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Executive summary

- √ Introduction
- √ E-Government and Open data in Moldova
- √ Integration Geospatial Information Framework in Moldova
- √ Moldova: NSDI Diagnostic Tool Uses
- √ Strategic Partners
- √ Main challenges
- **√** Conclusions













Introduction

Republic of Moldova:

√ Total area – 33,846 thousand km²
 √ Capital – Chisinau
 √ Population –3 mln
 √ Real Estate – 5.7 mln





V divided to thirty-two districts (raion), three municipalities, and two autonomous regions (Gagauzia and Transnistria). V 1, 681 localities, of which 982 localities have their own LPAs. Five localities have municipality status, 66 have city status, and 916 are villages with commune status.

The Agency for Land Relations and Cadastre of Moldova



V ALRC is Founder of S.E. Institute of Geodesy, Engineering Research and Cadastre "INGEOCAD ", as a Production Unit http://www.ingeocad.md V The Agency for Land Relations and Cadastre: Public Government Authority carrying out execution, control and supervising the Land Administration, Geodesy, Mapping and Cadastre Systems in Moldova http://www.arfc.gov.md/

√ Established in 1994

V National contact point for the NSDI implementation, responsible for establishment, maintaining and management of the NSDI geoportal, monitoring and reporting of the spatial data infrastructure at all levels.













World Bank cooperation 1998-2007

1998-2007

√ Implementation of First Cadastre Project in Moldova;

√ Establishing and operating of the unified property registration system;

V Approximately four million real estate objects were registered during the first five years of the project.

V About 75% of the properties was registered;

√ Development and implementation a property valuation system for taxation purposes.



2018-2024

World Bank ongoing Second Cadastre Project for Land registration and property evaluation.

E-Government and Open Data in Moldova



v The Open Data portal http://www.date.gov.md applies to currently around 944 data sources and around 30 applications.

The public service portal https://servicii.gov.md hosts around 635 services and around 164 e-services

√ In April 2012, the Government of Moldova joined the Open Government Partnership initiative.

V With the World Bank's support the Government of Moldova launched its M-Cloud platform in 2013.

V MCloud products provide strong infrastructure support for the further development of e-Services http://egov.md/en:

- i) *MPass* (government authentication and access control service),
- ii) MSign (government digital signature service), and
- iii) MPay (government electronic payment gateway)













IGIF Spatial Data Diagnostic Tool

IGIF Diagnostic Tool: A questionnaire with scores and set of 9 indicators

- Policy and Strategy
- Governance arrangements
- Legal Framework
- Accessibility and Technical Infrastructure
- Socio-economic impact
- Capacity Development
- Use of NSDI / Applications
- Core Datasets
- Thematic datasets

Country Assessment

- Existing NSDI components
- Missing NSDI components
- Improvements
- Necessary investments.

Spatial Data Diagnostic Tool of Moldova

Launched in May 2019

Conducted in 22 Key Organizations / Stakeholders

- 1 Ministry of Agriculture, Regional Development and Environment
- 2 Ministry of Health, Labour and Social Protection
- 3 Agency for Land Relations and Cadastre
- 4 The State Road Administration
- 5 Military topographic service
- 6 National Bureau of Statistics
- 7 Agency "MACL DSILVA"
- 7 Agency "MOLDSILVA"
- 8 Energy Efficiency Agency
- 9 Agency "Waters of Moldova"
- 10 Agency for Public Services
- 11 Agency for Geology and Mineral Resources
- 12 S.E. Moldavian Air Traffic Services Authority13 S. E. "The State Planning Institute for Land Management"
- 14 S.E. "INGEOCAD"
- 15 S.E. "Forest Research and Development Institute"
- 16 General Inspectorate for Emergency Situations
- 17 Institute of Ecology and Geography
- 18 Municipality of Chisinau
- 19 Orhei city Hall
- 20 Technical University of Moldova
- 21 Agency for Public Property
- 22 Union of geodesists, geologists and cadastral engineers of Republic of Moldova













Outputs

Outputs:

- Completed questionnaire based on interviews
- Scores for 9 categories
- Draft Assessment Report
- List of priority sectors and datasets for socio-econ assessment

-	Governance and Institution	15	
	— Викрипій Вин		
	1. Governance and Institutions	Current	
1.1	Is there a NSDI "champion" in Government?	75	
1.2	Is there a NSDI Coordinating body?	81	
1.3	Is the NSDI Coordinating body represented at senior / top level in government?	50	
1.4	Is the coordinating body supported by an active secretariat?	59	
1.5	Are there clear Terms of Reference (ToR) for the Coordinating Body?	51	
1.6	Does the coordinating body actively reach out to all levels of government (including local government) and other stakeholders (private sector, NGOs, volunteering sector)?	31	
1.7	Are there Working Groups supporting SDI development? e.g. technical, standards, legal, service development)?		
1.8	Is there a user group / forum available for consultation and providing user feedback / requests?	31	
1.9	Does the national "champion" actively interact with the global and regional geospatial community?		
1.10	Are there linkages between the coodinating body and those developing the e- Government agenda?	29	
	Pathway Score	53	
	,		



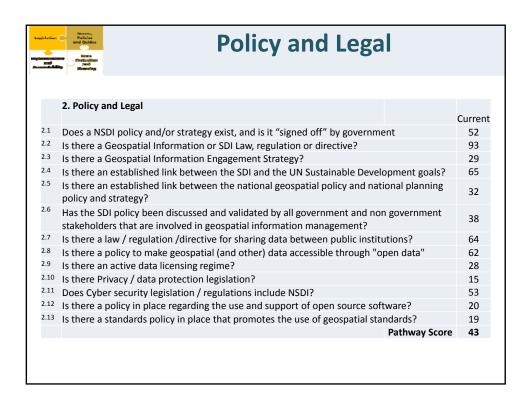












ractman	Opportunities Dienefits Realization	Financial		
	3. Financi	al		Current
3.1	Does a bu	Does a business model for the creation of an SDI exist?		4
3.2	Has an economic sector or national project (such as census) been identified that could act as a target (or anchor) sector / project to spearhead economic development, based upon the existence of reliable geospatial information?		22	
3.3	Has finance been secured for development and implementation of the SDI?		22	
3.4	Has finance been secured for ongoing maintenance, and exploitation, of the SDI?		19	
3.5	Is the business model underpinned by a business case / economic justification that has been accepted at the top level in government?		4	
3.6	Has a coherent and sustainable pricing and licensing structure for SDI datasets/services been established?		10	
3.7	Is the priv	rate sector building services based upon SDI?		19
			Pathway Score	14



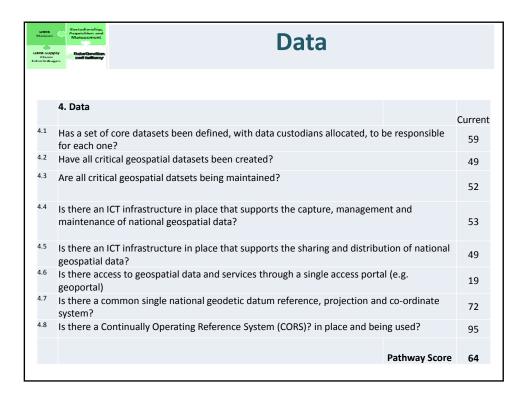


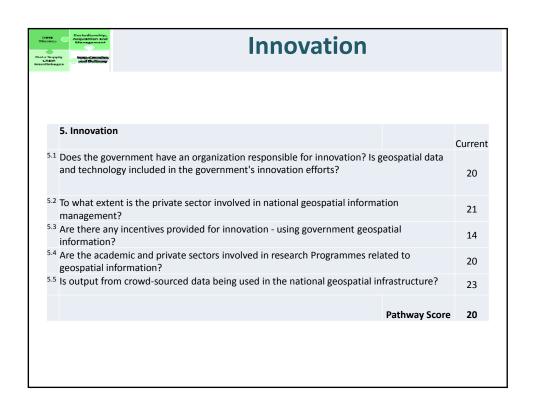


























eton	Partnership	
	7. Partnerships	Current
7.1	Are government agencies collaborating to create geospatial data?	29
7.2	Are there competing datasets or competencies that lead to duplication of effort inside government?	36
7.3	Are the academic sector and the private sector involved (policy) development related to geospatial information?	d 42
7.4	Is the private sector building end-user services or applications based on government geospatial information?	29
7.5	Is the international donor community actively involved in the delivery of the SDI strategy?	41
	Pathway Score	e 35













Capacity & Education 8. Capacity and Education Current Is there a clear indication, such as an inventory, of the status and availability of 26 geospatial skills nationaly? Is capacity development and geospatial information education being addressed by 28 the SDI coordination or steering group? Are SDI needs being met by Research & Development (e.g. by the Universities)? 27 Are SDI needs being met by education (post school level courses)? Are SDI needs being met by training? (including Continuous Professional 24 Development programs)? Is there an active approach to knowledge and best practice sharing across 15 government and the private sector? Is there an active approach to knowledge and best practice sharing between countries in the region or through other capacity building partnerships between 30 countries? **Pathway Score** 26





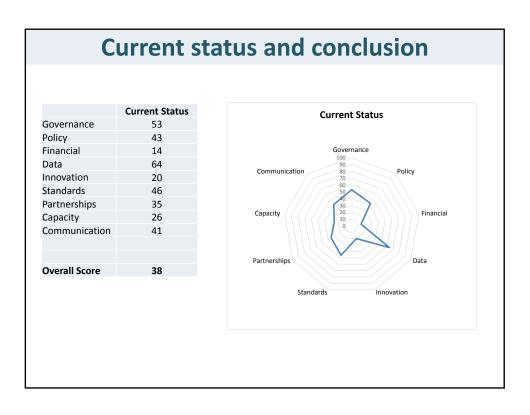


























Moldova: NSDI Diagnostic Tool Uses

Moldova: WB Project for \$35 million 2018-2024
C3. Support to the National Spatial Data Infrastructure (EUR 1.4 million)

- A Business Plan for NSDI
- Expansion of the current pilot project
- Datasets
- Integration with EU INSPIRE Geoportal
- Capacity building
- Standards
- CORS network support



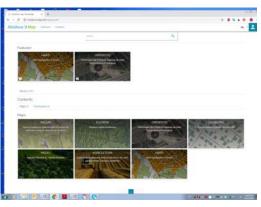


http://www.geoportalinds.gov.md/

Moldova: NSDI Diagnostic Tool Uses

Moldova: Norwegian Technical Support for NSDI 2006-2019

- Orthophoto images 2007
- Digital Terrain Model 2007
- GNSS MoldPOS Net
- Digital Maps for risk area
- MoldLIS in Cadastre
- Orthophoto images 2016
- Digital Terrain Model 2016
- Base Maps for NSDI (60 %)



https://moldova-map.md/mapstore/#/













Thank you for your attention!

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