

XXVII FIG CONGRESS 11–15 SEPTEMBER 2022 Warsaw, Poland

Volunteering for the future – Geospatial excellence for a better living

Example of Cooperation in EU Funded Project of Improving Spatial Data Services in the Republic of Moldova

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XXVII FIG CONGRESS 11–15 SEPTEMBER 2022 Warsaw, Poland

Volunteering for the future – Geospatial excellence for a better living

Twinnning project: Improving Spatial Data Services in the Republic of Moldova following EU standards

- Project objective:
 - to enhance e-government through improved spatial data sharing - support in NSDI development
- Twinning:
 - aims at upgrading the administrative capacities of the public administration



Solution 1

PLATINUM SPONSOR





Project partners



Funded by the **European Union**





Moldovan NSDI stakeholders

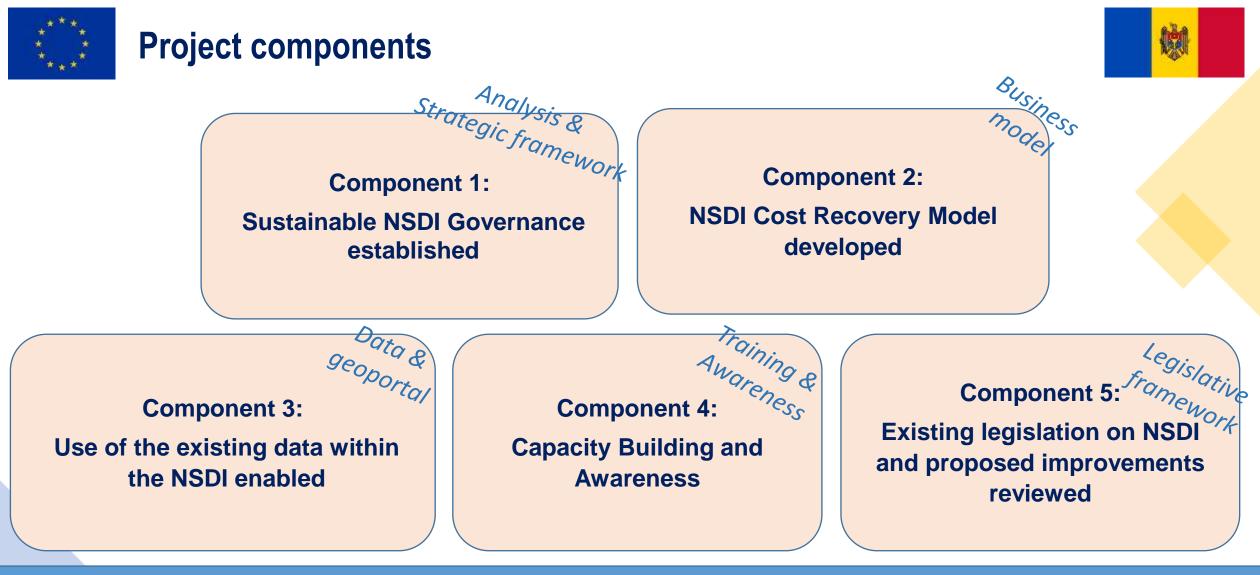
Implementation: 1/9/2020 - 30/4/2023



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







Results of twinning project 2014-2016:

Organization, Streamlining and Computerization Process in Mapping in the Republic of Moldova

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Achieved results

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□ Situation Report

- □ 5-year NSDI Program;
 - Action Plan 2022-2024;
- □ Recommendation on
 - Data sharing
 - Licensing
 - Institutional framework (NSDI Council/working groups)

EU ENI 2020 Twinning project: MD 14 Improving Spatial Data Services in the EU ENI 2020 Twinning project: MD 14 ENI OT 01 18 Improving Spatial Data Services in the

Document No. TWMD-1-122-04

2 EXISTING LEG The existing framework

> ting the Spatial D e important from n below in Figure

> > Law

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Law on d and inte

Law on National Spatial Data Infrastructure No. 254/2016

Discovery and view services shall be made available free of charge to the public.

PROGRAM FOR THE DE NATIONAL SPATIAL DAT (2022-2026) FOR THE RE

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Action Plan

of NSDI State Programme 2022-2024



TWMD-1-131-02

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Recommendations on NSDI Institutional framework in the Republic of Moldova

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	Sublicense	Disclose source	Modify	Other copyleft	Other law
	Commercial	Copyleft/Share	Ethical clauses	Linking	Not fixed/loca
	use;	ea.	Pub sector only	freedom	Venue fixed
	Use patents	Lesser copyleft	Sublicence	Multilingual	



Funded by the

European Union

Achieved results

Report on NSDI cost assessment
 NSDI benefits identification

Component 2:



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TWMD-2-211-02

Business

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.artc.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,





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Methodology for NSDI Benefits identification in Moldova





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TWMD-2-223-01

Benefits Report



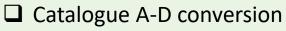


Achieved results

Data

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

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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

Technological and Infrastructure report with recommendations for spatial data sets and network services

Moldova. In other words, the portal shall be the gate into searching and viewing spatial data from various sources of the Republic of Moldova, clearly showing which spatial data and services are available and where, and making them available to the persons entitled and allowed to access them



Achieved result

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TWMD-4-415-02

- □ 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

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creating new selection

Report on educational programs at Moldovan academic institutions offering courses in the

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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 geoinformatic curricule that will accompany spaid character in technology and user needs.

Help

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Achieved results

Framewor

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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





TWINNING

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Draft o for s

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



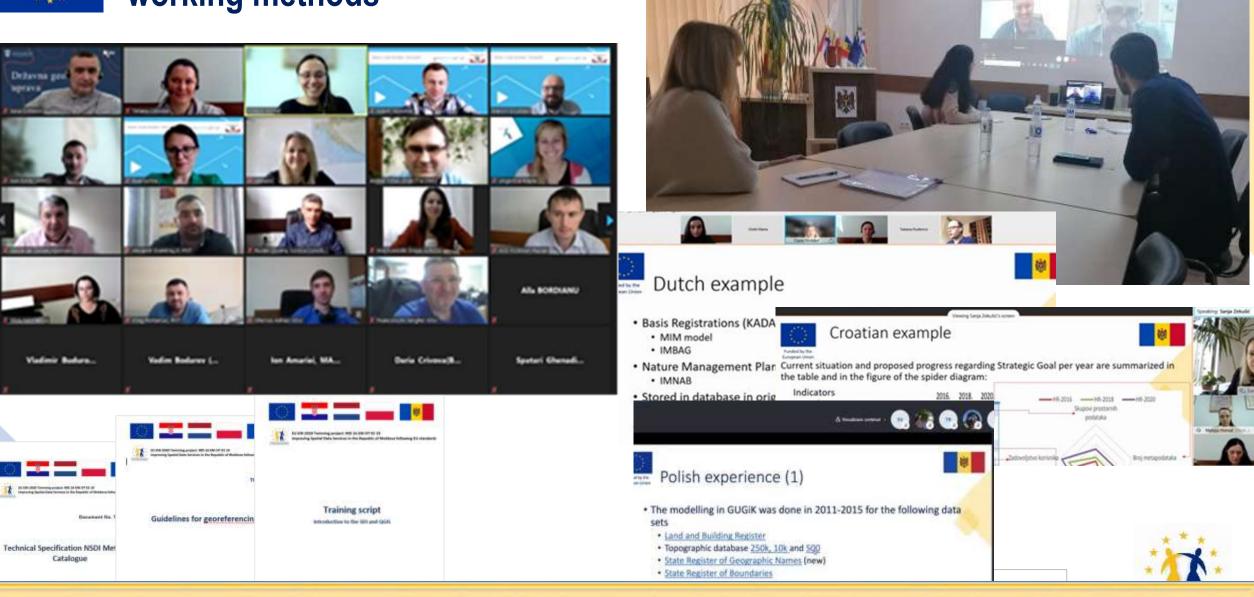


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Project organization & working methods



Basic principle: close partnership (MS & BC experts) + detailed planning + high level of expertise



European Union

Cooperation with other projects in the field



- WB funded project
 - (NSDI geoportal, harmonization, licencing etc.)
- Norway technical support project
 - (standards for data sets, capacity building, UNGGIM IGIF action plan)
- USAID project
 - (GIS development for local public authorities)











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

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

Thank you for your attention!



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