

UNECE WORKING PARTY ON LAND ADMINISTRATION
Twelfth session
31 May and 1 June 2021

NSDI, geospatial data and technology: The role of geospatial and cadastre agencies in the COVID-19 pandemic response

Webinar on 11 May 2021

Konstantin Litvintcev

Acting Director of the Federal Cadastral
Chamber of Rosreestr

31 May 2021



FEDERAL CADASTRAL CHAMBER
OF ROSREESTR



Speakers of the webinar



Konstantin Litvintcev
Acting Director of the Federal Cadastral Chamber of Rosreestr, Russian Federation



Hartmut Mueller
Chair of FIG Commission 3 and Senior Professor for Geoinformatics at Mainz University of Applied Sciences



Marina Litreeva
Head of GIS-Department, National Cadastral Agency, Republic of Belarus



Steven Ramage
Head of External Relations, GEO Secretariat



Darko Vucetic
Head of Centre of Excellence for Geospatial Information Management, Republic Geodetic Authority, Republic of Serbia

Key topics



How do existing geoinformation systems and services contribute to the response to the pandemic and to more effective decision-making in general?



What areas of development of geoinformation systems become a priority?



How are the requirements for geoinformation systems and data changing?

Contribution of geoinformation systems and services to the response to the pandemic and to more effective decision-making

Examples of areas of geodata and services use in the period of COVID-19

- **Managing lockdown (borders control)**
- **Tracking people on isolation**
- **Identification of high-risk areas**
- **Medical infrastructure (addresses of institutions, availability of equipment, workload, etc.)**
- **Monitoring of the situation in social institutions**
- **Monitoring of public utility systems**
- **Logistics and delivery**
- **Support for agriculture**
- **Environmental and climate issues**
- **Informing the public and the media**
- **Interest in suburban real property**
- **Etc.**

GIS and cadastre data in high demand

- **Information about real property units (buildings, land plots, including boundaries, location)**
- **Administrative division, State borders**
- **Addresses (location data)**
- **Streets (names, geodata), roads**
- **Zones with special conditions for use**
- **Satellite visual information**
- **Information about real property transactions and prices**
- **Cadastre of natural resources (state of the environment) (Belarus)**
- **Etc.**

Contribution of geoinformation systems and services to the response to the pandemic and to more effective decision-making

The role of geospatial and cadastre agencies

Key databases:

- **Russia – Unified State Register of Real Property**
- **Belarus – Unified State Register of Immovable Property, Rights Thereto and Transactions Therewith**
- **Serbia – Real Estate Cadastre, registers**

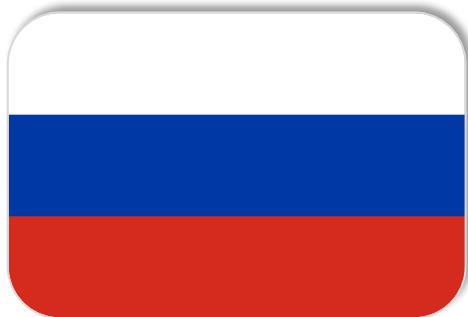
Services in high demand:

- **Russia – Public Cadastral Map, e-services**
- **Belarus – Public Cadastral Map, e-services**
- **Serbia – Geoportal Geoserbija, mobile apps, eCadaster, eFrontDesk, eServices**
- **etc.**

All speakers mentioned the introduction of new electronic services and / or increased demand for existing electronic services for real property registration, obtaining information from registers and other online services.

Contribution of geospatial and cadastre agencies

Additional services to support the economic turnover of real property



In Russia:

- Service “Land for Development”
- Cadastral value on Public Cadastral Map
- Service “Real Property Transactions” (heat map of transaction turnover) on Public Cadastral Map



In Belarus:

- Register of estimated value (cadastral value, taxes)
- Register of real property prices



In Serbia:

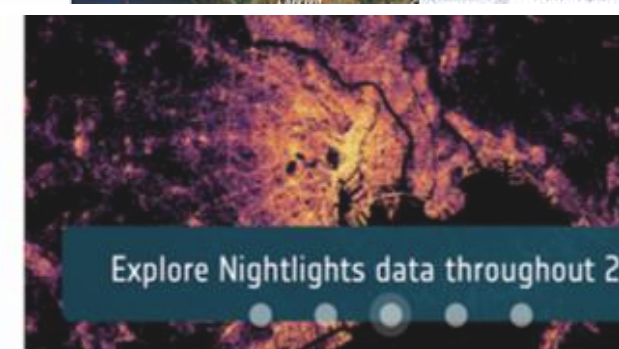
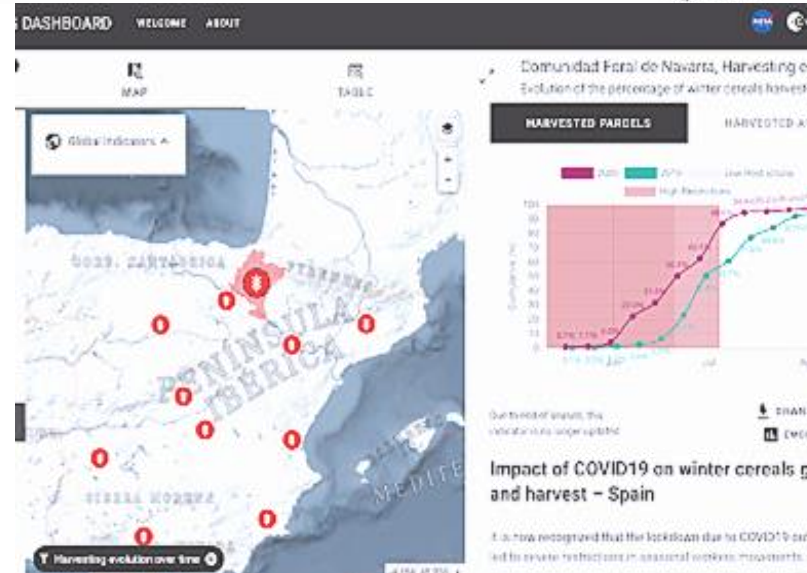
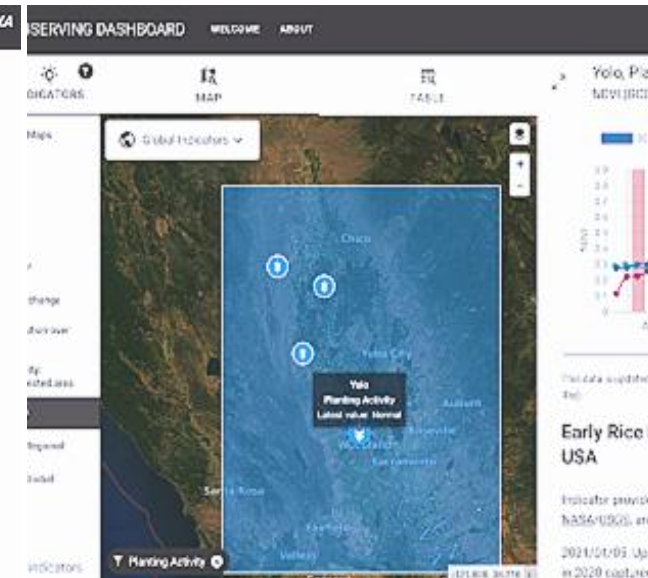
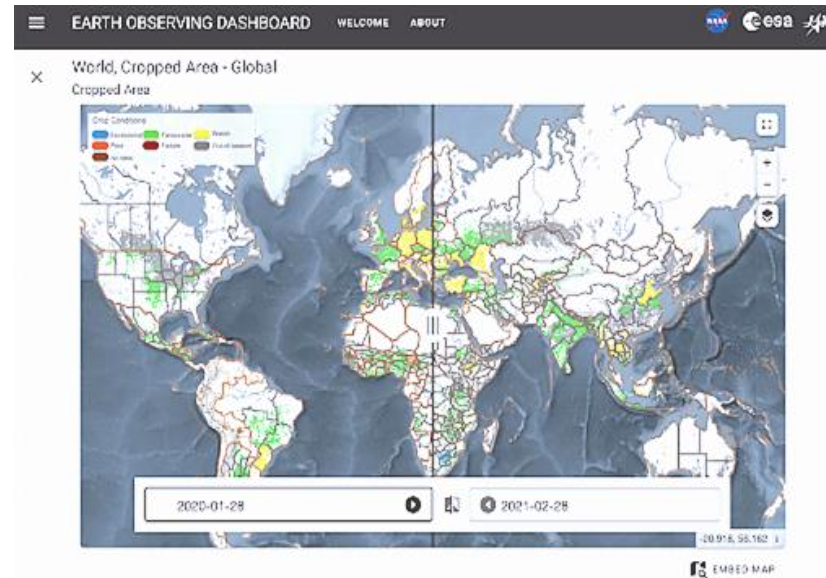
- Sales Price Register
- Register of real-estate offers (sale and lease) (under development)
- Weekly reports on real property market conditions

Use of satellite data for open information portals and planning

From presentation of Steven Ramage

Satellite data help Togolese Government allocate aid to farmers under COVID 19 loan Program

YOLIM has supported over 57,000 small holder farmers across Togo with interest free loans!



Priority areas and projects for GIS development Russia

Unified information resource on land and real property

From presentation of Konstantin Litvintcev

Ensuring the quality and integration of data on land and real property units contained in state information resources, as well as improving the efficiency of the use of land and property complex in the Russian Federation

Service

“Land Simply”

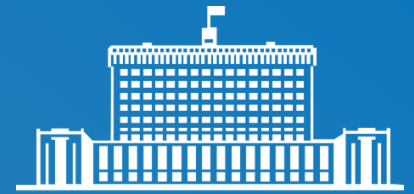
Service

“Land for Development”

Service

“Analysis of the Land Condition and Use”

Analytical functions



GOVERNMENT
OF THE RUSSIAN
FEDERATION

DECREE

of the Government
of the Russian Federation
as of 31.12.2020

№ 2429

“On Conducting an Experiment
in 2021 to Develop a Unified Information
Resource on Land and Real Property”



Heat map of transaction turnover

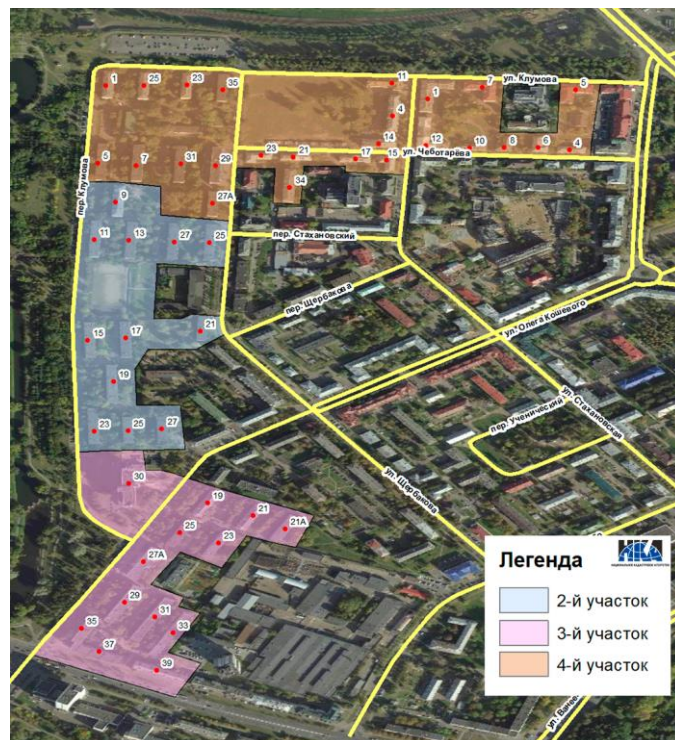


A layer of data on land parcels for construction on Public Cadastral Map

Priority areas and projects for GIS development Belarus

- Increase in the number of electronic services
- Development and implementation of intelligent and expert systems to support decision-making
- Ensuring the exchange of geoinformation between state information resources
- Implementation of geomonitoring and management of spatial data of information systems and resources of the State Land cadastre through Public Cadastral Map
- GIS support to land management, monitoring of land types based on remote sensing data
- Development and advancement of NSDI

From presentation of Marina Litreeva



Priority areas and projects for GIS development Serbia

- Further development of the Information System for Real Estate Cadastre
- Development of National Distribution of Spatial Data
- Development of e-conveyancing
- Development of the Disaster Risk Register System on the basis of the geospatial platform Geoserbija

From presentation of Darko Vucetic

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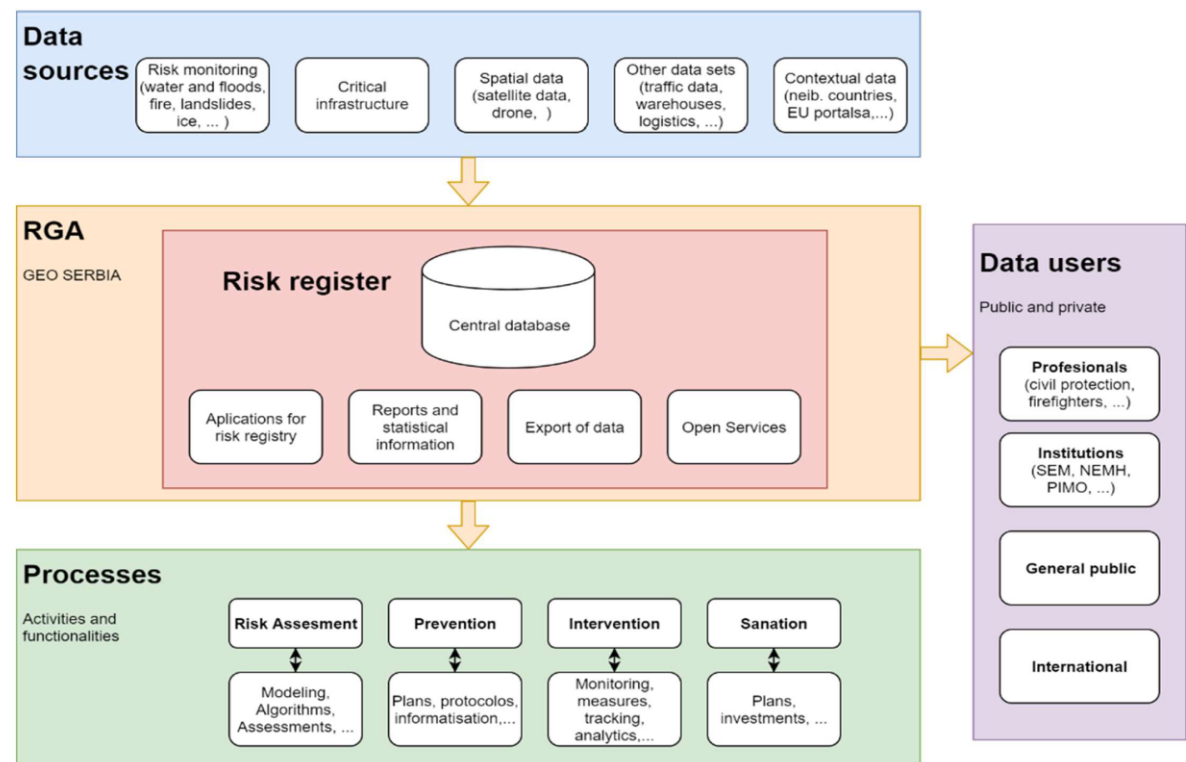
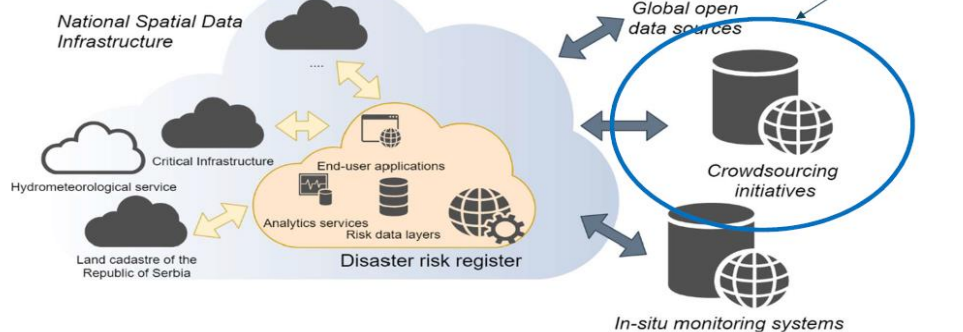
How we can build better?

DISASTER RISK REGISTER SYSTEM

CONCEPT OF DISASTER RISK REGISTER

Risk assessment
 Risk prevention
 Intervention

Geoserbija



Conclusions of the webinar

How are the requirements for geoinformation systems and data changing

- **The need to respond to the COVID-19 pandemic has led to an increase in number of geo-data users, as well as to the change in the composition of users**
- **The interoperability of systems and harmonization of data have become more relevant due to the demands for 1) integrative services containing data from different sources and 2) cross border spatial data exchange**
- **Real time data provision became highly demanded**
- **Ensuring data quality and reliability requires more efforts and coordination as well as innovative approach (e.g. crowdsourcing)**
- **The importance of open data has increased**

Conclusions of the webinar

What helped geospatial and cadastre agencies (using the example of webinar participants):

- **Digitalization and electronic services**
- **Review of business processes and optimization of interaction with other interested organizations**
- **Use of the best practices and development principles adopted at the international level (e.g. IGIF, INSPIRE)**



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of the United Nations**

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