

# ACTIVITIES 2018 REPORT

Surveying and Mapping Authority of the Republic of Slovenia









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# 1 Address from the General Manager



## Looking back at 2018



The year 2018 was marked by many activities in the scope of The Programme of the projects 'eProstor' and international cooperation in addition to the regular tasks of real estate registration. In the implementation of its legal obligations, the Surveying and Mapping Authority of the Republic of Slovenia has been striving towards the strategic goal of transitioning from an administrator of spatial datasets to a data manager that enables urban and rural development and land management. This annual report describes activities and tasks carried out by the Surveying and Mapping Authority of the Republic of Slovenia. In my editorial, I wish to mention only a few key activities and accomplishments and hereby invite you to read the whole report.

On January 2018 the new Real Property Mass Valuation Act ZMVN-1 came into effect, which eliminated all inconsistencies with the Constitution of the Republic of Slovenia as deemed by the Constitutional Court of the Republic of Slovenia. This means that the generalized market value, based on ZMVN-1, can also be

used for taxation purposes. The same act also ceased the obligation for persons to report rentals of buildings and parts of buildings to the Surveying and Mapping Authority of the Republic of Slovenia. For buildings and parts of building rental agreements between persons, the landlord is obliged to report such agreements to the Financial Administration of the Republic of Slovenia with the personal income tax assessment regarding income based on renting of property.

Between the 13<sup>th</sup> and 14<sup>th</sup> January 2018, the recalculation of real estate value was carried out in the Real Estate Register for properties whose value has changed more than 10% from the last indexation. The new indexation used real estate value indexes as defined by the Government of the Republic of Slovenia in the Decree on Real Estate Valuation Indexes Determination and on the date March 31 2017.

The project Locational improvement of the graphical part of Land Cadastre has commenced in March 2018 in Novo mesto, Črnomelj and Kočevje. The entire project will be active from March 2018



until October 2020. Land surveying will be carried out in comprehensive areas based on neighbouring Cadastral municipalities.

The autumn of 2018 was marked by the transition to the new coordinate system. The Surveying and Mapping Authority of the Republic of Slovenia has performed the transformation (from D48/GK to D96/TM) of spatial data sets for which it is the resource provider. The Surveying and Mapping Authority of the Republic of Slovenia will provide its data sets in both the new and old coordinate system until 2021.

November was marked by a provision from the Real Estate Records Act – ZEN-A, defining that changes regarding the location and shape, dimensions, actual use of parts of buildings and year of construction cannot be changed by the appropriate questionnaire after November 22<sup>nd</sup> 2018. From that point on any changes require an expert elaborate of a surveying service from a surveying or construction company.

Also in November 2018, we organized the 4<sup>th</sup> Slovenian INSPIRE day at the Crystal Palace (BTC) that was attended by 110 attendees from different institutions implementing the INSPIRE Directive. On December 2018 we hosted the conference for the The Programme of the projects 'eProstor' at the EU House of

Slovenia that provided current results in regards to the different projects.

The Surveying and Mapping Authority of the Republic of Slovenia continued its international cooperation in 2018. In February we hosted the Macedonian delegation of the Real Estate Cadastre, led by the General Manager, Mr Boris Tundzev, and a cooperation agreement was signed with the Ukrainian Surveying and Mapping Authority. From the 23<sup>rd</sup> to the 25<sup>th</sup> of May we organized the 132<sup>nd</sup> EuroSDR session in Ljubljana. The EuroSDR is a pan-European organization encompassing the research interests of European states in the field of spatial data and operates as a network of national surveying and mapping authorities and research institutions. The session was attended by 34 participants from 18 countries. The sessions are being organized since 1953 when the organization was established in Paris under the name OEEPE.

During the closing plenary session of the UN-GGIM: Europe in Brussels in June, a vote for a member of the executive board of the UN-GGIM: Europe was carried out along with a change of the executive board chairman. The participants of the plenary session of the Regional European expert board for spatial data management, which operates in the frame of the UN, have appointed me, the representative of the Surveying and Mapping Autho-



city of the Republic of Slovenia, as the new chairman of the executive board of the UN-GGIM: Europe. This appointment represents an acknowledgement of the international presence of the Surveying and Mapping Authority of the Republic of Slovenia.

In 2018 we also concluded the international project SLICE3D and continued activities on the project HARMO-DATA.

I express my sincere gratitude to all my coworkers, who with their commitment and dedication contributed to the implementation of the work program of the Surveying and Mapping Authority of the Republic of Slovenia. I am certain that together we will be able to exceed our set goals.

Tomaž Petek  
General Manager  
Surveying and Mapping Authority of the  
Republic of Slovenia







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About the

# Surveying and Mapping Authority

of the Republic of Slovenia

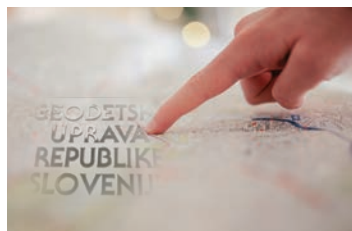




# Identity Card

The Surveying and Mapping Authority of the Republic of Slovenia is a body within the Ministry of the Environment and Spatial Planning. The competence of the Surveying and Mapping Authority of the Republic of Slovenia comprises the tasks of the national land survey service, which include the creation, management and updating of databases pertaining to the Basic Geodetic System, real estate, the State Border, spatial units and house numbers, and the Consolidated Cadastre of Public Infrastructure, as well as the Topographic and Cartographic System.

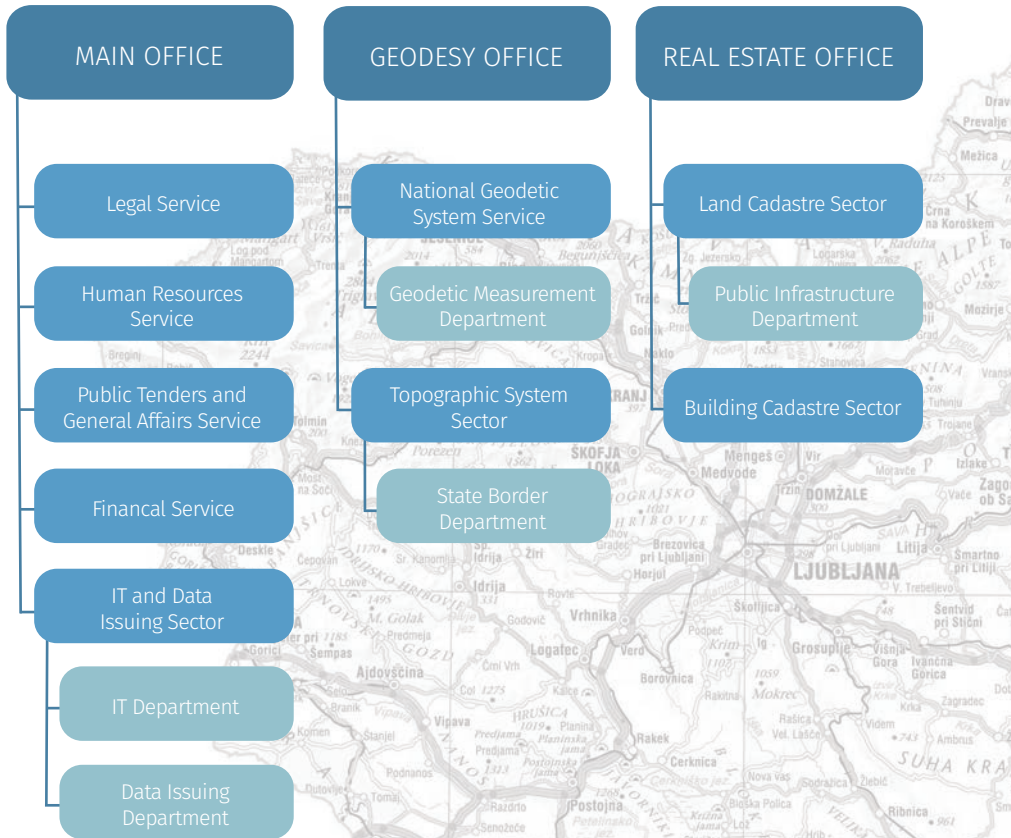
The Surveying and Mapping Authority of the Republic of Slovenia is responsible for basic data on space and real estate in the finalized databases, provides services pertaining to the registration of changes in physical space and on real estate, and performs the role of coordinator for the Real Estate System and Spatial Data Infrastructure.



In cooperation with the Ministry of Finance, it is carrying out Mass Real Estate Appraisal with the aim of creating the foundations for successful and efficient real estate management, to provide data for objective and comprehensive real estate taxation and improve the efficiency of the real estate market. It provides for the National Coordinate System and its compliance with the European Coordinate System and creates the conditions for implementing land surveys.



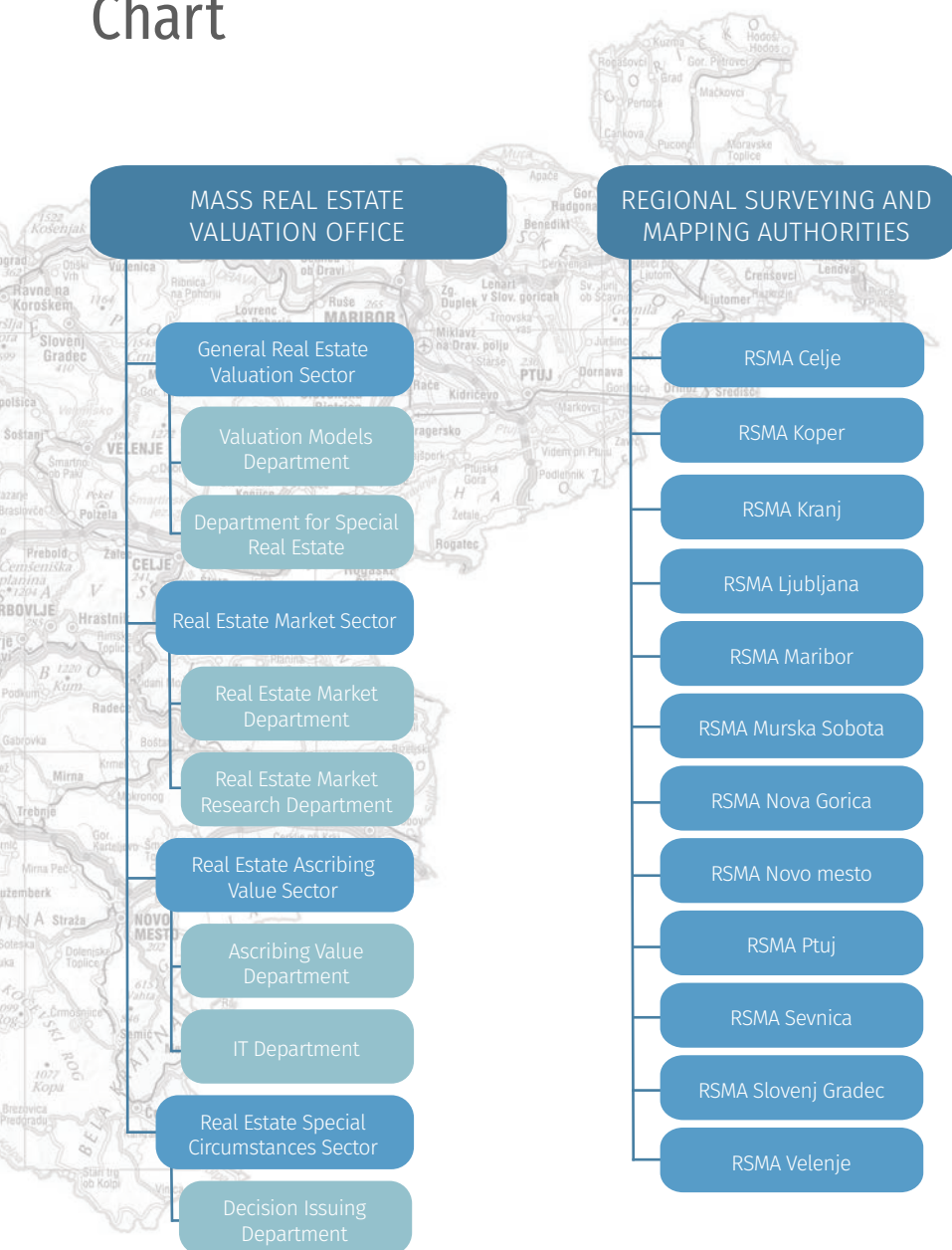
# Organization



The Surveying and Mapping Authority of the Republic of Slovenia comprises of the Main Office, the Geodesy Office, the Real Estate Office, the Mass Real Estate Valuation Office and twelve regional surveying and mapping authorities. The latter has been set up to streamline operations and increase the accessibility of administrative and professional tasks and services implemented by the Surveying and Mapping Authority of the Republic of Slovenia.



# Chart





# Work overview

of the Surveying and Mapping Authority of the Republic of Slovenia



## MAIN OFFICE

The Main office implements administrative, professional, technical and supervisory assignments related to the linking of spatial databases, the issuing of data and certificates in analogue and digital form, e-commerce with spatial data, spatial data infrastructure and informatization of the land survey service. It is the administrator for the information and telecommunication infrastructure, provides systemic, application and user support along with IT training and education. Additionally, it implements the assignments for providing assistance in resolving substantive legal matters of all the offices and regional surveying and

mapping authorities, financial operations, public tenders, human resources issues, education, office operation, health and safety in the workplace and other organizational assignments, important for the operation of the Surveying and Mapping Authority of the Republic of Slovenia. In the past year database consolidation and transition to the new horizontal coordinate system were successfully carried out.

## REAL ESTATE OFFICE

The Real Estate Office implements administrative, professional, technical, coordination and supervisory assignments pertaining to the administration of the Land Cadastre, the Building Cadastre, other records on real estate, administration of State Border records and assignments pertaining to landmarking, restoration and maintenance of the State Border. It implements assignments of administration of the Register of Spatial Units and the Register of House Numbers. It operates in an interagency capacity in the work of international committees and other assignments and projects. One of its assignments is also the substantive management and coordination of the work of the





regional surveying and mapping authorities in the field of real estate.

Alongside the normal proceedings regarding real estate records' management, the majority of activities in 2018 were focused on the improvement of real estate data quality and completeness.

In the area of data improvement, new surveys have been performed on smaller areas along with data adjustment analysis between field measurements and recorded land cadastre data. In the territories of many regional SMA offices, different control tasks were carried out along with recorded data harmonization (revision of the automatic classification of changed building and part of building data, processing of expert elaborates for surveying services, elimination of discrepancies in recorded building data – dimensions and real use). On the territory gained based on the Arbitration Court's decision Land Cadastre data was established and on specific areas along the national border with the Republic of Croatia additional data was acquired (land surveys and cyclical areal imagery) for the improvement of the locational accuracy of the graphical part of land cadastre. For approximately a third of



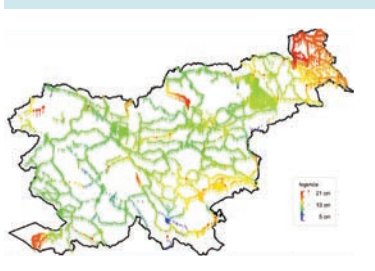
the country, an automated classification of unrecorded buildings was carried out. Data harmonization between borders of cadastral municipalities in the Register of Spatial Units and borders of land plots in the Land Cadastre was carried out. In the field of land survey data acquisition, a research assignment was started in cooperation with the Faculty for Civil and Geodetic Engineering. In the areas of real estate data management, administrative procedure management and data editing many structured seminars were carried out for the employees of the Surveying and Mapping Authority.

Normal operation was ensured in regard to the management and maintenance of



# Work overview

of the Surveying and Mapping Authority of the Republic of Slovenia



the Consolidated Cadastre of Public Infrastructure, which includes recording of public infrastructure objects and recording of network connection points.

## GEODESY OFFICE

The Geodesy Office is responsible for basic geoinformation infrastructure. It implements administrative, technical and coordination, implementation and supervisory assignments in the field of the National Geodetic System. It is responsible for the establishment and updating of the National Coordinate System and its accessibility through the system of permanent global satellite positioning stations and other ge-

odetic networks. It coordinates the assignments pertaining to the transition to the European Coordinate System and it is responsible for linking the National Coordinate System with the coordinate systems of the neighbouring countries. The office implements assignments in the field of acquisition and administration of national topographic data, it administers the topographic database, it is responsible for the National Cartographic System and ensures the creation of the national cartographic and topographic products. It ensures the compliance of the basic geoinformation infrastructure with the European guidelines. The office participates in European and international projects in the above-mentioned fields.

In 2018, the Geodesy Office ensured the operation of networks of permanent stations for satellite positioning – 16 permanent GNSS stations of the SIGNAL network and 5 permanent GNSS stations of the National Combined Zero Order Geodetic Network. Users were provided access to spatial positioning data. Field measurements were carried out to control the operation of the SIGNAL network, the heigh precision benchmark, gravime-





tric measurements, verification of land cadaster points and the improvements of the locational accuracy of land cadastre. Controls of acquired topographical data and cyclical areal photography data was carried out. Adjustment of the geodetic base with an additional reference point at the border was carried out along with procurement of new measurement equipment. Some first-order trigonometry columns were restored.

In the scope of the so-called targeted development programs the tasks "Increasing the reliability of the public zero-order GNSS network – SIGNAL" was carried out. A software program for data transformation was developed for public use, which utilizes the National Model for Triangular Transformation to transform data into the new National Coordinate System.

At the end of 2018 the new National Height System, designated SVS2010, with the height datum linked to the mareograph station Koper was implemented. This provides a homogeneous height base for the entire national territory. A new reference height surface (quasi geoid model) was also published.



At the EUREF symposium in Amsterdam the calculation of the GNSS campaign "EUREF Slovenia 2016" was confirmed and as a response, the EUREF 2018 Resolution No. 3 was passed. This means that Slovenia received a new horizontal geodetic datum realization with the designation D17, which will provide an improvement to the existing D96 datum.

Aerial photographs were created for the central part of Slovenia, aero triangulation, a Digital Relief Model as well as colour orthophoto along with quality control of project implementation. In accordance with standards of EuroGeographics (an organization representing Europe's National Mapping,



# Work overview

of the Surveying and Mapping Authority of the Republic of Slovenia



Cadastral and Land Registration Authorities) some supplements were made to individual spatial data layers of the EuroRegionalMap (ERM) and the EuroBoundaryMap (EBM). Six sheets of the National and the Military Topographic Maps (DTK and VTK 50, respectively) in a scale of 1 : 50 000 were restored. Topographic data were gathered for the National Topographic Model. In the field of cartography and topography activities were carried out for the Commission for the Standardization of Geographical Names as well as special assignments for the Ministry of Defence. Maintenance work was carried out on the State Borders with Italy, Austria and Hungary. Tasks de-

finied by international commissions were carried out.

## MASS REAL ESTATE VALUATION OFFICE

The Mass Real Estate Valuation Office implements the assignments of general real estate valuation and the tasks of ascribing value to real estate properties. Its main tasks are the development, establishment, implementation, management and maintenance of the Mass Real Estate Valuation System for taxation and other public sector needs. The Mass Real Estate Valuation Office carries out tasks related to ascribing value to real estate properties and monitoring of the real estate market, mainly data relating to real estate market prices and real estate rental.

In 2018 the Mass Real Estate Valuation Office carried out system maintenance tasks and ascription of the generalized values into the Real Estate Register due to provisions from the Real Property Mass Valuation Act ZMVN (National Gazette RS, No. 50/06, 87/11, 40/12-ZUJF, 22/14 – Constitutional Court decision and 77/17 – ZMVN-1) and tasks of real property mass valuation on the basis of the Real Property Mass Valuation Act





ZMVN-1 (National Gazette RS, No. 77/17) with emphasis on the process for defining valuation models. The information system of the Real Estate Valuation Data Set was maintained and upgraded, the production and distribution environment of the public Real Estate Valuation Data Set were managed and maintained, providing a good overview of the real estate market of the Republic of Slovenia, property transactions and business rentals were reviewed and processed in order to map the real estate market of the Republic of Slovenia and prepare regular reports on the real estate market. The system for mass real estate valuation was maintained and upgraded a substantive and IT manner, which enables the new process for the creation of valuation models and accompanying analysis for modelling purposes. Prototypes for an IT solution regarding the management of the Real Estate Valuation Data Set and the connected mass property valuation process manager were made, which enabled the establishment of the test valuation database. The process of defining the new valuation models in accordance with ZMVN-1 was commenced. A draft proposition for valuation mo-



dels was prepared and consultations were carried out with expert groups in the field of real property valuation, higher educational institutions covering the field of real property valuation and other expert public and municipalities as defined in Article 16 of ZMVN-1. After coordinating the proposed models with the expert public, the next coordination with the municipalities, as defined in Article 17 of ZMVN-1, began on November 2018. The remarks and proposals given by the municipalities with regards to the valuation models were revised in accordance with prescribed criteria for definition and calibration of valuation models and the revision was concluded in January 2019.

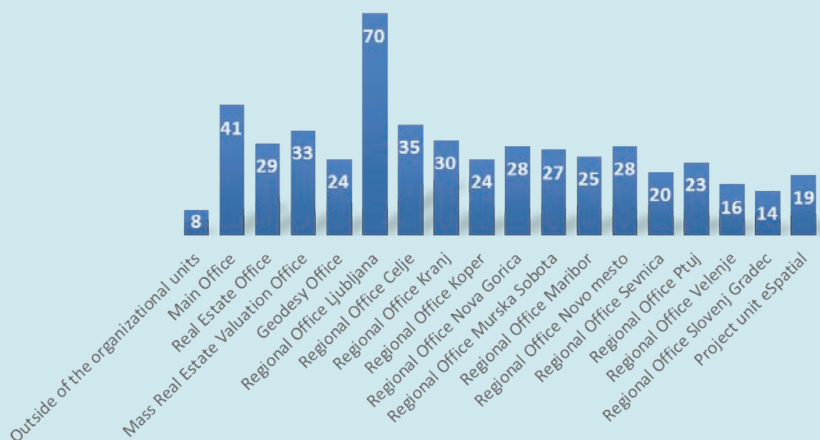


# Human Resources

On December 31<sup>st</sup> the Surveying and Mapping Authority of the Republic of Slovenia employed 494 people, consisting of 340 employees at the twelve regional surveying and mapping authorities and 154 employees at the central SMA Offices. The personnel structure is subjected to the adopted human resources plan of Public Administration. The number of employees has temporarily increased in the past year due to fixed-term temporary employment – or

the duration of The Programme of the projects 'eProstor'.

In the personnel structure, the main part represents surveyors with college or high professional education. In addition, the Surveying and Mapping Authority of the Republic of Slovenia employs lawyers, economists, agronomists, IT specialist and to a smaller degree administrative workers.

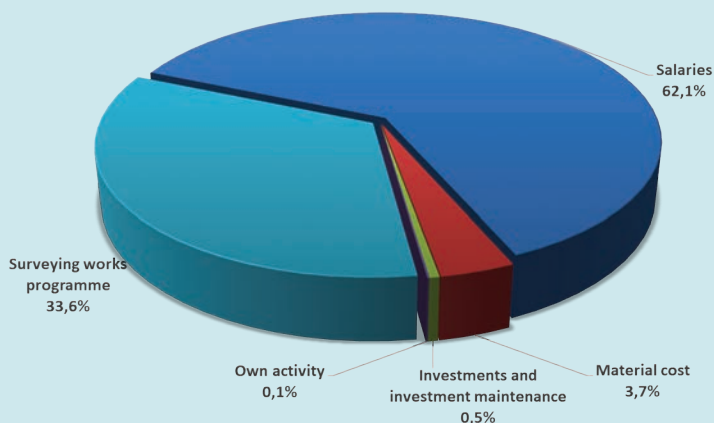




# Finance

The Surveying and Mapping Authority of the Republic of Slovenia is financed primarily from the National Budget and to a lesser extent from income generated by its own activities with the operation of permanent GNSS stations of the SIGNAL network. The annual geodetic work plan is confirmed by the Government of the Republic of Slovenia.

The adopted budget of the Surveying and Mapping Authority of the Republic of Slovenia for the year 2018 was € 24,718,642, while the valid budget after allocation of funds due to Government resolutions was € 22,522,032. The total financial realization of the valid budget was 98.81% (€ 22,252,953).





# 3

## International Activities





# International Activities

In 2018 the Surveying and Mapping Authority of the Republic of Slovenia has continued the ongoing international cooperation and participation in Institutions of the European Union, co-operation with neighbouring countries and countries in southeastern Europe as well as bilateral cooperation with other countries. The employees of the Surveying and Mapping Authority of the Republic of Slovenia are actively involved in different international organizations and associations. Alongside the longstanding membership in EuroGeographics – European National Mapping, Cadastral and Land Registry Authorities and the European Regional Committee of the United Nations Initiative on Global Geospatial Information Management (UN-GGIM: Europe), the Surveying and Mapping Authority of the Republic of Slovenia participates in EUREF – Reference Frame Sub-Commission for Europe of the International Association of Geodesy (IAG) in the PPC - Permanent Committee on Cadastre in the European Union as well as in the United Nations Economic Commission for Europe Working Party on Land Administration. A representative from the Surveying and Mapping Authority of the Republic of Slovenia is also chairman of the Executive Board of UN-GGIM: Europe. The Surveying and Mapping Authority

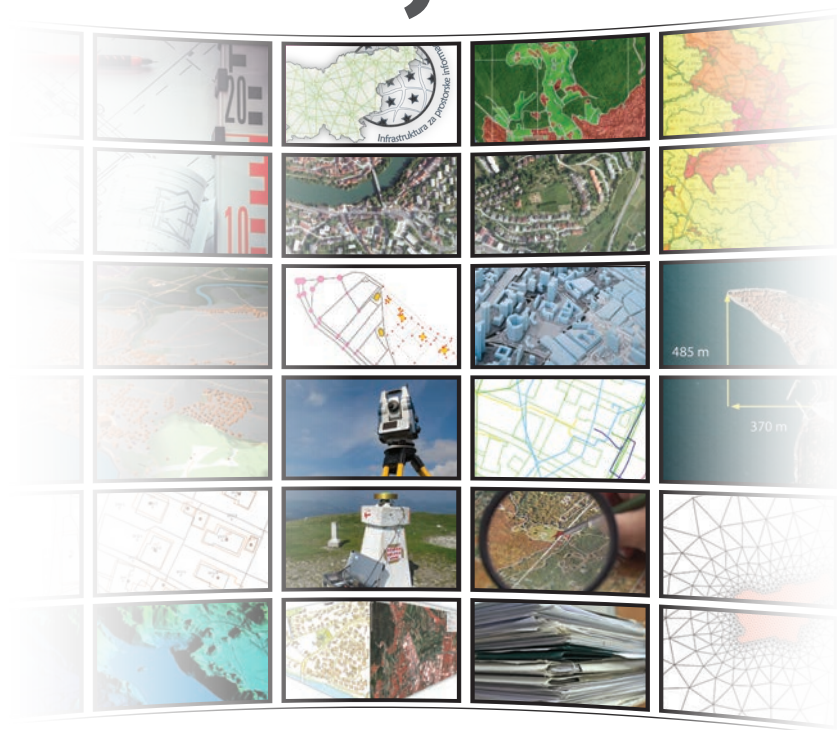


of the Republic of Slovenia and the Geodetic Institute of Slovenia (GIS) are members of EuroSDR, which unites surveying and mapping authorities and research institutions in carrying out development projects in the fields of geodesy and geoinformatics. In addition, we continued the activities for the design of strategic plans and international comparisons regarding the development of national surveying services using indicators for the implementation of strategic goals and implementation of the strategic project for the 2015-2025 time period.

In 2018 the Surveying and Mapping Authority of the Republic of Slovenia performed tasks as the National Contact Point (NCP) for the implementation of the INSPIRE Directive. As the NCP the Surveying and Mapping Authority of the Republic of Slovenia coordinates the establishment of the National Spatial Data Infrastructure (NSDI) in the Republic of Slovenia.



# 4 Projects





# Projects

In the last years the participation of the Surveying and Mapping Authority of the Republic of Slovenia (hereinafter: SMA) in large multidisciplinary projects, co-financed with European funds, has become a regular occurrence. The SMA participates in different consortiums with domestic and foreign partners. The most important is assuredly The Programme of the projects 'eProstor', where the SMA along with the Ministry of the Environment and Spatial Planning (hereinafter: MESP) acts as the project lead. In 2018 we were active in two additional international projects, SLICE3D and HARMO-DATA.

## Project SLICE3D

The SLICE3D (Slovenian Centre of Excellence on 3D geodata) one-year project was financed in the framework of the widening actions under the Spreading Excellence and Widening Participation part of Horizon 2020. The project's purpose focused on the preparation of a scientific and innovation strategy together with the business plan for the realization of the Centre of Excellence. The main idea of the centre was to strengthen the research and innovation capacities of Slovenia in the fields of geo-data acquisition and 3D/4D geo-data modelling and consequently also in other fields related to geo-data and spatial decisions. The ambition was to create a Centre of Excellence, which would achieve strong medium and long term scientific presence at the European and wider international



level. The project was led by the University of Ljubljana, Faculty for Civil and Geodetic Engineering.

## Project HARMO-DATA

The project titled "Harmonisation of data for cross-border land management – HARMO-DATA" was a project approved in the framework of the INTERREG V-A Italy-Slovenia 2014-2020 Programme. The general objective of the project is to strengthen the cross-border institutional cooperation between public authorities and key spatial planning operators and implementation of shared solutions for coordination and effective land management. The establishment of a common cross-border spatial platform compliant with the INSPIRE Directive will provide an innovative solution in a field where uncoordinated spatial management is commonplace. In 2018 the common platform has been designed and prepared for the implementation of the data model and spatial data harmonization along with the actual data model and spatial data harmonization.





# eProstor

SHARING THE SPACE

[www.projekt.e-prostor.gov.si](http://www.projekt.e-prostor.gov.si)

# The Programme of the projects 'eProstor'

The investment is co-financed by the Republic of Slovenia and the European Union under the European Regional Development Fund.

"Greater transparency and efficiency in spatial planning, construction and real-estate management."



REPUBLIC OF SLOVENIA  
MINISTRY OF THE ENVIRONMENT  
AND SPATIAL PLANNING

THE SURVEYING AND MAPPING AUTHORITY  
OF THE REPUBLIC OF SLOVENIA



REPUBLIC OF SLOVENIA  
MINISTRY OF THE ENVIRONMENT  
AND SPATIAL PLANNING



EUROPEAN UNION  
EUROPEAN REGIONAL  
DEVELOPMENT FUND  
INVESTING IN YOUR FUTURE



eProstor  
SHARING THE SPACE

I FEEL  
SLOVENIA



# The Programme of the projects 'eProstor'

The Programme of the projects 'eProstor' is part of the Operational Programme for the Implementation of the EU Cohesion Policy 2014-2020 (CCI 2014SI16MAOP001), specifically the second Priority Axes titled "Enhancing access to, and use and quality of, information and communication technologies". A detailed description of activity implementation is provided in the Implementation Plan for the Operational Programme for the Implementation of the EU Cohesion Policy in the Period 2014-2020, which was passed by the Government of the Republic of Slovenia.

The main purpose of the The Programme of the projects 'eProstor' is to provide improved transparency and efficiency in the field of spatial planning, construction and real estate management.

The Programme of the projects 'eProstor' supports actions for the establishment of a common infrastructure for spatial information compliant with the INSPIRE Directive in Slovenia. The Spatial Information System will be established along with the renovation of the real estate records system. Everything mentioned will enable e-commerce when applying for a building permit, preparing a spatial act or registering real estate. To support the envisioned e-commerce in the new information system the tasks of digitalizing the real estate records archive and national spatial acts are being carried out. Additionally,



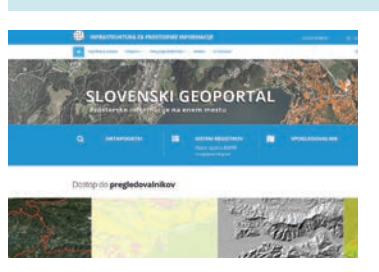
the spatial accuracy of the graphical part of Land Cadastre will be improved and data acquisition of build-up construction land will be carried out.

The Programme of the projects 'eProstor' will be a major contributor to a more competitive and green economy, improving the business environment and support businesses in the field of spatial planning, construction and real estate registration and it will also remove administrative barriers. It will enable e-commerce (paperless business) of the public sector and for businesses working with the public sector real estate and spatial data will be easily accessible. All this will enable faster and simplified commerce for business entities when dealing with any of the events regarding spatial management, construction and real estate management.

The key goals of the individual projects are described here along with the main tasks that were carried out or have started in the year 2018.



# Common Infrastructure for Spatial Information



The Project is being carried out by the SMA and the MESP and will be carried out till 2021.

Project goals:

- establishment of needed coordination mechanisms for the operation of the Common Infrastructure for Spatial Information,
- establishing a network of spatial data providers and users,
- establishing a network of services related to spatial data and ensuring conditions for continuous spatial data flow between Public Authorities of the Republic of Slovenia and data exchange with

the Bodies of the European Commission and the EU Member States.

The focus of activities in 2018 was reviewing the state spatial data sets and establishing communication with spatial data set resource providers. Many events were organized: workshops for spatial data set resource providers highlighting activities needed to improve compliance with the INSPIRE Directive and the Spatial Information System, workshops regarding spatial data set and service metadata creation and editing, workshop for the use of specific software solutions for the implementation of the INSPIRE Directive and many workshop with participation from international experts meant to inform the expert public of resource providers with current topics regarding the common infrastructure for spatial information. Activities were carried out in order to inform the expert public on the proceedings of the project (digital communication, publications, different written materials, events and seminars, printed materials and other means of public informing).





A new version of the Slovene Geoportal was deployed and different ways to provide data sets through the INSPIRE infrastructure were considered.

In the area of monitoring and reporting the basis for an automated process of monitoring and a simplified process for reporting was prepared. A state of the land analysis regarding the spatial data set and service metadata inside the Slovene infrastructure for spatial information was produced. In the frame of establishing network services for spatial data sets of the Spatial Information System activities regarding the identification of Priority Data Sets began in 2018. The INSPIRE (SI) metadata system was upgraded. It has an improved help interface for users as well as editors. It now provides a user manual, along with the Metadata Profile, and for registered editors also a manual for metadata editors. Issues regarding displaying, discovering and accessing metadata were dealt with as they appeared. The upgrades also include an integrated thesaurus for the identification of Priority Data Sets



via keywords. Many spatial data set and service metadata now also include translation in English.

A concept for the renovation of the distribution environment, which provides conceptual starting points for the renovation of the distribution environment of the SMA was produced. The purpose of the renovation of the distribution environment is to provide high quality and up to date services to a wide userbase. Based on this concept the drafting of a public tender for a new distribution system has begun.



# Spatial Information System



The Project is being carried out by the MESP, namely the Spatial Planning, Construction and Housing Directorate.

Project goals:

- establishment of the Spatial Information System,
- establishing needed data sets,
- transition to e-commerce in the procedures of spatial management and construction.

At the end of 2017, the spatial management legislation and construction legislation were passed, which provided the necessary legal framework for the Spatial Information System with its spatial data sets (Database of Spatial Plans, Register of Legal Acts

in the field of construction, Urban Land Use database, Building land Registry) and e-commerce.

In the first months of 2018, the new spatial management legislation and construction legislation were presented to different stakeholders: Municipalities, Administrative Units, Ministries and other responsible parties in spatial management. The MESP has in spring established the web platform Spatial Information System (PIS) where data on spatial acts are publicly accessible. At the beginning of 2018, a contract was signed for an information system support in the field of spatial planning and construction. In the scope of the contract, the first phase was carried out. The implementation plan was prepared and approved by the Ministry of Public Administration and the MESP. Work continues on the second phase (system development).

In 2018 the model was made for the definition of exchange formats for vacant build-up land data and their development stages along with procedures for data import of vacant build-up land data and their development stages. A proposition for the technical documentation of the public tender for the information system for actual land use





of construction land was prepared and the proceedings in the field of establishing and maintaining the actual land use of construction land data set were presented to local government and support was provided for them. Harmonized propositions and solutions for the further development of the actual land use of construction land data set were provided.

Activities have commenced regarding the establishment of the initial data state of specific national and local decision-makers of the Prekmurje region and specific Municipalities of the southeastern part of Slovenia. Expert and substantial support were provided for the planning and implementation of the pilot data set of decision-makers in the developing information system and the initial data state of specific national and local decision-makers of the Prekmurje region and specific Municipalities of the southeastern part of Slovenia were established in the Spatial Information System.

A draft methodology and starting points for the establishment of (sub)system for monitoring intervention in space in the area of construction was prepared along with a proposition for the use of data in an integrated and comprehensive approach

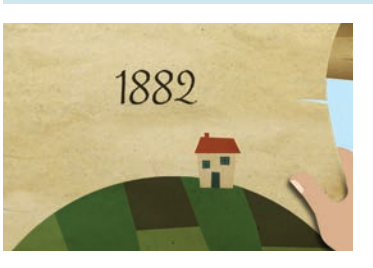


to monitoring of the processes of spatial planning, construction, real estate registration and inspection along with the requirements for the development of information system.

Vector data on planned land use and spatial management units from municipal spatial acts, which are archived in the spatial information system, were transformed from the D48/GK coordinate system into the D96/TM coordinate system. The indicators of the monitoring system for spatial development were updated. Based on additional input data new indicators for spatial development were prepared and imported into the application.



# Renovation of the Real Estate Records System



The Project is being carried out by the SMA and will continue until 2021.

Project goals:

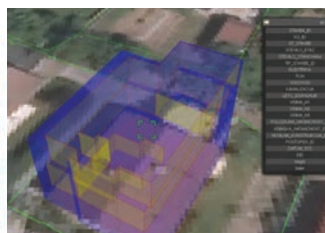
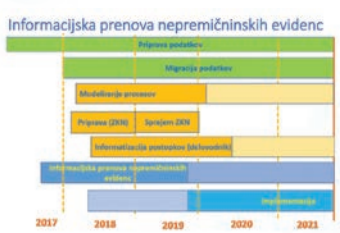
- IT renovation of the Real Estate Records System (Land Cadastre, Building Cadastre, Register of Spatial Units, State Border),
- transition to e-commerce in the field of real estate registration.

In the scope of this project, the implementation project was prepared, the first phase of software development was carried out and the second phase of software development was commenced.

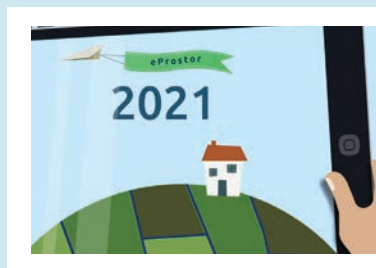
In the area of modeling real estate registration process and changes in the organizational structure of the SMA the key processes in real estate registration were identified and modeled (in compliance with the Real Estate Cadastre Act) and a new organizational proposition for the SMA was designed along with customer support organization and establishment and organization of the IT services of the SMA. In 2018 a draft for the Real Estate Cadastre Act was prepared and given to the expert public to comment on. At the end of 2018, a conference was carried out at the Faculty of Law regarding the draft of the Real Estate Cadastre Act.

Contracts were signed for the financing of public authorization tasks and the development of technical tasks in the area of renovating the real estate records, which encompass individual activities. Tasks regarding data management and preparation for data migration into new system were carried out as well as recording of the national bor-





der and municipal borders in the Land Cadastre, many public tender technical specifications were prepared (inclusion of processes in the renovation of the real estate records system, implementation of the renovated system), a products catalogue, control of vectorized floor plans and monitoring and managing activities regarding the renovation of the real estate records system.



In the scope of preparing the data for migration into the new model data harmonization of land plot numeration was concluded (numeric changes of land plots divided by roads) and owners were informed of the changes. Based on data on the climate, relief, incline and additional terrain measurements the graphical display of land rating values areas were harmonized. This means an improvement to the graphical display, which is used as one of the key professional basis when defining and reviewing land bonuses. New actual use of parts of buildings and building rooms registration was implemented.

Based on the implemented system for floor plan data vectorization, the system has been put in to practice. 430,818 land parcel parts were converted to land parcels under buildings. The data migration system was changed to include building and parts of building data.



# Renovation of the Real Estate Records System



## TRANSFORMATION OF SURVEYING AND MAPPING AUTHORITY OF THE REPUBLIC OF SLOVENIA'S DATA INTO THE NEW COORDINATE SYSTEM

The operational part of the transformation of SMA's data was carried out along with information and coordination activities for users and producers of spatial data sets, that have not yet transformed into the new national coordinate system.

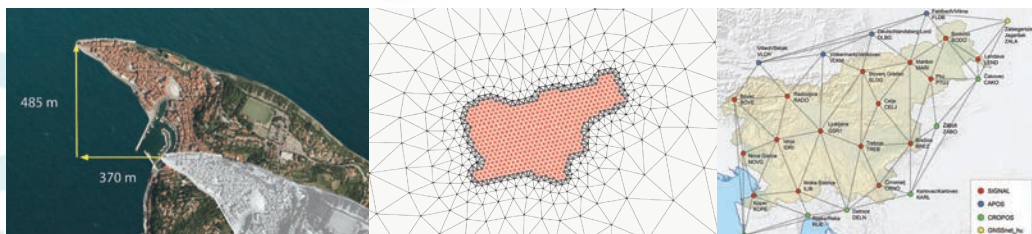
The spatial information infrastructure in Slovenia is highly developed. For the display, use and national and internati-

onal connectivity, we need a modern coordinate system in line with the European and global coordinate system. Providing such connectivity and data transformation were the goals of the project regarding data transformation into the new coordinate system, which was carried out by the SMA and in the frame of The Programme of the projects 'eProstor' in 2018. The incredible challenging data transformation was successfully concluded at the beginning of 2019 and Slovenia has become one of the first European countries to achieve it.

In implementing the new coordinate system D96/TM, which is compliant with the European coordinate system, Slovenia has followed the proposition of the INSPIRE Directive, the UN Resolution for Geospatial Data and the everyday needs for spatial data.

The spatial data were transformed using the national triangular transformation that considers the deformation of the old D48/GK system. Following





was the transformation of individual data sets managed and maintained by the SMA until the summer of 2018 those were the location data of the topographic data set, digital orthophoto, Geographical Names Register, Digital Relief Model and Digital Height Model. The transformation of the central database of geodetic points and the National border record did not need to be transformed, as the coordinates were already recorded in the new coordinate system. In the scope of the project, the SMA transformed data from the Land Cadastre, Building Cadastre, Real Estate Register, Register of Spatial Units, Consolidated Cadastre of Public Infrastructure and the Real Estate Valuation Data Set.

The coordinate designation in the old system is y and x while in the new it is e and n. In addition to the designation, the number of values of the coordinates has also changed. The numeric value difference of the same coordinate point between the old and new

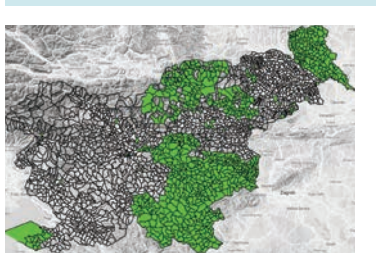


systems is around 370 m East-West and 485 m North-South.

The SMA will provide data in both coordinate systems until 2021 and after that only in the new coordinate system. The SMA realizes that system transition from one system to another is demanding, so it will provide spatial data managers and other users a free software solution for data transformation, expert help and support with transitioning into the new coordinate system.



# Data Acquisition and Data Quality Improvement



The Project is being carried out by the SMA that is responsible for the improvement in accuracy of location data of the graphical part of the Land Cadastre and digitalization of the archive of the SMA, while the acquisition of actual land use of construction land is being carried out by the MESP, Spatial Planning, Construction and Housing Directorate.

Project goals:

- digitalization of the archive of expert elaborates of cadastral measurements,
- improvement in accuracy of location data of the graphical part of the Land

Cadastre,

- acquisition of actual land use of construction land.

In the time period of this report, 1,411,500 pages of archived documents of the Building Cadastre and 1,120,541 pages of archived documents of the Land Cadastre were digitalized. 1430 documents containing graphical data were georeferenced.

In 2018 a public tender was successfully carried out for the improvement in accuracy of location data of the graphical part of the Land Cadastre, meant to provide additional connection points for improvement of the accuracy of location data for altogether 38 sets of cadastral municipalities over 10 phases. The outside contractor provided additional data with the help of land survey measurements and acquisition of data based on areal imagery (linear and orthophoto) – connection points and other conditions (collinearity, squareness, parallelism) for the improvement in accuracy of location data of the graphical





part of the Land Cadastre. Data acquisition was carried out for the first three phases of the project, while the entire operational execution was concluded for the first two phases/locations. The operational team of the SMA has finished its tasks for phase two data. The improvement in accuracy of location data of the graphical part of the Land Cadastre has thus been completed for the territory of Regional SMA offices Murska Sobota, Lendava, Novo mesto, Črnomelj, part of the coastline and part of the Regional SMA office Kočevje. Additionally, 215 cadastral municipalities in the Posavje and Zasavje statistical regions, belonging to the Regional SMA offices of Brežice, Sevnica, Krško, Trbovlje and Litija, were improved regarding location accuracy. In 2019 data processing is continuing for phase 3 data (Carinthia, part of the Savinjska and Podravska statistical regions). The complete number of processed cadastral municipalities at the end of 2018 was 702, representing 26% of all cadastral municipalities. The Geodetic Institute of Slovenia has and



will continue its independent control of additional data acquired for the project.

In the scope of the task acquisition of actual land use of construction land data was carried out for phase one (Prekmurje region), phase two (South-East part of Slovenia, Piran and Izola municipalities) and part of phase three (Posavje and Zasavje regions). Altogether, data acquisition was carried out in 376 cadastral municipalities, meaning around 21% of all construction land in Slovenia. The project is led by the MESP, Spatial Planning, Construction and Housing Directorate.



# Project Management and Information



The project means to provide operational support for the eSpatial Projects and inform and educate all participants of the eSpatial Project as well as the general public. In the scope of this project the project office has been established that provides organizational and technical support for the management and implementation of all eSpatial Projects. This project will be running until the year 2021.

Project goals:

- support for project management of the entire eSpatial Program,
- informing and educating participants and stakeholders of the project as well as the general public.

In 2018 activities regarding administrative coordination and expert support have continued. An in-depth financial report on the implementation plan of the Operational plan was prepared. Additionally, IT transition for the ISARR2 system into the eMA system was performed on August 2018. New payment requests have







hence been processed only through the eMA system.

During this report's time period promotional activities were carried out, including communication activities using the project's web page, printed materials, promotional material and so on. The action plan for communication was prepared in 2018, public speaking training has been carried out, three issues of the eNovice brochure were prepared (No. 1 Jun 2018, No. 2 September 2018, No. 3 November 2018) that were sent to municipal organizations, professional organizations, state authorities, administrative units and others. Videos were also prepared for the project's content.

At the end of 2018, two conferences of The Programme of the projects 'eProstor' were organized. The first one was meant for the internal public (SMA, MESP) and was carried out on November 27<sup>th</sup>, while the other was carried out on December 6<sup>th</sup> and was meant for the expert public (Ministries, administrative units, municipalities and others).









## Activities Report 2018

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