

Open European Location Services

Developments of GeoLocator and Regional Gazetteer

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EuroGeographics' vision for future European Location Services

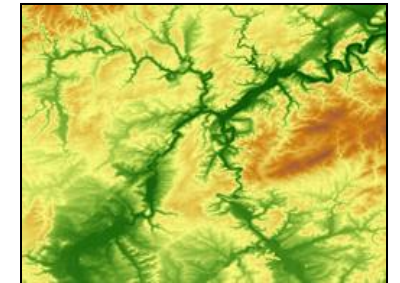
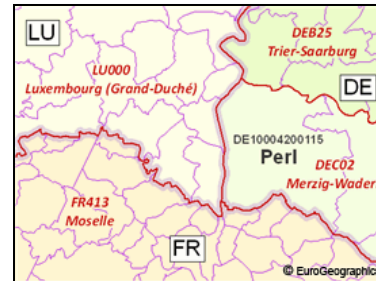


To provide the single access point for international users of harmonised, pan-European, authoritative geospatial information and services.

For National mapping, cadastral and land registry authorities to be recognised in our International effort to contribute to the wider public good.

EuroGeographics pan-European datasets

- EuroBoundaryMap (EBM)
Administrative and statistical regions
1 : 100 000
- EuroRegionalMap (ERM)
Topography
1 : 250 000
- EuroGlobalMap (EGM)
Topography
1 : 1 000 000
- EuroDEM
Digital Elevation Model



ELS and Open ELS products

ELS products

- Download web-services (WFS):
 - Administrative Units, Addresses, Geographical Names, Hydrography (Physical waters, Network), Land Cover, Transport Networks (Air, Roads, Rail, Cable, Water); Elevation, Buildings, Cadastral parcels, Protected Sites, Sea Regions, Geology.
- View web-services (WMS, WMTS):
 - Topographic Base Map, Cadastral Index Map
- The application and the web-service:
 - GeoLocator

Open ELS products

- Download web-services (WFS):
 - Addresses,
 - Buildings,
 - Transport Networks (Road, Rail)
- View web-services (WMS, WMTS):
 - Cadastral Index Map
- The application and the web-service:
 - Regional Gazetteer

GeoLocator operates as an application in <https://demo.locationframework.eu/>

The application interface features a sidebar with navigation options: SEARCH, MAP LAYERS, SELECTED LAYERS (2), MY DATA, CREATE MAP, MAP LEGENDS, and MAP USER GUIDE. Below these are navigation controls, a search bar, and a login section with fields for Username and Password, and a Log in button. The main map area displays a geographical view of the Helsinki region.

Search Input Screenshot:

Search term: Helsinki
Region filter: Filter the search by municipality or administrative unit
Search options: Fuzzy search Exonym search

Search Results Screenshot:

Name	Region	Type
Helsinki		Land transport
Helsinki		Administrative units
Helsinki		POPULATED PLACES
Helsinki		Administrative units
Helsinki		Houses

Search results popup:

- Helsinki
- Administrative units
- Helsinki
- Administrative units

GeoLocator – Composition and Operational Capacities

Content

- Geographical Names
- Addresses
- Administrative units

Databases:

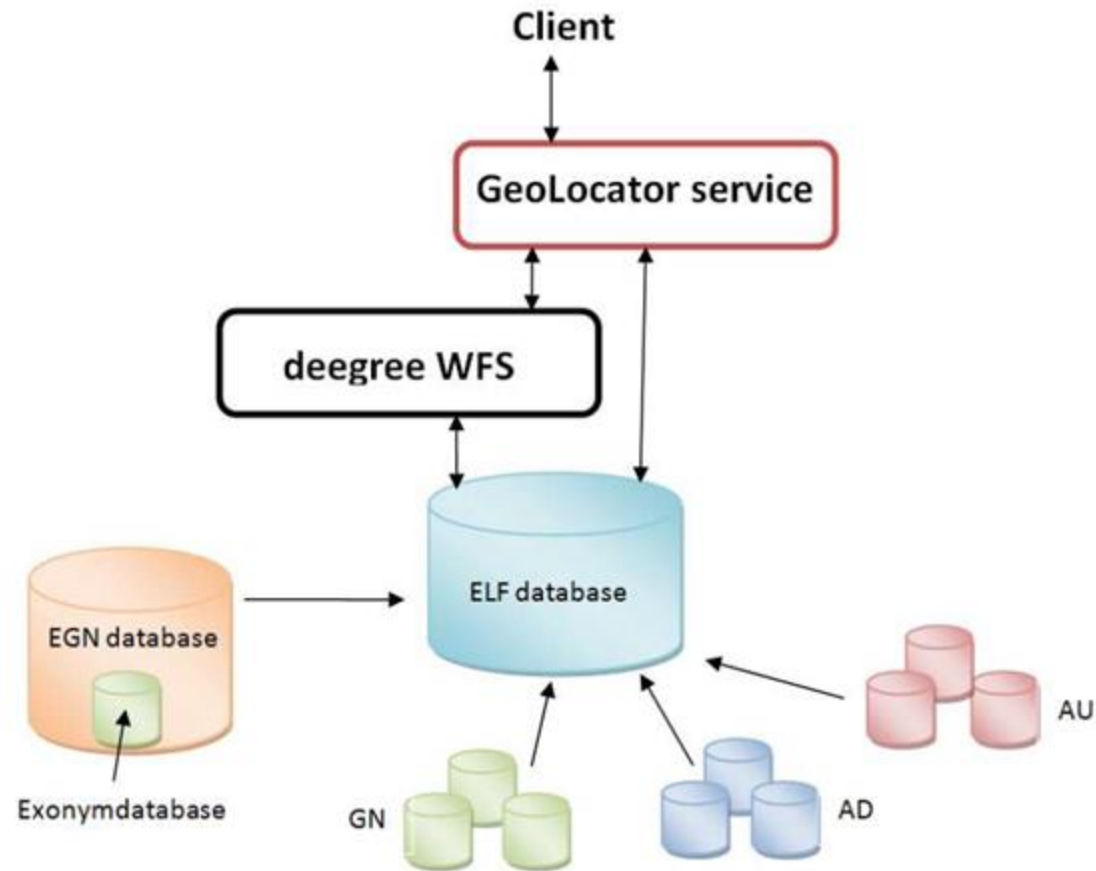
- Central DB
- Exonym DB

Functions:

- Geocoding and reverse geocoding
- GetCapabilities, DescribeFeatureType, GetFeature

Client part:

- Application in the ELS showcase
- External service



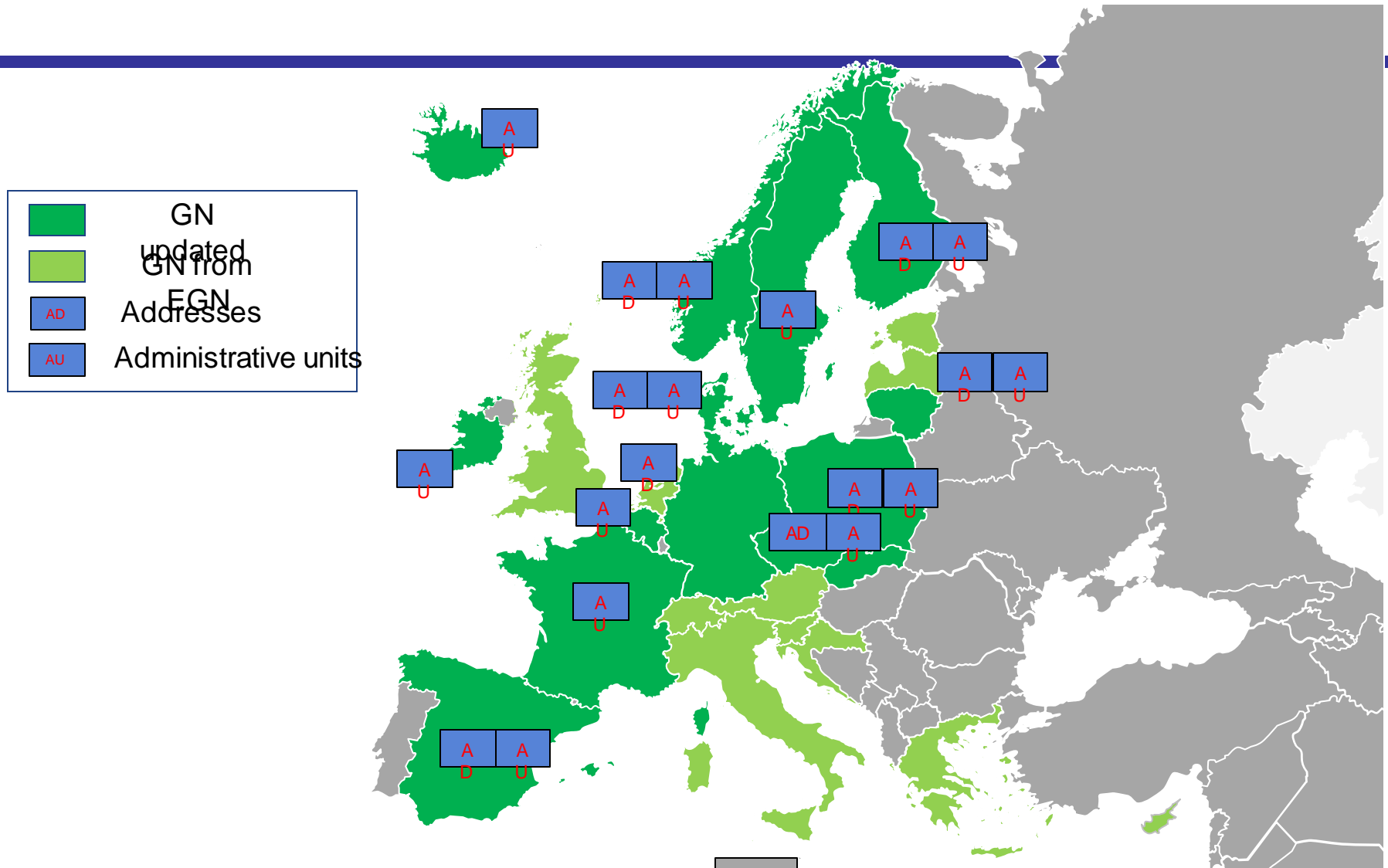
Features in the GeoLocator data

ID LANGUAGE NAME

1	eng	COUNTRIES, ADMINISTRATIVE UNITS AND OTHER AREAS
2	eng	Country
3	eng	Administrative units
4	eng	Other non-administrative units
5	eng	POPULATED PLACES
6	eng	Administrative capitals
7	eng	Other populated places
8	eng	Houses
9	eng	NON-RESIDENTIAL STRUCTURES AND BUILDINGS
10	eng	Economic activity facilities Social facilities, administrative buildings and monuments
11	eng	Other non-residential structures
12	eng	TRANSPORT AND TELECOMMUNICATION FEATURES
13	eng	Air transport
14	eng	Waterborne transport
15	eng	Land transport
16	eng	Telecommunication
17	eng	TERRAIN FEATURES

19	eng	Island
20	eng	Coastal and shore relieves
21	eng	Elevation
22	eng	Natural terrain areas or regions
23	eng	Point terrain features
24	eng	HYDROGRAPHIC FEATURES
25	eng	Seas or part of them
26	eng	Standing water features
27	eng	Flowing water features
28	eng	Hydrographic point features
29	eng	Diverse hydrographic structures
30	eng	Other hydrographic and underwater features
31	eng	CONSERVATION AREAS
32	eng	World Heritage Sites
33	eng	Conservation areas of natural environment
34	eng	MISCELLANEOUS

Coverage of GeoLocator



Regional Gazetteer and the link to GeoLocator

Ongoing actions:

- Extract of GN from EuroRegionalMap and EuroBoundaryMap,
- Link (populate) exonyms
- Transform to INSPIRE compliant GN spec
- Set WFS of Regional Gazetteer
- Synchronize the updated content of Reg. Gazetteer with GeoLocator

