

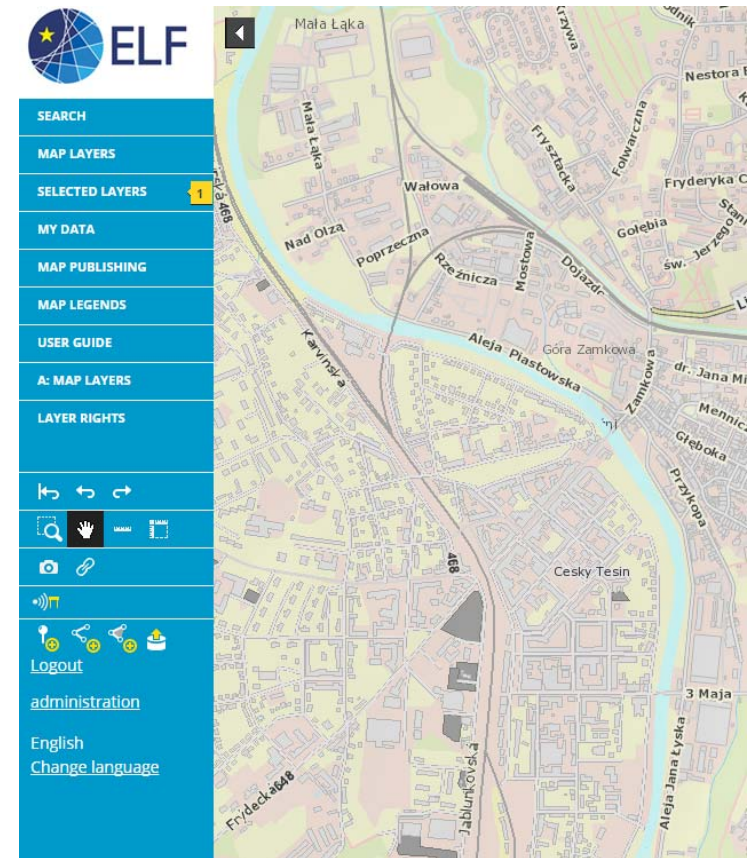
# ELF Land Cover Vector Products

Teemu Saloriutta  
INSPIRE Land Cover and Land Use workshop  
27.9.2016



# ELF project

- European Location Framework
- Project time: March 2013 – October 2016
- Goal:
  - Deliver a pan-European cloud platform and web services to build on the INSPIRE Directive
  - Enable access to harmonised data in cross border applications.



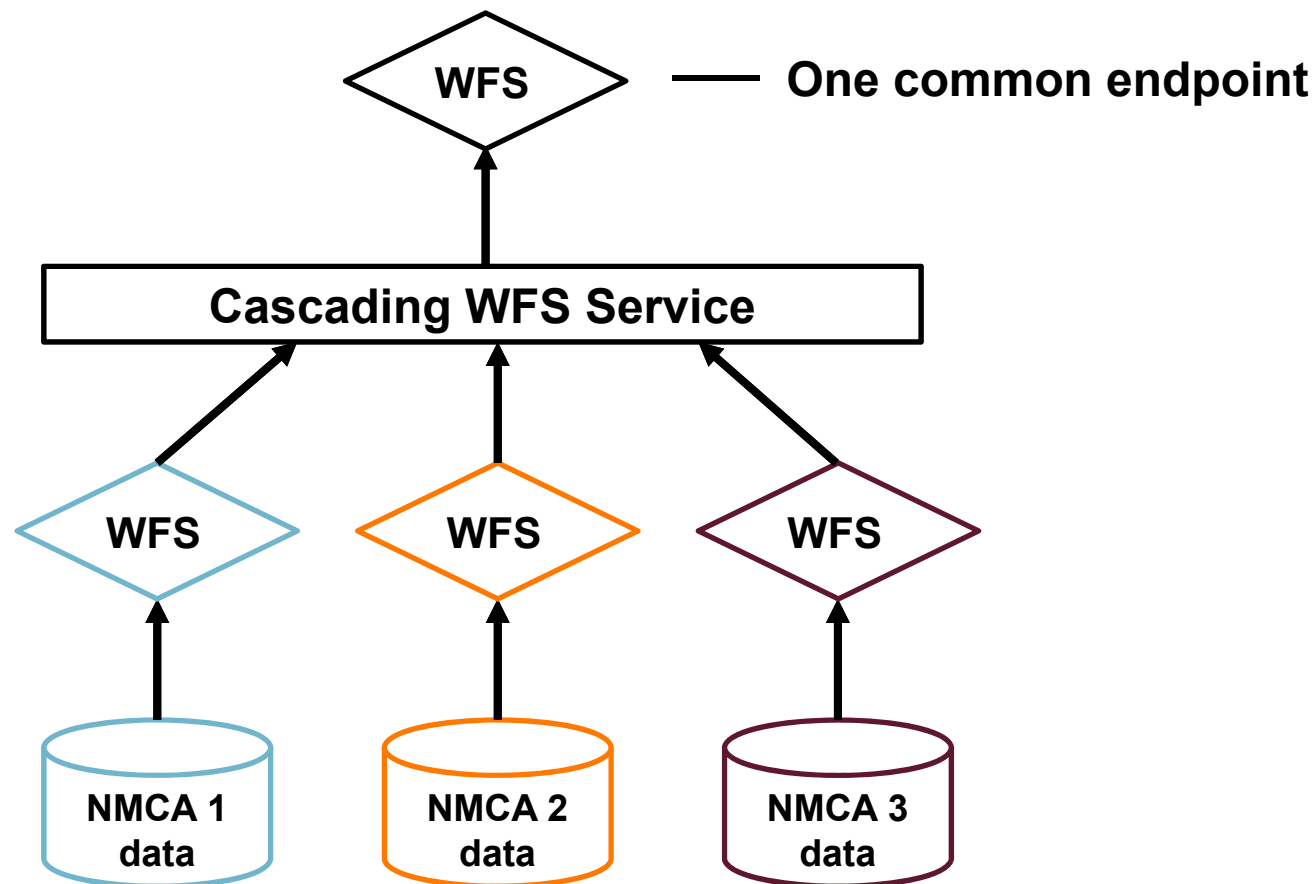
# ELF project

- More than 20 countries participating
- INSPIRE themes covered:
  - Addresses
  - Administrative Units
  - Buildings
  - Cadastral Parcels
  - Elevation Vector Elements
  - Geographical Names
  - Hydrography Physical Waters
- Hydrography Network
- **Land Cover**
- Protected Sites
- Air Transport Network
- Rail Transport Network
- Road Transport Network
- Water Transport Network
- Sea Regions

# ELF WFS services

- Some themes, **including Land Cover**, use INSPIRE application schemas directly
  - Some themes have ELF schemas with minor extensions to INSPIRE
- ELF project partners are mostly National Mapping and Cadastral Agencies
  - Not necessarily the best national source for Land Cover theme!
  - Land Cover currently delivered only by Finland, Sweden, Norway and Denmark

# ELF Technical infrastructure



# ELF Topographic Basemap

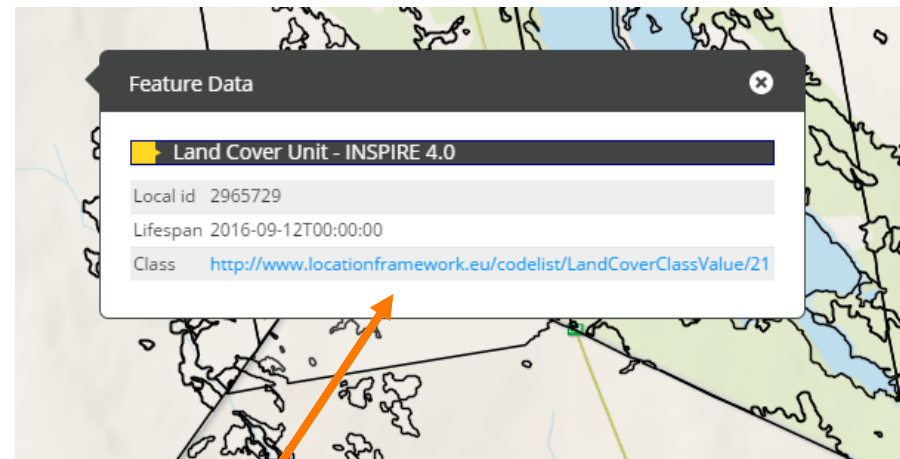
- Land Cover is one of the main themes presented in the **ELF Topographic Basemap WMTS** service
- Basemap is based on common data model and styling rules



# Example: ELF Land Cover WFS at FIN-NOR border



# Example: ELF Land Cover at FIN-NOR border



```
<skos:Concept rdf:about="LandCoverClassValue/21">  
  <skos:prefLabel xml:lang="en">Open Vegetated Area</skos:prefLabel>
```



# Land Cover classification in ELF

- The Land Cover Class codelist is based on concepts from the Pure Land Cover Component (PLCC) and the EAGLE matrix
  - Both of them are implementations ISO 19144-2 Geographic information – Classification systems – Part 2: Land Cover Meta Language (LCML)
- <http://www.locationframework.eu/codelist/LandCoverClassValue.html>

# Demo

- ELF services can be viewed on <https://demo.locationframework.eu/>
  - Opened for guest users on 26th September
- Download services will be available via ELF Licence Manager later

# Conclusion

- ELF download services are INSPIRE compliant pilot services
- Source data is not consistent between countries
  - Not necessarily delivered by the same organisation that is responsible for INSPIRE services
  - Data is not covering 100 % of the land area

# More information

[teemu.saloriutta@nls.fi](mailto:teemu.saloriutta@nls.fi)

