



Reflections on the implementation of the COVID-19 Recovery Action Plan

Republic Geodetic Authority

Centre of Geospatial Information Management

Центар за управљање геопросторним подацима
Center of Geospatial information management

www.geosrbija.rs

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Republic Geodetic Authority

By the official **Law on state survey and cadaster RGA** is national geospatial data provider **responsible** for:

- ✓ NSDI;
- ✓ Geodetic Reference Systems;
- ✓ State Survey;
- ✓ Real-estate cadastre;
- ✓ Utility cadastre;
- ✓ Registry of administrative Units;
- ✓ Addresses Registry;
- ✓ Topography and Cartography;
- ✓ Real-estate Mass Valuation;
- ✓ Registry of Geographic Names;
- ✓ Professional supervision and licensing of geodetic organizations;
- ✓ Geomagnetism and aeronomy;
- ✓

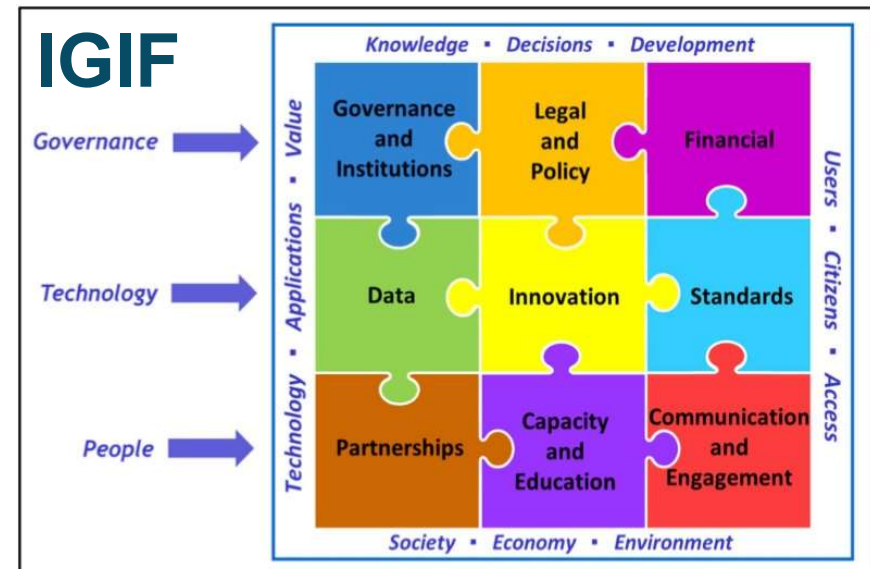


Land Administration

„Land administration is described as the process of determining, recording, disseminating, and updating information about the relationship between people and land“



SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD



THE KEY ISSUES with informal settlements

Corruption

Evictions with no compensation

No security

Don't pay taxes

Lower property value

Invasions

Poor access to roads

Pollution

No credit

Lack of access to utilities

Refugees

Can't access social services, schools or health services.

VG Part 3: LEGAL RECOGNITION AND ALLOCATION OF TENURE RIGHTS AND DUTIES. **INFORMAL TENURE**

- ▶ **10.1** Where informal tenure to land, fisheries and forests exists, **States should acknowledge it** in a manner that **respects existing formal rights** under national law and in ways that recognize the reality of the situation and **promote social, economic and environmental well-being**.
- ▶ **States should promote policies and laws to provide recognition to such informal tenure.** The process of establishing these policies and laws should be **participatory, gender sensitive and strive to make provision for technical and legal support to affected communities and individuals.**
- ▶ **10.3** Whenever States provide legal recognition to informal tenure, this should be done through **participatory, gender-sensitive processes, having particular regard to tenants.** In doing so, States should pay special attention to farmers and small-scale food producers. **These processes should facilitate access to legalization services and minimize costs.** State should strive to provide technical and legal support to communities and participants.
- ▶ **10.4** States should take all appropriate measures to **limit the informal tenure** that results from overly complex legal and administrative requirements for land use change and development on land. **Development requirements and processes should be clear, simple and affordable** to reduce the burden of compliance
- ▶ **10.5** States should endeavour to **prevent corruption**, particularly **through increasing transparency, holding decision-makers accountable, and ensuring that impartial decisions are delivered promptly.**
- ▶ **10.6** Where it is not possible to provide legal recognition to informal tenure, States should **prevent forced evictions** that violate existing obligations under national and international law, and consistent with relevant provisions under **Section 16. Expropriation and compensation**

VG Part 7: PROMOTION, IMPLEMENTATION, MONITORING AND EVALUATION: **THE ROLE OF THE STATES**

- ▶ **26.1** In accordance with the voluntary nature of these Guidelines, **States have the responsibility for their implementation, monitoring and evaluation.**
- ▶ **26.2** States are encouraged to set up multi-stakeholder platforms and frameworks at local, national and regional levels or use such existing platforms and frameworks to collaborate on the implementation of these Guidelines; to monitor and evaluate the implementation in their jurisdictions; and to evaluate the impact on improved governance of tenure of land, fisheries and forests, and on improving food security
- ▶ **26.3** Development partners, specialized agencies of the United Nations, and regional organizations are encouraged to support voluntary efforts by States to implement these Guidelines, including through South-South cooperation.
- ▶ Such support could include:
 - ✓ technical cooperation
 - ✓ financial assistance
 - ✓ institutional capacity development
 - ✓ knowledge sharing and exchange of experiences
 - ✓ assistance in developing national tenure policies and
 - ✓ transfer of technology

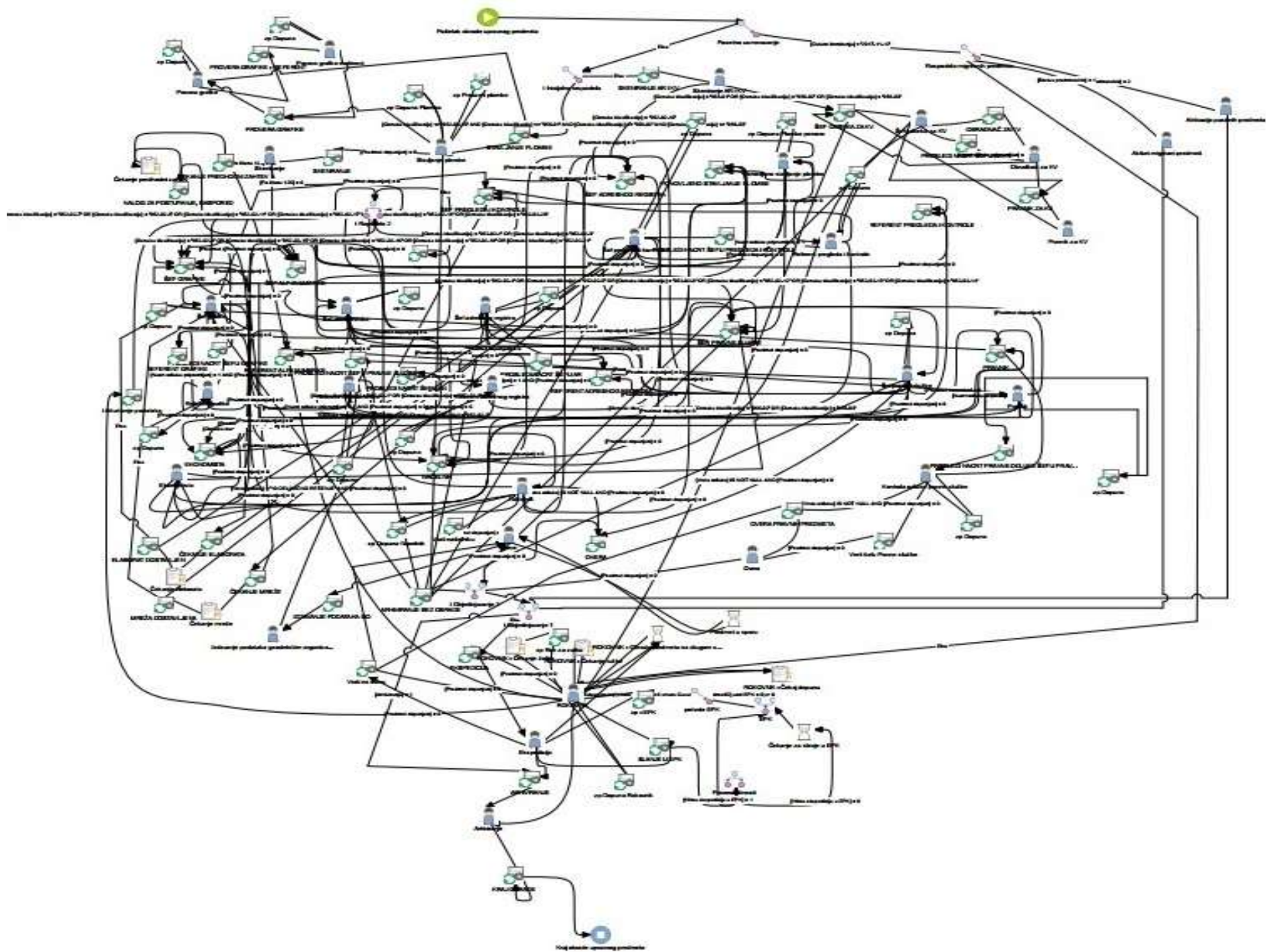
Informal properties in Serbia

- ▶ Serbia has been trying to solve the issue of illegal properties for more then 25 years!
- ▶ Law on legalisations in Serbia:
 - ▶ First Law on legalisation 1997
 - ▶ Law on spatial planing and constraction 2003
 - ▶ Secund Law on legalisation 2006
 - ▶ Third Law on legalisation 2009 and 2010
 - ▶ Fourth Law on legalisation 2013
 - ▶ Fifth Law on legalisation 2015 (satellite images)!

Real Estate Cadastre in Serbia (2016)

- Over 4,5 millions buildings are not registered - INFORMAL !!!





Informal properties in Serbia

- ▶ Socio-economic study for geospatial data and information done in 2020:

Potential market value of informal properties in Serbia:

circa 28 billion EUR

Loss from unpaid taxes

circa 127 million EUR per year

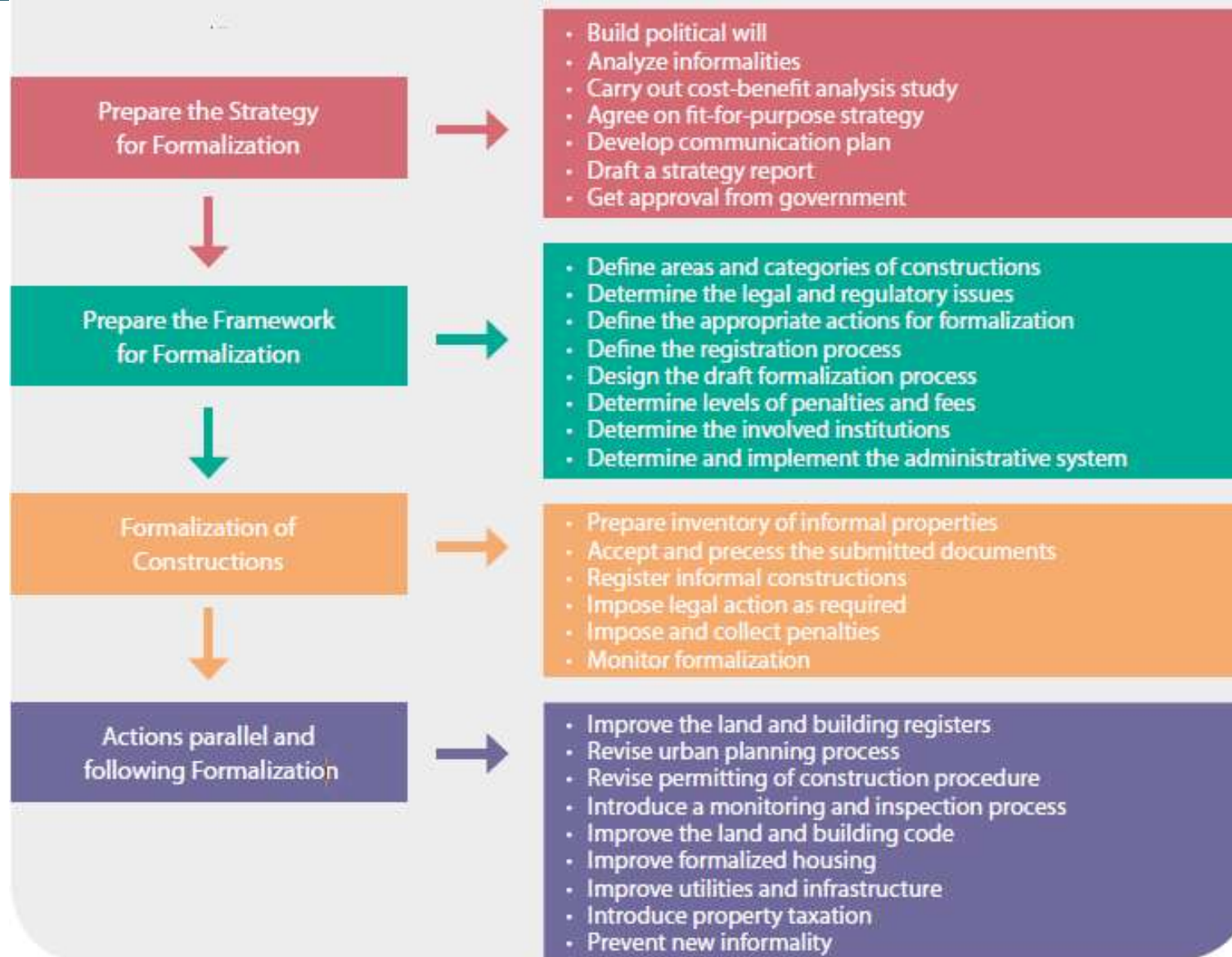
It is not possible to sell or buy informal properties= "DEAD CAPITAL"

It is not possible to get access to utilities and infrastructure

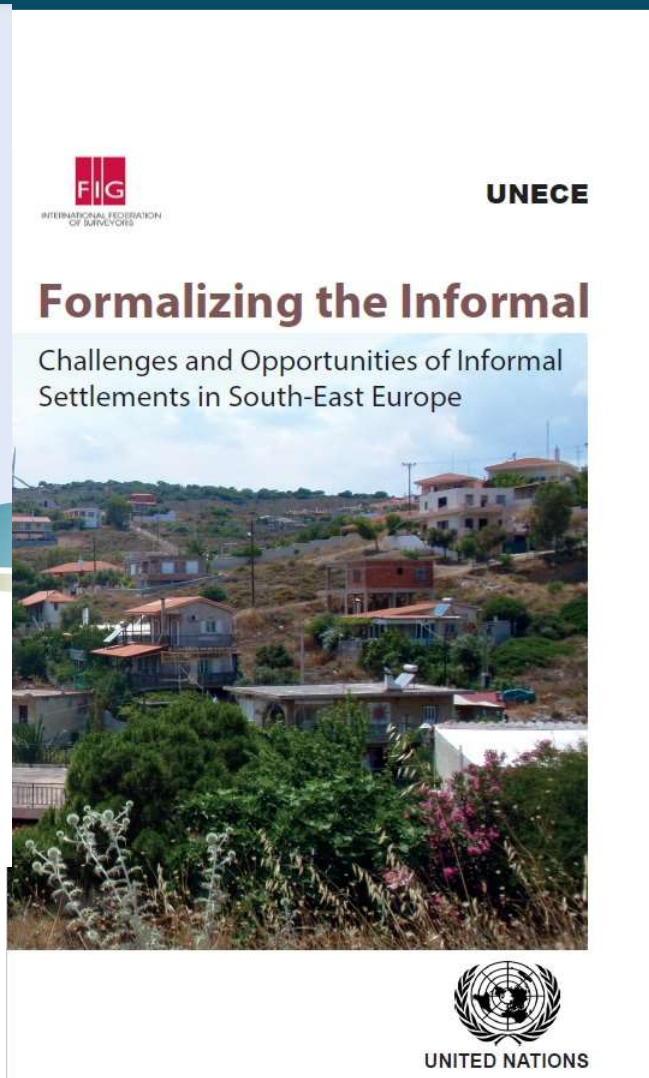
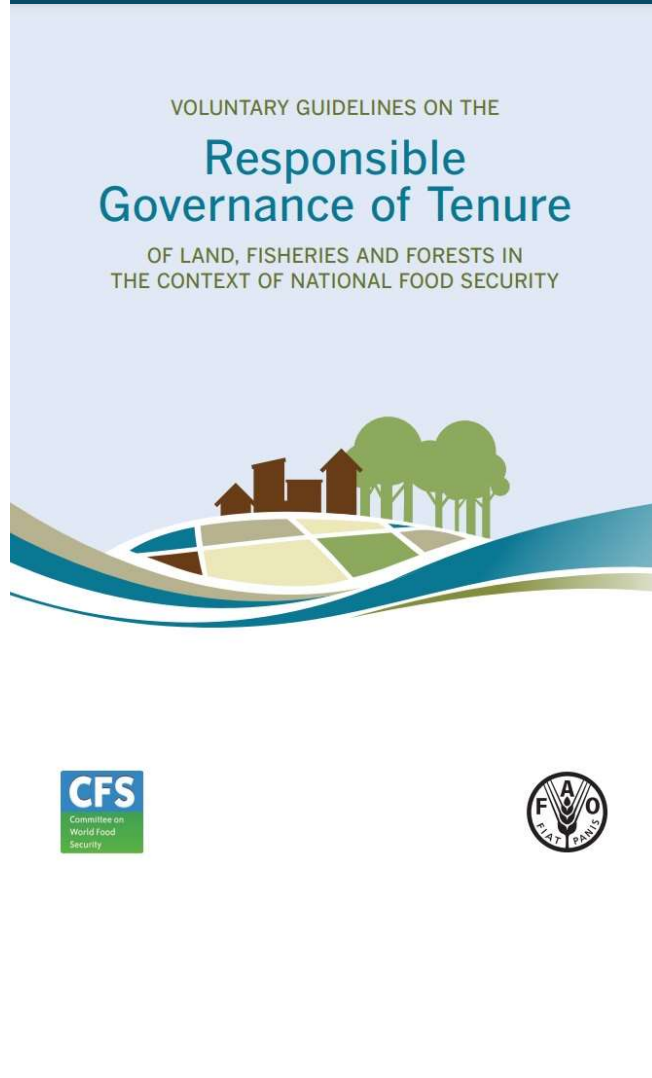
Results?

- ▶ Untill 2016 only 771.000 requests of legalization
- ▶ From 2015 until now around 240.000 properties are legalized
- ▶ Many issues has been identified:
 - ▶ Law capacities at local level (6% of local capacity engaged in the process)
 - ▶ Slow and complicated process (average 24 properties per month = process will take several decades!)
 - ▶ unresolved property-legal relations
 - ▶ lack of interest of the owner
 - ▶ high costs of the procedure
 - ▶ too much paperwork and complicated regulations
 - ▶ Lack of technical infrastructure
 - ▶ The number of new illegal properties increase rapidly (satellite images as a tool)

NEW SOLUTION AND NEW CONCEPT IS NEEDED!!!!!!



NEW GUIDELINES FOR REFORM OF THE PROCESS OF FORMALISATION



Post COVID-19 Recovery Action Plan for Informal Settlements in the ECE Region

► Policy Area 1 - Geospatial, land rights, tenure, resource allocation and justice

- Goal 1 *Informal settlements are formalized and brought into the formal markets in a just, efficient, and sustainable manner, allowing for broader socio-economic progress, justice, and the empowerment of the people.*

► Policy Area 2 - Involvement of Local Communities and Local Action

- Goal 2 *Local community-based organizations, coordinated with a city-level team, respond to the pandemic in coordination with government ministries, medical, professional, and aid organizations of all kinds.*

► Policy Area 3 - Basic Data Needs, Telecommunications, and Information Technology

- Goal 3 *The people are empowered to cope with a pandemic by leveraging and making easily available the relevant information technologies*

► Policy Area 4 - Physical Infrastructure, Water and Energy Services

- Goal 4 *The public physical infrastructure, water and sanitation network, and energy grids adequately, sustainably, and equitably support the informal communities.*

► Policy Area 5 - Services

- Goal 5 *Essential services are supplied to residents safely and adequately, overcoming the challenges of the pandemic threat.*

► Policy Area 6 - Stay at Home Recommendations, Culture, and Vulnerable Groups

- Goal 6 *To balance stay at home recommendations with the social and economic realities facing the local culture, diverse populations, and vulnerable groups.*

► Policy Area 7 - Food, Basic Consumption and Distribution

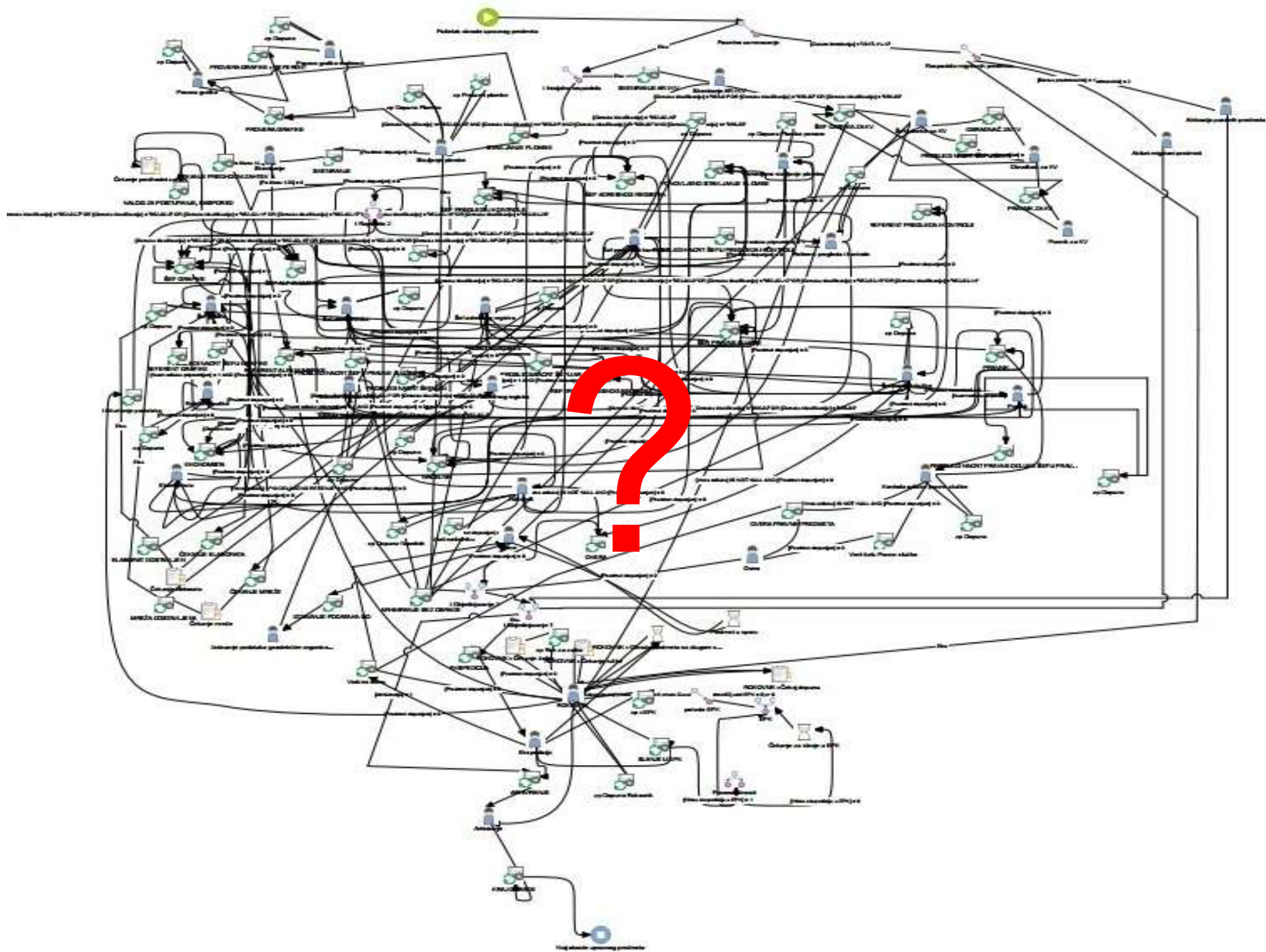
- Goal 7 *To ensure the adequate and safe manufacture, and distribution of food, basic consumption goods, and medical supplies.*

► Policy Area 8 - Environmental Concerns, Green Spaces, Recreation and Social Events

- Goal 8 *Provide for safer enjoyment of the environment, green spaces, recreational and social activities.*

► Policy Area 9 - Buildings, Construction and Land Planning

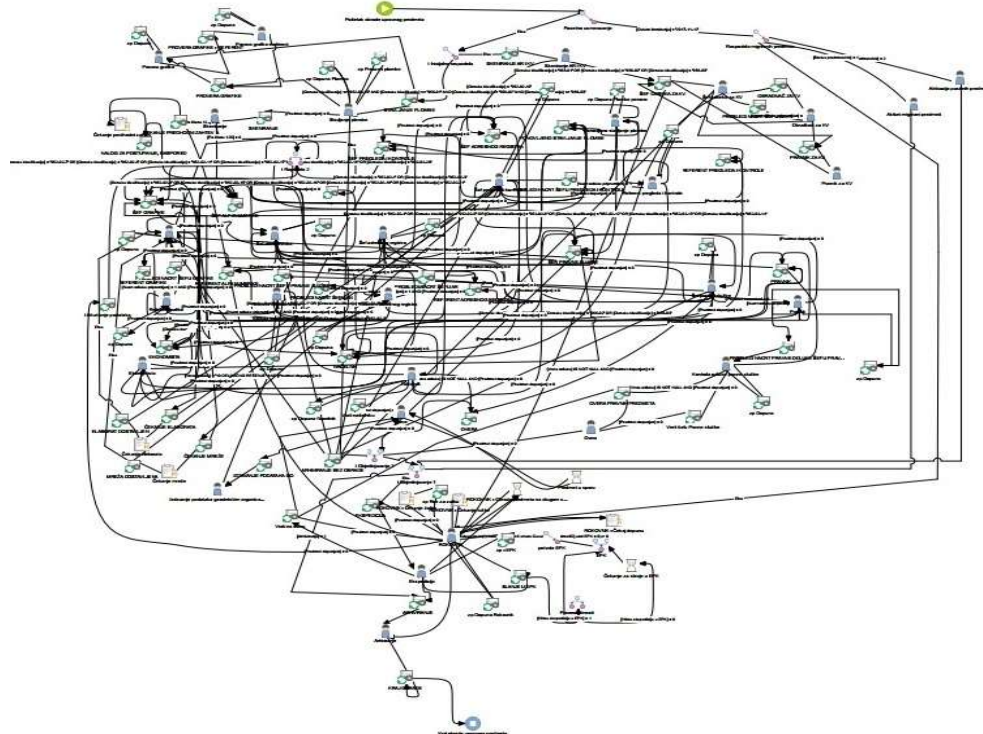
- Goal 9. *Risks posed by commercial, public buildings, educational facilities, informal homes, and other constructions are controlled.*



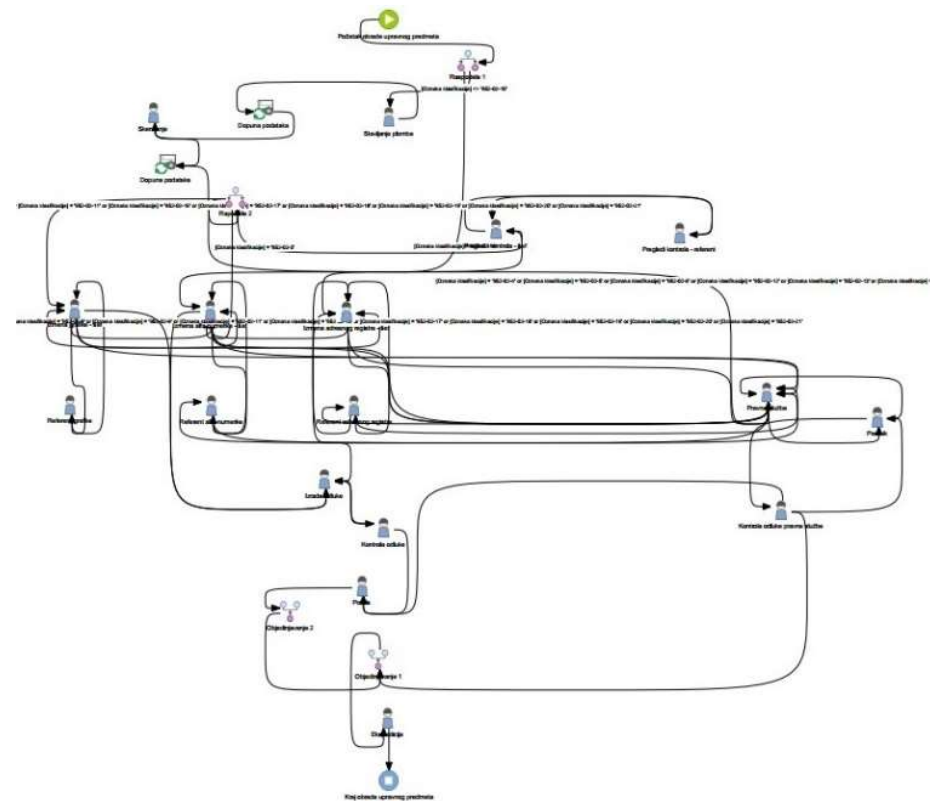
SIMPLIFIED BUSINESS PROCESSES

Changed policy, laws, procedures and technologies
 Since July 2018 all services are available end-to-end digital

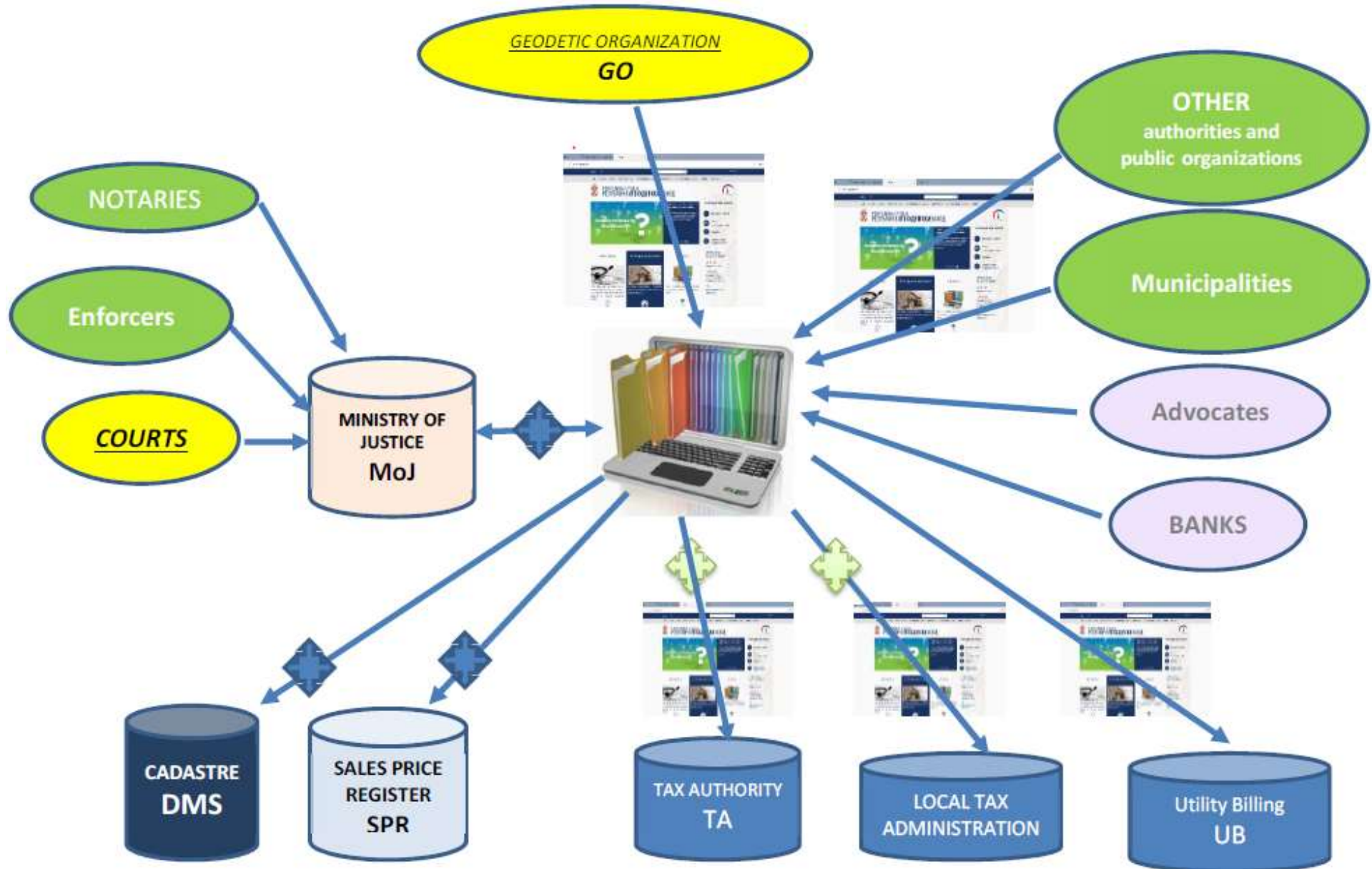
2016



2019



eFrontDesk and eServices



New geospatial platform Geosrbija launched - **December 2017**

over **330 data sets**

Last month: over **500.000** unique users

and over **15M** requests/month

More than 200 institutions!!!



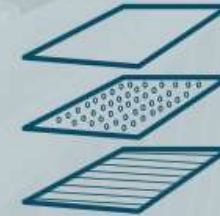
Metadata catalog

The national application which enables searching, creating, maintaining and sharing metadata for spatial datasets, data series, and services.



Collaborative platform

App for the collaboration between relevant national and regional communities, web place for support, training, informing, ideas and opportunities.



Digital platform

National web GIS application which provides the display, search, analysis, transformation, creation, sharing and maintenance of geospatial data of Serbia.

REAL ESTATE REGISTER

Search for map data

Layer Manager Pro

- ▲ Cadaster
 - Buildings
 - Parcels
 - Map of Requests
 - Cadastral municipality surveying met
 - Land consolidation
- Utility Cadaster
- Geographical Names Register
- Register of decision on demolition
 - New Building
 - Modified or removed object DG
- ▲ Building register
 - New Building
 - Modified or removed object DG
- Condominium register
- Price Register
- Ortophoto
- Agricultural

CADASTER

BASEMAPS

FIELD WORK, CONTROL AND INFORMATION FOR CITIZENS

The screenshot displays a web browser window with the URL <https://a3.geosrbija.rs>. The main interface shows a satellite map overlaid with a cadastral map. The parcels are color-coded: red for 'Rešenja o rušenju' (destruction decisions) and blue for 'Katastarska parcela' (cadastral parcel). A legend on the right side of the screen provides details for these classes. A search bar at the top left allows for finding content or adding a theme. The bottom of the screen shows a Windows taskbar with various application icons and system information.

Легенда

- Објект
- class
- Катаstarska парцела
- class
- Rešenja o rušenju
- Rešenja o rušenju

Катаstarska општина Књажевац

Општина Књажевац

Број парцеле 07002

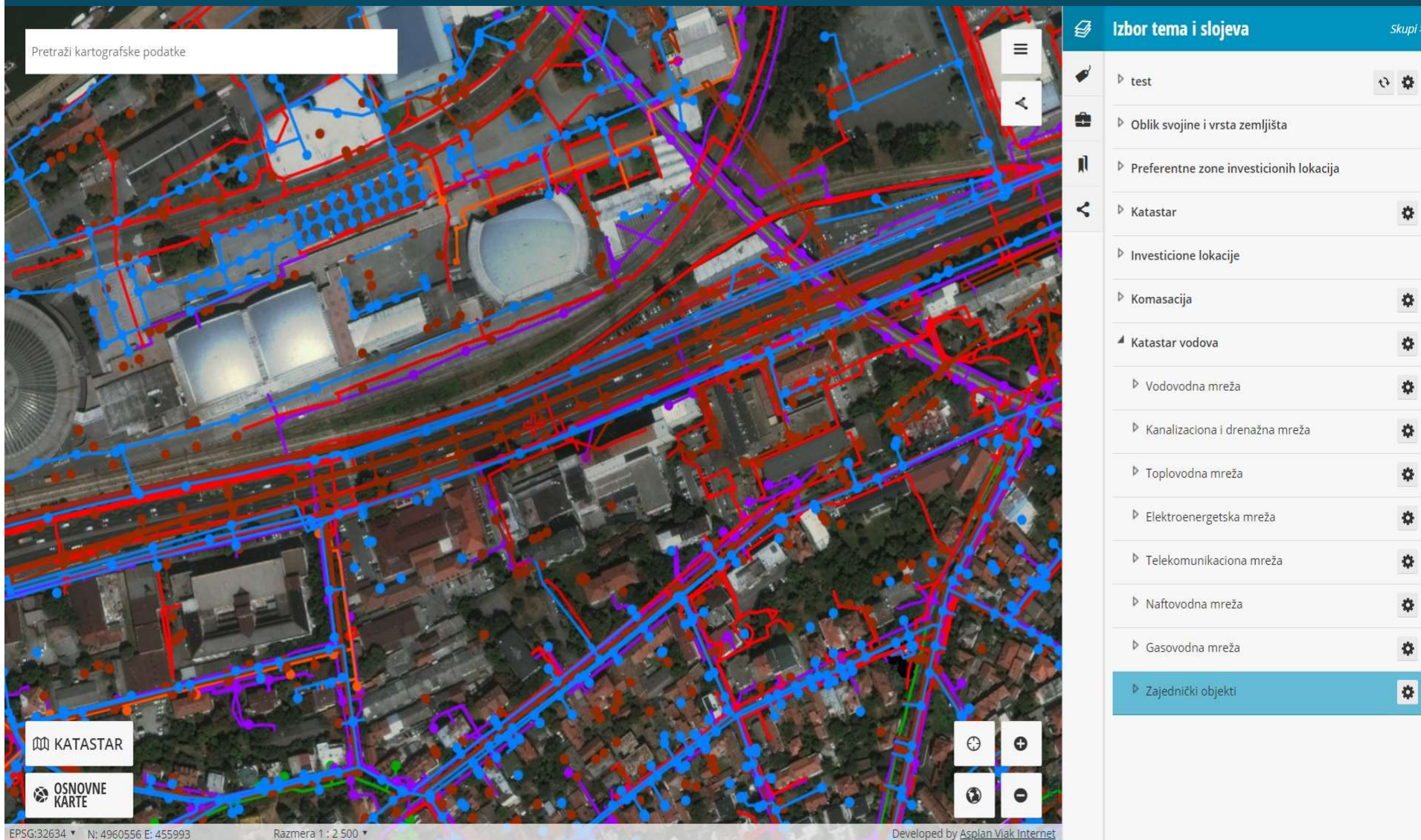
Обавештење
У поступку озакоњења на парцели је идентификован објект за рушење.

Идентификатор документа 71832707002000

Преузми PDF Прикажи

UNDERGROUND ASSETS REGISTER

Pretraži kartografske podatke



Izbor tema i slojeva Skupi >

- test
- Oblik svojine i vrsta zemljišta
- Preferentne zone investicionih lokacija
- Katastar
- Investicione lokacije
- Komasacija
- Katastar vodova**
 - Vodovodna mreža
 - Kanalizaciona i drenažna mreža
 - Toplovodna mreža
 - Elektroenergetska mreža
 - Telekomunikaciona mreža
 - Naftovodna mreža
 - Gasovodna mreža
 - Zajednički objekti**

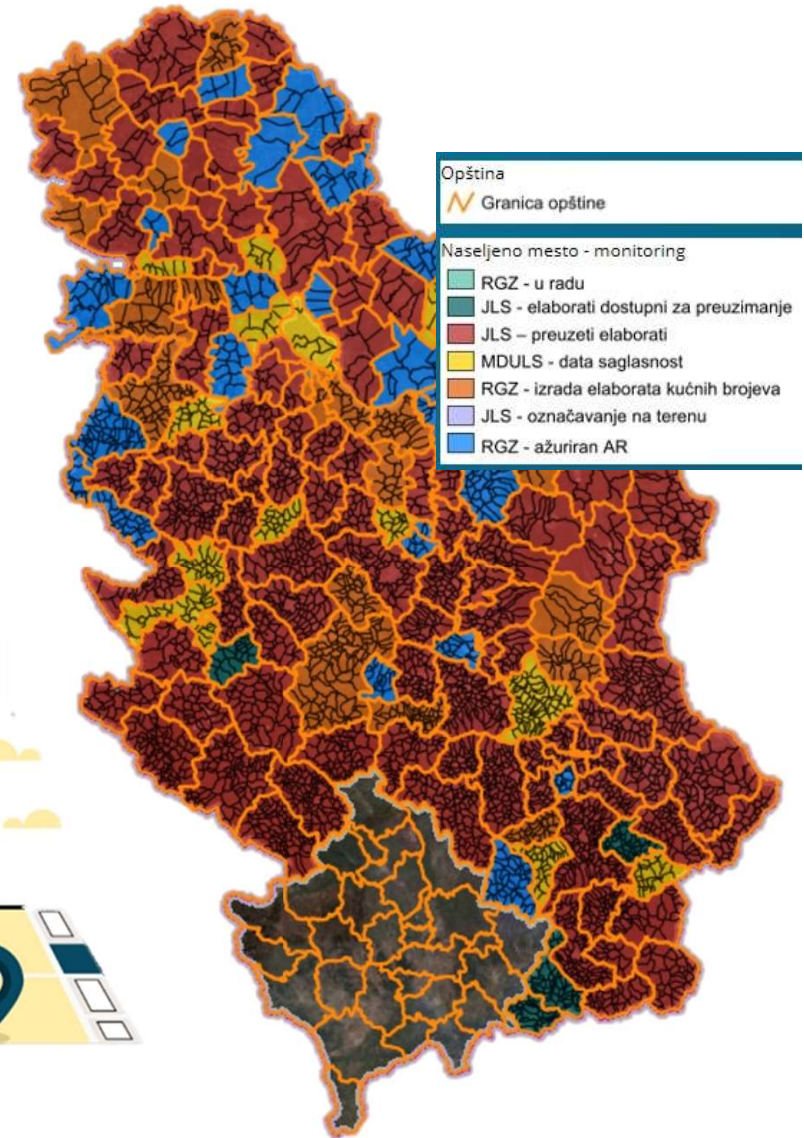
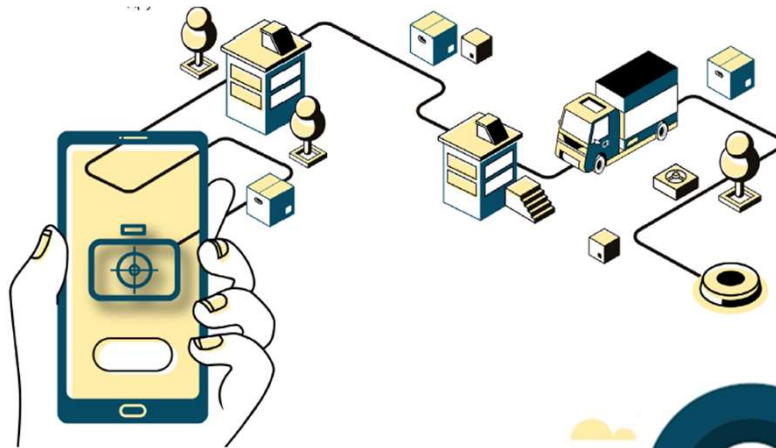
KATASTAR
OSNOVNE KARTE

EPSG:32634 N: 4960556 E: 455993 Razmera 1 : 2 500 Developed by [Asplan Viak Internet](#)

Address Register

Geosrbija for street system
crowdSDI for demarcation of house numbers

1,5 YEAR = UPDATED ADDRESS REGISTER!!



RESPONSE TO COVID 19

HEALTH AND SOCIAL ECONOMIC RECOVERY

Critical datasets

1. Address
2. Building register
3. Cadastre parcels
4. Satellite imagery
5. Statistics
6. Utilities
7. Schools, nursing homes, social welfare
8. Covid ambulances, medical institutions and infrastructure

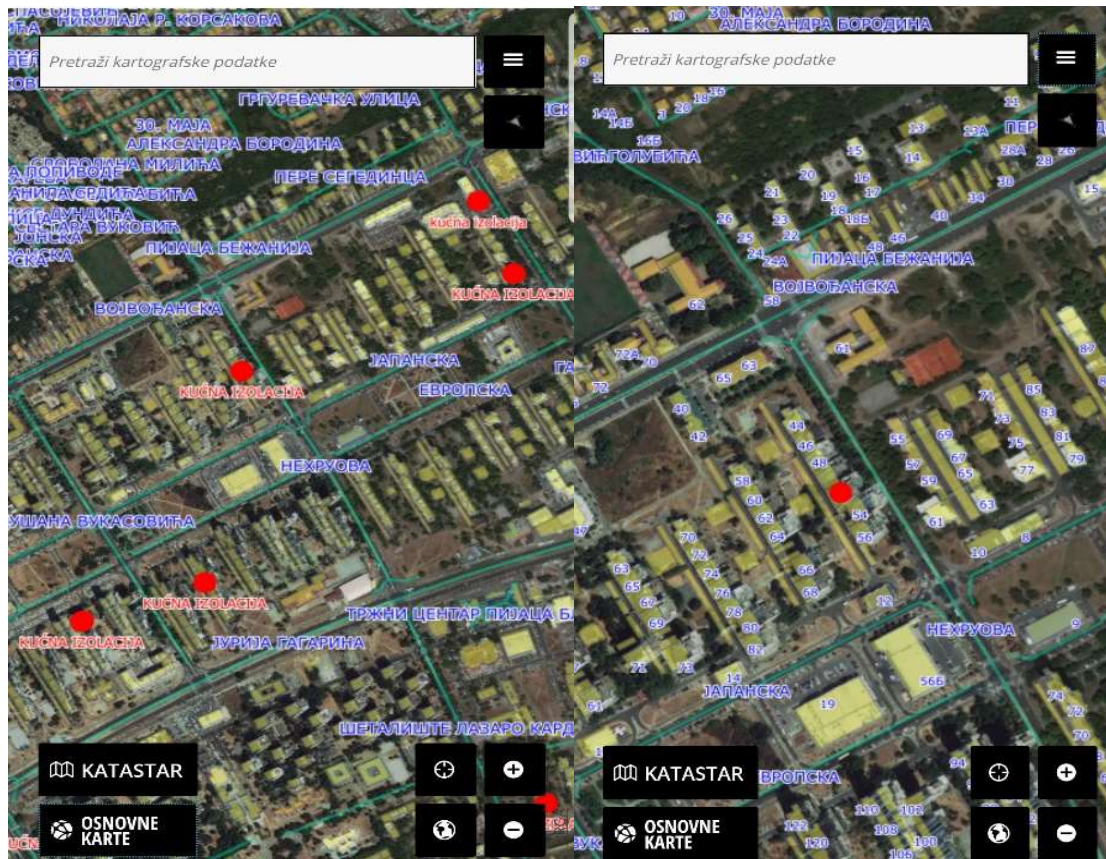
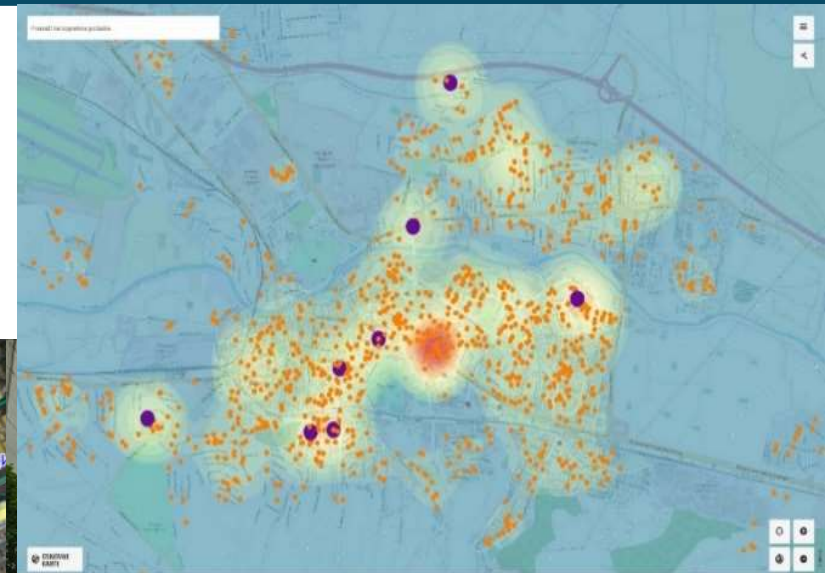
Critical systems

1. Geosrbija
2. Crowdsourcing
3. Mobile apps
4. Cadaster and property registration system
5. Sales Price Register



COVID 19 NEW SERVICES

- Guiding Lock-down
- Definition of high risk zones
- Providing data to agriculture
- Vulnerable group protection
- Efficient economic decision

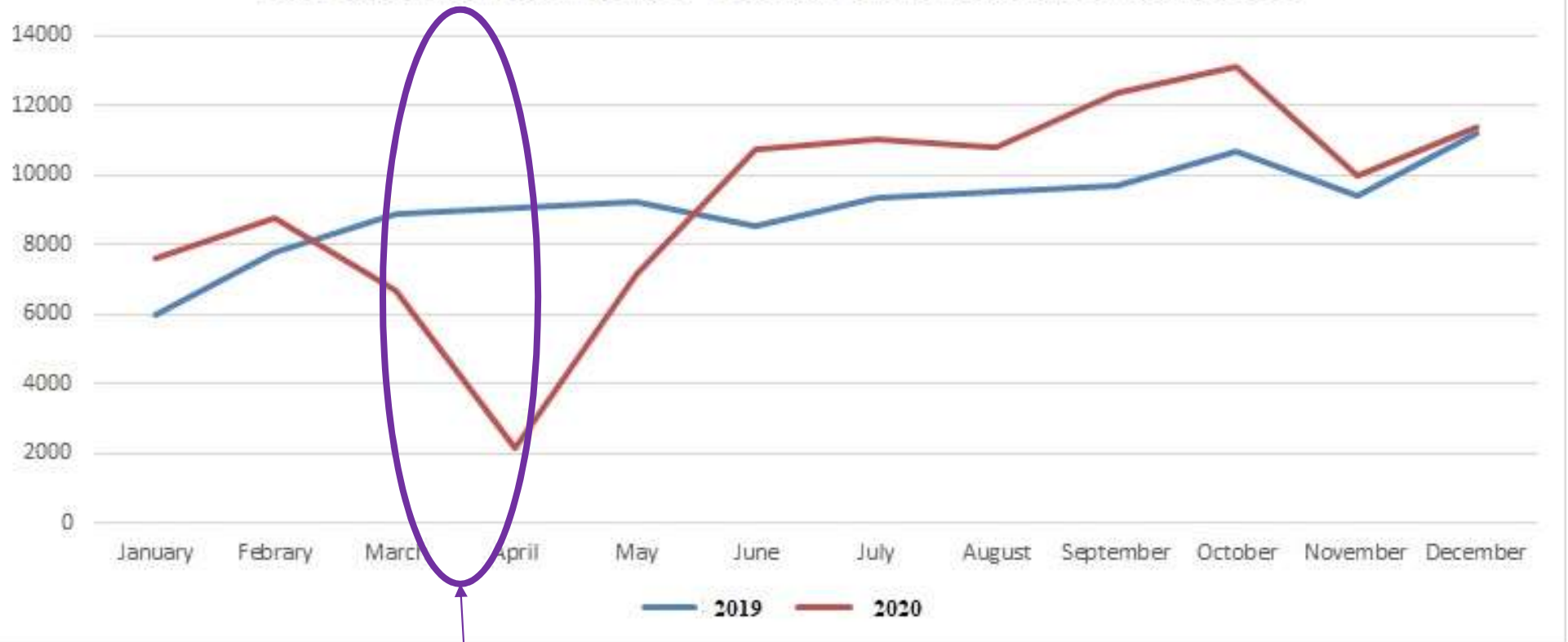


ACTIVITIES DURING COVID?

- **All RGA employees started to work remotely from home**
- **All RGA services were online:**
 - **eCadaster**
 - **eFrontDesk with additional users (around 1500 advocates and geo organisations)**
 - **Online Support / Online Chat App with RGA info centre**
 - **Online check of the case status**
 - **eCompliance**
 - **Online service for downloading decision document**
 - **etc**
- **Focus on Sales Price register**
- **DETAILED WEEKLY REPORTS ON REAL ESTATE MARKET CONDITIONS!**

REAL ESTATE MARKET DURING COVID 19

Real Estate Market in Serbia - Number of transactions 2019 vs 2020



Lockdown

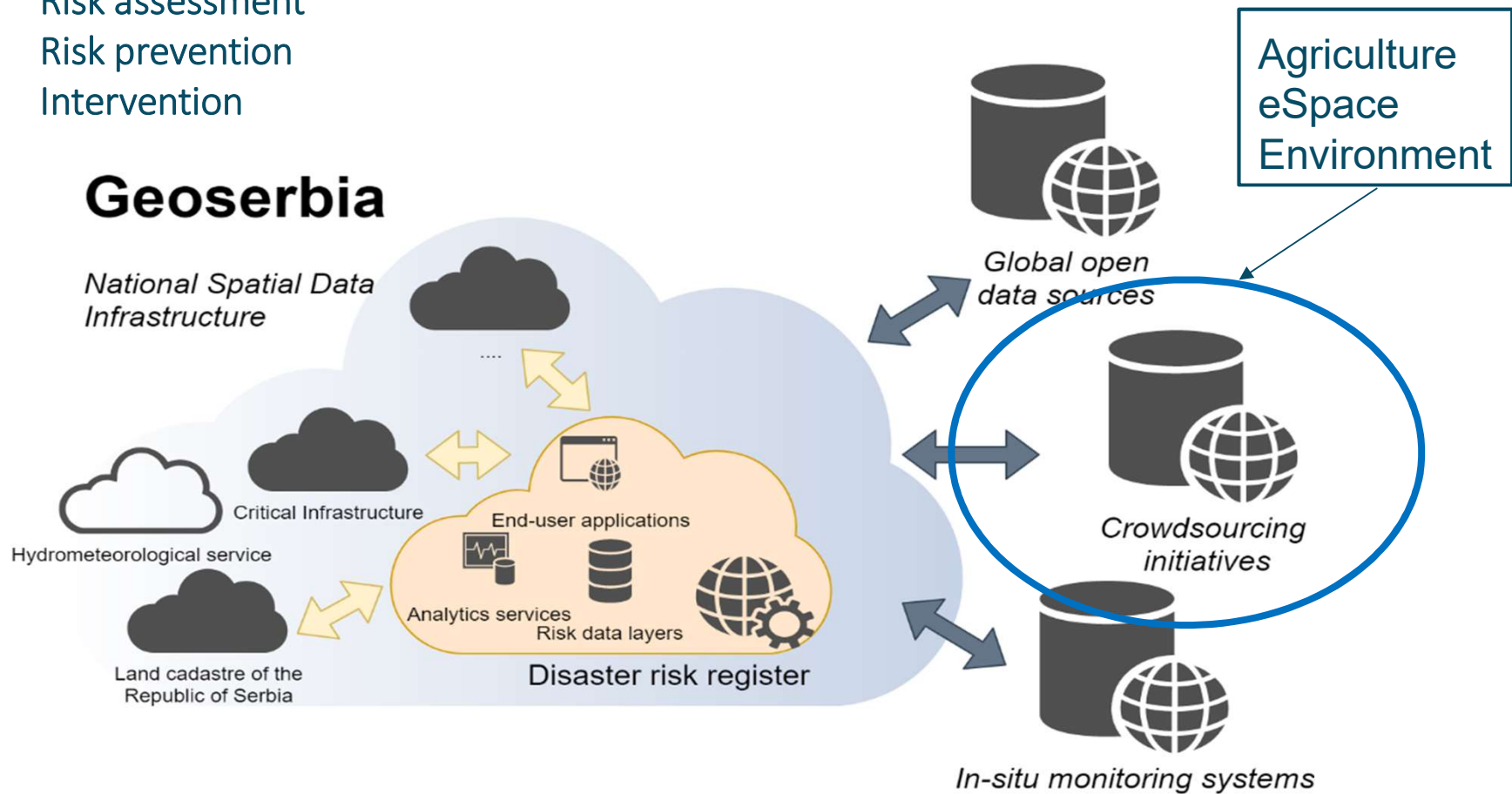
**LACK OF AVAILABLE PROPERTIES
HIGH PRICE**

How we can build better?

DISASTER RISK REGISTER SYSTEM

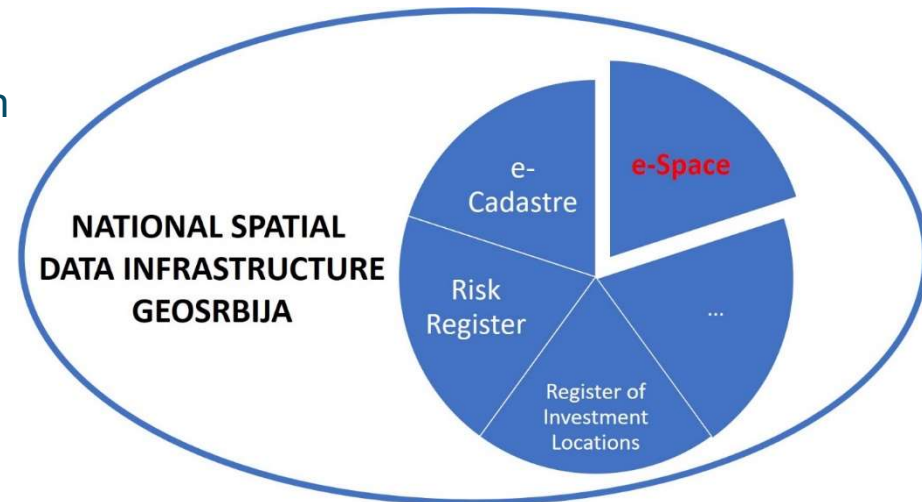
CONCEPT OF DISASTER RISK REGISTER

Risk assessment
Risk prevention
Intervention



E-Space project

- E-space is a digital platform for the integration of spatial information between the goals of sustainable development and social responsibility, with citizens, the economy and public administration in the territory of the Republic of Serbia. The basis of E-space, using information technologies, is the digital exchange of spatial data of the National Geospatial Data Infrastructure.



- To establish the spatial and urban planning documents – standardization of spatial and urban plans and creation of centralized database of spatial and urban plans;
- To develop digital procedures for the spatial and urban planning documents preparation/revision, adoption and implementation;
- To develop geovisualization capacities and build to needs adjusted communication tools/channels for the project stakeholders;
- To train and build necessary capacities of project stakeholders; and
- To create appropriate legal and organizational frameworks for the project's results sustainability.

WHAT ABOUT INFORMAL PROPERTIES IN SERBIA?

- **UN(ECE) documents and studies can contribute significantly to speed up the formalisation process in Serbia – only solution from our perspective!**
- **We can finally do it right and to respect the internationally recognized good practices**
- **The problems and solutions to deal with informal development are well known. Technology and data are known and available.**
- **COVID-19 Recovery Action Plan is perfectly tailored and fit with real needs and other documents, studies and recommendations and should be linked with Socio-economic study – it is confirmed in Serbia!**
- **Benefit for pandemic resilience, and the 2030 Agenda for Sustainable Development and the 17 SDGs achieve!**
- **THANK YOU!**

THANK YOU FOR YOUR ATTENTION!

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