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OME 2 – OPEN CADASTRAL MAP

WP6 – Development and Enhancement of the Open Cadastral Map
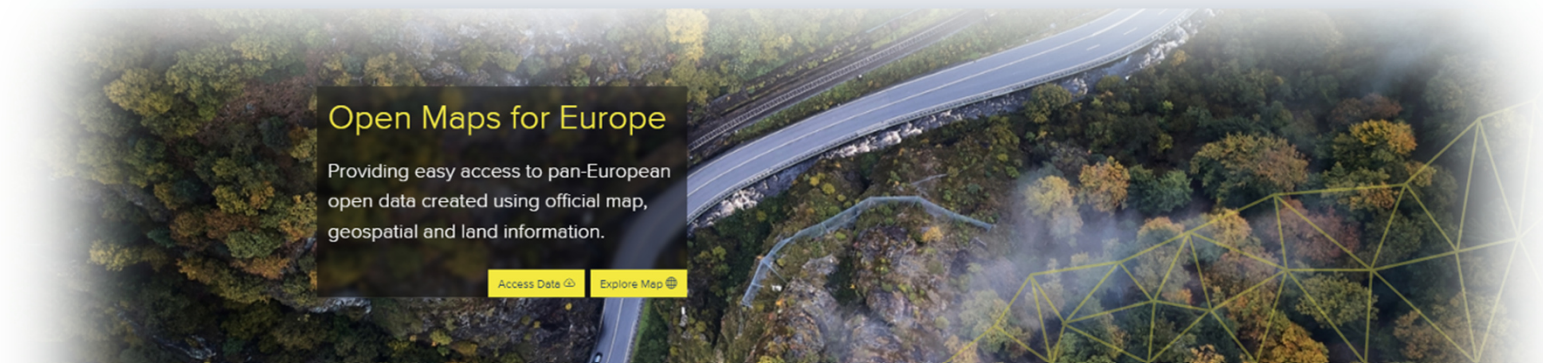
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Open Maps for Europe

https://www.mapsforeurope.org/

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The Open Cadastral Map

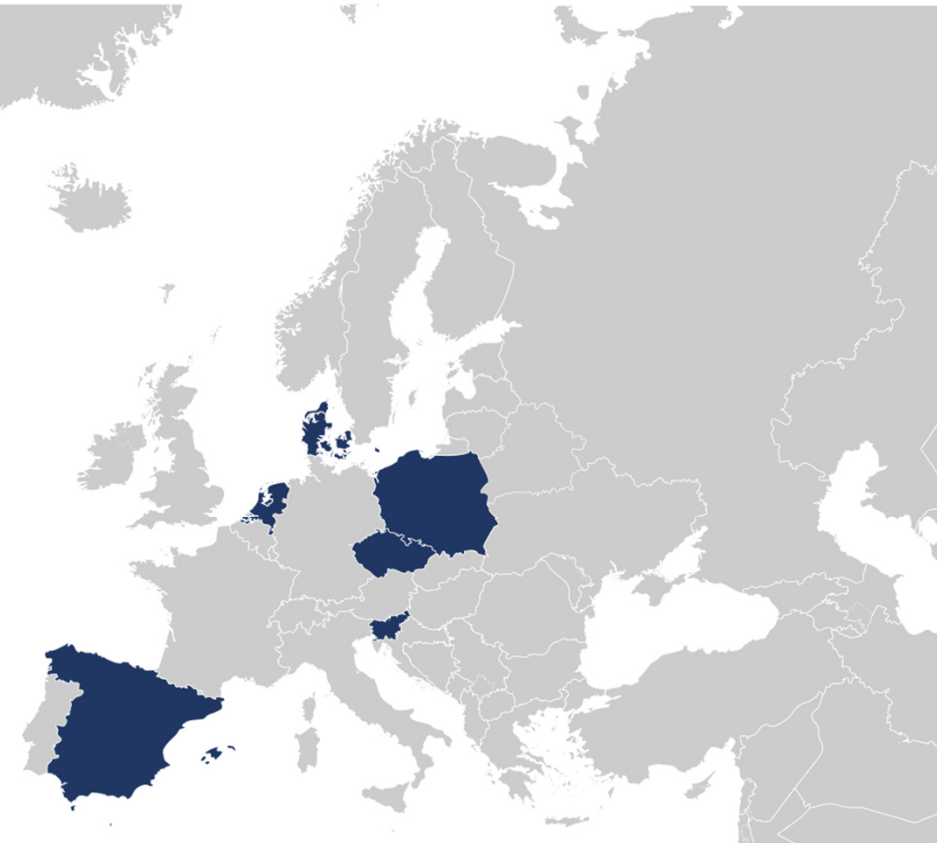https://www.mapsforeurope.org/datasets/cadastral-all

HVD: Cadastral Parcels, Buildings, Addresses and Administrative Units

Sustain: Currently data from 6 countries provided through the OME interface

The OME 2 Open Cadastral Map project will build on the successful results of the OME project

Extend: 9 additional countries
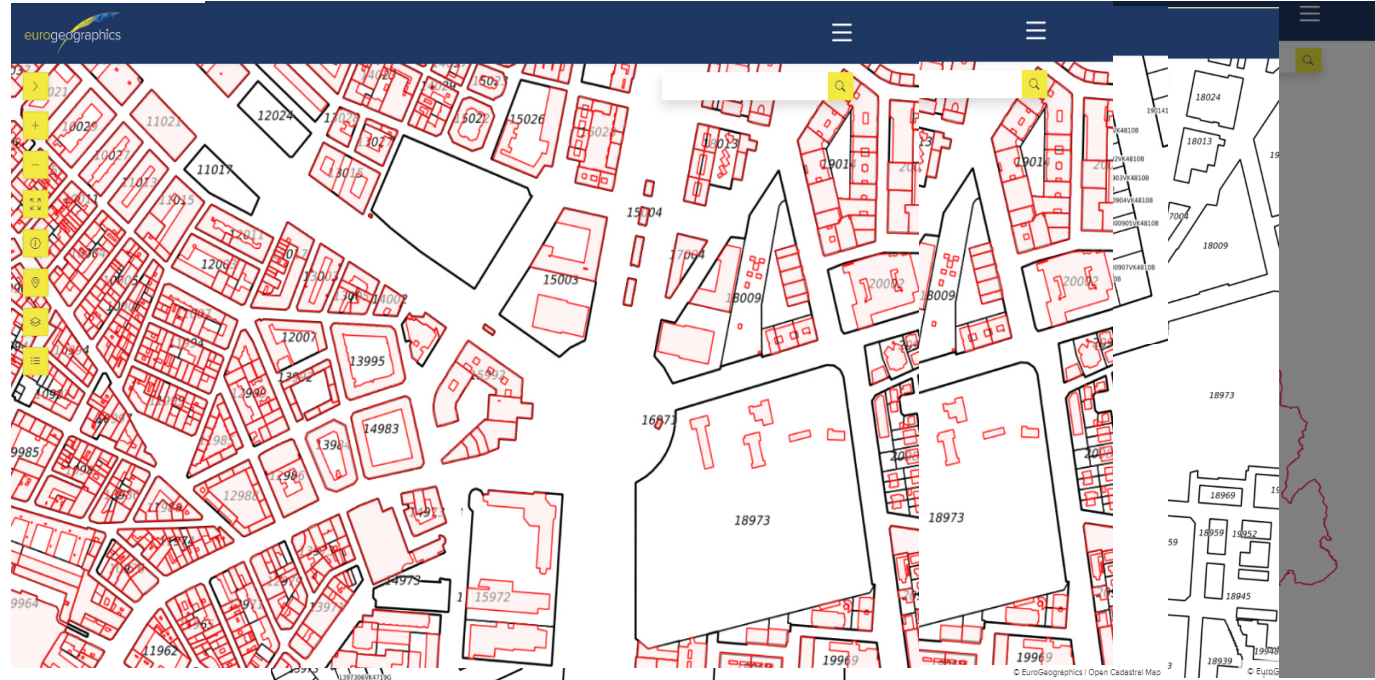
Enhance: New functionalities

Czech Republic
Denmark
Netherlands

Poland
Slovenia
Spain

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OCM current view and features

Administrative Units

Cadastral Zoning

Cadastral Parcels

Building

Building Part

Addresses

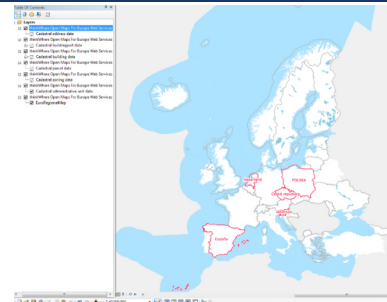All these themes are defined as part of the High Value Datasets

They can generate significant socioeconomic and environmental benefits

They are of great interest to the European Commission and its Services, to private sector companies and citizens.

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OCM current view and features
Layers Visibility

Map Scale	Visible Layers	Labeled
1: 2.500.000	Administrative Units / AUHierarchyLevel /1st Order	Yes
1:1.000.000	Administrative Units / AUHierarchyLevel/2nd Order	Yes
1:100.000	Administrative Units / AUHierarchyLevel/3rd Order	Yes
1:10.000	Administrative Units / AUHierarchyLevel/3rd Order Cadastral Zoning Cadastral Parcels Buildings	Yes No No No
1:5.000	Administrative Units / AUHierarchyLevel/4th Order Cadastral Zoning Cadastral Parcels Buildings	Yes Yes No No
1:2.500	Administrative Units / AUHierarchyLevel/4th Order Cadastral Zoning Cadastral Parcels Buildings Building Parts Postal Addresses	Yes Yes Yes No No No

Scale 1:2.000.000

Scale 1:1000.000
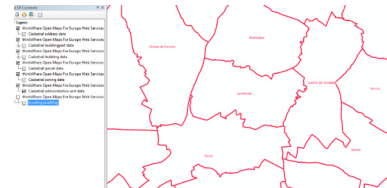
Scale 1:100.000

Scale 1:10.000

Scale 1:5.000

Scale 1:1.000

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OCM current view and features
View data & Get information online: getFeatureInfo

GetFeatureInfo (GFI) for cadastral parcel returns information provided through the national service like the national cadastral reference and **if possible a hyperlink (URL)** to access the national portal.
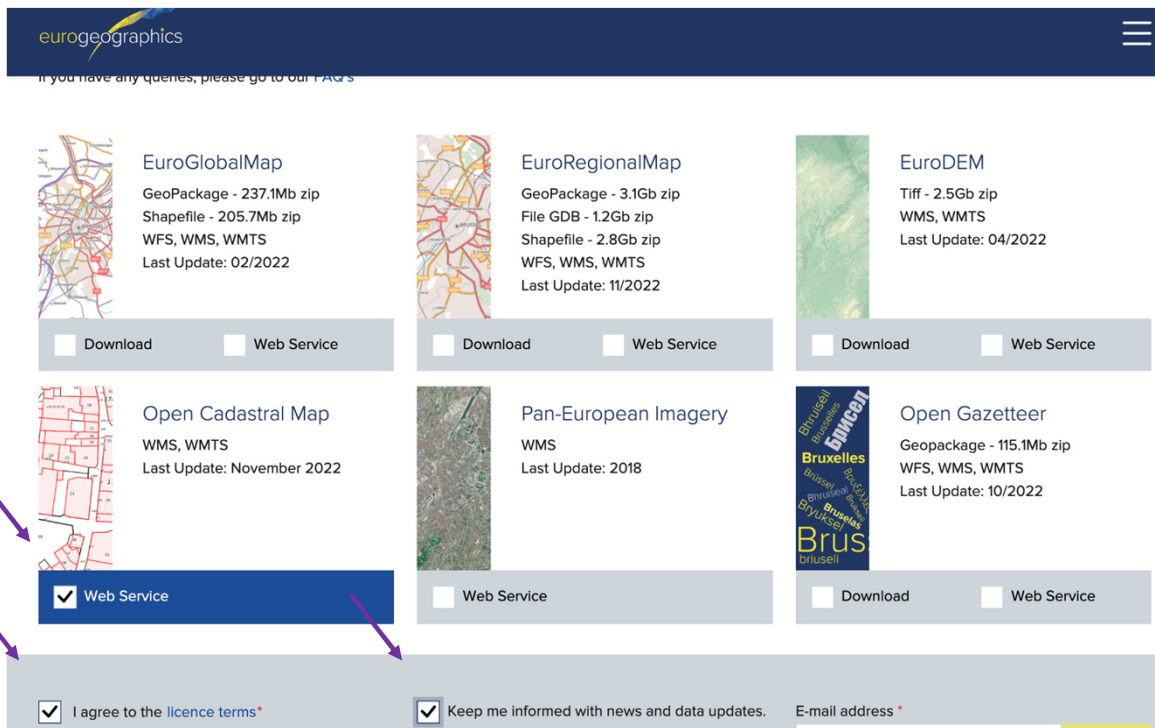
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OCM current view and features
View Service

The user receives an email with a unique access token and the url to the available WMS view services
https://www.mapsforeurope.org/maps/wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=GetCapabilities&token
The url, when imported into a GIS software, provides view to all countries' available datasets

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https://www.mapsforeurope.org/access-data

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OCM info & Attributions

https://www.mapsforeurope.org/datasets/cadastral-all
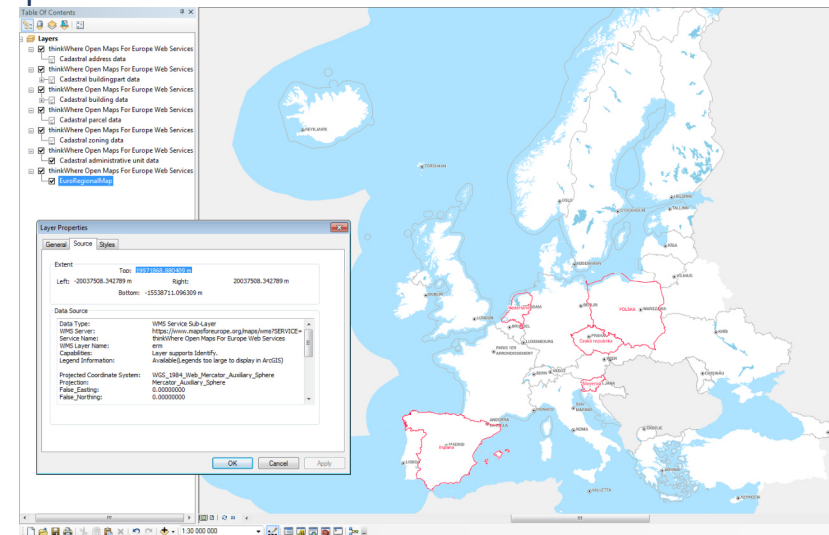
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Themes

Addresses, Administrative Units, Buildings, Cadastral Parcels

Scales

Administrative Units national to municipal
Cadastral Parcels / zones from 1:100 - 1:10000
Buildings 1:100 - 1:10000
Addresses 1:100 - 1:2000

Coordinate System

Decimal degrees ETRS89-WGS84

Available Formats

Web Services

WMS, WMTS

Dataset Documentation

Attribution Document

Attribution statement

The Open Cadastral Map web service is licenced through the EuroGeographics Open licence. The Open Cadastral Map web service is owned by all contributing National Mapping and Cadastral Agencies listed below, and collectively represented by © EuroGeographics

Country	Member	Attribution Statement
Czech Republic	Czech Office for Surveying, Mapping and Cadastre	© Český úřad zeměměřický a katastrální (CUZK)
Denmark	Danish Ministry of Energy, Utilities and Climate / Agency for Data supply and Efficiency	© Energi-, forsynings- og klimaministeriet / Styrelsen for Dataforsyning og Effektivisering (SDFE)
Netherlands	Cadastre, Land Registry and Mapping Agency, The Netherlands	© Kadaster (KADASTER)
Poland	Head Office of Geodesy and Cartography, Poland	© Head Office of Geodesy and Cartography (GUGIK)
Slovenia	Surveying and Mapping Authority of the Republic of Slovenia	© Geodetska uprava Republike Slovenije (GU)
Spain	General Directorate for the Cadastre, Spain	© Dirección General del Catastro (DGC)
Spain	National Geographic Institute Spain	© National Geographic Institute (NGI)

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OME 2 – Open Cadastral Map (OCM) project

Duration of the project: 3 years

Project tasks:

- Continue the operation of the Open Maps for Europe platform

- Expand its data and functionalities both for the countries already on the map and for the new ones

- Increase OCM's coverage by 4 new countries by 31st Dec 2024 and 5 additional countries by 31st Dec 2025

- Increase the harmonisation of the access to cadrastral data

  o Document cadastral data
  o Develop user-oriented description of the datasets offered by OCM
  o Metadata Quality Assurance (**F**indability **A**ccessibility **I**nteroperability **R**eusability)

Note: *The layers of the OCM are those provided by NMCAs contain the authoritative information that shows legal or official boundaries. No cross-border automated edge-matching procedure applies.*

- The potential for edge-matching handling will be investigated

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OME 2 – Open Cadastral Map (OCM) project (cont'd)

Duration of the project: 3 years

Project tasks:

- Enhance further the awareness of the Open Cadastral Map and its usefulness to cadastral communities

- Develop a long term pan-European strategy in delivering cadastral data.
  - o specifying common deliverables and
  - o applying standardisation approaches in order to homogenise datasets that are going to be integrated in the OCM.

- Develop guidelines about best practices for cadastral agencies and users

- Identify current and future OCM users (public and private organizations, companies and citizens), as well as, related needs.

National Cadastral Agencies' approval and engagement are essential for the project's future operation and further improvement.

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Prerequisites for incorporating data in the OCM

- Availability of the Cadastral Parcel Dataset

- Compliance with the INSPIRE Directive's specifications
  - *Data*
    https://inspire.ec.europa.eu/id/document/tg/cp
    https://inspire.ec.europa.eu/data-model/approved/r4618-ir/html/
    https://inspire.ec.europa.eu/schemas/
  - *Metadata*
    Technical Guidance for the implementation of INSPIRE dataset and service metadata based on ISO/TS 19139:2007

- No restrictions on public access and use for the provided data
  Datasets available for reuse under the conditions of the Creative Commons BY 4.0 license or any equivalent or less restrictive open license

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Nice to have for incorporating data into the OCM project

Download Service :

INSPIRE ATOM Feed Service with a gml in a zip file available for download

https://inspire.ec.europa.eu/documents/technical-guidance-implementation-inspire-download-services

Dataset format :

GML format & INSPIRE endorsed Schemas

https://inspire.ec.europa.eu/schemas/

All the rest of the Open Cadastral Map themes

- Administrative Units
- Buildings
- Building Parts
- Addresses

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Some requirements are easy to achieve

In case you want to participate but you think your data don't meet the requirements.
We encourage you to contact us to discuss further details.
Examples:

- If datasets are in other formats rather than in gml

   Transformation might be feasible through simple programming

   Or easily accessible transformation tools

- If datasets are available for download but not via INSPIRE ATOM Feed Service
   The implementation of INSPIRE ATOM Feed Service is not so complex
   The ATOM FEED must follow INSPIRE Download Services Technical Guidance

   https://inspire.ec.europa.eu/documents/technical-guidance-implementation-inspire-dow

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What makes OCM an important project

- Provides pan-European cadastral data access from a single point and addresses the challenge of
  - o finding
  - o easily accessing and
  - o licensing authoritative and up-to-date pan-European high-value geospatial data.

  Note: *Whilst EuroGeographics update the Open Cadastral Map every six months, the data from the*

  Cadastral Agency may be updated on a different frequency cycle.

- Saves users time, effort and resources by providing harmonized data from multiple countries through one central portal.

- Demonstrates how demand for geospatial information in all common data spaces of the European Strategy for Data can be met.

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Why it's important to participate

The OCM aims to :

- **provide** users with a simplified and harmonised web service of the INSPIRE themes Cadastral Parcels (CP), Buildings (BU), Addresses (AD) and Administrative Units (AU).

- **establish** a unified pan-European cadastral map

- **constitute** a fundamental layer of authoritative data in Europe (High Value Datasets).

- **satisfy** the everyday needs of a wide spectrum of users

- **support** NMCAs in implementing rules for the Open Data by re-using OME2 techniques nationally and sharing good practices.

- **increase NMCAs' prominence** as key authoritative data providers in Europe

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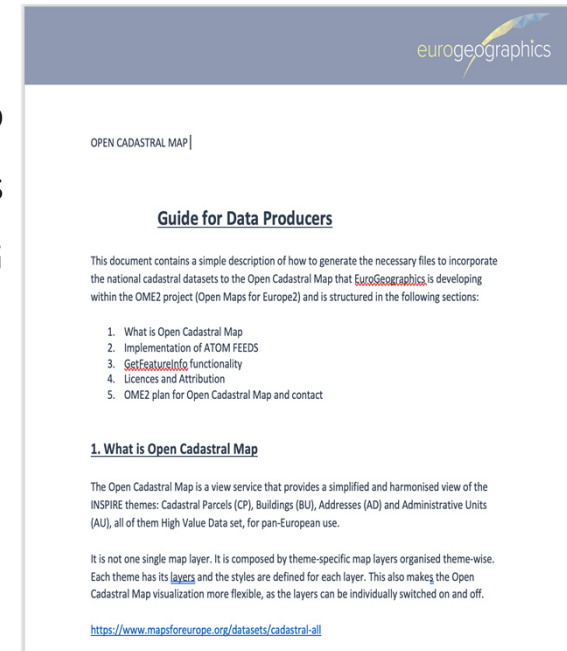# Find out more about the OCM and Get involved

- **Guide for Data Producers:**

  An informative document describing how to generate the necessary files to incorporate your country's national cadastral datasets to the Open Cadastral Map is developed within the OME2 project and will be distributed to participating EG members

- **Eurogeographics Informational Webinar on June 21st**

  The Work Package 6 team of the OME 2 project will:

  - Give a presentation on the technical and procedural aspects of the project
  - Demonstrate the currently available features on the OCM
  - Provide answers to your questions

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OPEN CADASTRAL MAP

Guide for Data Producers

This document contains a simple description of how to generate the necessary files to incorporate the national cadastral datasets to the Open Cadastral Map that EuroGeographics is developing within the OME2 project (Open Maps for Europe2) and is structured in the following sections:

1. What is Open Cadastral Map
2. Implementation of ATOM FEEDS
3. GetFeatureInfo functionality
4. Licences and Attribution
5. OME2 plan for Open Cadastral Map and contact

1. What is Open Cadastral Map

The Open Cadastral Map is a view service that provides a simplified and harmonised view of the INSPIRE themes: Cadastral Parcels (CP), Buildings (BU), Addresses (AD) and Administrative Units (AU), all of them High Value Data set, for pan-European use.

It is not one single map layer. It is composed by theme-specific map layers organised theme-wise. Each theme has its layers and the styles are defined for each layer. This also makes the Open Cadastral Map visualization more flexible, as the layers can be individually switched on and off.

https://www.mapsforeurope.org/datasets/cadastral-all

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Find out more about the OCM and Get involved

Contact us

If you need more information, please feel free to contact us either at EuroGeographics Head Office

- Victoria Persson, e-mail: victoria.persson@eurogeographics.org

 or the WP6 team members of

the Hellenic Cadastre

- Hara Papadaki, e-mail: hpapadak@ktimatologio.gr

the Spanish Cadastre

- Amalia Velasco, e-mail: amalia.velasco@catastro.hacienda.gob.es

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Thank you for your attention!

Hara Papadaki – Hellenic Cadastre / Geospatial Information Directorate

Amalia Velasco – Spanish Directorate General for Cadastre

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