

# ELF

## Enabling access to Official Reference Data

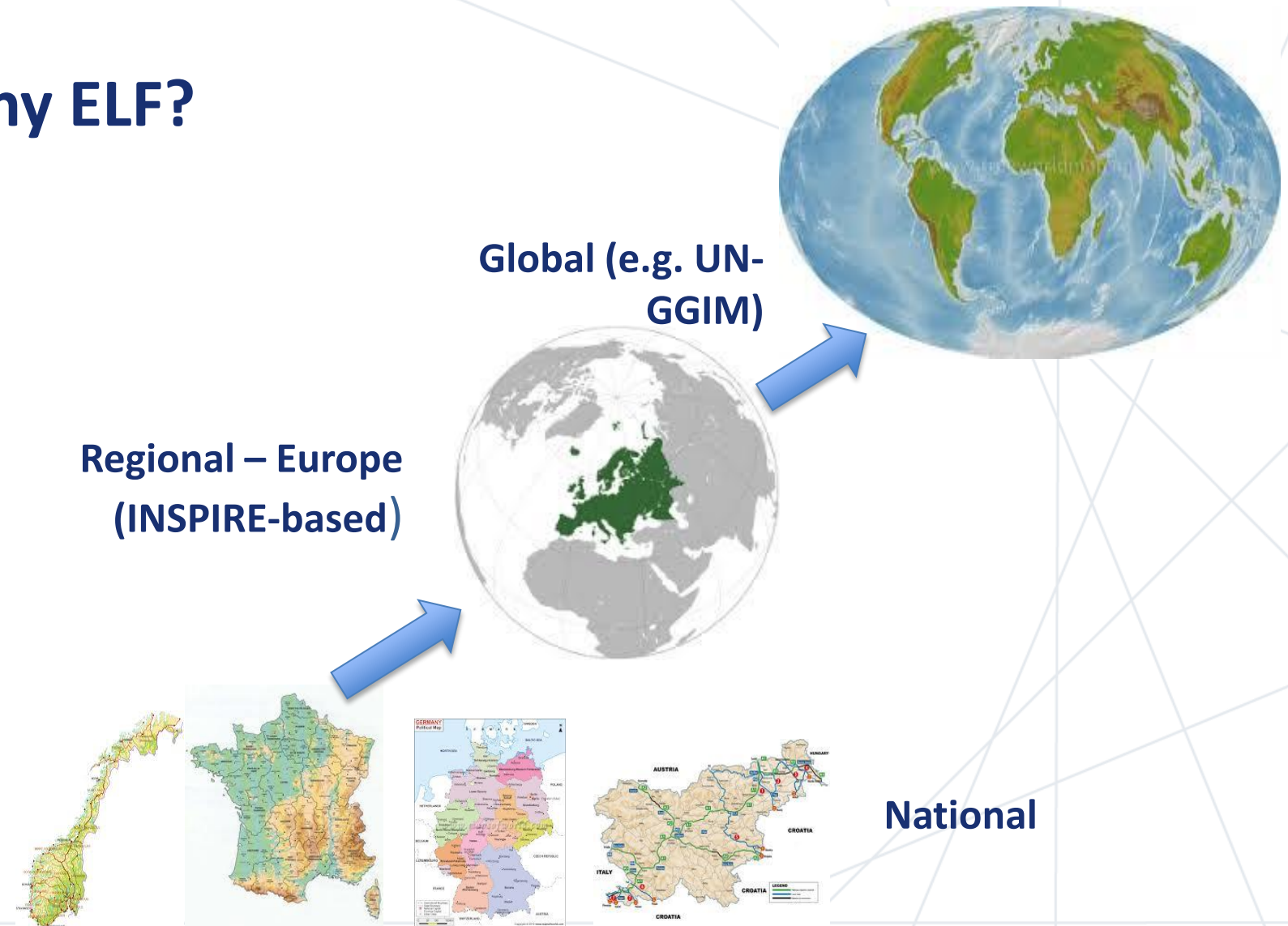
**Kartdagarna in Gävle 27 April 2016**

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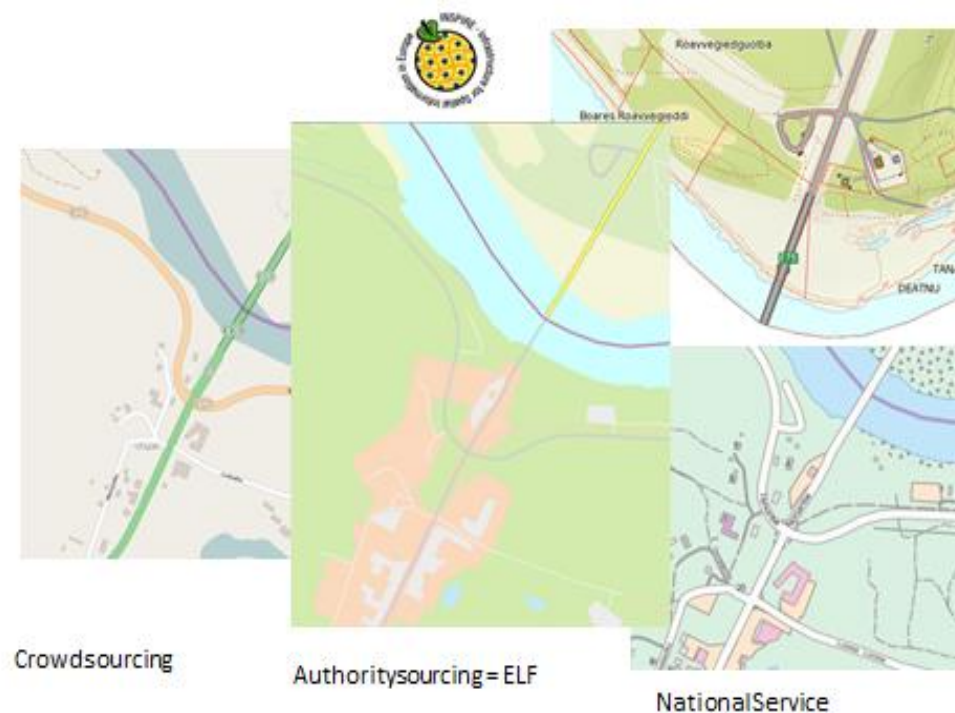


# Why ELF?



# ELF is ...

- ...the response from the European Mapping and Cadastral Authorities (NMCAs) to requirements at the European arena
- ... a 44 month project co-financed by the European Commission and comprising 40 partners, including 23 NMCAs
- ... running from March 2013 to October 2016



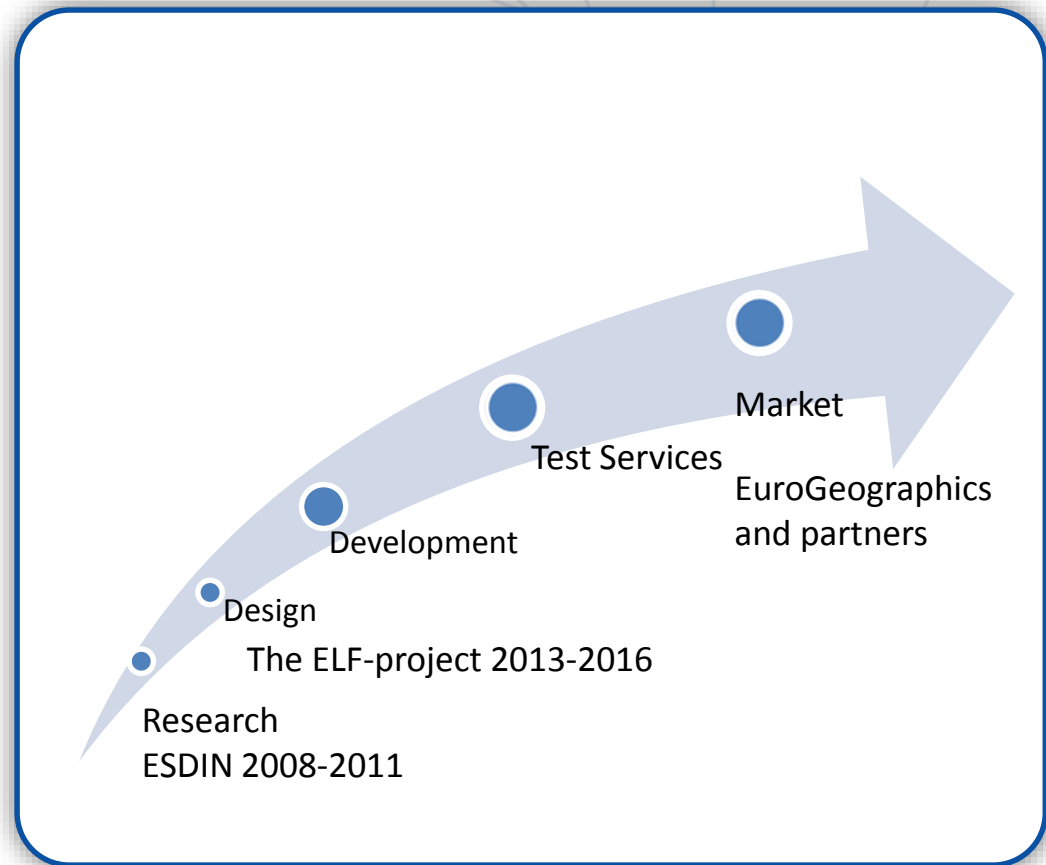
# The overall objectives of ELF (when fully developed)

- Be a unique online service for Europe that offers the only geospatial products which are
  - ★ Coherent, official, cross-border, edge-matched, harmonised, reference data from a sustainable and reliable source
  - ★ Up to date, easy accessible products at a single point with an easy to use license and prices
- Increase the re-use of official public sector spatial reference information and create opportunities for the private sector



## Work in progress... ELF is providing new products

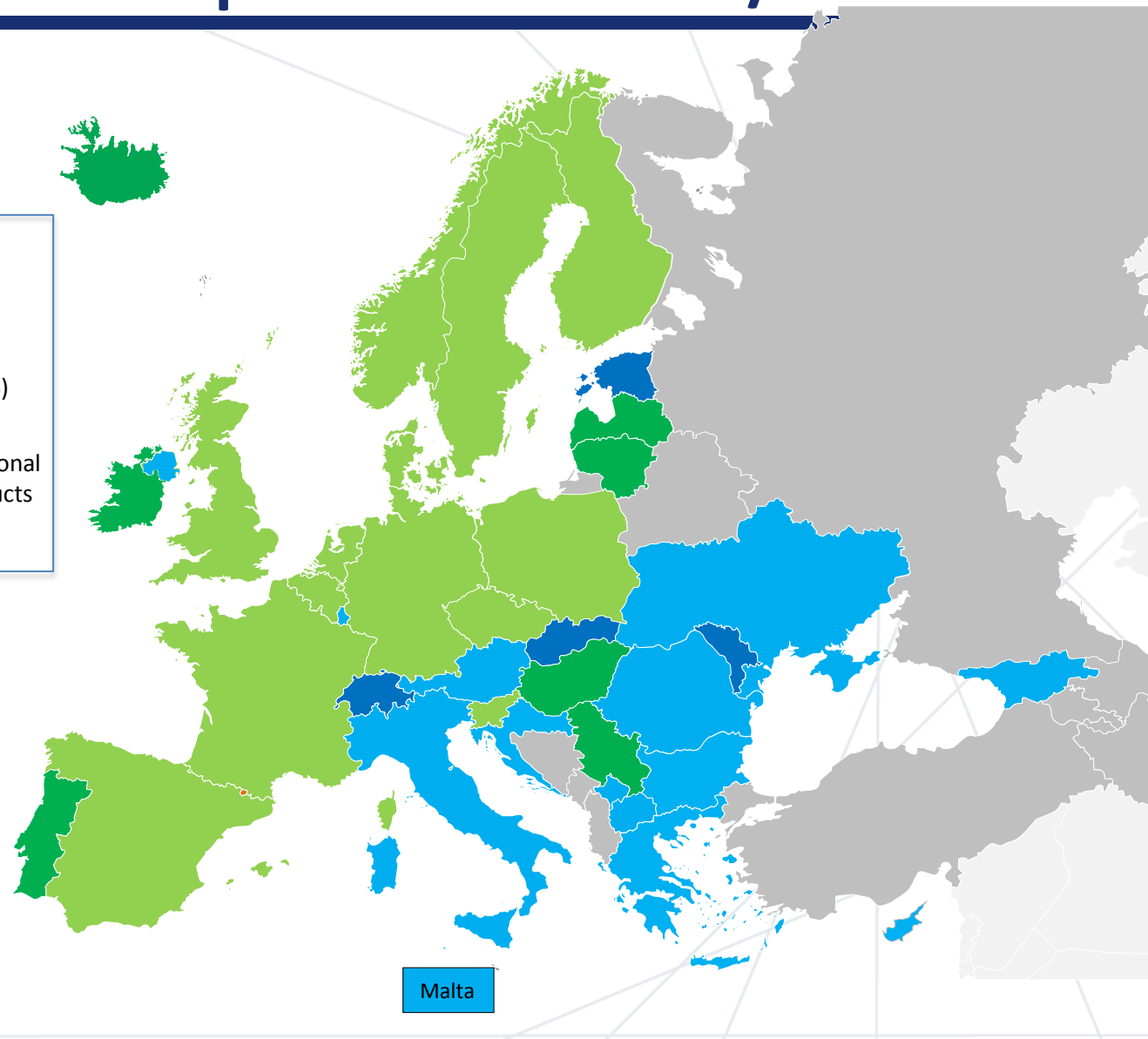
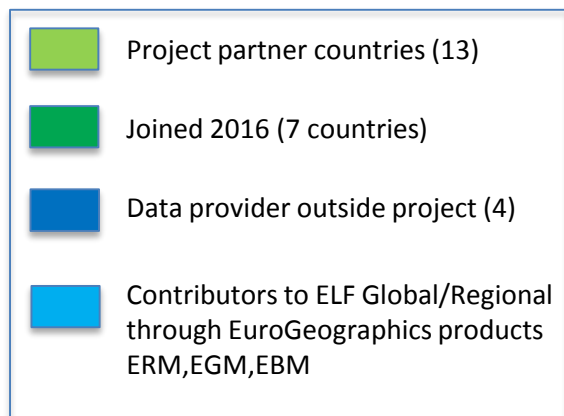
- All key ELF products will be available for testing in May
- As ELF is providing reference data there is a need to develop end-products/services together with partners & application developers



# Pilot applications making use of ELF data

- Insurance - risk assessment application
- Emergency mapping - evaluation of potential ELF benefits
- Linking health statistics data to official geospatial information through Table Joining Services
- Possibilities for real estate development

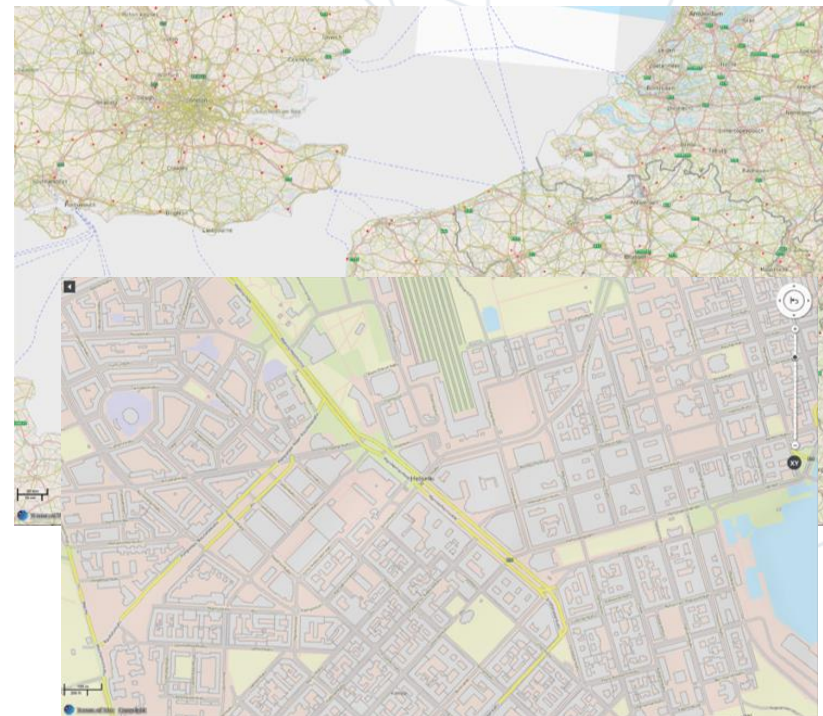
# ELF data providers in 2016/17





# Some key ELF Products

- **ELF Topographic Basemap**
  - ★ WMTS
- **ELF Administrative Basemap**
  - ★ WMS using EuroBoundaryMap
- **ELF Cadastral Index Map**
  - ★ Cascading WMS using CP, BU, AD and AU
- **ELF Geo Locator**
  - ★ Geo-referencing API using GN, AD and AU
- **Download Services available as national WFSs and cascading WFSs**
  - ★ AD, AU, BU, CP, EL, GN, HY, LC, PS, SR and TN road, rail, water, air and cable
  - ★ Regional and Global data available and supported by WMS as well





# What will ELF be to the users?

- **Create business opportunities in Europe for start-ups and existing application developers**
- **Reduce discovery and administration costs by providing a single source for all European official reference data**
- **Support combining ELF data and services with other location dependent data**

# ELF licensing goals

- **Immediate access**
  - ★ ELF Evaluation and Development licenses
  - ★ Apply to all products, limited use, free of charge
- **Standardised terms and conditions for users and VARs**
  - ★ Based on industry standards and data provider requirements
- **Harmonised licensing terms across Europe**
  - ★ **ELF viewing products (WMS, WMTS)**
    - ★ Pricing, when required, will be based on transactions (tile) or subscription
  - ★ **ELF download products (WFS)**
    - ★ Pricing, when required, will be based on features downloaded - single or multiple use

## After the project: “European Location Services”

- EuroGeographics will build on the project to provide the future European Location Services
- The achievements of the project will be used to further test the market and develop solutions that meet market needs
- Agreements in place with current data and software providers for continued provision of data and services
- EuroGeographics is committed to ensuring the long term future as a means to meeting European and international market needs.

# What happens next?

- Key products and services will be available for testing in May 2016
- We are looking for partners to help test and develop further products and services
- Information on this opportunity will be published at [www.elfproject.eu](http://www.elfproject.eu)



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