

Digital Technical Map - Part of the IS of Digital Map of Public Administration

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Agenda

- Introduction
- Digital technical maps (DTM) – content, use, architecture
- IS of the digital map of the public administration (IS DMVS)
- Digital map of public administration (DMVS)
- State of play of the project-implementation
- *Future data provision*

Introduction

- ČÚZK – is a supreme office responsible for cadastre and land surveying in the state interest- provides spatial data for wide range of users
- Cooperates with many ministries, offices, local administration bodies, private sector
- ČÚZK is one of the best digitized bodies in the state administration of the Czech Republic

Introduction

- Project is financed from the IROP and supported by the Ministry of Local Development CR
- ČÚZK is responsible for creation of the IS of the digital map of public administration
 - as an umbrella for regional systems of digital technical maps
 - ensuring the central services for the users

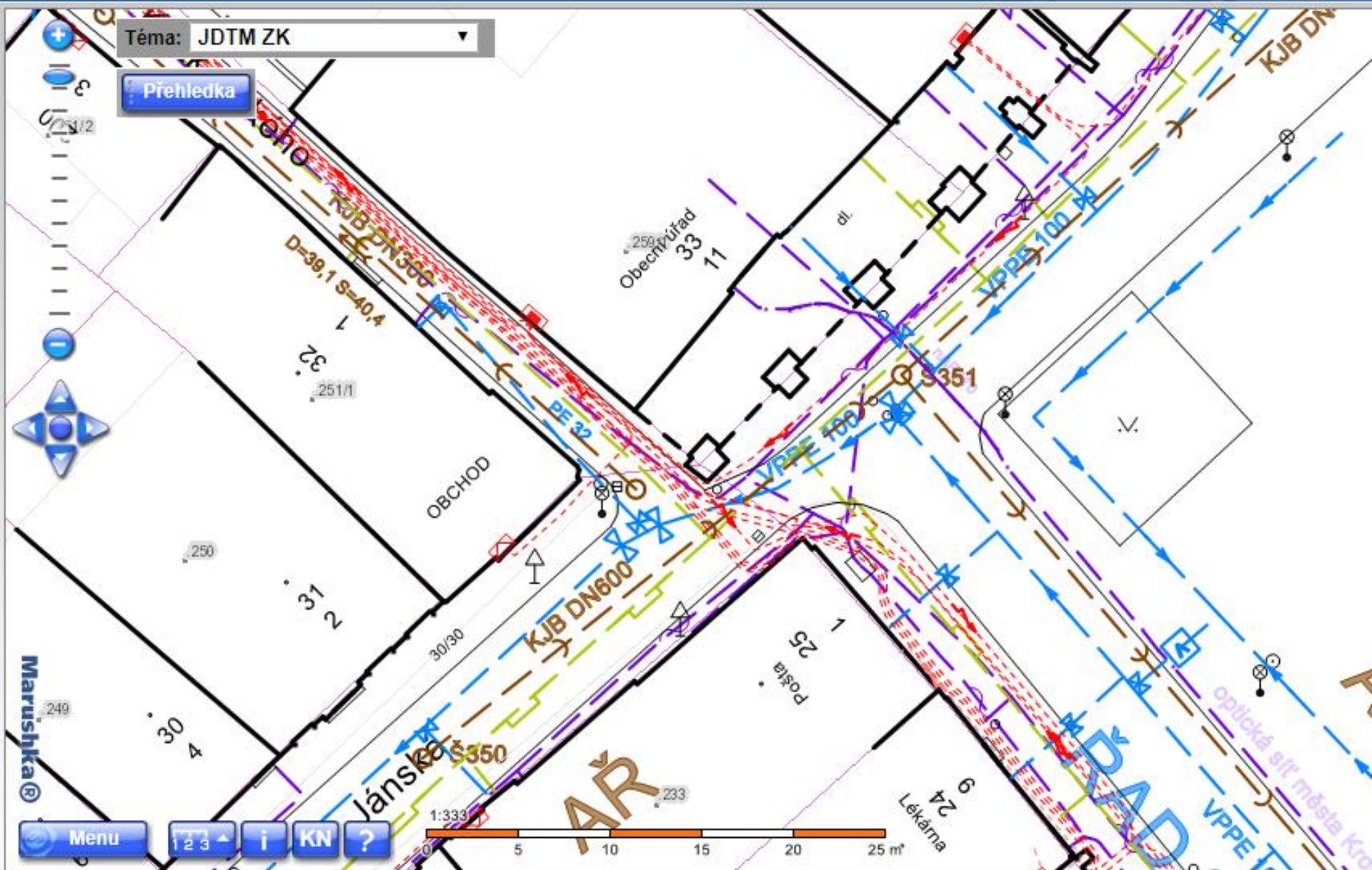
DTM content

Detailed spatial and descriptive information about location, shape and characters of

- **Constructions**
 - buildings
 - utilities – including data about owner/administrator/operator
- **Some natural objects**
 - decorative greenery
 - hydrology

Use of DTM

- Construction proceedings and spatial planning
- Design and investment preparation of buildings
- Property management
 - Public property (state, regions and municipalities are also owners of technical infrastructure -TI)
 - Technical and transport infrastructure networks (owners, operators)
- Infrastructure development including high-speed networks
- Information source for spatial planning documents



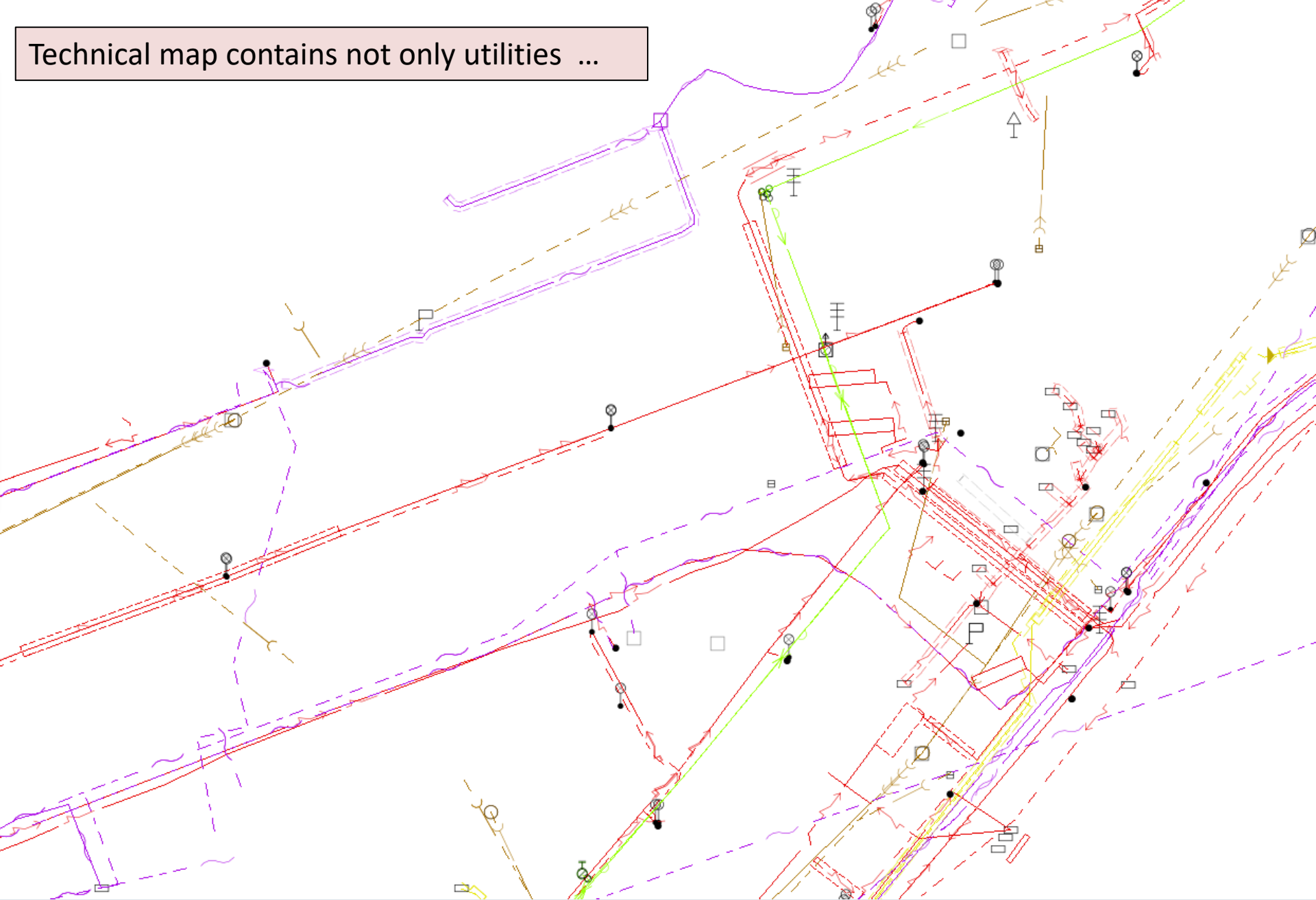
Digital Technical Map of Region

- Introduced by the Act No 47/2020 Coll., on Land Surveying - amendment
- DTM administrators are regions (14 in the CR)
- Information about its content is given in the Decree on Digital technical map No.393/2020, issued by the CUZK
- Different updating regime for two data groups

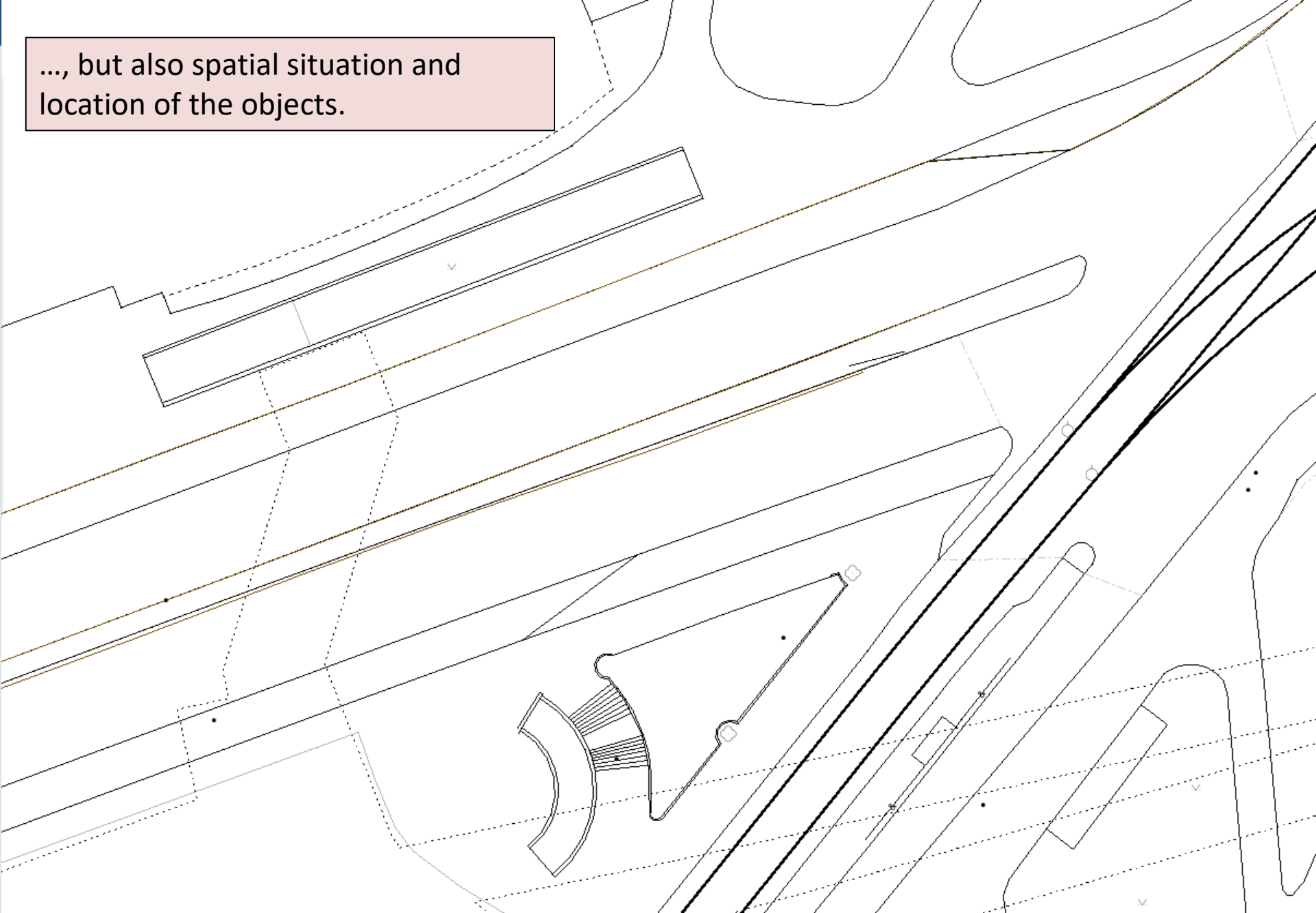
DTM of Region – Data Groups

1. **Object and equipment of transport and technical infrastructure** – directly updated by owner/operator/administrator of particular infrastructure
2. **Basic spatial situation** – defined by the law as selected construction and technical objects and equipment and selected natural objects on the earth's surface, below or above it, which characterize the basic spatial arrangement of the territory – update by the region

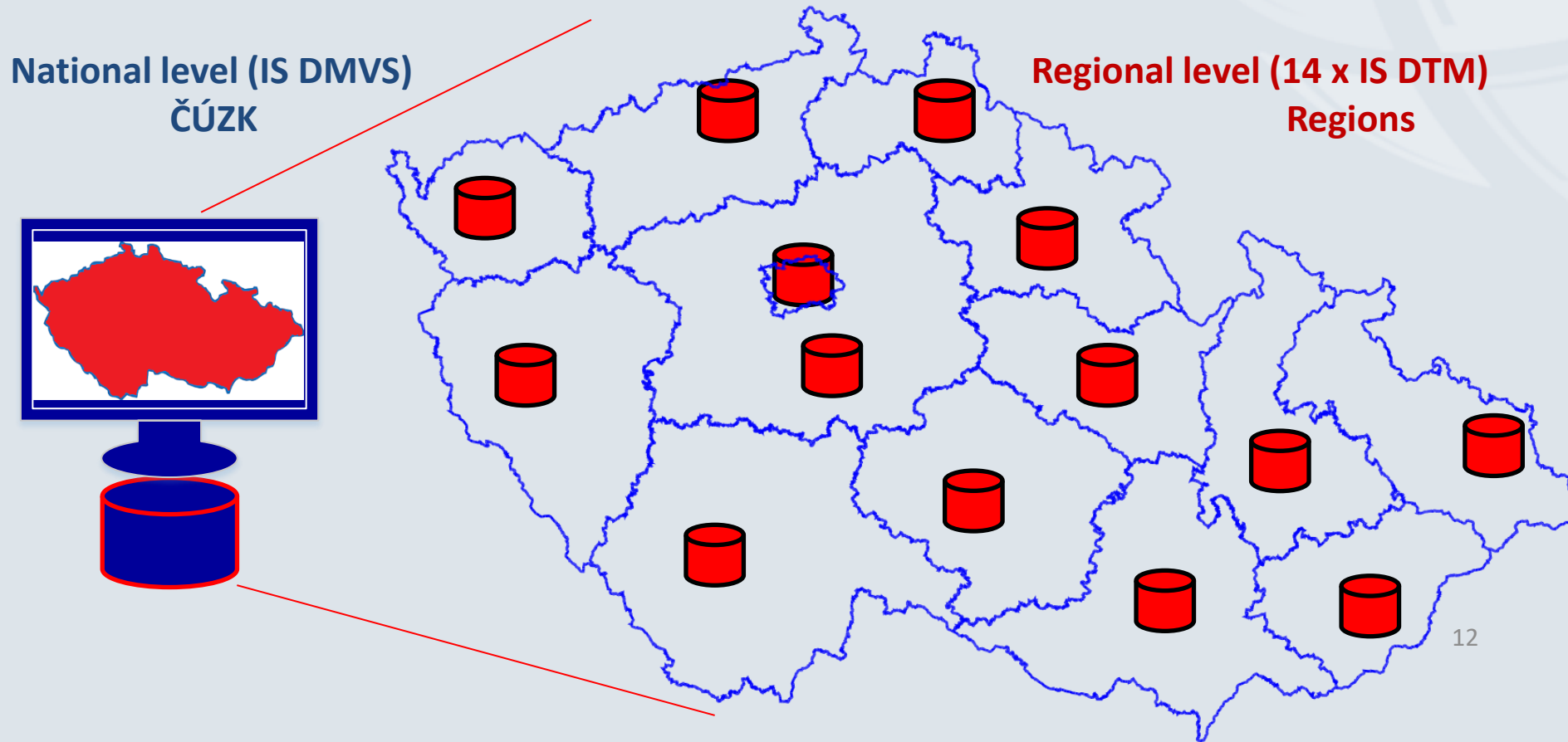
Technical map contains not only utilities ...



..., but also spatial situation and location of the objects.



Solution of Architecture of Digital Technical Maps

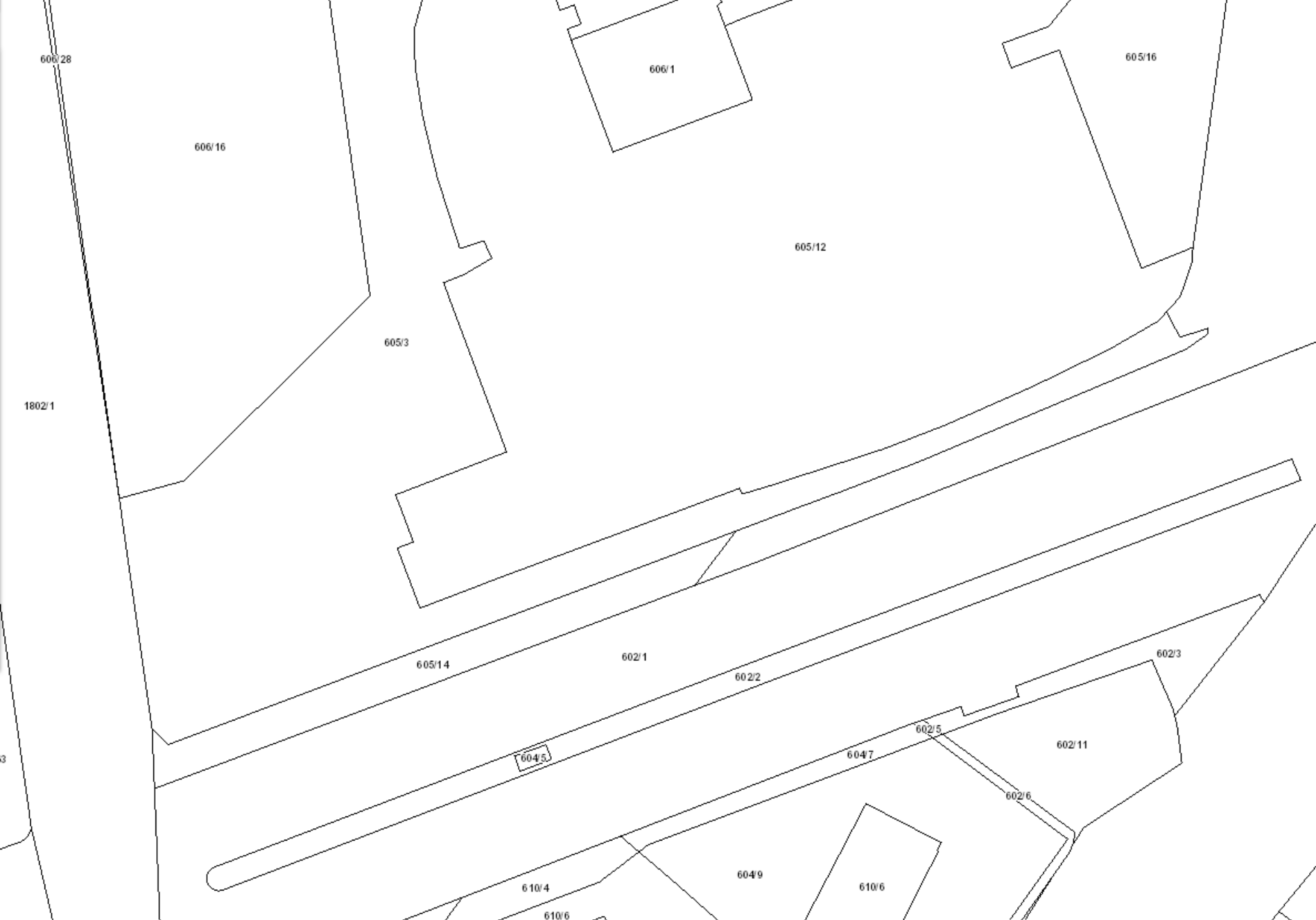


IS of the Digital Map of the Public Administration

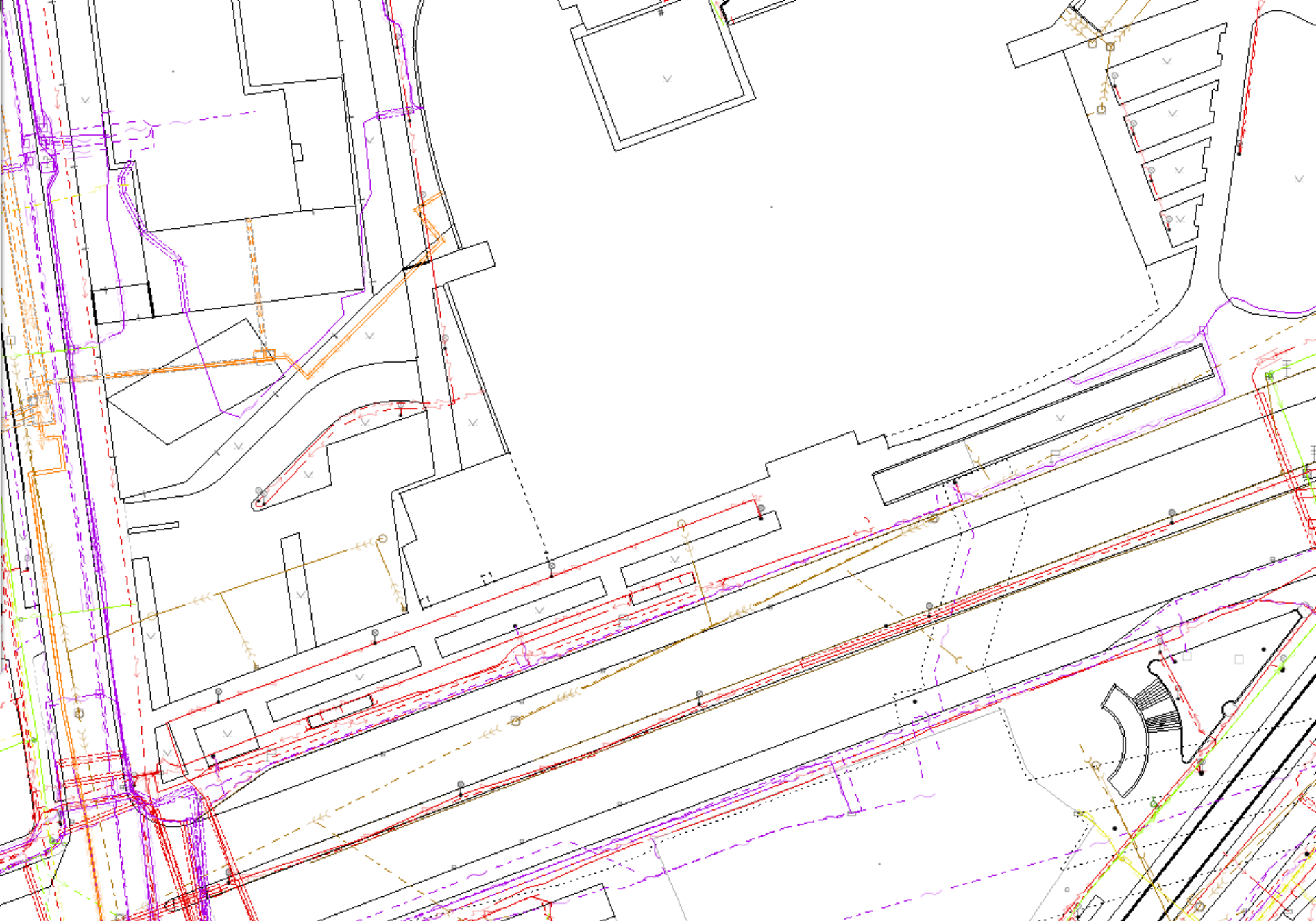
- Administrator of the IS DMVS is going to be ČÚZK
- IS DMVS functions are
 - Uniform interface for cadastral map, orthophoto and DTM of regions
 - Uniform interface for data transfer for updating DTM of regions
 - Keeping the list of owners, operators and administrators of technical and transport infrastructure including their territorial scope
 - Keeping the list of editors of DTM of regions

Digital Map of the Public Administration

- DMVS contains three levels
 - Cadastral map (ČÚZK)
 - Orthofoto (ČÚZK)
 - Technical map (regions)









State of Play in Regions

- All 14 regions have the projects approved, but there are big differences in access to the project because of significantly different „starting line“
- The regions are gradually preparing the public tenders for
 - Data acquisition and its control
 - Project administration
 - IS of DTM
- 6 regions have already functioning DTM

State of Play in ČÚZK

- Public tender on IS DMVS construction
 - Contract signed in October 2021 – construction in operation
- LMS with pixel size 12,5 cm
 - 2021 nearly completed
 - Contracts for 2022 signed
- HW of ČÚZK central infrastructure
 - New processors acquired
 - Completed in June 2022
- *Pilot operation of IS DMVS on 1.1.2023*

Data Provision

- *IS DMVS will after its finishing provide the data not only to authorized subjects, but also to the public in following ways:*
 - *Viewing data via Geoportal*
 - *Downloading of pre-prepared datasets in the special DTM format*
 - *Downloading of areal data on request*

Thank you for your attention.