

Data transformation – Addresses

according to INSPIRE



Ing. Michal Med

ČÚZK

April 17, 2015

1 Introduction

2 Database

3 Transformation

4 Data and services

About data and services

- INSPIRE harmonised data and download and view service were set up on 29th September 2013



- GML 3.2.1
- WMS 1.3.0 and 1.1.1
- WFS 2.0.0

INSPIRE compatibility

- Data are compatible to DS Addresses 3.0
- Versions 3.0 × 3.1 (17th April 2014)



BUT

- There is no difference in data content and structure in Addresses

Basic registers

- Law about basic registers → 111/2009



- register of population,
- register of legal entities
- **register of territorial identification, addresses and real estates – RÚIAN,**
- register of rights and obligations.

RÚIAN project



Project of establishing the Registry of **Territorial Identification, Addresses and Real Estates** and modernisation of the **Information System of Cadastre of Real Estates** is cofinanced from financial resources of European Union, European Fund for Regional Development.

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

RÚIAN × ISÚI

- RÚIAN – contains **address points**, *post offices, municipalities and its parts, buildings, streets and thoroughfares, electoral districts, administrative units and borders in the **current state***
- public list → everybody can see and download for free



- ISÚI – information system of terrestrial identification



– source database, contains history

Address point

Adresní místo - detail

Kód: 23377470

Obec: [České Budějovice \(okres České Budějovice\)](#)

Informace k datu

Část obce: [České Budějovice 3](#)

Zobrazit v mapě

Městská část/obvod:

Ulice: [Plzeňská](#)

PSČ: 37004

Volební okrsek: [11](#)

Přejít na:

Přejít

Číslo popisné nebo
evidenční / orientační: 2166/48

Adresa dle vyhlášky č. 359/2011 Sb.

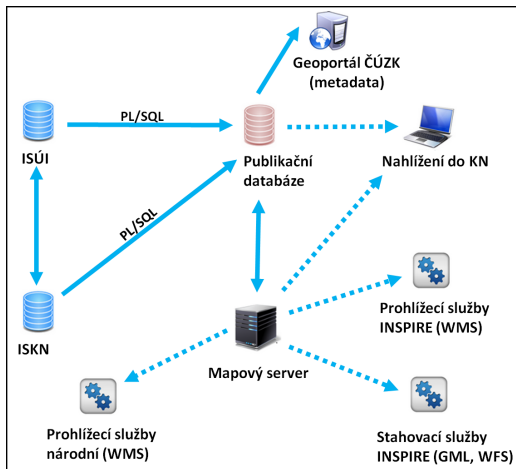
Řádek 1: Plzeňská 2166/48

Řádek 2: České Budějovice 3

Řádek 3: 37004 České Budějovice

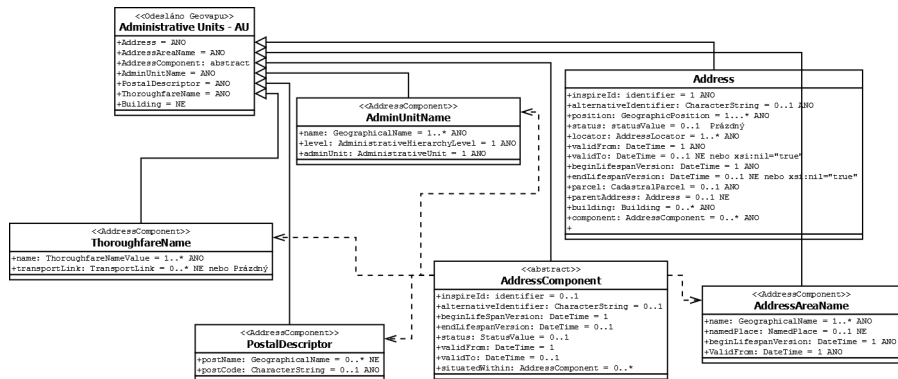
Definiční bod Y: 756505,23 X: 1164130,19

Transformation process



Zdroj: Ing. Jiří Formánek

Usage schemas



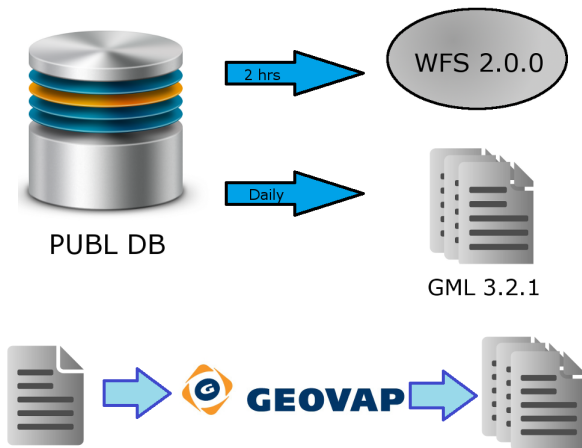
PUBL → VIEW



■ Publication database

- created for purposes of INSPIRE, but is used for other purposes as well
- data are about two hours old
- **views** for every purpose

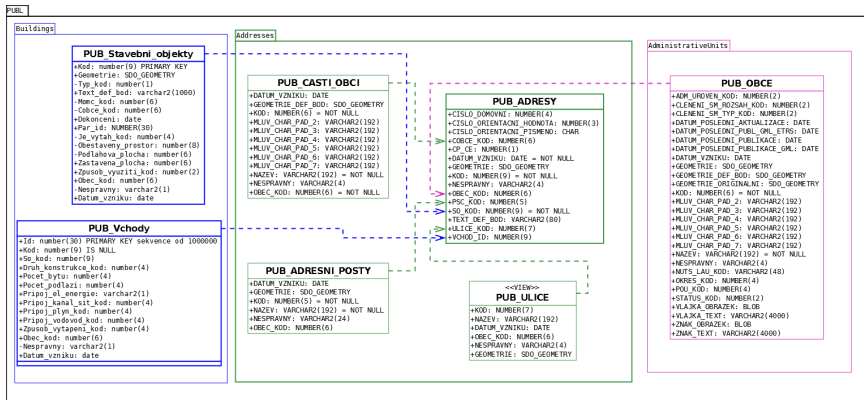
VIEW → GML



Transformation schemas × Matching tables

- Database attributes have to be attached to INSPIRE features:
- **Matching tables**
 - xls tables
 - two dimensional
- **Transformation schemas**
 - graphic diagram based on UML
 - can contain more information about more sources and can visualize complications and problems

Publication database tables used for addresses

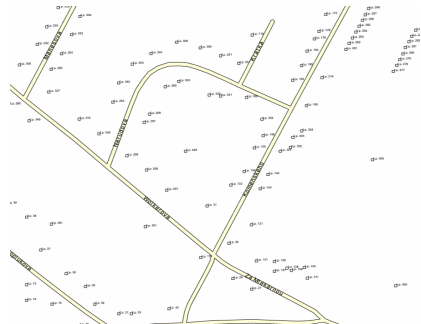


INSPIRE Data Specifications



- INSPIRE Data specifications and Technical Guidelines
- View Services – 3.11
- Download Services – 3.1
- we don't comply to all requirements, but in a recent year we are innovating a lot – filters (except *during*), POST requests...

- Addresses content is really simple
- address points don't provide much information



Thanks for your attention

