# Open European Location Services

**GeoLocator and Regional Gazetteer**

Saulius Urbanas, EuroGeographics

Webinar, 26th September 2018

Co-financed by the European Union
Connecting Europe Facility

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

Co-financed by the European Union
Connecting Europe Facility

# 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
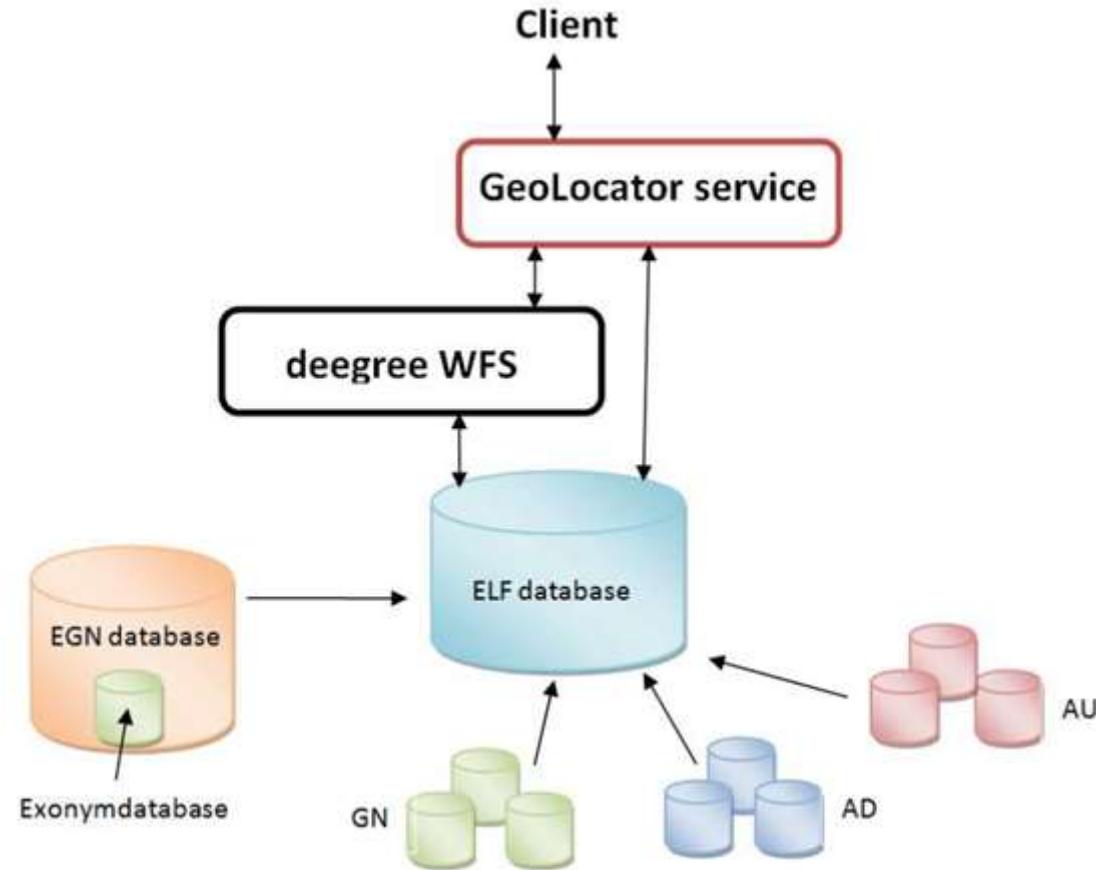
# Features in the GeoLocator data

| 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 |
| 11 | eng | Social facilities, administrative buildings and monuments |
| 12 | eng | Other non-residential structures |
| 13 | eng | **TRANSPORT AND TELECOMMUNICATION FEATURES** |
| 14 | eng | Air transport |
| 15 | eng | Waterborne transport |
| 16 | eng | Land transport |
| 17 | eng | Telecommunication |
| 18 | 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** |

# How to contribute to GeoLocator

**Read the documentation (DB structure, service architecture, UML…)**

* http://elfproject.eu/documentation/specification/geolocator/1.0

**Schema:**

* INSPIRE Geographical Names schema

**Arrange national data as files**

* GN, AD, AU
* Preference: GML (AtomF)
* other GIS formats are acceptable

**Maintain persistent identifiers for GN**

* spatial_object_ID
* Exonyms / endonyms are populated by toponymic experts, updates shall be linked by the UID

**Data provided to:**

* Saulius Urbanas (saulius.urbanas@eurogeographics.org)
* Pekka Latvala (pekka.latvala@nls.fi)

Coverage of GeoLocator

Legend:
- **GN updated** (dark green)
- **GN from EGN** (light green)
- **AD** Addresses
- **AU** Administrative units

#OpenELS

Co-financed by the European Union
Connecting Europe Facility
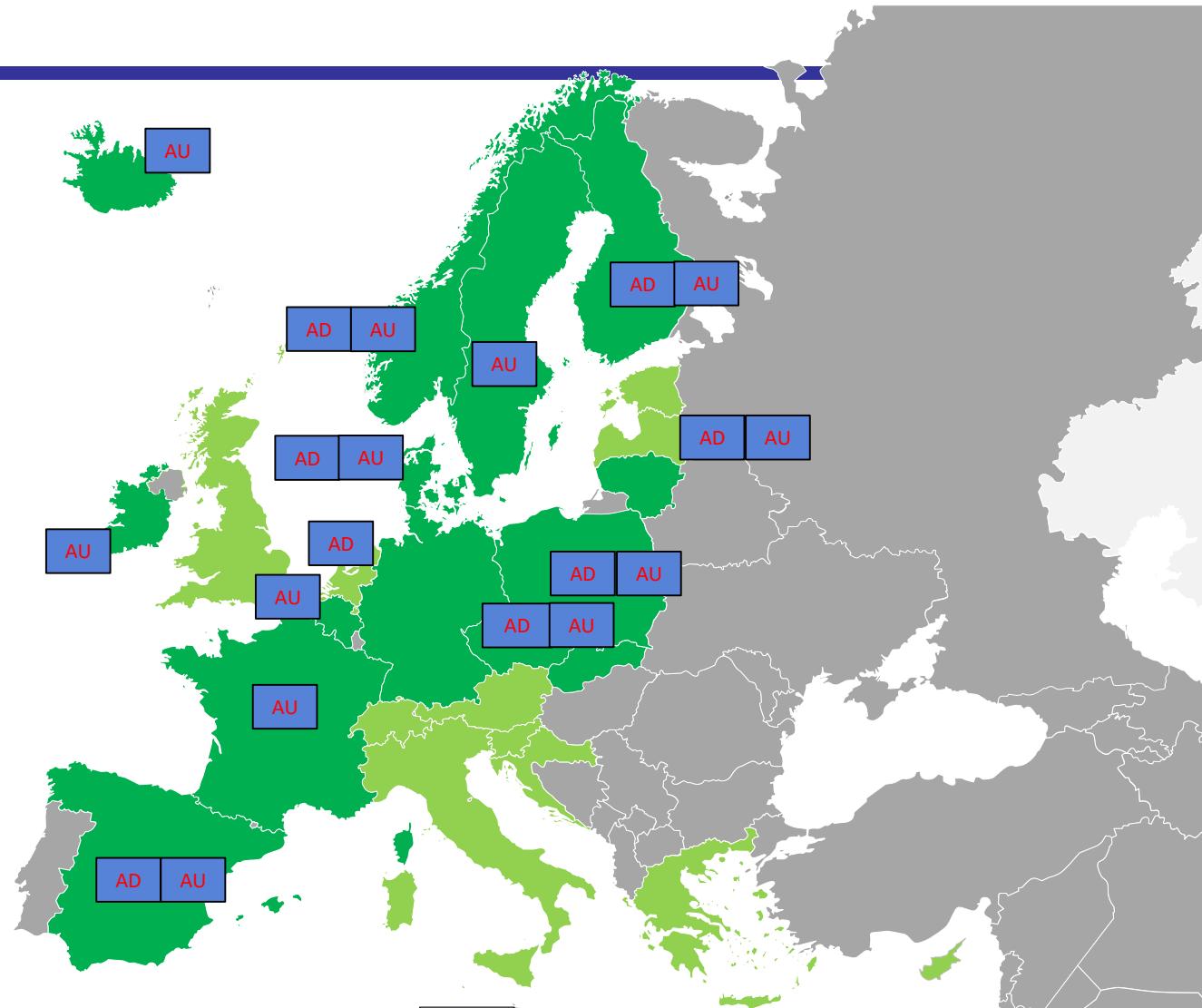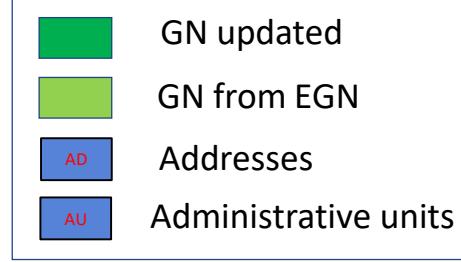
# Regional Gazetteer and the link to GeoLocator

- Extract of GN from ERM, EGM
- Link (populate) exonyms
- Transform to INSPIRE compliant GN spec
- Set WFS of Regional Gazetteer
- Synchronize the updated content of Reg. Gazetteer with GeoLocator
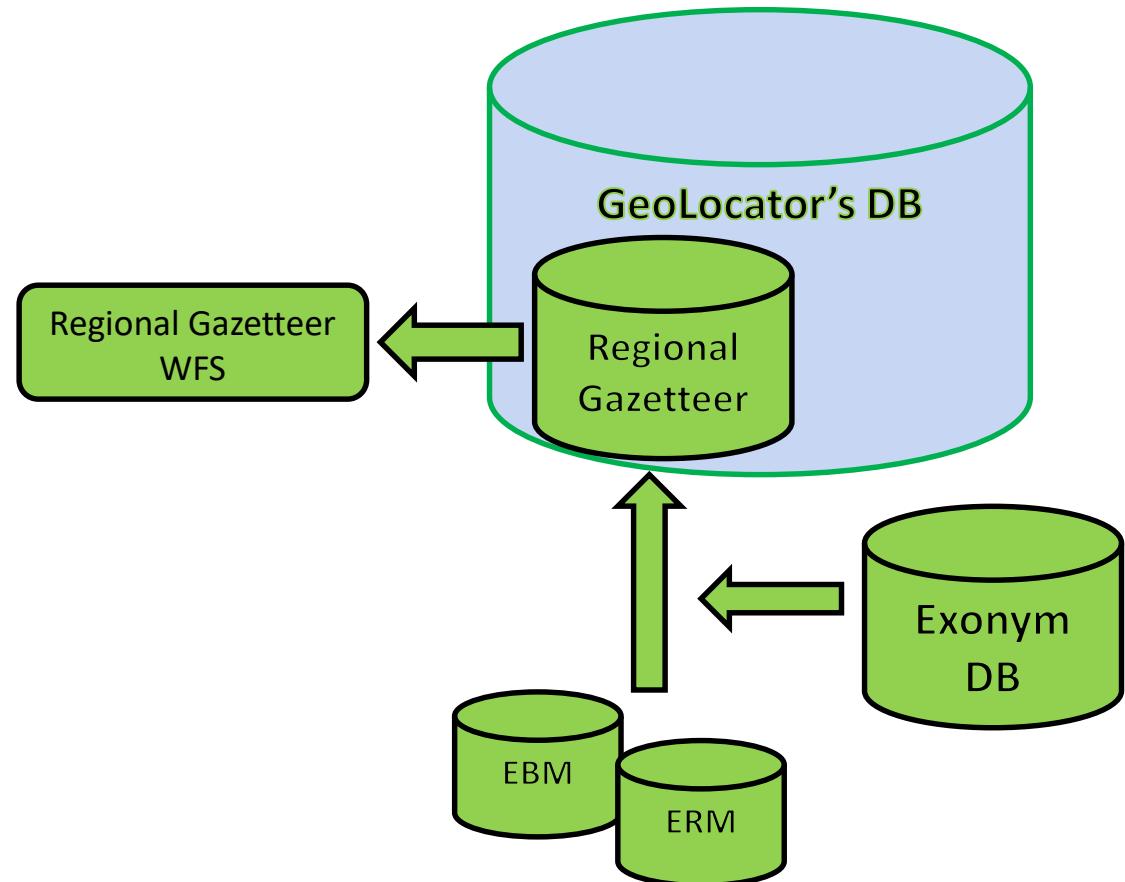
## No action for Data Providers!

GeoLocator's DB

Regional Gazetteer WFS

Regional Gazetteer

Exonym DB

EBM

ERM