**„Cadastral Maps Network” Meeting**

**Bratislava, 21 11 2012**

**Minutes**

1. **Project Situation/ Project Overview**

* 2010: kick off conference in Budapest

2011/2012: distribution of a questionnaire, construction of an online platform on the Icarus website to share information and ideas for possible cooperation

* 14 partners from 9 countries are interested (main interest: digitization, preparation, online presentation)
* Next steps: complementary roles, innovative approaches, methodological development, IT partners and GRS applications are needed

1. **Possible project work packages**

* WP 1 Digitization (incl. preparation, conservation)
* WP 2 Internet publication and georeference (common platform or national platforms)
* WP 3 Automatic interpretation of maps (vector conversion, automatic import - content into Metadata, GIS systems)
* WP 4 Descriptive standards, metadata
* WP 5 Research: history and cartographic analysis of cadastral mapping
* WP 6 Education, didactics
* WP7 Dissemination
* WP 8 Mobility and professional exchange

1. **Publication of CM in Hungary and Croatia**

* The publication started already in HU and HR (2 types of cadastral maps: colored sheets, 100.000 pieces digitized - bigger sheets, no owners contained, 45.000 digitized)
* GIS system for geo referencing used (center point - corner points – result: county mosaic)
* Problems of geo referencing: no coordinates, irregular sheets, different time periods, different systems in one county
* Publication (for example the 2nd military survey of the Habsburg empire): DVD Rom - software ARCANUM, publication on Google Maps/Google Earth - 3 dimensional publication possible, accuracy about 10-20 meters

1. **GIS applications and possibilities (Presentation of the University of Pannonia, HU)**

* Intelligent map making process

map preparation – scanning – database storage – geo referencing – color processing (calibration, transformation, digital restoration) – segmentation – raster vector conversion – interpretation (metadata needed, extract information, use system as a spatio-temporal database, connect to different information sources) – map server (Google or others)

* The University offers: GIS system development, digital restoration, image processing, high performance distributed and parallel computing, web and map server development
* Open source programs would be the best possibility for long time preservation

1. **Questions/Comments**

* Further cooperation within the state archives of HR are planned (State Archives Osijek)
* Automatic interpretation of hand written information → just possible if limited vocabulary is used (it´s possible to teach the system to recognize names) - existing databases of toponyms can be used as a source
* Data storage/Compression

Easiest way for a common publication platform: each country have its own server - second server with copies as “safeguard” if one country server fails - no large storage systems needed (for example 1 TB for the whole CM of the Habsburg Monarchy if its compressed to JPG) - common platform with links (like Archives Portal Europe)

Problem: TIF files are needed for geo referencing (300 dpi not enough to see the parcel numbers) → 1 TB far too less storage space