



Rosreestr

Federal Service for State
Registration, Cadastre
and Cartography

Activities of the Federal Service for State Registration, Cadastre and Cartography (Rosreestr)

Alexey Trifonov

**Deputy Head of Geodesy and Cartography Department
of Rosreestr**

November, 2024



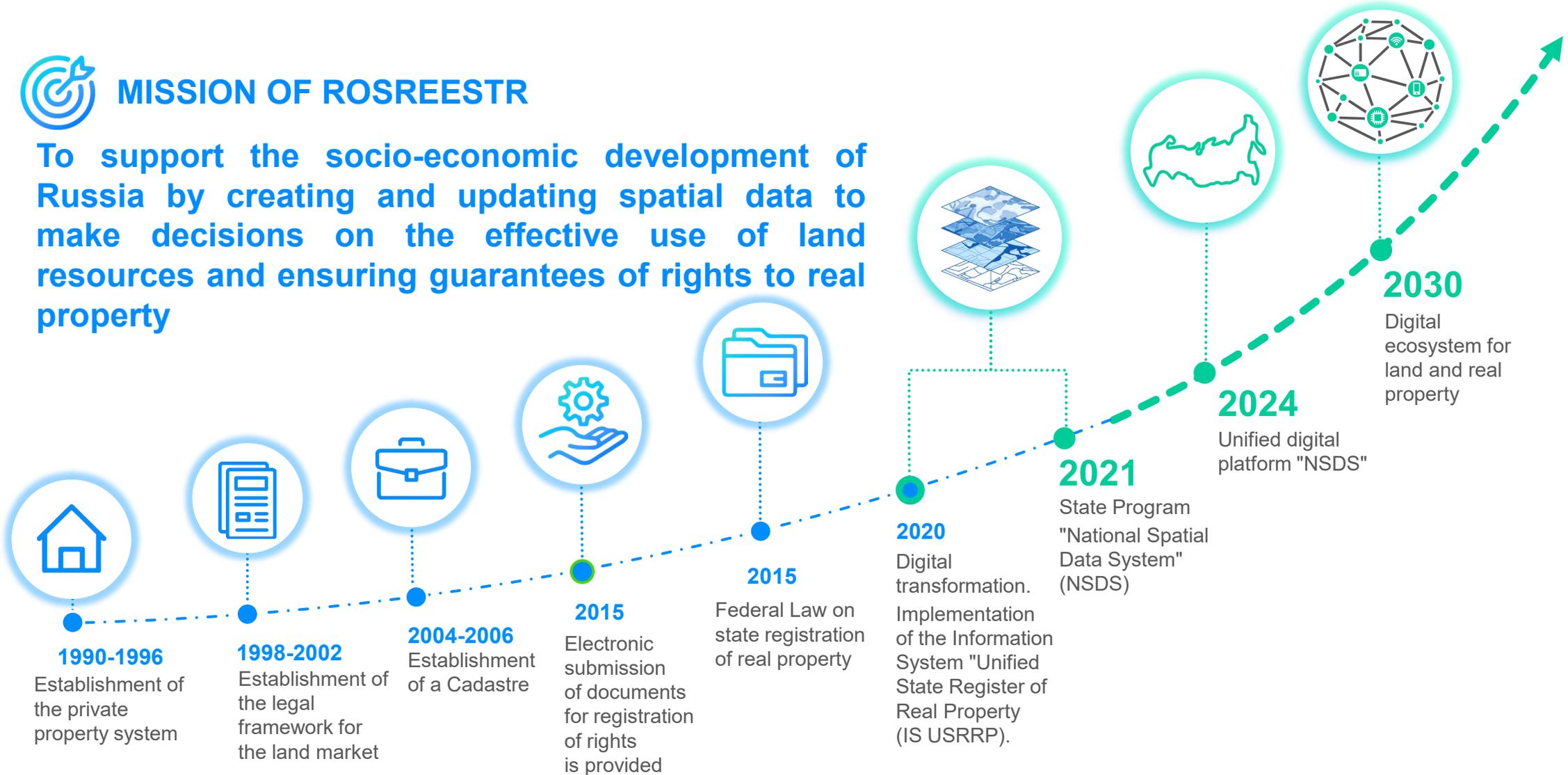


Development of the cadastral system in Russia



MISSION OF ROSREESTR

To support the socio-economic development of Russia by creating and updating spatial data to make decisions on the effective use of land resources and ensuring guarantees of rights to real property





What is Big Rosreestr now

2022

2024

 **Rosreestr**
Governmental agency

 **Federal State Budgetary Institution «Federal Cadastral Chamber of Rosreestr»**
Development, maintenance and provision of data from the IS USRRP

 **JSC «Rostechinventarizatsiya-Federal Bureau of Technical Inventarisation»**
Cadastral activities

 **Federal State Budgetary Institution «Centre for Geodesy, Cartography and SDI»**
Creation of Basemap, maintenance of Federal Spatial Data Fund, GIS operator

 **JSC «Roscartography»**
Cartographic and geodetic activities

 **Rosreestr**
87 territorial bodies

- Formation of land policy
- Regulatory and legal activities
- Cadastral registration
- State registration of rights
- Regulation of geodesy and cartography industry
- Control, supervisory and permitting activities
- Implementation of state monitoring of lands (except for agricultural lands)

 **Roskadastr**
116 branches

- IT-integrator
- Geodesy and cartography works
- Land management
- Cadastral works
- Digitalization of data, State Fund of Land Survey Data (SFLSD) materials
- Funds of data
- State cadastral valuation
- Provision of geospatial data
- Provision of Basemap
- Industry science

Reorganization and merger of subordinate institutions

Full-cycle enterprise

Formation of an updated strategy for the period up to 2030 and building competencies in the market of services



I STAGE – IV STAGE
31.10.2022 – 01.01.2024

V STAGE
01.05.2024

VI STAGE
Present time



52 334 employees



Structure of Real Property Register

Cadaster

№ объекта	Записей о правах, ограничениях и сделках	Записей о частях	Адрес объекта/вид права, ограничение/ограничение, сделка	Дата постановки на учет/регистрации	Дата снятия с учета/погашения
44425-0000000-44425-000001-4	Запись о помещении		Россия, Красноярский край, г. Норильск, район Центральный, ул. Ленинградская, д. 17, кв. 2	19.11.2013 20:00:00	
44425-0000000-44425-000001-4	Запись об ограничении прав и обременениях		Ипотека в силу закона	16.11.2021 7:11:35	
44425-0000000-44425-000001-4	Запись о вещных правах		Собственность	16.11.2021 7:11:35	Актуальна
44425-0000000-44425-000001-4	Запись о вещных правах		Собственность	21.10.2021 12:30:53	Погашена

REGISTER OF RIGHTS



BUILDINGS



LAND PARCELS



- ✓ **Records** of rights, transactions, restrictions and encumbrances on land parcels and buildings
- ✓ **Ensuring unity** of the land parcel and the building located on it



REGISTER OF BOUNDARIES (ADMINISTRATIVE BOUNDARIES, ZONES)



CADASTRAL DIVISION



UNIFIED DIGITAL BASEMAP



>172 million objects in USRRP

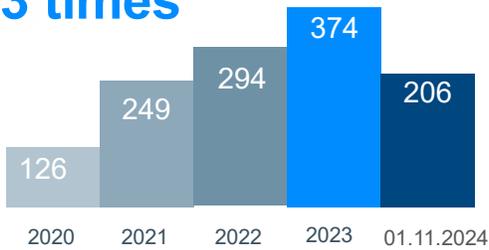
More than 100 characteristics of each real property



Key performance indicators of cadastral system

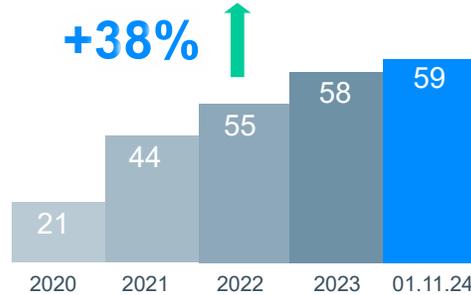
Number of services per year, million

↑ 3 times



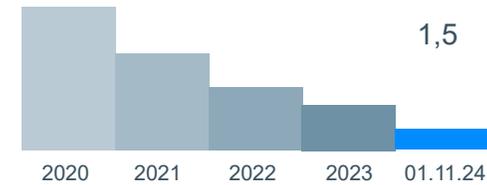
Electronic registration, %

+38%



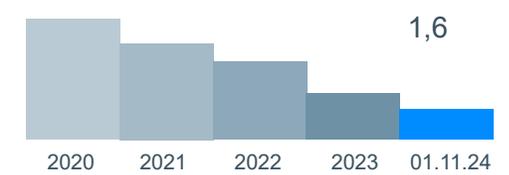
Registration of rights, days

↓ 3,6 times



Cadastral registration, days

↓ 2,5 times



497,6
thousand

Information on administrative boundaries and territorial zones is contained in the USRRP

172,5
million

Real property units included in USRRP

1067
trillion

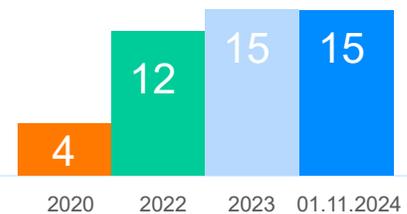
Total cadastral value of real property units, growth by 321 trillion since 2020

68,6%

Integral Indicator of creation of the Unified Digital Basemap of the territory of the Russian Federation

Services per second

+11 ↑



248 million entries in the register of rights:

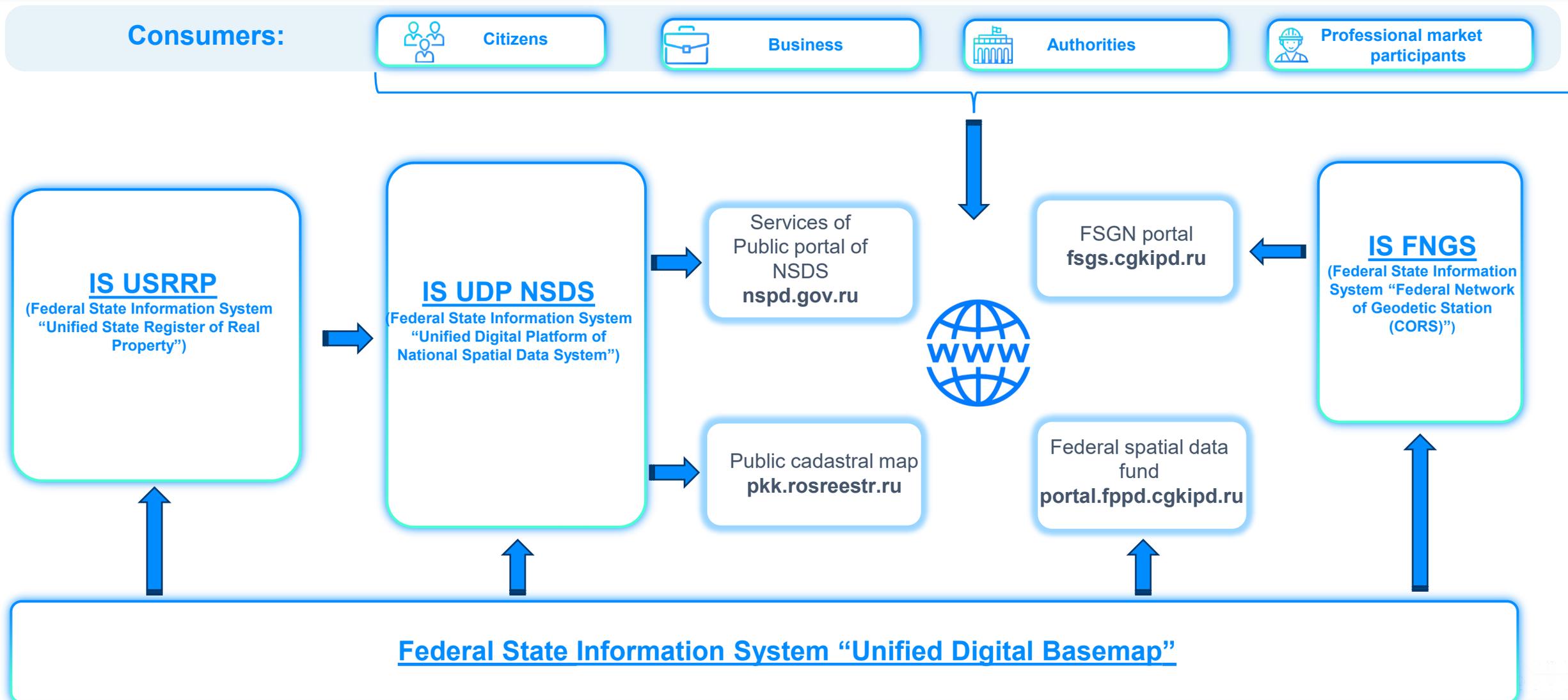
Property rights- 192,6 million

Transactions - 15,6 million

Restrictions and encumbrances - 39,8 million



Geospatial information ecosystem of Rosreestr





State information system Unified Digital Basemap

POSSIBILITIES

- ✓ **Loading and transformation** of various spatial data: maps, orthoimagery
- ✓ **Creation, storage and processing** Basemap
- ✓ **Provision of Basemap** to public authorities, local governments, individuals and legal entities
- ✓ Data relevance **monitoring**
- ✓ Data **updating**

24 hours a day
provision of Basemap

>146
state authorities receive data

CONSUMERS OF BASEMAP:



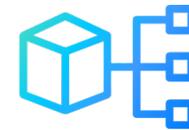
Urban planning support
systems



IS
USRRP



Public Cadastral Map,
IS "To the Far East",
investment portals



Federal and
regional IS



Legal entities and
individuals



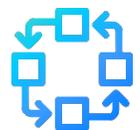
Federal state information system “Unified State Register of Real Property” (IS USRRP)



Federal modular distributed multi-user system



Implementation **in all regions of the country** was completed in 2020



Centralized execution of main **technological processes**



Centralized **storage and processing** of structured information

>300 thousand
records
are entered
daily

22 thousand
active users

Benefits of IS USRRP

Centralization:

- all data is stored in one place
- extraterritorial document processing
- centralized control

Automation:

- automated checks
- uploading information to the USRRP from electronic documents
- automatic generation and distribution of notifications to the client

Information security:

- flexible user role configuration model
- logging of all user and system actions
- backup mechanisms

Digitalization:

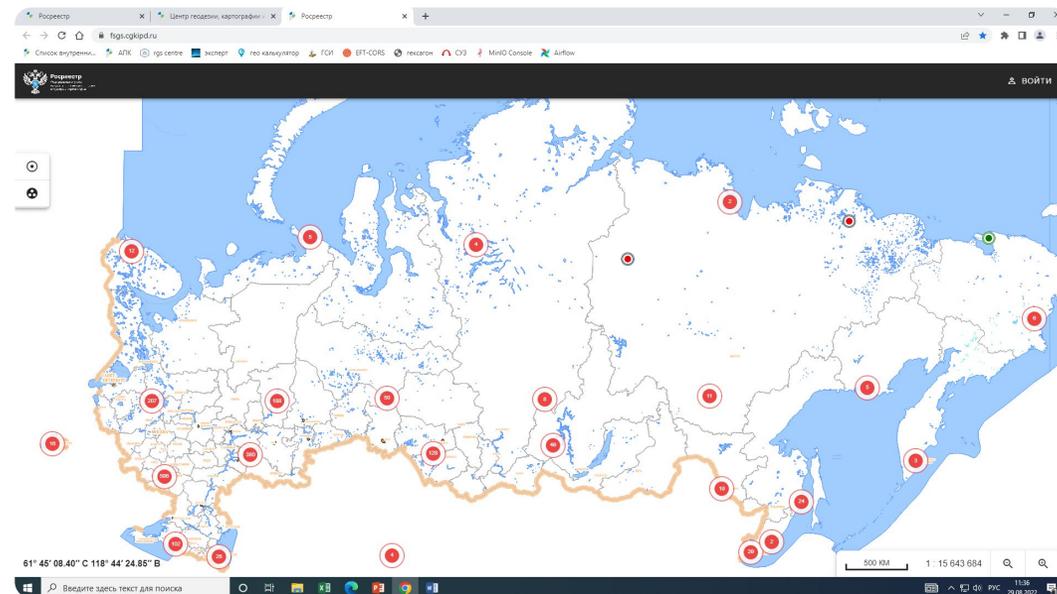
- unified connection of external information systems
- seamless data upload
- basis for the transition to an electronic format for the provision of public services



Information System of the Federal Network of Geodetic Stations (IS FNGS)

POSSIBILITIES:

- ✓ **Integration of existing** operator geodetic **station** networks
- ✓ **Collection of raw satellite measurement data** from **CORS**
- ✓ **Long-term reliable storage** of information arrays with initial measurement and additional information, intermediate and final results of its processing
- ✓ **Establishment and maintenance** of integrated database
- ✓ Data **processing 24/7**



fngs.cgkipd.ru

To date the FNGS
combines
more than 2700
CORS



IS UDP NSDS

is **domestic geoinformation software** created to work with spatial data of federal and regional information systems



>800 virtual machines ensuring stable and fast operation of the System



>100 software products forming a unified environment



16 complex subsystems, including the use of machine learning and artificial intelligence

IS UDP NSDS

Regional Spatial Data Information Systems (3366 layers)

Federal Spatial Data Information Systems (277 layers)

Cadastral Data & Basemap



SERVICES 2023

- ✓ **Land for construction**
Choosing land parcel for construction
- ✓ **Urban planning online**
Analysis of the possibilities of using land parcels
- ✓ **Approvals in construction**
Obtaining special permits in the construction cycle
- ✓ **Residential housing construction**
State services for placing single-family houses

- ✓ **Land for tourism**
Choosing land parcel for recreational facilities
- ✓ **My property**
Monitoring of changes in property units
- ✓ **Smart cadastre**
Detection of unregistered property units
- ✓ **Land rights simply**
Granting land parcel

- ✓ **Thematic data layers**
Creation of thermal and other thematic maps
- ✓ **Use of spatial data in control (supervision) activities**
Prevention of violations in the field of land use
- ✓ **Integrated development of territories**
Digital tool for integrated development

SERVICES 2024 (in progress)

- ✓ **Spatial data authentication**
Verification of government decisions based on the most complete data
- ✓ **Tools of state cadastral valuation**
Fair cadastre value
- ✓ **Places for small business**
Ensuring the placement of nonstationary retail facilities

- ✓ **Land for a farmer**
Search for land parcels most suitable for agriculture
- ✓ **Correction of register errors**
Reconciliation of borders in digital and on the ground
- ✓ **Assistant of surveyor**
Ensuring engineering surveys

- ✓ **National Data Management System (NDMS) spatial service**
Development of NDMS in terms of working with spatial data
- ✓ **Visualization of spatial data**
Creating graphics for text documents
- ✓ **My address**
Address geocoding



Smart Cadastre service



The screenshot displays the 'Сервис Умный Кадастр' (Smart Cadastre Service) interface. The browser address bar shows 'nspd.gov.ru'. The page title is 'НСПД | Сервис Умный Кадастр'. The main heading is 'Анализ состояния земель и объектов капитального строительства' (Analysis of the status of lands and objects of capital construction). The map is titled 'ОКС (по ортофотопланам)' (OCX (by orthophotoplans)).

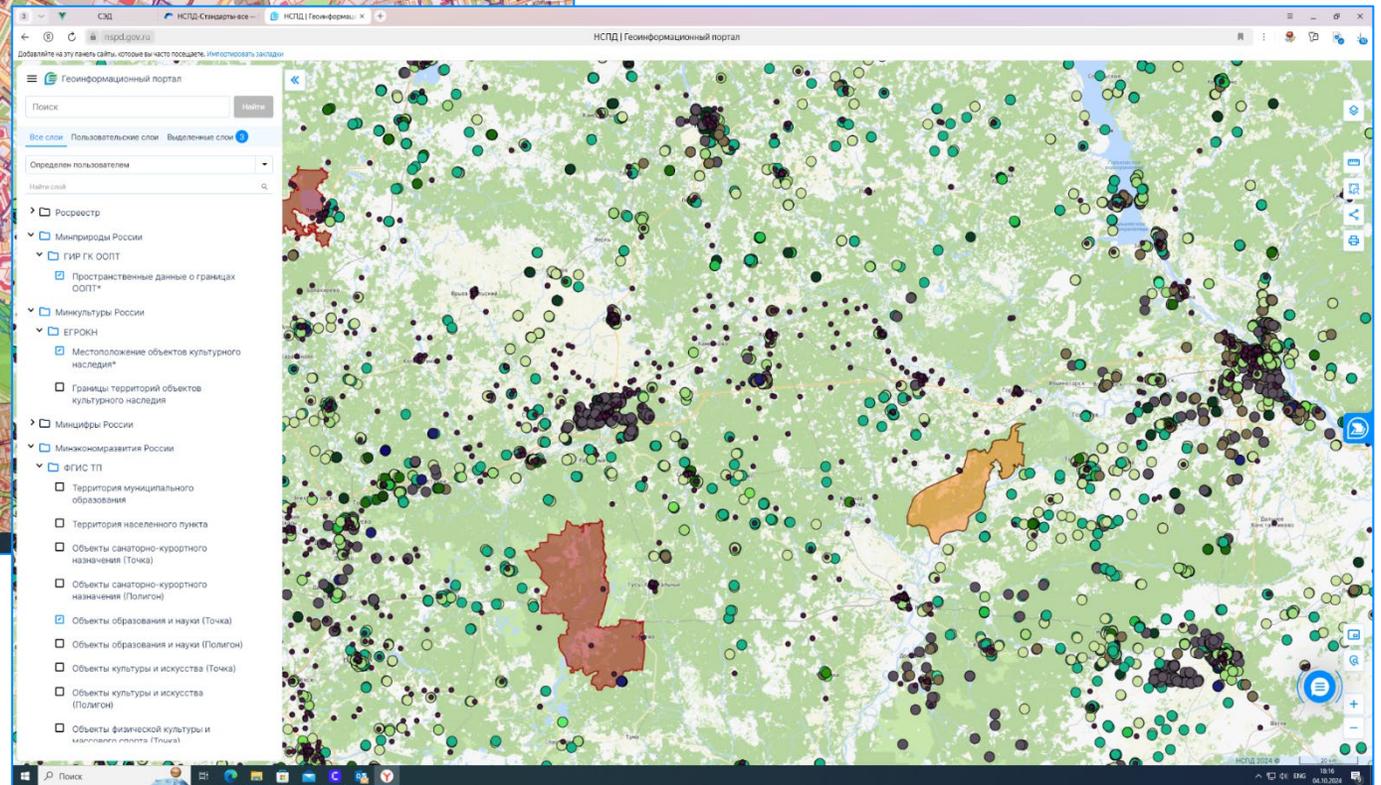
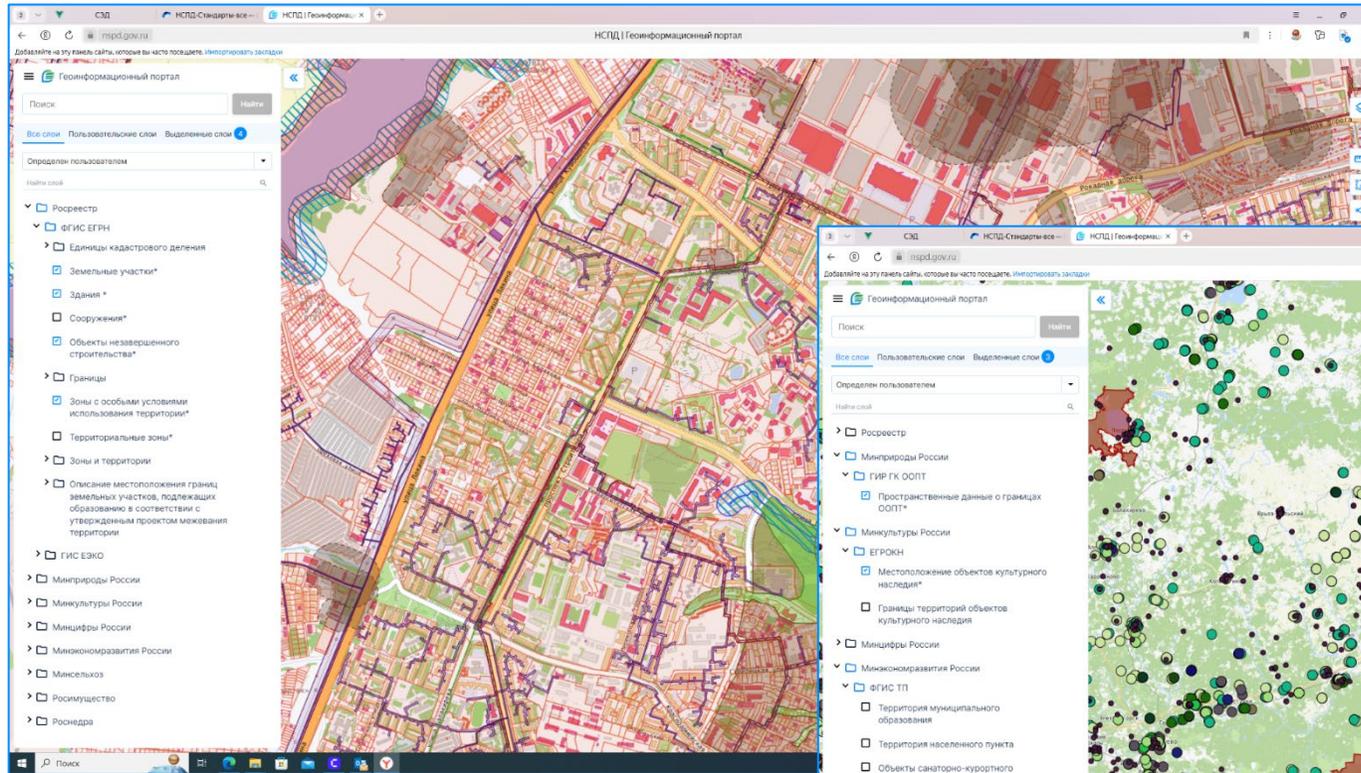
The left sidebar contains a search bar and a legend for 'Объекты капитального строительства (по ортофотопланам)' (Objects of capital construction (by orthophotoplans)). The legend items are:

- Видимость всех слоев (Visibility of all layers)
- Объекты капитального строительства (по ортофотопланам) (Objects of capital construction (by orthophotoplans))
 - Без нарушений (No violations) - Green
 - Не поставлен на ГКУ (Not placed on the GCU) - Red
 - Сведения о границах отсутствуют в ЕГРН (Boundary information is missing in the EGRN) - Orange
 - Неверная площадь объекта (экспериментальная оценка) (Incorrect area of the object (experimental assessment)) - Yellow
 - Нет данных по сопоставлению (No data for comparison) - Purple

The main map area shows an aerial view of a residential area with buildings outlined in various colors corresponding to the legend. A notification at the bottom left reads 'Ошибка в распознавании объекта' (Error in object recognition). The Windows taskbar at the bottom shows the date '04.10.2024' and time '18:29'.



Integrated data in IS NSDS





Росреестр

Федеральная служба
государственной регистрации,
кадастра и картографии

**Thank you
for your attention!**

