

# ELF and national SDIs/e-government/INSPIRE

**Presentation to: National SDIs/INSPIRE** 

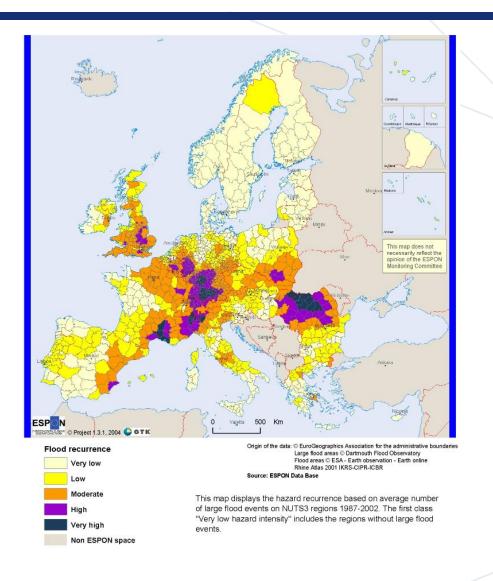
By: Antti Jakobsson

Date: 25.11.2015





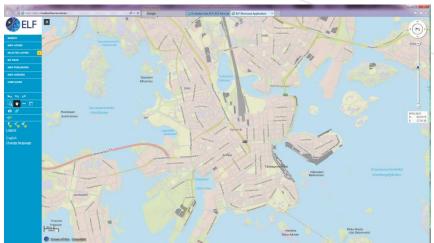
#### Flood recurrence in Europe



# Emergency does not respect borders



Helsinki





Business on the web assumes data availability

Copenhagen





### **ELF** project in a nutshell

- 30 partners, 13 National Mapping Authorities + 10 more joining
- 20 countries
- Part funded by the ICT-PSP budget,
   13 million euro
- Runs between 2/2013-2/2016 (10/2016 under negotiation)
- To deliver the European Location
   Framework (ELF) required to provide up-to-date, authoritative, interoperable, cross-border, reference geo-information for use by the European public and private sectors



www.elfproject.eu





## The ELF vision –The ELF White Paper

## A geospatial reference infrastructure

- **★** Interoperable data and services
- Full coverage of Europe
- Support international standards and INSPIRE
- Quality and metadata
- Management of national data





## **Key concepts in ELF**

- Offering
- One source for reference geo-information
  - Harmonisation
  - Cross-border management
  - License management
- Focus on use of services
- Georeferencing
- Multiple interfaces
- Quality

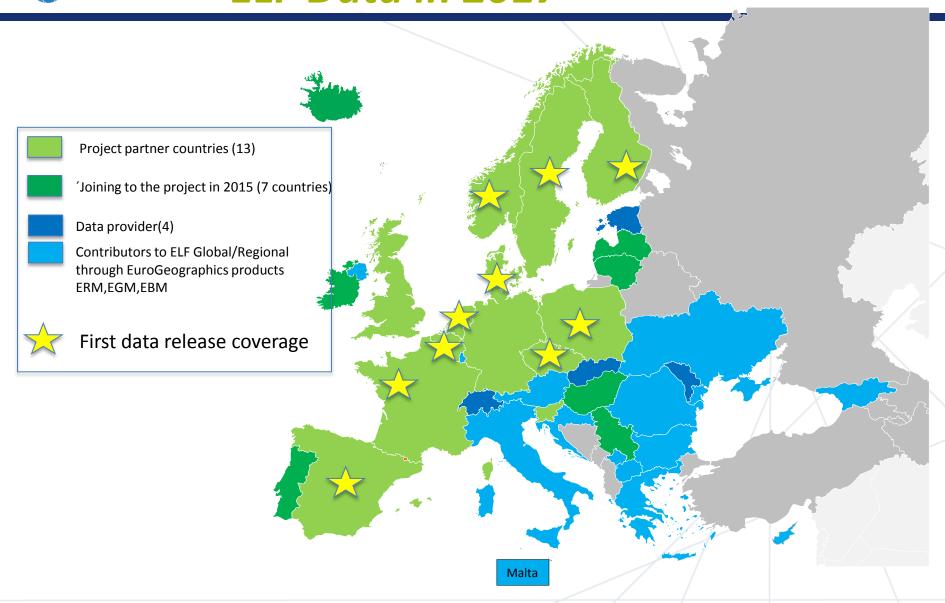
Co-operation among Authoratitave Data Providers

User Requirements

Demand



## ELF Data in 2017





## LF ENCERTOR Data Content by themes and Level of Detail

# EuroGeographics EBM/ERM and EGM

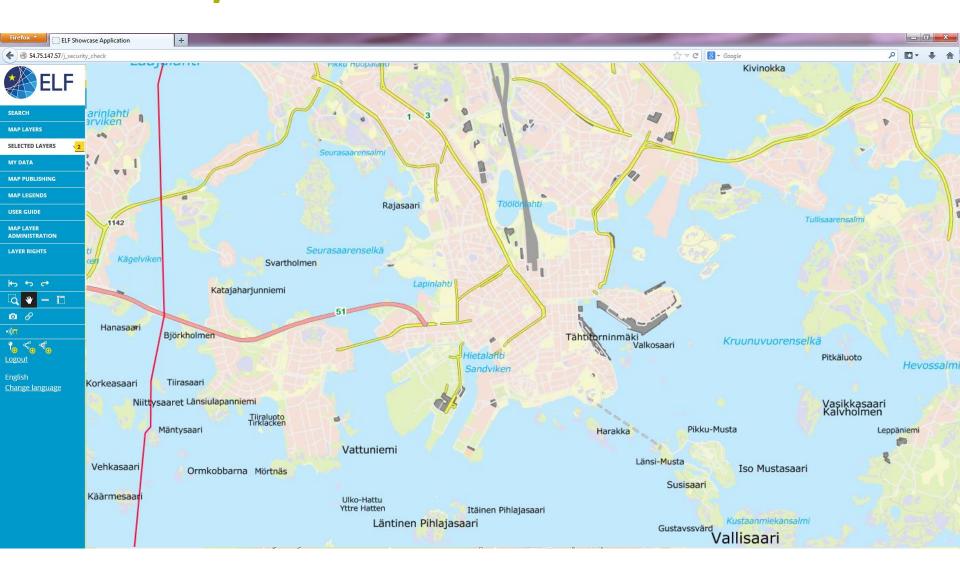
MASTER LoD0	Master LoD1/2	REGIONAL	GLOBAL
Cadastral Parcels (CP)	Administrative Units (AU)	Administrative Units (AU): AU & NUTS	Administrative Units (AU)
Addresses (AD)	Hydrography (HY)	Hydrography (HY): HY & SR	Hydrography (HY): HY & SR
	Sea Regions (SR)		
	Transport Networks (TN)	Transport Networks (TN)	Transport Networks (TN)
Geographical Names (GN)	Geographical Names (GN)	Geographical Names (GN): GN & POP	Geographical Names (GN): GN & POP
Elevation (EL)	Elevation (EL)	Elevation (EL)	Elevation (EL)
	Land Cover (LC)	Land Cover (LC): POP & VEG	Land Cover (LC): POP
Buildings (BU)	Buildings (BU)	Buildings (BU)	
	Protected Sites (PS)	Protected Sites (PS)	
		Miscellaneous (MISC)	

Geolocator — gazetteer service and address service Mttp://54.195.254.125/ Search MAP LAYERS Places Metadata Search Vantaa. SELECTED LAYERS Search results (4) MY DATA Region Type MAP PUBLISHING Helsinki (fin) Administrative units Helsinki MAP LEGENDS Ελσίνκι Helsingu **USER GUIDE**  Helsinky Helsinkis Helsingi Helsinki Helsinki Helsinki Uusimaa (fin) Helsinki Administrative units Helsinki Helsingfors Helsinki POPULATED PLACES Taivassalo (fin) Search results 8 Helsinki Helsinki (fin) Helsinki Password Helsinki (fin) Login Administrative units Change language Tienns of Use Cooxidation

Exonym database of Europe



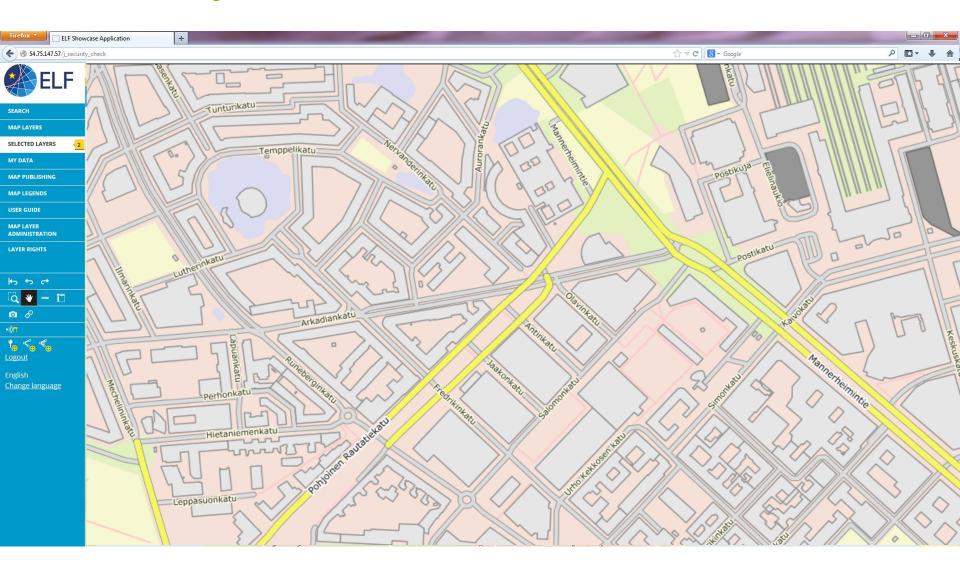
## **Basemap** — a WMTS service populated from national WMS services



Helsinki



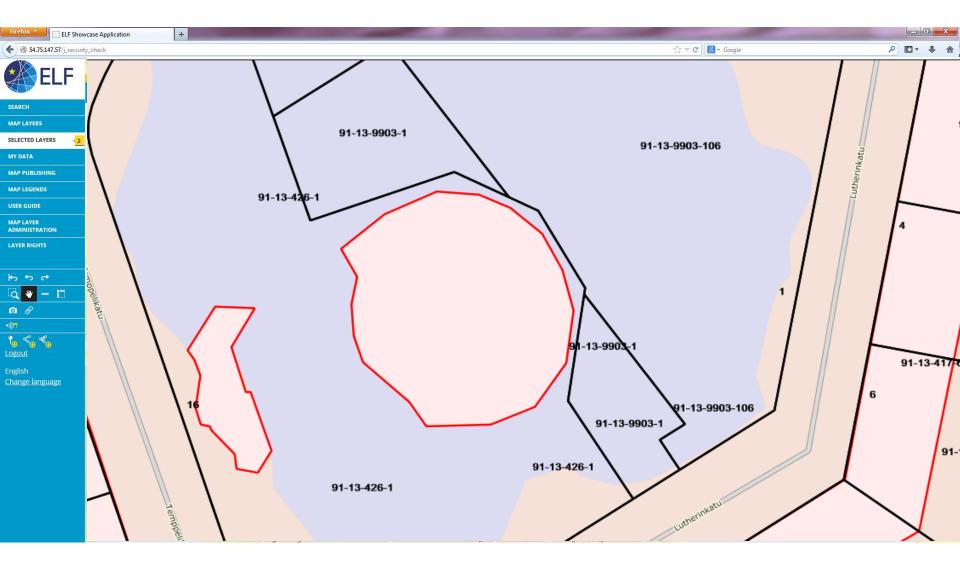
## **Basemap** — a WMTS service populated from national WMS services



Helsinki



# Cadastral Index Map — a cascading WMS service



Helsinki Get Feature Info (CP, AD) + BU,AU





#### What is ELF in connection to INSPIRE

- Arrangements within NMCAs in Europe to co-operate and provide access point to INSPIRE based services for European/cross-border use -> we are connecting ELF/INSPIRE national services for real use
- EuroGeograpics provides European Location Services for users
- NMCAs National broker role: to see that INSPIRE data services can be provided when multiple organizations are responsible
- ELF 1.0 specification is fully INSPIRE compatible
- ELF interoperability: At least INSPIRE schema and ELF schema compliance will be met, edgematching and Pan-European features are important goals
- In future ELF schemas should be considered when updating INSPIRE schemas
- ELF service = INSPIRE national service ideally!





#### **National vision on ELF?**

- ELF provides key INSPIRE services for cross-border/Europe use
- Used in reporting and other governmental duties when trusted maps needed -> for example EEA
- Co-funded by the Commission and the Member States
- Adoptation of ELF specs for some national datasets like small scale data (Global, Regional) but also Master
- Utilization of ELF at some national services (like emergency)
- Strong linkage with national e-government activities





### **ELFs role in European Public Services**









**European Cross-Border Users** 

**European Data Providers** 

OPEN/PAID



Other **Directives** 



**ISA** 

MS

nablers

GeoLocator Basemap

**Cadastral Map** 

**ELF Platform** 

Edge-matched, Joined-up, Single Access Point, Quality Checked, Security

Donwnload and View Services (Themes)

**Euro** Geographics

European Broker role

TJS

**Authoritative Reference Data** 

Other Data

**Statistics** 

**Statistics** 

NMCAS (National Broker Role)

**National Users** 

**National Data Providers** 





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



