

ELF- Providing Platforms for Accessing INSPIRE Based Reference Data



Presentation to: Geospatial World Forum 25-29 May 2015

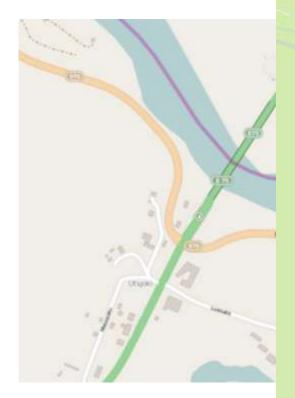
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Date: 27h May 2015

Why ELF?









Crowdsourcing

Authoritysourcing = ELF

National Service





ELF project in a nutshell

- 30 partners, 13 National Mapping Authorities + 10 more joining
- 19 countries
- Part funded by the ICT-PSP budget,
 13 million euro
- Runs between 2/2013-2/2016 (8/2016 proposed)
- 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

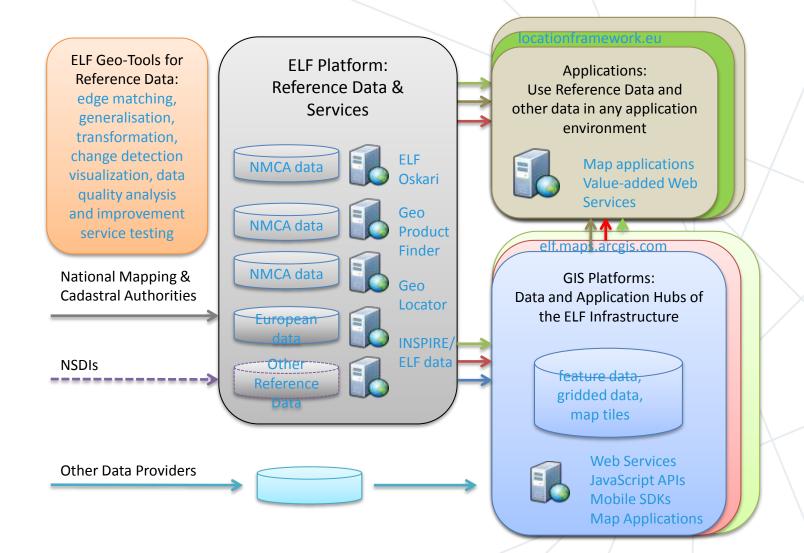


www.elfproject.eu



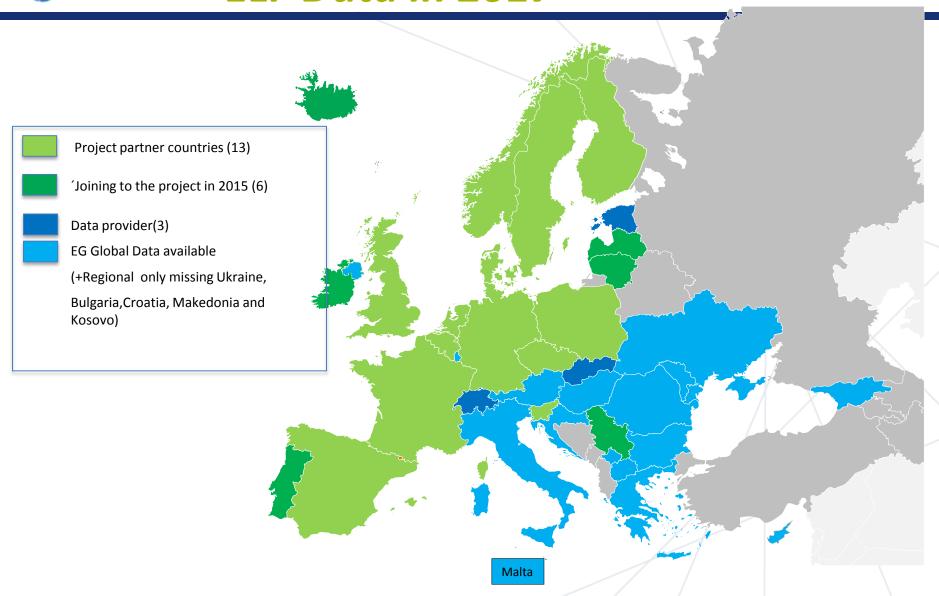


ELF Components





ELF Data in 2017





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)	



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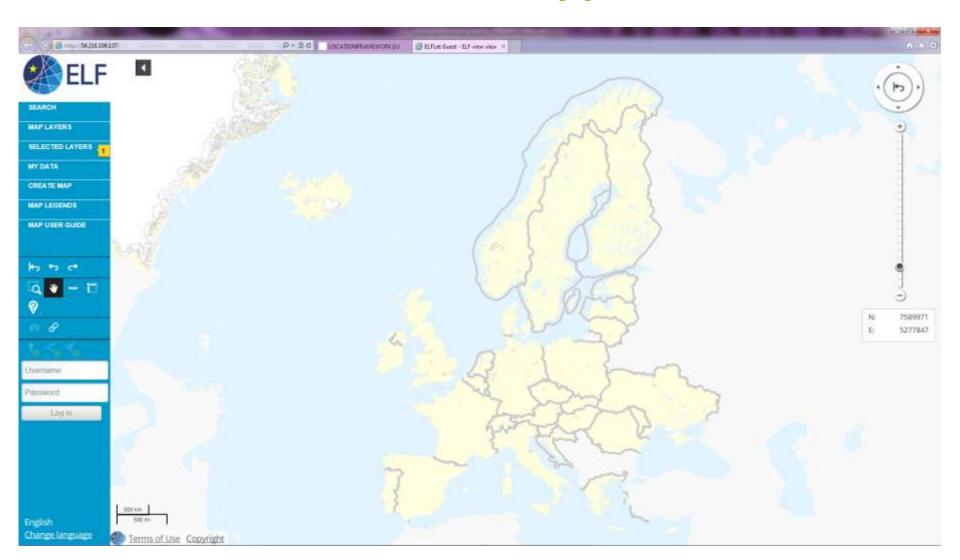
ELF preoperational launch at the INSPIRE conference
June 2014

Locationframework.eu

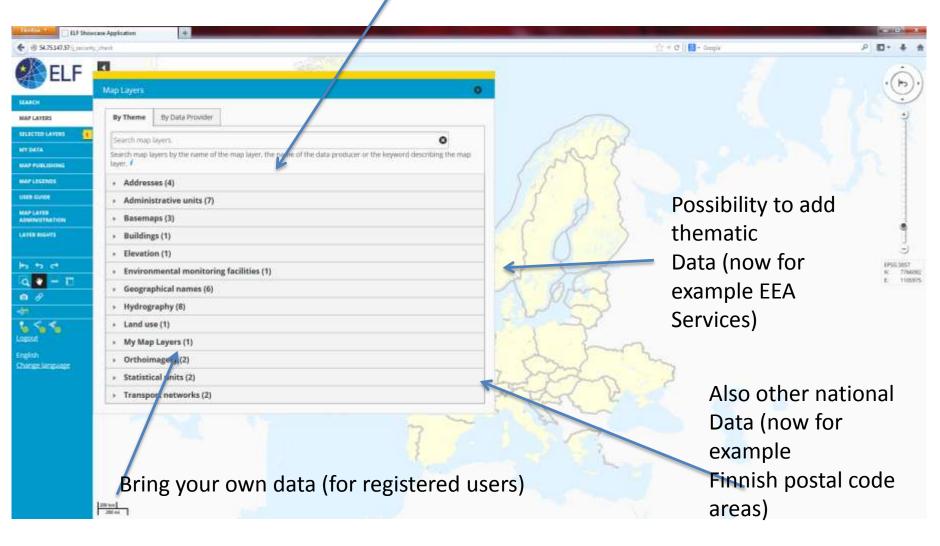
- Showcase Application demonstration what is available
- ArcGIS Online access point
- Documentation (access point to services)
- (Registration)
- (GeoProductFinder)



Oskari Showcase app

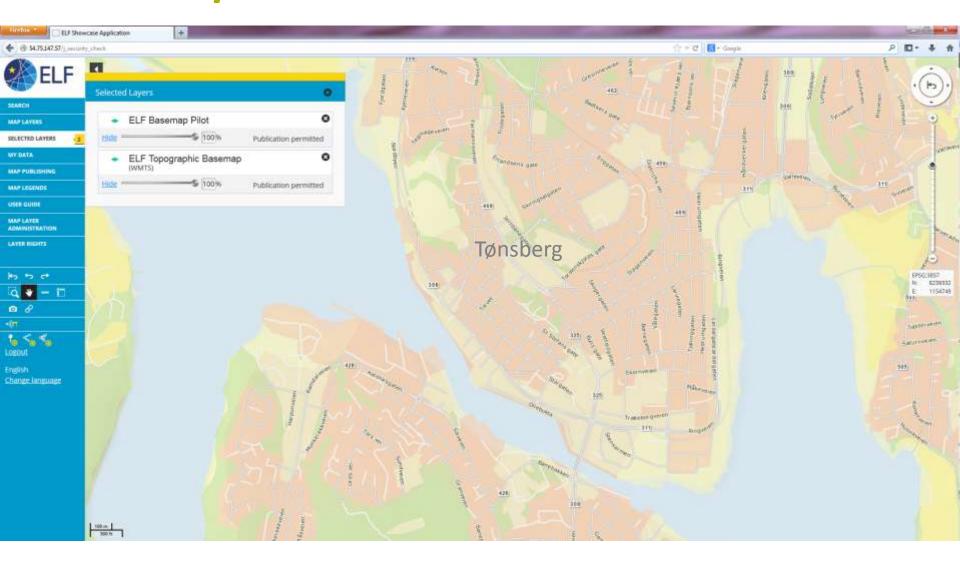


Available services



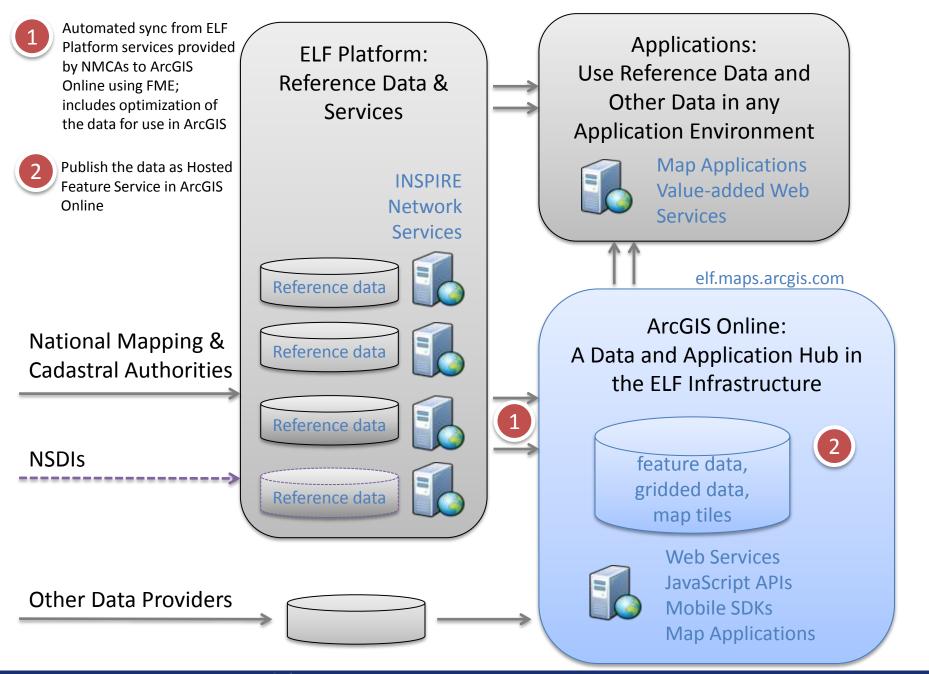
Currently 40 national services available -> 104 by end 2015

Basemap — a WMTS service populated from national WMS services



Master level now piloted – Norway, Finland, Sweden and Netherlands







ELF in ArcGIS Online

http://elf.maps.arcgis.com/

HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION

Clemens -





Welcome to the European Location Framework (ELF) in ArcGIS Online - a single point of access for harmonised reference data from National Mapping, Cadastre and Land Registry Authoritities for users of the ArcGIS platform. The European Location Framework aims at fostering the wider use of geo-information in Europe and enable the creation of innovative value-added services.

Cloud GIS platforms like ArcGIS Online are hubs of the ELF infrastructure. They integrate feature data and





ELFs role in European Public Services (ELF2)











European Cross-Border Users

European Data Providers

OPEN/PAID



Other **Directives**



ISA

MS

nablers

GeoLocator Basemap

Cadastral Map

ELF Platform

Donwnload and View Services (Themes)

Euro Geographics

TJS

European Broker role

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

Other Data

Statistics

Statistics

Authoritative Reference Data

NMCAS (National Broker Role)

National Users

National Data Providers



A scenario - ELF-EULF-ITS



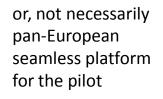
compelling transportation pilot(s)

ITS map providers – application providers

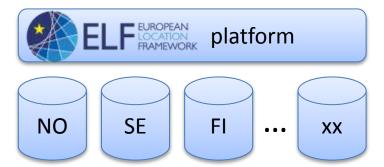
ELF (INSPIRE) TN information as WFS, WMS



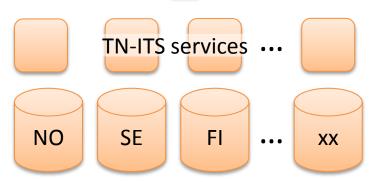
pan-European seamless platform



TN-ITS (enhanced ROSATTE) feed



TN data coming from mapping agencies and road administrations - combined

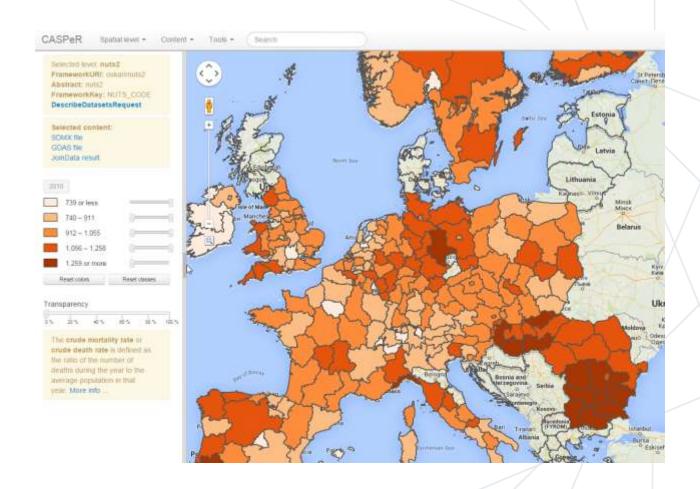


national road databases

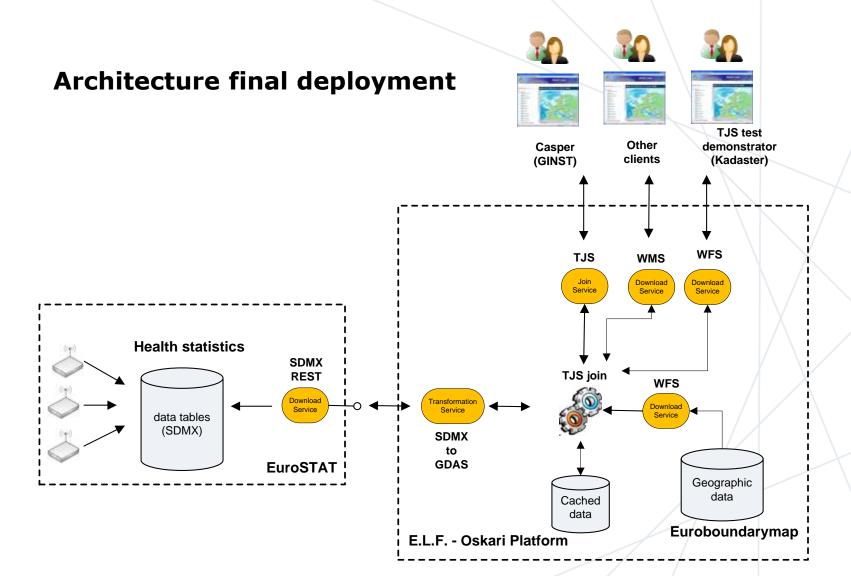




Heath Statistics application - CASPER Client







Additional features we are working on

- Administrative (WMS) and Topographic Basemap (WMST)
- ELF Cadastral Map WMS supporting Feature Info, Service uses national CP,AU,BU,AD WMS
- Orthophoto inclusion
- More national download services
- National Tours and ELF Innovation Award 2016
- Thematic Data
- More features in Geo Product Finder (user feedback, licenses, quality)
- Publish own embedded maps (using Showcase app)
- TJS (using EuroBoundaryMap)



What benefits does ELF provide?



- Creates business opportunities in Europe (startups, application developers, SMEs)
- Linking national INSPIRE services through ELF e.g. for EC / EEA Copernicus, PSI etc.
- Provides INSPIRE services on behalf of the MS;
- edgematching, combined services, access to services, licences, open data...
- Regional co-operation with neighbourging MSs
- Use ELF nationally when needed to use similar data from other countries e.g. Cross border security, migration trends, etc.
- Improves interoperability and quality of Public Sector Information
- ELF is already in the pre-operational phase (Applications using it already developed and extension for more applications will start 2016)





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See what is available www.locationframework.eu