



Agenda

- 1. EuroGeographics
- 2. OpenMaps for Europe (OME)
- 3. Pan-European products
- 4. opening the authoritative datasets
- 5. OME geoportal
- 6. Conclusion

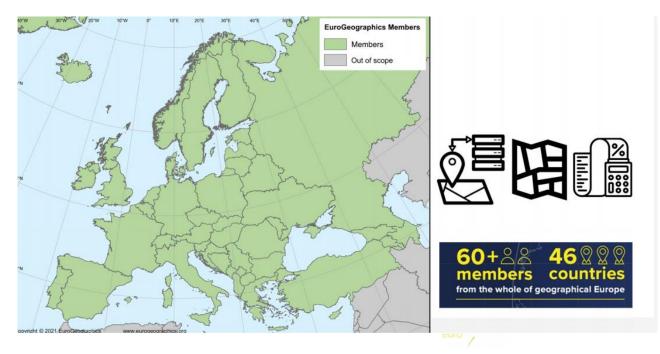


1.EuroGeographics

International ASBL

- Mapping agencies,
- Cadastral agencies
- Land registries agencies

Headquarters: Brussels



How we work...



Knowledge exchange



Voice the views



Data Access Facilitation





2.1. Open Maps for Europe: adapting to new landscape

- Providing easy access to free to use harmonised maps for Europe
- Realising the benefits of the Open PSI Directive by driving innovation, market development and growth to support the digital economy.
- Demonstrating how NMCAs contribute to the public good through unique international collaboration.
- Maintaining Open Maps for Europe requires sustainable funding





2.2. Open Maps for Europe: CEF project; bid- period: 2020 to 2022. (75% funding)

Activities

- Gaining permission to open up Pan European datasets
- Production of pan-European harmonised datasets
- Technical platform giving access to digital maps of Europe and pan-European datasets
- Dissemination, impact and sustainability

Partnerships

- IGNB: partner as legal and technical adviser.
- ThinkWhere : Technical platform implementation
- BKG-DE & IGN-France: data product managers

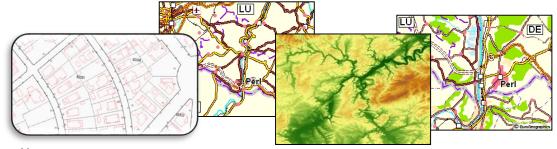


3. Production of open pan-European harmonised datasets

This activity includes work on EGM, ERM, Regional Gazetteer, EuroDEM, New: Cadastral Index Map, Imagery

The activity will result in the following outputs:

- Production and continued supply chain of the open datasets, ERM, EGM, and EuroDEM
- Increased coverage of the Regional Gazetteer
- A new supply chain to include Imagery and the Cadastral Index Map (CIM): WMTS





3.1 EuroBoundaryMap (not part of OME) Input for ERM, EGM and the Regional Gazetter

- 55 countries & territories
- Theme: administrative boundaries (names, codes) + statistical units (LAU, Nuts)
- Update: yearly
- Not open
- Contract with Eurostat
- Production coordinator : BKG-Germany





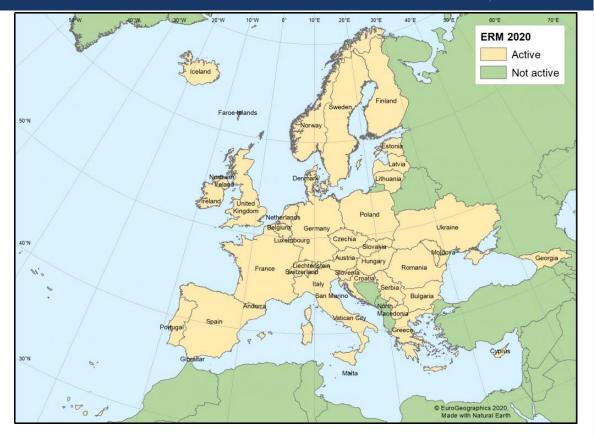


3.2 EuroRegionalMap

- 51 countries available
- Themes: administrative boundaries,

water network, transport network, settlements, vegetation&soils, named locations, miscellaneous

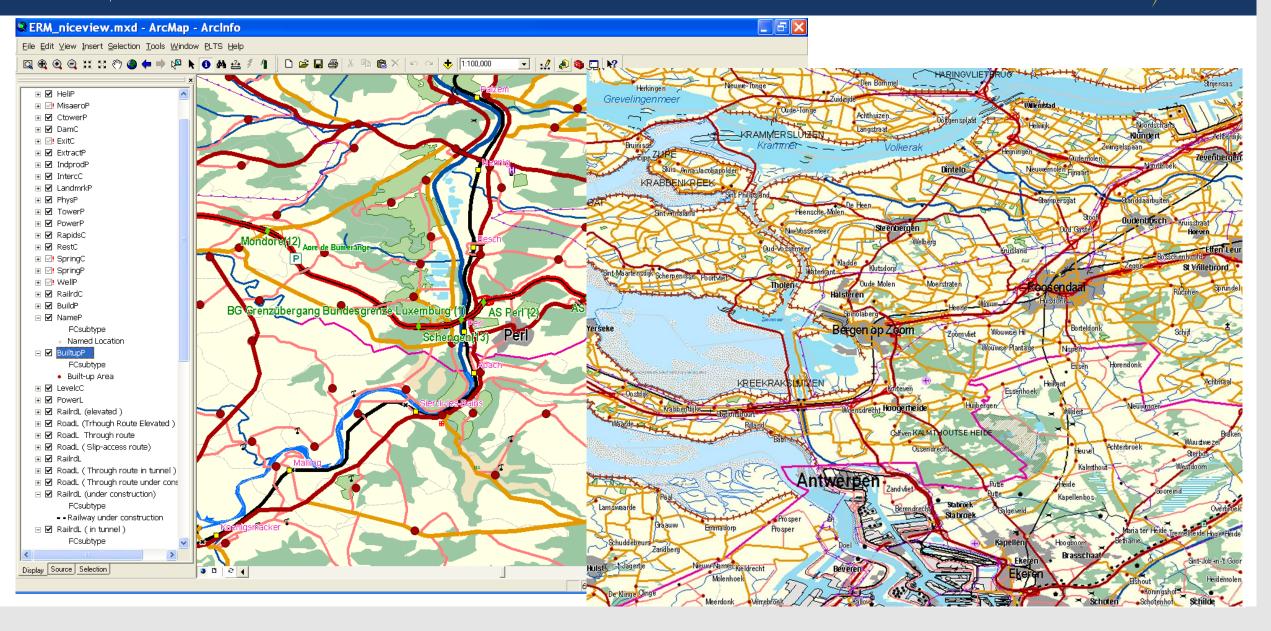
- To open
- Update: every year (not all themes)
- Production coordinator: NGI-Belgium 2016 -> BKG-Germany
- Contract with Eurostat until 2018





#mapsforeurope

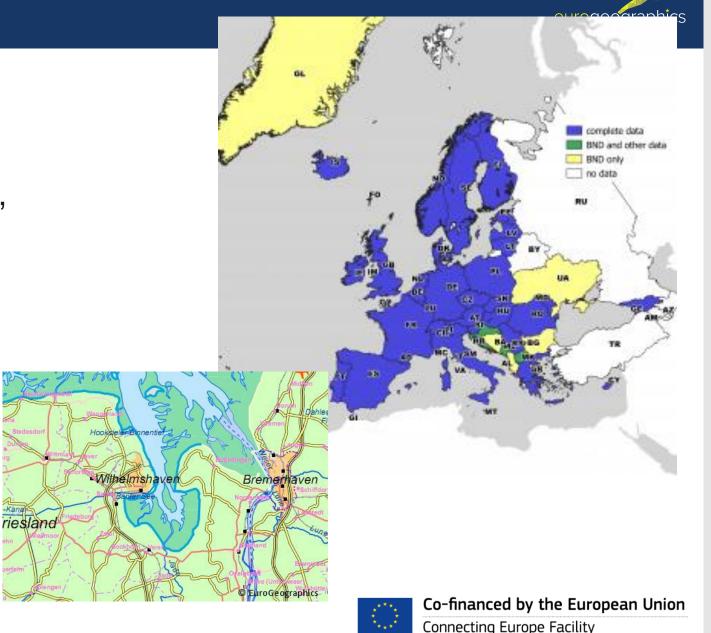




3.3 EuroGlobalMap

- 55 countries
- Themes: administrative boundaries, water network, transport network, settlements, named locations
- Update: every year
- Already open
- Production manager: IGN France

EGM specifications





3.4 Common Harmonisation Characteristics

• **ERM/EGM:** <u>ERM specifications</u>

Nomenclatures (features&attributes) based on DIGEST FACC

- EBM: mix DIGEST/INSPIRE
 - INSPIRE compliant data model + features
 - Attributes DIGEST FACC
 - INSPIRE data

Harmonised data content :

Selection criteria

Increased mandatory content

Edge-matched

European PIDs; national INSPIRE IDs

- Production tools: ESRI ARCGIS, FGDB
- Data available in FGDB and shapefiles

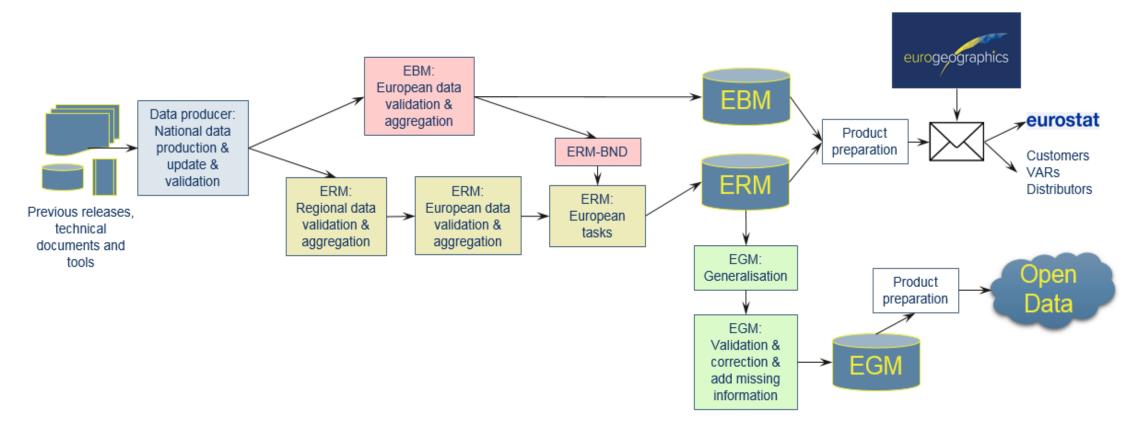


geopackage, shapefiles





3.5 Production processes





3.6 ERM Validator Tools

- ArcMap or ArcCatalog
- Checks data quality
 - Data model & attributes structure
 - Selection criteria
 - Topology
 - Attributes completion rates
 - Attributes homogeneity
 - Consistency with other themes
 - Specific to the theme
- Output: a Log file,
 a GENERIC Results txt,
 <Theme> Results txt,
 <Theme> Results SUMMARY txt
 Results database with error feature
 classes (e.g. Hydro_ResultsA,
 Hydro_ResultsL and Hydro_ResultsP).

	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	V
	T003	coordinate system (GEOGRAPHIC, decimal degrees)	V
	T004	map extent (-25° < Lambda < 40° and 30° < Phi < 80°)	V
	T005	AIRFLDA, AIRFLDC, AIRFLDP, FERRYC, FERRYL, HARBORA, HARBORC, HARBORP, INTERCC, LEVELCC, RAILRDC, RAILRDL, RESTC, ROADL, RUNWAYL must have features	V
Geometric resolution (Tested in projection ETRS89 LAEA)	T006	Valid Geometry	V
	T007	minimum allowed area size: 60 000m ²	V
	T008	minimum allowed distance between vertices of line and area features: 5m	V
	T009	minimum allowed length of a line segment: 50m	V
	T010	statistics of average distance between vertices	
Geometric resolution (Tested in projection ETRS89 LAEA)	T011	The number of HARBORA areas less than 400 000m ²	V
	T012	The number of AIRFLDA areas less than 400 000m ²	V
	T013	The number of RAILRDL features less than 1600m	V
	T014	The number of FERRYL features less than 125m	V
Data Model and attributes structure	T015	geometrical definitions (polygon, polyline, point)	V
	T016	attributes: complete list, ordering, definition	V
	T017	attributes: have valid values (FCSubtype, F_CODE)	V
	T080	attributes: no NULL values	
	T018	correct value of ICC (all FCs)	V
	T019	Name attribute: no special character in NAMA1 or NAMA2 (only ASCII)	V
	T081	Name attribute: only Unicode character in NAMN1 or NAMN2 (UTF-8)	
	T021	allowed attribute values for AIRFLDA (IKO)	V
	T022	allowed attribute values for AIRFLDP (CAA, EXS, FUC, IKO, TEN, TUC, USE, ZV3)	V





3.7 EuroDEM

• 38 countries

• DEM: around 60m, ETRS 89

GRID ,GeoTIFF, GRID points

www.eurogeographics.org

Not updated

To open





3.8 Regional Gazetteer

- 29 countries
- Theme: Geographical names from EBM/ERM
- Data specs: INSPIRE GN
- Update: yearly
- To open
- Production manager : BKG-Germany





3.9 Regional Gazetteer: data sources

NamedPlace localType (EBM/ERM)	NamedPlace ty		
Built-up Area / Populated Place (BuiltupP), Named Location (UrbanP)	populatedPlace		
Airport / Airfield (AirfldP/C), Ferry Station (FerryC), Port (HarborP/C), Railway Station (RailrdC), Entrance / Exit (ExitC)	transportNetw	inspireId =	
AdministrativeUnit_x and designation	administrativel	t _EG.EBM:AU4.GR06115501	inspireId =
Lake /Pond /Reservoir (LakeresA), Island (IslandA), Watercourse (WatercrsL), Glacier / Snow Field / Ice Field (LandIceA)	hydrography		
National Park / Nature Reserve (ParkA)	protectedSite	DESA = Dimos USE = 4th order SHNupper = GR06110000 PPL = 16992 effectiveDate = 01.01.211	

Figure 1: Transformation of an administrative unit from EBM into a named place point in the Open Regional Gazetteer





3.10 Regional Gazetteer: + exonyms

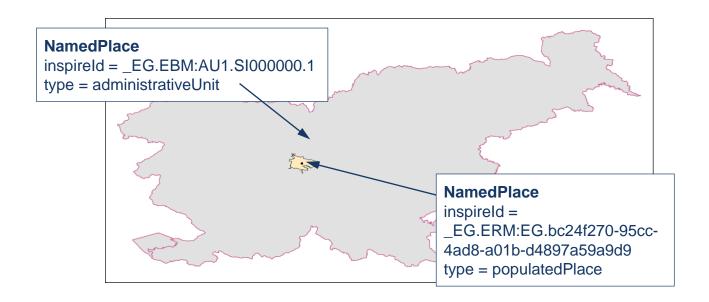
- Exonyms in common use
 - Endonym (Italian): Roma
 - Exonym (English, French, Dutch, ...): Rome
 - Exonym (German, Danish, ...): Rom
- Work by geographical name expert

- text = Athina
- script = Latn (Latin)
- transliterationSchema = ELOT 743
- GeographicalName (2)
 - language = eng (English)
 - o nativeness = exonym
 - SpellingOfName
 - text = Athens
 - script = Latn (Latin)
- GeographicalName (3)
 - language = geo (Georgian)
 - nativeness = exonym
 - SpellingOfName
 - text = ათენი
 - script = Geor (Georgian)





3.11 Regional Gazetteer: point based feature



INSPIRE compliant, geopackage





3.12 Raster data available (WMTS):

new supply chains for

 Cadastral index map: cadastral parcels, buildings and addresses

 Imagery: sentinel data harmonised across border





4. Opening the authoritative datasets (current status)

Making ERM and EuroDEM available as open datasets from **31st August 2021**

- Gaining members' permission
- Concluding existing customer contracts

Coverage for the datasets for the first release:

- ERM 31 data providers
- EuroDEM 33 data providers of which 7 are already infilled by SRTM data
- Gazetteer 35 data providers
- We will continue to work with EuroGeographic members to increase this coverage for future releases



OpenData Licensing

EuroGeographics Open Data Licence

This licence governs your access to and use of EuroGlobalMap made available at https://eurogeographics.org/maps-foreurope/open-data/topgraphic-data/ by EuroGeographics. EuroGeographics AISBL is an international non-profit association under Belgian law, with registered offices at Rue du nord/Noordstraat 76, 1000 Brussels, Belgium.

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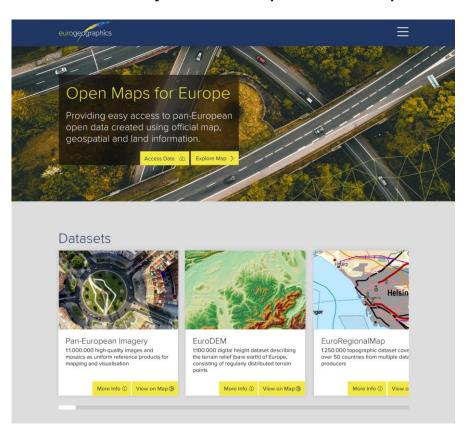
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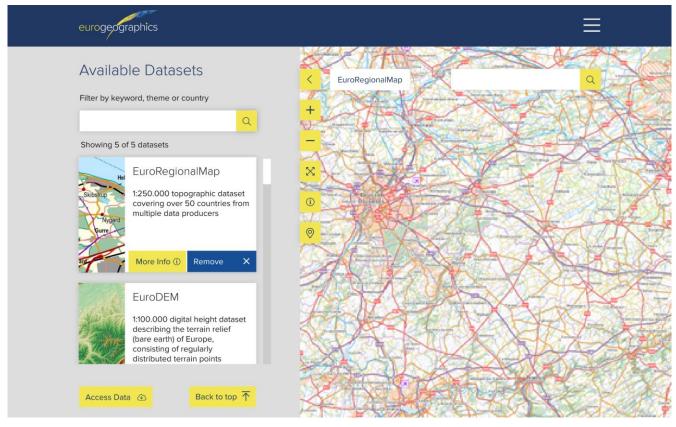


5. Gateway for data access: Open Data&PSI compatible

Geocatalogue and discovery service harvested by the European data portal



MapViewer + elaborated view of ERM/EGM (Basemap)



View + Download services





6. To conclude

Pan-European products of EG have been existing for a while, but

POOR accessibility

Realise the benefits of the Open PSI Directive with the aim to increase the use of our members data

OME is the STEP for
connecting them to the European network





