

An aerial photograph of a city, likely in North Macedonia, showing a river flowing through the center. The city is densely packed with buildings of various sizes and colors, including red-tiled roofs. A large, modern building with a circular roof is visible in the lower left. The text "Delivering large-scale spatial, real estate and street data projects" is overlaid in white on a semi-transparent dark green background.

Delivering large-scale spatial, real estate and street data projects

EuroGeographics webinar
23 April 2020



AGENCY FOR REAL ESTATE CADASTRE
Republic of North Macedonia

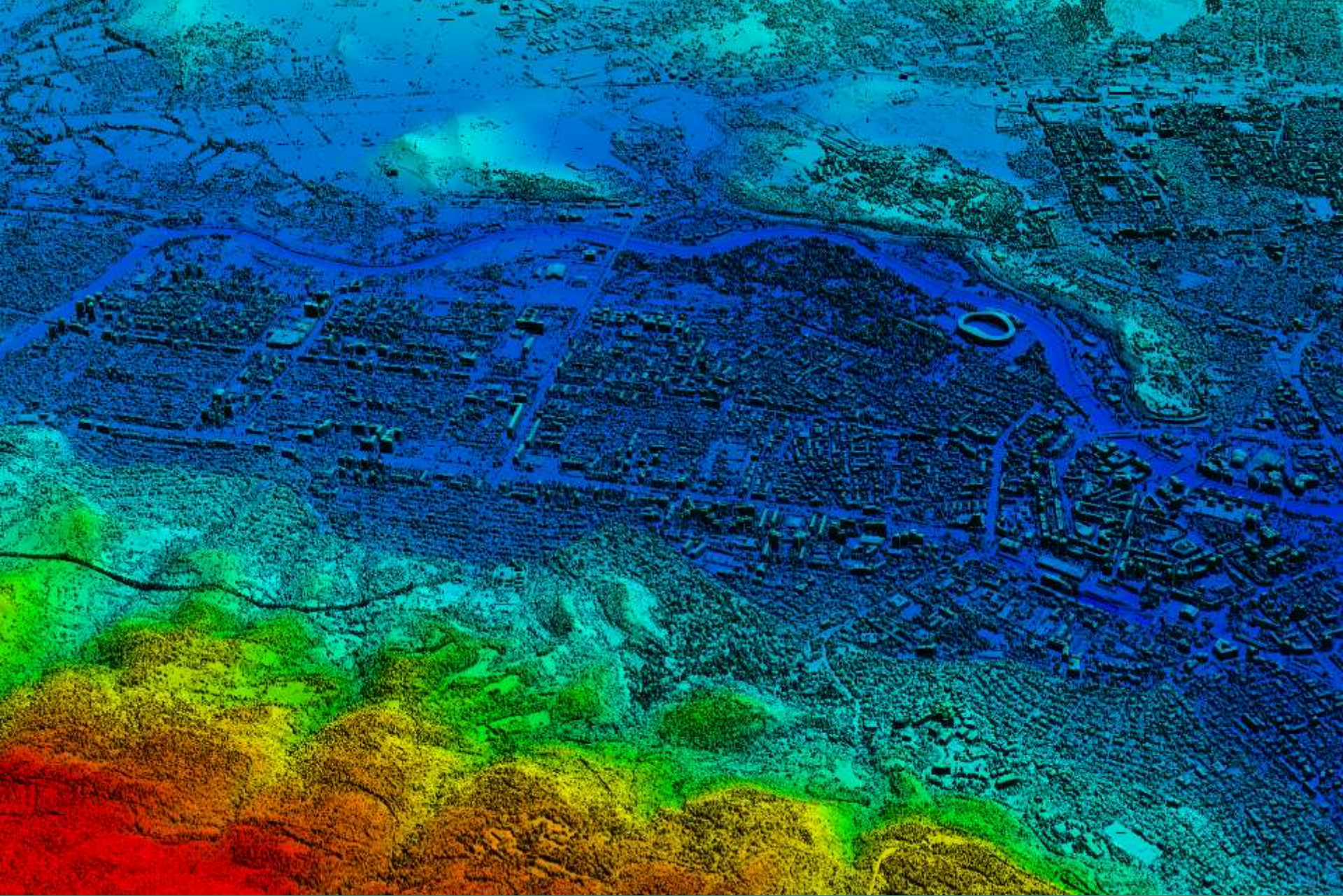
Presenter: Lidija Krstevska

Strategic work plan of the Agency for real estate cadastre for the period 2020-2022

- AREC is focused on ensuring bigger availability as well as improving the quality of geospatial information, their harmonization and horizontal networking with the institutions
- Focus is put on the users, creating an efficient, reliable and secure electronic geo-cadastral information system
- Following the adoption of the respective legal framework, AREC will establish new registers that would use data from the real estate cadastre database combined with other data sets

Ongoing projects

- LiDAR Project - 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, financed by the Norwegian ministry of foreign affairs
- Development and maintenance of the Registry of repossessed properties intended for sale, financed by AREC
- Address Registry project, financed by AREC, EU and Swedish International Development Cooperation Agency



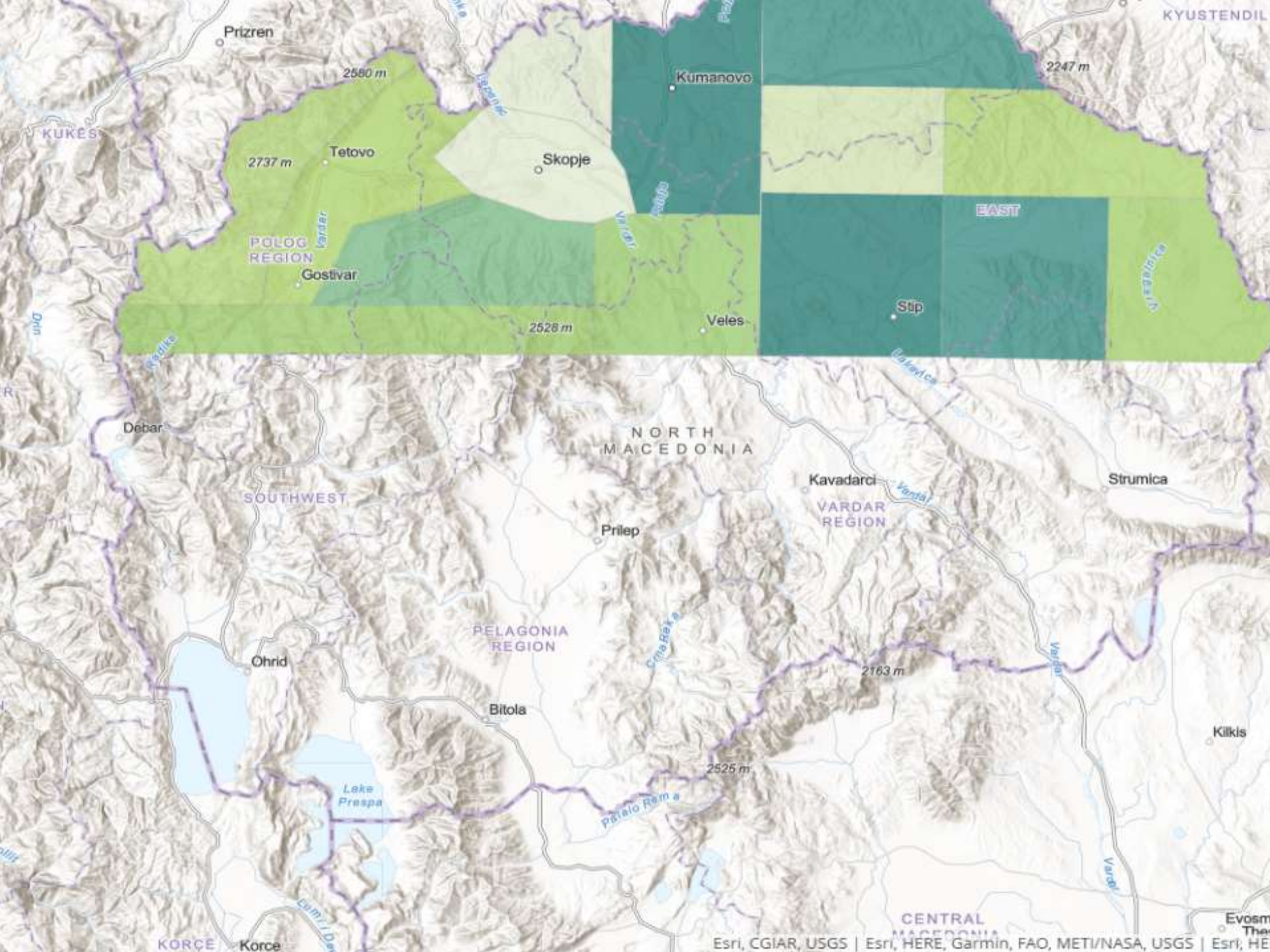
LiDAR survey of the entire territory of Republic of North Macedonia

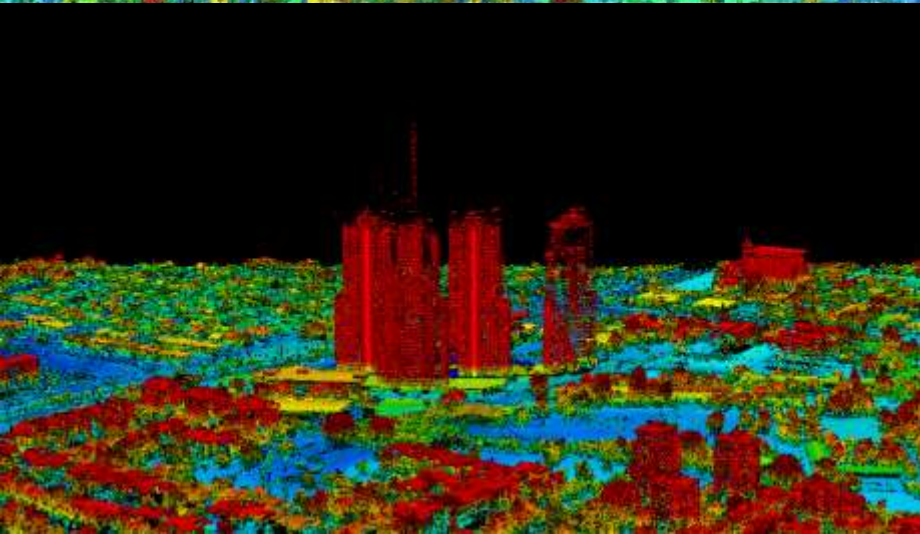
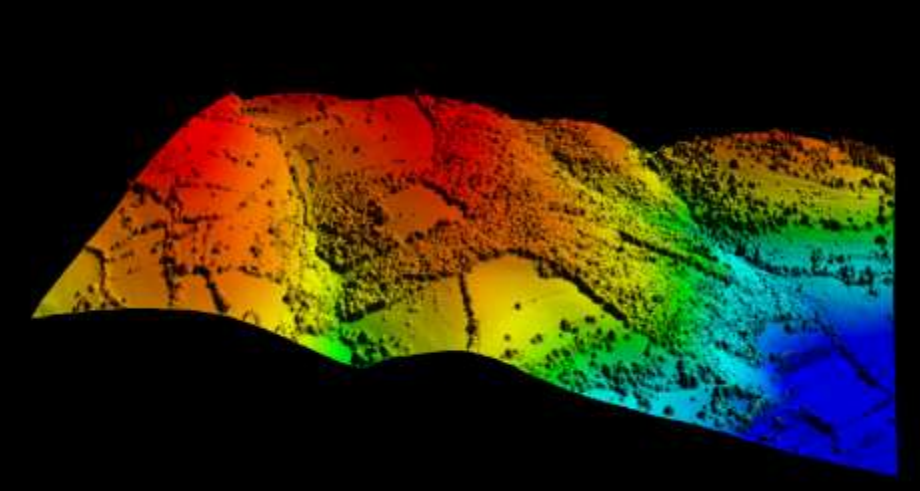
LiDAR project

- AREC provides geospatial information services to the governmental institution, public agencies, private sector and the general public
- According to the NSDI Law AREC is responsible for establishment, maintainance and providing public access to the national NSDI Geo-portal
- One of the themes of the spatial data sets identified in the NSDI Law is Elevation/Height Terrain Model
- Project is supported by the Norwegian Ministry of foreign affairs, the Agency for Real Estate Cadaster and Norwegian Mapping Authority (Statenskartverk) are implementing parties

LiDAR project

- The objective of this activity is to produce new precise elevation models of the terrain that will find wide application in geodesy, the Cadastre, urban planning, agriculture, environmental protection, crisis management, defence and other areas where geospatial data are used
- Laser scanning of an area of 10.072km² divided in 14 blocks (out of 25.436km²)
- Resolution of Lidar scanning: some blocks 5pnt/m², some 2pnt/m²
- Data processing, production of the Lidar products (DTM, DSM and points clouds) and control of product quality are ongoing
- Quality control is done by AREC experts, trained by Norwegian experts within LiDAR Project





Distribution

LiDAR portal developed for distribution and archiving of LiDAR data (DTM,DSM and points clouds) through which the users can:

View



Select



Download

Pricing model

- According to the REC Law, AREC charges fees for use and inspection of the GCIS data
- Only exception is when the data is issued for the needs of the ministries.
- If the ministries require the data for the use of third parties, they shall be charged
- Some examples have been investigated and shared (Norway, Sweden, ...)
- In the near future AREC should consider what model and approach to choose cost oriented or market oriented approach





Registry of repossessed properties intended for sale

Establishing Registry of repossessed properties intended for sale

- The Register of repossessed properties intended for sale is public register and it is part of the GCIS, administered by AREC
- The purpose of this register is to obtain information from one place on the repossessed properties intended for sale
- The Register contains spatial data and descriptive data from the REC database and data on the entity (banks, Public Revenue Office, etc.) that possess the property
- By the REC Law all entities are obliged to submit data on the repossessed properties intended for sale to AREC within 30 days from the takeover of the property



Signed Cooperation Agreements between AREC and KCA

Memorandum of Cooperation from the area of basic geodetic works, mapping, real estate cadastre, geoinformatics and spatial data infrastructure and Cooperation Agreements on data exchange from permanent GNSS (Global Navigation Satellite System) station networks were signed.

OUR SERVICES



Property List – Procedure for the submission of an application for a property list in paper form and method of provision of a property list in electronic form



Certificate of historic records of registrations made in the REC (History)



Cadastre map copy – Procedure for obtaining an Cadastre map copy for a personal property registered in the Real Estate Cadastre



DISTRIBUTION
GEOPORTAL



MACEDONIAN
POSITIONING SYSTEM



NSDI
GEOPORTAL



REGISTER OF FORECLOSED
PROPERTIES



REVIEW OF STATUS
OF SUBMITTED REQUEST



PROPERTY LIST
- SEARCH

NEWS



Established National Spatial Data Infrastructure (NSDI) Day in the Republic of North Macedonia

20 FEBRUARY, 2020



Signed Cooperation Agreements between the Agency for Real Estate Cadastre of Republic of North Macedonia and the Kosovo Cadastral Agency

17 FEBRUARY, 2020

ANNOUNCEMENTS



MAKPOS system upgraded for GALILEO functionalities

8 APRIL, 2020

 **koronavirus.gov.mk**

ALL INFORMATION FOR COVID-19 ON ONE PLACE

Дел на зграда

Пребарување по дел на зграда

Град	К.О.	Бр.И.Л.	Бр.Парцела
Зграда	Влез	Кат	Стан
Намена на дел на зграда	Површина	Исчисти	Пребарај

Р.Број	Град	К.О.	Бр.И.Л.	Бр.Парцела	Зграда	Влез	Кат	Стан	намена	Површина	Товар/Приб.	Сопственик	Графика
1	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95045	10062/2	1	2	ПР	1	лифт	4	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
2	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95045	10062/2	1	2	ПР	1	ходник со скали	58	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
3	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95045	10062/2	1	2	ПО	1	лифт	4	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
4	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95045	10062/2	1	2	ПО	1	ходник со скали	9	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
5	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95046	10062/2	1	1	К4	1	ходник со скали	4	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
6	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95046	10062/2	1	1	К1	1	лифт	4	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
7	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95046	10062/2	1	1	К1	1	ходник со скали	2	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
8	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95046	10062/2	1	1	К4	1	лифт	4	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
9	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95046	10062/2	1	1	К2	1	ходник со скали	3	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
10	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95046	10062/2	1	1	К5	1	лифт	4	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
11	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95046	10062/2	1	1	ПО	1	ходник со скали	39	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	
12	СКОПЈЕ	ГОРЧЕ ПЕТРОВ 3-ДЕКСИОН	95046	10062/2	1	1	ПР	1	ходник со скали	57	Т/П	КОМЕРЦИЈАЛНА БАНКА АД СКОПЈЕ	

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Погледа ?

- ☒ Парцела
 - ☒ Парцели
- ☒ Дел на зграда
 - ☒ Згради
- ☐ Инфраструктура
- ☒ ОССП
 - ☒ Ортофото
 - ☐ Катастарски одделенија
 - ☐ Катастарски соопшени
 - ☐ Граница на РСМ
 - ☒ ОССП Парцели
 - ☒ ОССП Објекти

Избран слој

- ☒ Парцели (Парцели)
- ☒ Згради (Дел на зграда)
- ☒ ОССП Објекти (ОССП)
- ☒ ОССП Парцели (ОССП)
- ☒ Ортофото (ОССП)

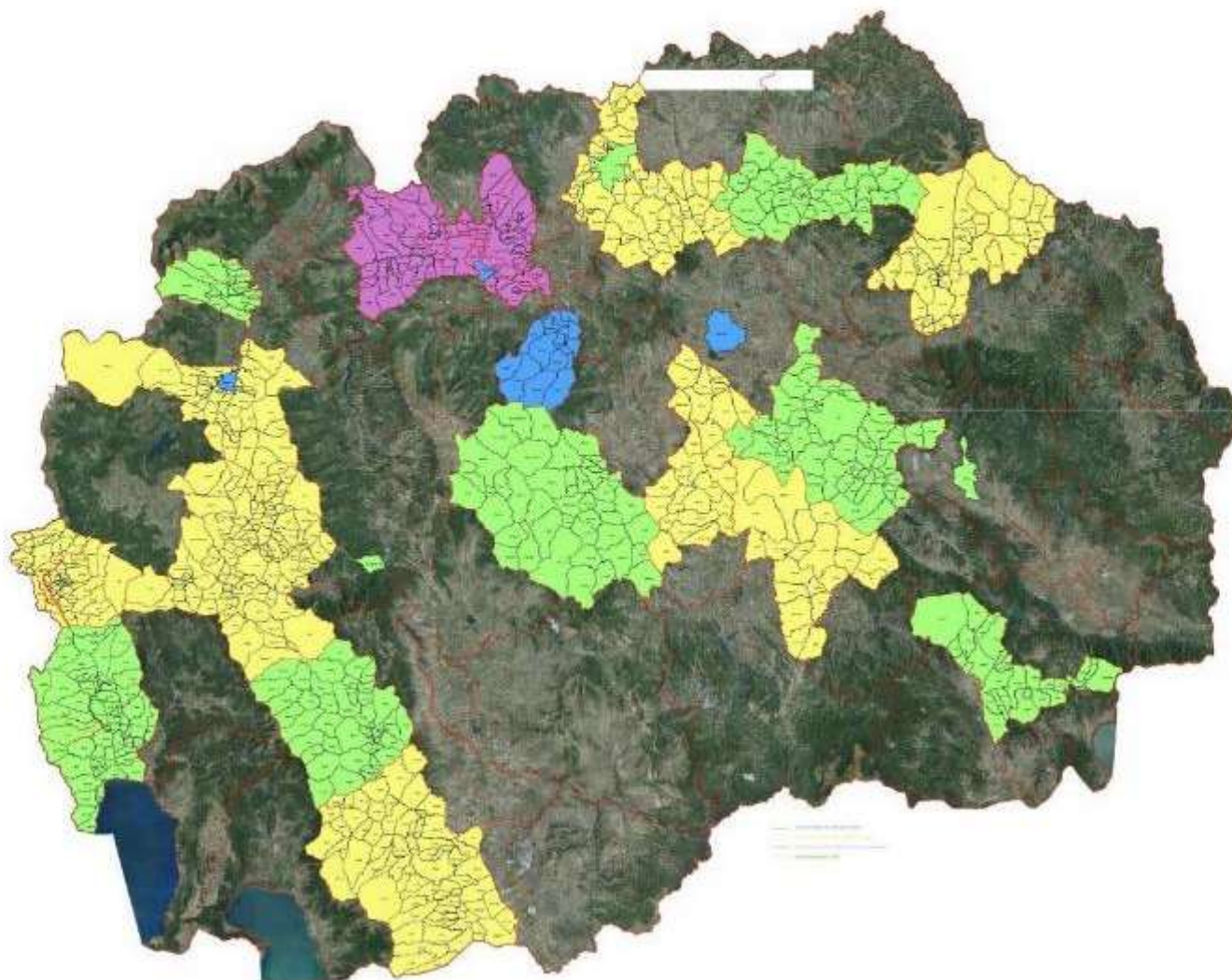




Graphical Register for streets and house numbers

Graphical Register for streets and house numbers as a part of the Address Register

- Process of collecting descriptive and geospatial data on streets and house numbers to the Graphical Register for streets and house numbers as a part of the Address Register, supported by project “Cooperation for digital democracy” financed by Sida, Lantmäteriet and AREC are implementing parties
- Field work completed for 10 municipalities for the territory of city of Skopje
- Field work for 10 municipalities ongoing
- In plan field work for additional 10 municipalities, interrupted by the crises caused by COVID 19
- Web mobile/tablet application developed by AREC & used by contracted surveying companies for collection of data
- Confirmation, delivery and acceptance of data is automatized





Graphical Register for streets and house numbers as a part of the Address Register

- Strengthening of institutional cooperation and capacity building - MOU with the municipalities
- AREC will assist the municipalities in the process of validation of data, by providing training for verification of the collected data
- After the completion of the process of control, correction and validation of the field collected data a Graphical register of streets and house numbers, by settlements will be establish
- Draft version of the Law on Address Register - The provisions have been harmonized with the specification of address data and technical instructions INSPIRE data specification on addresses-D2.8.I.5

An aerial photograph of a city street, showing buildings, roads, and greenery. A semi-transparent green rectangular box is overlaid on the upper portion of the image, containing white text. The text is organized into a title and a bulleted list. The background image shows a wide street with multiple lanes, crosswalks, and various buildings of different heights and colors. There are trees and some parked cars visible. The overall scene is a typical urban environment.

Results to be achieved

- Address data collected and verified by the municipalities for the entire territory
- Capacity on the central level (AREC, ministries) and local (municipalities) will increase.
- The Address registry database will be linked with other institutions databases (relevant ministries, State statistics office, municipalities etc.).
- AREC will have main role in the process of maintenance of the centralized data base for addresses.
- Services will be available for the public through Geoportal.