

CADASTRAL MATERIAL IN SLOVENIA - SCANNING AND USAGE



Year 1999

In our reading room about 500 users are using maps per year. Most frequently used **maps** are by use even each week **more and more damaged**. We had to decide how to prevent the originals.

Solution: reproduction

Problem: where to start, how



The so called "graphic part" consists of cca. 60.000 maps. The best solution was to scan the original maps. However, in cases where the original maps were no longer in existence, the colored copies or any other copies of original were scanned(26.000).

2000 - 2002

ARS

- **public call for tenders**
- **selection of external contractor,**
- **preparing archival material to move out of the ARS building**
(lack of appropriate premises, small number of ARS personnel for the project)

External contractor

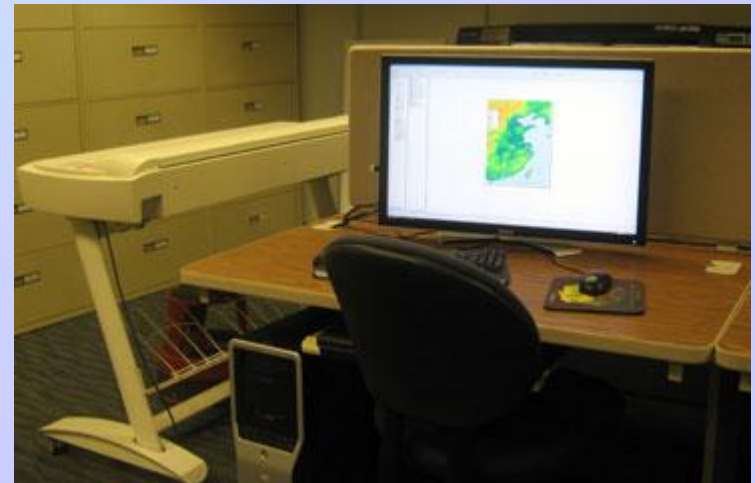
- **scanning and development of solution for reading room**



Scanning of Graphical part

All maps were scanned on flatbed scanner with 16 million color depth and 200 dpi scanning resolution.

The original scanning format was tiff, and afterwards the scans were converted into jpeg from size approx. 70 MB to 3 MB. In year 2000 it was too expensive to keep the original files (estimation for the graphical part was more than 2.000 Gb). We have got 63 Gb with this compression and this was affordable to keep on server.





In previous presentation you have seen pictures of franciscan cadastre and reambulation, here we have the French one.



We have also approximately 2.000 small sketches from original folders

Size cca.: 15x15cm in different measures according to expanse of cadastral municipality

They are scanned for better and easier orientation.

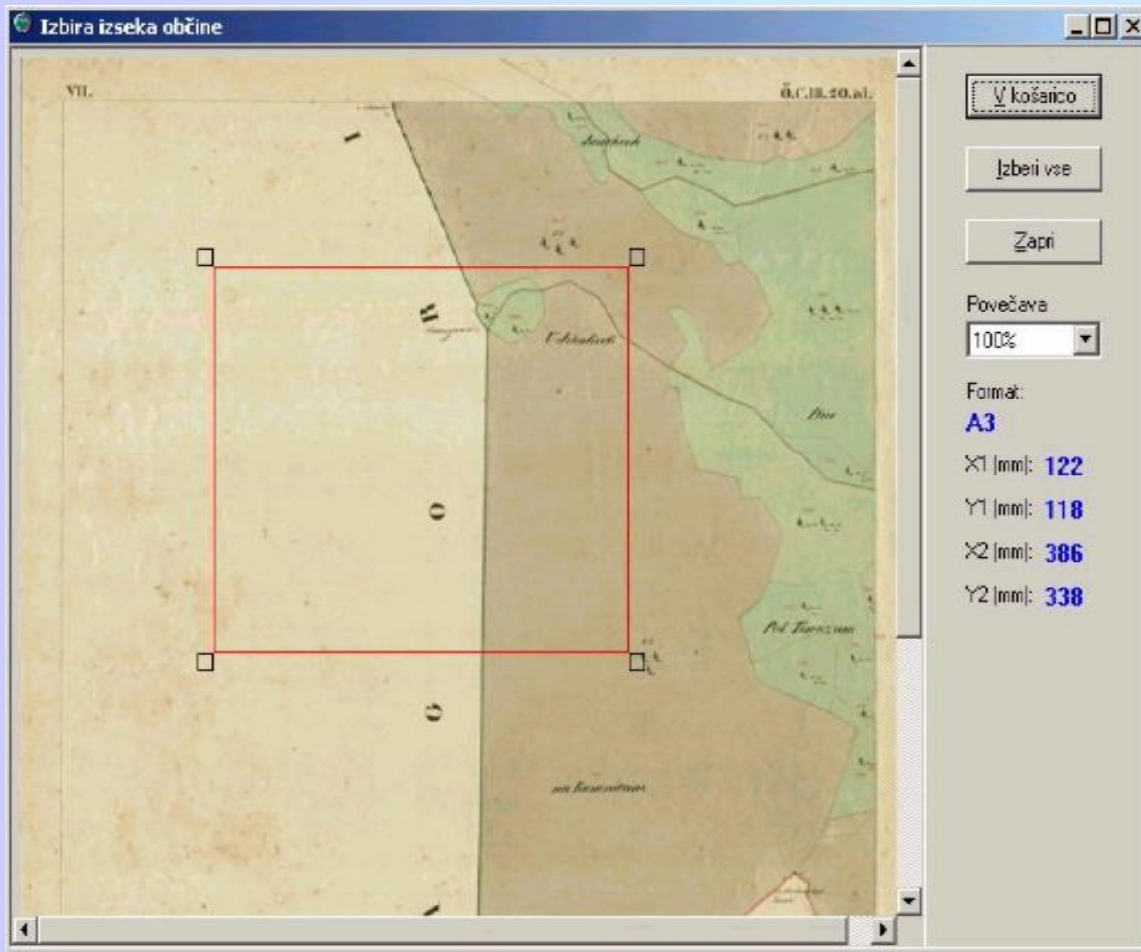


The scanned images of the Cadastre are additionally compressed for the Internet version and it can be viewed also in English at http://sigov3.sigov.si/cgi-bin/htqlcgi/arhiv_en/enos_isk_kat.htm

The screenshot displays a web interface for accessing cadastral data. On the left, there is a search form titled 'SIKLE KATASTROV' with fields for 'CADASTRAL COMMUNITY', 'DISTRICT NAME', 'THE NUMBER OF COMMUNITY', and 'ANOTHER NAME OF COMMUNITY', along with a 'Search' button. The main content area is divided into three sections: 'KEY DATA ON DOCUMENT' showing 'L9 Zasip' and '45 289019'; 'DESCRIPTIVE DATA ON DOCUMENT' with links for 'Map' and 'Anketni list'; and 'Map' which displays two rows of map thumbnails. The first row, 'Franciscejski kataster za Kranjsko', includes a large thumbnail labeled 'L009A' and three smaller ones labeled 'L009A01', 'L009A02', and 'L009A03'. The second row, 'Republični kataster za Kranjsko', includes a large thumbnail labeled 'L009C' and three smaller ones labeled 'L009C01', 'L009C02', and 'L009C03'.

The web versions of images are not very suitable for printing and they can not be ordered by the application.

Usage of cadastral maps in reading room



- "originals"
- simple search
- ordering
- selecting details for print
- support from personel (legends, creation dates, related material)

2006

scanning of "written part"

Cca. 500.000 sheets mostly black ink handwriting with red ink corrections

Size cca.: 24.5x37.3cm

Different bindings compose only a few or up to 370 pages.

Outsourcer scanned with Zeutshel book scanner (150dpi, 16 million colors) and made also PDF-A files (one book one file).

Compressibility was determined through tests, the aim of which was to achieve a print quality comparable to the original at the ratio of 1:1.



In 2007 the primary goal was achieved – the fond of Franziscean Cadastre, which constantly has a high frequency of use, finally got its **reproduction** and for that reason it will no longer be a subject of damage use. We also have a **database** with data on cadastral municipalities (or communities), kreises (districts), including numbers of municipalities and the secondary (another) names (the original is mostly in German, but the Slovene names are in several versions).

But neither local nor web solution have possibilities to add written part. In 2008 we decided to transfer all data on Cadastral material "to Oracle" using out of the box solutions scopeArchive and scopeQuery as for other data on archival material and scanning projects according to basic archival principles (fonds, sub-fonds, series). We plan to add the written part of the cadastre on web in the period of one year.

SI AS 177	Franciscejski kataster za Štajersko	1823-1869	zaključen	F
M	Mariborska kresija			
M	Franciscejski		zaključen	
SI AS 177/M/F/M1/p	Amberg pri Cmureku, k.o.		zaključen	
	protokoli		zaključen	
M001PR	Opis meje katastrske občine		zaključen	
M001PS	Zapisnik zemljiških parcel ka...		zaključen	
	največji največji		zaključen	
N228PT	TIFF		v delu	
M2	Anače (Cmurek) k o		zaključen	



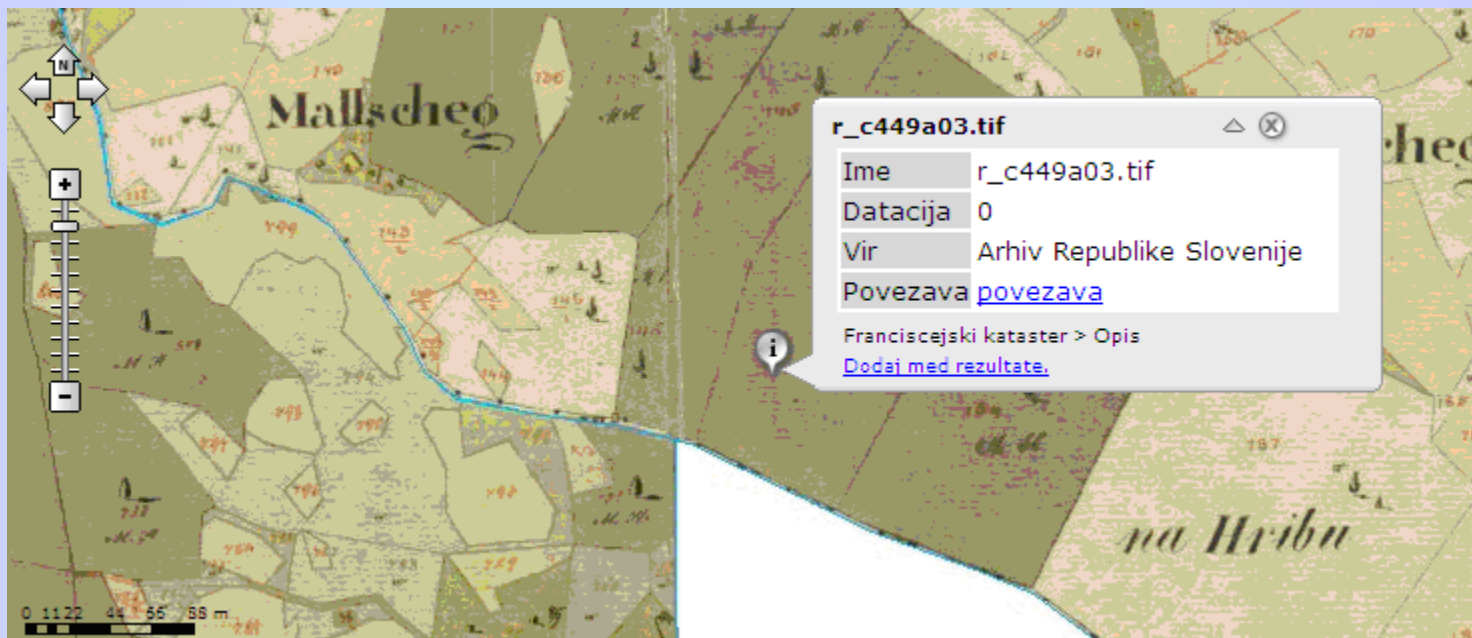
We also deliver parts or entire collections to other (regional) archives and museums with agreements for reproduction limitations.

The entire graphical part was delivered also to The Cultural Heritage Information and Documentation Center for using in their **GIS**:

<http://giskds.situla.org/giskd/>

(unfortunately it does not cover all maps yet)

Maps are georeferenced and connected to "source" with links for each map.



We recommend this solution to our users for material which is kept in Trieste and also when they do not know name of the cadastral community.

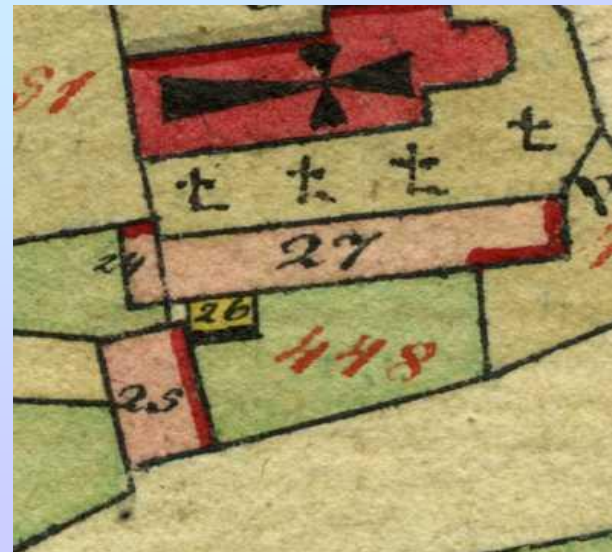
Our scans don't not allow a quality zooming

scan "200 dpi" from year 2000

new test scan 300 dpi



Zooming to find number 26



Additional data on our scanning methods

- Conference presentation by Mr. Marjan Dobernik (Impact Assessment of Digital Cultural Heritage Content and Services), held in Helsinki 12th October 2006
<http://www.nba.fi/nrg/speakers.htm>.

- Published articles, the author is also Marjan Dobernik with same title in Arhivi (publication of The Slovene Archival Association), Letnik XXV, št. 2, leto 2002, Reproduciranje franciscejskega katastra (Reproducing the cadastral register introduced by the Emperor Franz I. of Austria), and in the papers for DOK_SIS 2004 (international symposium Document Management Systems).





questions

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