
The European Location Framework (ELF) Project – One Source for Reference Geo- Information for Europe

ELF – příklad mezinárodního mapového
díla ve smyslu INSPIRE

ELF - pozadí

- 1) V zemích EU jsou pravidla dána evropskými právními předpisy - Směrnice, Nařízení a Rozhodnutí, včetně harmonogramu implementace, a prováděcími pravidly.
- 2) Směr a rámec určují strategické a rámcové dokumenty EU.
- 3) Interoperabilitu dat, služeb, technologií umožňují mezinárodní technické normy a standardy (ISO, OGC aj.)

- Europe 2020
- PSI
- INSPIRE
- EuroGeographics

European Interoperability Framework (EIF)

- The purpose is:
- to promote and support the **delivery of European public services** by fostering **cross-border and cross-sectoral interoperability**;
- to guide **public administrations** in their work to provide European public services to businesses and citizens;
- to complement and **tie together** the various **National Interoperability Frameworks (NIFs)** at European level.

Úrovně interoperability

Cooperating partners with compatible visions, aligned priorities, and focused objectives

Political Context

Aligned legislation so that exchanged data is accorded proper legal weight

Legal Interoperability

Legislative Alignment

Coordinated processes in which different organisations achieve a previously agreed and mutually beneficial goal

Organisational Interoperability

Organisation and Process Alignment

Precise meaning of exchanged information which is preserved and understood by all parties

Semantic Interoperability

Semantic Alignment

Planning of technical issues involved in linking computer systems and services

Technical Interoperability



Interaction & Transport

The ELF project

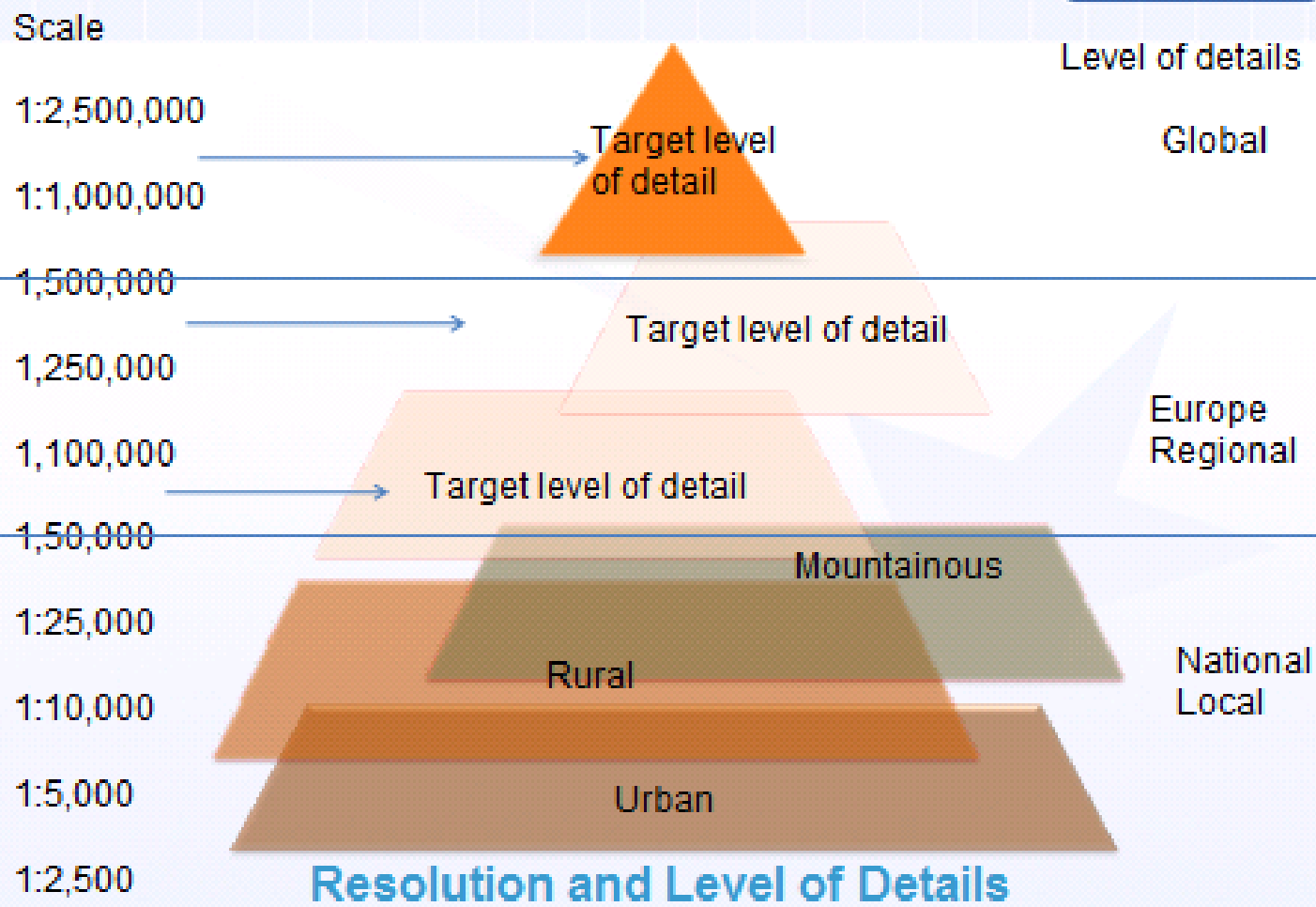
www.elfproject.eu

- ★ Řešený v rámci **programu CIP** (ICT PSP) jako evropský **pilotní projekt typu A**. Podíl financování je 50:50.
- ★ 30 organizací sdružených v konsorciu ELF.
- ★ V první fázi je spolu s EG zapojeno 15 národních mapovacích a katastrálních úřadů/agentur (NMCA).
- ★ Projekt ELF je strategickým projektem EuroGeographics (EG) a je plánováno zapojení dalších členů (NMCA).
- ★ Projekt je tříletý (od 1. března 2013 do léta 2016) a je rozdělený do 3 projektových etap.

Cíle projektu ELF

- ★ Postupně zajistit bezešvé, aktuální datové sady a služby ELF založené na aktuálních referenčních prostorových datech evropských NMCA a 
- ★ udržitelným způsobem je poskytovat na platformě ELF.
- ★ Praktické užití těchto dat evropského rozsahu demonstrovat pomocí tematických aplikací dalších poskytovatelů (za účasti soukromého sektoru).
- ★ Jednotnou podobu dat a služeb v Evropě zajistit:
 - s užitím evropských právních předpisů a technických pravidel INSPIRE;
 - navázat na výsledky a nástroje vzešlé z evropských projektů ERM, EGM, EGN, ESDIN aj.

ELF Návaznosti



Zájmová data ELF podle LoD

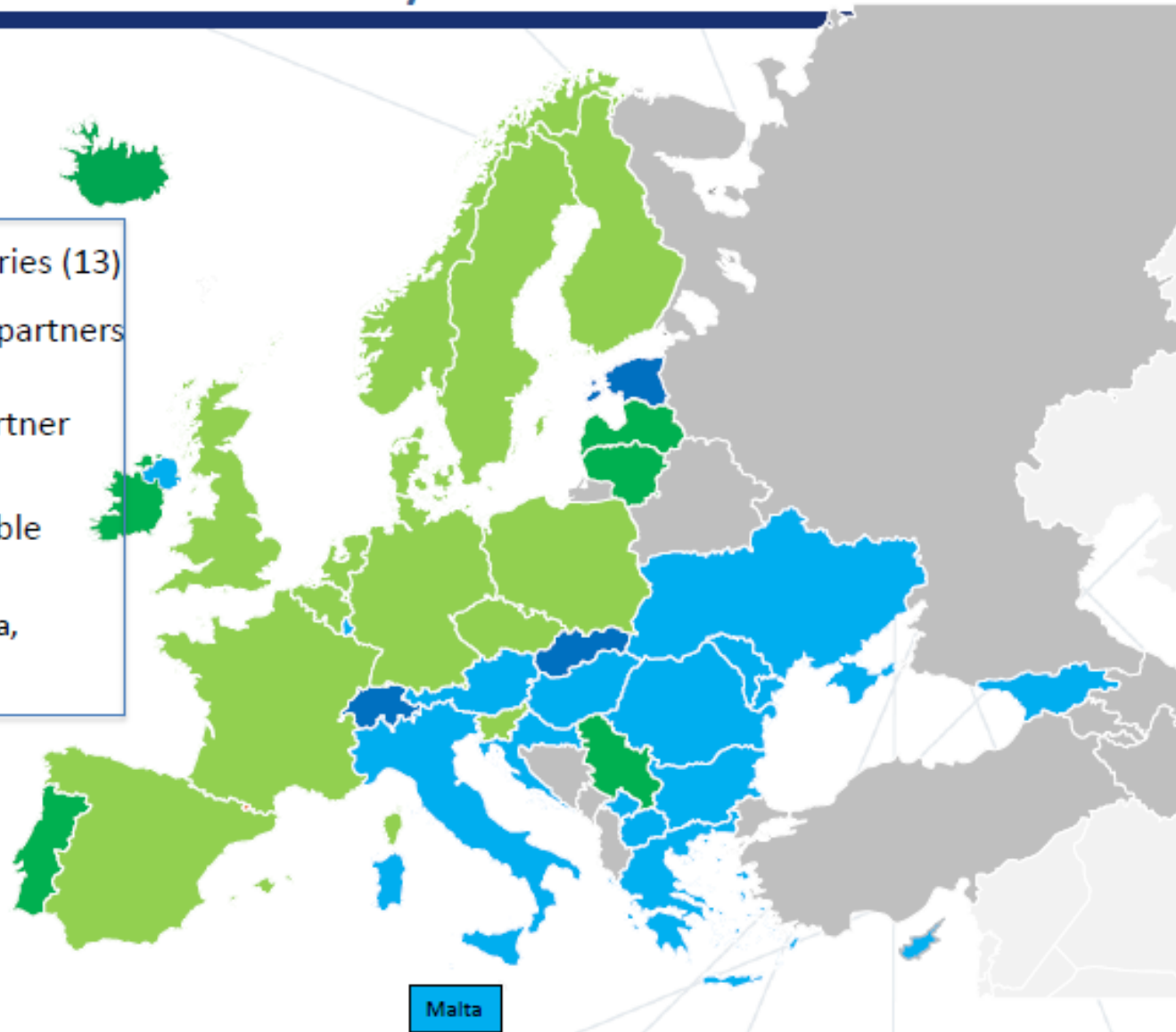
MASTER LoD0	Master LoD1/2	REGIONAL	GLOBAL
Cadastral Parcels (CP)	Administrative Units (AU)	Administrative Units (AU): AU & NUTS	Administrative Units (AU)
Addresses (AD)	Hydrography (HY)	Hydrography (HY): HY & SR	Hydrography (HY): HY & SR
	Sea Regions (SR)		
	Transport Networks (TN)	Transport Networks (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)	

Témata

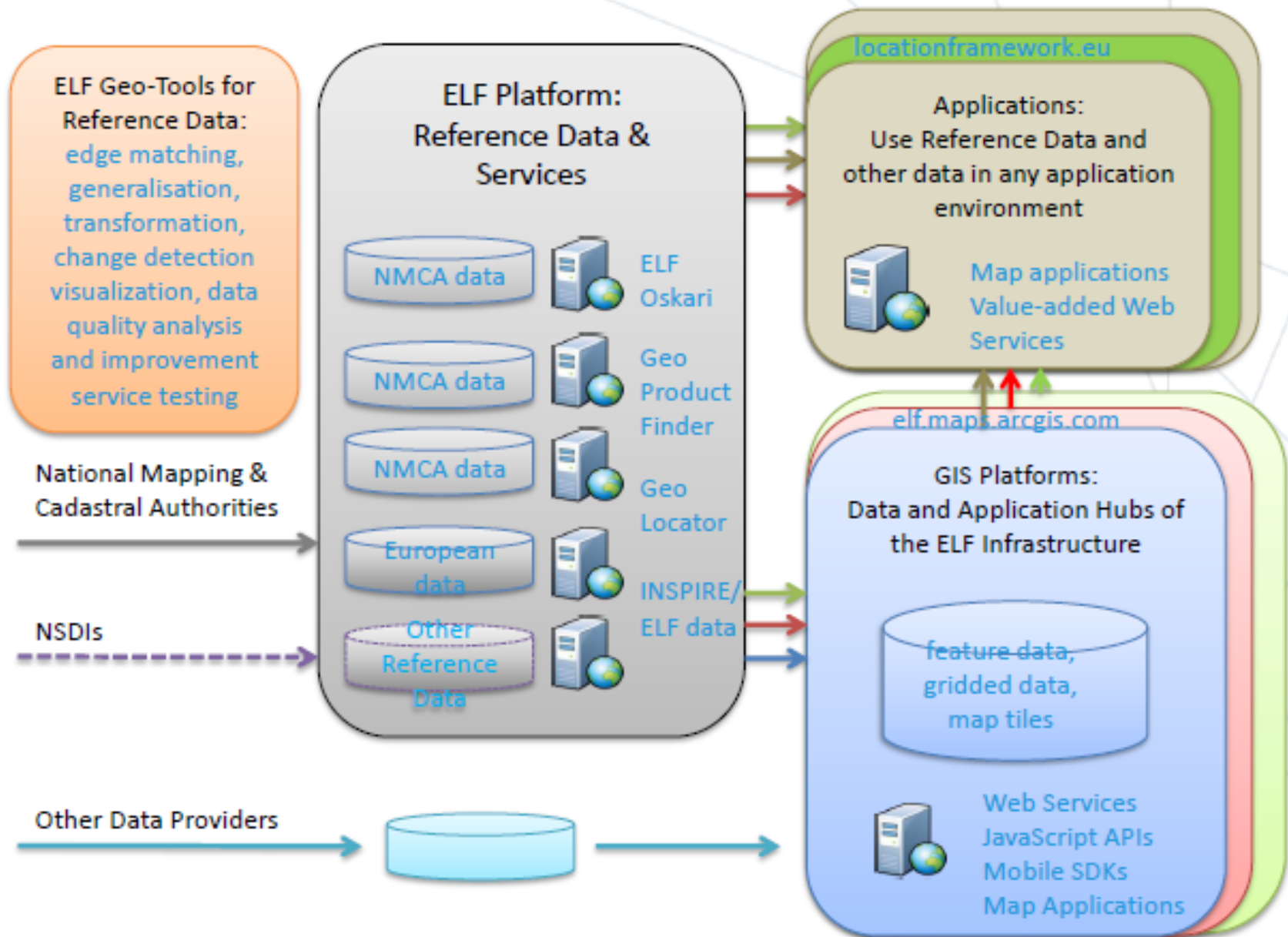
Odpovídají následujícím datovým specifikacím v rámci INSPIRE:

- Administrative Units (AU)
- Hydrography (HY)
- Transport networks (TN)
- Geographical names (GN)
- Cadastral parcels (CP)
- Addresses (AD)
- Elevation (EL)
- Buildings (BD)
- Land Cover (LC)/Land Use (LU)
- Orthoimagery
- **A vybrané doplňkové prvky z INSPIRE Annexes II a III.**

-  Project partner countries (13)
-  Joining the project as partners in 2015 (6)
-  Data provider, not partner (3)
-  EG Global Data available
(+Regional only missing Ukraine, Bulgaria, Croatia, Macedonia and Kosovo)



Komponenty ELF



ELF produkty

- ★ ELF Topographic BaseMap: WMTS
- ★ ELF Cadastral (Index) Map: cascading WMS using Cadastral Parcels, Administrative Units, Buildings and Addresses, support GetFeatureInfo functionality
- ★ ELF EuroDEM: WCS/WMS, based on EuroDEM
- ★ ELF Administrative BaseMap: WMS using EuroBoundaryMap
- ★ ELF GeoLocator: geo-referencing API using Geographical Names, Addresses, Administrative Units and Cadastral Parcels Indexes
- ★ Download Services: available as national WFSs and cascading WFSs for AU, GN, HY, LC, TN road, rail, water, air, cable, EL, BU, AD, CP, PS and SR. Also Regional and Global data available. This is supported by WMS as well.

Co přinese ELF pro VARs?



- ★ Creates business opportunities in Europe for start-ups, existing application developers... by combining reference data with - for instance - statistical data, environmental data and so on

www.locationframework.eu

- Demo running currently at <http://54.228.221.191/ELFOskari/applications/elf/elf-oskari-openlayers/index.html>

The screenshot shows a web browser window displaying a map application. The browser's address bar shows the URL <http://54.228.221.191/ELFOskari/applications/elf/elf-oskari-openlayers/index.html>. The browser's title bar reads "ELF Oskari - Windows Internet Explorer". The browser's address bar also shows the text "Suositit". The browser's address bar also shows the text "(9) Documents - E.L.F. WP...". The browser's address bar also shows the text "ELF Oskari". The browser's address bar also shows the text "Sivu Suojaus Työkalut". The browser's address bar also shows the text "Bing". The browser's address bar also shows the text "1".

The map application displays a map of Europe, centered on the region around Brussels, Belgium, and extending to the west coast of Germany. The map shows major cities such as Brussels, Leuven, Maastricht, Aachen, Cologne, Düsseldorf, Essen, Dortmund, and Frankfurt am Main. The map is overlaid with a grid of green and orange lines, representing a spatial data layer. A "Map layers" panel is open on the left side of the map, showing a list of layers under the heading "Map layers". The panel has two tabs: "By theme" and "By data providers". Under "By theme", there are two layers listed: "ERM (1)" and "MTK (1)". The "ERM (1)" layer is currently selected. The "Map layers" panel also has a search box and a close button. The map application also includes a navigation toolbar on the right side, with a compass, a zoom slider, and a search box. The search box contains the text "N: 2746400" and "E: 3512928".

ELF Technologie

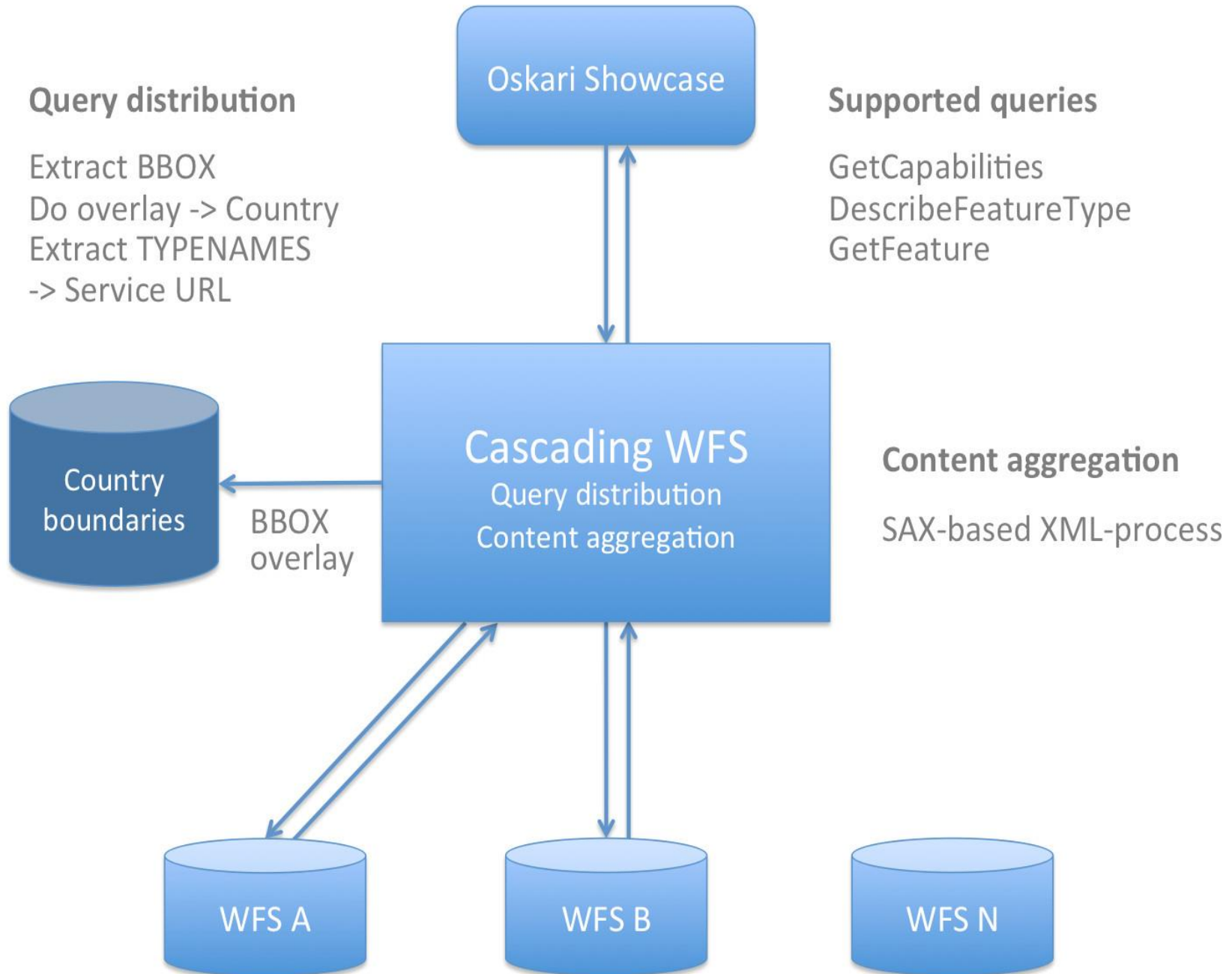
- Co je to kaskádování služeb podle OGC?
- Naplnění základních principů INSPIRE – efektivní budování ESDI.
- Základní problém – ke které národní službě je nutné přiřadit dotaz WFS GetFeature.
- Založeno na Bbox a prostorovém dotazu na státní hranice, následná distribuce dotazu na národní WFS službu.
- Agregace obsahu (WFS!)
- Klientské aplikace.

Query distribution

Extract BBOX
Do overlay -> Country
Extract TYPENAMES
-> Service URL

Supported queries

GetCapabilities
DescribeFeatureType
GetFeature



Content aggregation

SAX-based XML-process



ELF EUROPEAN
LOCATION
FRAMEWORK

ONE SOURCE FOR
REFERENCE GEO-
INFORMATION
FOR EUROPE

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ABOUT ELF

Welcome to the web site for the European Location Framework (ELF) Project. Launched in March 2013, the project will run for three years and deliver open European location information and web services to build on the existing work of the INSPIRE Directive and enable access to harmonised data in cross border applications.

Used to areas such as emergency mapping, the project will help save lives; in commercial use it will help boost productivity and create jobs.

Latest News

ELF Project at ICC Dresden
Thursday, August 22, 2013 - 10:30
If you are attending the International Cartographic Conference (ICC 2013) next week (August 25-30) in Dresden, Germany, then do come along to...
[Read more](#)

News on the ELF Project from the INSPIRE Conference
Friday, June 28, 2013 - 15:30
The city of Florence was this year's the location for the INSPIRE Conference which this year featured a joint European Location workshop bringing...
[Read more](#)

UPCOMING EVENTS

European Forum for Geostatistics
Sofia, Bulgaria
Wednesday, October 23, 2013 to Friday, October 25, 2013

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ELF Project 22 Aug
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The ELF Project team will

www.elfproject.eu coming www.locationframework.eu