



Regione Toscana



CARTOGRAPHY AND CADASTRAL MAPS

Vision from the past, for a vision of our future

WORKSHOP

The historical registers of Tuscany and the CASTORE project

PISA, 6-7 Novembre 2013

Scuola Normale Superiore – Piazza dei Cavalieri, 7 - Pisa



The context

The regional law 3 January 2005, n. 1 - Rules for the government of the territory

Article 29

Training and management of regional geographic information system

1. The Region, the provinces, municipalities and other public bodies concerned shall establish, as part of the information system, the regional geographic information base, whose main components are:

- a) information bases topographic, geological, orthophotos, satellite and aerial images, the historical maps;**
- b) the basic information on the status of issues essential resources of the area;**
- c) the basic information on the status of fact and of law resulting from the instruments of spatial planning and in the acts of government land.**

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C A S T O R E CAtasti STOrici REgionali

is a project realized in the years 2004-2006
on the basis of a

COLLABORATION AGREEMENT

between

Regione Toscana

and

**Ministero per i Beni e le Attività Culturali
(Ministry of Heritage and Cultural Activities)**



THE INSTITUTIONAL PARTNERS

Regione Toscana

General Directorate of Territorial and Environmental Policies - SITA

Ministero per i Beni e le Attività Culturali

- General Directorate for the Archives

The State Archives in Tuscany

Agenzia del Territorio (The Italian Cadastre)

- The provincial office of the Cadastre of Lucca

Tuscan local governments

- Provinces and Municipalities



OBIETTIVI PRINCIPALI DELL'ACCORDO

To document the knowledge of the regional territory cataloging, digital imaging, geo-referencing and through the dissemination of land registers geometric-particles of the pre-unification Tuscany

Provide local authorities in Tuscany a homogeneous historic cartographic basis for the enrichment of the cognitive frameworks for the instruments of territorial and environmental planning

Exploit the historical cartographic representations facilitating access by the citizens, the technicians, schools and universities, by means of the dissemination on the Internet

Safeguard the state of preservation of the original documents and to enhance their access at the premises of the archiving authorities



PHASES OF REALIZATION

Filing of maps, with the collaboration of the Department of Historical and Geographical Studies of the University of Florence

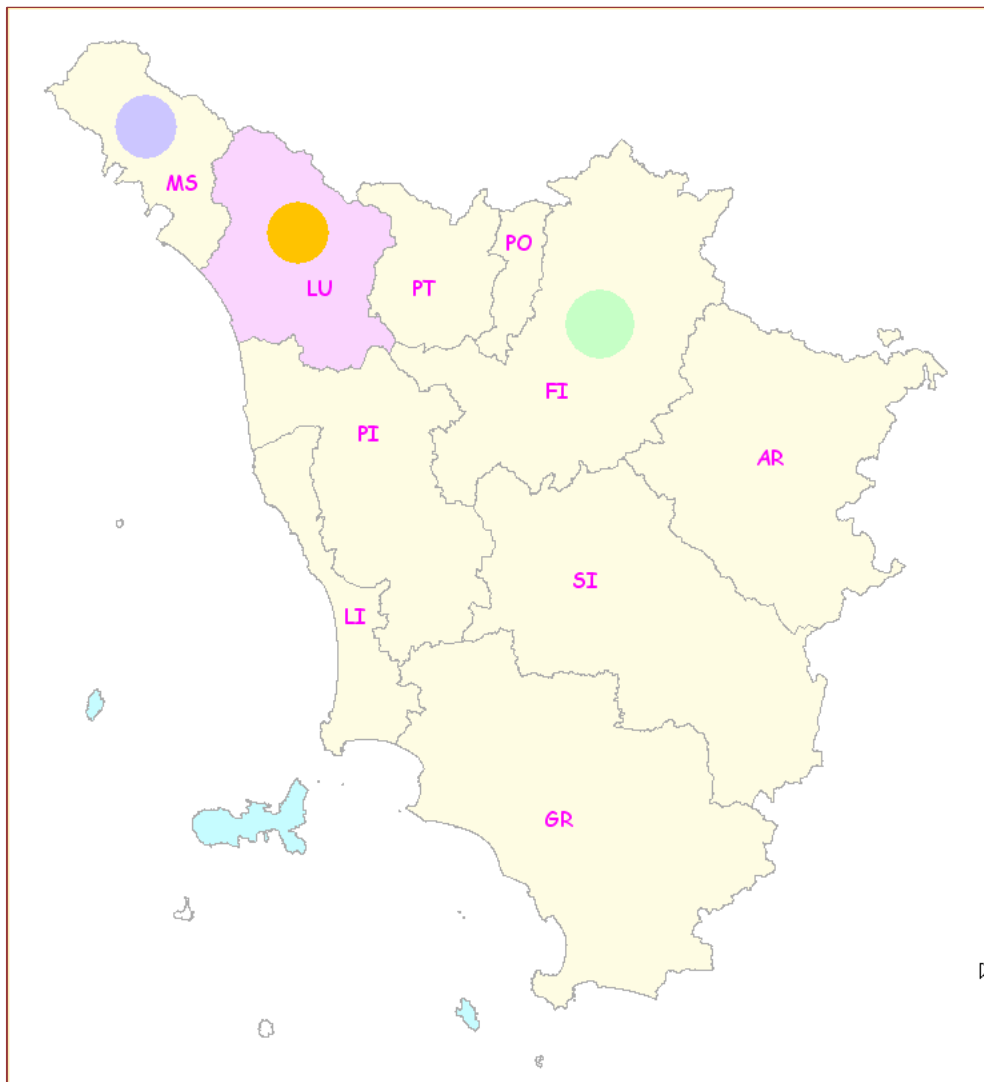
Acquisition of digital maps, by specialized companies at the premises of the State Archives, with large format and high-resolution scanners

Georeferencing of maps, by companies specialized in the use of GIS technologies

Data integration and development of the system for Internet publishing, by the Regione



GEOGRAPHICAL DISTRIBUTION OF ARCHIVISTIC FUNDS



GENERAL LAND REGISTRY OF TUSCANY - CONTINENT

GENERAL LAND REGISTRY OF TUSCANY – ISLES

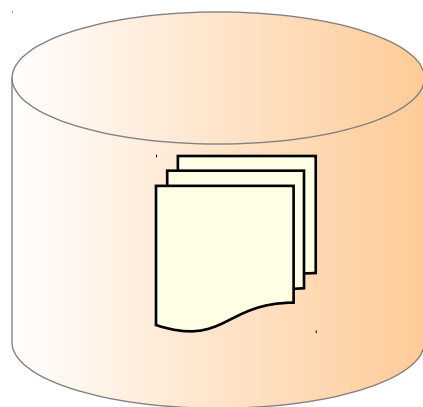
BOURBON LAND REGISTRY OF LUCCA

POST-UNITARY LAND REGISTRY OF LUCCA

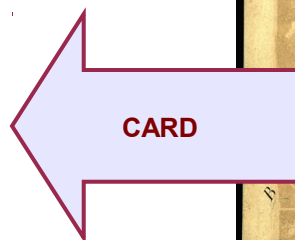
FRENCH LAND REGISTRY

ESTENSE LAND REGISTRY OF MASSA AND CARRARA

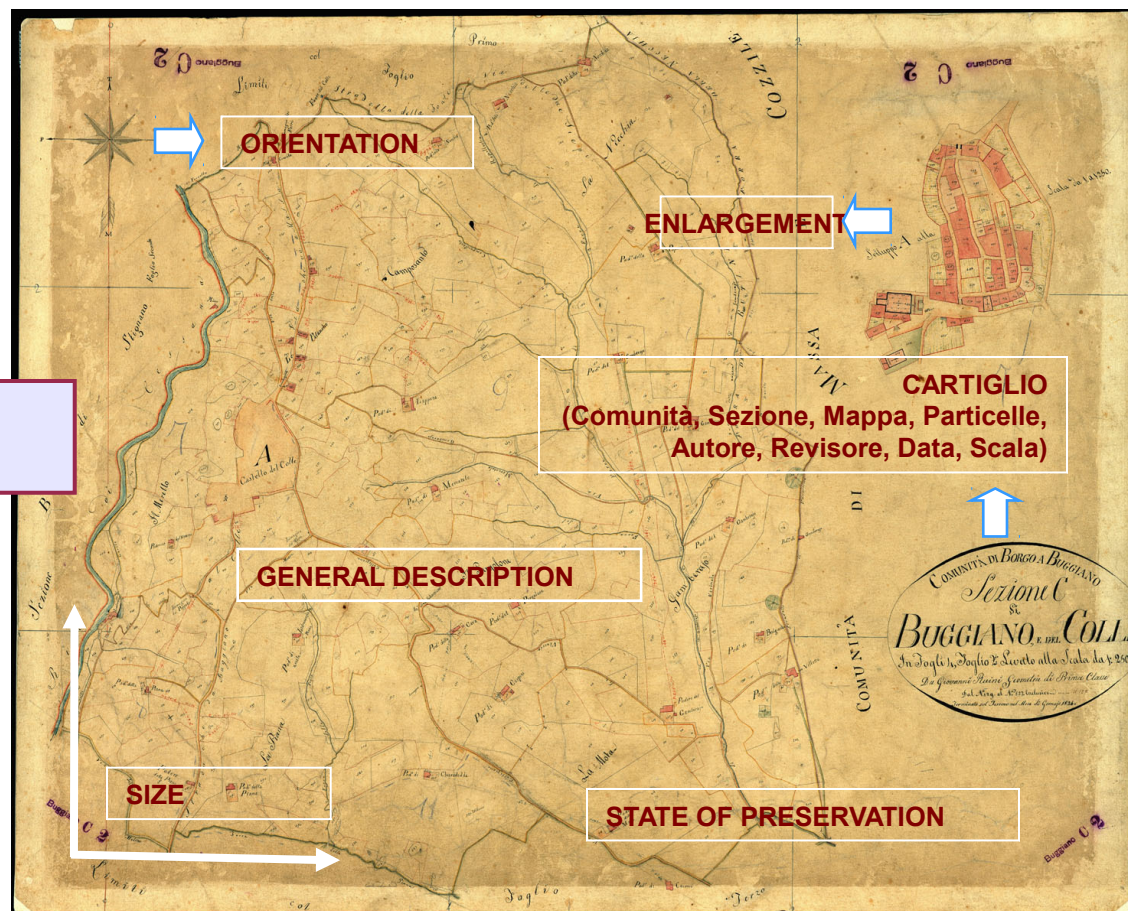
Filing of maps



CARDS DATABASE

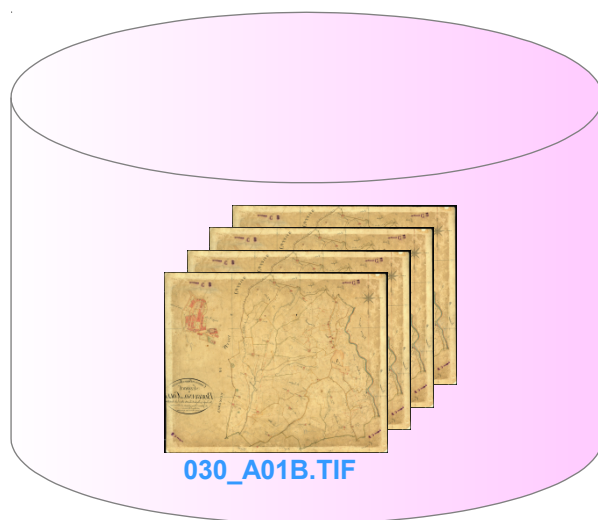


CARD

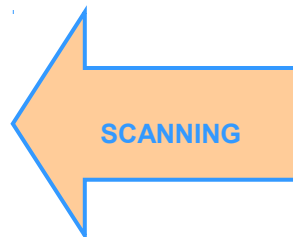


DIGITAL MAPS - 1

Acquisition of digital maps

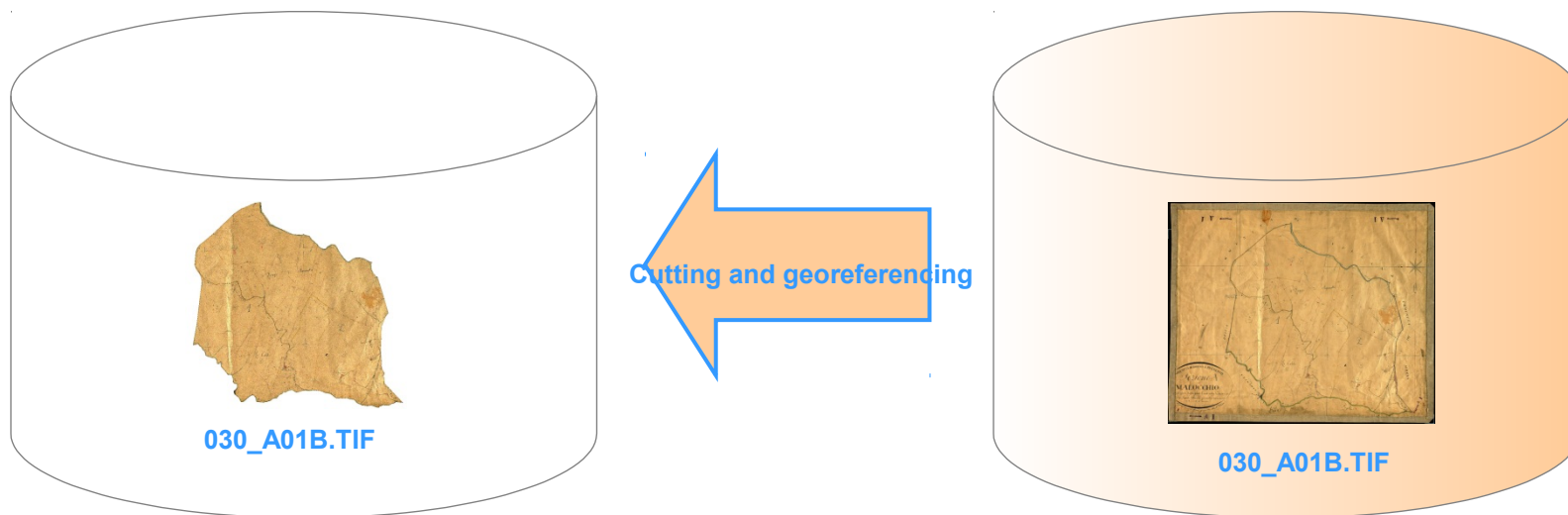


DATABASE OF THE ORIGINAL MAPS



DIGITAL MAPS - 2

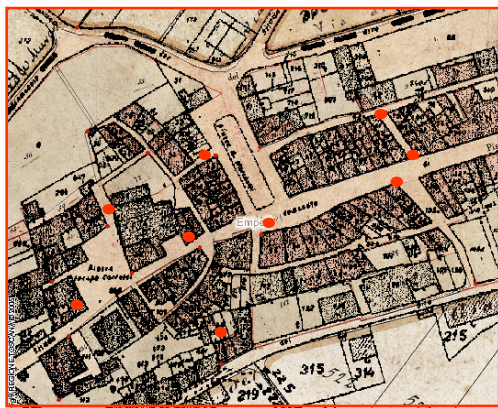
Cutting and georeferencing the maps



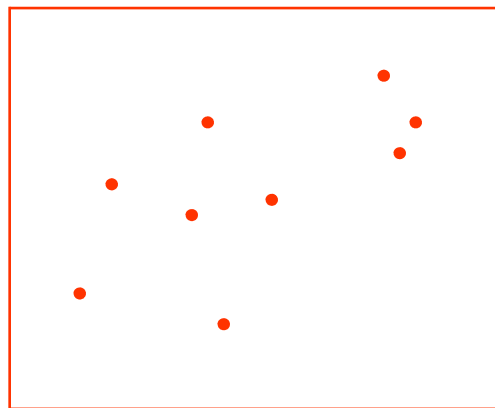
DATABASE OF GEOREFERENCED MAPS

TRATTAMENTO DIGITALE MAPPE - 3

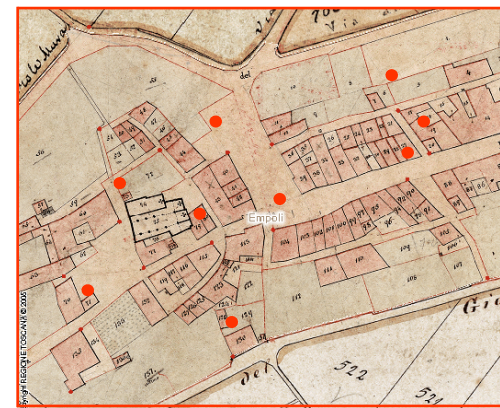
Georeferenziazione mappe



Mappa
moderna



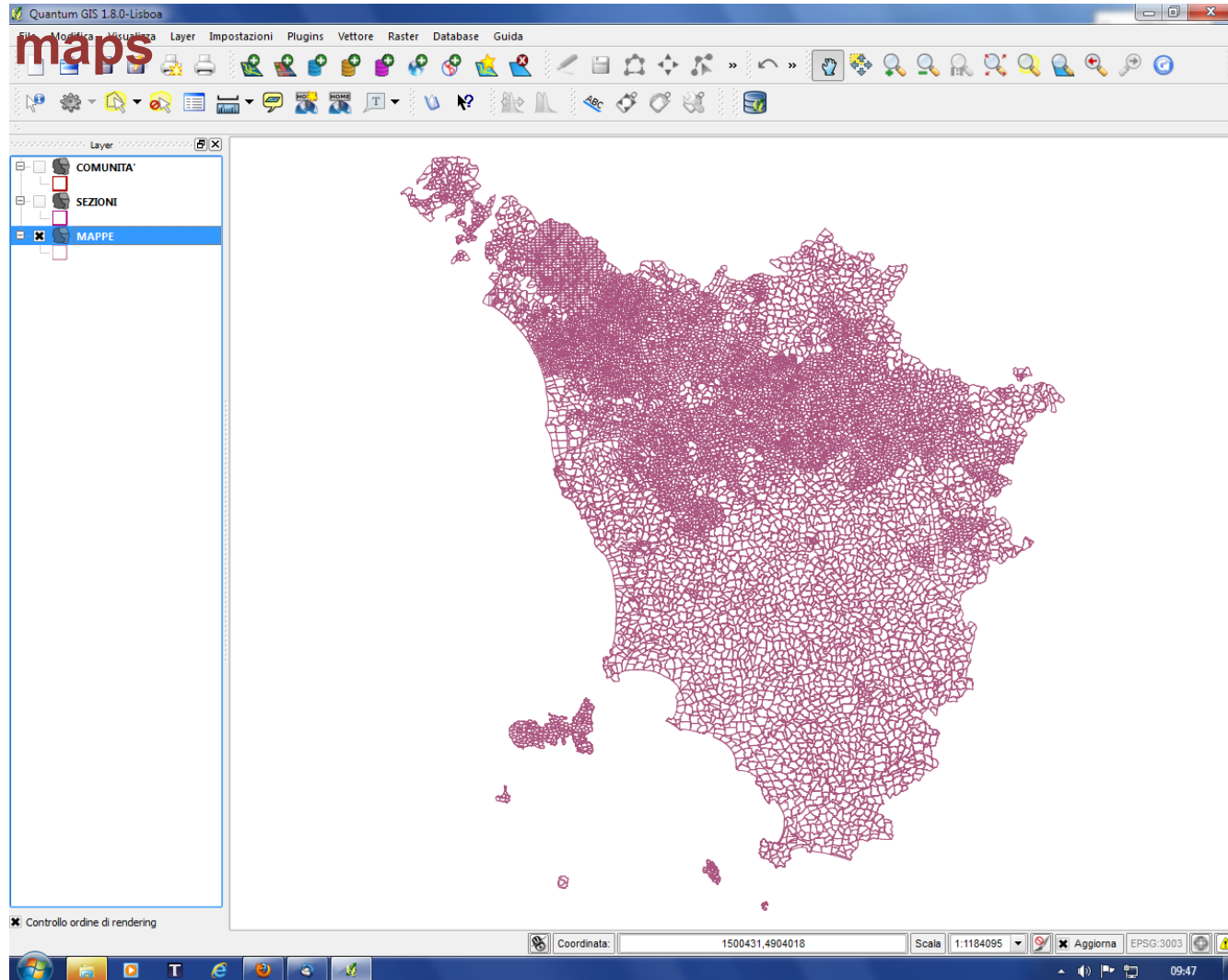
Punti di controllo



Mappa antica



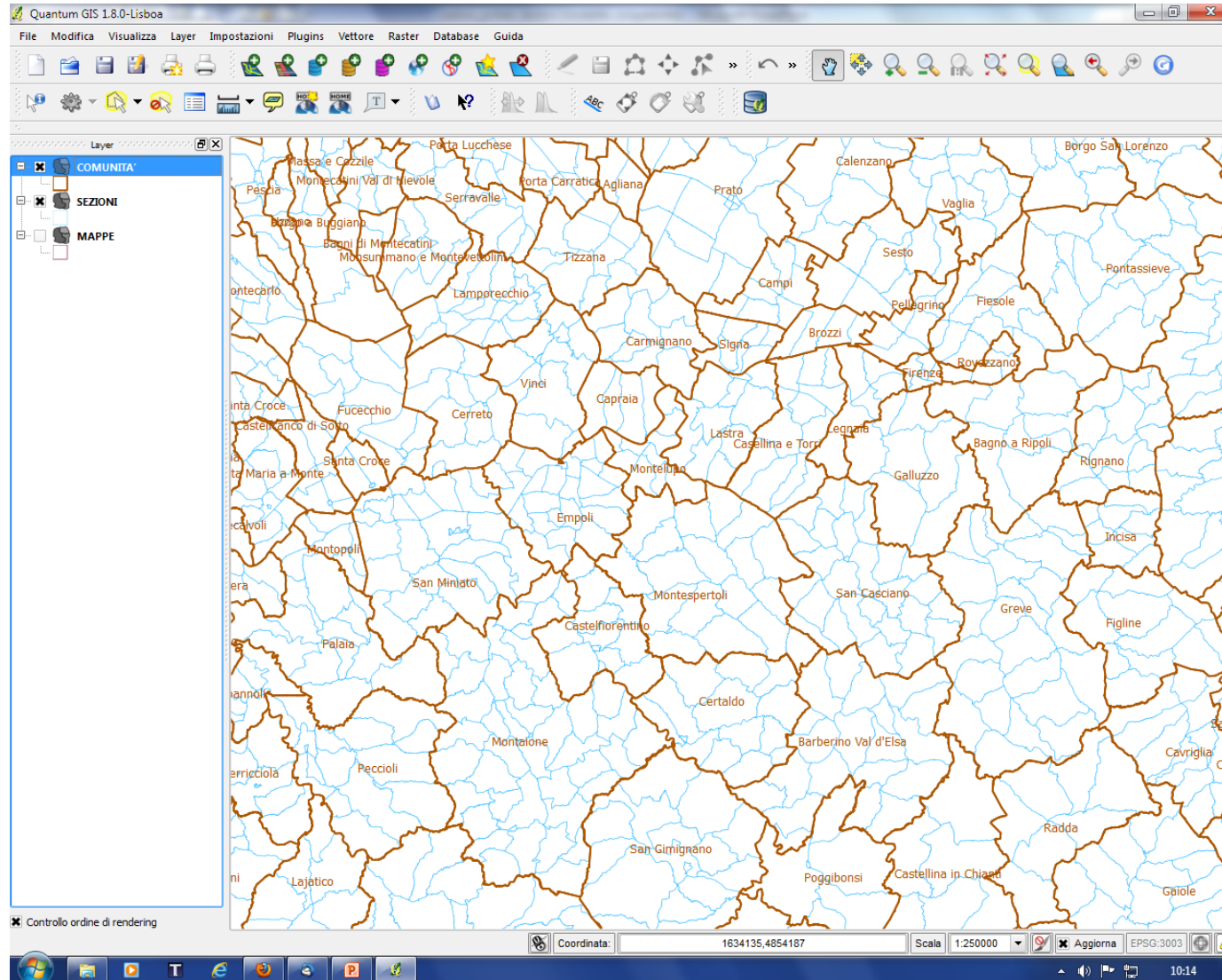
More than twelve thousand georeferenced



The screenshot shows the Quantum GIS 1.8.0-Lisboa application window. The title bar reads "Quantum GIS 1.8.0-Lisboa". The menu bar includes "File", "Modifica", "Visualizza", "Layer", "Impostazioni", "Plugins", "Vettore", "Raster", "Database", and "Guida". The toolbar contains various icons for file operations, navigation, and editing. On the left, the "Layer" panel is open, showing a tree structure with "COMUNITA'" (Municipalities) selected, and sub-items "SEZIONI" (Sections) and "MAPPE" (Maps). The main map area displays a map of the Prilica area, showing the boundaries of various municipalities and sections. Labels on the map include "PRILICA", "S. MICHELE A CASTIGLIONI", "S. MARTINO A MONTAGNANA", "POGGIO CAPPONI", "MONTESPERTOLI E MANDRIE", "MONTecastello e BOTINACCIO", "S. MARIA A CELTAUVA", "CORTINA", "GRICCIANO", "S. QUIRICO A ORTIMINO", "S. MARIA ALLA TORRE E S. PIRO IN MERCATO", "S. STEFANO A LUCIGNANO", "S. LORENZO A MONTALBINO", "LUCARDO E ALIANO", "CASTEL VECCHIO", "MONTESPALDI", "POGGIO BERTINI E S. QUIRICO IN COLLINA", "MONTAGNANA", "S. MARIA A CASTIGLIONI", "S. MARTINO A MONTAGNANA", "POGGIO CAPPONI", "MONTESPERTOLI E MANDRIE", "MONTecastello e BOTINACCIO", "S. MARIA A CELTAUVA", "CORTINA", "GRICCIANO", "S. QUIRICO A ORTIMINO", "S. MARIA ALLA TORRE E S. PIRO IN MERCATO", "S. STEFANO A LUCIGNANO", "S. LORENZO A MONTALBINO", "LUCARDO E ALIANO", "CASTEL VECCHIO", "MONTESPALDI", "POGGIO BERTINI E S. QUIRICO IN COLLINA", "MONTAGNANA", "S. MARIA A CASTIGLIONI", "S. MARTINO A MONTAGNANA", "POGGIO CAPPONI", "MONTESPERTOLI E MANDRIE", "MONTecastello e BOTINACCIO", "S. MARIA A CELTAUVA", "CORTINA", "GRICCIANO", "S. QUIRICO A ORTIMINO", "S. MARIA ALLA TORRE E S. PIRO IN MERCATO", "S. STEFANO A LUCIGNANO", "S. LORENZO A MONTALBINO", "LUCARDO E ALIANO", "CASTEL VECCHIO", "MONTESPALDI", "POGGIO BERTINI E S. QUIRICO IN COLLINA". The status bar at the bottom shows "Controllo ordine di rendering", "Coordinata: 1659823,4840309", "Scala: 1:50000", "Aggiorna", and "EPSG:3003". The system taskbar at the very bottom shows the Windows logo, several application icons, and the time "10:21".



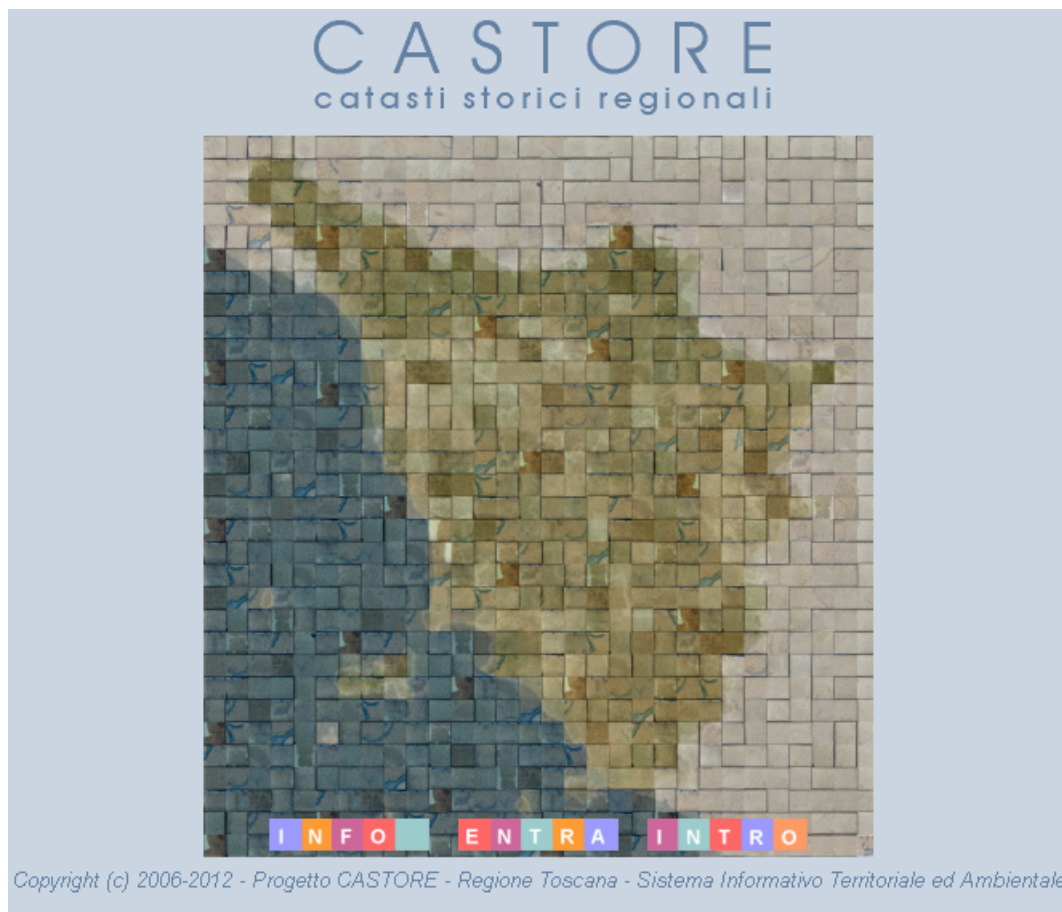
Merging and dissolving the Sezioni we get the Comunità





The publishing on Internet

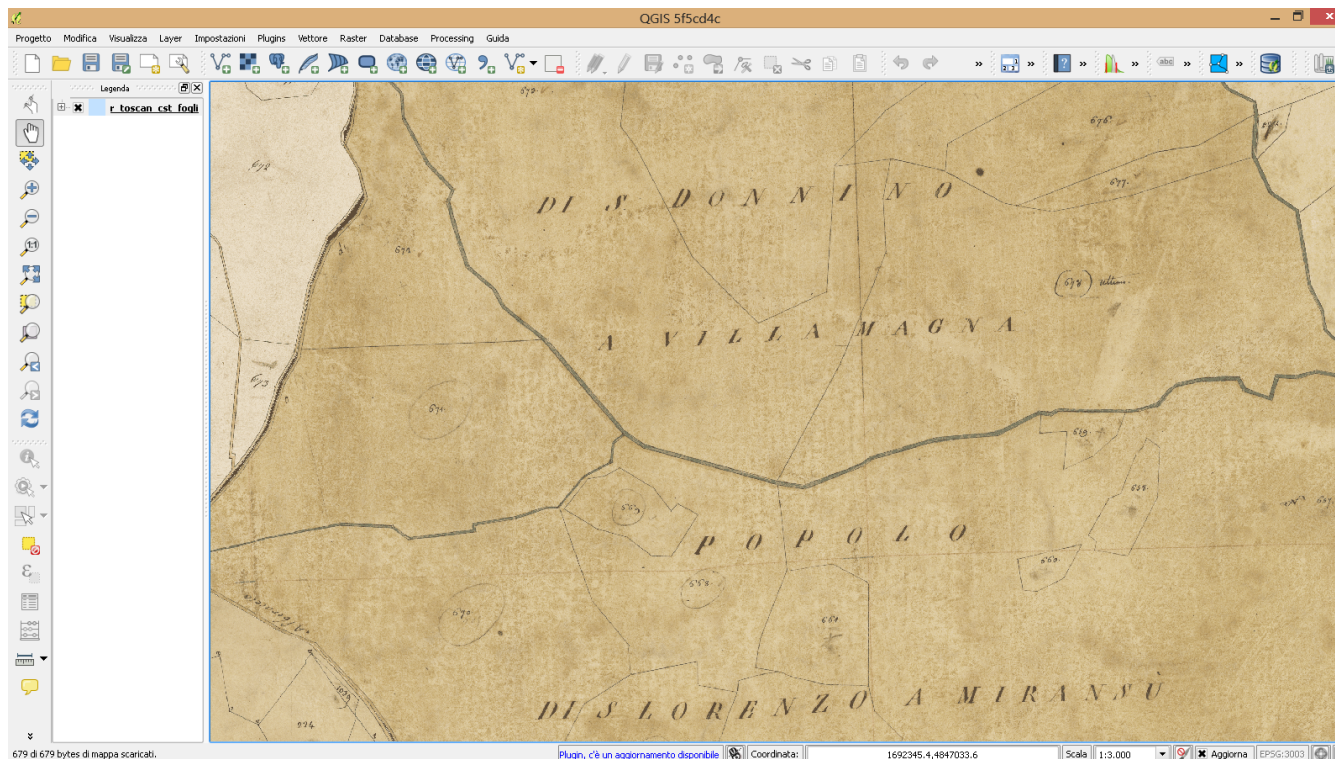
Searching, visualization and geographical navigation



<http://www.regione.toscana.it/-/castore-catasti-storici-regionali>

The publishing as Web Mapping Service

CASTORE_WMS is an OGC WMS service of the Tuscany Region specifically devoted to publishing the maps of the Castore project



Allows the viewing, zooming, panning, inquiry of the maps and related data via Geographical Information Systems

<http://www502.regione.toscana.it/geoscopio/servizi/wms/CASTORE.htm>



Further Developments of the CASTORE project - 1

(2008-2012)

Agro-forestry land use and land rents in the nineteenth century per cadastral section
(Regione Toscana e Dipartimento di Storia dell' Università di Siena)

Database of the building sediments with the dating of their persistence
from cartographic sources and historical aerial photography:
nineteenth century Land Registries and orthophoto of the years 1954, 1978, 1988, 1996
(Regione Toscana e Dipartimento di Urbanistica dell'Università di Firenze - LARIST)



Further Developments of the CASTORE project - 2

Collaboration agreement

(2013-2014) between

Regione Toscana

MIBAC - Direzione Regionale degli Archivi (
Ministry for Cultural and Environmental Heritage -
The Regional Directorate of the Archives)

Centro Interuniversitario di Scienze del Territorio – CIST (
Interuniversity Centre for Territorial Science)

Implementation of the CASTORE database

Filing and scanning of about six thousand maps
of Tuscany XV-XIX centuries

Comparative-historical archive of the names of places in Tuscany
acquisition and documentation of nineteenth-century place names
and comparison with the actual place names (even for revision purposes)



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