State Land Service
Republic of Latvia

# THE MOST IMPORTANT MILESTONES TOWARDS OUR NEW CADASTRE

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Cadastre Development Manager

Bruges, 2024

**641** Employees all over the country

**1** Central Administration

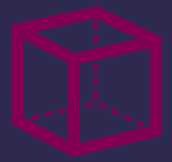
**5** Regional administrations

**15** Customer service centres

# Areas of responsibility

- Cadastre
  - Real estate market database
- Address register
- Information system of restricted territories
- Central database of High-detail topographic information
- Mass cadastral valuation
- Cadastral surveying
- Land reform

# Cadastre
# At a glance
# 2023

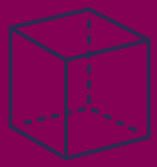


**Objects registered in total**

Real estate
**1 495 355**

Land parcels
**1 041 551**

Buildings
**1 553 748**



**Objects, registered in 2023**

Real estate
**17 822**

Land parcels
**8937**

Buildings
**22 053**

# Textual data of cadastre

For land

For buildings

For groups of premises

The cadastral value for each cadastral object

# Textual data of cadastre

## For land

- the purpose of use,
- encumbrances,
- types of land usage and distribution by areas,
- total area etc.

## For buildings

## For groups of premises

## The cadastral value for each cadastral object

# Textual data of cadastre

## For land

- the purpose of use,
- encumbrances,
- types of land usage and distribution by areas,
- total area etc.

## For buildings

- main purpose of use,
- deterioration of structural elements,
- material,
- distribution of areas (residential/non residential groups of premises) etc.

## For groups of premises

## The cadastral value for each cadastral object

# Textual data of cadastre

## For land

- the purpose of use,
- encumbrances,
- types of land usage and distribution by areas,
- total area etc.

## For buildings

- main purpose of use,
- deterioration of structural elements,
- material,
- distribution of areas (residential/non residential groups of premises) etc.

## For groups of premises

- the purpose of use,
- the name of the group of premises,
- the size of the area (including each apartment) etc.

## The cadastral value for each cadastral object

# Textual data of cadastre



## For land

- the purpose of use,
- encumbrances,
- types of land usage and distribution by areas,
- total area etc.

## For buildings

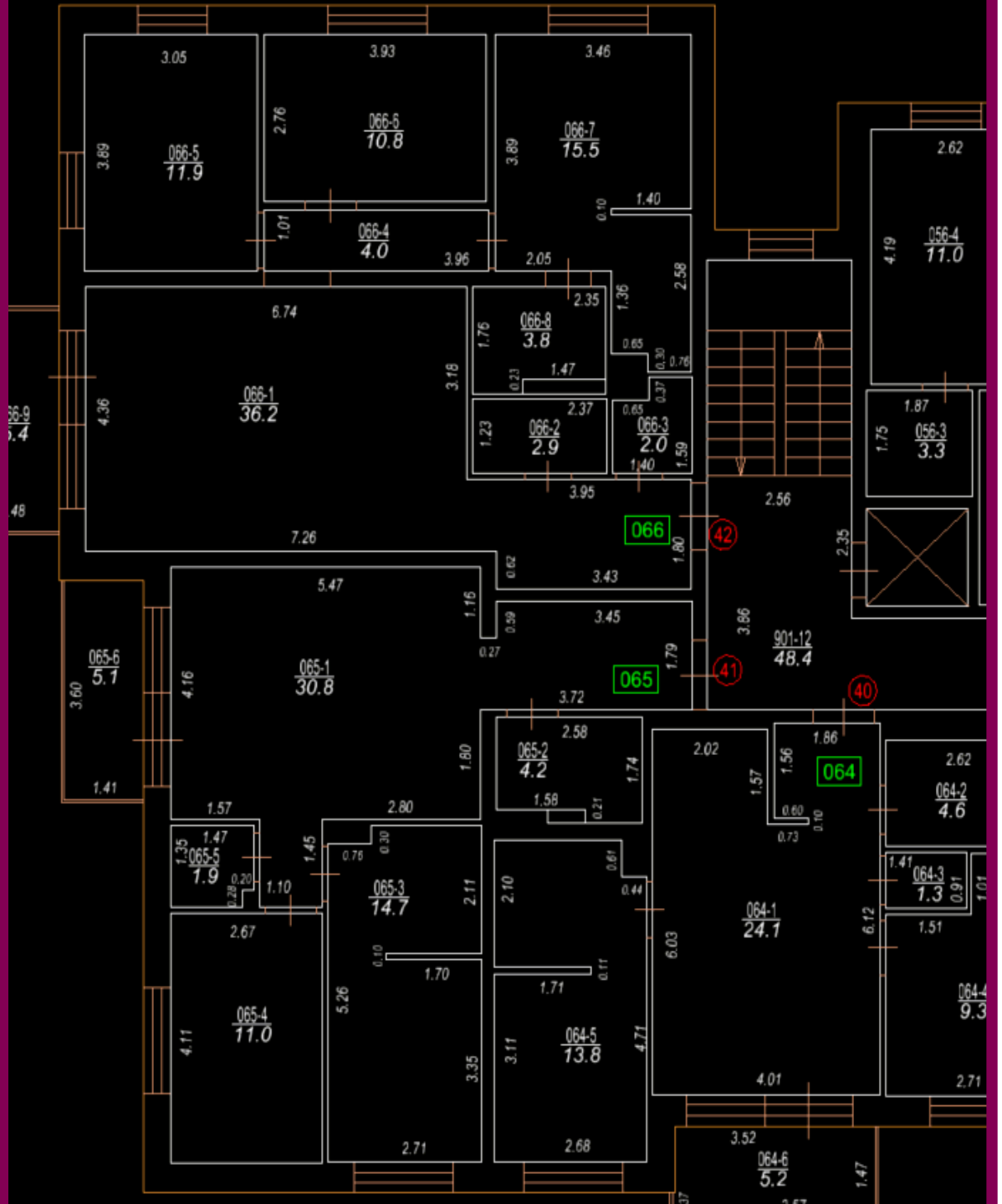
- main purpose of use,
- deterioration of structural elements,
- material,
- distribution of areas (residential/non residential groups of premises) etc.

## For groups of premises

- the purpose of use,
- the name of the group of premises,
- the size of the area (including each apartment) etc.

## The cadastral value for each cadastral object

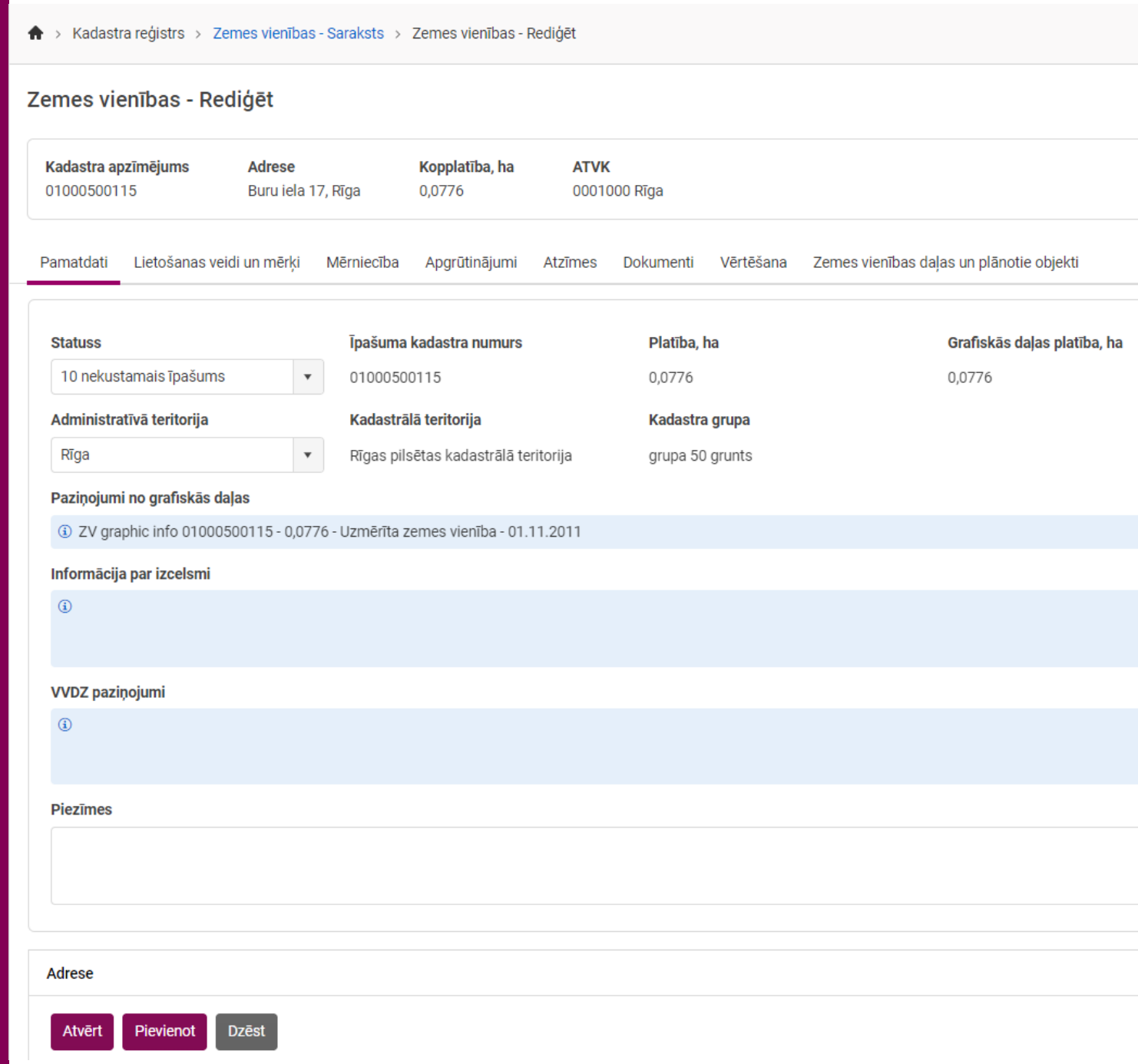
- land parcels,
- buildings,
- groups of premises (apartments),
- real Estate

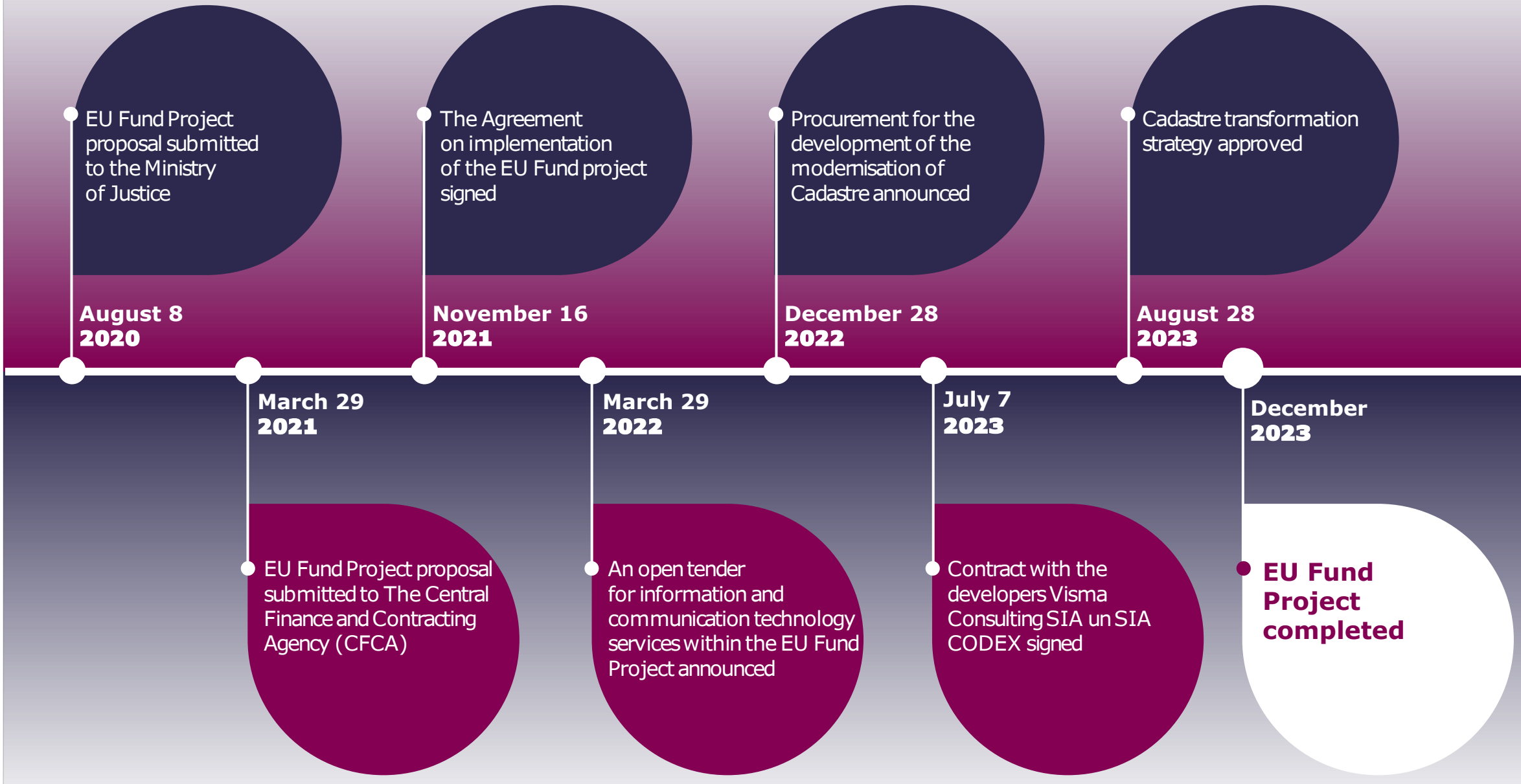



# Spatial data of cadastre

- Land parcels
- Buildings
- Encumbrances i.E. Servitudes
- Internal layouts of buildings i.E. Floor plans.
  Digitally produced since 2007

# KADIS
## the new Cadastre




August 8
2020
EU Fund Project proposal submitted to the Ministry of Justice
March 29
2021
EU Fund Project proposal submitted to The Central Finance and Contracting Agency (CFCA)
November 16
2021
The Agreement on implementation of the EU Fund project signed
March 29
2022
An open tender for information and communication technology services within the EU Fund Project announced
December 28
2022
Procurement for the development of the modernisation of Cadastre announced
July 7
2023
Contract with the developers Visma Consulting SIA un SIA CODEX signed
August 28
2023
Cadastre transformation strategy approved
December
2023
EU Fund Project completed

# Achievements

## Land parcels and parts of land parcels

- Registration and updates → 4 processes

## The map

- Spatial data (of cadastral objects) migration

## The workflow

- Integrating the workflows of our processes

## Data distribution network (DDN)

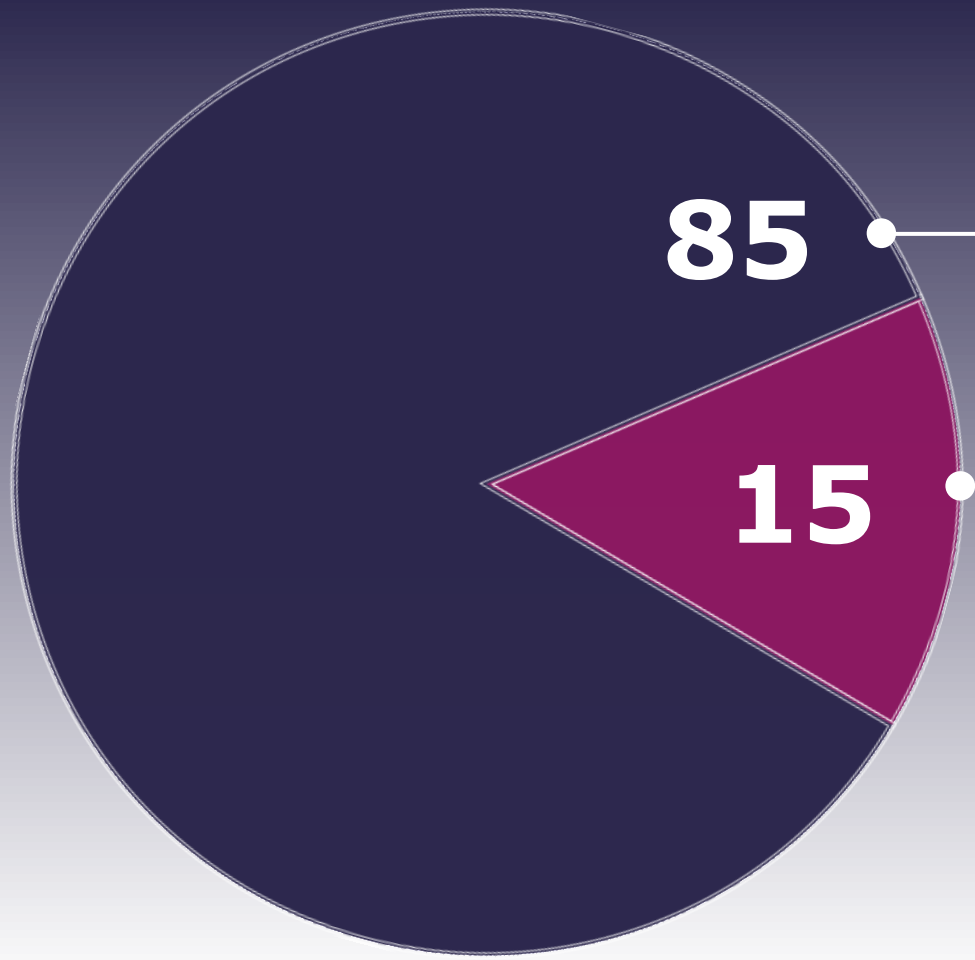
- Cadastral data distribution in the DDN

## Cadastral values

- Data preparation for mass valuation

# The budget

- To mitigate the risks, we have waived **1 million € in 2023**
- **Total project cost** **2 899 500,00 €**




European Regional Development Fund (ERDF)

State budget

# KADIS project achievements

| Improved operational processes | Data migration to the State Cloud infrastructure solution | Improved data exchange between Cadastre and other IS |
|---|---|---|
| 8 | 1 | 3 |

| New e-service created | Datasets available on the Open Data Portal |
|---|---|
| 1 | 10 |

# KATE

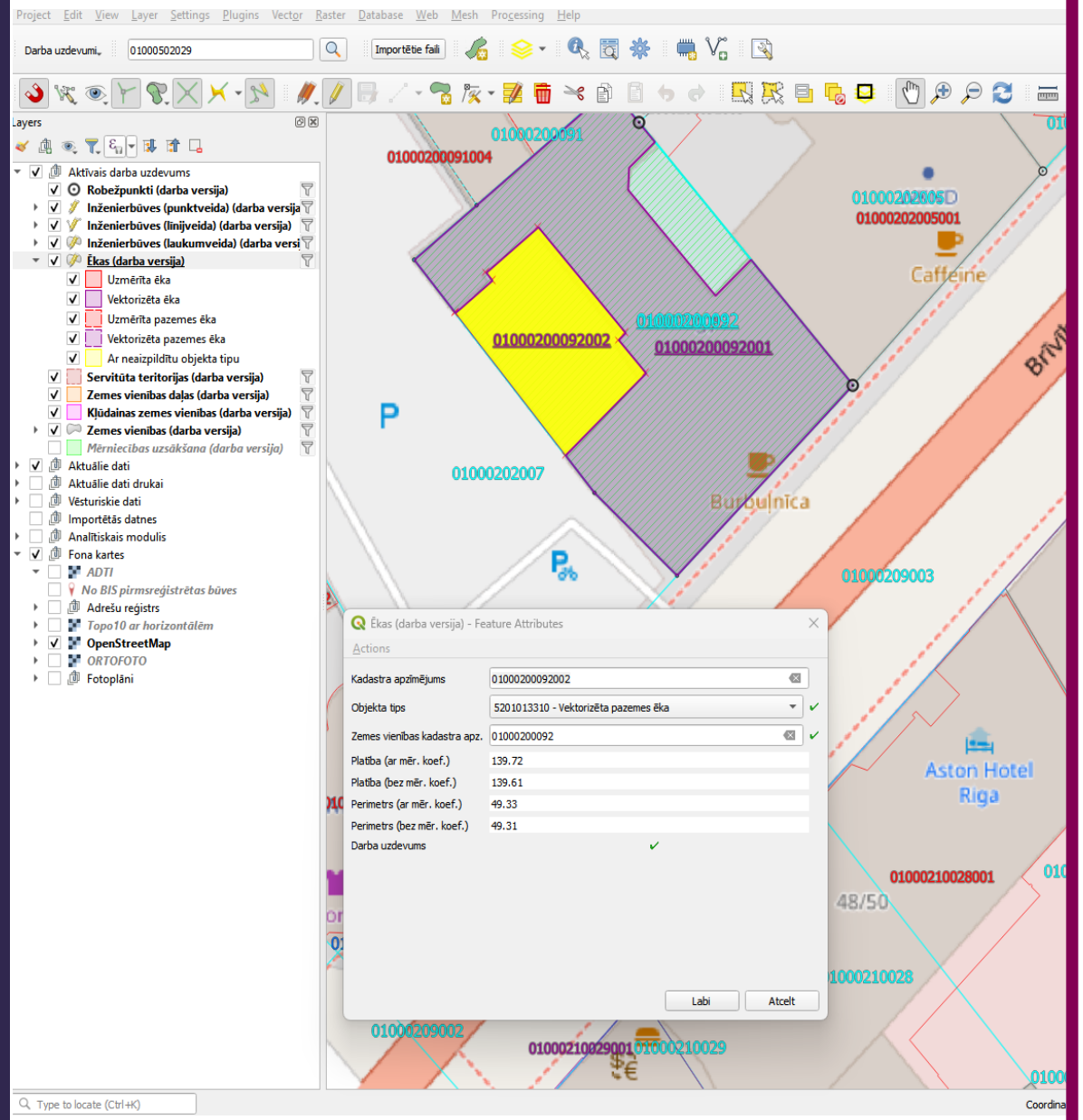
## a new technological solution for cadastral map

- 5 months from idea to result!
- Technological solution based on PostgreSQL PostGIS database
- Working environment designed in QGIS v3.34 software

*For the previous KRIS GP solution Bentley MicroStation V8.1. was used and platform was based on Oracle database 10g*

# Benefits of KATE

- Significant financial benefits by waiving licence costs
- The possibility to use the latest and most up-to-date technology
- A communication site made in a Webex environment where data operators communicate with each other, exchange knowledge and receive immediate support from IT support staff
- OGC standard implemented




# Technical improvements

- Data specification changed
- Data storage fully centralised now
- Separation of the working database from the underlying database
- More complete topological data validation introduced
- Improved ability to store and view historical data
- A number of new validations have been developed, both in the database and in the working environment
- Various raster and vector backgrounds available in QGIS formats can be connected to the working environment

# Challenge

Inclusion of **the Address Register** data and data of **the Restricted Territory Information system** in the same technical solution which is used for the Cadastral map.

# .. anather challenge

Development and design of a new online portal for our data and services

# Cadastre in your pocket

## www.kadastrs.lv

### Self service portal

- Working place, services, accessibility – primarily without involvement of the SLS

### User oriented

- Meets the needs of modern society, user friendly

### Simplicity in design

- Easily understandable, well structured, intuitive and functional

### Modern and safe

- Meets modern technology and security requirements, interoperable and easy to administer

# The roadmap for the portal development

**MARCH–APRIL**

- Summary of customer and partner needs (opinion polls)
- Work on the Conceptional vision
- Key requirement proposals

**MAY–JUNE**

- Brainstorming within SLS
- Summary of key requirement proposals
- Presentation of the conceptual vision

**JULY–SEPTEMBER**

- Discussion with customers and partners
- Final version of the conceptual vision

**OCTOBER–DECEMBER**

- Specification and requirements fully set
- Start of the development phase which will continue in 2025

## Follow us

## Have a look

**www.vzd.gov.lv**

**www.kadastrs.lv**

# Any questions?

# Thank you!

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