

# ELF – unlocking the power of authoritative geographic information

**Presentation to: Workshop on LADM** 

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# The European Location Framework ...



















# A Single Point of Access to ...

Unique Selling Points



pan-European data



authoritative public national sources



web services for flexibility and

optimal currency



national services in real time



quality assured and documented



edge-matched across national boundaries (some themes)



a foundation for evidence-based decisions



a foundation for innovative applications







#### **ELF** builds on INSPIRE ...

Cadastral Parcels CP

Addresses
AD

Administrative Units AU

Hydrography
HY – phys & network

Sea regions
SR

Transport Networks
TN – road, rail, air, cable, water

Geographical Names GN

Elevation
EL – grid & vector

**Land Cover** LC

**■** Buildings BU − 2D & 2D extended

Protected Sites
PS







## **ELF** highlights

- **★** The ELF Basemap administrative and topographic
- ★ The Cadastral Index Map including parcels, addresses and buildings
- **★** The ELF national download services
- **★** The Cascaded Download Services
- **★** The GeoLocator
- **★** The Geo Product Finder
- **★** The GeoTools



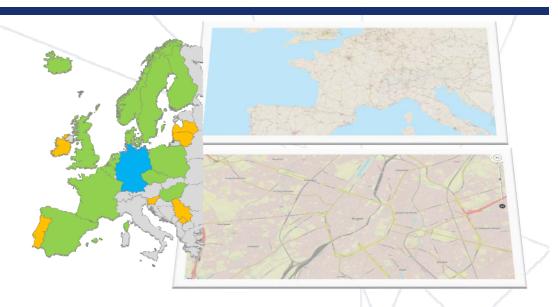


# The Basemap

(topographic)



The first pan-European basemap with authoritative content

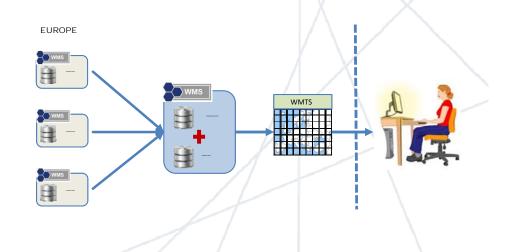




High level details for 14 countries – more on its way!



Harvested from national basemap services





# The Cadastral Index Map



The <u>first ever</u> pan-European map showing cadastral parcels, addresses and buildings



Currently includes 10 countries, more to come ...



This service can only be provided by the NMCAs!

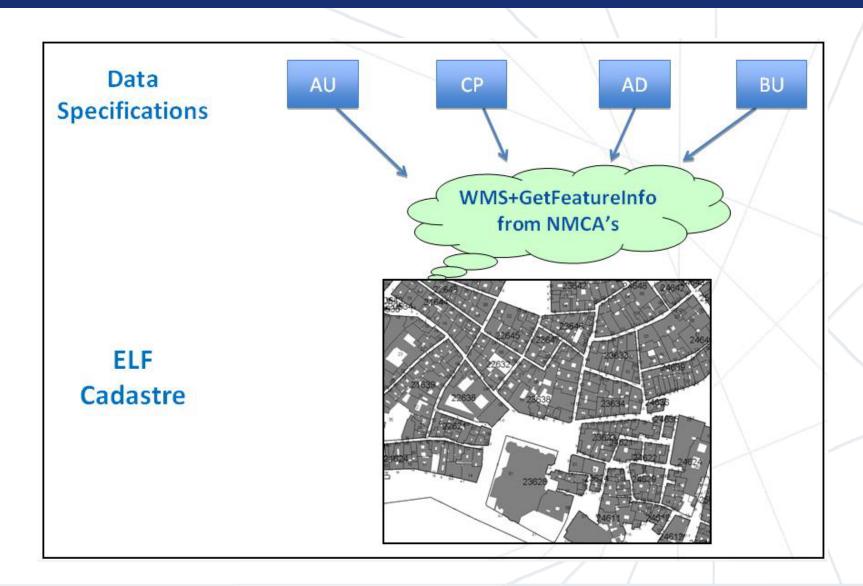


Fragment from Madrid, Madrid Atocha station area





# The ELF Cadastral Index Map







#### The main ELF Cadastre features are:

- Cadastral Parcel:
  - This basic component represents the area of a cadastral parcel
- Address:
  - This component represents the position of the access point from the thoroughfare, or the entrance door or gate of the address
- Building:
  - This component combines the building with the building parts to represent the whole building.
- AdministrativeUnit:
  - This component represents the areas of the administrative units
- Optional features Cadastral Zoning:
  - This component represents intermediary areas in order to divide the national territory into cadastral parcels. Cadastral parcels can be municipality, section, parish, district, block etc.



#### The Geolocator



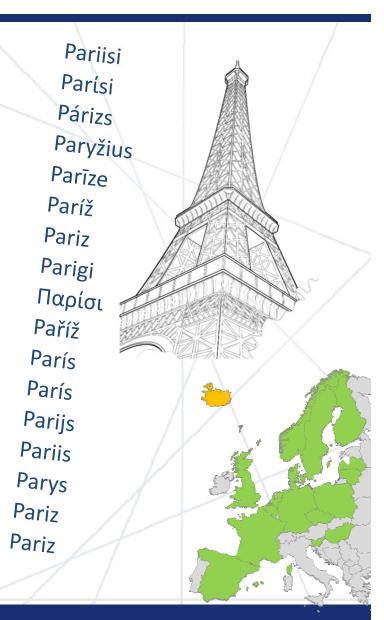
European gazetteer++ service including place names, addresses and administrative units



**Exonym database included** 



Candidate for the common EU Gazetteer proposed in ELISE (ISA<sup>2</sup>—action)





#### **GeoLocator output**



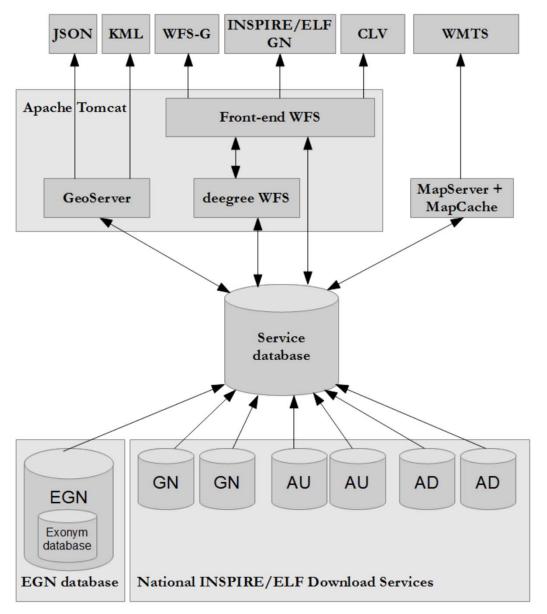






The place name contents of the GeoLocator Service are also provided in visual form as a Web Map Tile Service (WMTS).









## The Cascaded Services



Download structured data across national boundaries WFS – GML output

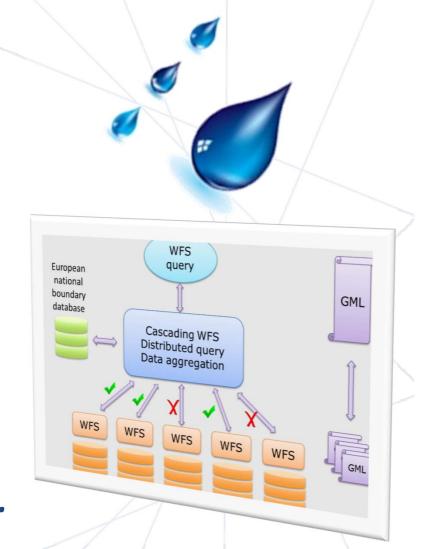


Single point of access – single query – transparent access



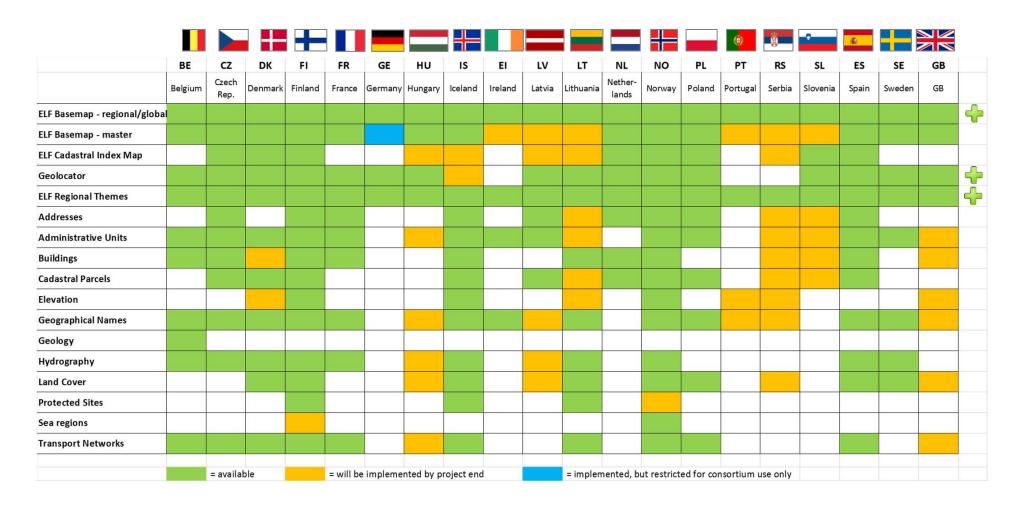
Uses national services in real time

... they said it couldn't be done ...
... ELF did it!





#### **ELF** services summary



NB! Status in September/October 2016





#### ... and it's much more ...



Transformation, Data Quality Validation, Generalisation, Edge Matching, Visualisation, Change Detection, Table Joining Service

- **★** Affiliated platform ArcGIS Online
- Security and License Manager
- ★ Testing environment
  ... and
- ★ Innovative applications!







#### Collaboration with other LA activities

- **★** Discussions with EULIS
- ★ Discussion with DG Justice and the LRI project





★ In both cases enhancing the solutions with a map interface and the other apsects of the ELF services

# The sustained operation

Project 2013-2016

Transition to an operational service

1 November 2016

**European Location Services** 

**EuroGeographics Management Board** 



Partnership Forum

**European Location Services Programme Board** 

Chair: BEV
KAD NL, OS, LM SE, CUZK, KARTV, EG

**User Group** 

Data and service supply group

Chair: KAD NL

Technical systems group

Chair: KARTV

Product marketing and supply group

Chair: OS

Development projects

Lead: EG

# Thank you!

