



Permanent Committee on Cadastre
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“Ci!- Cadastre iNSPIREd!”

Final report of the Project
Brussels, 10th December 2010

Julius Ernst, Austria

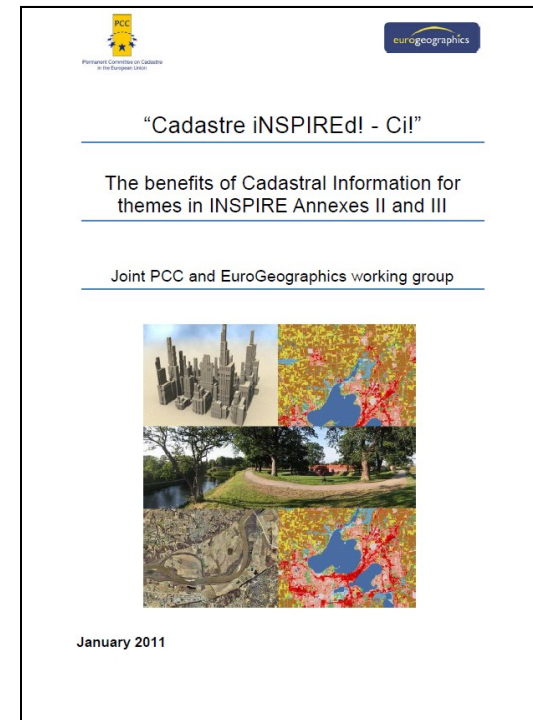


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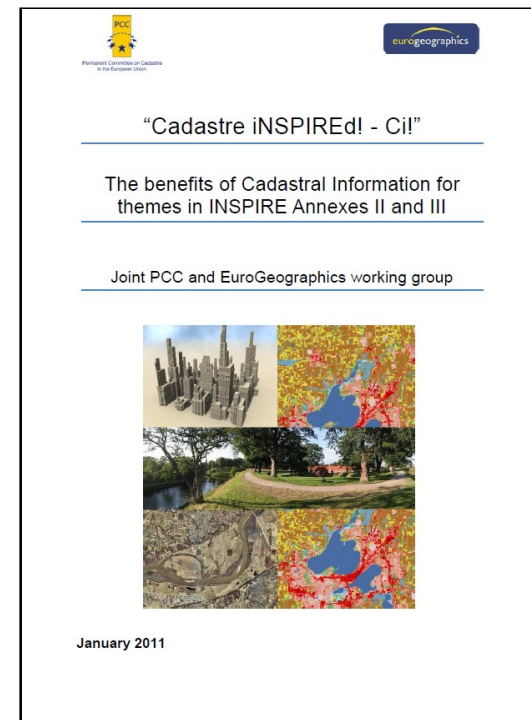


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What happened since last meeting

- Report at PCC meeting in Brussels (Dec. 2010)
- Review of the report
- Project successfully closed
-Report published (April 2011)
- Presentation at NERA/GEM-
European Building Inventory
Workshop





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Objectives

- ✓ influence the development of the INSPIRE data specifications of Annexes II and III
- ✓ contribute to the development of the INSPIRE- Data specifications
- ✓ be involved in an early stage of the process

Results

TWG “buildings” used the report as basic document to start

Many reflections to the project



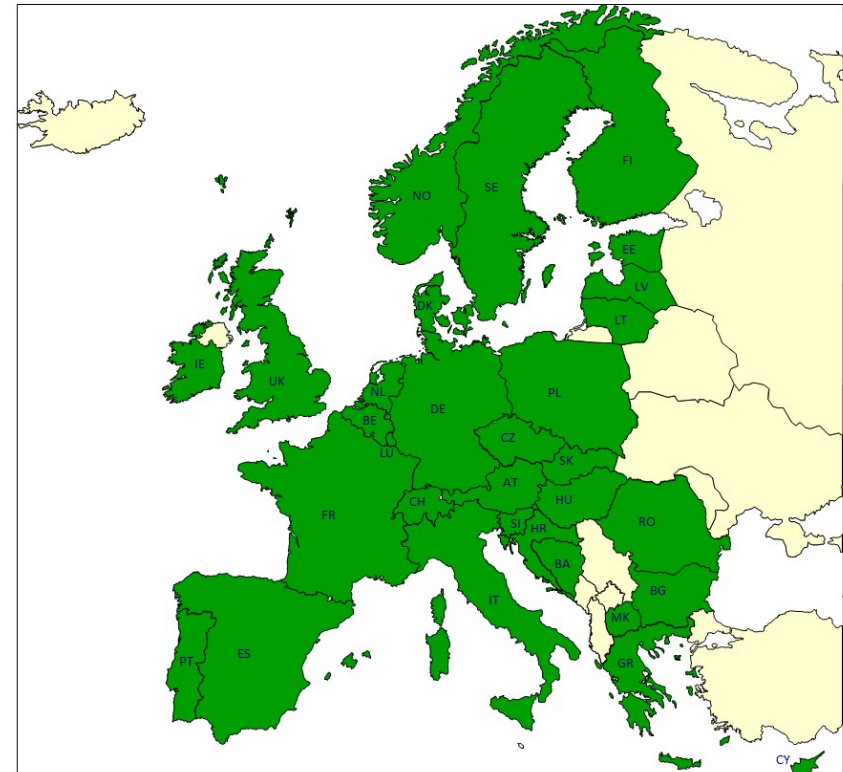


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Participation

- Great interest of members of EuroGeographics and the PCC
- 32 Cadastral organisations responded
- Representative picture of situation in Europe



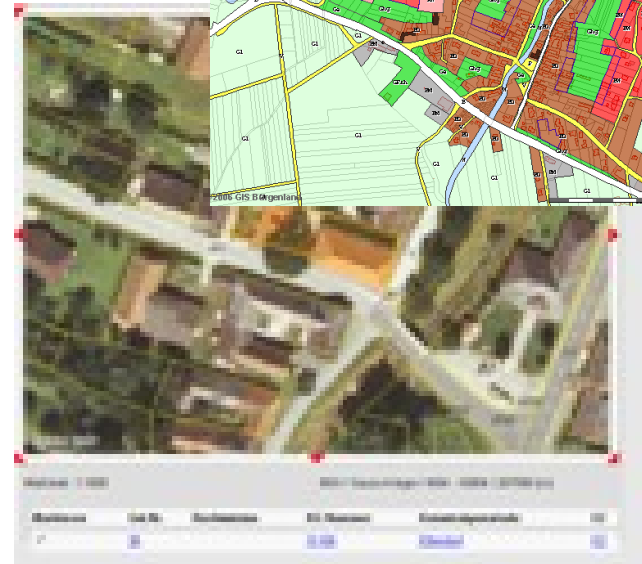
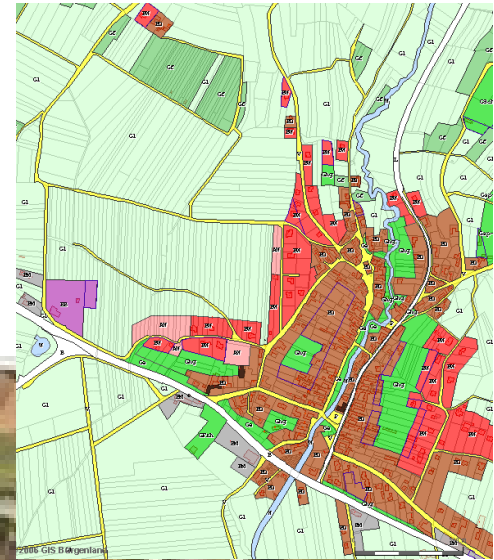


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Conclusions

- European Commission has to consider the importance of the cadastre ...
- ... the cadastre is very often used as a locator for a lot of information
- ...to establish Cadastral parcel an essential element in N(E)SDI





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Conclusions

- Large variety in the cadastral systems and in the availability of cadastral data sets
- Cadastral authorities are not always responsible for the themes by law, but there is often a strong connection of these themes to the cadastre and they often provide the data
- Regarding the surveyed themes in most of the countries the data of buildings are provided, although there is no legal responsibility of the cadastre



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Conclusions

- The cadastral organisations often provide a lot of additional information about buildings,
- Almost half of the countries provide information about land cover or land use
- In most of the countries orthoimages are not part of the cadastral data set, but many countries use them for improving the quality of the cadastral data,



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Conclusions

- Access to the data varies greatly depending on legal and/or technical restrictions
 - open, free-of-charge access to data to highly restricted access to data and information
- **More detailed information is documented in the final report**



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First activities

Europe- wide awareness of
our work: Invitation to

**NERA/GEM Workshop
in Pavia (Italy), 23rd/24th
May 2011**

Present the Results of
“Cadastre iNSPIREd! “

Focus on buildings



European Building Inventory Workshop

**European Cadastral
Buildings Information**

Julius ERNST
BEV- Bundesamt für Eich- und Vermessungswesen
Federal Office for Metrology and Surveying
Austria



Pavia, 23-24 May 2011





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NERA/GEM

- **NERA** (Network of European Research Infrastructures for Earthquake Risk Assessment and Mitigation)
 - EC infrastructure project
 - integrates key research infrastructures in Europe for monitoring earthquakes and assessing their hazard and risk.
- **GEM** (Global Earthquake Model)
 - initiative aims to establish uniform, open standards to calculate and communicate earthquake risk worldwide, by developing a global, state-of-the-art and dynamic earthquake risk model



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European Building Inventory Workshop

- Participation by invitation only
- aim was to understand the existing state-of-the-knowledge of buildings in Europe
- bring together experts that have used country-wide building inventories in public and private seismic risk applications
 - representatives from national mapping and cadastre agencies
 - partners that are directly involved in GEM





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NERA/GEM European Building Inventory Workshop



As part of the European FP7-funded project NERA (Network of European Research Infrastructures for Earthquake Risk Assessment and Mitigation, www.nera-eu.org), the partners EUCENTRE, CAR Ltd, KOERI and AIT are organising a European Building Inventory Workshop that will take place in Pavia, Italy from **23-24 May 2011**.

Tuesday 24th May

European Building Inventory - Related Initiatives

Exposure Databases for Cat Risk Modelling ([Paolo Bazzurro](#))

INSPIRE: Buildings Working Group ([Fabio Taucer](#))

European Cadastral Building Information ([Julius Ernst](#))

ACORD Standards ([Peter Hausmann](#))



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Role of the project “Ci!”

- Member of TWG buildings presented their work
 - focused to “Cadastre iNSPIREd!”
- Presentation of the organisations (PCC, EG)
- Explain the objectives/scope/results of the project
- Special focus on “buildings”

- Kind of a “moments of big revelation“ („aha-moment“)
„... we are surprised, that the cadastre includes information about buildings“...



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NERA

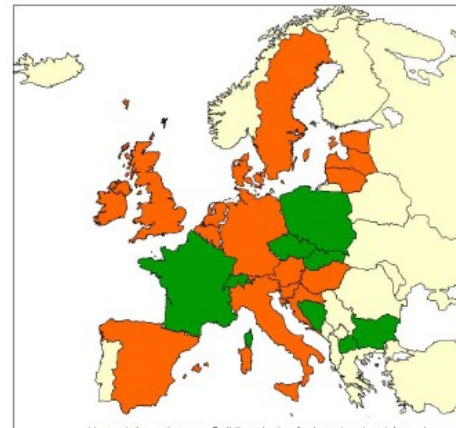
Source information

- Survey conducted by WG on CadastreINSPIREd! general information on whole Europe

Check-lists:

- From countries represented in the TWG BU
- From Reference Material: Norway
- From WG on CadastreINSPIREd!

NERA



Vector Information over Buildings in the Cadastral national Agencies

100% vector <100% vector

Information from CadastreINSPIREd survey
(raster issue mainly for cadastral data)

Investigation from
TWG BU

⇒ Most countries
have vectorisation
projects



INSPIRE
specifications only
about vector data



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To be mentioned....

- Hopefully a first step to spread information of the (role of the) cadastre to other experts
- We have to consider, that
 - Be careful with cadastral information:
 - User orientation in the survey is missed: focus was INSPIRE, so: be careful with interpretations !!
 - ... part of cadastral data set ??
 - Cadastre sometimes only provide the information
 - Not always a clear distinction
 - A lot of interpretation



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Questions discussed at the workshop

- Cadastral information progress, missing data and differences between countries
- can give building by building information on a basic level
 - this generally does not include building material
- Could INSPIRE obtain building material information in the future? This would involve changing the census in member states.
- What additional information could be indirectly obtained from building material information?



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Final conclusions

Benefit from Cadastre for INSPIRE ~~??~~

YES!

Huge variety (legal, technical) in
Cadastre in Europe

EC has (to) consider(ed) the importance
of the Cadastre

Establish an effective **“voice”** of the
cadastre at national and EU level

PCC
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eurogeographics

“Cadastre iNSPIREd! - Ci!”

The benefits of Cadastral Information for
themes in INSPIRE Annexes II and III

Joint PCC and EuroGeographics working group

January 2011



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Thank you to ...

- Amalia Velasco (Spain)
- Pierette Fraisse (Belgium)
- Frederic Mortiere (Belgium)
- Ewa Wysocka (Poland)
- Roger Ekman (Sweden)
- Francis Kaell (Luxembourg)
- Wilhelm Zeddies (Germany)
- Arturo Angelini (Italy)
- Pekka Halme (Finland)
- Julius Ernst (chair, Austria)





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Thank you for your attention !

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