

ASSOCIATION OF NETWORK ADMINISTRATORS PAST - CURRENT STATUS



„In the 1992-1993 was established in the eastern Bohemia probably the first association of network administrators in the Czech republic. It was established out of necessity, but it was really necessary ... Geodesists usually processed for utility companies graphical data of topographic situations in the field which can be easy combined with important elements of the electric/gas/telco networks. By combining these two data sources its possible to provide easy QA process and protect IT systems against mistakes. "Said the director of Geovap Ivo Vodehnal.

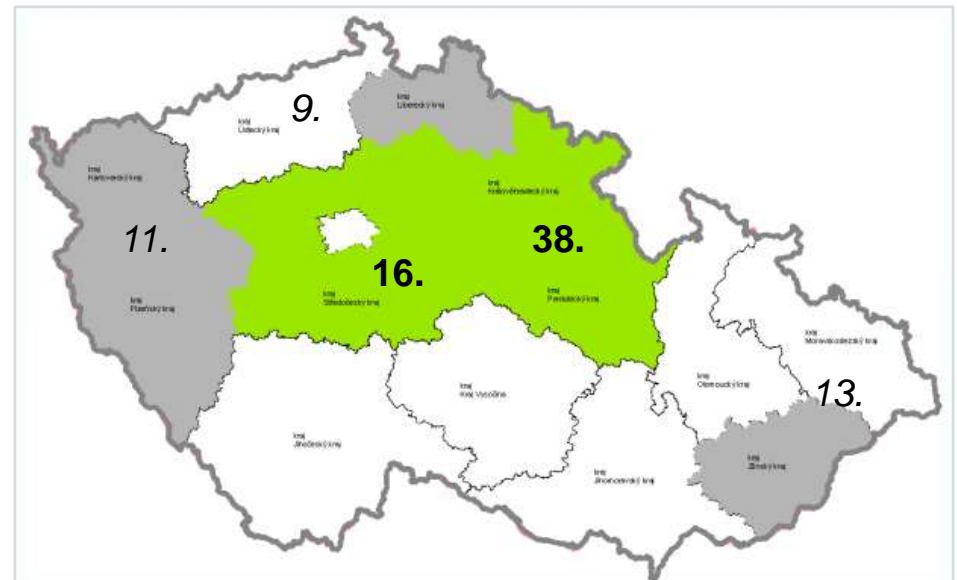
Source: Land Surveyor No. 7 +8 / 1997

The association was formed in the absence of large scale maps with a quality suitable for data acquisition and management of engineering networks

The agreement on the joint creation of map series was called Unified Digital Technical Maps.

With the following key assumptions:

- A unified data model
- The reference map work
- Capability to share data
- high accuracy
- Cost sharing between owners
- Cost savings for multiple geodetic survey
- Ensured the process of acquiring and updating data
- Detection and elimination of errors



Association of network administrators in Central Bohemia
Association of network administrators East Bohemia

Agreements with regional authorities

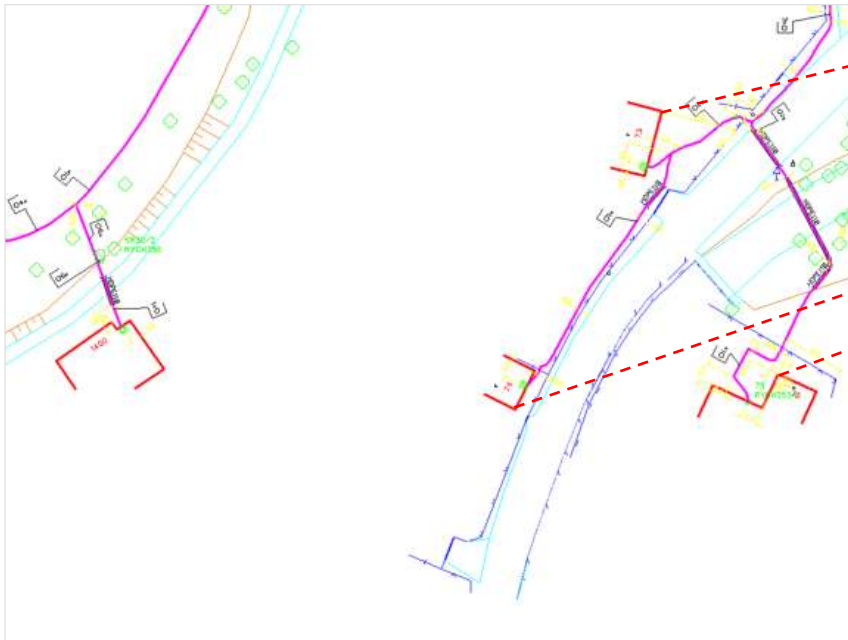
DIGITAL TECHNICAL MAP

IMPACT THE ABSENCE OF LARGE SCALE MAPS

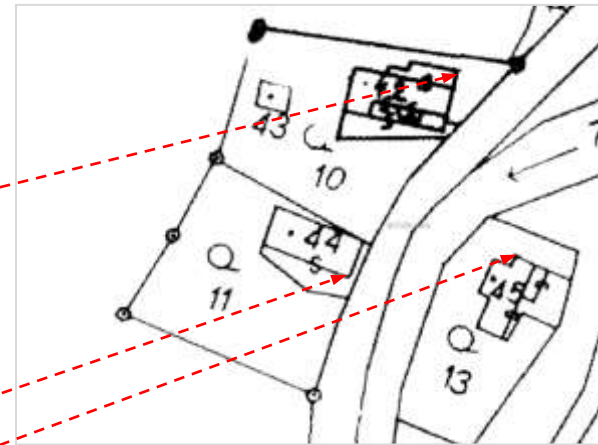


Unified Digital Technical Map (UDTM)

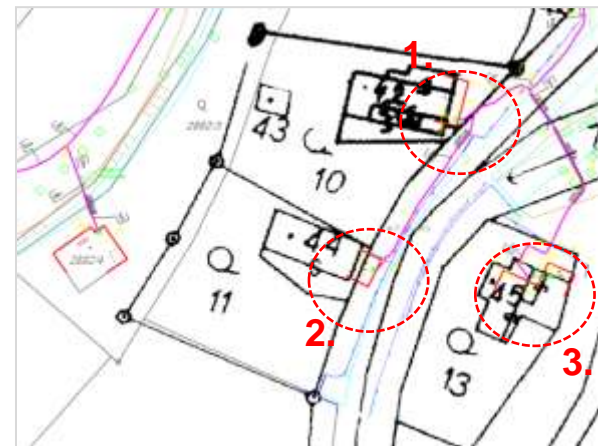
- A similar format like paper technical maps used in utilities for 100 years ...
- Represent the real status of topographic situation in the field



Cadastral maps



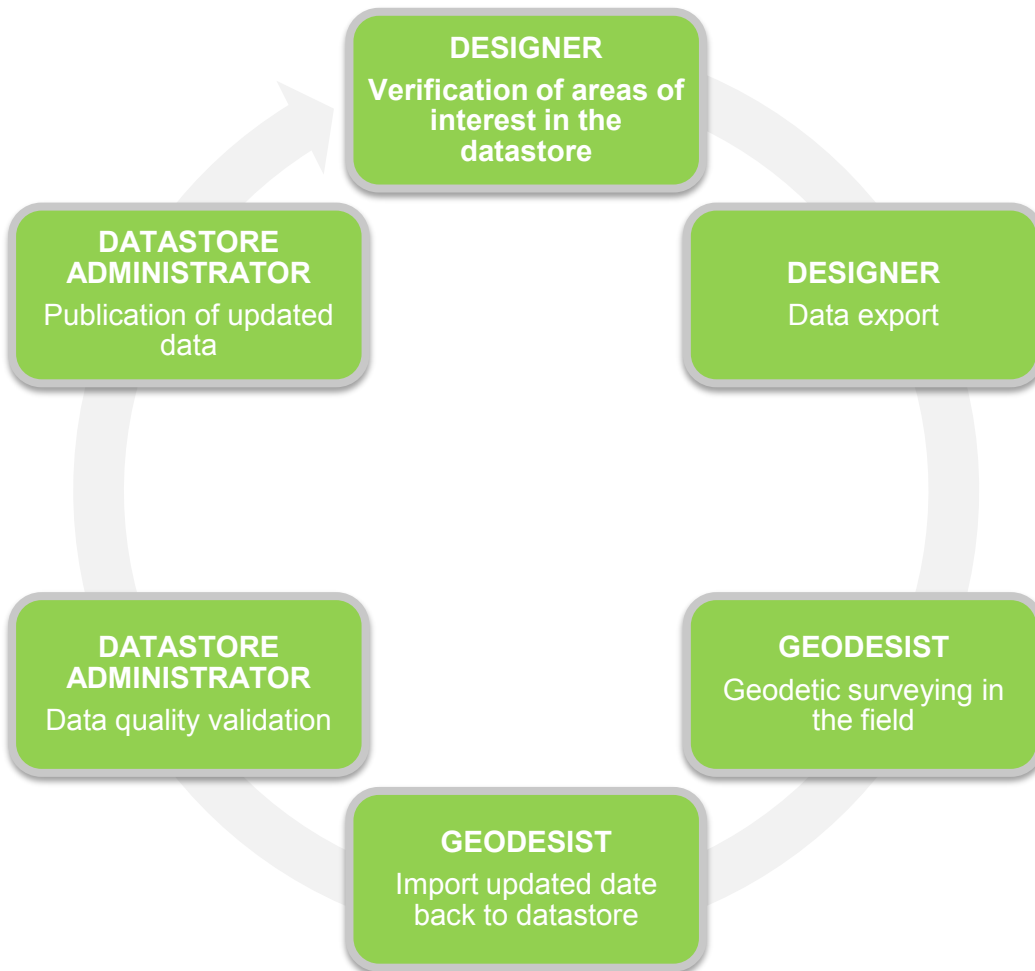
Comparison between cadastral maps and UDTM



The third picture shows the inaccuracy of cadastral maps in the order of meters

GEODATA STORAGE

DATA MAINTENANCE IN THE DATASTORE - WORKFLOW EXAMPLE



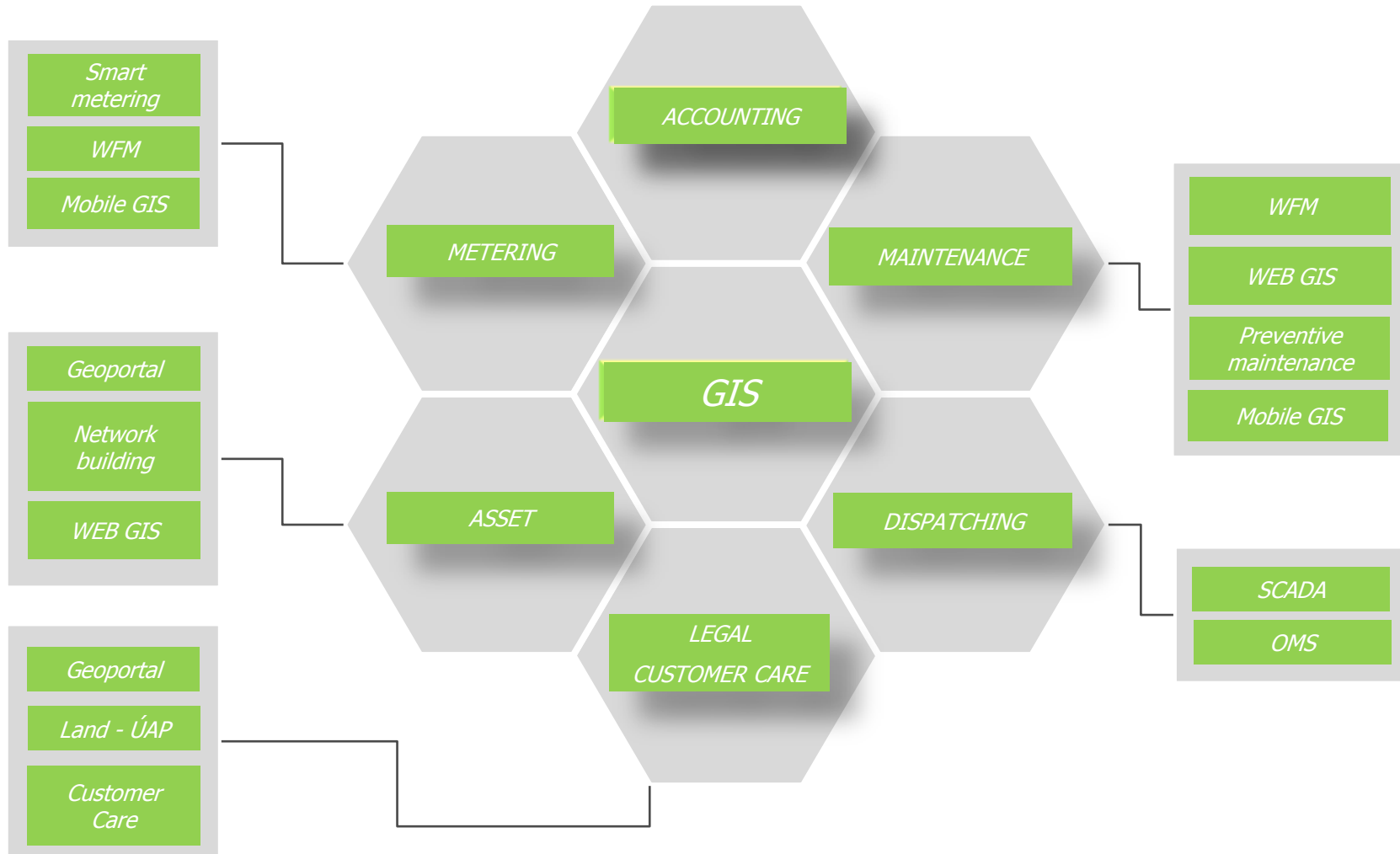
DATA ERRORS - GEODESISTS

CHYBOVOST		
Errors	Contract	%
2	3	66.67%
2	4	50.00%
110	382	28.80%
20	74	27.03%
14	52	26.92%
4	21	19.05%
14	92	15.22%
3	20	15.00%
1	7	14.29%
12	87	13.79%
11	80	13.75%
4	30	13.33%
8	62	12.90%
25	196	12.76%
1	8	12.50%
3	29	10.34%
3	34	8.82%
1	17	5.88%
14	266	5.26%
2	42	4.76%
2	46	4.35%
1	24	4.17%
1	25	4.00%
22	625	3.52%
1	29	3.45%
6	178	3.37%
1	30	3.33%
10	327	3.06%
2	66	3.03%
22	733	3.00%
20	668	2.99%
2	67	2.99%
1	34	2.94%
14	541	2.59%
2	86	2.33%

GIS AND ITS PRESENT POSITION IN THE UTILITY COMPANY

GIS AS A KEY INTEGRATION PLATFORM

EXAMPLE FROM ČEZ GROUP



ADVANCED GIS FEATURES

CZECH IDEAS FOR GEO-PORTAL SOLUTIONS IN UTILITY COMPANIES



Examples of using geo-portal solutions

- *Customer Care service and a high degree of automation such as „Call Before You Dig“...*
- *Automation of legislative requirements*
- *Simplifying the internal WF*

The most problematic part

- *The accuracy of maps*
 - *The issue of property rights*
- *The absence of large-scale reference maps*
- *Problematic data sharing*
- *Problematic higher degree of process automation*

GAS



ELECTRICITY



TELCO



Company

ČEZ Distribution

Saving MD in the Czech Republic

>85 000

Quantity per year 2012

>170 000

GEO-PORTAL IMPACT: Examples of the use Geoportal CEZ GROUP

MAP OF LARGE SCALE – NEXT STEPS

EXPECTATIONS FROM THE OWNERS OF THE TECHNICAL INFRASTRUCTURE



LEGISLATIVE - METHODOLOGICAL - FINANCIAL SUPPORT IN THESE AREAS

1. CONSISTENT SUPPORT FOR UDTM LARGE SCALE MAP PROJECTS
2. NON-DISCRIMINATORY ACCESS TO THE DATA SOURCES SUCH AS MAPS etc.
 - DATA DEVELOPED IN PUBLIC ADMINISTRATION FOR FREE - IN THE STANDARDIZED FORMAT OF COURSE - ALLOWING AUTOMATED DATA PROCESSING FOR CITIZENS AND COMPANIES DOING BUSINESS IN THE EU
3. FINANCIAL / PROCESS PENALTIES RELATED TO THE UNUSED OF ELECTRONIC AND AUTOMATED FORM COMMUNICATION AT ALL LEVELS OF USE
 - *SYSTEMATIC EDUCATION OF THE GENERAL PUBLIC*
 - *NEW TECHNOLOGIES FOR DATA COLLECTION*