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/

Datasets

- EuroRegionalMap
  Provides multi-themed topographic open data at 1:250,000 scale

- EuroDEM
  EuroDEM is a 1:100,000 scale digital elevation model providing height and
  slope data

- Open Cadastral Map
  A single place to find European Cadastral map data

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The Open Cadastral Map

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.
## OCM current view and features

### Layers Visibility

<table>
<thead>
<tr>
<th>Map Scale</th>
<th>Visible Layers</th>
<th>Labeled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: 2,500,000</td>
<td>Administrative Units / AUHierarchyLevel /1st Order</td>
<td>Yes</td>
</tr>
<tr>
<td>1:1,000,000</td>
<td>Administrative Units / AUHierarchyLevel/2nd Order</td>
<td>Yes</td>
</tr>
<tr>
<td>1:100,000</td>
<td>Administrative Units / AUHierarchyLevel/3rd Order</td>
<td>Yes</td>
</tr>
<tr>
<td>1:10,000</td>
<td>Administrative Units / AUHierarchyLevel/3rd Order</td>
<td>Yes</td>
</tr>
<tr>
<td>1:5,000</td>
<td>Administrative Units / AUHierarchyLevel/4th Order</td>
<td>Yes</td>
</tr>
<tr>
<td>1:2,500</td>
<td>Administrative Units / AUHierarchyLevel/4th Order</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Map Scales
- Scale 1:2,000,000
- Scale 1:100,000
- Scale 1:10,000
- Scale 1:5,000
- Scale 1:1,000
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.
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.
OCM info & Attributions

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

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

<table>
<thead>
<tr>
<th>Country</th>
<th>Member</th>
<th>Attribution Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Czech Republic</td>
<td>Czech Office for Surveying, Mapping and Cadastre</td>
<td>Český úřad zeměměřický a katastrální (CUZK)</td>
</tr>
<tr>
<td>Denmark</td>
<td>Danish Ministry of Energy, Utilities and Climate / Agency for Data supply and Efficiency</td>
<td>Energi-, forsynings- og stilministeriet / Styrelsen for Dataforsyning og Effektiviserings (SFDE)</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Cadastre, Land Registry and Mapping Agency, The Netherlands</td>
<td>Kadaster (KADASTER)</td>
</tr>
<tr>
<td>Poland</td>
<td>Head Office of Geodesy and Cartography, Poland</td>
<td>Head Office of Geodesy and Cartography (GUGIK)</td>
</tr>
<tr>
<td>Slovenia</td>
<td>Surveying and Mapping Authority of the Republic of Slovenia</td>
<td>Geodetska uprava Republike Slovenije (GU)</td>
</tr>
<tr>
<td>Spain</td>
<td>General Directorate for the Cadastre, Spain</td>
<td>Dirección General del Catastro (DGC)</td>
</tr>
<tr>
<td>Spain</td>
<td>National Geographic Institute Spain</td>
<td>National Geographic Institute (NIGI)</td>
</tr>
</tbody>
</table>
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 cadastral data
  - Document cadastral data
  - Develop user-oriented description of the datasets offered by OCM
  - Metadata Quality Assurance (Findability Accessibility Interoperability Reusability)

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
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.
  - specifying common deliverables and
  - 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
  o Data
    https://inspire.ec.europa.eu/schemas/
  o 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
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

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
What makes OCM an important project

- Provides pan-European cadastral data access from a single point and addresses the challenge of
  - finding
  - easily accessing and
  - 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.
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
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 OME2 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
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
Thank you for your attention!

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Amalia Velasco – Spanish Directorate General for Cadastre

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