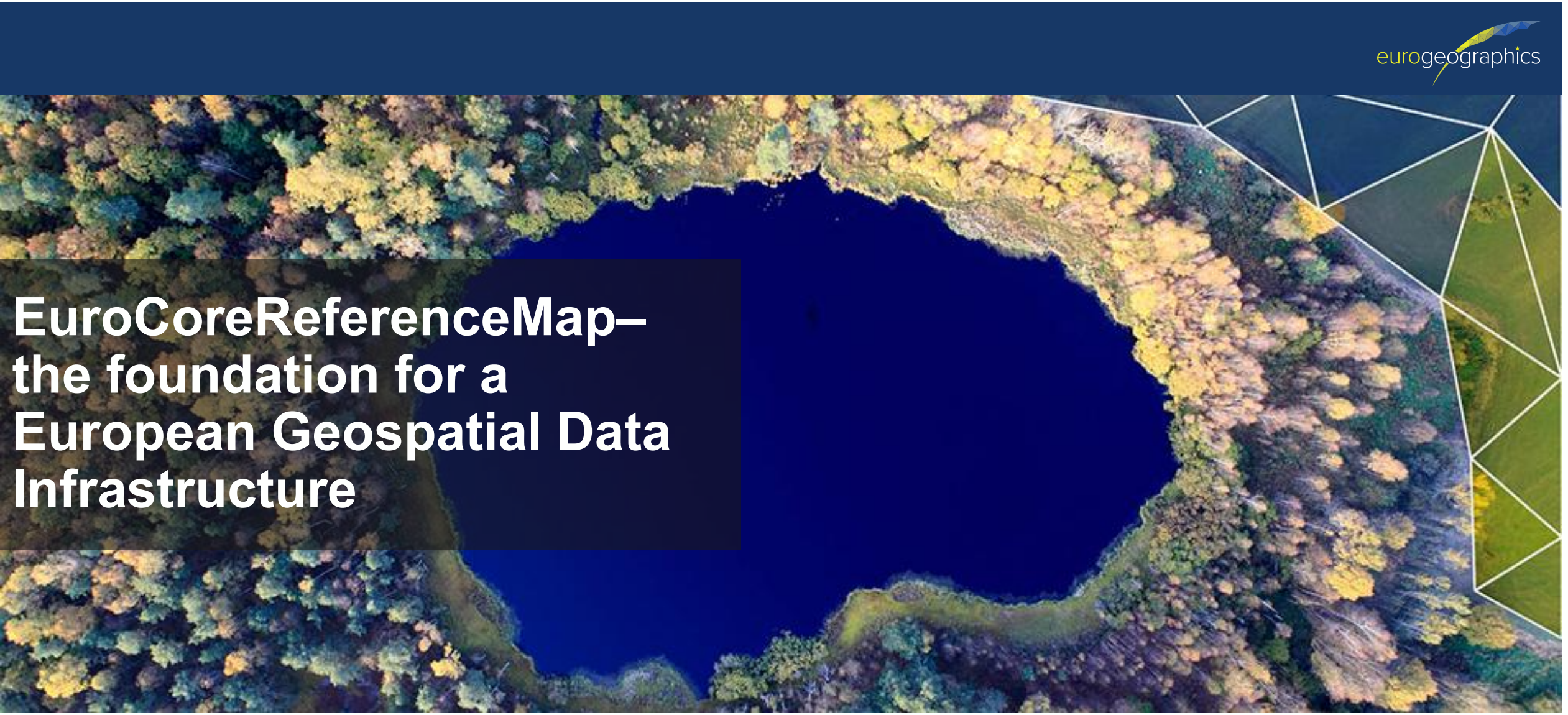


EuroCoreReferenceMap– the foundation for a European Geospatial Data Infrastructure

Angela Baker
Head of Operations and Data
EuroGeographics

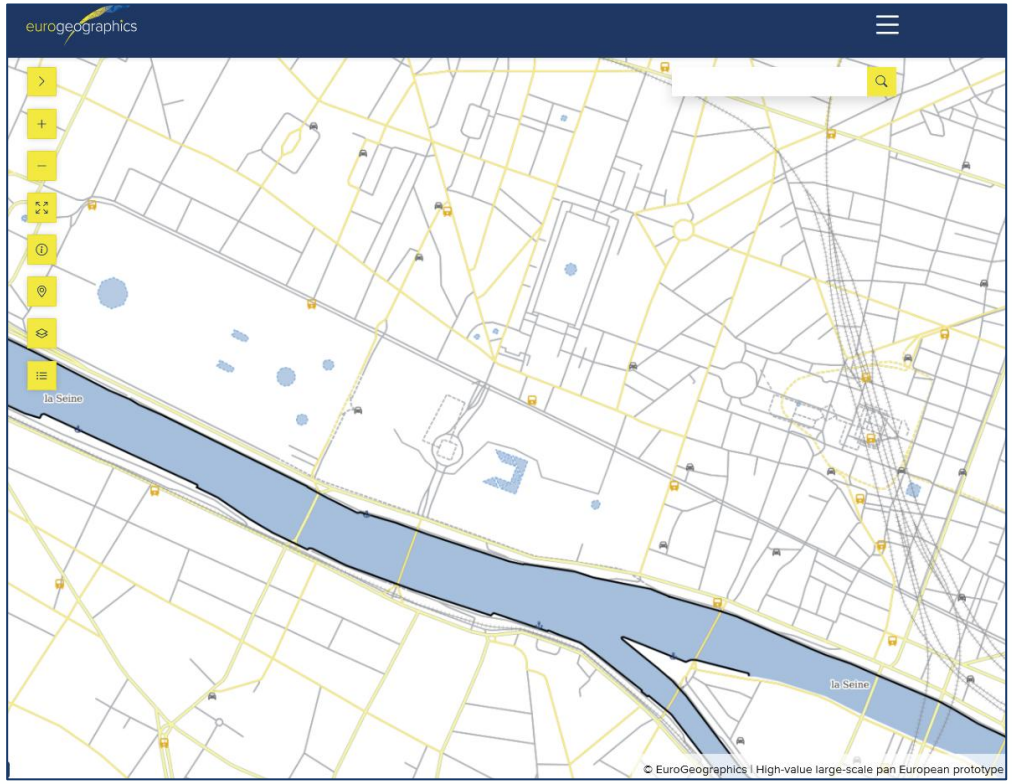
OME2: A foundation for future pan-European high-value datasets

OME2 has delivered:

- A new production process and technical specification for free-to-use-high-value data from multiple European countries under a single open licence.
- A high-value large-scale prototype dataset covering 10 countries.
- Enhancements to the five existing Open Maps For Europe datasets, including the pilot Open Cadastral Map.
- Infrastructure, process and tools as to achieve the long-term sustainability of authoritative pan-European geospatial data.

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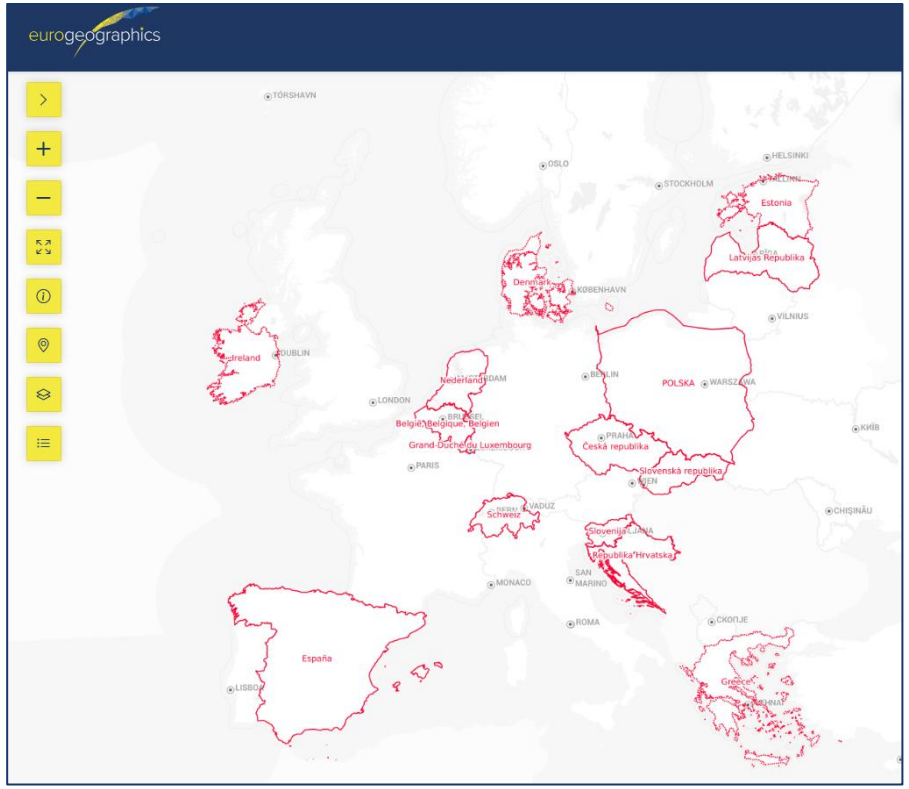
OME2: outputs HVLSP



- 10 countries
  - AT, BE, CZ, DK, FI, FR, LU, NL, ES, CH
- 3 themes
  - ADMIN, TRANS, HYDRO
- Open data
- **Web Services;** WFS, WMS, WMTS
- **Download;** Geopackage (zip)
- Tools
  - Generalisation
  - Quality
  - Edge Matching
  - Harmonisation

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OME2: outputs OCM



- 15 countries
  - BE, HR, CZ, DK, EE, GR, IE, LU, LV, NL, PL, ES, SI, SK, CH
- Admin Units, Cadastral parcels, Buildings, Addresses
- Open data & links to data providers on the portal
- WMS, WMTS
- OCM Basemap
- Pan European Cadastral Data Strategy (Dec25)

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OME2: Successfully translated EU rules for high-value geospatial information into useable cross-border data

- Rules on High-Value Data
- Open Data Directive
- EU Data Strategy - Data Spaces
- INSPIRE Directive
- UNGGIM: Europe Core Data Recommendations





Innovation in data access, integration, and harmonisation

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Beyond OME2 : Continuing to meet user needs

DG MOVE: Military mobility and transport infrastructure

> High-quality **authoritative transport network data** at pan-European level is crucial to support DG MOVE's work around Military mobility, recharging infrastructure for electric vehicles, and other policy areas.

Frontex: Border control, surveillance and security

> Access to **large-scale authoritative administrative boundary data** is essential for border control, surveillance and security.

EEA: Integration into Copernicus data and products

> Our key wish is for **streamlined access to harmonised, authoritative geospatial data** across Europe, ensuring its timely and seamless integration into Copernicus data and products. Strengthening this partnership through **innovation in data access, integration, and harmonisation** will maximise its impact in supporting European and global sustainability goals.

OME2 Co-funded by the European Union
Digital Europe Programme
Grant Agreement No 101100625

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OME2

Production process and prototype for harmonised large-scale data

Aligned to EU Policy objectives and UN core geospatial data recommendations

Foundation for future pan-European high-value datasets

EU funded Project concluded 31st Dec 2025

ECRM



Self funded project Jan 1st 2026 – Dec 31st 2028

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ECRM Consortium

We have the expertise and are investing in the development …

EuroGeographics

- Project management and coordination
- Engagement of stakeholders
- Communication and dissemination

Federal Agency for Cartography and Geodesy

- Interaction with data producers
- Data production and management of yearly versions

French National Institute of Geographic and Forest Information

- Technical coordination
- Maintenance and development of tools and the production platform

Kadaster Netherlands

- Maintenance and development of quality control and generalization tools

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Work Packages

WP Number	WP Description	WPL
WP1	Project management	EuroGeographics
WP2	Extension Plan	EuroGeographics
WP3	Development of production system (release management, production management system)	BKG
WP4	Technical production management HVLS geospatial data	BKG
WP5	Maintenance & development of large-scale production tools	IGN France
WP6	Maintenance & development of quality and generalisation tooling	Kadaster NL
WP7	Technical data dissemination	IGN France
WP8	Stakeholder engagement, Communication, Licensing and sustainable funding	EuroGeographics

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EuroCoreReferenceMap
A one-of-kind dataset with a unique proposition

The **only high-value large-scale pan-European** dataset:

- Developed through a **unique production process underpinned by national expertise** in integration of core geospatial data.
- Created using **authoritative national data and offering initial EU27+CH coverage** with a vision to use data from all members which cover geographical Europe.
- **Harmonised and edge-matched** to deliver the data that users have said they need and want: administrative boundary, transport network, hydrography.
- **Licensed to end users** to enable as much coverage and data inclusion as possible

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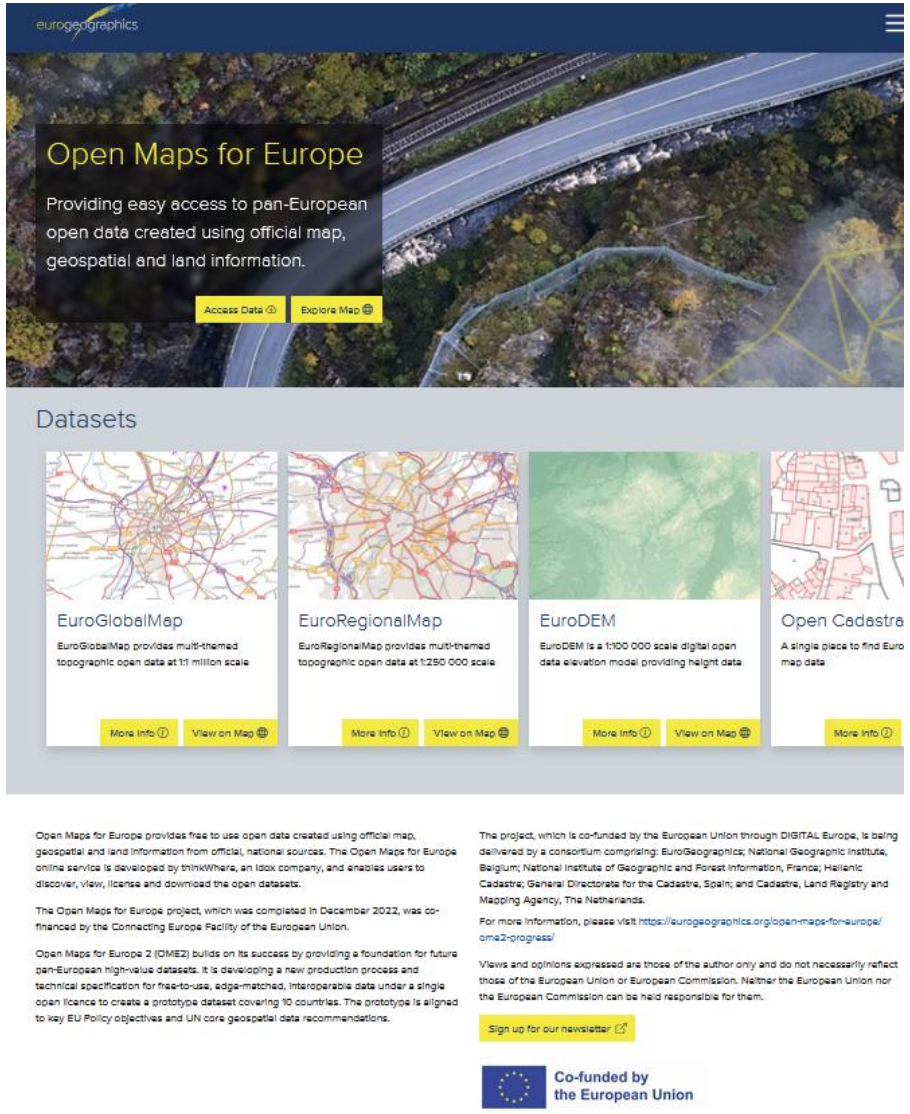
Vision for ECRM

Euro Core Reference Map (ECRM): Creating a new authoritative foundation for cross-border applications in Europe

- **Pan-European coverage (EU27 + X)**: harmonised and edge-matched data across national borders
- **Large-scale (~1:10 000)**: consistent high-resolution topographic information
- **Authoritative data**: trusted official sources from national mapping agencies
- **3 themes:** Admin, Hydro and Trans



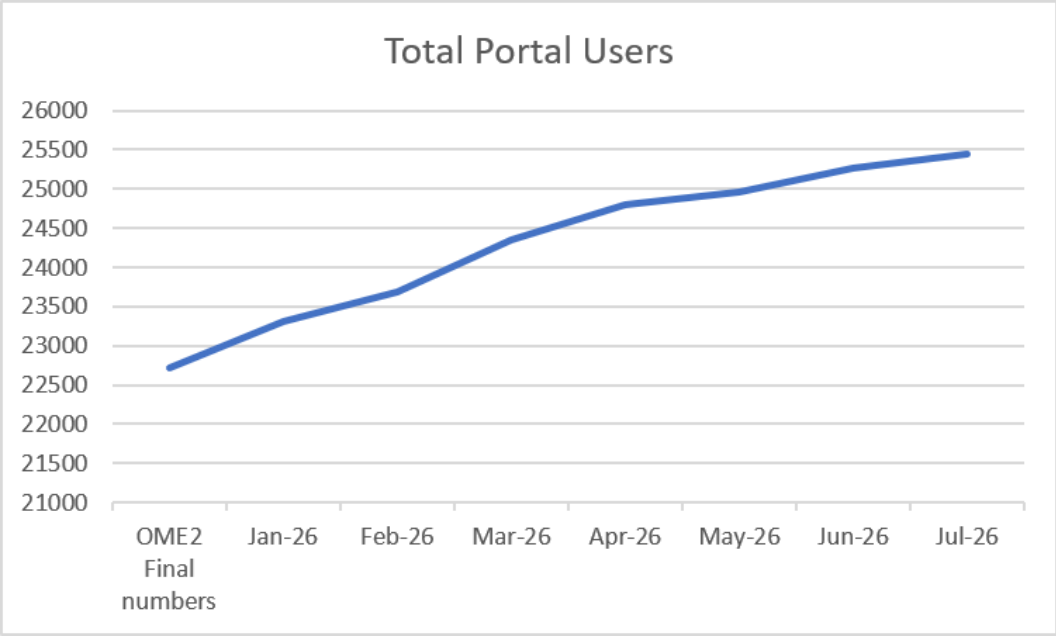
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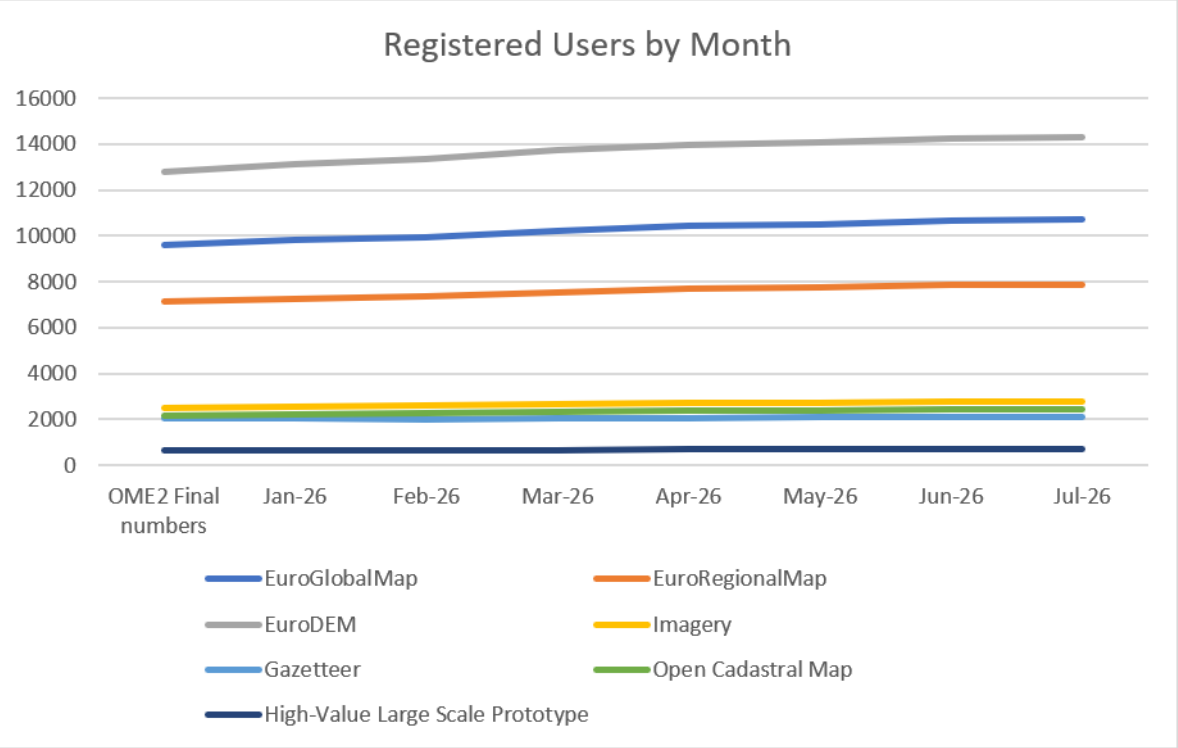


OME portal

- Maintain the portal
- Update the current datasets annually
  - EGM
  - ERM
  - Open Gazetteer
- Maintain other datasets
  - OCM
  - EuroDEM
  - Imagery
  - HVLSP

User Numbers





Total registered users risen to 25436 end of July 2026

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EuroCoreReferenceMap: A one-of-kind dataset with a unique proposition

Official geospatial data – A valuable & trusted sovereign asset for Europe

Context + Clarity = Connections

Enabling cross-border applications

Decisive action
Maximum impact



An essential component of national, European and global critical infrastructure

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Benefits to Members

- Ensures and increases use of members' data by key stakeholders by delivering the edge-matched pan-European dataset they tell us they need.
- Strengthens the credibility and relevance of EuroGeographics and members by delivering the harmonised interoperable trusted pan-European data users want.
- Supports members' capacity-building through exchange of technical expertise and tools.
- Fulfils EU and global requirements with a self-sustaining added value solution to place authoritative pan-European data within wider data ecosystem.
- Extends the unique value proposition of NMCAs – unique production process could be shared with stakeholders so they benefit from members' expertise.

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Thank you

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