UN-GGIM: Europe Working Group on Core Data Report

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Introduction – Reminder

What is Core Data?

- Core data is **priority data**

  - Geospatial data

  - The most useful to analyse, achieve or monitor the SDGs

  - Directly or indirectly

Objectives of the Working Group on Core Data

- **Define Core Data** and encourage UN European Member States to produce and supply it

- **Define priorities** for producing new data or for improving existing data

Steps of the Working Group on Core Data

Selecting 14 core themes out of 34 INSPIRE themes

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

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Steps of the Working Group on Core Data

- 'Recommendations for Content' for core themes, based on

    - Existing standards: mainly INSPIRE

    - Common user requirements with focus on SDG related

        use cases

- Common user requirements

    → Common minimum core data content

Iterative process of the Working Group on Core Data

- Phase 1: Preparation (investigation, discussions, …)

  → initial draft

- Phase v2: Review by WG A on core data

  → consolidated draft

- Phase 3: Review by whole geo-statistical community

  → definitive deliverable

State of Play
Core Data Themes

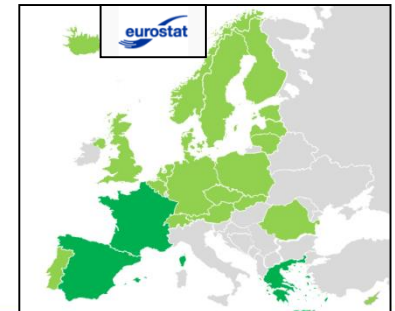# Core Theme 'Cadastral Parcels'

- Main recommendations
    - Encourage cadastral parcels forming a **partition of territory**
        - Cadastring **public domain** is encouraged
        - Completeness & Topology (no gaps or overlaps)
    - Encouraging efficient **link with land registry**
        - Temporal consistency between cadastral map and land registry

- State-of-play
    - Wide contribution across Europe (WG A, questionnaire, review)
    - Positive feed-back
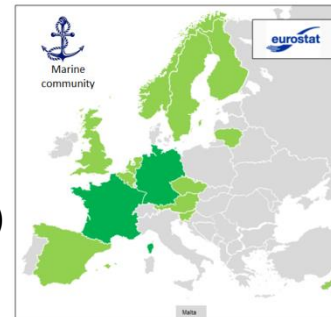   - **Final version published**

Core Theme 'Addresses'

- Main recommendations
  - The basic unit of addressing is a **building**
    - Proper level of core address
  - True addresses on **whole territory**
    - Street names and house numbers or names everywhere (including rural areas)

- State-of-play
  - **Review by geo-statistical community** (phase 3)
    - Strong interest from statistical community
    - Some core recommendations integrated in ESGF
  - Final version still to be published

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Core Theme 'Geographical Names'

- Main recommendations
  - All names that currently are in use should be populated
    - **Names used as search criteria in geoportals → Completeness**
  - Named Places should be populated with **population information** and with **true geometry**
    - Names used in mapping → Selection criteria

- State-of-play
  - **Review by geo-statistical community**
    - Phase 3 ongoing
    - Successful review (more than 100 comments from 17 organisations)
  - Final version still to be published

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Core Theme 'Basic Services'

- Main recommendations

  – **Minimum list of basic services** addressing the following functions:

    - Energy supply, waste management, education, health, safety and defense, recreation, general administration, social services, economic services

    - This minimum list should ideally be a starting point for national standards

- State-of-play

  – **Review by geo-statistical community**

    - Phase 3 ongoing

  – Final version still to be published

Core Theme 'Administrative Units'

- Main recommendations
  - **Very close to INSPIRE**
  - Land administrative units
    - Defining levels of detail
      - Interest for both large scale data and medium scale data
    - Encouraging agreed representation in order to ensure correct topology
  - Sea administrative areas
    - Enrich INSPIRE data by new standard S121 (IHO)
- State-of-play
  - **Review by geo-statistical community**
    - Phase 3 ongoing
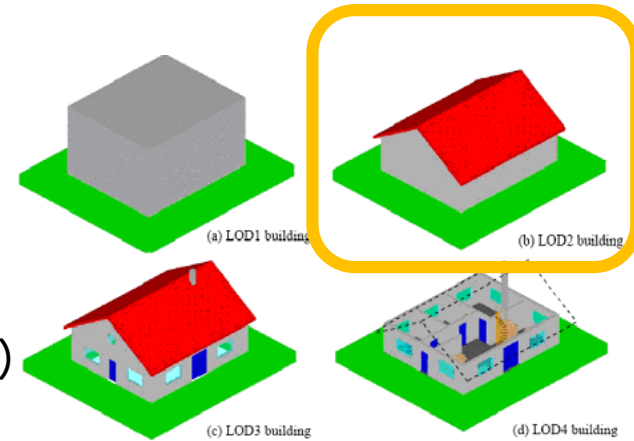 - Final version still to be published

Core Theme 'Buildings'

- Main recommendations

  - **Choice of geometric representation**

    - Priority 1 (core recommendation): 2D

    - Priority 2 (good practice): 3D (CityGML LOD2)

(a) LOD1 building
(b) LOD2 building
(c) LOD3 building
(d) LOD4 building

- State-of-play

  - Review by WG A done (phase 2)

  - **Consolidated draft has just been published**

    - for review by geo-statistical community
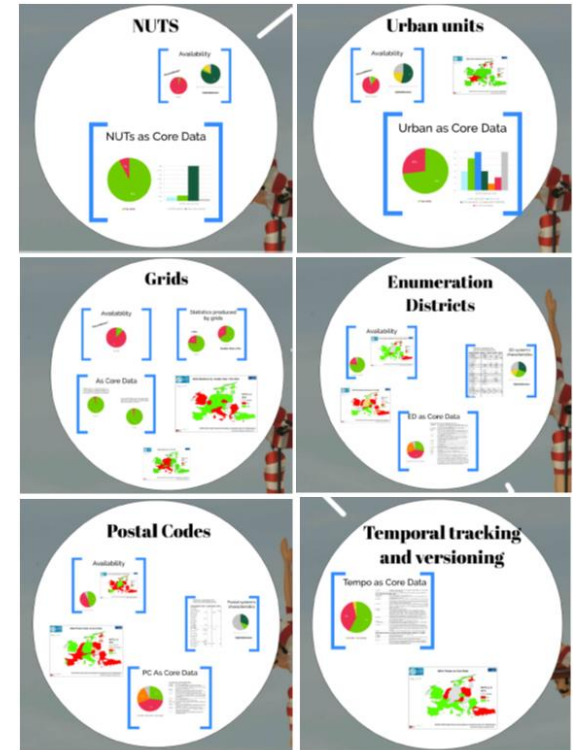
    - deadline: 31 August 2018

Core Theme 'Statistical Units'

- Main recommendations

  - **Selection of main types**

    - Priority 1 (core recommendation):
      1 km^2 grids; NUTS/LAU; Urban Units

    - Priority 2 (good practice):
      Enumeration Districts

- State-of-play

  - Review by WG A done (phase 2)

  - **Consolidated draft to be published**,
    for review by geo-statistical community

Results of the questionnaire among the statistical community

Other Actions

Other Actions

- Communication
  - INSPIRE conference (September 2017)
  - EFGS (November 2017)
  - GISCO – UNGGIM Europe (April 2018)
  - INSPIRE KEN webinar (June 2018)

- Coordination
  - WG global fundamental data
  - WG B
  - Statistical community

Conclusions

Conclusion:
Next Working Group A Actions & Challenges

- Finalise recommendations for content
  - For all the 14 core data themes

- Tackle **economic** model, **political** and **financial** frameworks of core data
  - Key for supporting core data availability

Conclusion:
Next Working Group A Actions & Challenges (cont.)

- **Convince decision-makers to implement** core data recommendations
  - Better involve non-EU European countries
  - Better involve non-NSI & non-NMCA actors
    - Other data producers
    - Governments