

**LAND REGISTRATION AND PROPERTY VALUATION PROJECT**  
**Project ID No. P161238**

**Component C - Land Administration System Strengthening**  
**C 3.5 Capacities Building in National Spatial Data Infrastructure**

**Terms of Reference**

For a **Local consulting Firm to Strengthen the NSDI Capacity at the ALRC.**

## **INTRODUCTION**

The Government of Moldova received a credit from the World Bank Group - International Development Association in the amount of 30.1 million Euro toward the cost of financing Land Registration and Property Valuation Project (LRPVP), aimed at improving the quality of the land administration and property valuation systems and to enhance transparency of the property taxation system.

The Project consists of four components: (A) First Property Registration; (B) Property Valuation and Taxation; (C) Land Administration System Strengthening; and (D) Capacity Building and Project Management.

Component A ‘First Property Registration’ will support the first registration of public and private land in Moldova and strengthen the data quality for records already in the land register. This component will also organize mandatory public displays and public awareness campaigns to ensure citizens are engaged and aware of the procedures, activities, and benefits during first property registration

Component B ‘Valuation’ will support extending the system of mass valuation to incorporate those properties not currently included and to carry out a revaluation of the properties that are already in the mass valuation system but have not been revalued since 2008.

Component C ‘Land Administration System Strengthening’ will support the strengthening of the land sector in Moldova by facilitating policy dialogue and conducting a review of the existing institutional and regulatory frameworks, proposing improvement where possible. It will also encourage a development of simplified business processes and modernization of cadastre services through use of ICT, and support development of NSDI.

Component D ‘Capacity Building and Project Management’ will support capacity building at stakeholder agencies and institutions to ensure the smooth implementation of project activities and support project sustainability, as well as provide support for project implementation. A full description of the Project is provided in the document “Project Appraisal Document” (PAD)<sup>1</sup> and financing Agreement (FA)<sup>2</sup>.

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<sup>1</sup> <http://documents.worldbank.org/curated/en/491971535859109015/pdf/Moldova-Land-PAD-08132018.pdf>

<sup>2</sup> <http://documents.worldbank.org/curated/en/253281538510180437/pdf/ITKWB532331-20189021552.pdf>

## 1. Background

The Republic of Moldova has developed a roadmap for the implementation of a National Spatial Data Infrastructure (NSDI). The implementation plan for the National SDI has been created in accordance with the UN-GGIM Integrated Geospatial Information Framework (IGIF), its principles, and methodologies (see <https://ggim.un.org/IGIF/>). The aim of the National SDI is to deliver optimal use of geospatial information to support more effective and sustainable social, economic, and environmental development. The overall target outcome for the National SDI is to lead to the efficient, equitable, and optimal utilization and management of geospatial information applied across all sectors of the economy, for the benefit of the government and citizens of Moldova.

The Agency for Land Relations and Cadastre (ALRC) is the coordinating authority for the National SDI and is responsible for implementing policy in this domain. 28 Agreements of cooperation was signed with public entities during the last 10 years, including State Road Administration. A Steering Committee (the SDI Council) and some SDI Working Groups have been established. Moldova has a National SDI geoportal ([geoportal.linds.gov.md](http://geoportal.linds.gov.md)) and national metadata profiles have been adopted for spatial data and for spatial data services through Government Decision No 738/2017<sup>3</sup>. A Government Decision No 683/2018<sup>4</sup> on approval of the regulation on the rules applying to the interoperability and harmonization of spatial data sets and services has been adopted. This includes ISO standards and data standards compliant with the EU INSPIRE<sup>5</sup> Data Technical Specifications for Geographic information.

A significant milestone for the National SDI was the publication of Law 254 of 2016<sup>6</sup> on national spatial data infrastructures. This Law, together with various amendments, Government Decisions and Government Orders, provides the general rules, together with the necessary political endorsement, regarding the establishment of the National SDI. The scope of the Law includes all spatial data sets as specified in the annexes to the Law, data content, data availability, data sharing, metadata, interoperability of the data, data services, data access, data use, together with the relevant responsibilities of the public entities and third parties.

Over recent years the development of the National SDI has progressed through support from various donors including the United Nations, World Bank, European Union, and the Norwegian National Mapping Agency (Kartverket) through an ongoing engagement with its cooperation partner ALRC.

The National SDI ‘road-map’ prepared under the direction of ALRC comprises a number of coordinated reports<sup>7</sup>. These reports have been prepared in accordance with the IGIF framework. These include:

- a. IGIF Baseline Assessment - this report provides an assessment of the “as is” position of geospatial information management in Moldova structured around the IGIF pathways
- b. IGIF Geospatial Alignment to Policy Drivers - this report aligns the Government’s strategic objectives and international commitments to specific spatial use cases (applications)
- c. IGIF Socio-Economic Impact Assessment - this report provides an assessment of the socio-economic business case for investment in a National SDI from both qualitative

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<sup>3</sup> [https://www.legis.md/cautare/getResults?doc\\_id=101889&lang=ro](https://www.legis.md/cautare/getResults?doc_id=101889&lang=ro)

<sup>4</sup> [https://www.legis.md/cautare/getResults?doc\\_id=108815&lang=ro](https://www.legis.md/cautare/getResults?doc_id=108815&lang=ro)

<sup>5</sup> <https://inspire.ec.europa.eu/>

<sup>6</sup> [https://www.legis.md/cautare/getResults?doc\\_id=105790&lang=ro](https://www.legis.md/cautare/getResults?doc_id=105790&lang=ro)

<sup>7</sup> Copies of these reports may be available from ALRC on request

and quantitative perspectives. It is informed by the outputs from the two reports outlined above

- d. IGIF Action Plan - this report has developed the output from the previous reports and created a high-level geospatial strategy together with a corresponding costed plan/roadmap for the National SDI. This is presented as a series of interdependent policy interventions and implementation projects and includes actions linked to GGIM strategy pathways, proposed timescales, resource needs, together with an indicative forecast of costs.

In addition, complementing the development of the IGIF reports outlined above, a parallel activity by a team representing EU ENI 2020 (referred to as Twinning project MD 16 ENI OT 01 19) has completed a series of missions with ALRC. The objective of these missions was to identify opportunities for improvements to Spatial Data Services in Moldova based on EU standards viz 'Infrastructure for Spatial Information in Europe' (Inspire)<sup>8</sup>. A key component of this is the need for the harmonization of the NSDI datasets and guidelines and proposed methodology will be piloted in accordance with requirements identified as part of the EU Twinning Project<sup>9</sup>.

These terms of reference describe one role from a number of roles identified in the IGIF Action Plan prepared for Moldova. Through engagement with ALRC the objective of the mission described under this ToRs - is to provide support to Moldova with the implementation of its Integrated Geospatial Information Framework (IGIF) and thereby provide support for the continued development of the National SDI.

## **2. Purpose**

ALRC require additional capacity to effectively carry out the role of coordinating body for the implementation of the NSDI. There will be 6 (six) core activities required of the ALRC coordination team, as follows:

- (1) planning, administration, and project management of the implementation of the NSDI project,
- (2) provision of relevant technical advice to the SDI Council and stakeholder groups,
- (3) ensuring compliance of the NSDI implementation to relevant national and international standards, government laws, directives, procurement policies and guidelines, and other relevant government regulations,
- (4) data harmonization for the roads,
- (5) monitoring,
- (6) evaluation, and
- (7) reporting.

The purpose of the role of Consultant is to support and contribute to these activities as a member of the ALRC NSDI coordination team.

## **3. Scope of work**

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<sup>8</sup> <https://inspire.ec.europa.eu/>

<sup>9</sup> EU ENI 2020 Twinning project MD 16 ENI OT 01 19 'Improving Spatial Data Services in the republic of Moldova following EU standards'

ALRC is responsible for coordinating the implementation of the NSDI and for carrying out the tasks sufficient to ensure the successful implementation of the NSDI. The company will provide a team of at least three consultants to support the ALRC NSDI coordination team. The services to be provided include but are not limited to:

1. Assist ALRC in day-to-day administration and coordination of the NSDI project including engagement with the respective stakeholders and other agencies participating in the implementation of the NSDI
2. Working with key stakeholders in the review of the SDI project and associated data to ensure compliance with designated standards (EU Inspire) and existing data legislation
3. Providing implementation support to the NSDI working groups
4. Provide input to and support the preparation of technical specifications, standards for data use and maintenance, policies, and guidelines for cross government data management and access,
5. Participate in Workshops, trainings for data harmonization, meetings and round tables organized by ALRC as part of the EU Twinning Project,
6. Contribute to and monitor NSDI related activities including the development of relevant data processing and geo-processing models
7. Carry out appropriate research and analytics activities with the objective of more efficient production of NSDI geospatial data
8. Contribute to the quality control and data validation of NSDI related projects carried out by ALRC, other agencies, and contractors
9. Contribute to the coordination and monitoring of the data harmonization project to monitor compliance with the methods and guidelines developed as part of the EU Twinning Project (a pilot project to be initiated under the EU Twinning Project)
10. Provide support and contribute to the development of Technical Specifications for the State Register of Topographic Works
11. Contribute to the scheduling and facilitating meetings, seminars, conferences, workshops, and other related activities to encourage the cooperation and support of the public entities (stakeholders) responsible for geospatial data
12. Contribute to quality assurance on project management processes, including audits, reviews, compliance checks, configuration management, ensuring that projects comply with the relevant government legislation and standards relating to NSDI
13. Support the NSDI coordination team with the management of project controls, compiling, maintaining, and updating project plans, risks and issues registers, and the delivery of projects
14. Participate in other tasks and activities in support of the implementation of the NSDI as may be requested by the Head of Department Geodesy, Mapping & GIS (senior responsible owner for the NSDI Project)

#### **4. Deliverables**

This is a time-based contract/assignment; the Deliverables will be as defined by ALRC and may be amended by ALRC as the requirements of the project develop.

#### **5. Qualification Requirements**

**Company requirements:**

Consultants bidding for this work should state their assumptions in responding to these requirements, and if the requirement cannot be met, explain how the desired outcome would be achieved. Minimum requirements for the Consultant are:

- (a) A proven track record of at least 3 projects, related to similar assignment in size and complexity;
- (b) Previous experience in planning and implementation of Geospatial projects;
- (c) Previous experience in institutional capacity development to implement NSDI – considered an advantage;

### **Experts Requirements:**

The consulting company should nominate one of the key experts to be a Team Leader.

### **NSDI Team Leader**

- University degree in one of the following: Geodesy, Topography and Cartography; Geographical Information Systems or equivalent;
- Previous experience in leading and managing teams;
- Project management experience;
- 5 years of practical experience in geospatial information management;
- Practical knowledge of Open Geospatial Consortium (OGC) and ISO standards for geospatial interoperability, geospatial data formats, data management;
- Previous experience in NSDI infrastructure and services – considered an advantage;
- Previous experience in Moldova on implementation of geospatial services will be considered as an advantage;
- Fluent in Romanian language
- Knowledge of English will be considered as an advantage.

### **Geospatial Expert:**

- Bachelor degree in one of the following: Geodesy, Topography and Cartography; Geographical Information Systems or equivalent;
- 3 years' post qualification experience (PQE)
- Experience in the implementation and application of geospatial systems and data
- Experience of working on geospatial information projects or related fields in the collection, management, and use of geospatial information and the specifications relating to this
- Minimum 5 years of experience and knowledge with PostgreSQL + PostGIS, or Oracle DB and conversion tools like ogr2ogr
- Experience in database design, data migrations, backup and restore procedures
- Fluent in Romanian
- Knowledge of English will be considered as an advantage.

**Other experts:** The bidder has the responsibility to propose a team of experts with complementary skills and experience to ensure the high quality of all deliverables.

The consultant must provide information indicating that the proposed experts are qualified to perform the services (CV, description of similar assignments, experience in similar conditions, general qualifications, and other relevant information).

## **6. Reporting**

Reporting will include detailed monthly financial reports that will include the activity reports and timesheets of the consultants. The specific reporting requirements will be as directed by the General Director of ALRC through his nominated representative - the Head of Department Geodesy, Mapping & GIS (senior responsible owner for the NSDI Project). Deliverables, will be approved by ALRC and will be further submitted for clearance to PSA Cadastre Department/PIU.

## **7. Payment**

The deliverables and reports, specified in par. 4 and 6 above, will be the basis for the payments along with the invoices submitted on a monthly basis.

## **8. Duration of the Assignment**

The duration of this assignment is up to 24 months with a total of maximum 1300 working days for the team of at least 3 experts.

## **9. Language of the assignment**

The working language will be Romanian and all deliverables will be submitted in Romanian.

## **10. Selection**

The selection of the Consultants will be conducted in accordance with the World Bank Procurement Regulations for IPF Borrowers, dated July 2016, revised November 2017.

## **11. Client's contribution:**

The Client will assign a dedicated technical team to work with the consultant's experts during the entire contract duration. The dedicated team will provide the necessary documentation and information to the consultant.

The Consultant assigned experts shall work in the ALRC premises, using its own (Consultant's) equipment. ALRC will provide office space with furniture and communications (landline phone / internet) for the assigned experts;

**12. Location:** the activity/work will be performed at the office premises provided by Agency for Land Relations and Cadastre, 48 Serghei Lazo str, MD 2004, Chisinau.

## **13. Other**

Hours of work for Consultant's experts: 8 hours per day, 5 work days per week;