









Lolonis-Papadaki: Handling data quality issues in the OCM for Europe context 5th International Workshop on SDQ, Athens, Nov. 20-21, 2025



Open Cadastral Map (OCM)



Open cadastral map of a suburb in Athens, Greece Source: https://www.mapsforeurope.org/explore-map/cadastral-all



To develop a single point of accessing cadastral map data at a pan-European level

Themes

- Cadastral parcels
- Buildings
- Administrative Units
- Addresses

Consortium

- EuroGeographics AISBL (BE)
- Institut National de L' Information Geographique et Forestiere (FR)
- Dienst voor Het Kadaster en de Openbare Registers(NE)
- Institut Geographique National (BE)
- Hellenic Cadastre (GR)
- Ministerio de Hacienda Y Funcion Publica





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OCM Explore Map site: Status in 2025 (Current) Link: https://www.mapsforeurope.org/explore-map/cadastral-all

Actions undertaken within the Open Maps for Europe 2 (OME2)

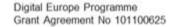
- Sustain the new production
- **Enhance production process** (getfeature functionality, additional data)
- **Increase coverage** (9 more countries by 2025)
- **Increase harmonization** of accessing cadastral data (OCM): Documentation of OCM data, Metadata Quality Assurance
- **Promote Open Cadastral Maps** (OCM) to EuroGeographics members and external audiences and develop a long-term strategy for sustaining and developing OCM





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OCM status in 2025 (Current)

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



Progress of the OCM development

2023	2024	2025
Czech Republic	Greece	Belgium
Netherlands	Latvia	Croatia
Slovenia	Luxemburg	Estonia
Spain	Slovakia	Ireland
Poland		Switzerland

Denmark

Current status: 15 countries in the OCM site

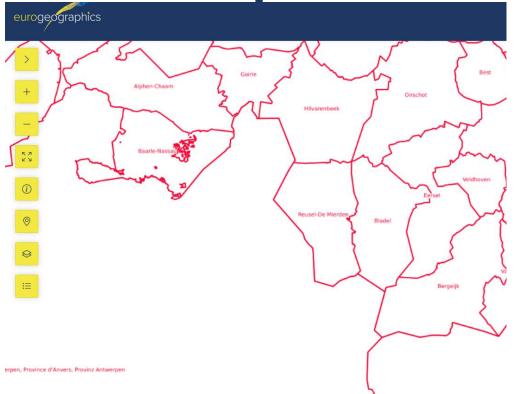




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Excerpt of the OCM On the Belgium-Netherlands border Link: https://www.mapsforeurope.org/explore-map/cadastral-all



Issues encountered in the OCM data integration

- The OCM data integration is based on the INSPIRE data structure and schema
- The INSPIRE Directive allows for:
 - Variations in the implementation
 - Different approaches for data formats (e.g. ESRI FGDB as opposed to gml) or download services (e.g. OGC WFS as opposed to ATOM Feed)
- The OCM production process imposed additional requirements
 - Required the INSPIRE endorsed gml schema (*.zip)
 - Required the INSPIRE ATOM Feed Service for download
 - Required coordinates to be in the ETRS '89





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Open Cadastral Map (OCM)



Excerpt of the OCM On the Belgium-Luxembourg border Link: https://www.mapsforeurope.org/explore-map/cadastral-all

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Quality control checks of the OCM data

- ATOM structure:
 - Logical consistency: ATOM feed indicates Cadastral Reference System (CRS) is based on ETRS89
 - Logical consistency: Download link points to a (*.zip) file
- For each theme:
 - Logical consistency: data format. Unzipped files should be GML
 - Logical consistency: format consistency. GML match INSPIRE schema
 - Logical consistency: Correct CRS. GML files are in a CRS based on ETRS89
 - Temporal consistency: objects with same begin and end date were removed in some datasets.
- Once the data are loaded, visual inspection is carried out to check whether the data integration is OK in the service.
- Since cadastral data are authoritative, no changes due to overlaps or other issues in geometry are made.





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encountered

and

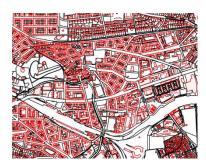
issues have been

the OCM project has achieved its

overcome

goal.

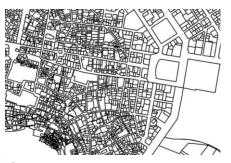
Conclusions



Czech Republic



Denmark



Greece

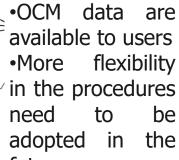


Latvia



Luxemburg







Netherlands



Poland



Slovakia



Slovenia



Spain





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