Conclusions
EuroGeographics point of view
Workshop learnings
Drivers

- Is there any need for INSPIRE data?
  - Not really: users don’t care about INSPIRE data
  - They want data
    - Easy to access
    - Standardised
      - Reproducible results across Europe
      - Reproducible results across time (sustainability)
  - May be INSPIRE, pan-European products (EBM, ERM, EGM), CityGML, CRD … but also OSM

INSPIRE principles
Drivers

• Various requirements towards data harmonisation (and quality)
  
  - Very simple content; WMS + INSPIRE portrayal rules might be enough (Baltic Lines)
  
  - Range of harmonisation degrees
    
    - Common core content
    
    - Homogeneous LoD
    
    - Common data models
    
    - Edge-matching, geometry harmonisation
    
  - ...
Potential users

- Official global or European key players
  - United Nations
  - World Bank
  - European Commission (EEA, Eurostat, …)

- Private companies
  - Big companies in Transport sector: NavTeq then HERE, …
  - IT companies
  - Start-up (in Sun we Trust)
  - …

Provide data credibility
Potential users

- National public bodies
  - NMCAs (X-border cartography)
  - Transport and Utility managers
  - Ministry of Foreign Affairs
  - State Forest Administration

- X-border organisations or initiatives
  - Geneva area, Bodensee area
  - “Grande région”: BE, LX, FR, GE

- Research, Universities, academic sector
Use cases

• pan-European use

  - Various topics :

    - Environmental purposes (urban climate, solar potential of roofs, impact of wind turbines, energy consumption of buildings, …)
    
    - Car navigation

    - Games (Ecocraft)

    - Geocoding (gazetteer) service

  - Various contexts :

    - European projects (HERMES)
    
    - Software, methodology development => need for reproducible results
Use cases

- X-border use cases
  - Cartography
  - Accessibility assessment
  - CAP subsidies for X-border farmers
  - Planning
    - On land (e.g. Alpine convention)
    - On sea (e.g. Baltic Lines)
  - ...

Benefits of interoperability

- Not limited to use of INSPIRE data
- Also use of INSPIRE data models
  - Good basis for national or X-border standards
    - “INSPIRE” as magic word to get consensus between various stakeholders
    - INSPIRE GML used as exchange format for CP and BU in Land Administration in Spain
  - Used in some ontologies
- More vector data (KLIC example about Utilities data)
Barriers

- Are potential users aware of INSPIRE data?
  - Probably not enough e.g. research (URCLIM)
  - We don’t fully know who are these potential users
  - Limited awareness raising by data producers
    - INSPIRE data not proudly advertised by NMCAs!

Place from improvement!
Barriers

• Is it easy to harvest INSPIRE data?
  - Probably not enough
    - Need for products (as CRD) rather than services
    - Distributed architecture not suitable for all purposes; need for some centralisation
    - WFS not efficient enough; ATOM might be better
    - WPCS looks wonderful but some trouble with INSPIRE data models; need for user training?
Barriers

• Is it possible to use INSPIRE data?
  - Difficulties
    - INSPIRE data models considered as complex
    - Not all client applications able to consume INSPIRE data
  - but some success
    - ELF event in Poland
    - Some use of Czech INSPIRE services
    - Tools developed in Spain to deal with INSPIRE GML on CP
    - EEA integration exercise for Copernicus services on AU
Theme specific difficulties

• Theme TN
  • Interested users (e.g. car navigation)
  • Linear referencing too complex for basic applications (mapping, …)

• Annex III data
  • Will they be implemented?
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  • Interested users (e.g. car navigation)
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• Annex III data
  • Will they be implemented?
Removing barriers

- Simplify INSPIRE data
  - Flat schemas
  - Alternative encodings

- Enrich (INSPIRE) data;
  - more content, better harmonisation
  - Other providers (private, VGI, …)

- Better tools

- Open data (but not mandated by INSPIRE) to solve licencing, access issues; open SDI.

Several initiatives (MIG, EG, UN-GGIM, …)
Thanks to all for coming and for your contribution to the workshop!