relations and Cadastre of the Republic of Moldova



✓ **The Agency for Land Relations and Cadastre:** Public authority subordinated to the Government of Moldova. Responsible for Land policy, geodesy, mapping and cadastre <http://www.arfc.gov.md/>.

✓ Established in 1994

✓ Coordination and monitoring of activities for the creation of **National Spatial data Infrastructure** <http://www.indsgov.md/>.

✓ Creation and updating of **reference spatial data** and digital maps <https://geodata.gov.md/#/>;

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✓ Administration and development of the **National Geospatial Data Fund**.

✓ **ALRC is Founder of State Enterprise**

- S.E. Institute of Geodesy, Engineering Research and Cadastre "INGEOCAD", as production unit <http://www.ingeocad.md>





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European Union Support 2014-2016



2014-2016:

EU Twinning project – “Organization, Streamlining and Computerization Process in Mapping in the Republic of Moldova”

Partners – SWEDESURVEY, as Lead MS and Croatian State Geodetic Administration, as Junior MS

Project main results:

- ✓ NSDI Law, created in line with the EU INSPIRE requirements, adopted in 2016 (achieved);
- ✓ Regional and Local level SDI demonstrations for Pilot region (achieved);
- ✓ A demonstration of the network services showing the possibilities of data sharing (achieved);
- ✓ First Moldovan Prototype NSDI Geoportal (achieved).

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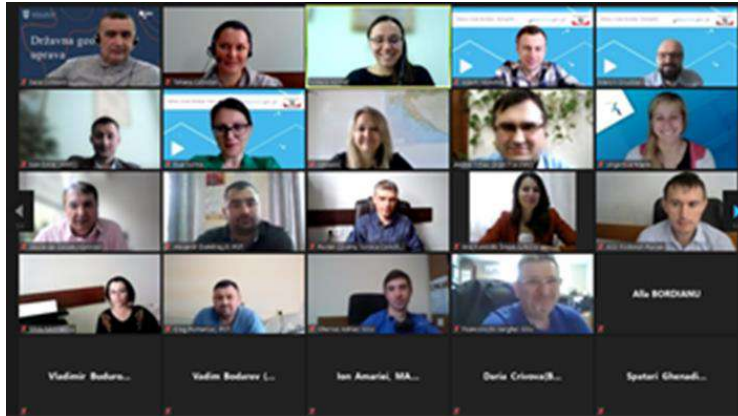
“Improving Spatial Data Services in the Republic of Moldova following EU standards”





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European Union Support 2022-2023



2020 - 2023:

EU Twinning project – “Improving Spatial Data Services in the Republic of Moldova following EU standards” MD 16 ENI OT 01 19; 2020/416-630, Started on the 1st of September 2020

The project is worth 1.8 mil EUR with an implementation period of 32 months.

✓ The overall objective:

- to further strengthen the capacity of the Government of Moldova in the context of the implementation of AA and EU approximation process.

✓ Project purpose:

- to enhance e-government through improved spatial data sharing and cooperation among authorities in line with EU standards and best international practices.



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Project partners



Croatian State Geodetic Administration (SGA) as the Lead MS



Faculty of Geodesy, University of Zagreb, Croatia



Croatian Central Finance and Contracting Agency (CFCA)

Netherlands Enterprise Agency

Dutch Kadaster as Junior MS



Polish Head Office of Geodesy and Cartography (GUGiK), as Junior MS



Agency for Land Relations and Cadastre of the Republic of Moldova (ALRC) – Main Beneficiary



Moldovan NSDI stakeholders



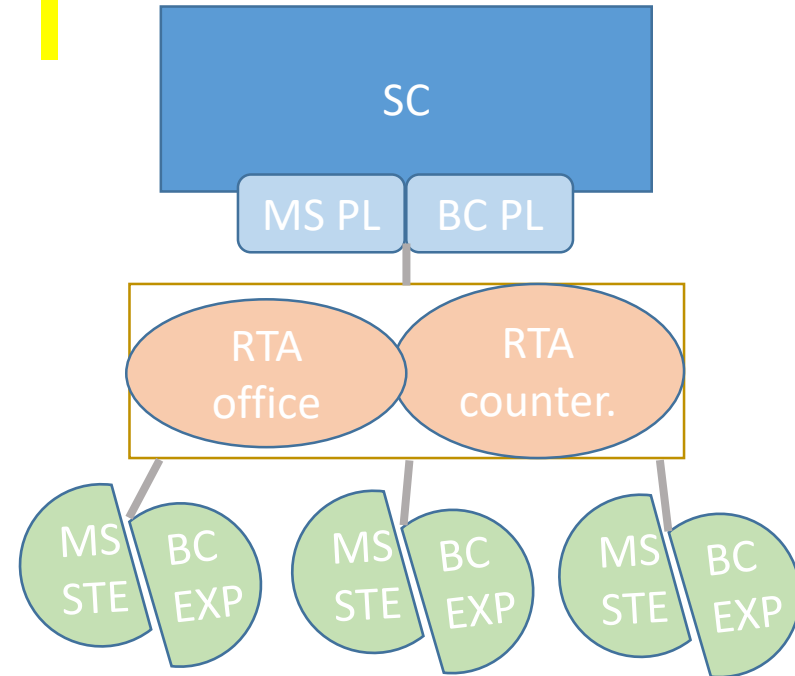


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Project Organisation



- **Lead MS Project Leader:**
 - Ms Sanja Zekušić /SGA/Croatia
- **BC Project Leader:**
 - Ms Maria Ovdii/ALRC/Moldova
- **Junior MS Project Leaders are:**
 - Ms Ewa Surma/GIGiK/Poland
 - Mr Robbert Brouwer /NEA/ Netherland.
- **RTA MS** - Ms Mateja Horvat/Croatia,
- **RTA BC** - Mr Ivan Danii/Moldova.
- **MS STE:** more than 22 experts from Croatia, Poland, Netherland





Project components



**Component 1:
Sustainable NSDI Governance
established**

**Component 2:
NSDI Cost Recovery Model
developed**

**Component 3:
Use of the existing data
within the NSDI enabled**

**Component 4:
Capacity Building and
Awareness**

**Component 5:
Existing legislation on NSDI and
proposed improvements
reviewed**



Achieved results

Component 1:

- Situation Report
- 5-year NSDI Program + Action Plan;
- Recommendation on
 - Interoperability
 - Data sharing
 - Licensing
 - Institutional framework (NSDI Council/working groups)



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TWMD-1-111-17

Situation Report on the NSDI implementation, maintenance and development in the Republic of Moldova



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TWMD 1-121-03

PROGRAM FOR THE DEVELOPMENT OF THE NATIONAL SPATIAL DATA INFRASTRUCTURE (2022-2026) FOR THE REPUBLIC OF MOLDOVA

General Objectives / Specific Objectives / Actions	Monitoring indicators	Implementation costs	Deadline	Responsible authorities and institutions
GENERAL OBJECTIVE 1: Ensuring an appropriate regulatory framework for the establishment, development and maintenance of NSDI				
Specific Objective 1.1: Adjusting the regulatory framework for the establishment, development and maintenance of the NSDI to the current requirements and principles of INSPIRE Directive				
1.1.1. Drafting amendment of Law no. 254/2016 on the national spatial data infrastructure to be fully aligned with EU INSPIRE Directive policies, including completion with provisions related to the creation and maintenance of the spatial data register.	Draft normative act approved and submitted to the Parliament.	Within the limit of budget allocations.	June 2022	ALRC
1.1.2. Drafting amendment of the Government Decision no. 788/2017 on metadata and metadata profiles to align with the EU INSPIRE Directive specifications on metadata, as well as to define the procedure for creating the unique resource identifier (URI)	Draft normative act approved and published in gazette.	Within the available budget.	March 2022	ALRC
1.1.3. Drafting amendment of the Government Decision no. 254/2018 on the norms for sharing spatial data sets and related services among public entities and third parties to include best practices for sharing spatial data and network services	Draft normative act approved and published in gazette.	Within the available budget.	September 2022	ALRC, public entities responsible for spatial data sets and services

3



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General Objectives / Specific Objectives / Actions	Monitoring indicators	Implementation costs	Deadline	Responsible authorities and institutions
1.2.2. Determining / updating costs for spatial data network services created by responsible public entities.	Tariffs (costs) approved by order of NSDI public entity director. 50% of the public entities responsible for spatial data in accordance with Government Decision No. 458 will define the costs for their network services.	Within the available budget.	2023-2024	ALRC, public entities responsible for spatial data sets and services
GENERAL OBJECTIVE 2: Strengthening cooperation among all NSDI stakeholders				
Specific Objective 2.1: Improving NSDI organizational framework.				
2.1.1. Developing an annual work plan for NSDI Council, with clearly defined objectives and deadlines.	Annual work plan for the NSDI Council approved and published. 2 NSDI Council meetings held per year.	Within the available budget.	2022-2024	ALRC, NSDI Council
2.1.2. Defining the roles, tasks and responsibilities of the Working Groups.	Annual activity plans for the Working Groups approved. Working Groups meetings held on a quarterly basis.	Within the available budget.	2022-2024	ALRC, NSDI public entities members of WG

Achieved results

- ❑ Situation Report
- ❑ 5-year NSDI Program + Action Plan;
- ❑ Recommendation on
 - Interoperability
 - Data sharing
 - Licensing
 - Institutional framework (NSDI Council/working groups)



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on national spatial data infrastructure as well as the composition and content of new spatial datasets:

- Provide consultations on the norms and conditions for access and use of spatial datasets.
- Provide consultation and present proposals with regard to developing collaboration agreements with public entities and third parties in the field of national spatial data infrastructure.
- Propose research/study topics to groups of specialists established by the coordinating authority in the field of national spatial data infrastructure.
- Recommend standards for defining the content, structure, form of spatial data, necessary to obtain a common and interoperable format of the data.
- Recommend the conditions and modalities for masking/disguising spatial data, determine the content of publication of classified data, which is important to areas and objectives of interest for national security and defense.

The primary role of the Council is advisory, even though it consists of decision makers from different institutions. The composition of the NSDI Council is the list of institution which are listed in the Annex no. 2 to Government Decision no. 459 from 22 June 2017.

According to the Government Decision no. 459, the meetings of the NSDI Council should be held twice a year. Presently the meetings are suspended due to the COVID-19 situation. Because of the supportive character of this body there are more incentives needed to activate work.

2.1 Recommendations and suggestions for improvement

- the work of the NSDI Council should be based on its work plan for a given calendar year
- In the yearly work plan it should be introduced the activity for every member of the NSDI Council
- introduce report from the activities that took place during the year, deadline for delivering such a report can be 31st of January every year and the report can be published online or given to the institution that is supervising ALRC
- give NSDI Council not only the advisory role with regard to the policy for developing national spatial data infrastructure but more decision-making and more functional and implementation role
- NSDI Council task can be also proposing initiatives to improve infrastructure in organizational and technical terms, and to expand its thematic scope
- giving opinions on draft legal acts, standards, organizational, scientific and educational projects, plans and reports on infrastructure
- in the list of the composition of the NSDI Council should be indicated the specific positions (recommended high level rank) not only the list of institutions
- Action plan for SDI in the R. of Moldova should be aligned with activities of the NSDI Council
- if this is possible to include in NSDI Council representatives of universities and envisage some remuneration for participation in the meeting
- increase the frequency of the NSDI Council meetings, at least once every two months
- create a webpage dedicated only to NSDI Council activities
- In the event of a justified absence of a member of NSDI Council, a person authorized by member of NSDI Council may participate. The authorization should be given in writing and, in the absence of a

n)



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member of the NSDI Council. The authorization may include voting by an authorized person on behalf of the NSDI Council member at the meeting to which the authorization relates.

3 Working groups

According to the Law on National Spatial Data Infrastructure No. 254/2016, the coordinating authority has a duty to form working groups with a goal to fulfil the work plan on NSDI implementation. By the Orders no. 66, 67 and 68 of the General Director of the Agency for Land Relations and Cadastre (hereinafter the Agency), three working groups have been established:

- Technical Working Group for implementing NSDI
- Working group for sharing spatial data sets and related services
- Working Group for capacity building in the NSDI field.

According to available information, the existing working groups have an advisory role. The existing working groups do not have a defined work program and do not produce documents. The leaders of the working groups come from the Agency but are not specified in the Orders no. 66, 67 and 68 on the establishment of working groups.

The best way to define the obligations of the WGs is to make a yearly working plan for them to follow. The working plan should include the WGs into the NCP (Agency) activities in NSDI implementation as well as raising awareness on NSDI in society. Defined activities and tasks will also help to raise the motivation of the WGs members. Since the working group members are working as volunteers the working plan shouldn't have more than three major tasks per year included. Their main objective is to help the coordinating authority with the NSDI implementation process in the area of their expertise.

The composition of the working groups is best not to have more than 10 members, while it's easier to work in smaller groups. This would lead to higher productivity and increase the efficiency of the working groups. Also, as members, institution should nominate experts in the designated field and not managers or politicians. The leader of the working groups should be specified in the Orders which establish the working groups.

The Orders no. 66, 67 and 68 should also include WGs obligation to prepare the yearly plan as well as the yearly report on WGs activities and deliver it to the coordinating authority.

3.1 Work plan for the Technical Working Group for implementing NSDI

The work plan has to be obtainable within one year, but should also reflect the current needs of the coordinating authority regarding technical issues for NSDI implementation since the purpose of working group existence should be to help with the implementation, development and promotion of NSDI.

Achieved results

Component 2:

- Report on NSDI cost assessment
- NSDI benefits identification



EU ENI 2020 Twinning project: MD 16 ENI OT 01 19
Improving Spatial Data Services in the Republic of Moldova following EU standards

TWMD-2-211-02

Cost Report of NSDI implementation, maintenance and development in Moldova

- ver. 1.0 -



Agency for Land Relations and Cadastre of the Republic of Moldova

48 Serghei Lazo str MD-2005 Chisinau
www.arfc.gov.md

Subject: Questionnaire Cost Assessment NSDI Moldova

Dear

Moldova is embarking on the development of a National Spatial Data Infrastructure (NSDI). A NSDI Cost Recovery Model will be developed. This requires identification of all costs and benefits of NSDI. For this purpose this questionnaire has been developed. The focus of this questionnaire is on costs as being made by stakeholders and spatial data providers.

Your answers are needed for the creation of a NSDI Strategy for Moldova.

The questions concern general questions and questions on spatial data sets, metadata, services & portal, applications, legal & finance and on coordination & management,

We would be please to find your reply before.....

Yours sincerely,



EU ENI 2020 Twinning project: MD 16 ENI OT 01 19
Improving Spatial Data Services in the Republic of Moldova following EU standards

TWMD-2-211-02

Methodology for NSDI Benefits identification in Moldova



EU ENI 2020 Twinning project: MD 16 ENI OT 01 19
Improving Spatial Data Services in the Republic of Moldova following EU standards

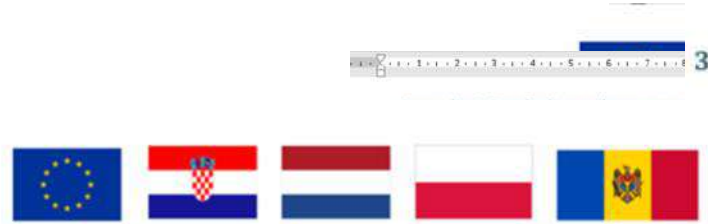
TWMD-2-223-01

Benefits Report

Achieved results

Component 3:

- ❑ Catalogue A-D conversion
- ❑ Guidelines:
 - ✓ on analogue to digital conversion,
 - ✓ on geo-referencing,
 - ✓ for data specifications,
 - ✓ on data modelling,
 - ✓ for harmonisation,
 - ✓ for creation and maintenance of metadata.
- ❑ TS for NSDI Metadata Geoportal
 - + Support in development
- ❑ Planning of the pilot project
- ❑ Technological Framework Report



EU ENI 2020 Twinning project: MD 16 ENI OT 01 19
Improving Spatial Data Services in the Republic of Moldova following EU standards

TWMD-3-342-01

Methodology guide for creation and maintenance of metadata based on Technical Guidance for the implementation of INSPIRE dataset and service metadata based on ISO/TS 19139:2007

October 18 - 22, 2021

class Country profile CROATIA

address. It is recommended to use an email address of the organisation instead of a personal email address. Optional elements in this class include: phone and address.

- Role- this is mandatory element encoded with *gmd:role/gmd:CI_RoleCode*. It points to the value "pointOfContact" of [ISO 19139] code list *CI_RoleCode*. https://standards.iso.org/iso/19139/resources/gmxCodeLists.xml#CI_RoleCode.

Mandatory elements are:

- Organisational name- *gmd:organisationName*
- E-mail address- *gmd:address*
- Role with default value "Point of Contact"- *CI_RoleCode*.

Example of encoding Metadata point of contact using class *CI_ResponsibleParty*:

```
<gmd:contact>
  <gmd:CI_ResponsibleParty>
    <gmd:individualName gco:nilReason="missing">
      <gco:CharacterString/>
    </gmd:individualName>
    <gmd:organisationName>
      <gco:CharacterString>State Geodetic Administration</gco:CharacterString>
    </gmd:organisationName>
    <gmd:positionName gco:nilReason="missing">
      <gco:CharacterString/>
    </gmd:positionName>
    <gmd:contactInfo>
      <gmd:CI_Contact>
        <gmd:phone>
          <gmd:CI_Telephone>
            <gmd:voice gco:nilReason="missing">
              <gco:CharacterString/>
            </gmd:voice>
            <gmd:facsimile gco:nilReason="missing">
              <gco:CharacterString/>
            </gmd:facsimile>
          </gmd:CI_Telephone>
        </gmd:phone>
        <gmd:address>
          <gmd:CI_Address>
            <gmd:deliveryPoint gco:nilReason="missing">
              <gco:CharacterString/>
            </gmd:deliveryPoint>
          </gmd:CI_Address>
        </gmd:address>
      </gmd:CI_Contact>
    </gmd:contactInfo>
  </gmd:CI_ResponsibleParty>
</gmd:contact>
```



Table 5. Abbreviations

Abbreviations		O	N
item name	description	obligation (mandatory/optional)	maximum occurrence

Achieved results

- ❑ Catalogue A-D conversion
- ❑ Guidelines:
 - ✓ on analogue to digital conversion,
 - ✓ on geo-referencing,
 - ✓ for data specifications,
 - ✓ on data modelling,
 - ✓ for harmonisation,
 - ✓ for creation and maintenance of metadata.
- ❑ TS for NSDI Metadata Geoportal
 - + Support in development
- ❑ Planning of the pilot project
- ❑ Technological Framework Report



EU ENI 2020 Twinning project: MD 16 ENI OT 01 19
Improving Spatial Data Services in the Republic of Moldova following EU standards

Document No. TWMD-3-311-01

Technical Specification - NSDI Metadata Geoportal

December 23, 2020



5.1

5.2

5.3

1.2.2. geoportal.md

- It is older one of two
- <http://geoportal.md>. It was developed **GeoSuit** solution.

Geoportal geoportal.md is GB of RAM and 4 TB of stor necessary requirements re connectivity are provided by

staxxxx
Moldov
various
availab

The mi



licensed packaged
integral solution

in source geospatial
agement of vector
spatial data. It has
user management,
spatial Consortium
standards, namely

Achieved results

Component 4:

- Training script
- 35-hour online training “Introduction to Spatial Data Infrastructure and QGIS”, over 100 participants
- Communication Plan in the NSDI sector
- Report on educational programs regarding NSDI topics
- Study visits in Croatia and Poland
- Awareness campaign

Zoom Meeting

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TWMD-4-415-02

L-01

1. Geoinf
2. Spati
3. Introd
roadma
4. INSPI
services
5. INSPI
• Summ

Report on educational programs at Moldovan academic institutions offering courses in the field of Project main topics

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5 REQUIREMENTS FOR THE DEVELOPMENT OF THE APPROPRIATE SDI CURRICULA AND THEIR CONTENT

This chapter contains a description of the experiences and existing literature in MS country (Croatia). This experience was shared during the remote meetings with ALRC and the representatives of the Moldovan academic institutions. It brings the selection of other Capacity Building projects within the Erasmus+ program, Horizon 2020 Twinning, and other EU-funded programs (like European Social Fond) that could be relevant to the subject of capacity building in the field of geoinformation and spatial data infrastructure.

Today's challenges faced by the geoinformation ecosystem are external and internal, highlighting the lagging behind of the academic sector in introducing new technologies into the teaching process, which results in new professionals not having the knowledge and skills needed by the business sector. The problem has a global character and numerous projects are underway in search of solutions that will enable the modernisation of the geoinformation curricula that will progressively adapt changes in technology and user needs.

01.10.2021

Participants (28)

- Tatiana Cebotari (Co-Host, MD)
- Andrija Horvat (Host, HR)
- Ewa Szirmai (Co-Host, HU)
- Tatiana Arliga (Co-Host, PL)
- Corina Vladutza (Moderator, MD)
- adrian
- Alexandru Mihaila (NGO, MD)
- Jovana Buluc (Institution, HR)
- Jovana Popovic
- Jovana Aljeng (NGO, HR)
- Vesela Slavova (Institution, BG)
- Vesela Slavova (NGO, BG)
- Orsina Pasari (Institution, HU)
- Andrija Horvat
- Daria
- Daria Milevica
- Edward Krasovky
- Trenka (NGO, HR)
- Stana (NGO, HR)
- Marian (Institution, MD)
- Andrija Horvat (Co-Host, MD)



Achieved results

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Component 5:

- Analysis of existing NSDI legislative framework;
- Amendments to the Law on NSDI and secondary legislation
- Model for Multi-agency data sharing MoU
 - Template for Tech. Operati. Data Sharing Protocols

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TWMD-5-512/3-01

Draft Model for multi-agency Data Sharing Agreement and template for Technical Operational Data Sharing Protocols

a) are part of spatial data sets specified in annexes 1, 2 and 3 as well as other spatial data sets;

b) are available in digital format;

c) are held by or in the name of one of the public entities;



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3rd year: plan



- Promotion of strategic framework
- Support of the NSDI Organisational framework

- Business Model
- Business Plan

- Metadata Catalogue update
- Testing of NSDI Geoportal
- Pilot project
- Pilot report and discussions
- Preparing/improving methodology for quick quality checks

- Capacity building plan
- Study visits to NL
- Specialized training
- University programs
- NSDI Conference

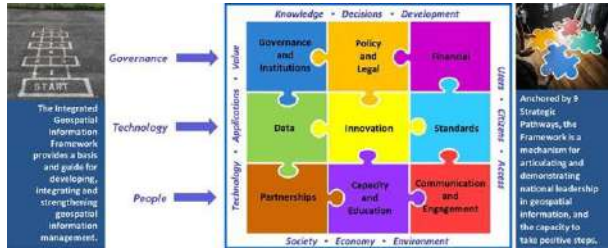
- Finalisation of multi-agency MoU model
- Finalisation of template for Technical Operational Data Sharing Protocols





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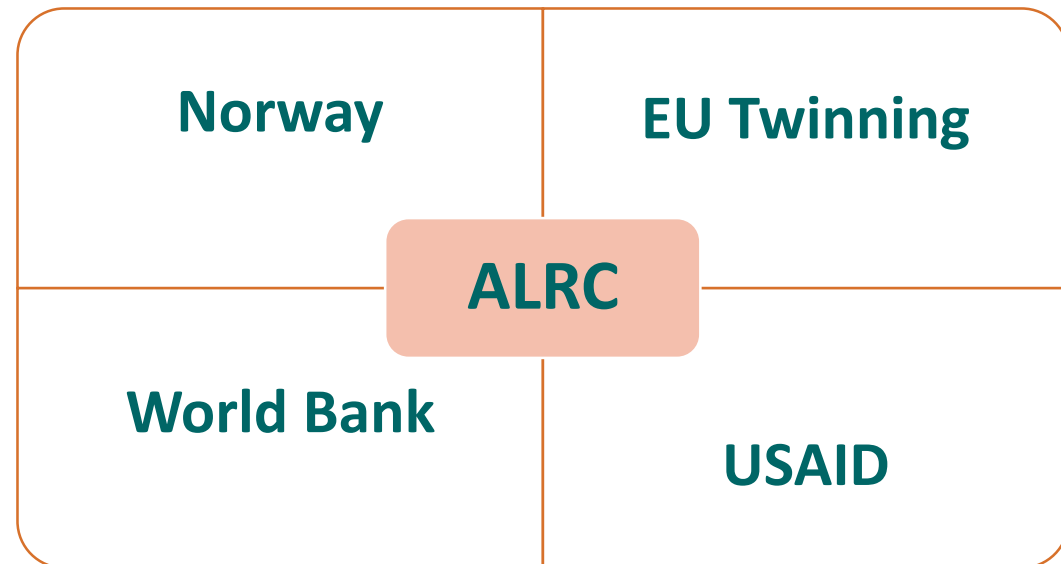
Actions/initiatives funded by other donors



On-going cooperation in ALRC Projects

Strategic Partners:

- ✓ Government of Moldova
- ✓ EU Twinning
- ✓ Norwegian Government
- ✓ World Bank
- ✓ USAID



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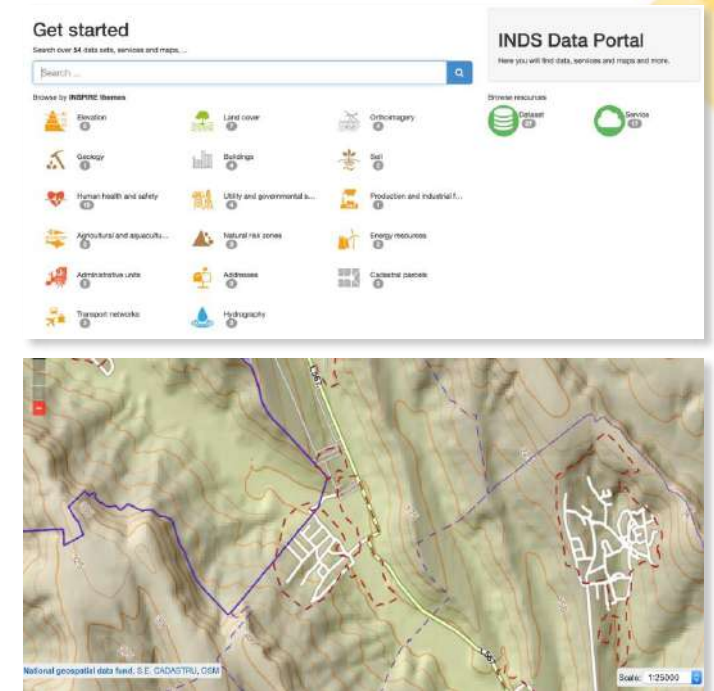
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Actions/initiatives funded by other donors



WB Project for Registration and property valuation Project \$35 million 2019-2024 Component 3. Support to the National Spatial Data Infrastructure (\$1.4 million)

- Expansion of the current NSDI Geoportal Pilot project and Integration with EU INSPIRE Geoportal
- NSDI Standard
- Core Datasets
- Implementation of NSDI Bussiness Plan
- CORS Network support



<http://www.geoportalinds.gov.md/>

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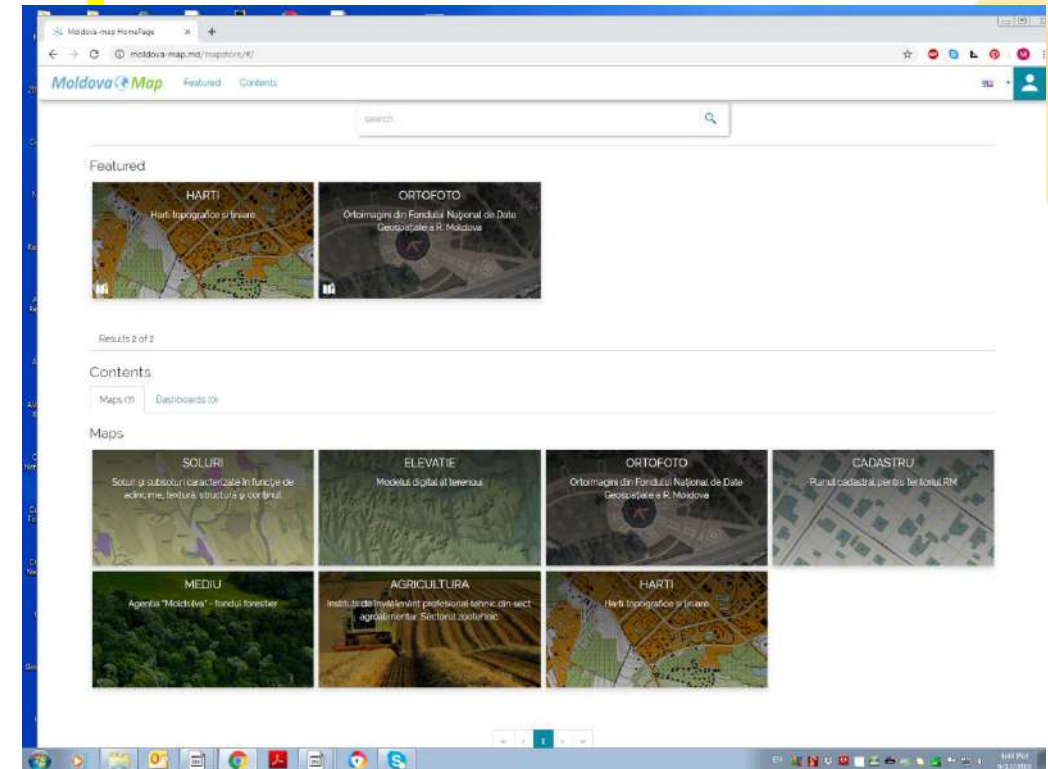
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Actions/initiatives funded by other donors



- Orthophoto images 2007
- Digital Terrain Model 2007
- GNSS MoldPOS Net 2010
- Lidar scanning for flood-affected areas 2011
- Digital Maps for risk area 2012
- MoldLIS in Cadastre 2014
- Orthophoto images 2016
- Digital Terrain Model 2016
- Pilot project on use of UAV/drones 2016
- Base Maps for Sustainable Development 2019-2022
- Law and Register of Geographical Names
- IGIF/Integrated Geospatial Information Framework
- Technical and institutional assistance for Local Public Authorities.

Moldova: Norwegian Technical Support for NSDI 2006-2022



<https://geodata.gov.md>

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Conclusions



Year 2000:

Moldova benefit from donors support in creation and improvement of official spatial data (EU, Norway, JICA, USAID, FAO and WB)

Year 2007:

Spatial data under responsibility of the ALRC available on www.geoportal.md and www.moldova-map.md

Year 2016:

As a results of the **1st EU Twinning** project:

- NSDI Law according EU INSPIRE Directives in force
- 15 Government decisions and 15 ALRC Orders are in force
- Metadata are available on the prototype of the NSDI Geoportal





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Conclusions



- Year 2020/2023: As a result of the **2nd EU Twinning** project:
- All legislation and regulations are revised
 - Metadata will be available on the new NSDI Geoportal
 - Guidances will be tested on pilot area on real data developed
 - 100 employers from central and academia public sector educated in NSDI, QGIS
 - Cooperation with universities in the field of NSDI strenghtened
 - Cooperation with central and local public sector in the field of NSDI improved
 - Many documents (guidances, regulations, recommendations, technical specifications etc) delivered and available for further improvements in NSDI and spatial data development
 - Institutions from the EU MS shared their knowledge regarding to the NSDI with ALRC and many Moldovans institutions including the vision to cooperate together in the future as one big team.





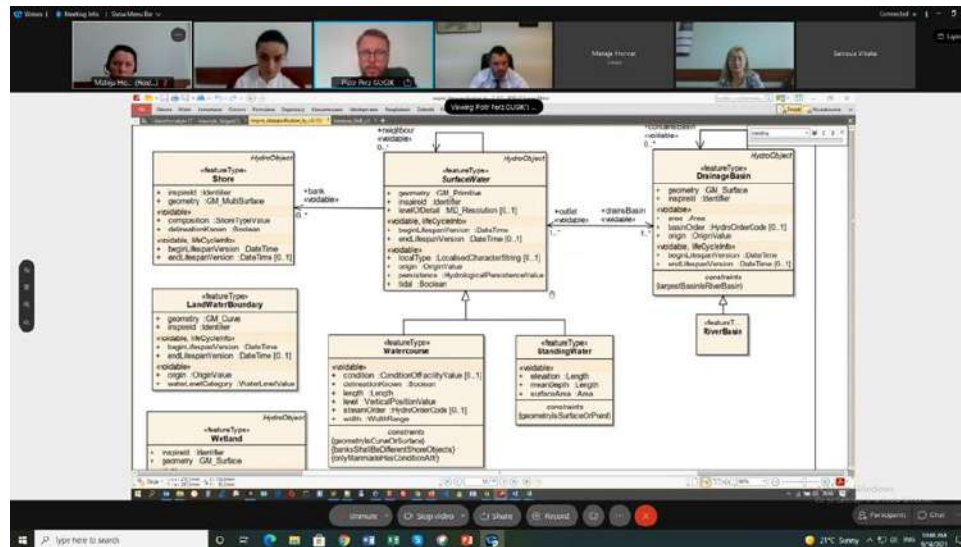
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Conclusions



EU Twinning project:

- Very useful tool for modernization of the ALRC using the experience of the counterpart institutions in Croatia, Poland and the Netherlands
- Project results already embedded in user institution processes (ALRC)



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Thank you for your attention!

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Sanja ZEKUŠIĆ,

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