



INSPIRE Thematic Cluster on *Elevation, Orthoimagery, Reference systems and Geographical grids*

Jordi Escriu - facilitator

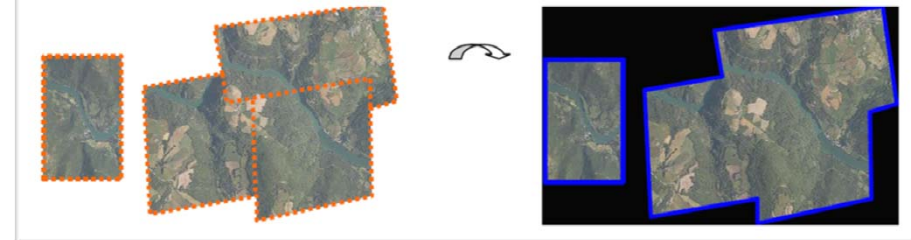
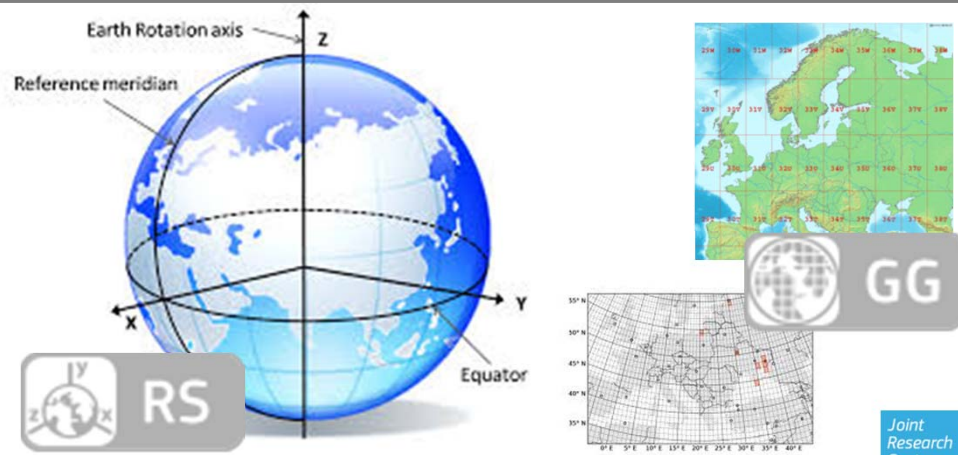
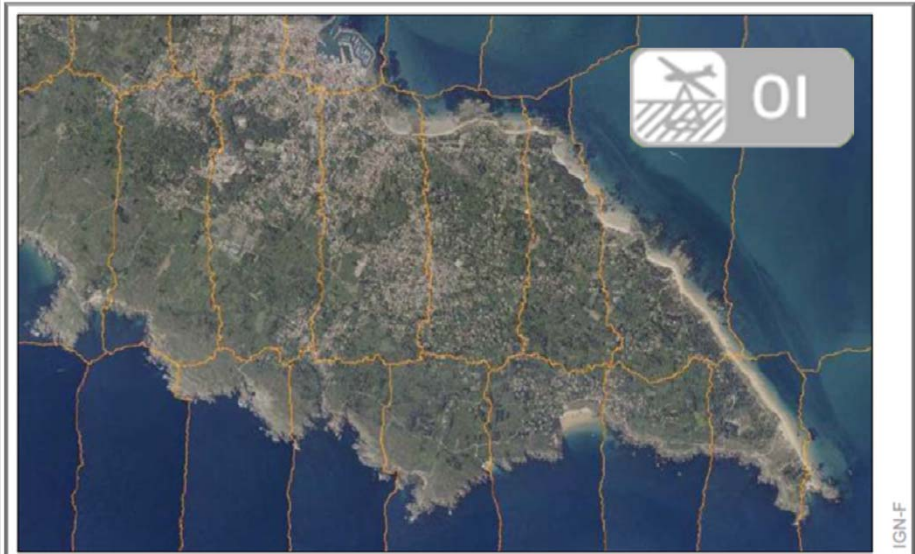
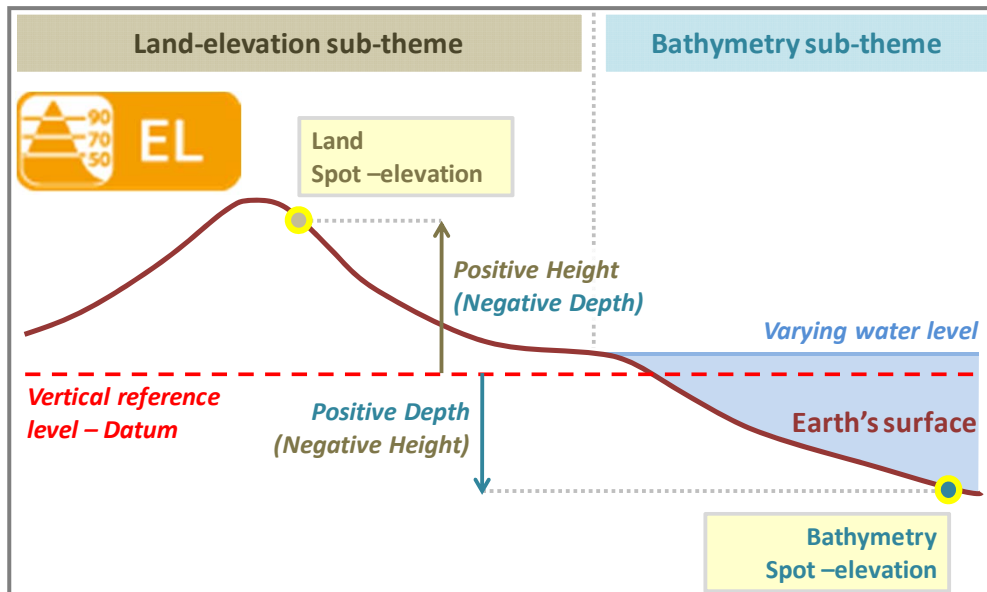


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*Serving society
Stimulating innovation
Supporting legislation*

Joint
Research
Centre

Thematic cluster scope

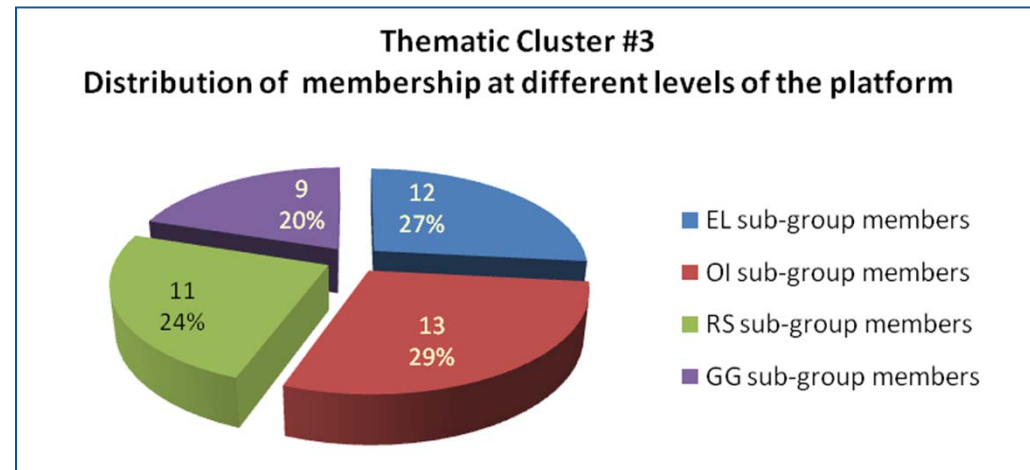


Membership

Elevation, Orthoimagery, Reference systems and Geographical grids (64)



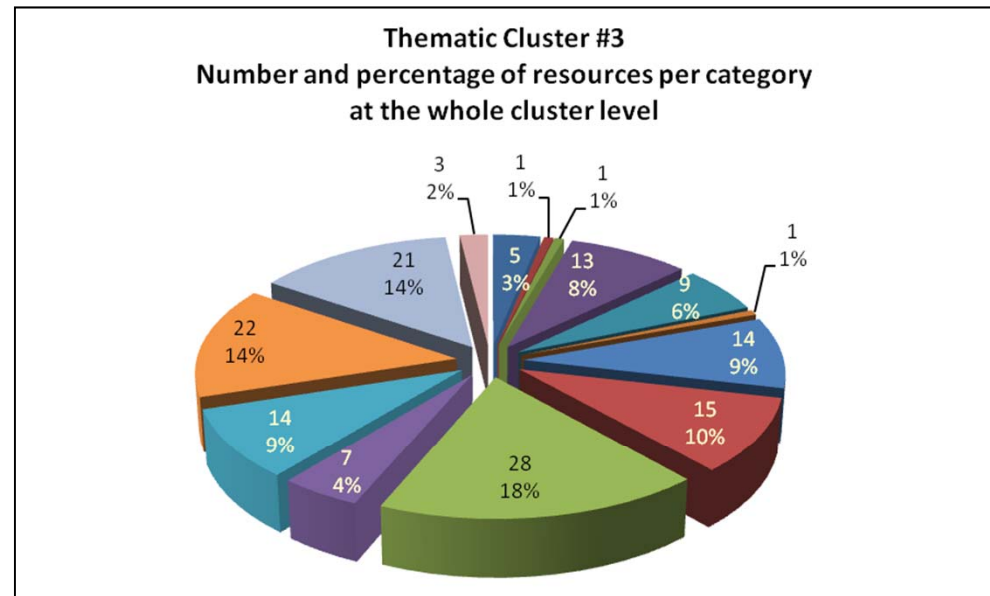
-  Elevation (12)
-  Orthoimagery (13)
-  Coordinate reference systems (11)
-  Geographical grid systems (9)



Main stakeholders: Mapping and Hydrographic agencies, Copernicus, EU agencies and organizations, EU and global coordination bodies, any potential data user

Content / Type of Resources

- Discussion topics
- Unsatisfied needs and use-cases
- Successful experiences
- Leading projects
- Applicable software tools
- Useful documentation
- News and upcoming events



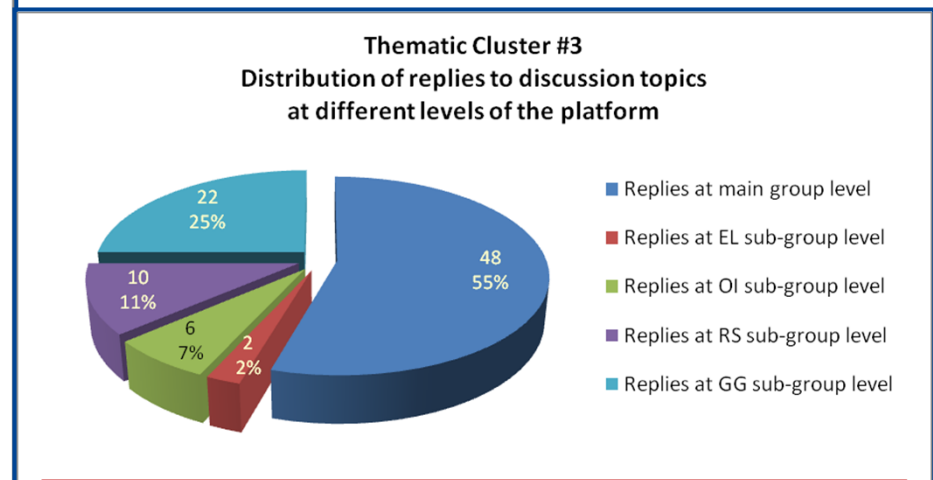
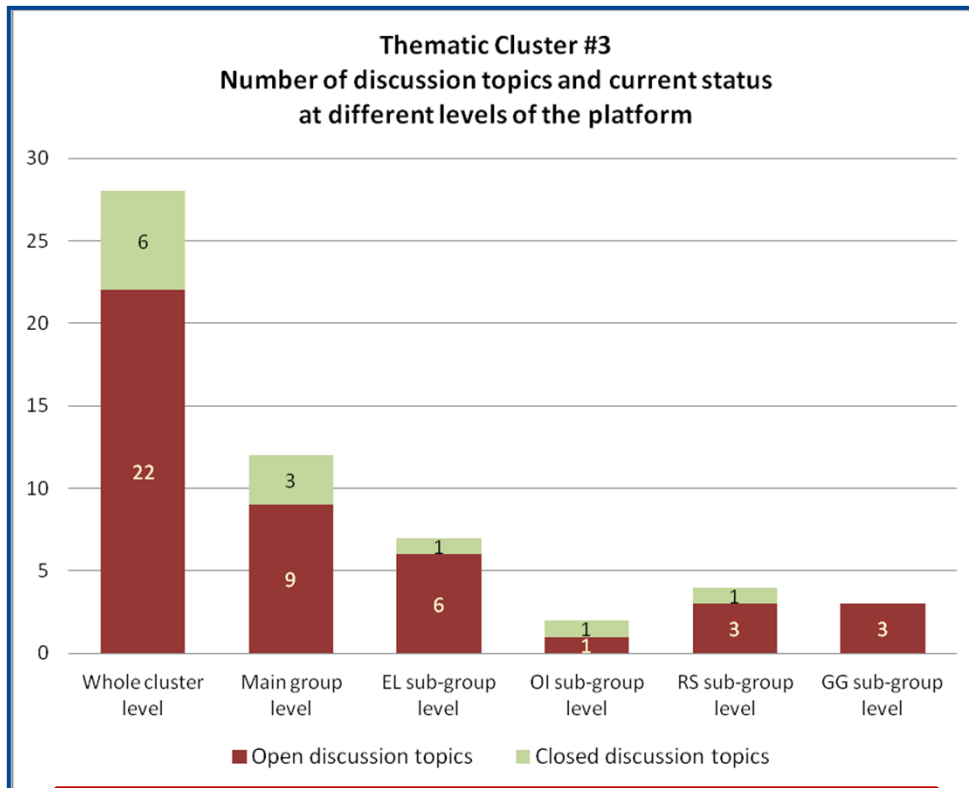
Member State issues	18%
Interoperability, Data provision	14% each
SW Tools	10%
Best practices, EU Thematic databases	9% each

Content / Examples

- **Discussions threads** (Implementation / TG evolution / ...)
 - How to encode OI and EL INSPIRE GML coverages (raster data)*
 - WCS as an INSPIRE download service option for raster data*
- **Unsatisfied needs / Use-cases**
 - Lacks of EU-DEM dataset*
 - Official European registry of reference systems and geodetic parameters*
- **Successful experiences**
 - Seamless OI coverage for the Grand Genève cross-border area*
 - EuroDEM – A pan-European interoperability case*
- **Leading projects**, (European / national level)
 - ELF, CRS-EU, eENVplus, ARE3NA, PNOT...*
- **Applicable software tools:** *FME...*
- **Useful documentation:**
 - Presentations about the current TGs, Web Coverage Services (WCS)*
 - Workshop reports: 'Map projections for Europe', 'European reference grids'*



Discussions / Activity



DISCUSSION THREADS

- **Total: 28** (Main-group: 12 / Sub-groups: 16)
- **Cross-theme: 11** / **Cross-cluster: 5**
- **20% of threads already closed**

REPLIES

- **Total: 88** (Main-group: 48 / Sub-groups: 40)
- **55 % Activity at the main-group level**
- **Most active sub-groups:**
 - Geographical grids: 25%
 - Reference systems: 11%



Interesting & Active Discussions

- **The winners (29 replies in total)**
 - How to encode the spatial extent of coverages - [domainExtent vs. gml:boundedBy](#) (16 replies)
 - [Encoding of EL and OI coverages](#) in GML - GMLCOV (13 replies)
- **In second place...**
 - [Usability of the 'Zoned Geographic Grid'](#) (13 replies)
 - [Existing validation rules](#) (10 replies)
 - Transverse Mercator projections allowed in INSPIRE - [ETRS89-TMzn and raster data for OI and EL](#) (9 replies)
 - European Grid Coordinate System naming used for EU-DEM tiles - [Copernicus RDA EU-DEM EGCS naming](#) (7 replies)
 - [Use of the 'Equal Area Grid'](#) (8 replies)
 - [Misalignment between coverages from different data providers](#) (6 replies)



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Example discussion topic

Encoding of INSPIRE coverages

- First experiences in Spain (IGN Spain) & Finland (SIKE)



Julian Delgado Hernandez
Section Head in Land Cover / Land Use
service
National Geographic Institute
Spain
Bio



Lena Hallin-Pihlatie
Senior GIS-expert
Finnish Environment Institute
Finland
Bio | Abstract

- Using FME software (from SAFE, Canada)
- Report as a best practice to be promoted through the ARE3NA project
- Useful for other implementers and Member States

<https://themes.jrc.ec.europa.eu/discussion/view/2843/encoding-of-elevation-and-orthoimagery-coverages>



Next Activities



- **EuroGeographics INSPIRE KEN**

TC#3 (EL-OI-RS-GG)

- **29-30.09.2015 – Barcelona**

Workshop about transformation of raster data (EL, OI) and WCS

Cartographic and Geological Institute of Catalonia (ICGC)

Barcelona

Looking for your participation...

- Mapping and Hydrographic agencies
- Implementers with questions about INSPIRE georeferencing framework
- Producers / experts on Bathymetry
- Copernicus community
- EU agencies and organizations
- Any potential user of EL & OI data



JOIN THEMATIC CLUSTER #3

<https://themes.jrc.ec.europa.eu/groups/profile/206/elevation-orthoimagery-reference-systems-and-geographical-grids-cluster>

Take a leaflet in the JRC/EC booth



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Facilitator Thematic Cluster #3