

ELF and national SDIs/e-government/INSPIRE

Presentation to: National SDIs/INSPIRE

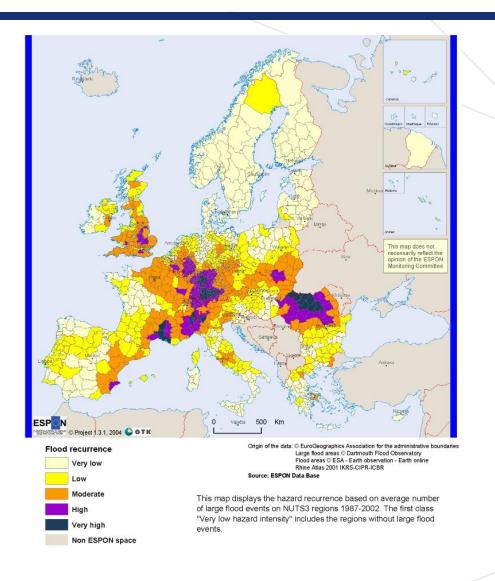
By: Antti Jakobsson

Date: 25.11.2015





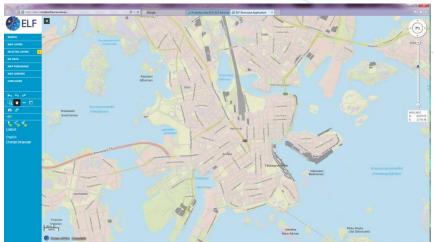
Flood recurrence in Europe



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)
- 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

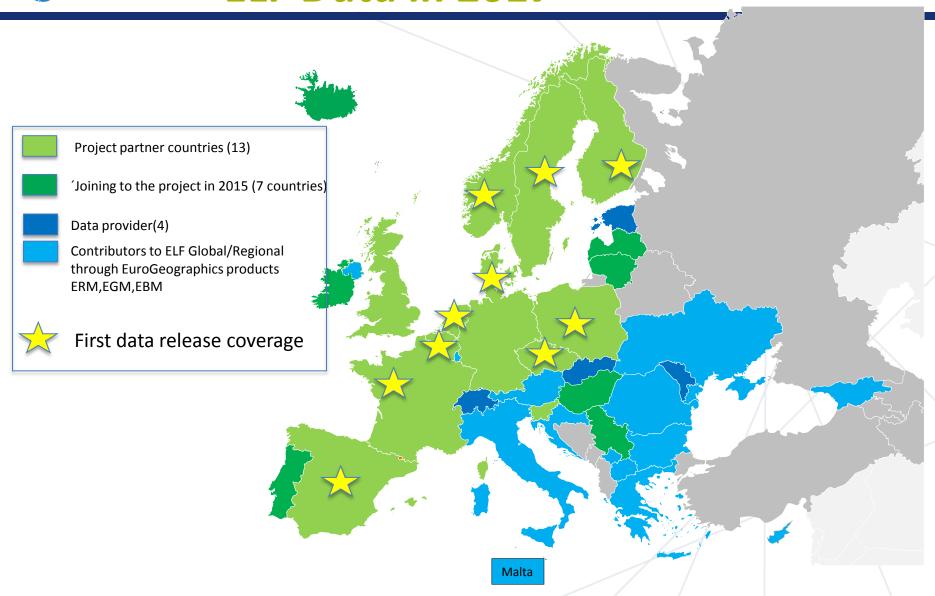
Co-operation among Authoratitave Data Providers

User Requirements

Demand



ELF Data in 2017





LF ENCERTOR Data Content by themes and Level of Detail

EuroGeographics EBM/ERM and EGM

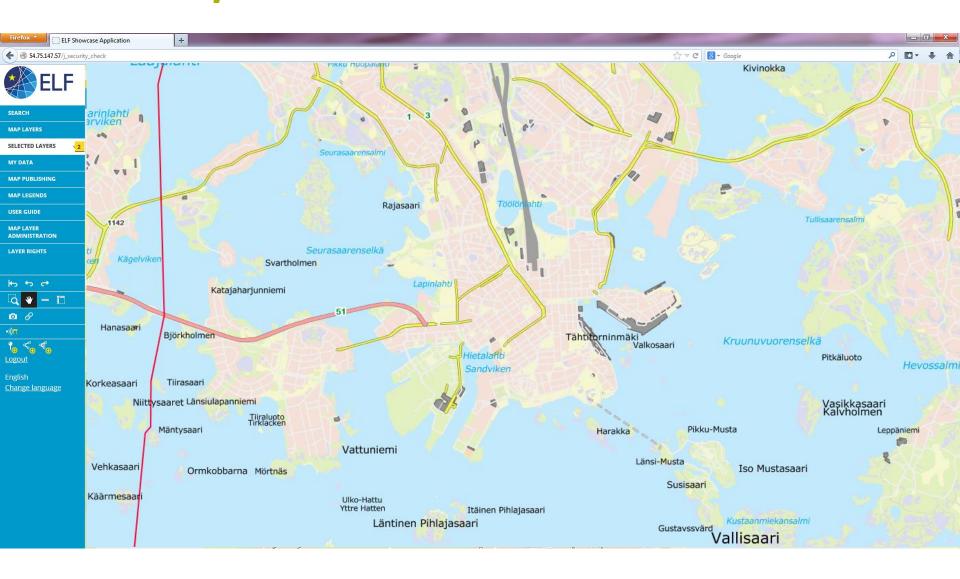
Master LoD1/2	REGIONAL	GLOBAL
Administrative Units (AU)	Administrative Units (AU): AU & NUTS	Administrative Units (AU)
Hydrography (HY)	Hydrography (HY): HY & SR	Hydrography (HY): HY & SR
Sea Regions (SR)		
Transport Networks (TN)	Transport Networks (TN)	Transport Networks (TN)
Geographical Names (GN)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

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



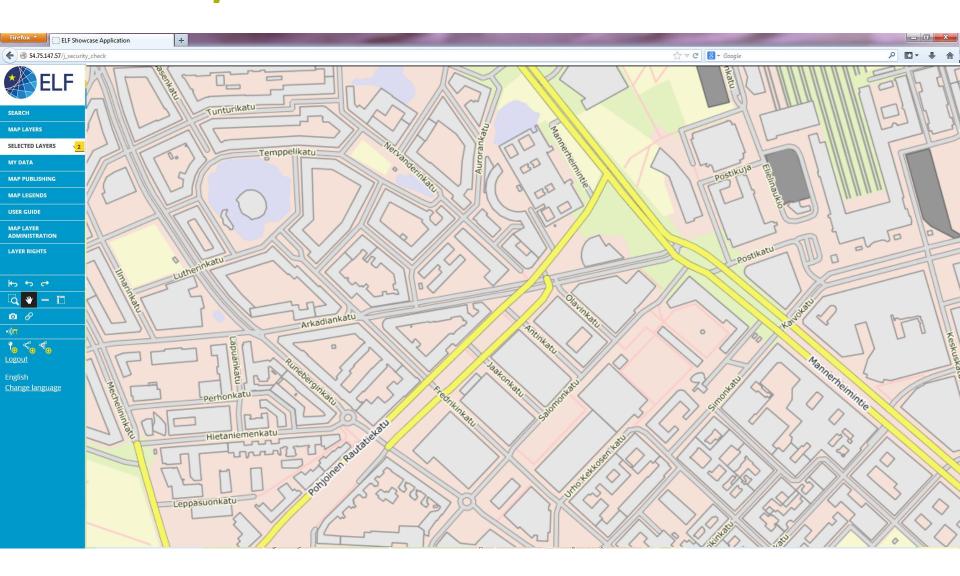
Basemap — a WMTS service populated from national WMS services



Helsinki



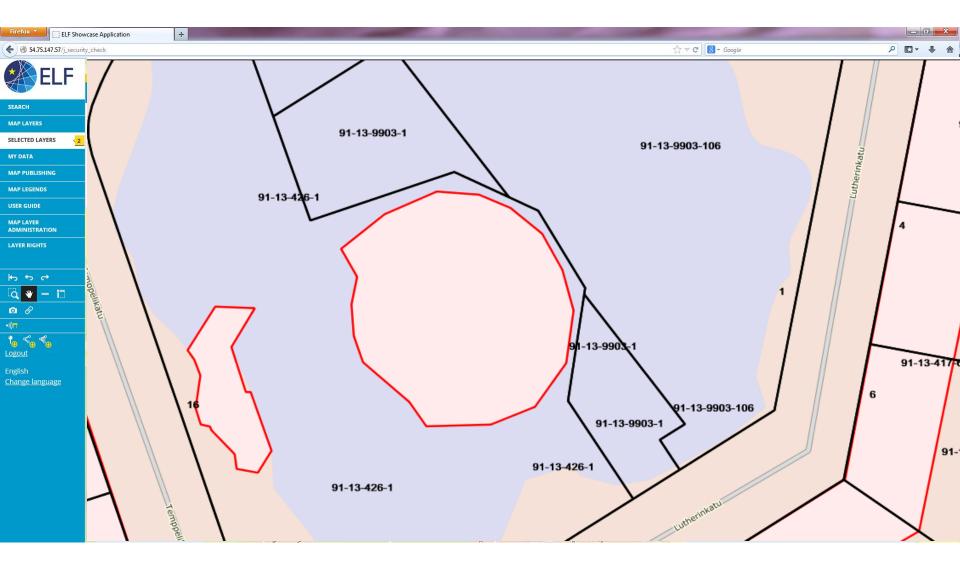
Basemap — a WMTS service populated from national WMS services



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



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



