UN-GGIM: Europe Working Group on Core Data Report and update

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Recommendation for content
Core data themes state-of-play
Working Group on Core Data

• Core Data: **priority geospatial data** the most useful to analyse, achieve, or monitor the SDGs

• Objective: **Define** Core Data and **encourage** UN European MS to produce and supply them

⇒ ‘Recommendations for Content’ for 14 core themes, based on INSPIRE

**Annex I**
- Coordinate Reference Systems
- Geographical Grid Systems
- Geographical Names
- Administrative Units
- Addresses
- Cadastral Parcels
- Transport Networks
- Hydrography
- Protected Sites

**Annex II**
- Elevation
- Land Cover
- OrthoImagery
- Geology

**Annex III**
- Statistical units
- Buildings
- Soil
- Land use
- Human health and safety
- Utility and governmental services
- Environmental monitoring facilities
- Production and industrial facilities
- Agricultural and aquaculture facilities
- Population distribution - demography
- Area management/restriction/regulation
- Natural risk zones
- Atmospheric conditions
- Meteorological geographical features
- Oceanographic geographical features
- Sea regions
- Bio-geographical regions
- Habitats and biotopes
- Species distribution
- Energy resources
- Mineral resources
Progress since last year: Work on ‘Land Cover’

• Need for large scale data
  – Various possible approaches
    ⇒ no product-oriented recommendations
  – Some common characteristics (e.g. territory partition)
  – Recommendation for methodology
    – Need for agreement on national product by law or by coordination
    – Find relevant balance between requirements and feasibility
Progress since last year:
Work on ‘Land Cover’

• Considerations for future
  – New production methods
    (Sentinel temporal series, VGI)
  – Combining several products or layers
    • “Interoperable” classifications (EAGLE, LCML)
    • Multi-dimensional products (LC, LU, parameters)
    • Data cube

⇒ Strong need for capacity building
  • On producer side
  • **On user side**
Progress since last year: Work on ‘Land Use’

• Existing land use
  – Need for large scale data (as LC)
  – INSPIRE classification is good starting point
    • Adopt at least higher level (residential, primary/secondary/tertiary…)
  – Choosing main data source is key decision
    • Orthoimage is useful to get reference date
    • Cadastre enables continuous update
  – Consistency with other core data (buildings, transport) should be ensured
Progress since last year: Work on ‘Land Use’

• Planned land use
  – Common code list with existing LU may be of interest
    • To enable controls
  – Similar recommendations as for ‘Regulated or Managed zones’
    • Priority to valid and binding LU spatial planning
    • Main aim is digitalisation and accessibility of existing data
  – New version of LADM (with planned LU) to be investigated
## Global State of Progress

<table>
<thead>
<tr>
<th>Theme</th>
<th>Analysis</th>
<th>Decision making</th>
<th>Draft Deliverable</th>
<th>Consolidated Draft After WG A Review</th>
<th>Final Deliverable After General Review</th>
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- **The most advanced**
- **Good progress**
- **In development**
Core Data Implementation
Document to promote Core Data implementation

- Objectives: provide UN-GGIM: Europe Executive Committee
  - State-of-play of what has been done to promote core data
  - Ideas & recommendations about what might or should be done in future

- Currently available as Table of Content
Collaborative approach

• Working Group’s iterative process
  – Questionnaires
  – Review of core data deliverables by geostatistical community
• Raising interest and involvement from the community
Collaborative approach

• **CP, SU** raised strong interest
  – Well-known and motivated community

• **AD, BU** as well
  – Thanks to the cadastral community
Cadastral Parcels

Map of Cadastral Parcels in Europe, showing countries that are part of different working groups and organizations.
Statistical Units
Collaborative approach

• Mixed success for others themes
  – GN vs. AM
  – EL vs. US
Geographical Names

- Eurostat
- Eurogi
- EEA
- DG REGIO
- Marine community
- IHO
Area Management

- Eurostat
- Eurogi
- EEA
- DG REGIO
- Marine community / IHO
Communication

- UN- GGIM: Europe meetings
- EFGS conferences
- INSPIRE conferences
- GISCO meetings
- Other events
Other actions

• Bibliography
  – Core data mentioned in other documents (mainly related to UN-GGIM)

• Interest from the European Commission
  – Concept of core data emerging more and more (High Value Datasets, INSPIRE...)
What about future?

• Initial objective(s) of core data
  
  – Same SDG requirements ⇒ need for similar core data
    
    • Support data-driven policy at national level
  
  – Similar core data at national level is a good starting point for pan-European datasets
Core data and INSPIRE

Core data

Production of common content

INSPIRE

Delivery of data according to common data model, format, services

Users get harmonised data with both common content and common structure
The way to pan-European datasets

• Core data (together with INSPIRE) provide a **good framework** to obtain harmonised data from MS
• But there is also a need for a **more coordinated approach** to implement core data
  – Member States and European Institutions jointly deciding
    • which user need(s) to be addressed as a priority
    • which core data theme(s) to be implemented as a priority
  – One interested party acting as data aggregator
• Eurostat once expressed its decision to use Core Data as target model for its database (TBC)
The way to pan-European datasets

- EuroGeographics’ oncoming project
  - A larger scale (1:10k) datasets for key data themes
  - A jigsaw approach, among others, is currently investigated
    - Focussing efforts on priority user needs
    - Designing and producing data themes stepwise
  - A production workshop scheduled in November 2021

- Working Group’s aim
  - Suggesting to adopt UN-GGIM: Europe Core Data as guiding principle for product managers and data producers
Conclusions
Conclusion

• Deliverables
  – Most Recommendations for Content of core themes close to final version (12 scheduled for mid-2022)
  – “Promoting core data implementation” under preparation

• Is it time for wider communication and awareness?
  – Outside UE and EFTA
  – Probably the case of many UN-GGIM: Europe activities