

# Data a služby ČÚZK

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# What's to come

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- Cadastre related source information systems
  - ISKN – the Czech cadastre information system
  - RÚIAN – basic registry of territorial identification, addresses and real estates
- INSPIRE implementation
  - Publication database
  - Viewing and download services overview
  - Experience with the operational run

# ISKN – the Czech Information System of Cadastre of Real Estates

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- Digitization
  - Written part has been fully digitized since 1998,
  - Cadastral maps are still being digitized (74% accomplished)
- In 2001 a new Information System of Cadastre of Real Estates (ISKN) has been launched.
- Central database on-line linked to Cadastral Workplaces.
- Internet based services with data approx. 2 hours old
  - The Remote Access application (since 2001)
  - Free Viewing Cadastre application (since 2004)
  - INSPIRE related services (since 2008)

# Basic registers – platform for the Czech e-government

- System of basic registers of the Czech public service consists of:
  - Registry of Inhabitants – **ROB** (run by the Ministry of Interior),
  - Registry of Corporations – **ROS** (the Czech Statistical Office),
  - **Registry of Territorial Identification, Addresses and Real Estates – RÚIAN** (the Czech Office for Surveying, Mapping and Cadastre),
  - Registry of Rights and Duties – **RPP** (the Ministry of Interior),
- Information System of Basic Registers – **ISZR** (the Ministry of Interior),
- Information System for Personal Identifiers – **ORG** (The Office for Personal Data Protection) .

# RÚIAN project



EVROPSKÁ UNIE  
EVROPSKÝ FOND PRO REGIONÁLNÍ ROZVOJ  
ŠANCE PRO VÁŠ ROZVOJ

The project of establishing the **Registry of Territorial Identification, Addresses and Real Estates** and modernisation of the **Information System of Cadastre of Real Estates** is co-financed from financial resources of the European Union, European Fund for Regional Development

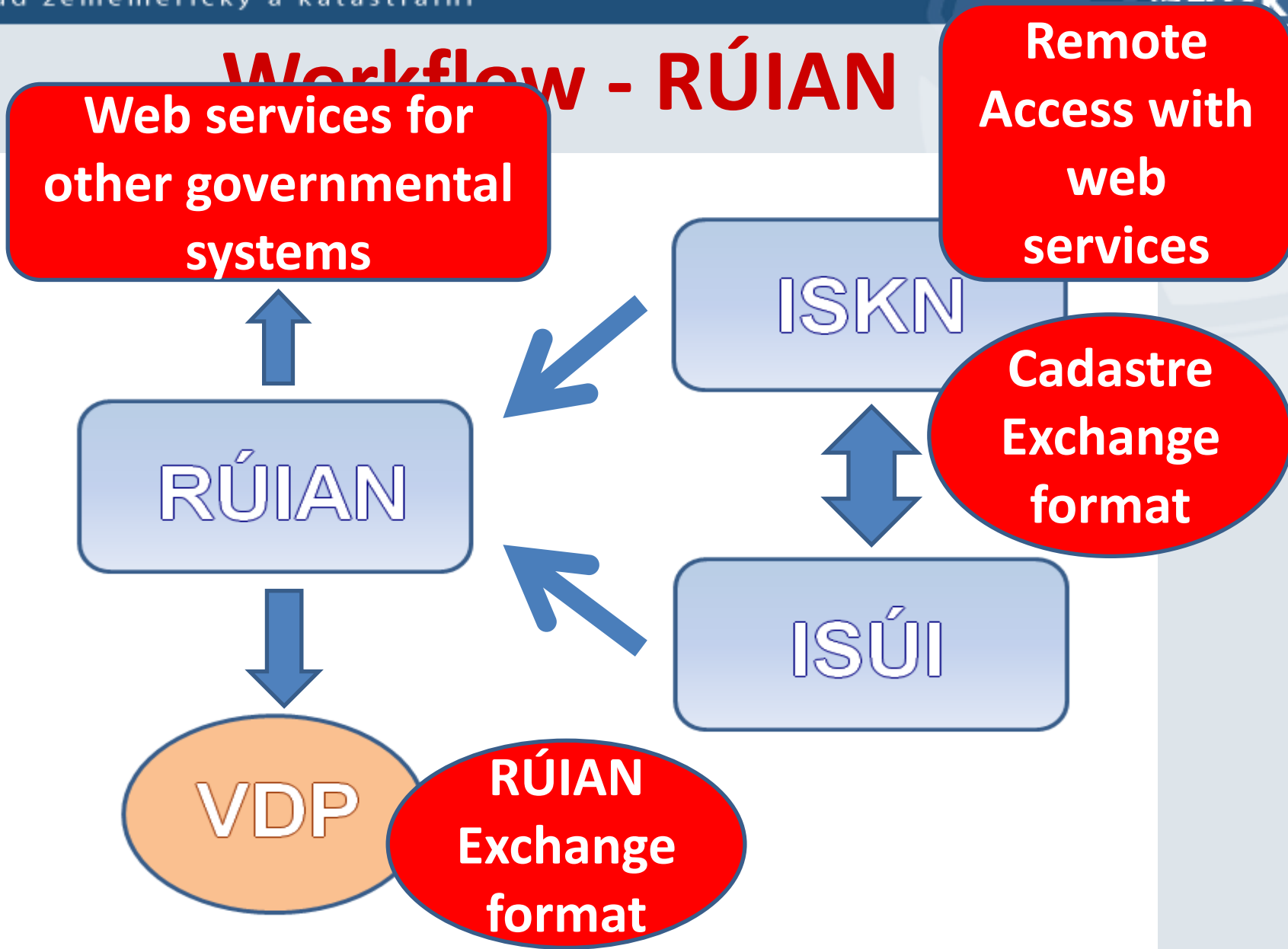
Registration number of the project: **CZ.1.06/1.1.00/03.05893**

# Content of RÚIAN

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- There is no personal data in RÚIAN
- The basic registry RÚIAN contains:
  - Administration units** (country, region, ... , cadastral units, **parcels, buildings**)
  - Entities of land administration (municipality districts, streets, ...)
  - Addresses**
  - Location data (centroids of parcels, buildings, ...)
  - Other data (building features, ...)
- **INSPIRE Cadastral Parcels, Buildings, Addresses and Administrative Units themes represent subset of RÚIAN data**

# Workflow - RÚIAN



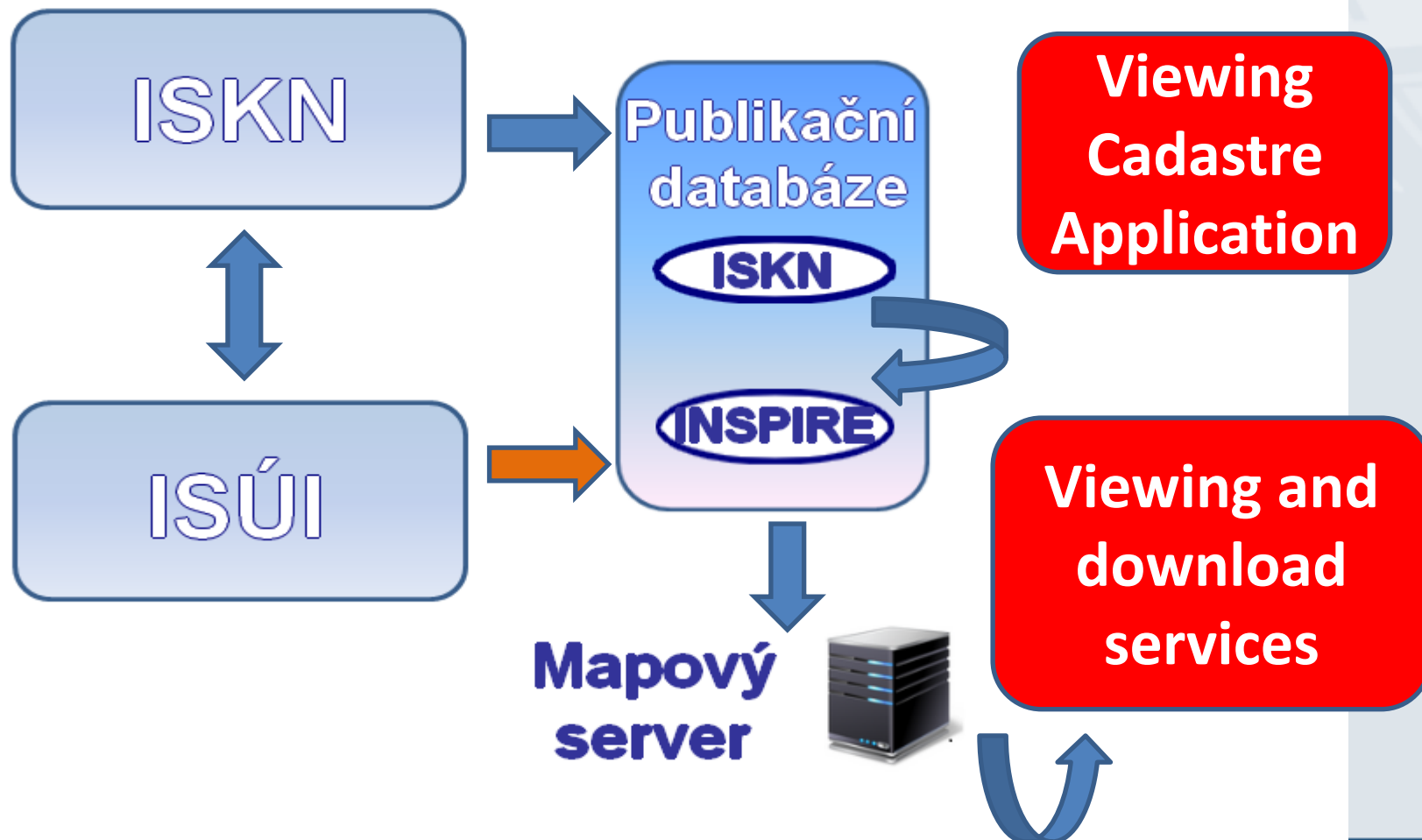
# RÚIAN exchange format

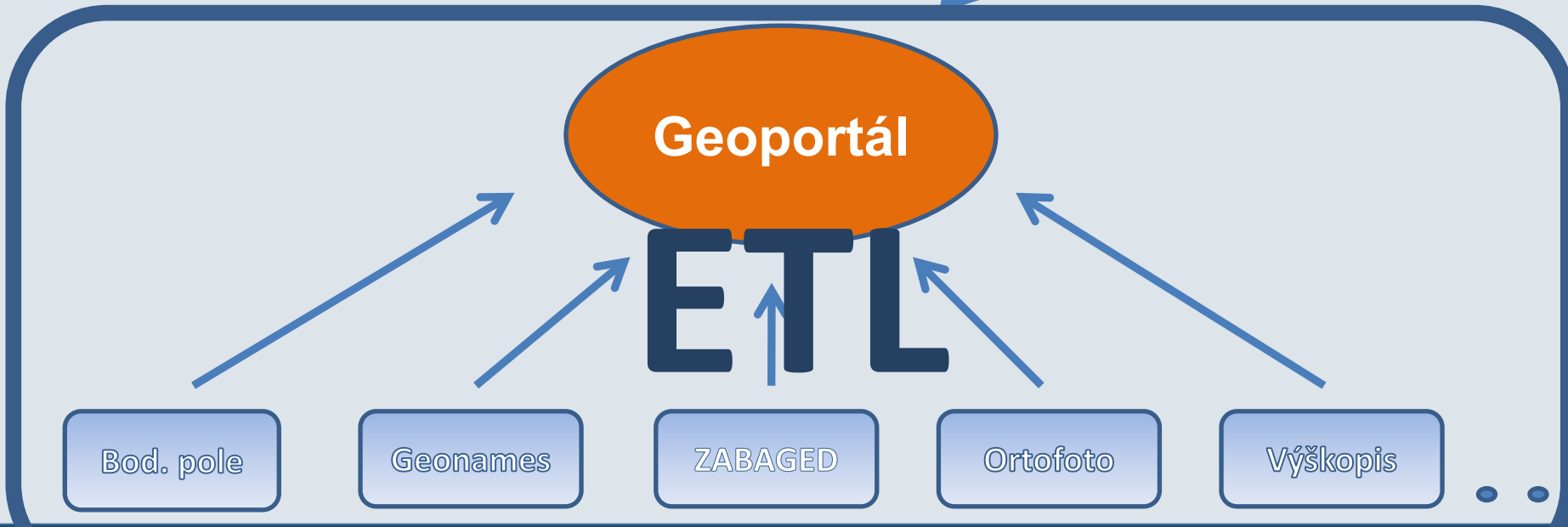
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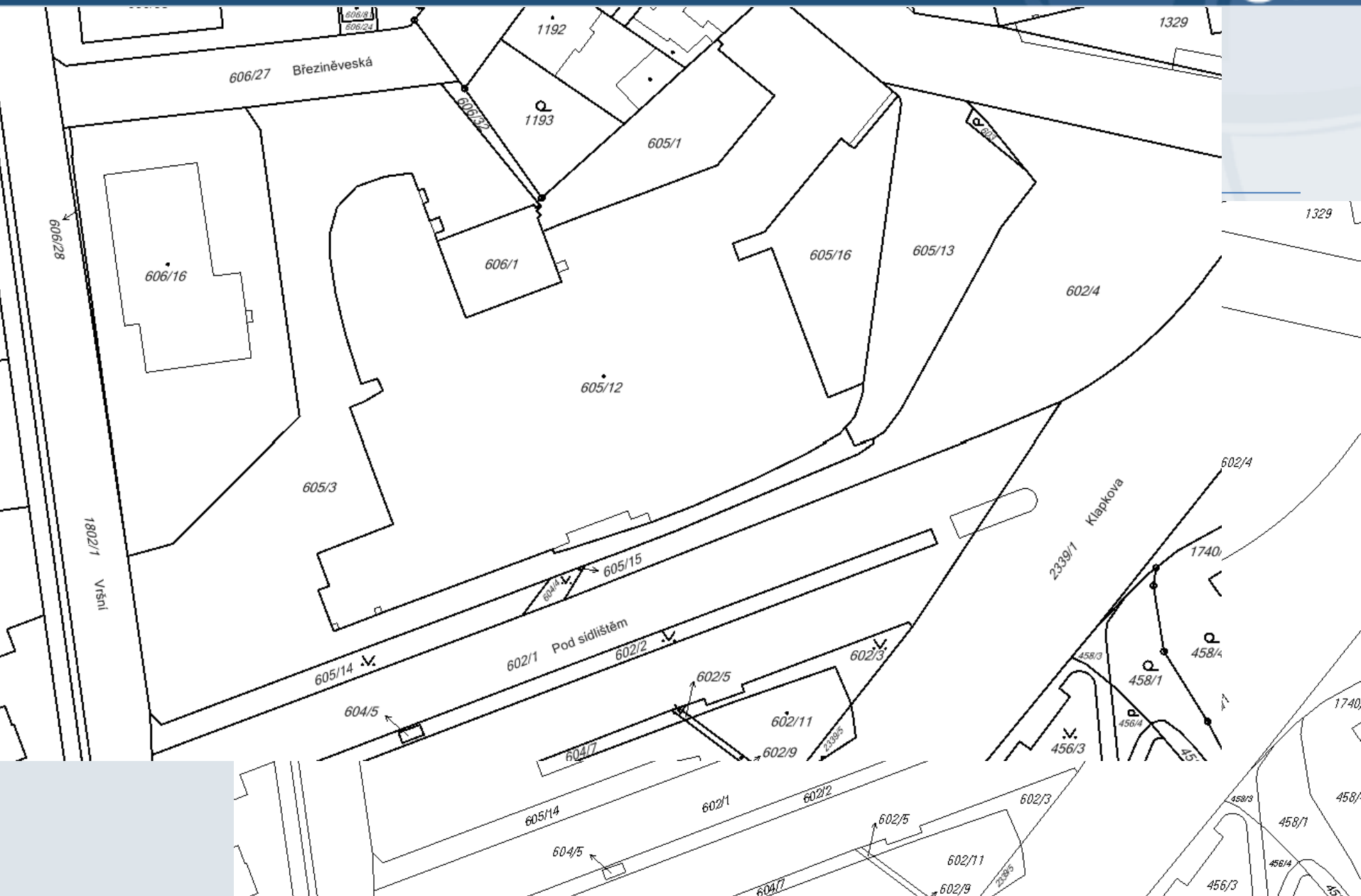
- Text files in GML (3.2.1)/XML (compressed)
- Format „inspired“ by INSPIRE data specification
- 1 file – 1 municipality
- Full data generated once per month
- Changes available every day
- **Available free of charge, no registration required**
- <http://vdp.cuzk.cz/>



# Workflow - INSPIRE







# Download services overview

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- Harmonized services for themes:
  - Cadastral Parcels (June 2012)
  - Addresses (June 2013)
  - Administrative Units (June 2013)
- Available both as WFS and pre-prepared data set
- Supported Stored Queries, unsupported Common filtering in WFS 2.0

## Common features

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- All the services are available free of charge (no registration required)
- On-line services (WMS 1.3, WFS 2.0) with data app. 2 hours old
- Pre-prepared data (GML 3.2.1) sets 24 hours old

## Services in preparation

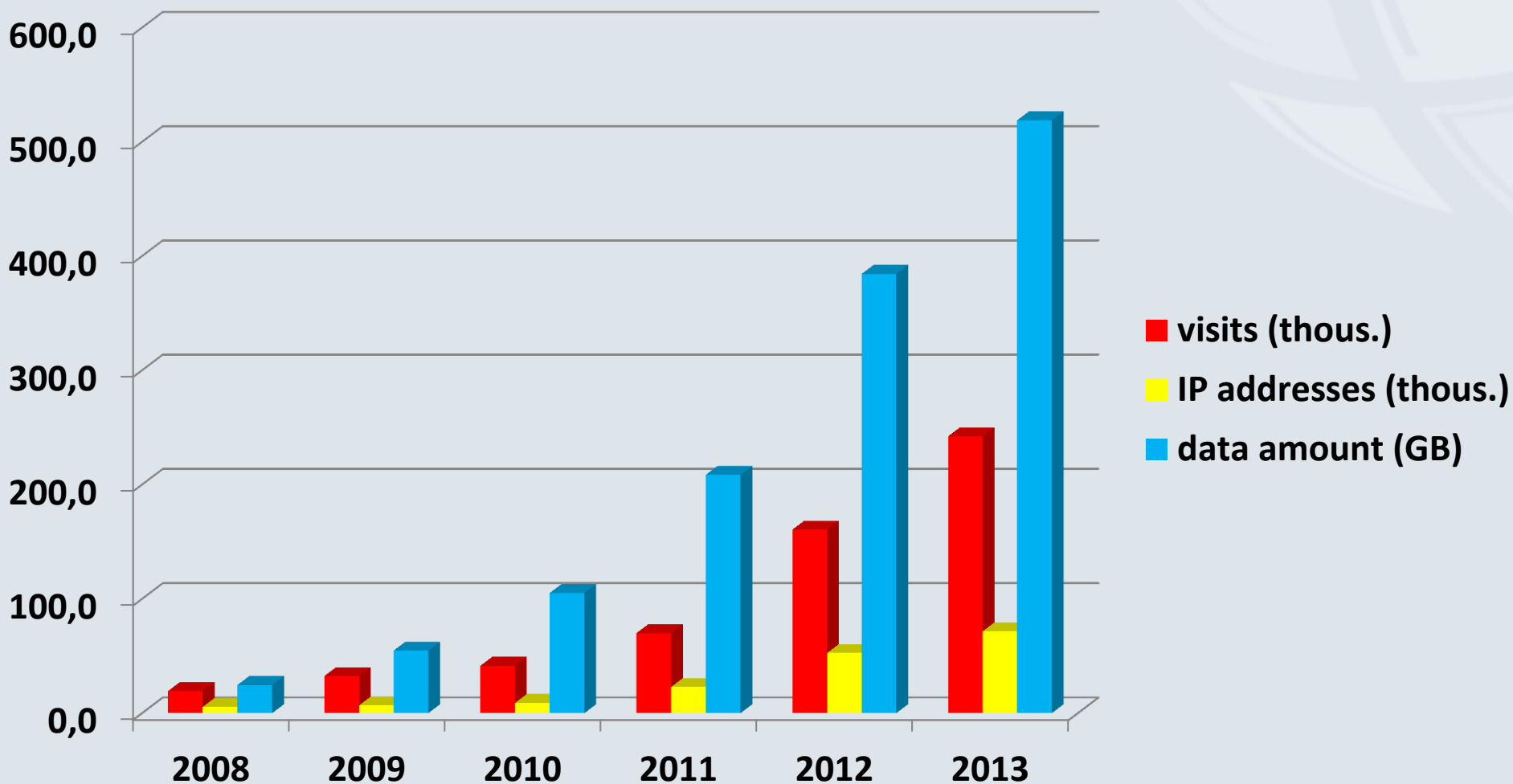
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- Harmonized viewing and download services for „Buildings“ theme
- Download service for the cadastral map (complement to the harmonized „Parcels“ and „Buildings“ download services)

# Experience with the operational run

- Viewing Cadastre – the most frequently visited Czech governmental web page
  - 2.3 mil. visits, 410 thousand unique IP addresses monthly
  - more than 5.3 TB downloaded data amount per month
  - 3 500 parallel users in rush hours
- WMS for cadastral map – extremely growing demands
  - 242 thousand visits, 71 thousand unique IP addresses monthly
  - more than 518 GB downloaded data amount per month
  - 350 parallel users in rush hours

# WMS – average monthly demands per year





# Conclusion

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- Data and services related to RÚIAN are provided for free
- Information is up-to-date (several hours old)
- Demand on existing services is rapidly growing
- Further development is expected in the frame of GeoInfoStrategy and INSPIRE implementation

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**Thank you for your attention**

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