



This project is funded by the European Union

ENI SEIS II East

Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP East region

National experiences on land cover / land use mapping *for the ENI SEIS II East project*

Belarus

Galina Shilo and Ekaterina Poleshchuk
National Statistical Committee of the Republic of Belarus



*Materials of the State Property Committee of the Republic of Belarus
were used in preparing this presentation*



1. How is Belarus doing land mapping?

Competent state authority:

State Property Committee

www.gki.gov.by

- carries out uniform state policy in the field of land ownership, geodetic and mapping activities, the naming of geographic features, maintenance of the respective cadastres and registers, as well as state regulation of geodetic and mapping activities and land use planning



2. Which methods are used? (1/2)

To obtain up-to-date information about the country's land cover, a three-level data acquisition system is used:

- ✓ satellite imaging using a Belarussian satellite
- ✓ aerial photography using an airborne camera, drones
- ✓ geodetic surveys

The annual coverage by aerial photography with spatial resolution 30 cm is 42-43 thousand sq. km
(20% of Belarus territory)



2. Which methods are used? (2/2)

- The acquired data are used to update an integrated orthophotographic base covering the entire area of the country
- The base includes:
 - ✓ an orthophotomosaic – a seamless mosaic based on aerial images with resolutions 5-50 cm. Both crewed aircraft (equipped with the ADS-100 camera) and drones are used to produce images
 - ✓ metadata (information about coverage) for completed surveys
 - ✓ archived orthophotomosaics from previous years

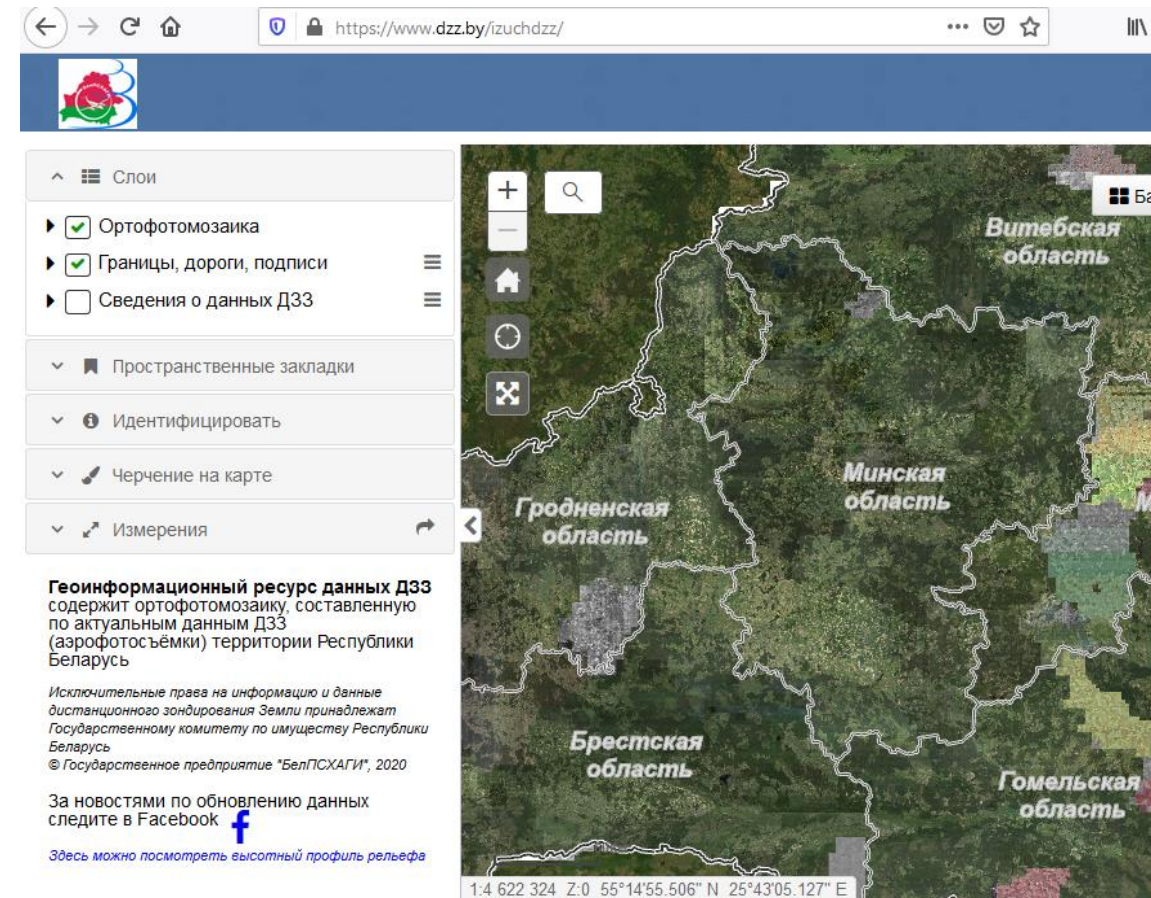


3. Relevant national applications (1/5)

Geoinformation resource of remote-sensing data:

<https://www.dzz.by/izuchdzz/>

- includes an orthophotomosaic based on the most recent aerial survey for the Republic of Belarus
- the resource is updated continuously
- the data are used by land use and forest planning services, in topographic and geodetic activities, engineering surveys, for environmental activities, emergency prevention etc.



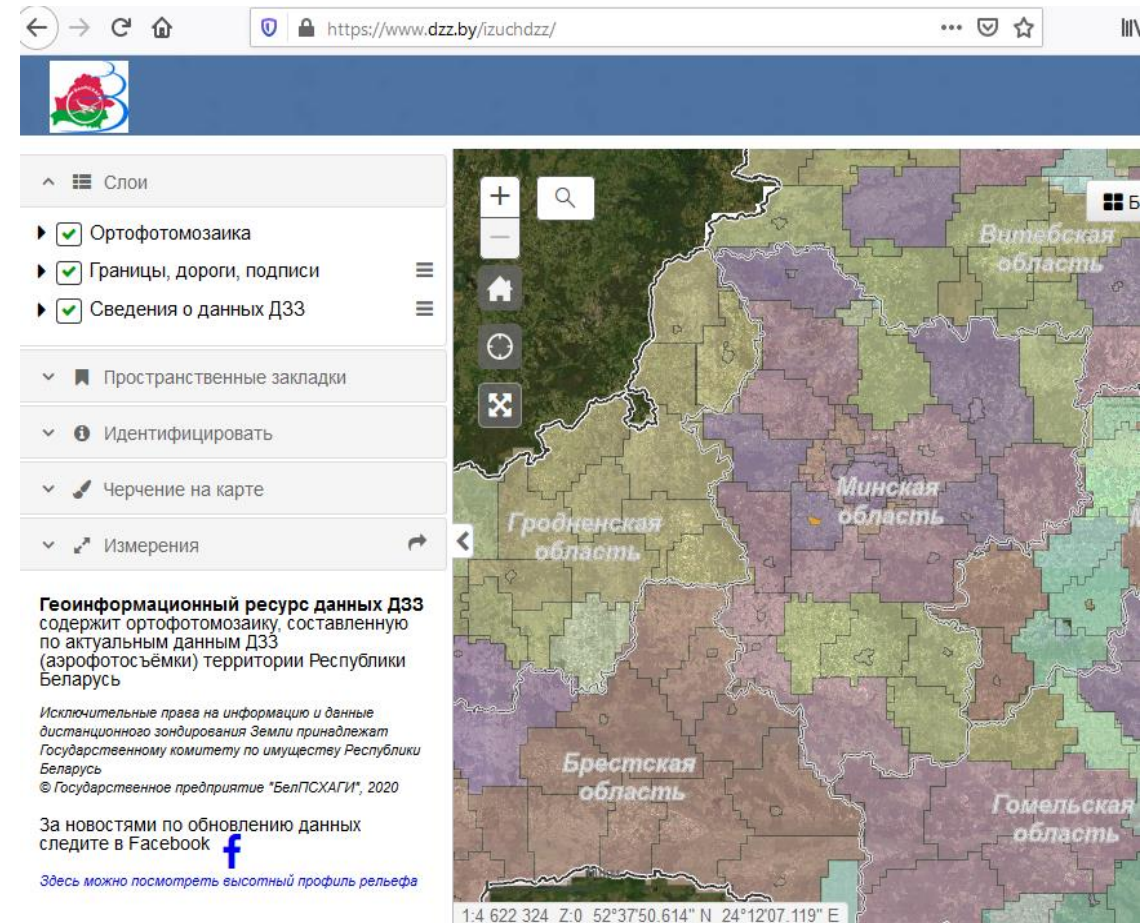
3. Relevant national applications (2/5)

Geoinformation resource of remote-sensing data:

<https://www.dzz.by/izuchdzz/>

The State Property Committee uses data to maintain various cadastres and registers, including:

- Single registry of administrative and territorial units of the Republic of Belarus
- Single state registry of immovable property, property rights, and transactions involving it
- Register of land value
- Register of land prices
- Register of land resources



Слои

- ▶ Ортофотомозаика
- ▶ Границы, дороги, подписи
- ▶ Сведения о данных ДЗЗ

Пространственные закладки


Идентифицировать

Черчение на карте

Измерения

Геoinформационный ресурс данных ДЗЗ
содержит ортофотомозаику, составленную по актуальным данным ДЗЗ (аэрофотосъёмки) территории Республики Беларусь

Исключительные права на информацию и данные дистанционного зондирования Земли принадлежат Государственному комитету по имуществу Республики Беларусь
© Государственное предприятие "БелПСАГИ", 2020

За новостями по обновлению данных следите в Facebook 

Здесь можно посмотреть высотный профиль рельефа

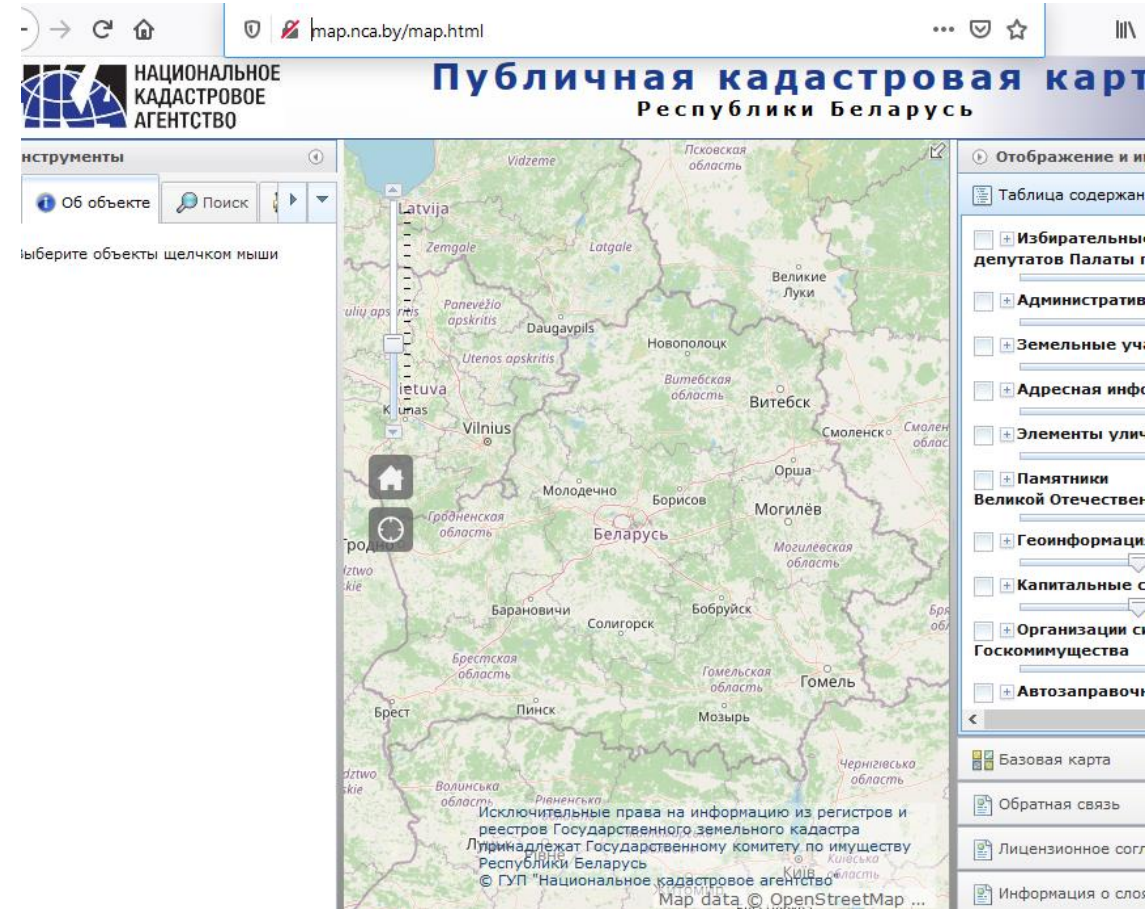
1:4 622 324 Z:0 52°37'50.614" N 24°12'07.119" E



3. Relevant national applications (3/5)

Public cadastre map of the Republic of Belarus:
<http://map.nca.by>

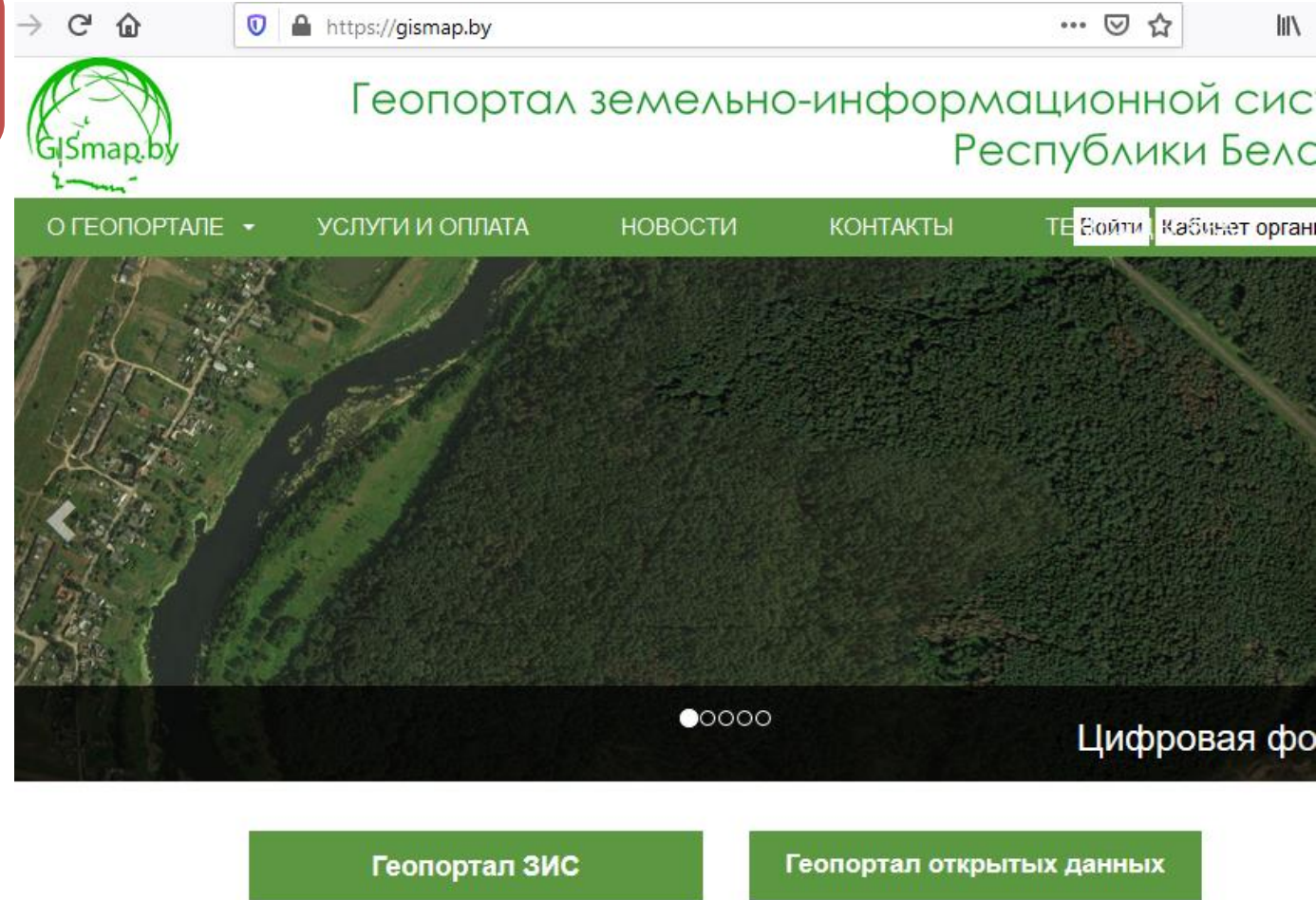
- legally valid electronic way of presenting information from registers of the State Land Cadastre and any other information mapped with the consent of its holders (e.g. areas where flying aircraft models is prohibited, border strips and areas, location of agencies providing subsidies etc.)
- has been created to support geo-monitoring and management of spatial data from various information sources



3. Relevant national applications (4/5)

Land information system of the Republic of Belarus: <https://gismap.by/>

- a complex of hardware, software, georeferenced databases and other resources supporting automated processes of the collection, processing, storage and sharing of information in electronic format, in particular using GIS technology, about the state, allocation and use of the country's land resources
- **Objective:** to enhance the effectiveness of land management, to support state accounting and oversight of land use

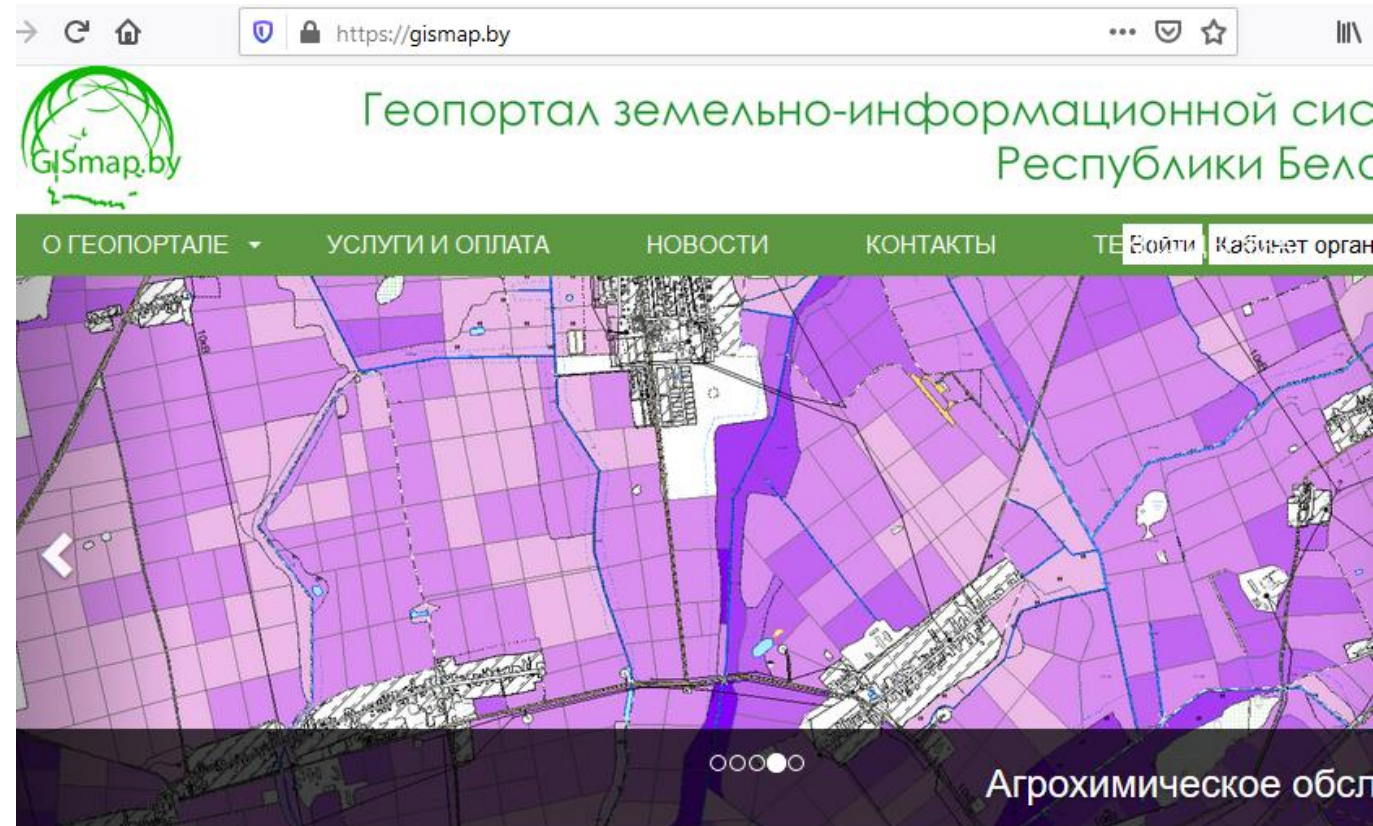


3. Relevant national applications (5/5)

Land information system of the Republic of Belarus: <https://gismap.by/>

Contains up-to-date information about:

- administrative and territorial units
- land parcels, their area, designated use and title holders
- land types and categories
- restrictions on land use
- land improvement status
- soil types
- transport and communications infrastructure



Thank you for your attention!

Ekaterina Poleshchuk

Head of the Environmental Statistics Department,
National Statistical Committee of the Republic of Belarus
E-mail: ekaterina.poleshchuk@belstat.gov.by

Galina Shilo

Consultant of the Environmental Statistics Department,
National Statistical Committee of the Republic of Belarus
E-mail: sh@belstat.gov.by

