

OME – A Success Story

**Victoria Persson,
Project Manager
EuroGeographics**

Overview

- History
- Success
- Challenges

The Story Begins

- 2019 in Brussels
- Members data consolidated and licensed to users for a fee

The Story Begins

Change to open data

- Market change
- Analysis to enable informed decisions
- CEF Project

The Story Begins

Objectives

- Open data licence for ERM and EuroDEM
- Improve and extend products
- Enhanced user interface

The Story Begins

Objectives

- New delivery methods
- Integration with the European Data Portal (EDP)
- Dissemination

Access Data

Please select the datasets you want, and then review and accept the [licence terms](#) and enter your e-mail address. We will send you a download link and/or instructions for connecting to the service.

If you have any queries, please go to our [FAQ's](#)



EuroGlobalMap

GeoPackage - 237.1Mb zip
Shapefile - 205.7Mb zip
WFS, WMS, WMTS
Last Update: 10/2020

☐ Download☐ Web Service

EuroRegionalMap

GeoPackage - 2.9Gb zip
File GDB - 1.2Gb zip
Shapefile - 2.6Gb zip
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Last Update: 04/2021

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EuroDEM

Tiff - 2.5Gb zip
WMS, WMTS
Last Update: 04/2008


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EuroRegionalMap

EuroDEM

[illegible]

Imagery Service

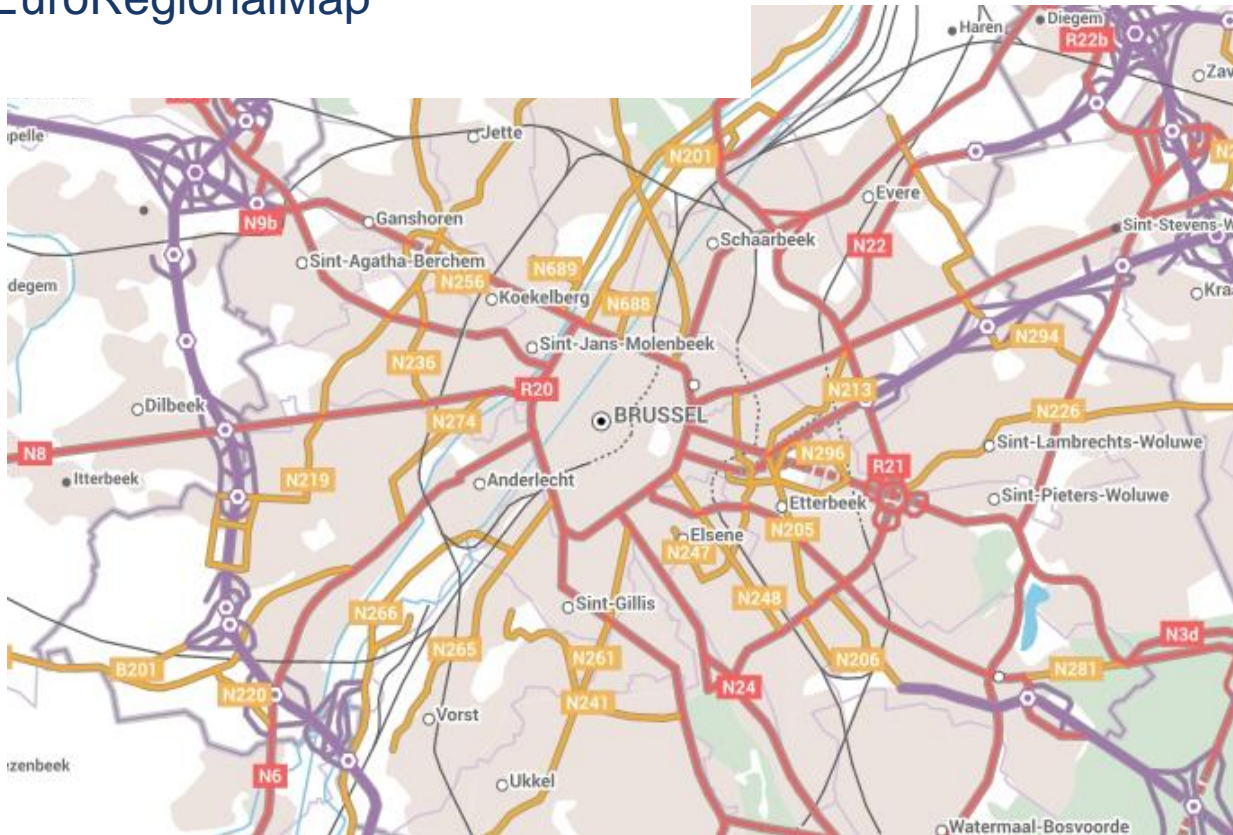
A large, detailed aerial satellite image of a city, likely London, showing a dense urban landscape with a river (the River Thames) winding through it. The image is composed of many small, overlapping satellite tiles, creating a mosaic effect. The city is surrounded by green spaces and fields. The image is presented in a light gray frame.

Open Cadastral Map

The image displays a detailed cadastral map of an urban area. The map features a complex arrangement of building footprints, each outlined in red. These buildings are situated within a grid-like street pattern. The map is presented in a slightly tilted perspective, showing the layout of the urban blocks and the individual lots within them.

Products

EuroRegionalMap



- 1 : 250 000
- Layers:
 - Boundaries
 - Population
 - Transportation Networks
 - Hydrography
 - Geographical names
 - Vegetation
- Updated every year
 - Boundaries and Population every year
 - Transport & Hydro every 2 years
 - Names & Vegetation every 4 years

Products

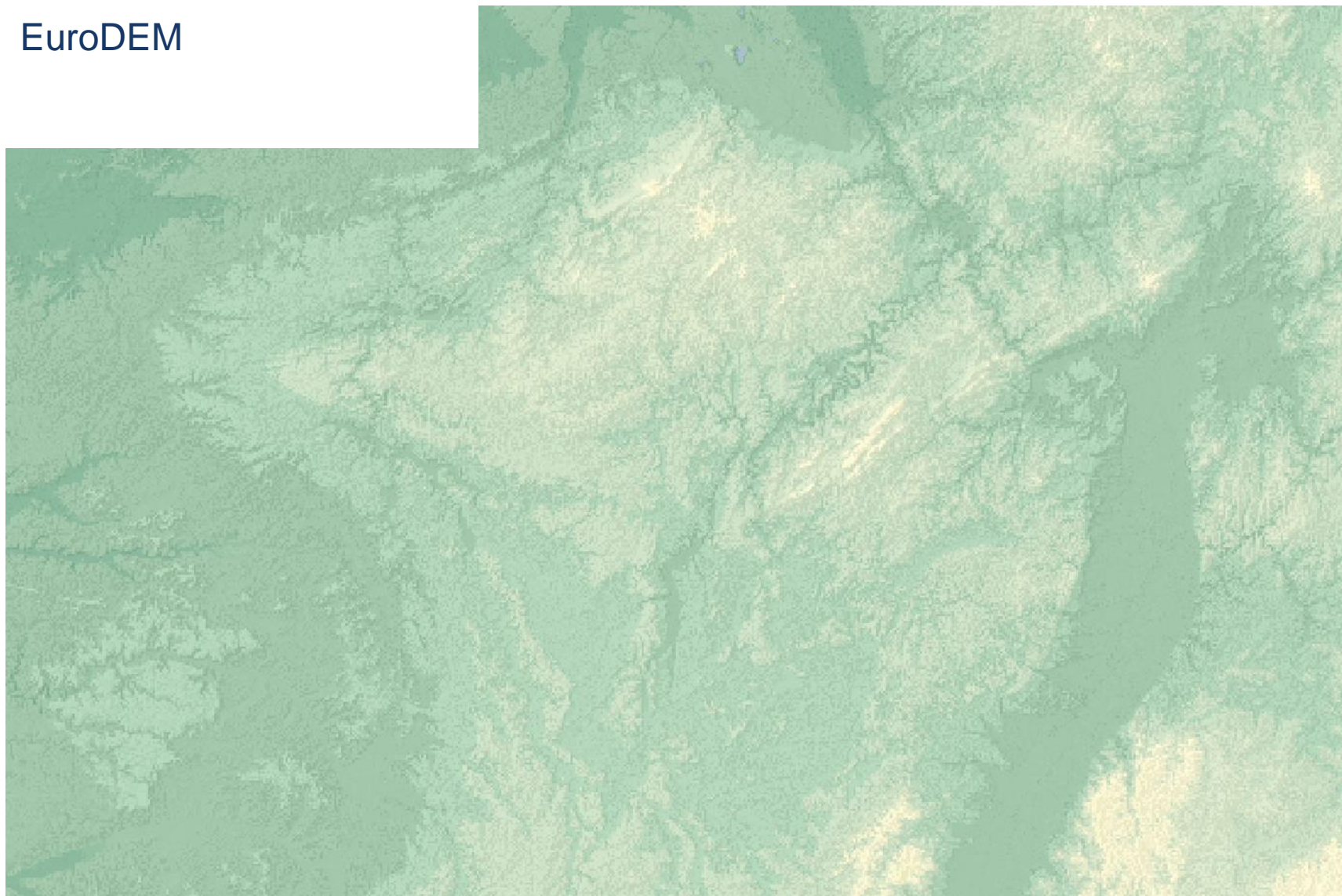
EuroGlobalMap



- 1 : 1 million
- Layers:
 - Boundaries
 - Population
 - Transportation Networks
 - Hydrography
- Updated every year
- Created from ERM and EBM

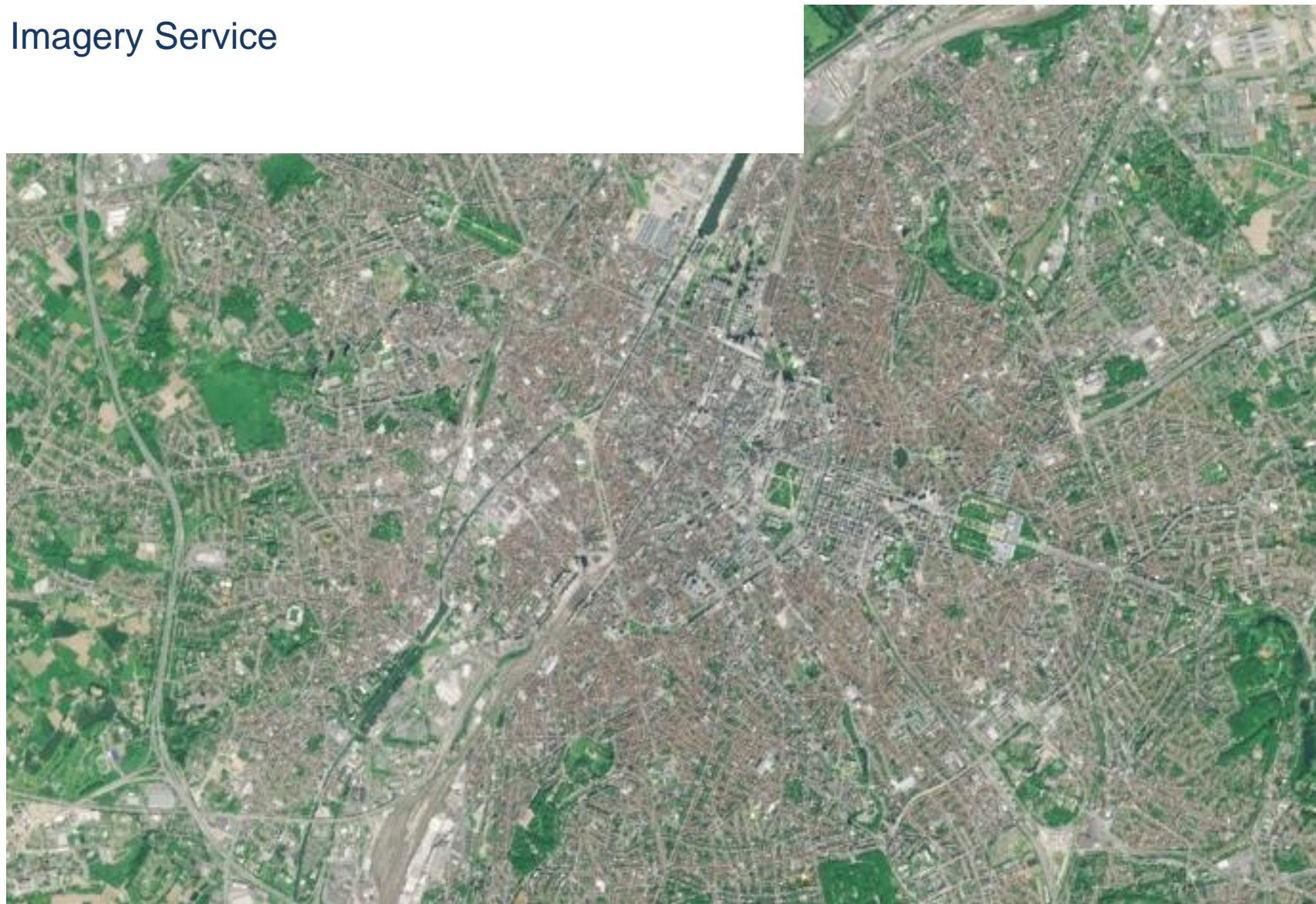
Products

EuroDEM



Imagery Service

Products





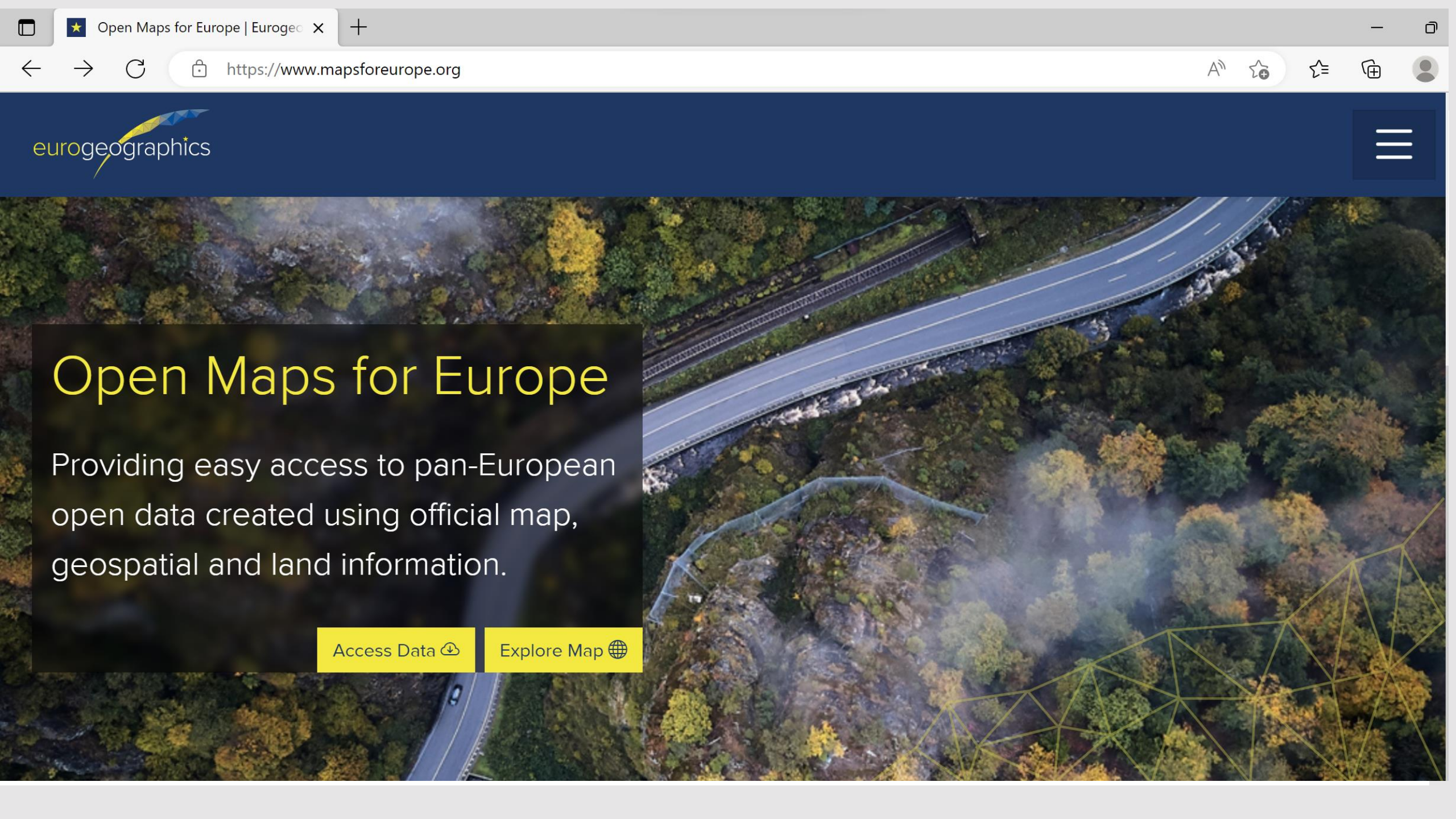
Products

Open Cadastral Map



LIVE DEMO

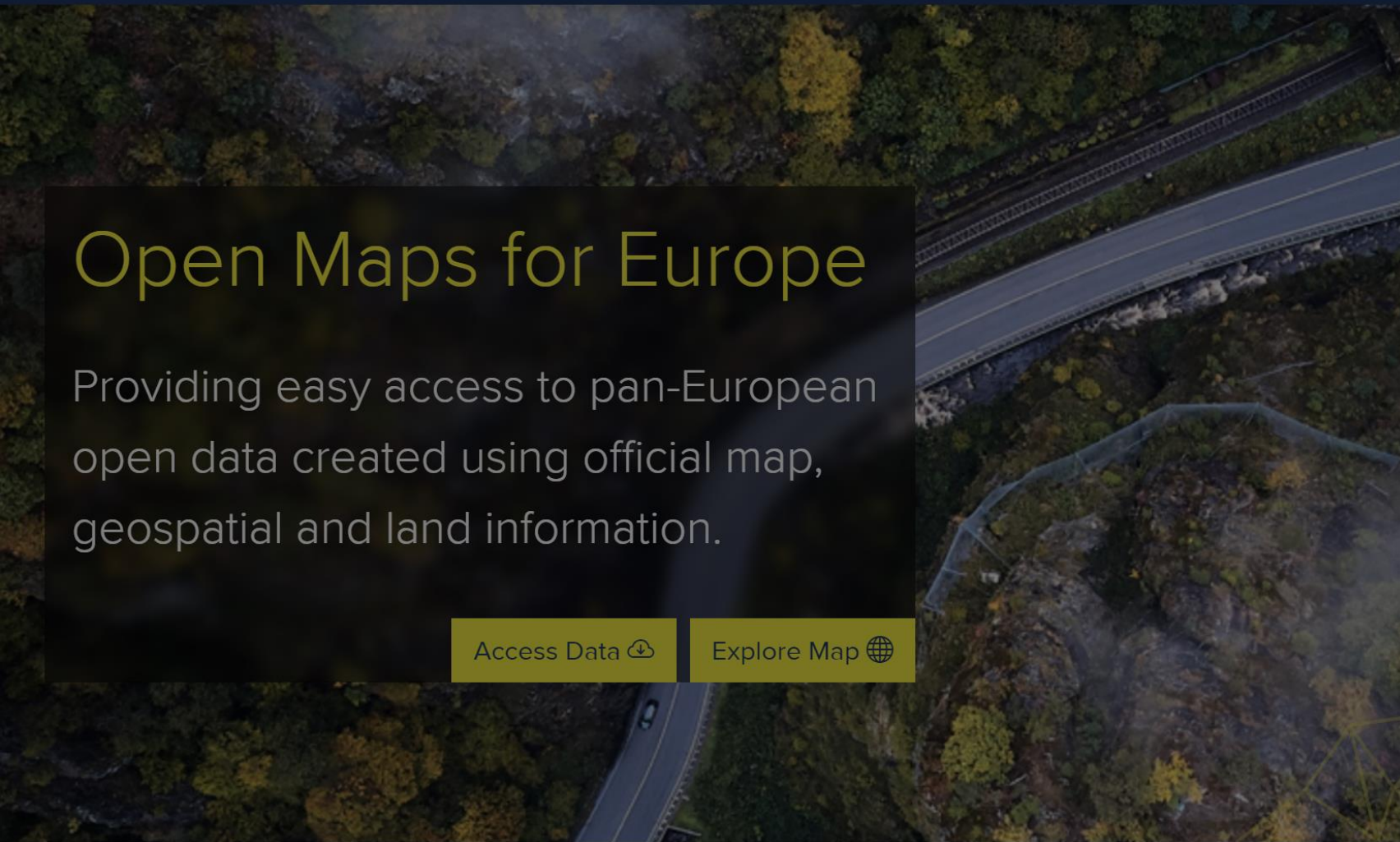




Open Maps for Europe

Providing easy access to pan-European open data created using official map, geospatial and land information.

[Access Data](#)[Explore Map](#)



Providing easy access to pan-European open data created using official map, geospatial and land information.

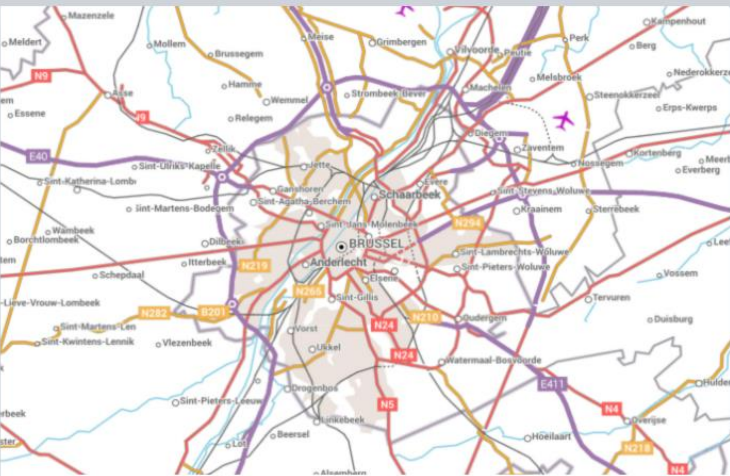
Explore Map 

Datasets

X

Terms & Conditions

Datasets



EuroGlobalMap

EuroGlobalMap provides multi-themed topographic open data at 1:1 million scale

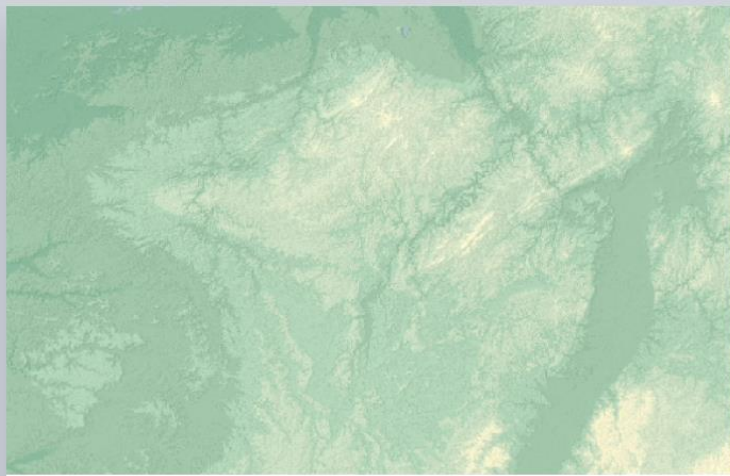
[More Info](#) [View on Map](#)



EuroRegionalMap

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

[More Info](#) [View on Map](#)



EuroDEM

EuroDEM is a 1:100 000 scale digital open data elevation model providing height data

[More Info](#) [View on Map](#)



OpenStreetMap

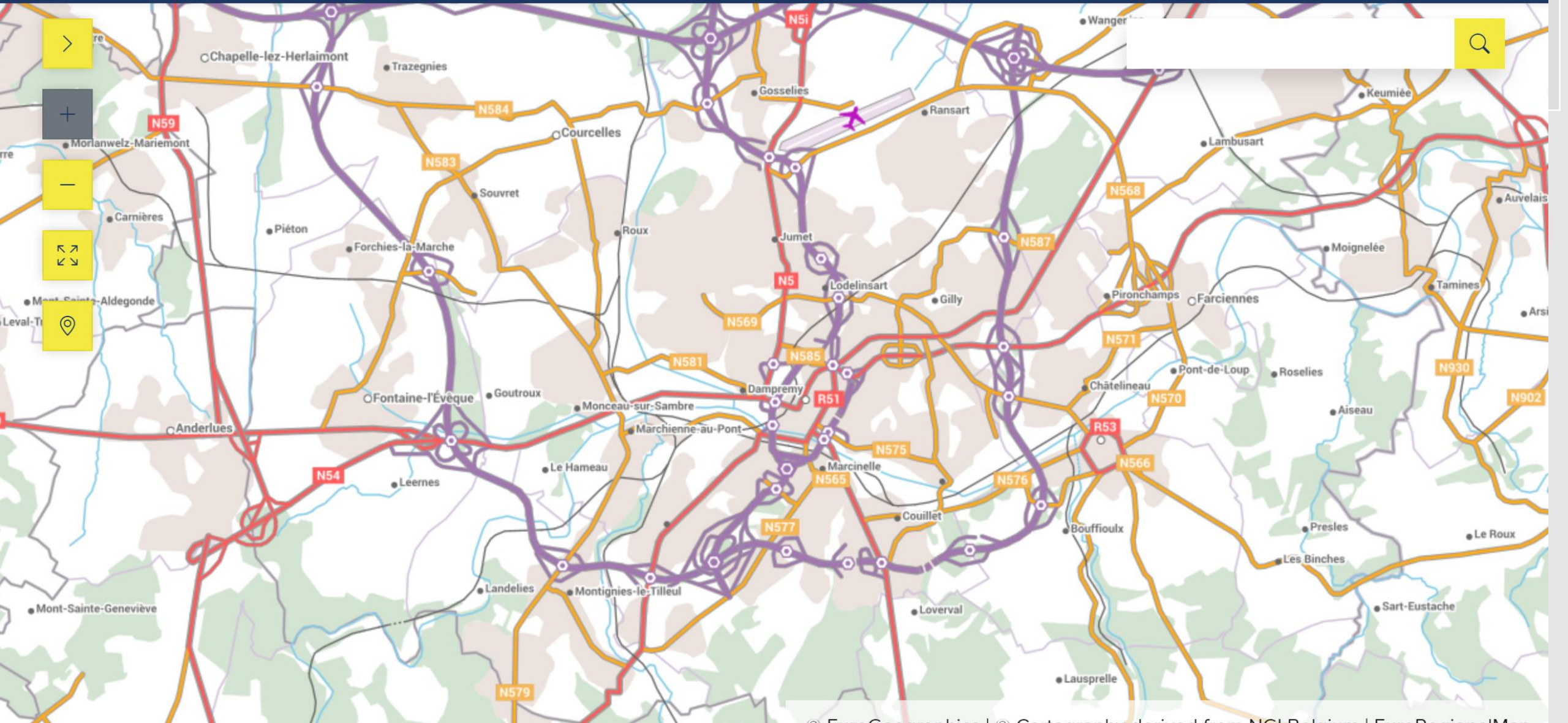
A single map dataset

[More Info](#) [View on Map](#)



https://www.mapsforeurope.org/explore-map/egm-erm-basemap







Available Datasets



Filter by theme or country



Showing 6 of 6 datasets



EuroGlobalMap

EuroGlobalMap provides multi-themed topographic open data at 1:1 million scale

More Info ⓘ

View on Map 🌐

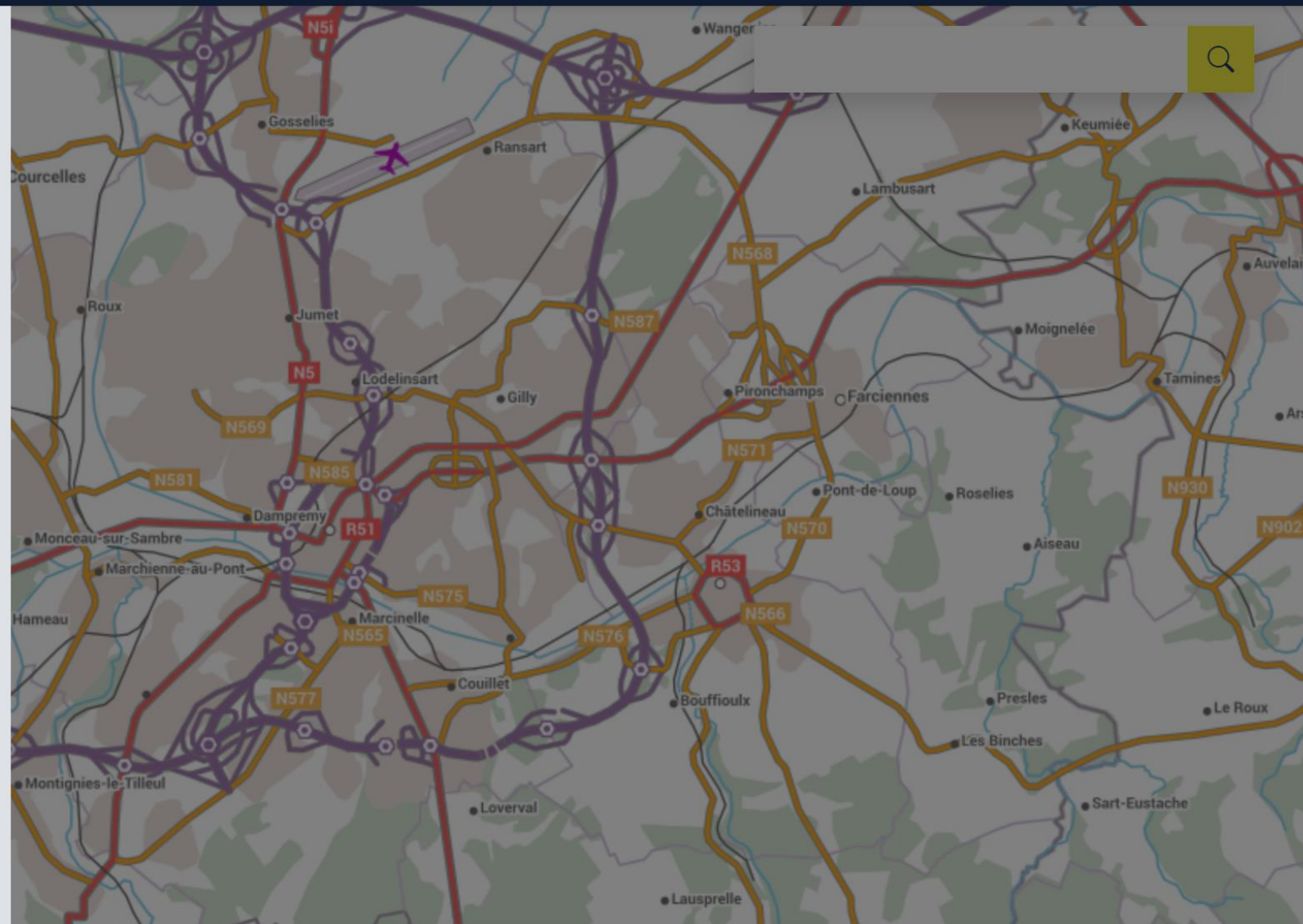


EuroRegionalMap

EuroRegionalMap provides multi-

Access Data ⬇️

Back to top ↑





EuroGlobalMap

[Access Data](#)

[View on Map](#)

EuroGlobalMap is a 1:1 million scale topographic dataset covering 55 countries and territories in the European region.

EuroGlobalMap is perfect for cartographic visualisation across Europe and can enable a wide range of applications from planning, monitoring and network analysis to presenting environmental policies.

Last Update

02/2022

Themes

Administrative Boundaries, Hydrography, Named Location, Settlement, Transportation

Coordinate System

Coverage





EuroGlobalMap

[Access Data](#)

[View on Map](#)

Coordinate System

Decimal degrees ETRS89-WGS84

Available Formats

Web Services

WFS, WMS, WMTS


Download

GeoPackage - 237.1Mb zip

Shapefile - 205.7Mb zip

Dataset Documentation

- [User Guide](#)
- [Technical Specification](#)
- [Lineage](#)
- [Attribution Document](#)
- [Updates](#)

- 
- | | |
|------------------------|------------------|
| Albania | Lithuania |
| Andorra | Luxembourg |
| Austria | Malta |
| Belgium | Martinique |
| Bosnia and Herzegovina | Mayotte |
| Bulgaria | Moldova |
| Croatia | Monaco |
| Cyprus | Montenegro |
| Czechia | Netherlands |
| Denmark | North Macedonia |
| Estonia | Northern Ireland |
| Faroe Islands | Norway |
| Finland | Poland |
| France | Portugal |
| French Guiana | Romania |

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EuroGlobalMap

GeoPackage - 237.1Mb zip
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WFS, WMS, WMTS
Last Update: 02/2022



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Web Service



EuroRegionalMap

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File GDB - 1.2Gb zip
Shapefile - 2.8Gb zip
WFS, WMS, WMTS
Last Update: 11/2022



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Web Service



EuroDEM

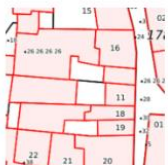
Tiff - 2.5Gb zip
WMS, WMTS
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Web Service



Open Cadastral Map

WMS, WMTS



Pan-European Imagery

WMS



Open Gazetteer

Geopackage - 124.2Mb zip



WFS, WMS, WMTS
Last Update: 02/2022



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Web Service



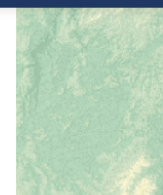
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WFS, WMS, WMTS
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Web Service



Last Update: 04/2022



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Web Service



Open Cadastral Map
WMS, WMTS
Last Update: November 2022



Web Service



Pan-European Imagery
WMS
Last Update: 2018



Web Service



Open Gazetteer
Geopackage - 124.2Mb zip
WFS
Last Update: 11/2022



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Web Service



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ImV1cm9nZW9ncmFwaGljc19yZWdpc3RlcmVkXzMwOTUi.FiXQZQ.eo3XVA9oF_6pINXwQ_oadK6NXwE

Cadastral Address - WMS

https://www.mapsforeurope.org/maps/wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=GetCapabilities&token=ImV1cm9nZW9ncmFwaGljc19yZWdpc3RlcmVkXzMwOTUi.FiXQZQ.eo3XVA9oF_6pINXwQ_oadK6NXwE

Cadastral Address - WMTS

https://www.mapsforeurope.org/maps/wmts?SERVICE=WMTS&VERSION=1.0.0&REQUEST=GetCapabilities&token=ImV1cm9nZW9ncmFwaGljc19yZWdpc3RlcmVkXzMwOTUi.FiXQZQ.eo3XVA9oF_6pINXwQ_oadK6NXwE

Cadastral AdministrativeUnit - WMS

https://www.mapsforeurope.org/maps/wms?SERVICE=WMS&VERSION=1.3.0&REQUEST=GetCapabilities&token=ImV1cm9nZW9ncmFwaGljc19yZWdpc3RlcmVkXzMwOTUi.FiXQZQ.eo3XVA9oF_6pINXwQ_oadK6NXwE

The Success

- Availability
- Quality
- A better Europe

The Success

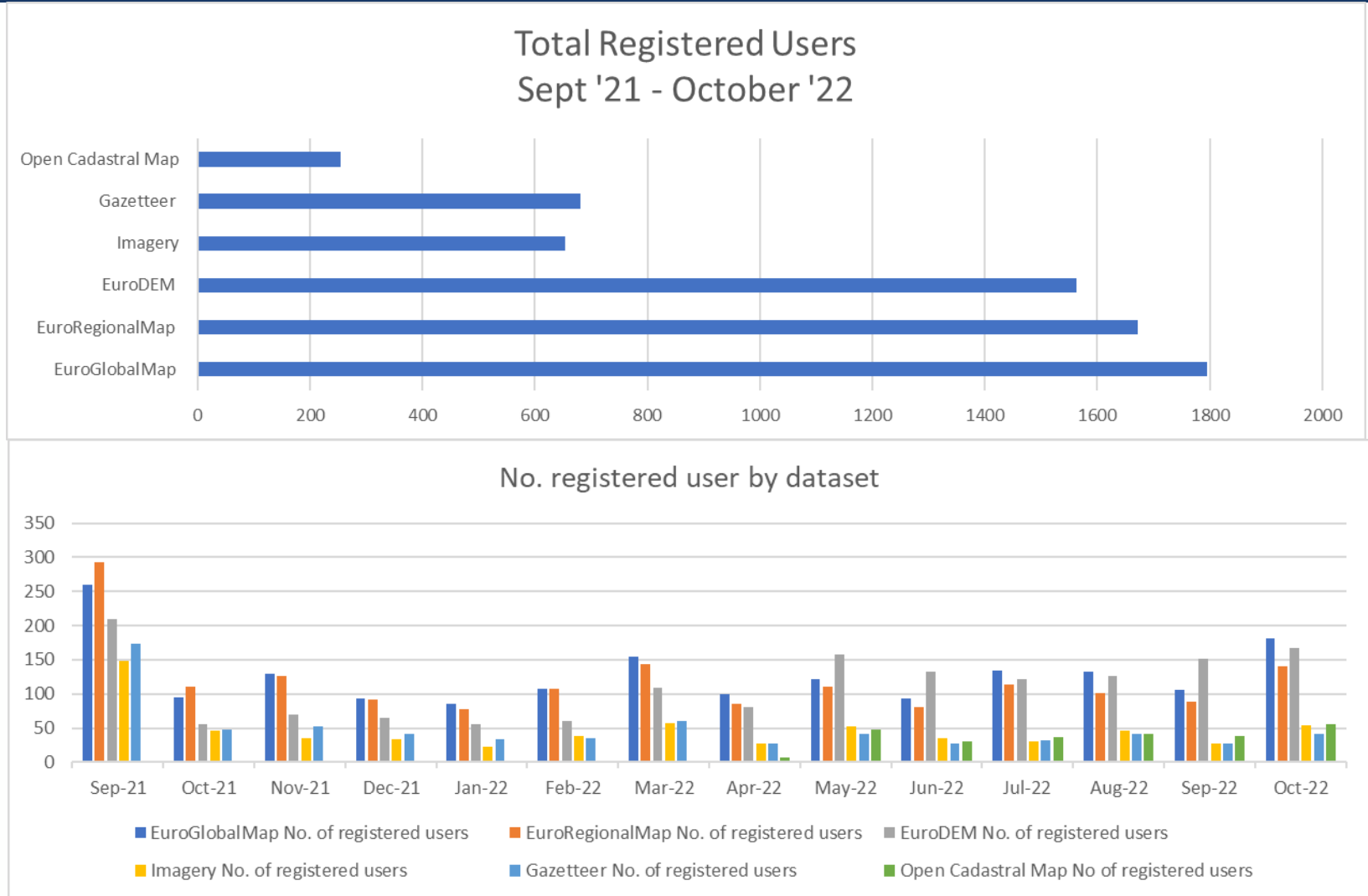
Availability

- User Interface
- Licensing
- Communication

The Success

Availability

- User numbers



The Success

Quality

- Visualization
- QA tool for ERM: Kadaster Netherlands
- Collaborative space for EGM: IGN France

	Validation code	Check	Implemented in ERM Validator 2021 tool?
General Data Delivery	T001	feature classes AIRFLDA, AIRFLDC, AIRFLDP, EXITC, FERRYC, FERRYL, HARBORA, HARBORC, HARBORL, HARBORP, HELIP, INTERCC, LEVELCC, MISAEROP, RAILRDC, RAILRDL, RESTC, ROADL, RUNWAYL	<input checked="" type="checkbox"/>
	T003	coordinate system (GEOGRAPHIC, decimal degrees)	<input checked="" type="checkbox"/>
	T004	map extent ($-25^{\circ} < \text{Lambda} < 40^{\circ}$ and $30^{\circ} < \text{Phi} < 80^{\circ}$)	<input checked="" type="checkbox"/>
	T005	AIRFLDA, AIRFLDC, AIRFLDP, FERRYC, FERRYL, HARBORA, HARBORC, HARBORP, INTERCC, LEVELCC, RAILRDC, RAILRDL, RESTC, ROADL, RUNWAYL must have features	<input checked="" type="checkbox"/>
	T006	Valid Geometry	<input checked="" type="checkbox"/>
Geometric resolution (Tested in projection ETRS89 LAEA)	T007	minimum allowed area size: 60 000m ²	<input checked="" type="checkbox"/>
	T008	minimum allowed distance between vertices of line and area features: 5m	<input checked="" type="checkbox"/>
	T009	minimum allowed length of a line segment: 50m	<input checked="" type="checkbox"/>
	T010	statistics of average distance between vertices	<input type="checkbox"/>
Geometric resolution (Tested in projection ETRS89 LAEA)	T011	The number of HARBORA areas less than 400 000m ²	<input checked="" type="checkbox"/>
	T012	The number of AIRFLDA areas less than 400 000m ²	<input checked="" type="checkbox"/>
	T013	The number of RAILRDL features less than 1600m	<input checked="" type="checkbox"/>
	T014	The number of FERRYL features less than 125m	<input checked="" type="checkbox"/>
Data Model and attributes structure	T015	geometrical definitions (polygon, polyline, point)	<input checked="" type="checkbox"/>
	T016	attributes: complete list, ordering, definition	<input checked="" type="checkbox"/>
	T017	attributes: have valid values (FCSsubtype, F_CODE)	<input checked="" type="checkbox"/>
	T080	attributes: no NULL values	<input checked="" type="checkbox"/>
	T018	correct value of ICC (all FCs)	<input checked="" type="checkbox"/>
	T019	Name attribute: no special character in NAMA1 or NAMA2 (only ASCII)	<input checked="" type="checkbox"/>
	T081	Name attribute: only Unicode character in NAMN1 or NAMN2 (UTF-8)	<input checked="" type="checkbox"/>
	T021	allowed attribute values for AIRFLDA (IKO)	<input checked="" type="checkbox"/>
	T022	allowed attribute values for AIRFLDP (CAA, EXS, FUC, IKO, TEN, TUC, USE, ZV3)	<input checked="" type="checkbox"/>

The Success

A better Europe



- Member cooperation
- Supporting the European Union (EU) Space Strategy and Open Data Directive
- Supporting the work of the United Nations (UN)

The Success

Case Study

- The United Nations (UN)
- Crisis response
 - Geo-hub one-stop-shop for geospatial information for the crisis in Ukraine
- 2030 Agenda for Sustainable Development
- Decision making

Open Maps for Europe

eurogeographics

Providing common and consistent geographies to support the United Nations System

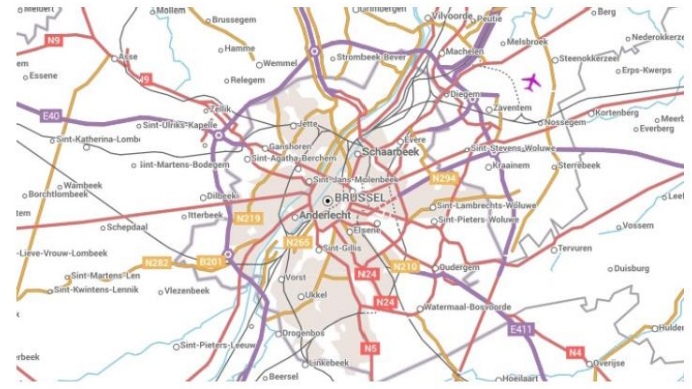
"Open data created using official information from Europe's National Mapping, Cadastral and Land Registration Authorities provides common and consistent geographies to support the United Nations System. We know that we can rely on these Open Maps For Europe and, that in turn, our colleagues can trust the information we provide to them to support decision-making and data action."

Kyoung-Soo Eom
Chief, UN Geospatial Information Section

The Geospatial Information Section of the United Nations, also Co-Secretariat of the Committee of Experts on Global Geospatial Information Management (UN-GGIM) provides data, analysis and visualisation for decision-making and data action. Its vision is the universal use of geospatial information to underpin and support all roles, mandates and operations of the United Nations for a better world.

Challenge

With the Security Council, the office of the Secretary-General and the wider UN system among the users relying on its services, the Geospatial Information Section must be confident that it provides a consistent representation of the world based on common geographies. This is crucial in the context of international crises and monitoring the Sustainable Development Goals. To do this, it needs access to official data from the national authorities responsible for geospatial, cadastral and land registration information and standardised them against a global method and model.



Benefits

- Provides a consistent representation of the world based on common geographies.
- Promotes confidence in the data provided by the UN Geospatial Information Section to colleagues within the UN System and enables it to be easily compared and shared.
- Provides a common operational picture for users across the UN System.
- Delivers official data for analysis and visualisation to support decision making and planning.
- Supports political and peace building affairs, and provides geospatial guidance which includes provision of names, terms of use and disclaimers.
- Provides a geographic base for monitoring and measuring progress towards the UN Sustainable Development Goals.

Open Maps for Europe

eurogeographics

The Success

Case Study

- The European Environment Agency (EEA)
- Feature visibility for the European Ground Motion Service (EGMS)

Open Maps for Europe

Providing a web map service for investigating European Ground Motion

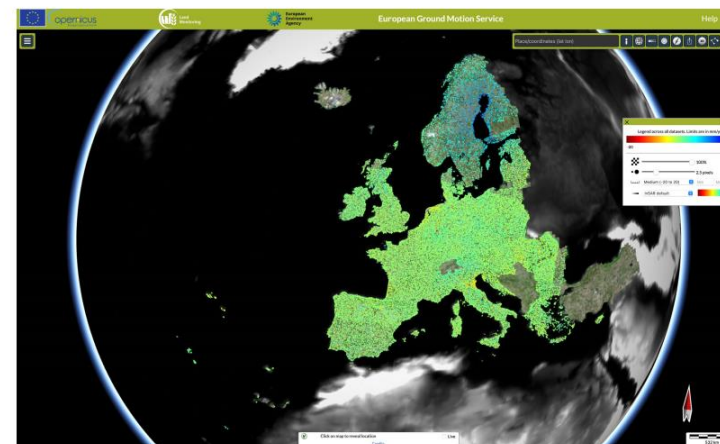
"The use of EuroRegionalMap open data in the European Ground Motion Service data viewer not only demonstrates the value of information available from National Mapping, Cadastral and Land Registration Authorities, but also highlights the benefits of our cooperation. We fully support the ambition to include map data from all Copernicus Participating States in future releases of Open Maps For Europe."

Henrik Steen Andersen
Contract Manager,
Copernicus In Situ Data

The European Environment Agency (EEA) is using multi-themed topographic open data from official sources as a selectable background map in its European Ground Motion Service (EGMS). Provided through the Open Maps For Europe interface, EuroRegionalMap provides an option for users of the EGMS data viewer who prefer to use maps rather than satellite images.

Challenge

Measurement points provided by the EGMS usually coincide with buildings, artificial structures, and non-vegetated areas, such as cities, roads, or bridges. As users can often more easily identify these features on a map rather than a satellite image, the data viewer needed a background option based on a trusted topographic dataset. With no web map service available, the EGMS needed to find an existing open data solution which also ensured content and quality.



Source: Copernicus Land Monitoring Service. Produced with funding by the European Union.

Benefits of using Open Maps For Europe

- Allows the EGMS to easily provide a web map service created using authoritative data available from National Mapping, Cadastral and Land Registration Authorities.
- Enables users to select the most relevant background layer for their needs in the EGMS.
- Demonstrates value of cooperation between EEA and European National Mapping, Cadastral and Land Registration Authorities.

The Success

Case Study

- The Netherlands Cadastre, Land Registry and Mapping Agency (Kadaster)
- Tactile mapping

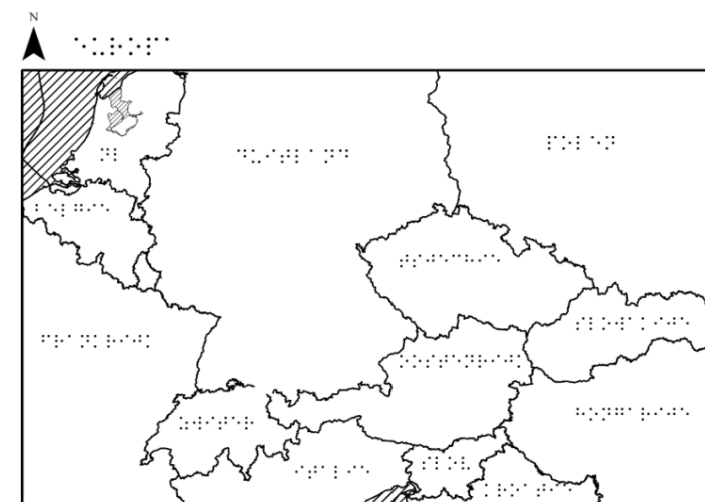
Open Maps for Europe

Using the power of touch to bring tactile maps to life

"Our aim is to make all geodata from Kadaster available and accessible to everyone. For blind and visually impaired people, the best way is to create tactile maps. Open Maps For Europe provided an easy way to access official topographic data from different countries and apply the production process we have developed for The Netherlands to other parts of Europe."

Daan Rijnberk
Kadaster
The Netherlands

The Netherlands Cadastre, Land Registry and Mapping Agency (Kadaster) is committed to making its information easily accessible to everyone. To enable blind and visually impaired people to benefit from its data, it is developing a series of tactile maps for navigating by touch.



Challenge

Tactile maps are expensive to produce as they require special paper and ink as well as the Braille used to 'read' them. Whilst Kadaster wanted to improve the style and coverage it offered, it also needed to assess if there was sufficient demand to justify developing a production process, and if so, how best to apply it to other countries in Europe.

Benefits

- Provides access to European maps based on official geospatial data for blind and visually impaired people.
- Demonstrates demand and need for tactile mapping.
- Reduces production costs as based on open data that is easy to access.
- Builds on user needs to ensure maps meet requirements of blind and visually impaired people.
- Enables national production process developed for The Netherlands to be automatically applied to countries included in EuroRegionalMap open data.
- Pioneers new standards for tactile mapping based on user needs.

The Success

Case Study

- The External Action Service (EAS)
- Planning of military mobility and investment programmes

Open Maps for Europe

Delivering data to promote peace, prosperity and security

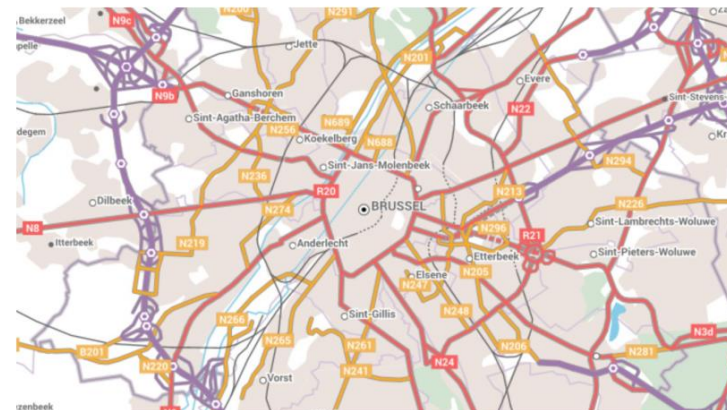
"We need a coherent database, and we need data that we can trust and rely on. We need authoritative geospatial information, quality controlled, preferably from governmental sources with borders and boundaries that should reflect the EU view. We also need a common place where we can do planning. So, the 1:250 000 scale seamless open data is crucial for us in determining, for example, where we reinforce our bridges so that heavy trucks can cross them without breaking or planning our routing systems."

Lieutenant-Colonel
Soenke Fischhoefer
Senior Geospatial Officer EUMS,
EU External Action Service

The European External Action Service (EEAS) is the European Union's (EU) diplomatic service, and since 2011 has carried out the EU's Common Foreign and Security Policy to promote peace, prosperity, security, and the interests of Europeans across the globe. It uses EuroRegionalMap, a pan-European dataset available through the Open Maps For Europe project, for planning military mobility and investment programmes.

Challenge

Security is a priority in the EU's Global Strategy. In a rapidly changing world however, security challenges have become more complex requiring Member States to collaborate more closely, particularly in delivering trusted and reliable information for planning and field operations.



Benefits

- Provides access to a coherent database of trusted, quality controlled, reliable geospatial information for defence planning and situational awareness that can be used to be designated for legally binding use of geospatial information.
- Avoids misinterpretation of data by reflecting the EU view of international borders and boundaries.
- Supports the EU's Global Strategy, in which security is a priority, and the EU's Common Foreign and Security Policy.
- Provides a common operational picture for planning and field operations.

The Cliff Hanger

Remaining Challenges

- Licensing
- Quality
- User information



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The Happy Ending

OME =

User friendly

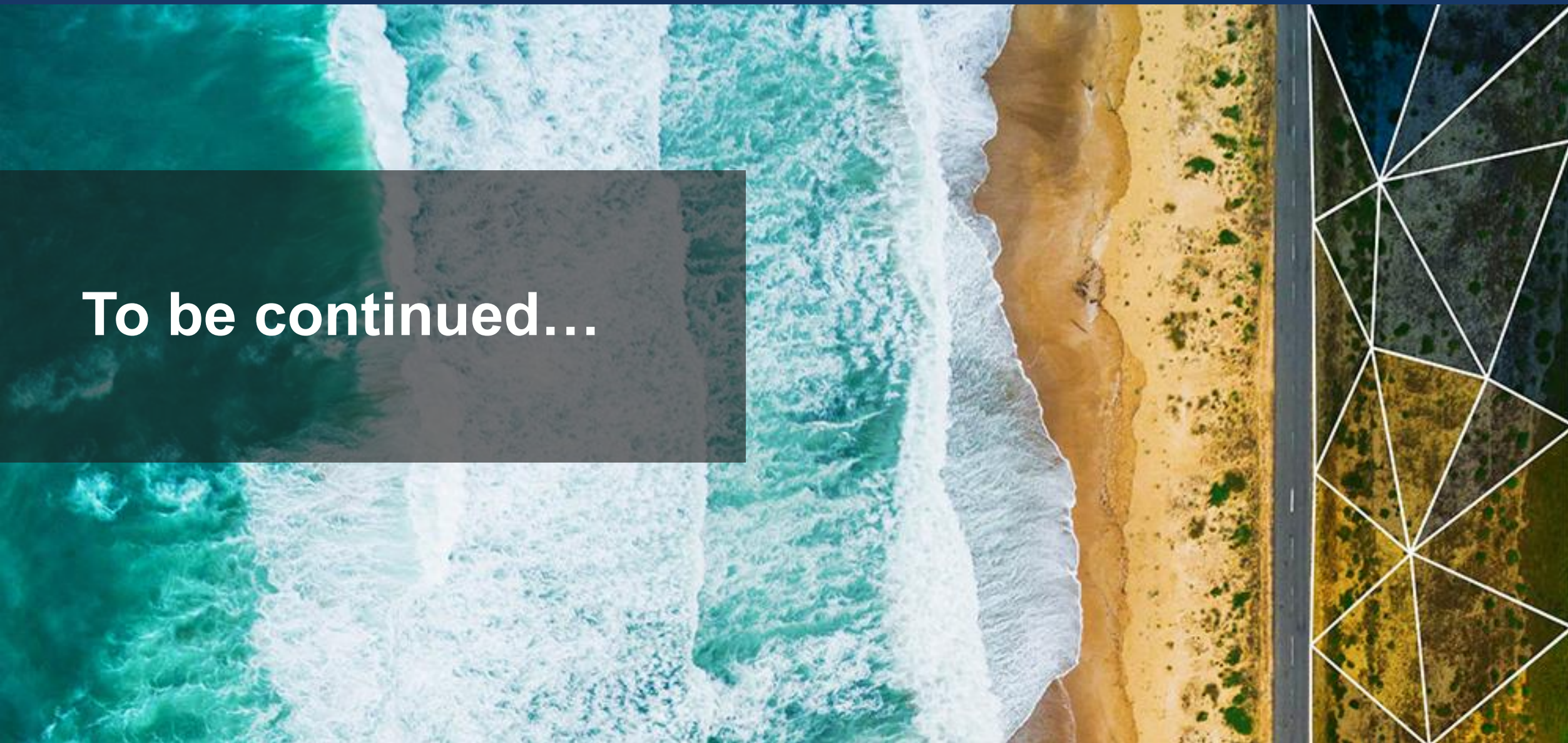
high quality

means to a

better Europe



To be continued...



Thank you!

victoria.persson@eurogeographics.org

