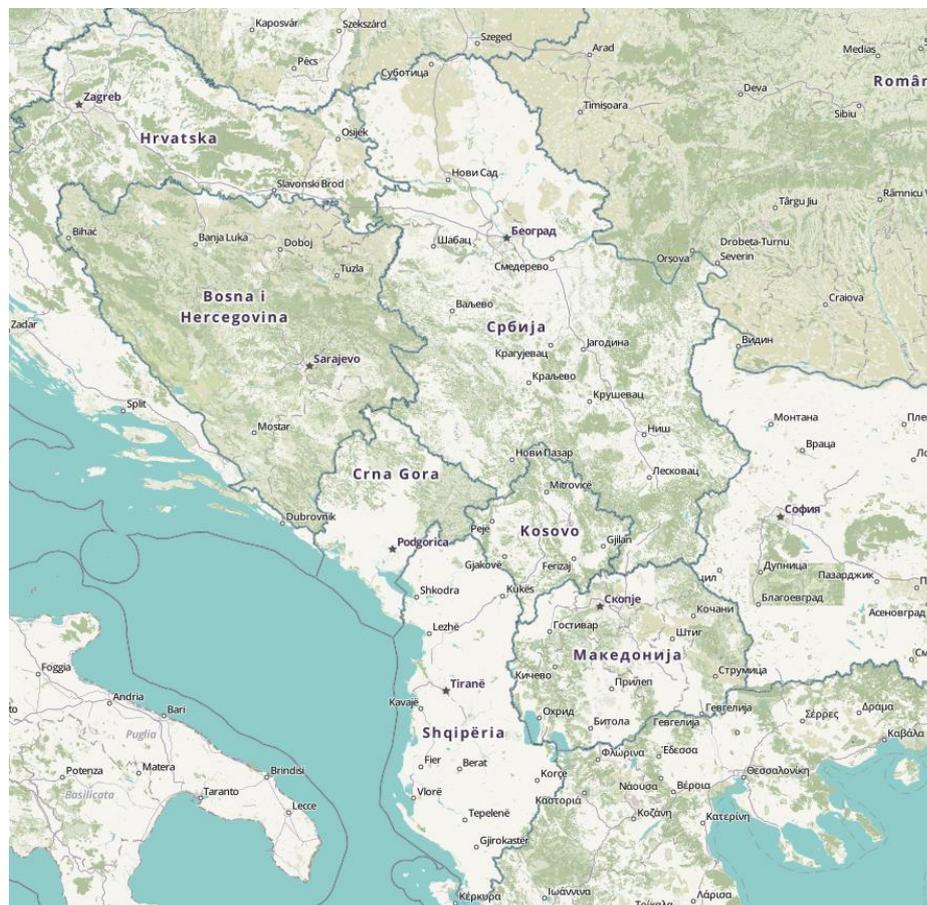


## Strengthening Professional Access To Information About Land II (SPATIAL II) in the Western Balkan region

### Proposal for follow-up project



## 1 Basic information

### 1.1 Project name

SPATIAL II – Balkan

Strengthening Professional Access To Information About Land II in the Western Balkan region

### 1.2 Implementing organization, contact

The Netherlands' Cadastre Land Registry and Mapping Agency (in short Kadaster)

Kadaster International

Ms Paula Dijkstra – paula.dijkstra@kadaster.nl

Hofstraat 110

7311 KZ Apeldoorn

+31 (0) 88 183 55 09

+31 (0) 6 52 06 2323 (cell)

### 1.3 Counterparts

#### NORTH MACEDONIA

Agency for Real Estate Cadastre (in short AREC)

<http://www.katastar.gov.mk/en/Default.aspx>

#### SERBIA

Republic Geodetic Authority (in short RGA)

<http://www.rgz.gov.rs/default.asp?LanguageID=3>

#### ALBANIA

State Cadastre Agency (in short SCA)

<http://www.ashk.gov.al/>

State Authority for Geospatial Information

(in short (ASIG)

<http://asig.gov.al/english/>

#### BOSNIA – HERZEGOVINA

Federal Administration for Geodetic and Property  
Affairs (in short FGU)

<http://www.kca-ks.org/en>

Republic Administration for Geodetic and Property  
Affairs (in short GARS)

<http://www.rgurs.org/en/>

#### KOSOVO\*<sup>1</sup>

Kosovo Cadastral Agency (in short KCA)

<http://www.kca-ks.org/en>

Archive Building / II Floor

#### MONTENEGRO

Real Estate Administration of Montenegro (in short  
REA)

<http://www.nekretnine.co.me/Default.asp>

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<sup>1</sup> \*:This designation is without prejudice to positions on status, and is in line with UNSC 1244 and the ICJ Opinion on the Kosovo declaration of independence.

In this document, when Kosovo is mentioned, this designation is considered we refer to this statement.

**1.4 Total amount requested**

1.159.423 EUR

**1.5 Period of implementation**

1 February 2020 – 31 December 2022

## **2 About SPATIAL II**

### **2.1 Access to reliable geospatial information in the Western Balkans**

Poor quality data costs economies billions each year. Time is wasted by users validating and correcting data themselves without providing feedback to the source holder. Resources are wasted through acting on decision based on poor quality data. Lives are put at risk through the inaccurate plotting of utility networks or the misrouting of emergency services. Revenues are lost from misdirect sales, marketing and service efforts. It is recognized that interoperable, reliable and qualitative geospatial information contribute to good policy formulation for the social, economic and environmental challenges. More and more digital data is made available by governmental organisations due to the advances in digital and communications technologies.

To stimulate further development and healthy economic growth in Europe, it is necessary to connect and combine the available local information sources beyond national borders. Transparency in property transactions, crime fighting, disaster response and prevention require authoritative high-quality geospatial information. It is crucial for adequate planning, decision making and safe transactions.

National governments and the European Union are harmonising information, including geospatial data and legal information related to land administration. This calls for a solid spatial data infrastructure. A complex process that requires institutional arrangements, standardisation, technology, directives, policies and dedicated professional networks.

Organisations involved in land registry and cadastre are often key players to support and deliver authoritative high-quality geospatial information to society. This is the case in EU member states, but also in the Western Balkans. These organisations are currently in full transition to become the authority to deliver reliable spatial information to society.

The follow-up project will further strengthen the professional access to information about land in the Western Balkans, now that we have a better and common understanding of the current situation in the region about the developments to deliver reliable spatial information to society.

The project will contribute to support the national mapping and cadastre & land registry agencies (NMCA) to achieve their goals related to:

- Effective Geospatial Information Management
- Increased Capacity, Capability and Knowledge Transfer
- Integrated Geospatial Information Systems and Services
- Improved Economic Return on Investment
- Sustainable Education and Training Programs
- Leveraged International Cooperation and Partnerships
- Enhanced National Engagement and Communication
- Enriched Societal Value and Benefits

## 2.2 Alignment with UN, EU, MATRA and SPATIAL I

### *International agenda related to SDGs and UNGGIM Geospatial Information Framework*

Geospatial information provides the integrative platform for all digital data that has a location dimension to it. All countries and all sectors need geospatial information for national development and decision-making. The Integrated Geospatial Information Framework (2018) is a United Nations endorsed Framework that was developed in collaboration between the United Nations and the World Bank with the intention to guide countries in the development and management of their geospatial information resources.

The Framework aims to assist countries to move towards e-economies, e-service and e-commerce to improve services to citizens, build capacity for using geospatial technology, enhance informed government decision-making processes, facilitate private sector development, take practical actions to achieve a digital transformation, and to bridge the geospatial digital divide in the implementation of national strategic priorities and the 2030 Agenda for Sustainable Development.

The mission of the framework is to promote and support innovation and provide the leadership, coordination and standards necessary to deliver integrated geospatial information that can be leveraged to find sustainable solutions for social, economic and environmental development.

More information is provided in Annex 2 as well as via the following link: <http://ggim.un.org/UN-GGIM-Intergrated-geospatial-information-framework/>

### *INSPIRE & ISA*

As mentioned before, all Balkan countries are (potential) candidate countries for EU membership. In this regard, they need to introduce several technical standards related to geospatial data according to EU regulations. One of the most important are the INSPIRE directive and ISA Programme.

ISA	INSPIRE
<p>The ISA<sup>2</sup> programme supports the development of digital solutions that enable public administrations, businesses and citizens in Europe to benefit from interoperable cross-border and cross-sector public services. ISA<sup>2</sup> consists of a series of Actions on different e-Government topics such as: European Interoperability Strategy, Framework and Reference Architecture (EIS, EIF and EIRA); semantic web and big data (including core vocabularies); secure information exchange and data access (including e-ID); e-Procurement platforms; ICT standardisation and EU location interoperability for e-Gov.</p> <p>ISA<sup>2</sup> is running from 1 January 2016 until 31 December 2020. The programme was adopted in November 2015 by the European parliament and the council of European Union. Solutions developed by ISA<sup>2</sup> and under its predecessor ISA are generally available for free and can be found <a href="#">here</a>. <a href="HTTPS://EC.EUROPA.EU/ISA2/ISA2_EN">HTTPS://EC.EUROPA.EU/ISA2/ISA2_EN</a></p>	<p>The INSPIRE Directive aims to establish a European Union spatial data infrastructure for the purposes of EU environmental policies and policies or activities which may have an impact on the environment. This European Spatial Data Infrastructure will enable the sharing of environmental spatial information among public sector organisations, facilitate public access to spatial information across Europe and assist in policy-making across boundaries.</p> <p>INSPIRE is based on the infrastructures for spatial information established and operated by the Member States of the European Union. The Directive addresses 34 spatial data themes needed for environmental applications. The Directive came into force on 15 May 2007 and will be implemented in <u>various stages</u>, with full implementation required by 2021. <a href="https://inspire.ec.europa.eu/about-inspire/563">https://inspire.ec.europa.eu/about-inspire/563</a></p>

### *The MATRA Programme*

The MATRA (Social Transformation) Programme was launched by the Dutch Ministry of Foreign Affairs in 1993 to support democratisation in Central and Eastern Europe. The general objective of the Programme is to contribute to the development of a plural democracy, grounded in the rule of law, with room for dialogue between government and civil society. This has been pursued through capacity building / institutional strengthening interventions aimed at government and civil society with particular attention for promoting bilateral relations.

MATRA supports activities that encourage the process of change and strengthen relations between the Netherlands and MATRA countries. The programme works with civil society and central and local authorities alike. Most projects take the form of twinning, i.e. partnership between a Dutch and a local organisation.

### *The 1<sup>st</sup> SPATIAL Project I*

The countries of the Western Balkan have the ambition to improve geospatial information harmonisation. The use of reliable and authoritative geospatial information will make policy and decision-making more efficient, and society will benefit from the transparency. Since 2017, Kadaster has been supporting its colleagues in the Western Balkan region to strengthen their professional access to information about land through this SPATIAL project: 8 agencies of 6 countries participated.

More than 20 regional workshops were organized in which each of the participating organisations shared their experiences and knowledge on the selected theme of the workshop. Kadaster facilitated round table discussions and the definition of quick wins and actions for each organisation. The workshops, with over 240 participants, have strengthened the regional network, creating better understandings of the addressed topics.

After 27 months, we have a good understanding of the status of all 8 agencies, their needs and their aspirations for future cooperation with the Netherlands. The aim is to continue the cooperation under the MATRA programme and further strengthen professional access to information about land at both national and regional level. The UNGGIM Geospatial Information Framework will be used as guidance.

### **2.3 Link with other donors and complementarity with existing projects (funded by other organisations)**

The National Mapping and Cadastre & Land Registry Agencies are involved in several other international projects. In total 17 different projects are identified. These projects are funded and executed by the following organisations:

- World Bank, executed by different parties through tenders
- EU, executed by different parties through tenders
- SIDA – Sweden, executed by staff of Lantmäteriet (Swedish NMCA)
- Norwegian Government, executed by staff of Norwegian Mapping and Cadastre Authority

- GIZ – Germany, executed by GIZ staff / tenders

During the donor coordination meeting in September 2019 at the Regional Conference in Neum, Bosnia and Herzegovina an overview was made of all the projects from the different donor organisations.

The table in Annex 3 provides an overview of the different projects with a short description, the duration and in which country the project is executed.



### 3 Objectives, components and budget

#### 3.1 Project purpose and objectives

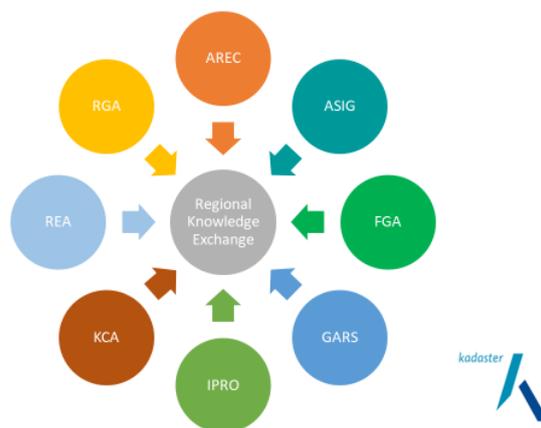
The project purpose is to further Strengthen Professional Access To Information About Land (SPATIAL II) in the Balkan region.

The project objective is to enhance the capacity of the National Mapping and Cadastre & Land Registry Agencies in Western Balkan region with the aim to provide society with reliable information about land for social and economic wellbeing.

#### 3.2 Identified topics for cooperation and components

During the last regional workshop of the 1<sup>st</sup> SPATIAL project, the Directors of each organisation, along with experts from the Netherlands, have determined their priorities and identified the topics they would like to exchange knowledge and experience about. SPATIAL II project is structured upon these conclusions. It uses the topics of common interest as the base for the regional component, while institutional components address the identified particular priorities. Below the components of the SPATIAL II project are described, as well as the priorities for each component. In Annex 4 detailed descriptions about each organisation is provided.

### SPATIAL II Project Components



3.2.1 Regional component. Jointly the directors of the involved organisations expressed their keen interest to continue with the regional workshops. These workshops were a success in the SPATIAL I project. They allowed experts to discuss on a dedicated topic and to learn from neighbouring countries. The practical experience and examples from the Netherlands helped them to get a better understanding of how they can further develop their systems. Hence, joint capacity building activities will be developed in the following topics:

- e-Governance
- Topographic maps (in cooperation with Statens Kartverket of Norway)
- Standardisation and Interoperability of geospatial Information

- Utility Cadastre (cables and pipelines)
- Gender Equality in Land rights (in cooperation with GIZ)
- Staff and HR development
- Strategic Partnerships for integrated Geo Spatial Information

3.2.2 North Macedonia - Agency for Real Estate Cadastre (AREC). This component will execute activities linked to:

- Address registry: defining data supply chains & delivery, and integration of data.
- Topographic Map: creating enhanced opportunities for innovation and creativity to bridge the digital divide.
- Institutional development: promoting a governance model that strengthens institutional mandates and builds a cooperative data sharing environment.

3.2.3 Albania - State Authority for Geospatial Information (ASIG). This component will execute activities linked to:

- Geospatial Information Policy: establishing a robust legal and policy framework to enable the availability, accessibility, exchange, application, and management of geospatial information.
- Establish modern CORS for Albania: defining data supply chains & delivery and integration of data.
- Capacity development of data providers of ASIG: increasing the awareness and level of understanding of geospatial information science. This includes developing and strengthening the skills and resources that organizations and communities require to utilize geospatial information for decision-making.

3.2.4 Bosnia Herzegovina - Federal Administration for Geodetic and Property Affairs (FGU). This component will execute activities linked to:

- Update cadastre and land registry: enabling FGU to meet the data management, sharing and use obligations to the government and the user community.
- Development of e-services and products: defining data supply chains & delivery and integration of data.
- Institutional development: promoting a governance model that strengthens institutional mandates and builds a cooperative data sharing environment.

3.2.5 Bosnia Herzegovina - Republic Administration for Geodetic and Property Affairs (GARS). This component will execute activities linked to:

- Land Consolidation
- IT architecture and migration of software: creating enhanced opportunities for innovation and creativity to bridge the digital divide.
- Further development of building cadastre & 3D cadastre: enabling GARS to meet the data management, sharing and use obligations to the government and the user community.

3.2.6 Kosovo Cadastral Agency (KCA). This component will execute activities linked to:

- Institutional development: promoting a governance model that strengthens institutional mandates and builds a cooperative data sharing environment.
- Data quality improvement: enabling KCA to meet the data management, sharing and use obligations to the government and the user community
- NSDI and e-services: defining data supply chains & delivery and integration of data.

- 3.2.7 Real Estate Administration of Montenegro (REA). This component will execute activities linked to:
- Improvement of the existing cadastral registers database: enabling REA to meet the data management, sharing and use obligations to the government and the user community.
  - Development of e-services and products: defining data supply chains & delivery and integration of data.
  - Institutional development: promoting a governance model that strengthens institutional mandates and builds a cooperative data sharing environment.
- 3.2.8 The Serbian Republic Geodetic Authority (RGA). This component will execute activities linked to:
- Institutional development: promoting a governance model that strengthens institutional mandates and builds a cooperative data sharing environment.
  - Improvement of data and information: enabling RGA to meet the data management, sharing and use obligations to the government and the user community.
  - HR and capacity building: increasing the awareness and level of understanding of geospatial information science. This includes developing and strengthening the skills and resources that organizations and communities require to utilize geospatial information for decision-making.
- 3.2.9 Albania – State Cadastre Agency (SCA). SCA is in newly established and the focus for the SPATIAL II has not been discussed yet. Therefore, their priorities will be identified later on as well as the activities of this component.

#### **4 Proposed Activities**

For SPATIAL II there are three types of activities to enhance the capacity of the National Mapping and Cadastre & Land Registry Agencies in Western Balkan region:

- Regional Workshops
- Expert Missions
- Visit to the Netherlands

Below the activities are described in detail.

##### ⇒ Regional Workshops

Format: For the SPATIAL II project, it is proposed to organize 4 Regional Workshops in total. The workshops will take place in the Western Balkan region. 3 technical experts of each NMCA and 3 Dutch experts are invited to participate in each regional workshop. During each workshop the participant will be asked to pitch about their experiences. This will be followed by an extended presentation from the Netherlands and interactive sessions dedicated to the theme of the workshop. On the 1st evening there will be a joint dinner. There will be a maximum of 30 participants. It is optional to extend the invitation to neighbouring countries like Croatia, Slovenia and Bulgaria.

Roles: The project manager will be responsible for the organization of the workshops together with the hosting NMCA. The two Dutch experts will be responsible for the content of the program.

Logistics: The project will cover the costs for accommodation and breakfast/lunch/dinner as well as the travel and local transportation costs.

##### ⇒ Expert Missions

Format: A team of three persons will participate in each expert mission. The proposed duration of an expert mission is 3 days. The SPATIAL I project learned that this is a reasonable amount of time for the staff of the NMCA. This allows them to combine the training or workshop with their other obligations. It is optional to send smaller teams on a mission once the project is on its way.

Roles: The project manager will prepare the outline of the mission and discuss the outline with the NMCA. The two experts are responsible for the content and reporting of the program.

Logistics: For the SPATIAL II project it is proposed to organize 32 expert missions, 4 per each NMCA.

##### ⇒ Visits to the Netherlands

Format: For the colleagues of the NMCA's, it is vital to see and experience how society in the Netherlands benefits from Effective Geospatial Information Management. A maximum of 8 participants of each NMCA is

invited to visit the Netherlands. It is optional to invite smaller groups to visit the Netherlands and / or to combine the visits of the NMCA's and / or to offer shorter visits.

Roles: Beforehand, the theme of the visit will be discussed. After that, the back office of Kadaster International will prepare a tailor-made programme for the 5-day visit. Presenters from Kadaster and other partners will be asked to contribute to the programme.

Logistics: For the SPATIAL II project, it is proposed to organize 4 visits to the Netherlands.

## 5 Implementing organization

The Netherlands' Cadastre, Land Registry and Mapping Agency (in short Kadaster) collects and registers administrative and spatial data on property and the rights involved since 1832. Doing so, Kadaster protects legal certainty. We are also responsible for national mapping and maintenance of the national reference coordinate system. Furthermore, we are an advisory body for land-use issues and national spatial data infrastructures.

Our information is available predominantly through online web services, including information on energy labels of houses and underground cables and pipelines. Our main customer groups are civil-law notaries, local authorities, businesses, financial institutions and private individuals. Kadaster maintains the Key Registers Cadastre and Topography. Kadaster also provides information from registrations of other parties. For them, we maintain so-called national facilities, by means of which we provide access to the data. Examples are the facilities for addresses and buildings, cables and pipelines, and energy labels.

Kadaster has designed, developed and implemented the NSDI of the Netherlands and is responsible for operation and maintenance on a daily basis. Kadaster is also the main national provider for the Infrastructure for Spatial Information in Europe (INSPIRE).

Information provision is another key task of ours. The information products from the registrations and national facilities come in various shapes and forms, such as: data files, formal documents or maps. Clients are able to acquire them through personal contact, by phone or through the Internet. To business clients Kadaster offers its web portal My Kadaster, to private citizens it offers the Web Store.

We also provide customised work and advice, predominantly to authorities. This refers to data selections and aggregations. Authorities obtain customised information which helps them develop spatial planning policies.

### *Organisation*

Kadaster is a non-departmental public body, under the political responsibility of the Minister of the Interior and Kingdom Relations. This is reflected in the way we are organised and the ways in which we publicly account for how we work. Its Executive Board is chaired by Mrs Dorine Burmanje.



### *International Relations*

Kadaster considers itself being part of the international land administration community. Therefore Kadaster invests in international relations to remain well-informed, to share knowledge in international and bilateral meetings, to be represented in organisations.

We are fully aware of the fact that we operate within an international environment. We encounter, for instance, European data standards and legislation but also fast rising technologies and digital ways of working. We aim to play a leading role and make sure we remain well-informed. For the benefit of a well-operating Kadaster, as well as the Dutch citizens.

Kadaster shares its knowledge and experiences outside the Netherlands. We do so by contributing to international congresses, conferences, publications and educational programmes. Through our quarterly newsletter Abroad we provide an outline of our activities and our perspective on recent developments. In addition, Kadaster is represented in the boards of several international organisations, such as the EuroGeographics, UN GGIM Europe and the WPLA (Working Party on Land Administration).



### *International Collaboration*

Kadaster is internationally active in the fields of information, education and research. This aim is rooted in our policy for corporate social responsibility. Together with ITC (University of Twente) we are responsible for the School for Land Administration Studies. Together with the Delft University, Kadaster developed the STDM/LADM concept. In collaboration with the World Bank and the International Federation of Surveyors (FIG), we developed the 'Fit-For-Purpose' approach. The idea behind 'Fit-For-Purpose' is that land administration should be designed to meet the needs of people and the environment.

We advise foreign governmental organisations about system design for land registration and geographic data. We also share our knowledge with organisations such as the World Bank and the International Federation of Surveyors (FIG). Kadaster maintains the 'International Office of Cadastre and Land Records' (OICRF), an international documentation centre on the issue of land registration.

### *International Consultancy*

The way in which land rights are registered in the Netherlands is internationally renowned. Kadaster has extensive knowledge and skills regarding land registration, land consolidation and providing geographic information. We believe it is our social responsibility to respond to applications of countries that have need for support on these issues, whether bilateral or in donor funded projects. If rights are registered, owners have legal security. A sound land registration is an instrument for economic development and improvement of living conditions.

In this respect our international consultancy practice is part of Kadaster's core tasks. Like all products and services of Kadaster, the aim is that the costs should be covered. The projects are often financed from available funds provided by possibly the Dutch Government, the European Commission, the United Nations and the World Bank.

Kadaster is a holder of NEN-EN ISO 9001:2008 and 27001:2005 Certificates.

## 6 Annexes

### Annex 1: Detailed information counterparts

#### ALBANIA

State Cadastre Agency (in short SCA)

<http://www.ashk.gov.al/>

Rruga "Dora D'Istria", Nr. 2

Tirana, Albania

Tel + 355 800 8811

State Authority for Geospatial Information

(in short (ASIG))

<http://asig.gov.al/english/>

Rr. "Papa Gjona pali II" Numer 3 Kati 2 Tiranë

Tel: +355 4 223 6762.

Email: [info@asig.gov.al](mailto:info@asig.gov.al)

#### BOSNIA – HERZEGOVINA

Federal Administration for Geodetic and Property  
Affairs (in short FGU)

[uprava@fgu.com.ba](mailto:uprava@fgu.com.ba) / [fugipp@bih.net.ba](mailto:fugipp@bih.net.ba)

Marka Marulića 2

71000 Sarajevo

+ 387 33 20 17 84

Republic Administration for Geodetic and Property  
Affairs (in short GARS)

<http://www.rgurs.org/en/>

Trg Republike Srpske no. 8,

78 000 Banja Luka

Tel: +387 51 338 000

e-mail: [uprava@rgurs.org](mailto:uprava@rgurs.org)

#### KOSOVO\*<sup>2</sup>

Kosovo Cadastral Agency (in short KCA)

<http://www.kca-ks.org/en>

Str. "Çlirim" No. 25

Archive Building / II Floor

1000, Prishtina

Republic of Kosovo

038 512 353

#### NORTH MACEDONIA

Agency for Real Estate Cadastre (in short AREC)

<http://www.katastar.gov.mk/en/Default.aspx>

Trifun Hadzijanev 4

1000 Skopje

North Macedonia

(02) 3204 800

#### MONTENEGRO

Real Estate Administration of Montenegro (in short  
REA)

<http://www.nekretnine.co.me/Default.asp>

Ul.: Bracana Bracanovića bb (preko puta Roda  
marketa)

81000 Podgorica

#### SERBIA

Republic Geodetic Authority (in short RGA)

<http://www.rgz.gov.rs/default.asp?LanguageID=3>

Boulevard vojvode Mišića 39

11040 Belgrade

Serbia

(011) 715 26 00

<sup>2</sup> \*:This designation is without prejudice to positions on status, and is in line with UNSC 1244 and the ICJ Opinion on the Kosovo declaration of independence.

In this document, when Kosovo is mentioned, this designation is considered we refer to this statement.

## Annex 2: UNGGIM Integrated GeoSpatial Framework

<b>VISION</b>								
The efficient use of geospatial information by all countries to effectively measure, monitor and achieve sustainable social, economic and environmental development – leaving no one behind								
<b>MISSION</b>								
To promote and support innovation and provide the leadership, coordination and standards necessary to deliver integrated geospatial information that can be leveraged to find sustainable solutions for social, economic and environmental development.								
<b>STRATEGIC DRIVERS</b>								
National Development Agenda • National Strategic Priorities • National Transformation Programme • Community Expectations • Multilateral trade agreements • Transforming our World: 2030 Agenda for Sustainable Development • New Urban Agenda • Sendai Framework for Disaster Risk Reduction 2015–2030 • Addis Ababa Action Agenda • Small Island Developing States Accelerated Modalities of Action (SAMOA Pathway) • United Nations Framework Convention on Climate Change (Paris Agreement) • United Nations Ocean Conference: Call for Action								
<b>UNDERPINNING PRINCIPLES</b>								
Strategic Enablement	Transparent and Accountable	Reliable, Accessible and Easily Used	Collaboration and Cooperation	Integrative Solution	Sustainable and Valued	Leadership and Commitment		
<b>GOALS</b>								
Effective Geospatial Information Management	Increased Capacity, Capability and Knowledge Transfer		Integrated Geospatial Information Systems and Services		Economic Return on Investment			
Sustainable Education and Training Programs	International Cooperation and Partnerships Leveraged		Enhanced National Engagement and Communication		Enriched Societal Value and Benefits			
<b>STRATEGIC PATHWAYS</b>								
<b>Governance and Institutions</b>	<b>Legal and Policy</b>	<b>Financial</b>	<b>Data</b>	<b>Innovation</b>	<b>Standards</b>	<b>Partnerships</b>	<b>Capacity and Education</b>	<b>Communication and Engagement</b>
Governance model Institutional structures Leadership Value proposition	Legislation Implementation and accountability Norms, policies and guides Data protection and licensing	Business model Investment Partnerships and opportunities Benefits realization	Fundamental data themes Data supply chain interlinkages Custodianship, acquisition and management Data curation and delivery	Technological advances Promoting innovation and creativity Process improvement Bridging the digital divide	Legal interoperability Semantic interoperability Data interoperability Technical interoperability	Cross-sector and interdisciplinary cooperation Community participation Industry partnerships and joint ventures International collaboration	Awareness raising Entrepreneurship Formal education Professional workplace training	Stakeholder identification Planning and execution Integrated engagement strategies Monitoring and evaluation
Knowledge   Decisions   Development   Society   Economy   Environment   Users   Citizens   Access   Technology   Applications   Value								



Date  
29-11-2019

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### Annex 3: International projects

Country	Project		Short description	Type of Support	Donors	Budget	Involved institutes
Region	SPATIAL Project	2017 - 2019 Finished	Strengthened professional access to information about land in the Western Balkan Region Macedonia: NSDI, Address Registry, Topographic Map Serbia: NSDI, Mass Valuation, Open Data, Institutional Strengthening, Service orientated organisation REGION: workshops on NSDI, Address Registry, Service Oriented organisation, Strategy Planning	Regional meetings, study visit, workshops & trainings, consultancy	Government of the Netherlands - MATRA	530.000 EUR	AREC/ASIG/FGA/GARS/IPRO/KCA/REA/RGA
North Macedonia	Address Register	2019 - 2020	Establishment of Address Register in the Republic		EU		AREC
Region	<a href="#">BESTSDI</a>	2016 - 2019	Support teaching and research process by		EU - Erasmus +		...
Region	GeoBizz	2020 - 2023	Support teaching and research process by		EU - Erasmus +		...



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North Macedonia	<a href="#">LIDAR</a>	2017 - 2020	Creation of digital terrain data necessary for mitigating the risk of flooding, monitoring of floods and for action in flood situations, as well as to reduce the costs of infrastructure projects and improve environmental protection and monitoring.	Services, consultancy, training and workshops	Government of Norway	539.000 EUR	AREC
North Macedonia	<a href="#">Establishing capacity for storage and distribution of electronic terrain data</a>	2018 - 2019	Development and installation of HW/SW solution	hw, sw	Government of Norway	205.000 EUR	AREC
Montenegro	<a href="#">Address Register</a>	2018 - 2020	The implementation of activities in Address Register development and making of a cartographic data model	Sw, services, consultancy, training and workshops	Government of Norway	285.000 EUR	REA
Montenegro	<a href="#">Improving production of topographic maps</a>	2018 - 2020	Development of modern data infrastructure for acquiring, managing, distributing digital map data and production of topographic maps.	Services, consultancy, training and workshops	Government of Norway	47.000 EUR	REA
Montenegro	<a href="#">Improving capacity for preparing sea maps of coastal areas</a>	2018 - 2020	Hydrographic survey of Boka Bay	Services, consultancy, training	Government of Norway	419.000 EUR	Montenegro Hydrographic Service
Region	<a href="#">Regional Geoid for the Balkans</a>	2017-2020	Since a geoid is the ratified framework on which mapping and measuring work in each country is based, creating a common geodetic reference frame for neighbouring Balkan countries will facilitate seamless combination of geographic data across borders.	Consultancy, hw, sw	Government of Norway	250.000 EUR	AREC/ASIG/FGA/GARS/IPRO/KCA/REA/RGA
Serbia (contract not signed)	<a href="#">IT Cyber security (initiated)</a>	2019-2020	Strengthening of information security capacities of RGA	hw, sw, consultancy	Government of Norway	400.000 EUR	RGA
Bosnia & Herzegovina	<a href="#">Capacity building of geodetic administrations in BiH to deal with climate change and reducing the risk of natural disaster</a>	2018-2020	The project will contribute to improving the environmental management by providing improved, more accessible and more reliable information on the natural environment, allowing more efficient and more accurate spatial use planning, while a special impact is expected in the spheres of dealing with climate change and mitigating natural disaster risks.	consultancy, hw, sw	Government of Norway		GARS / FGA
Kosovo	<a href="#">IT solution for property registration and address register</a>	2018-2021	Implementing a modern address system for Kosovo. As part of this support, Norway is funding the installation of road name signs in a number municipalities.	hw, sw, consultancy	Government of Norway	984.000 EUR	KCA
Albania	<a href="#">Albanian - Norwegian hydrographic information project</a>	2014-2019	Contribute to competence and capacity building for the Albanian Hydrographic Service (AHS) and the Military Geographical Institute (MIG).	hw, software, consultancy, training	Government of Norway	994.000 EUR	AHS, MIG
Albania	<a href="#">Reforming of Geo-Information Sector &amp; reposition of ASIG</a>	2017 - 2020	Enhance the capacity of the State Authority for Geospatial Information to provide geographic information to users	Consultancy, hw	Government of Norway	740.000 EUR	ASIG



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Regional	<a href="#">IMPULS</a>	2014 - 2019 (Finish in autumn 2019)	Development of a spatial information infrastructure in the western Balkan to accelerate the development of INSPIRE's innovative services for a better policy of drafting environmental policies, transparency in property registration, cadastre, property security for foreign investment in the country and achieving interoperability of the groups geospatial data and services as well as improvement of legislation.		Government of Sweden-Sida		Cooperation of relevant institutions (8) of involved countries (6) (GARS/AREC/ASIG/FGA /KCA/REA/RGA)
Serbia	<a href="#">Improvement of Investment Environment</a>	2018 - 2021	Purpose is to support Republic Geodetic Authority in establishment of a national register of investment maps and to support RGA in the establishment of a long-term sustainable cooperation with local government administrations and other public administrations responsible for spatial data		Government of Sweden-Sida		RGA
Bosnia & Herzegovina	<a href="#">CILAP</a>	2016 - 2019 (continuation under discussion)	Capacity building for improving land administration and procedures (address register / register of territorial units / register of real estate prices)		Government of Sweden-Sida		GARS / FGA
North Macedonia	Digital democracy	2019 - 20123	Cooperation for digital democracy . The purpose is to strengthen human and technical capacity of the Agency for Real Estate Cadastre in the following core areas; address registers, geodetic infrastructure, NSDI, ICT and scanning and digitization of documents.		Government of Sweden-Sida		AREC



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Albania	<a href="#">Digital topography</a>	2017 - 2020	Utilization of digital topographic map through making the digital topographic map and developing the capacity of topographic map production and accuracy I quality management of ASIG.		Japan International Cooperation Agency (JICA)		ASIG
Bosnia & Herzegovina	<a href="#">RERP - Real Estate Registration Project</a>	2012-2020	The objective of the Real Estate Registration Project for Bosnia and Herzegovina is to support development of a sustainable real estate registration system with harmonized land register and cadastre records in urban areas of both the Federation of Bosnia and Herzegovina (FBH) and the Republika Srpska (RS).		World Bank		GARS / FGA
Serbia	<a href="#">BESTSDI</a>	2016 - 2019 (October)	Support teaching and research process by improving the academic community in the field of geospatial data infrastructure		World Bank		GARS
Kosovo	<a href="#">REGIP - Real Estate Cadastre &amp; Geospatial Infrastructure Project</a>	2018 - 2023	To increase the quality and availability of land administration and geospatial data and services (Policy, Legal and Institutional Support / Cadastre Modernization / ICT and Geospatial Infrastructure / Project Management, Capacity Building, Public Outreach, and M & E)		World Bank		KCA
Serbia	<a href="#">Real Estate Management</a>	2015 - 2020	Improvement of efficiency, transparency, availability and reliability of real-estate management system in the Republic of Serbia.		World Bank		RGA

**Annex 4: Information about the involved National Mapping and Cadastre & Land Registry Agencies**

**AREC**

Organisation	AREC - Agency for Real Estate Cadastre
Organisational structure	<p>The Agency for Real Estate Cadastre acts in the capacity of a legal person with its rights, liabilities and responsibilities as stipulated by the Law on Real Estate Cadastre and for its operation reports to the Government of Republic of North Macedonia.</p> <p>AREC is managed by a Steering Board, comprised of five members, each representing the Ministry of Finance, Ministry for Transport and Communication, the Ministry of Environment and Spatial Planning and the Ministry for Agriculture, Forestry and Water Supply.</p>
Financial model	<p>Governmental budget + revenue from self-financing budget</p> <p>About 11 million EUR yearly</p>
Human Capital	861 employees
Number of offices	General Headquarters of the Agency for Real Estate Cadastre Centre for Real Estate Cadastre (REC) in Skopje + 7 Regions and 29 Local Departments for REC
Logo	
Website(s)	<a href="http://www.katastar.gov.mk/en/about-us/arec-organization/">http://www.katastar.gov.mk/en/about-us/arec-organization/</a>

**Priorities:**

- Address registry (consultancy)
- Topographic department support (automatization / generalization / thematic maps / development of training programme)
- Institutional development (re-organisation / education / long-term ambition)

**Responsibilities**

Geodetic survey	Yes
Topographic mapping	Yes
Cadastre	Yes
Land registration	Yes

Military mapping	No
Thematic mapping	No
Hydrographic mapping	No
Aerial photography	Yes
Satellite imagery	No
Marine mapping	No
Metrology	No
e-Government	No
National Spatial Data Infrastructure	No
Cadastré of Infrastructure objects, mass Property Valuation, Spatial Units Registry	Yes

#### ASIG

Organisation	ASIG - State Authority for Geospatial Information
Organisational structure	<p>A public institution with legal personality, subordinated to the Prime Minister's Office.</p> <p>By law 72/2012 "For the organization and operation of the national infrastructure of geospatial information in the Republic of Albania" ASIG is the coordinating and executive decision-making institution that oversees the implementation of Law 72/2012 and the regulations issued to it.</p>
Financial model	State funded
Human Capital	46 employees
Number of offices	<p>1 main office in Tirana</p> <p>State Authority for Geospatial Information</p> <p>Rr."Papa Gjona pali II" Numer 3 Kati 2 Tiranë</p> <p>Tel: +355 4 223 6762.</p>
Logo	 <p>Autoriteti Shtetëror për Informacionin Gjeohapësinor</p>
Website(s)	<p><a href="http://www.asig.gov.al">www.asig.gov.al</a></p> <p><a href="http://www.geoportal.asig.gov.al">www.geoportal.asig.gov.al</a></p>

#### Priorities:

- Sectoral policy document for geospatial information
- Establishing modern CORS for Albania
- Remote Sensing (capturing imagery – aerial / terrestrial (360 degrees))

**Responsibilities**

Geodetic survey	Yes
Topographic mapping	Yes
Cadastral	Yes
Land registration	Yes
Military mapping	No
Thematic mapping	Yes
Hydrographic mapping	Yes
Aerial photography	Yes
Satellite imagery	Yes
Marine mapping	No
Metrology	No
e-Government	No
National Spatial Data Infrastructure	No

**FGA**

Organisation	FGA – Federal Administration for Geodetic and Real Property Affairs
Organisational structure	Non-profit independent government administration / authority.  FGA performs administrative and other technical tasks that are under the authority of the Federation of Bosnia and Herzegovina.
Financial model	Revenue is almost entirely budget-based, smaller part is based on the sale of goods and services
Human Capital	35 employees (regular employees + project employees)  Municipality cadastral offices (79) + Cantonal MCAs (4) –approx. 500 employees
Number of offices	1 Head Quarters (no local offices)  In addition to the Federal Administration for Geodetic and Real Property Affairs of FBiH, there are also four cantonal-level standalone geodetic administrations, and 79 municipal departments responsible for geodetic and real property affairs, real estate cadastre, and land cadastre.
Logo	
Website(s)	<a href="http://www.fgu.com.ba">http://www.fgu.com.ba</a> <a href="http://WWW.KATASTAR.BA">WWW.KATASTAR.BA</a>

**Priorities:**

- Updated cadastre and land registry
- Development of e-services and products
- Strengthening institutions and capacity building

**Responsibilities**

Geodetic survey	Yes
Topographic mapping	Yes
Cadastre	No
Land registration	Yes
Military mapping	No
Thematic mapping	Yes
Hydrographic mapping	Yes
Aerial photography	Yes
Satellite imagery	Yes



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Marine mapping	No
Metrology	No
e-Government	Yes
National Spatial Data Infrastructure	Yes

### GARS

Organisation	GARS - Republic Administration for Geodetic and Property Affairs of the Republic of Srpska
Organisational structure	The Republic administration for geodetic and property affairs is an independent Republic administration.  Republic Administration for Geodetic and Property Affairs (RUGIPP) is an autonomous republic government defined by the Law on Republic Administration and Amendments to the Law on Republic Administration ( "Official Gazette of the Republic of Serbian", no. 118/08, 74/10 and 15 / 16).
Financial model	?
Human Capital	?
Number of offices	1 main office (internal organisation) 48 regional units and 15 branch offices (external organisation)
Logo	 
Website(s)	<a href="https://www.rgurs.org/en/uprava">https://www.rgurs.org/en/uprava</a>

### Priorities:

- Land Consolidation
- IT architecture and migration of software
- Further development of building cadastre & 3D cadastre

### Responsibilities

Geodetic survey	Yes
Topographic mapping	Yes
Cadastre	Yes
Land registration	Yes
Military mapping	No
Thematic mapping	Yes
Hydrographic mapping	Yes
Aerial photography	Yes
Satellite imagery	Yes
Marine mapping	No

Metrology	No
e-Government	No
National Spatial Data Infrastructure	No

### KCA

Organisation	KCA Kosovo Cadastral Agency
Organisational structure	Part of the Ministry of Environment and Spatial Planning (MESP)
Financial model	Government budget Revenues from products and services go back to Government budget
Human Capital	53 in Kosovo Cadastral Agency 380 in municipal Cadastral Offices
Number of offices	1 main office Kosovo Cadastral Agency (Governmental Level) 38 municipal Cadastral Offices (Local Level)
Logo	
Website(s)	<a href="https://mmph.rks-gov.net/en-us/Home">https://mmph.rks-gov.net/en-us/Home</a>

### Priorities:

- Organisational reform of KCA
- Data quality improvement
- NSDI and e-services

### Responsibilities

Geodetic survey	Yes
Topographic mapping	No
Cadastral	Yes
Land registration	Yes
Military mapping	No
Thematic mapping	Yes
Hydrographic mapping	No
Aerial photography	Yes



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Satellite imagery	No
Marine mapping	No
Metrology	No
e-Government	No
National Spatial Data Infrastructure	Yes

**REA**

Organisation	REA Real Estate Administration Montenegro
Organisational structure	Competent authority under Ministry of Finance
Financial model	State budget Fees for products and services Donations and loans from international projects
Human Capital	335 220 female, 115 male
Number of offices	1 Headquarter, 23 local offices
Logo	
Website(s)	<a href="http://www.nekretnine.co.me/">http://www.nekretnine.co.me/</a>

**Priorities:**

- Improvement of the existing cadastral registers database
- Improvement and development e-services
- Optimising of business procedures and processes

**Responsibilities**

Geodetic survey	Yes
Topographic mapping	Yes
Cadastral	Yes
Land registration	Yes
Military mapping	No
Thematic mapping	No
Hydrographic mapping	No
Aerial photography	Yes
Satellite imagery	Yes
Marine mapping	No
Metrology	No
e-Government	Yes
National Spatial Data Infrastructure	No



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Utility Cadastre	Yes
Registry of House Numbers, Streets and Squares	Yes
Register of spatial units	Yes
Evaluation of state property	Yes
Geographic names	Yes

**RGA**

Organisation	RGA Republican Geodetic Authority Serbia
Organisational structure	Special Governmental Organizations under Ministry of Construction, Transport and Infrastructure
Financial model	Fees for products and services State budget
Human Capital	2347 (February 2017) 2169 permanent, 178 temporary 1346 female, 1001 male
Number of offices	1 Main office, 170 municipal offices
Logo	 
Website(s)	<a href="http://www.rgz.gov.rs">www.rgz.gov.rs</a> <a href="http://www.geosrbija.rs">www.geosrbija.rs</a>

**Priorities:**

- Transformation of organisation and business model
- Improvement of data and information
- HR and capacity building leading to service oriented organisation

**Responsibilities**

Geodetic survey	Yes
Topographic mapping	Yes
Cadastre	Yes
Land registration	Yes
Military mapping	No
Thematic mapping	Yes
Hydrographic mapping	No
Aerial photography	Yes
Satellite imagery	Yes
Marine mapping	No
Metrology	No
e-Government	Yes



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National Spatial Data Infrastructure	Yes
Price register and mass valuation	Yes

**SCA**

Organisation	SCA State Cadastre Agency
Organisational structure	Subsidiary organization under Ministry of Justice
Financial model	
Human Capital	700
Number of offices	22
Logo	
Website(s)	<a href="http://www.ashk.gov.al/">http://www.ashk.gov.al/</a>

**Priorities:**

- ?

**Responsibilities**

Geodetic survey	Yes
Topographic mapping	Yes
Cadastre	Yes
Land registration	Yes
Military mapping	No
Thematic mapping	Yes
Hydrographic mapping	No
Aerial photography	Yes
Satellite imagery	Yes
Marine mapping	No
Metrology	No
e-Government	Yes
National Spatial Data Infrastructure	No



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