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

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UN-GGIM: EUROPE

UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

Recommendation for content
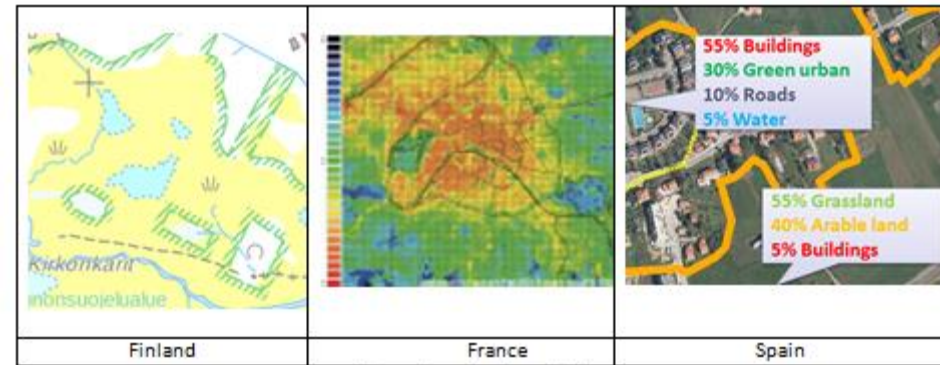# Core data themes state-of-play

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

|		
Finland	France	Spain

Examples of national 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**
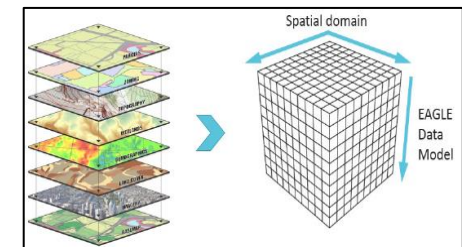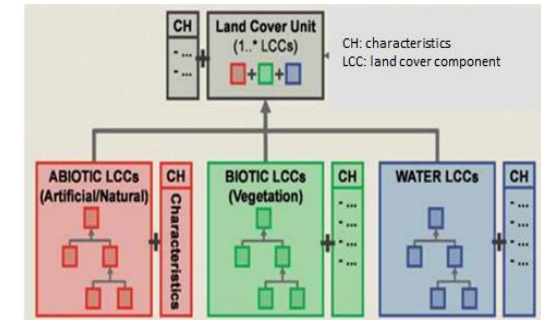
Progress since last year: Work on 'Land Use'

- 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

Theme	Analysis	Decision making					Draft Deliverable		Consolidated Draft *After WG A Review*		Final Deliverable *After General Review*	
AD												
AU												
BU												
CP												
GN												
SU												
US												
AM												
OI												
EL												
TN												
HY												
LC												
LU												

The most advanced

Good progress

In development

Core Data Implementation

Document to promote Core Data implementation

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Promoting core data implementation

Working Group A - Deliverable of Task 1.c

Version 0.1 - 2019-07-22

- 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
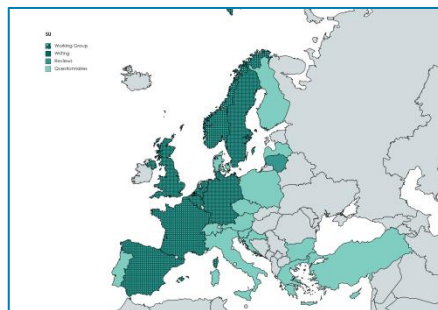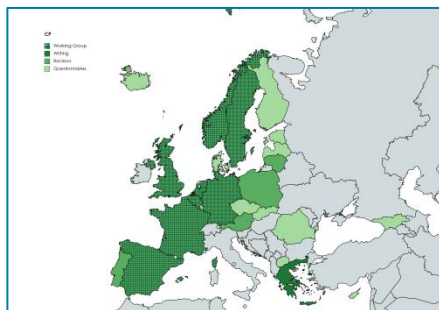
- Currently available as Table of Content

Collaborative approach

- Working Group's iterative process

  - Questionnaires

  - Review of core data deliverables by geostatistical community

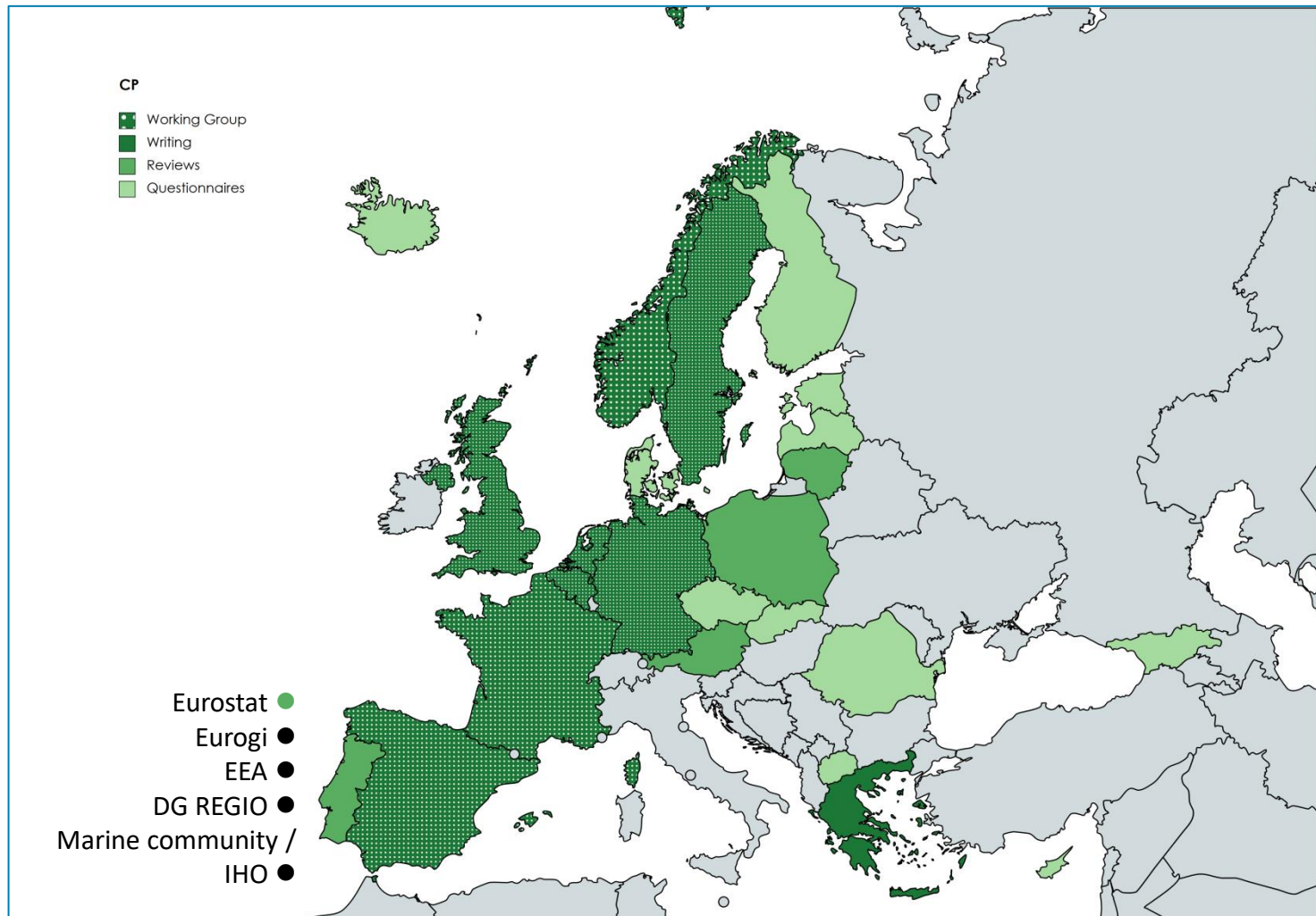- Raising interest and involvement from the community

Collaborative approach

- **CP**, **SU** raised strong interest

    – Well-known and motivated community

- **AD**, **BU** as well

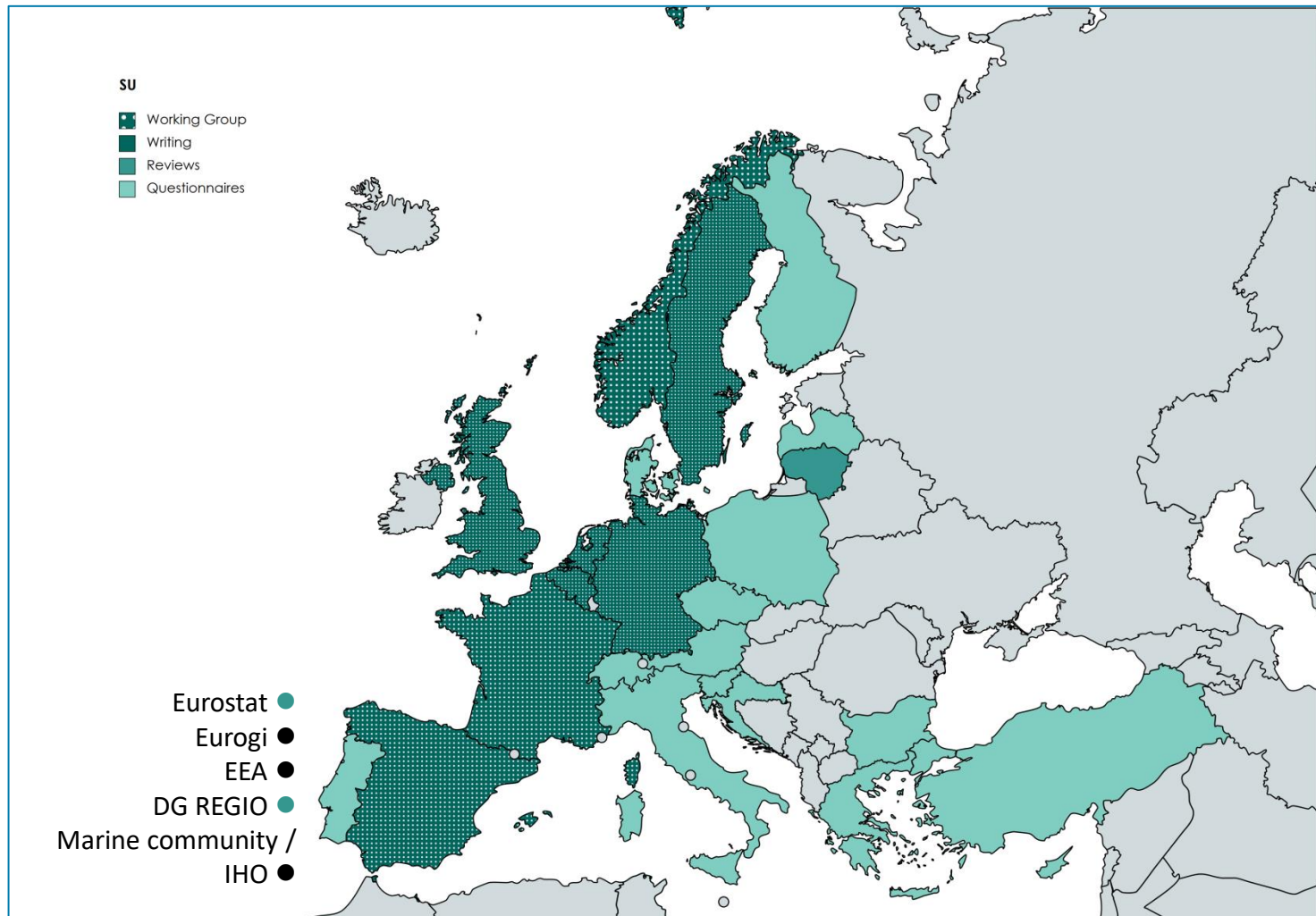   – Thanks to the cadastral community
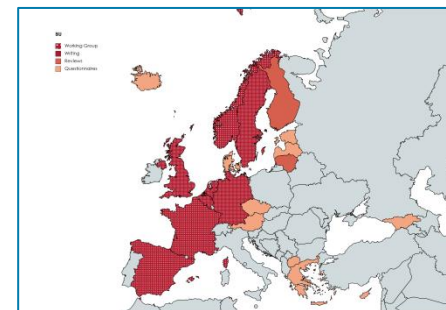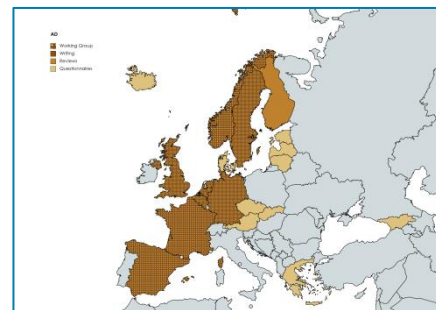
Cadastral Parcels

Statistical Units

SU
- Working Group
- Writing
- Reviews
- Questionnaires

Eurostat ●
Eurogi ●
EEA ●
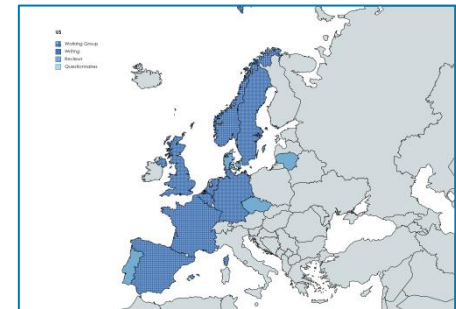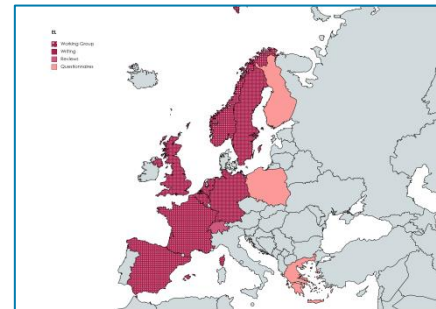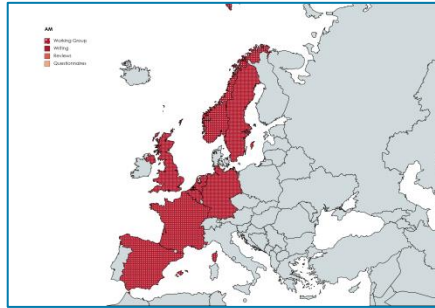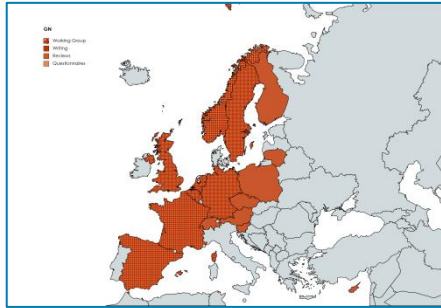DG REGIO ●
Marine community / IHO ●

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Collaborative approach

- Mixed success for others themes

    - GN vs. AM

    - EL vs. US

Geographical Names

GN
- ▦ Working Group
- ■ Writing
- ■ Reviews
- ■ Questionnaires

Eurostat ●
Eurogi ●
EEA ●
DG REGIO ●
Marine community /
IHO ●

Area Management

AM
- ▨ Working Group
- ▨ Writing
- ▨ Reviews
- ▨ Questionnaires

Eurostat ●
Eurogi ●
EEA ●
DG REGIO ●
Marine community /
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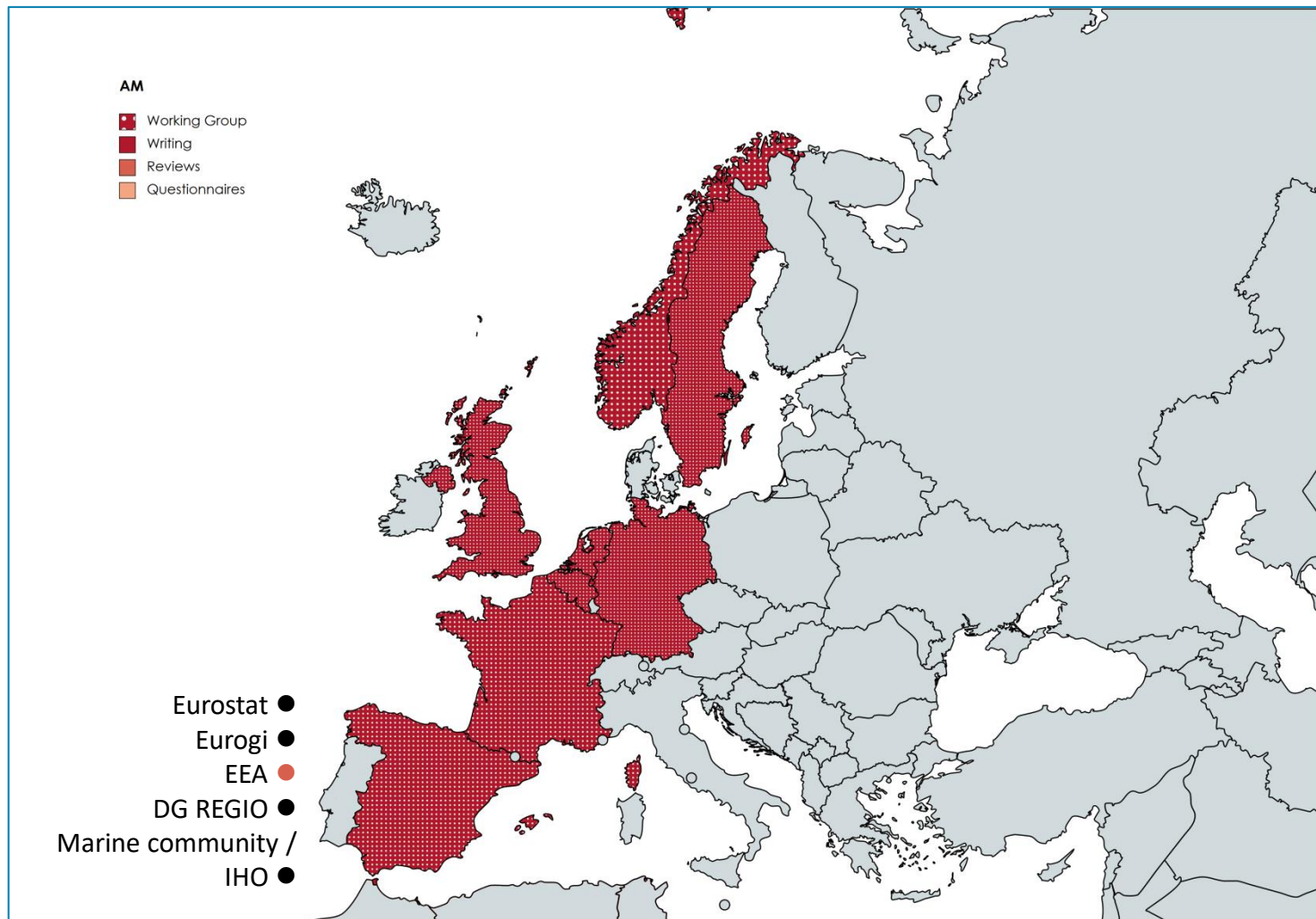
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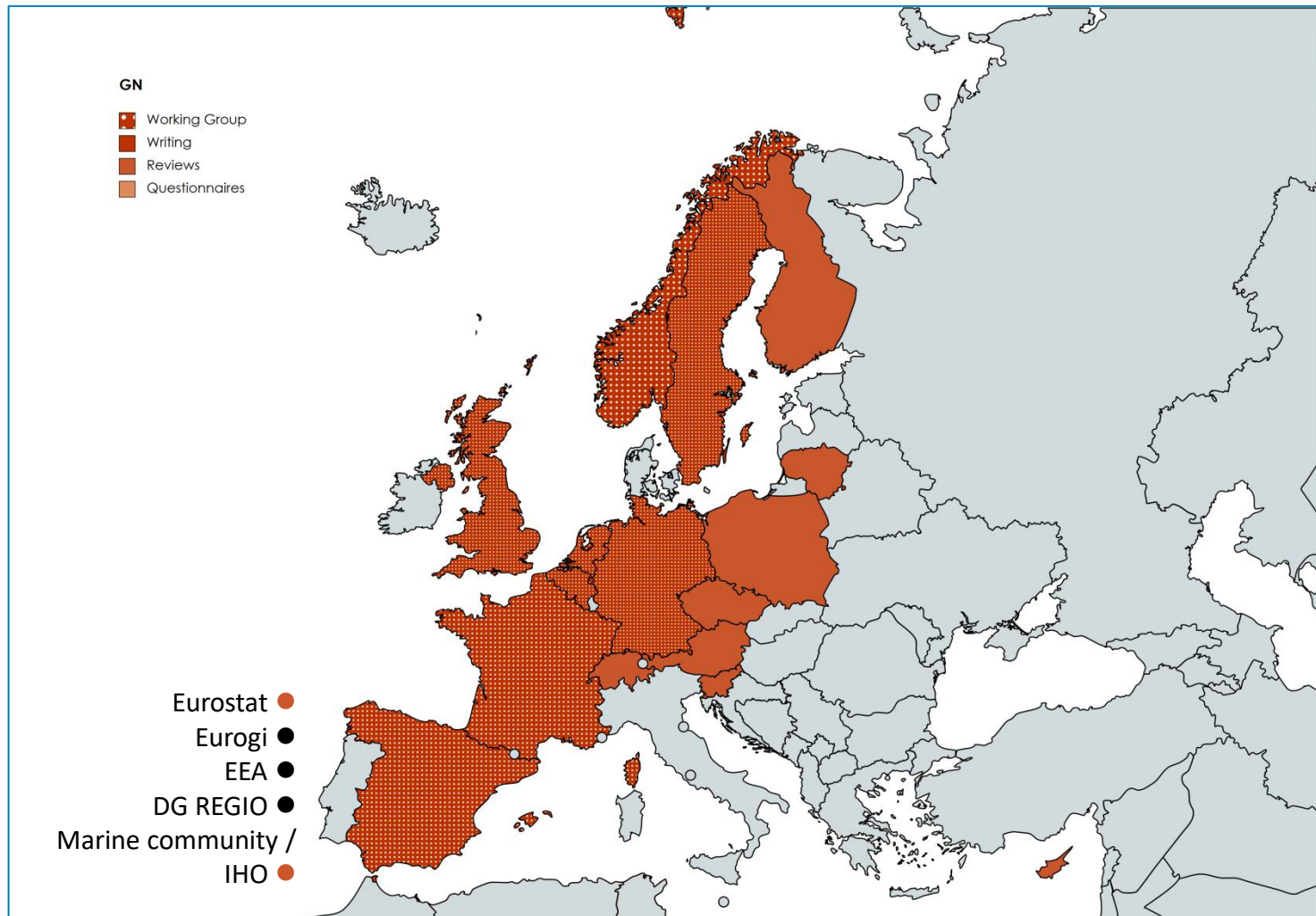UNITED NATIONS INITIATIVE ON
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Communication

Legend:
- European Union
- EFTA
- United Kingdom

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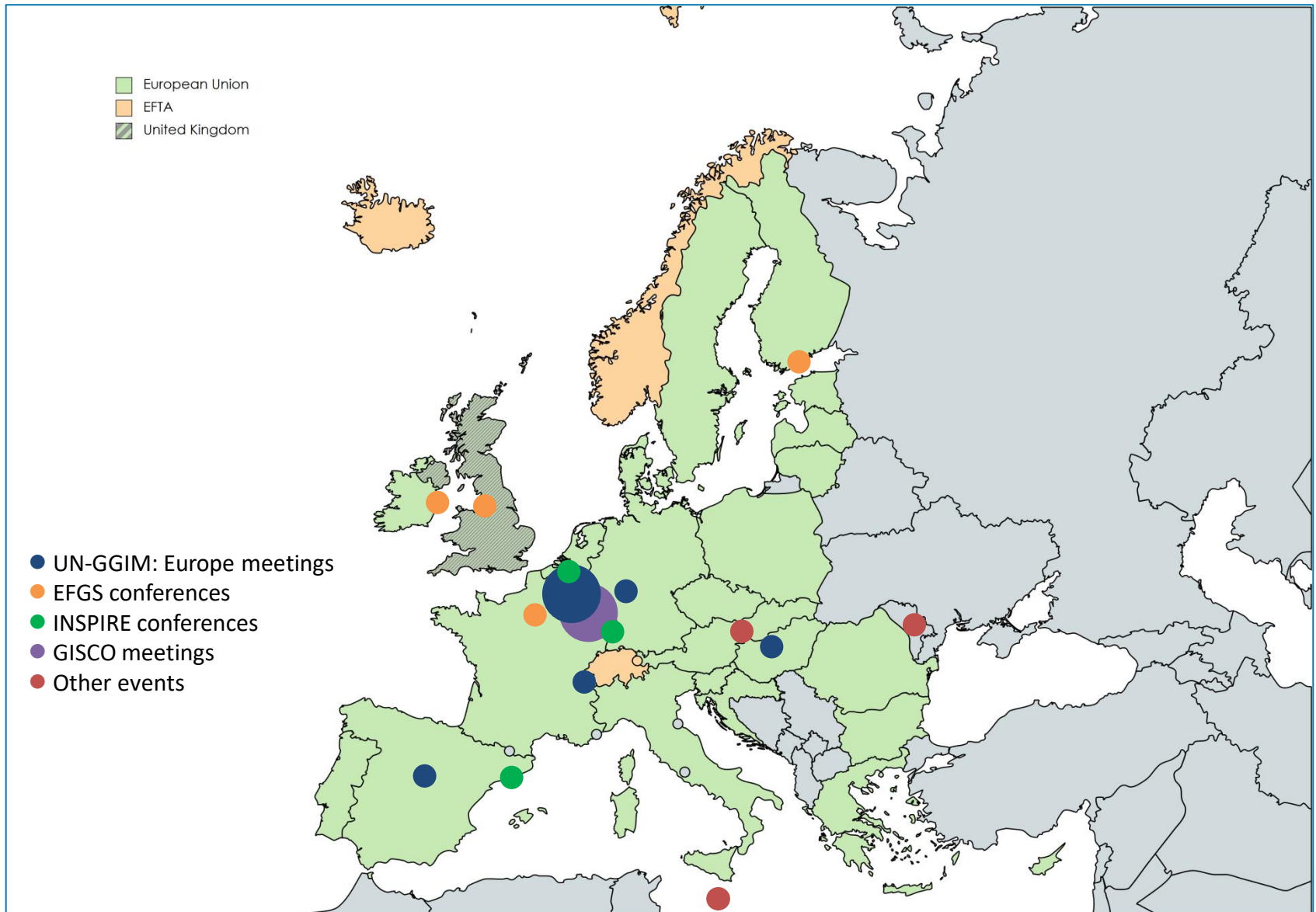
Other actions

- Bibliography

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

- Interest from the European Commission

  - Priority list of core spatial datasets for core themes: **Administrative Units**, **Statistical Units**, **Addresses**, **Cadastral Parcels**, **Buildings**, **Transport Networks**, LPIS, Postal Codes ("*Priority Geospatial Datasets for the European Commission",* Eurostat, June 2018)

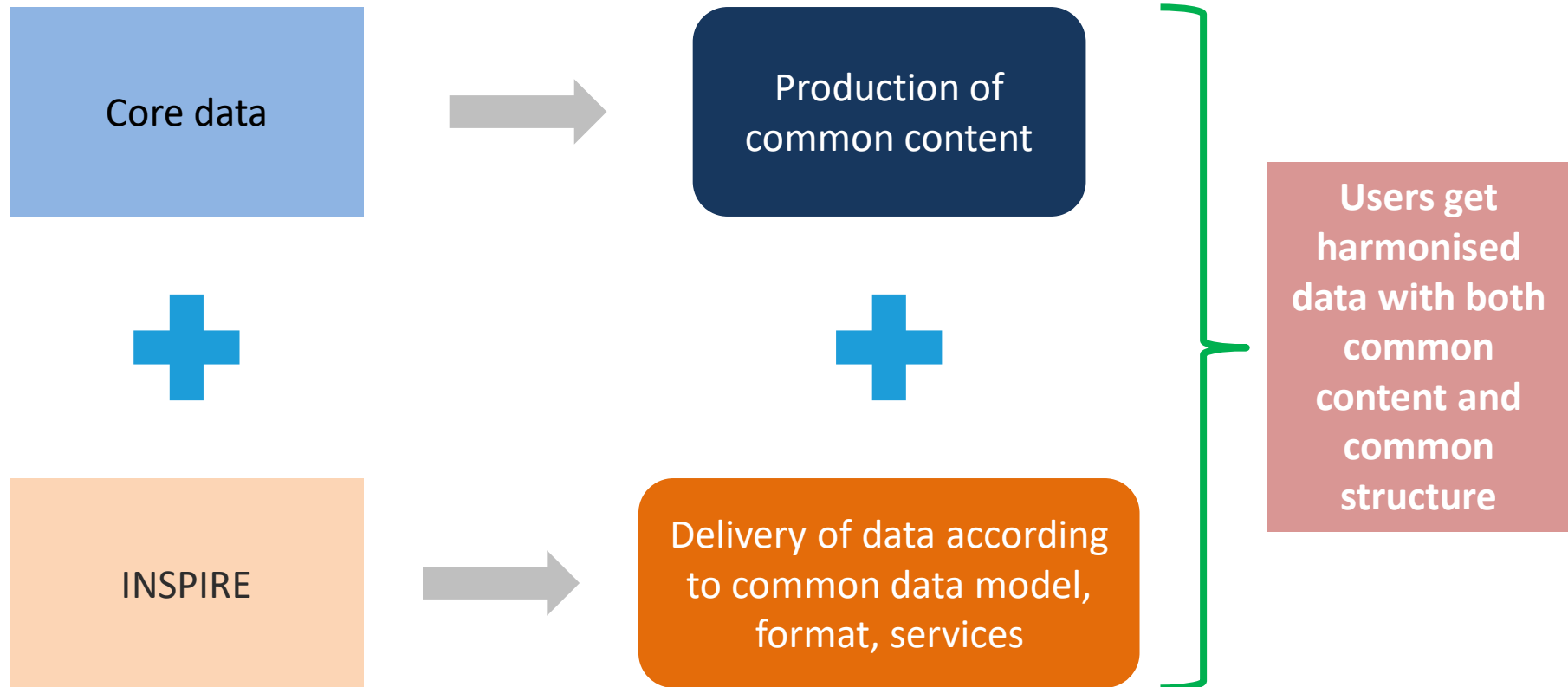 - Concept of core data emerging more and more (High Value Datasets, INSPIRE…)

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

INSPIRE

Production of common content

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