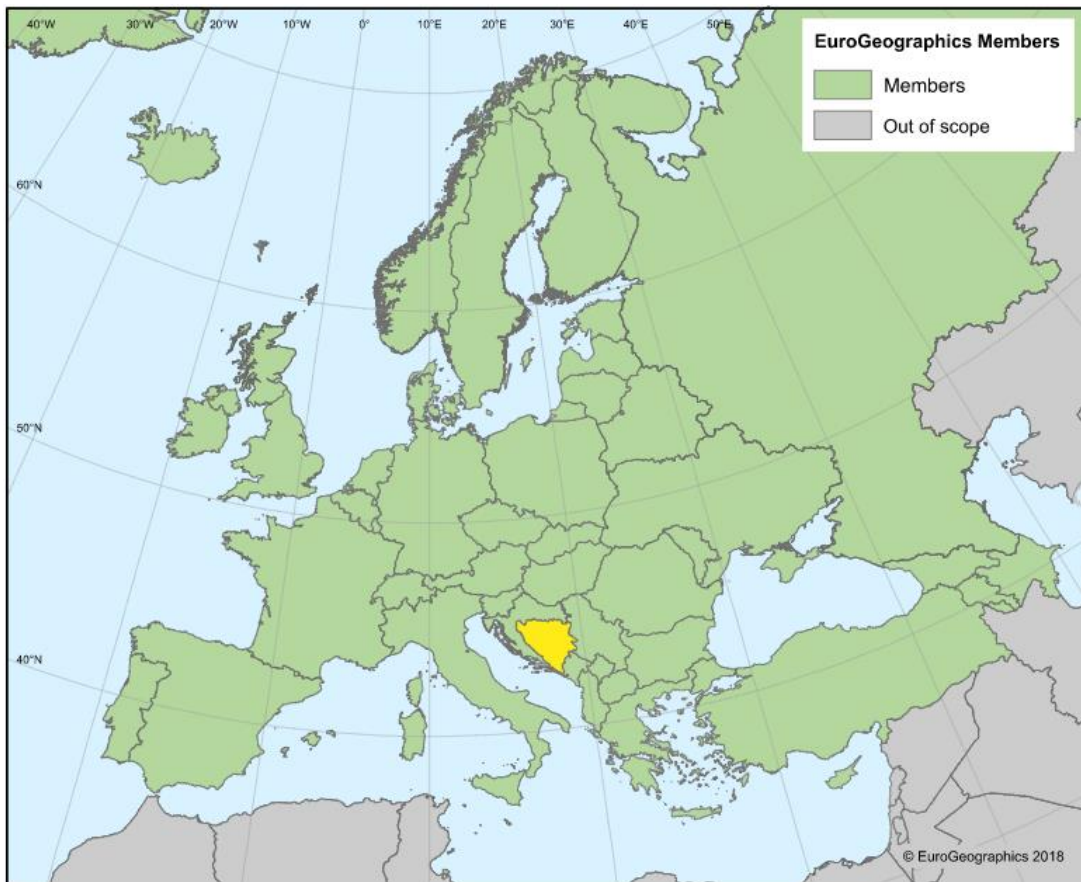




## **Federal Administration for Geodetic and Real Property Affairs**

Željko Obradović, director

# quick facts



**Location:** *Southeast Europe – Western Balkans*

**B&H Area:** *51,129 km<sup>2</sup>; FB&H Area: 26,105 km<sup>2</sup>*

**Population:** *3.8 million inhabitants (approx. 2.2 million in FB&H)*

**Capital:** *Sarajevo*

**Language:** *Three official*

**Currency:** *Convertible mark (BAM)*

**Administrative:** *Federation of Bosnia and Herzegovina, Republika Srpska and an independent district Brčko*

**Number of cities/municipalities (FB&H):** *79*

**Number of cadastral municipalities (FB&H):** *3465*

**Number of parcels (FB&H):** *4.7 million*

# a look back in history of LA



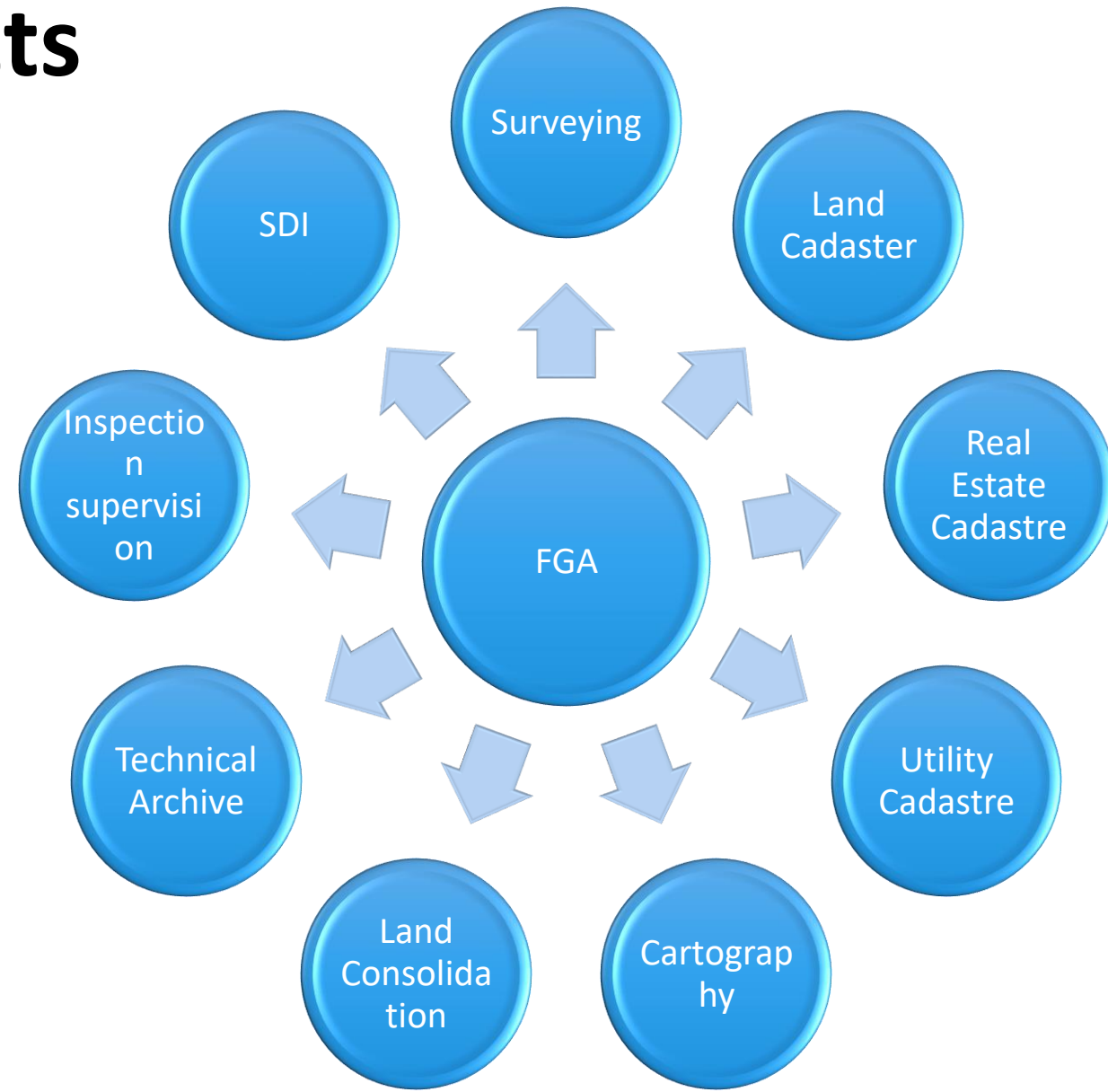
- 1880 - 1884 First Geodetic Survey (Old Survey)
- 1884 - Land cadastre established
- 1913 - Land register established
- 1953 - A new aerial photogrammetric survey is established
  - Land cadastre established (New survey)
  - Land Book (Old Survey)
- 1984 - Real Estate Cadastre u BiH
  - By 1992-92 % New survey established
  - 8% Real Estate Cadastre established
- 2004 - Return of dual system





# about the host – quick facts

- The organization of geodetic works in FBiH is decentralized
- High-level decision-making processes start at FGA, and are deployed throughout the Federation
- The FGU is under the authority of the FBiH Government
- Cantonal Geodetic Administration (KGU) and 79 cadastral offices within the competence of cantonal governments and local self-government units
- Dual land administration system for shared responsibilities
- FGA and LSGU – cadastre, FMOJ and LRO – land registry
- Total of 45 employees at the FGA HO; FB&H LA sector: 730



# mission and vision statements

## mission:

*FGA is the central place in the Federation of B&H for collecting, updating, controlling and distributing current spatial data. FGA manages and develops the real estate cadaster and official spatial basemaps by which it enables public bodies to manage space, events and processes in an advanced manner, and economic operators to have an accelerated development, and contributes to legal certainty of ownership to all entities with accurate and up-to-date data. FGA creates and implements the Spatial Data Infrastructure.*

## vision:

*Efficient, secure and sustainable real estate register system developed, while ensuring the accuracy and quality of spatial data, through continuous collection, maintenance and digital accessibility.*



# financing

- Financing activities from the budget of the FBiH Government
- Cofinancing of activities with other levels of Government
- Financing activities from credit funds (PIP)
  - IDA
  - IBRD
- Financing of activities from donor funds
  - EU (IPA and other sources):
  - Kingdom of Sweden
  - Kingdom of Norway
  - Kingdom of Netherlands



# ongoing key projects

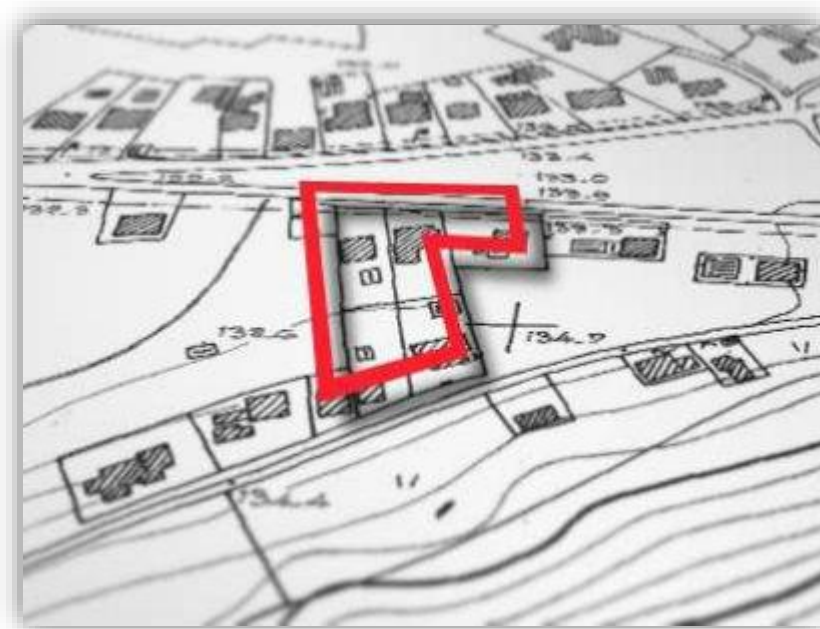
- Government of FB&H funded projects (RECDB establishment, DOP, CORS updates, SDI, Topography DB, etc...)
- RERP AF – AF for Real Estate Registration Project (WB)
- EU funded LiDAR survey project
- CILAP – Swedish donor project
- Norwegian donor project - phase II
- SPATIAL II – Netherlands donor regional project



Considerations and initial talks for additional cooperation projects are under way.

# areas of progress (1995 – 2022)

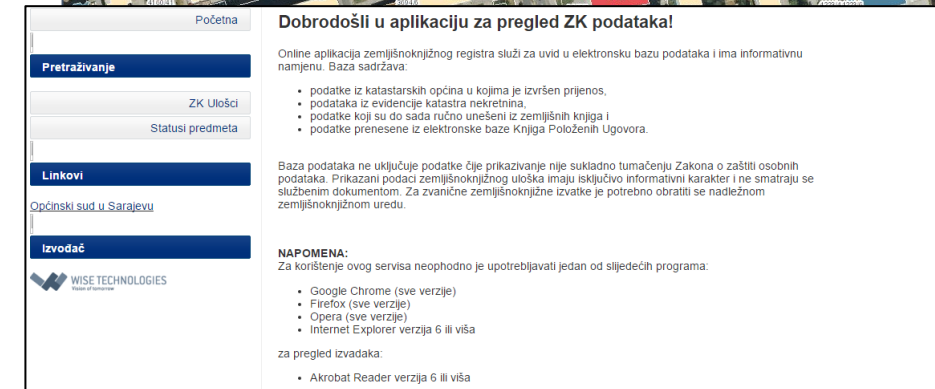
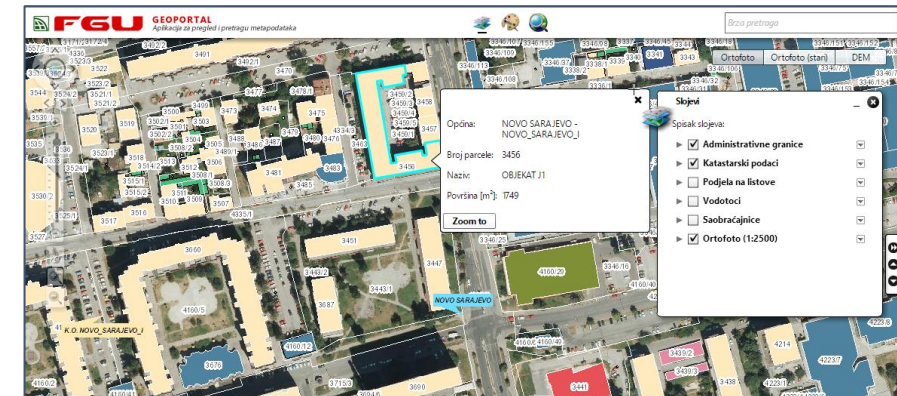
- Focus on strategic planning and institutional capacity building
- Introducing standards, models and rules into business
- Digitalisation and harmonization of cadastral and LR data
- Implementing interoperable LR and Cadastral IT systems
- Public display and services for cadastral and LR data
- Infrastructure for provisioning of e-services established
- Thematic IT systems and registers (AR, SPR, Topography, DA, Utility cadaster, Aerial imagery, Terrain models)
- Real estate market monitoring
- Improvements in geodetic infrastructure and CORS network
- Spatial data infrastructure (SDI)





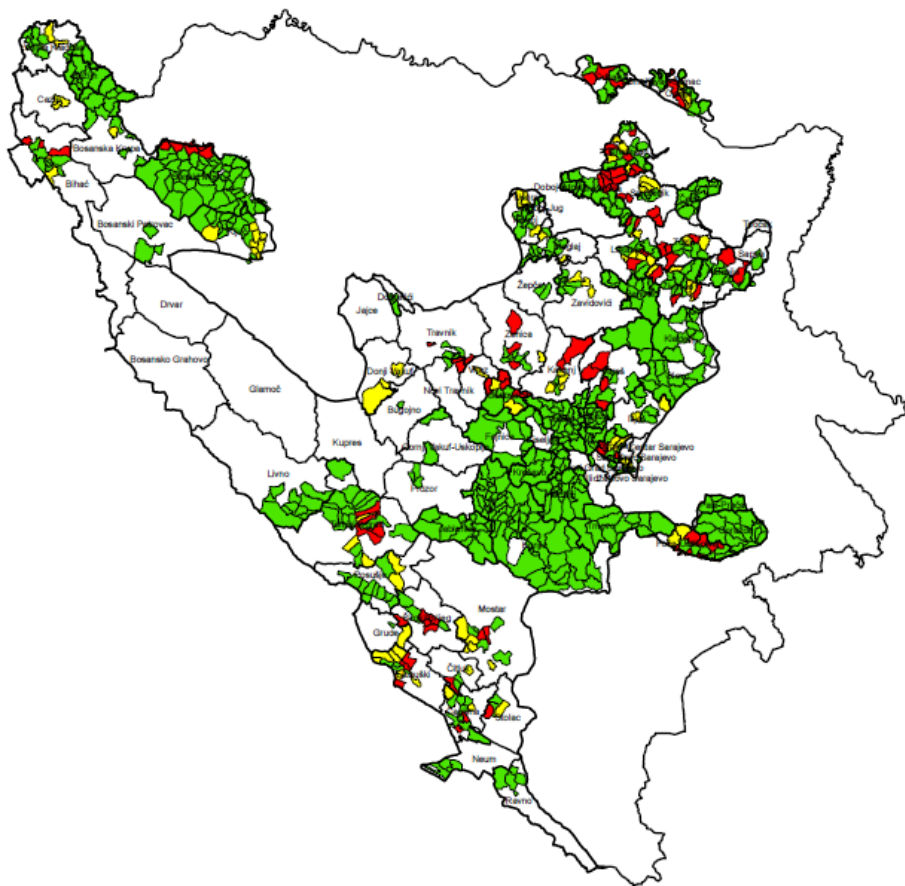
# key land reform results (1)

- Land registers for the entire FBH have been digitized - 1,030,000 land registry records at the end of 2011
- More than 1.2 million owners and co-owners have so far registered their real estate within the RERP project
- Online availability of cadastral data from the Cadastre Database is provided for all 79 municipalities and cities [www.katastar.ba](http://www.katastar.ba)
- Online availability of the land registry data of the Federation of BiH provided for all land registry offices [www.e-grunt.ba](http://www.e-grunt.ba)
- E-services provided annually record multi-million figures.

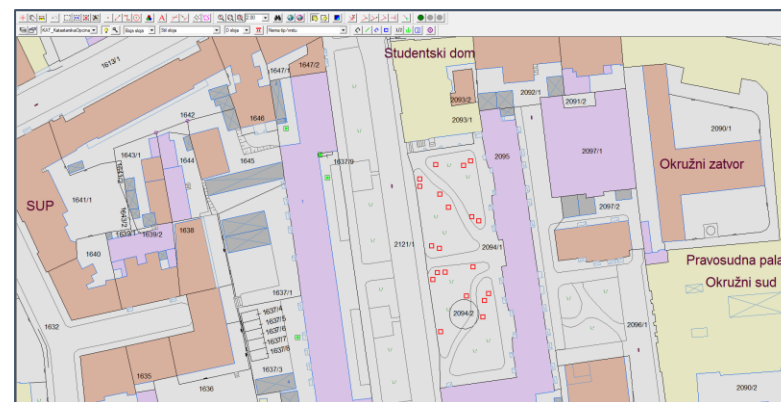


# key land reform results (2)

MAP OF HARMONIZATION DATA ON CADASTRE AND LAND BOOK



- More than 72% of the territory of FBiH is vectorised, total number of plots in the Federation of BiH in vector form is 4.2 million, which is more than 76% of the total number of plots in RECDB
- The data on real estate for the area of 305 urban cadastral municipalities with over 0.84 million parcels on which ownership was recorded as a result of project activities and for which records in both registers is harmonised since 2013
- Currently 57,8% of land registry entries are now based on the new cadastral survey and for 640 cadastral municipalities in total



# key land reform results (3)

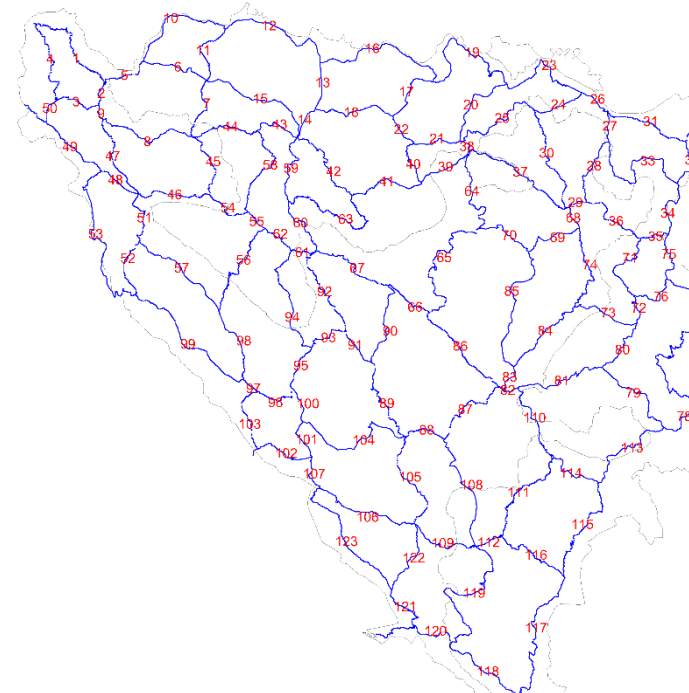
- 59 LR and cadastral offices are renovated and equipped with appropriate furniture in accordance with the highest standards
- In cooperation with and co-financed by municipalities and cities, 66 GNSS Rovers and 29 Total Stations were procured;
- More than 150 servers, 500 work units, 300 printers, 200 scanners, UPS devices, batteries for UPS devices, 130 backup devices and network equipment were purchased
- Improved working environment and work organization, greatly reduced the possibility of corruption and significantly improved citizens' perception and confidence in land registry and cadaster





# geodetic infrastructure improvements

- New reference systems introduced
- Stabilising the geodetic network of points
- GNSS measurements, ETRS transformation models
- Gravimetric survey
- High precision levelling measurements
- New standards introduced, rulebook on basic geodetic works
- Geoid calculations

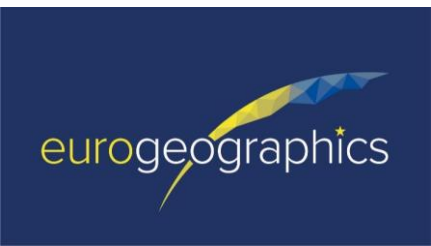
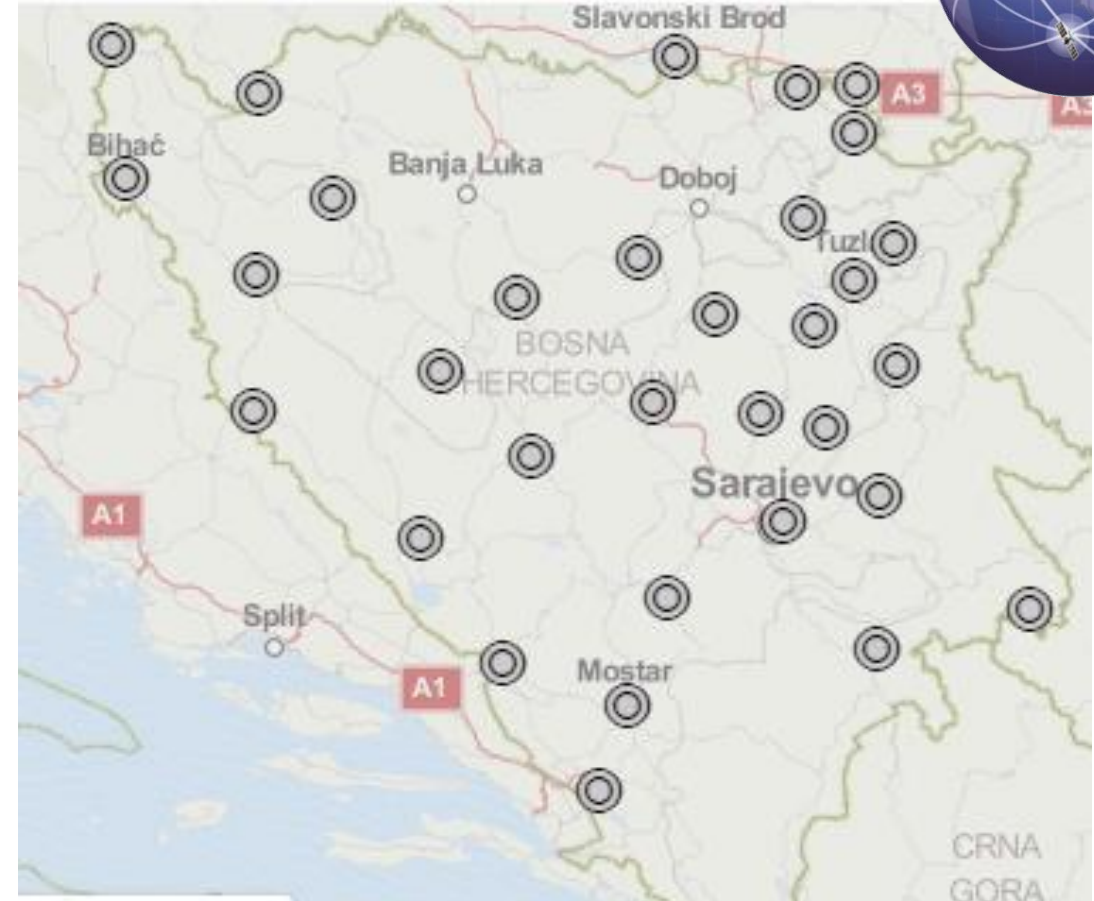


Bosna i Hercegovina Federacija BiH		Kanton Općina	Zemaljsko-čobanjski Tešanj	Mjesto Potočje	Šifra Šifra
<b>NVT III - POLOŽAJNI OPIS REPERA</b>			Broj repeta: <b>L64R005</b>		
Broj poligona		Broj vijaka		Objekat kojim je postavljen vijak i relacija vijaka	
Udaljenost od početka vijaka u km:		4,7		Doboj-Jug - Zavidovići	
Gaus - Krigerove koordinate		Visina repeta		Hovra (aov) = 156,98	
x = 4 946 998,26		y = 6 506 021,20		Hovra =	
ETRS 89 koordinate		X = 4 320 064,913		Y = 1 409 581,850	
q = 44° 39' 43,32858" N		λ = 18° 04' 15,02871" E		Z = 4 460 855,986	
Opis položaja repeta		Odanjuranje položaja repeta na objektu			
Reper se nalazi na O.Š. "Mustafa Bilić" u mjestu Šije, u blizini putnog pravca Doboj-Maglay.					
Opis pristupa repetu automobilom:		Tip repeta		0,30	
Pristup repetu automobilom je moguć:		5		0,30	
Detaljna skica položaja repeta		Lokacija repeta na karti R1:25000			
Fotografije izgleda i položaja repeta					
Institucija koja je postavila reper:		Geodet d.o.o. Sarajevo		Mjesto i datum:	
Položajni opis izradio:		E.Bajić, E.Hasanović		Šije, 05.10.2017.	



# CORS network, FBIHPOS

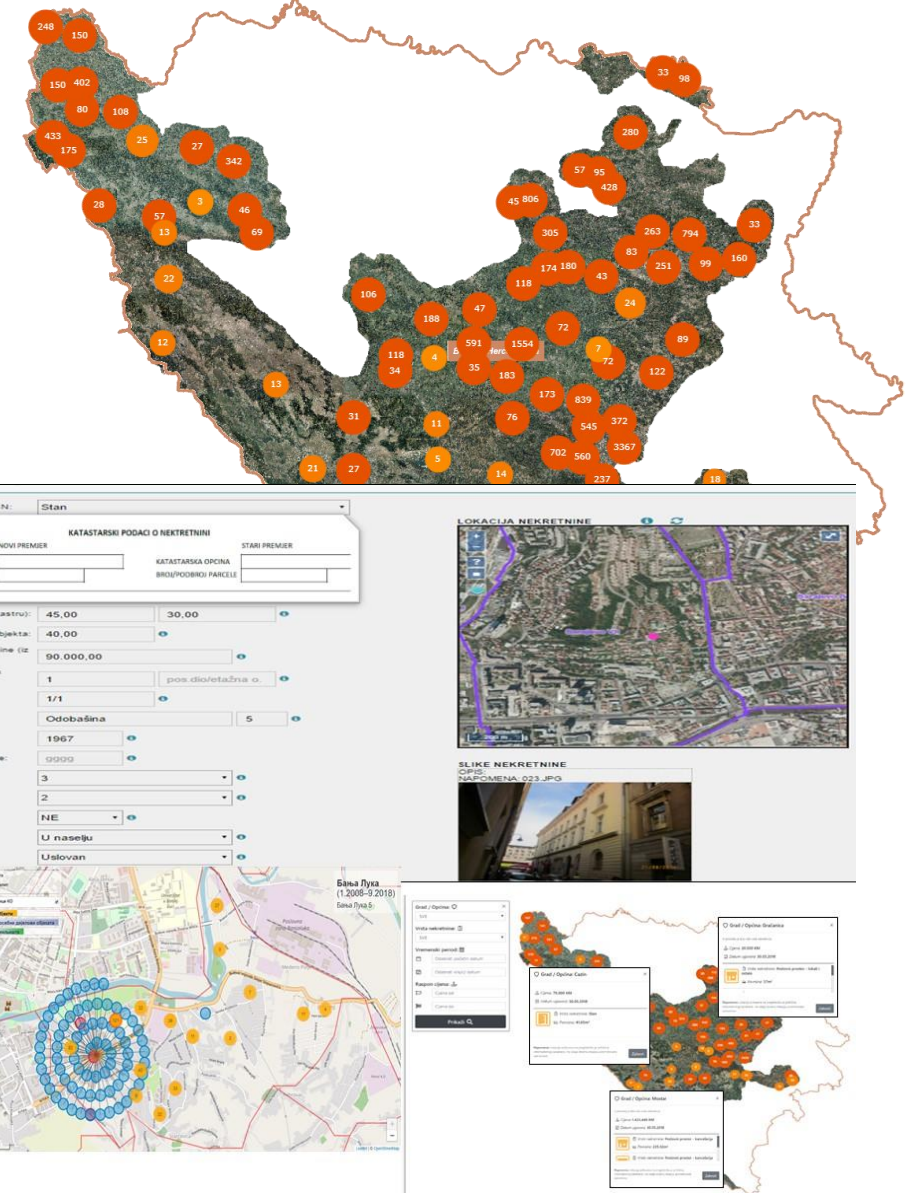
- Positioning system in operation since 2011;
- Continuous increase in station numbers
- New web services introduced
- GALILEO integration
- Transformation service
- Continued eq. replacement on sites and Data center
- User base constantly expanding
- EUREF inclusion (A class station in Sarajevo)



***EuroGeographics General Assembly  
Sarajevo May 15<sup>th</sup> to 17<sup>th</sup> 2022***

# sales price register

- IT system for data capture and maintenance
- Cooperation with Tax authority and LSGU [www.katastar.ba/rcn](http://www.katastar.ba/rcn)
- Capacity building in the institutions
- Equipment providing and system maintenance
- Public presentation of data
- Data analytics and reports
- Procedure and data transparency
- Basis for future projects



# address registry

- IT system for data capture and maintenance
- Cooperation with LSGU
- Capacity building in the institutions
- Public presentation of data on SDI portal
- 30 LSGU have completed all phases of establishing the AR
- System used by more than 45 LSGU
- Agreements for central data distribution

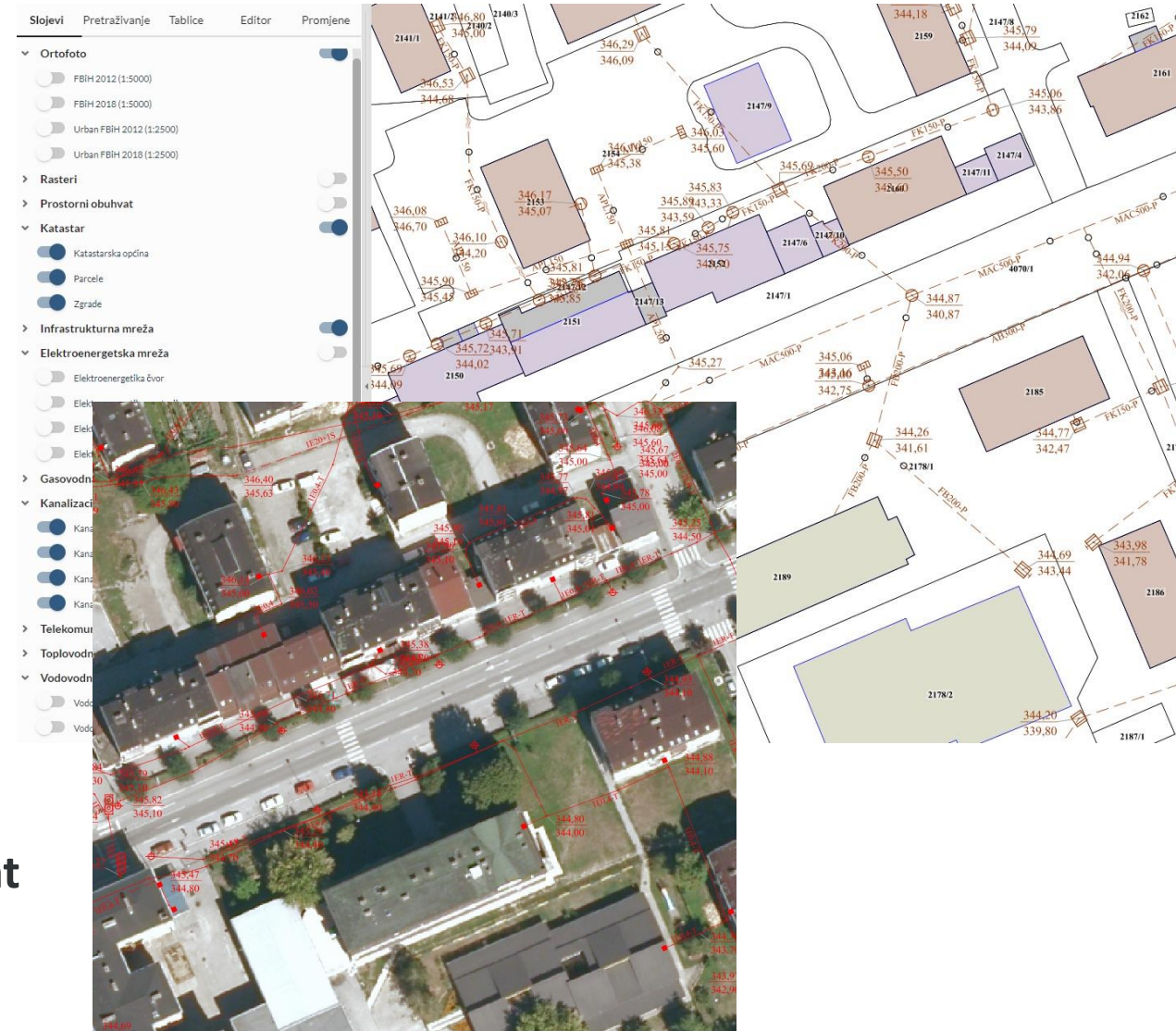
[www.ippfbih.gov.ba](http://www.ippfbih.gov.ba)





# utility cadastre

- Cooperation with LSGU
- Training and capacity building in the institutions
- Public presentation of data on SDI portal planned
- Pilot locations in development stage
- System used by 5 LSGU currently
- Database creation/migration ongoing
- Funding for roll out and maintenance – Government
- System interoperability



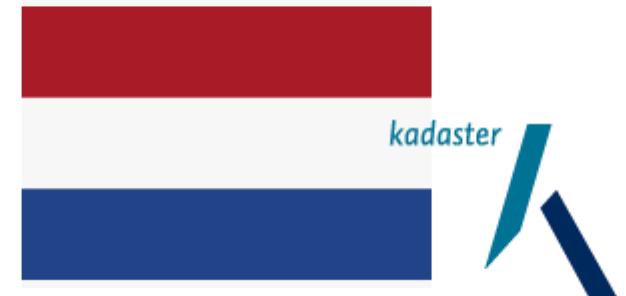


# spatial data infrastructure

- SDI law in place since 2021
- SDI Council activities
- WG activities
- Platform for metadata capture and browsing
- Register of SDI subjects and data sources
- Promotional activities
- Continued education of SDI stakeholders
- SDI geoportal and data harmonisation ([www.ippfbih.gov.ba](http://www.ippfbih.gov.ba))



# international cooperation



## FGA Strategic documents and Government policy guidance sets future objectives:

- Continuation of harmonization of cadastral and land registry data for urban areas
- Public display of cadastral data to complete coverage of area with new cadastral survey
- Full integration of land registry and cadastre information systems for user benefits
- Improvement of geodetic infrastructure – use of new reference systems
- Operationalization of Spatial Data Infrastructure
- Mass valuation of real estate
- Increasing the number of digital data services

*Complete digitalization of business processes and provision of e-services to citizens, private sector, government institutions and other parties.*

*(Standby due to lack of digital signature)*

# final thoughts

- FGA has a clear vision of its future activities in the field of land administration
- Uniform system of land administration
- It takes an active approach to all the "players" in the field of land administration and support to planned activities, all in the interest of our customers but also the entire economy
- Quality cooperation between the executive and the judiciary as well as the federal, cantonal and city / municipal levels of government is basis of progress
- Harmonization of legislation in the Land Administration is much needed
- Build active partnerships with others institutions and international organizations to succeed
- Donor support and the support of the WB are essential to the sector of land administration at the moment and in the future
- Building capacities to address so called „megatrends“ (urbanisation, climate change, technology advancements, cybersecurity, new eco systems and migrations)





# welcome to Sarajevo and B&H





# welcome to Sarajevo and B&H



WELCOME TO



*Sarajevo*

**Thank you for the attention!**



**FGU**

Federalna uprava za geodetske i imovinsko-pravne poslove

[fgu.com.ba](http://fgu.com.ba)