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

Presentation to: ICC Dresden

By: Antti Jakobsson, Technical Coordinator

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The ELF project
www.elfproject.eu

Started 1st March 2013
36 months project
30 Partners
★ EuroGeographics
★ 15 NMCAs
★ 3 service integrators
★ 6 application developers
★ 2 universities
★ 3 user community representatives

Three phases
We combine reference geo-information offering through the ELF platform (run by the authoritative data providers in their countries) -> cost-effective based on INSPIRE, easy use

Target European, Cross-border and National use

Several ELF based cloud platforms (in the beginning ESRI ArcGISOnline, Open Source Oskari Platform) but envisage more in the future (could be through INSPIRE platform, open data platforms, National platforms) -> Flexible architecture

New Basemap service for Europe based on authoritative up-to-date sources offering many visualizations

Support of European languages

Geo Locator service based on geographical names, addresses, administrative units

Geo-tools for making national data interoperable

Finding and accessing reference data at source (Geo Product Finder)

Linkage with other content (national or thematic)

Easy Web Maps for Applications through Open & ArcGisOnline platforms
Needed components
Specifications

★ Data Specifications
★ Data Maintenance and Processing
★ Specifications for Content Services
Data Maintenance & Processing Specifications

Generalisation

- Master
- Regional

Visualisation

- Map for Europe (ELF Basemap)

Data Maintenance & Processing

Update

Data Aggregation

Data Quality

25 June, 2013
Geo-Tools

Edge-matching Tool

Consistency of data

Automatic Online Quality Validation

GeoProduct Finder

⭐ Visualisation

⭐ Generalisation

The users perspective is our focus
- Users are not interested in our struggles for finding the perfect license
- The users focus is fit for purpose
- Users want automated processes to find and acquire datasets and services
- Technical, legal and administrative concerns should mark the back
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<th>Content</th>
<th>Products &amp; Services</th>
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Technical Architecture
User and third party content

- Connecting public services to ELF
- National and Regional SDIs
- EULIS
- EU portals
- Global (UNGGIM)
- Open data
- Identification of needed content and services
- Land Cover/Land Use
- EUDEM30
- Orthoimagery
- Hydrology
- Postal Code Areas
- Railways
- Transport
- Providing E.L.F. platform to aggregated services and content
- Industry and VARs
Service instances - applications

- Business
- Education
- Defence
- Utilities and Communications
- Transportation
- Health & Human Services
- Government
- Natural Resources
- Public Safety
- Emergency Mapping
- Health Statistics
- Community Portal
- INSPIRE Geoportal
- Community Maps (ESRI)
- Open Source Code Sprints
- ELF Oskari Open Source demo site
- Real Estate
- Insurance/Reassurance app
- Apps...

ELF: European Location Framework

the Competitiveness and Innovation framework Programme (CIP)
ICT Policy Support Programme (PSP) Call 6 Grant 325140
EUROPEAN LOCATION FRAMEWORK
ELF Oskari Web Map Application and Platform

Technical Architecture

www.oskari.org
www.locationframework.eu
ELF Cloud (ArcGIS Online)

Intelligent Web Maps Can Be Used Everywhere

- Enhancing Access and Collaboration

- Some of the ELF data available in the Cloud
- ArcGis Online Cloud implementation
- Web Maps for applications
ELF Benefits and Challenges to INSPIRE and e-government

- Added value by providing reference maps (Basemap Europe)
- Authorative data (data quality)
- Easy to get access to reference data and services
- Quality of Service
- Consistency
- Additional Content
- Management of licenses

- Governance of e-government and INSPIRE
- Implementation based on INSPIRE national services -> some of the features not required by the directive
- Data quality varies at countries
- Coverage
- Sustainability
- Different national data policies
In short ...

- Showing that the NMCAs can contribute to – or, make - a real European SDI
- Showing how government, industry and academia can work together
- Thus, demonstrating what a region can achieve when co-operating and interoperating
- Defining and promoting the role of EuroGeographics
- Pointing forward to a global geospatial information management
How can you benefit and contribute?

Become a part of the ELF community!

**Benefits**
- Moving from Data to Services
- Project results, esp. GeoTools are open and can be used for national tasks
- Contribution and impetus for the INSPIRE implementation

**Contribution**
- Your experience with INSPIRE and in any cross-border projects is important!
- Your data and services achieving a better European coverage
ONE SOURCE FOR REFERENCE GEO-INFORMATION FOR EUROPE

www.elfproject.eu coming www.locationframework.eu