

Update from Working Group A on Core Data

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Plan of the presentation

- **WGA Context and Objectives**
- **Common principles** for
“Recommendation for Content” of Core Data
- Draft recommendations for content
of core data themes **CP, AD, GN**
- Draft Recommendations for Content
Ongoing Work on Other Core Themes



WGA Context and Objectives



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Definition of Core Data

- geospatial data
- the most useful
 - either directly or indirectly
 - to analyse, to achieve and to monitor the Sustainable Development Goals.

Sustainable Development Goals



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Core Data - Objectives

- INSPIRE aims to harmonise existing data
 - Common data model → first level of interoperability
 - But still heterogeneous data
 - voidable attributes, level of detail not defined
- Core data aims to complement INSPIRE by ensuring common (minimum) content

**INSPIRE:
STRUCTURE**

**CORE DATA:
CONTENT**



Core Data Work Plan

Recommendations for Content

Core data
scope

Recommendations
for Content

Core Data Scope: done

Recommendations for
content (2016-2017):

- Common Principles
- 3 themes drafted

Economic model, political and financial frameworks for
supporting core data availability

Remains to be
done (2018)



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Reminder: Core Data Scope

The 14 selected core data 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

Common Principles

For “Recommendations for Content” of Core Data



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Recommendations for Content Principles - Methodology

- Starting points
 - INSPIRE data specifications
 - SDG user requirements
- Define priorities, extract core data
 - From INSPIRE data model & theme scope
- Decide on levels of detail, quality criteria
 - To ensure data homogeneity



Recommendations for Content Principles (cont.)

Step-wise approach:

- **Core recommendation**: 1st priority, achievable, ideally short term action
- **Good practice**: 2nd priority, brings added value to core data, to be encouraged
- *Considerations for future*: potential core data in long term



Draft Recommendations for Content

**First Results of the Working Group
For Themes CP, AD, GN**



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Draft Recommendations for Content

**First Results of the Working Group
Theme “Cadastral Parcels”**



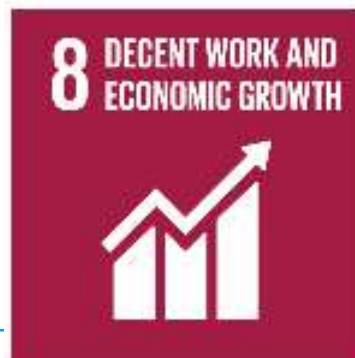
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Geographic extent

- **Core recommendation:** have core CP (vector) data on whole territory, according to national law
- Potential impact on data producers
 - Encourage achievement of cadastre under elaboration
- Benefits for SDG
 - Security of land ownership & transactions
 - Enables investments (mortgage) & economic growth



Geographic extent

Good practice: have CP data on whole land territory, including public domain

- Potential impact on member states:
 - Possible change in national legislation
 - Need to survey missing parts
- Potential benefits
 - Better manage public land
 - E.g. SDG indicator 11.7.1: “The average share of the built-up areas of cities in open space in public ownership and use”



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Geographic Extent

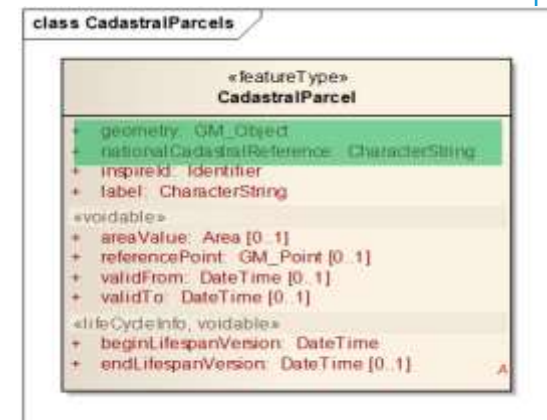
- **Consideration for future:** have marine cadaster
- Conclusion of cadastral community WG: Not yet mature
 - e.g. what has to be surveyed?
- Potential benefits for SDG
 - Sustainable development of oceans



Strategy for Core Cadastral Parcels

- Encourage cadastral parcels to form a partition of territory
 - Geographic extent
 - Completeness
 - Topology (no gaps or overlaps)
 - Cadastral parcels as single areas

- Encouraging efficient link with land registry
 - Model focus on national cadastral reference
 - Temporal consistency between cadastral map and land registry



Draft Recommendations for Content

**First Results of the Working Group
Theme “Addresses”**



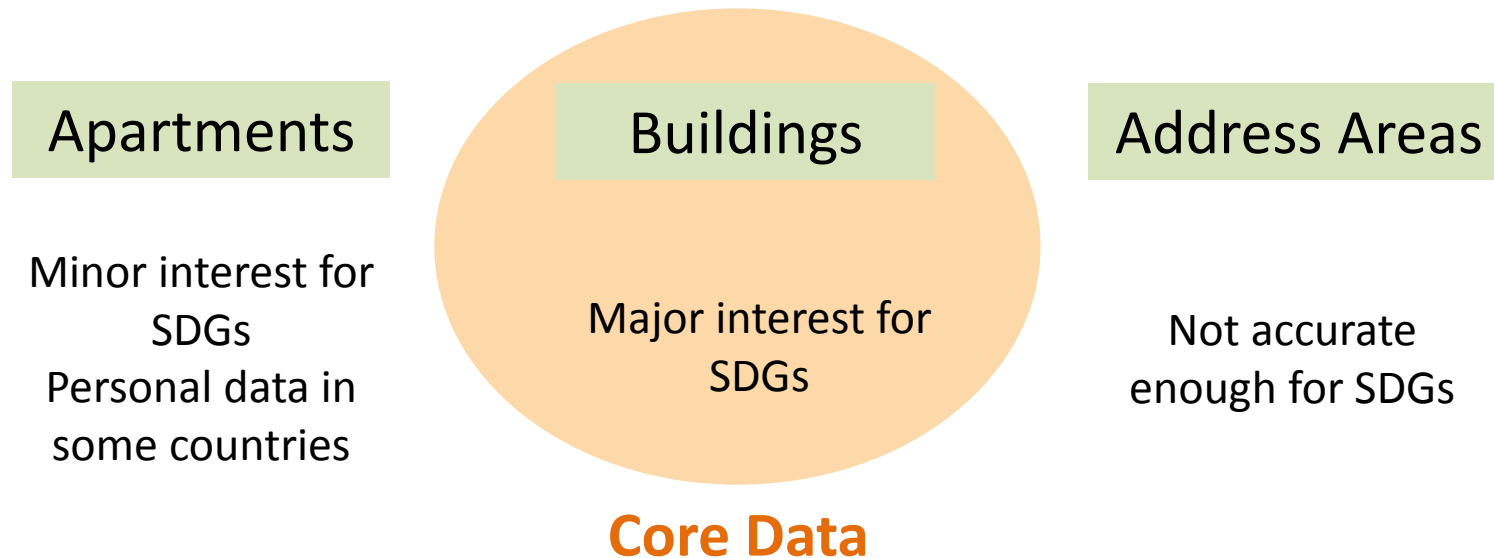
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Core Address Data - Scope

- Proper level of address data



- **Core recommendation:**
 - The core addressable object is a building that has its own personnel entrance



Core Address Data – Scope



3 GOOD HEALTH AND WELL-BEING

Reduce the number of deaths and illnesses

1 NO POVERTY

Access to basic services

8 DECENT WORK AND ECONOMIC GROWTH



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7 AFFORDABLE AND CLEAN ENERGY

6 CLEAN WATER AND SANITATION

11 SUSTAINABLE CITIES AND COMMUNITIES

Draft Recommendations for Content

**First Results of the Working Group
Theme “Geographical Names”**



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GN context and scope

- Purpose
 - Avoid duplication of core data production
- Core theme GN limited to named place not present in other themes
 - Mainly populated areas (settlements, cities)
 - But also Landform (mountains ...), Land Cover (forest ...)
- GN data for 2 main use cases
 - Search criteria
 - in gazetteer services, geo-portals, geo-catalogues, ...
 - Mapping



Recommendations: Examples

- Use of EGN classification
 - For type of named place
 - All names that are in current use
- Search criteria use case
- Names with language, status
 - Information on population
 - True geometry (generally surface)
- Selection criteria for mapping use case



Draft Recommendations for Content

Ongoing Work on Other Core Themes



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Ongoing Work on Other Core Themes

- 'Statistical Units' core theme
 - questionnaire to the statistical community
 - analyse what are the statistical units that are the most priority
 - enquire about user requirements and core statistical data, availability of possible additional core data, quality issues
 - 21 countries have answered

- 'Administrative Units'
 - WG A webinar to review the investigations carried out, and to take first decisions about core data content
 - discussions with the International Hydrographic Organisation (IHO) about maritime units and about the 'S121' future standard for Maritime Limits and Boundaries
 - aiming at compatibility between WG A recommendations and both INSPIRE and S121



Ongoing Work on Other Core Themes (cont.)

- 'Elevation' and 'Orthoimagery'
 - scenarios have been worked out
 - possible scenario for 'Elevation'
 - first core recommendation
 - availability on whole territory of a Digital Terrain Model (DTM) with grid size 25 metres and with vertical accuracy better than 5 metres
 - second recommendation
 - availability in "hot spots" of a most detailed DTM
 - in areas prone to be flooded with grid size 1 metre and with vertical accuracy around 20 cm
 - in urban areas with grid size 1 metre and with vertical accuracy around 50 - 70 cm.
- 'Area Management', 'Transport Network' and 'Hydrography'
 - experts have been interviewed, and discussion papers have been drafted
- 'Land Cover' and 'Land Use' core themes
 - workshop in Autumn 2017
 - to investigate the need to separate or not the 'Land Cover' and 'Land Use' concepts
 - to investigate the link between European and national or local data



Next Steps



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Draft Recommendations for Content Review Going On

- Drafts published on UN-GGIM: Europe website <http://un-ggim-europe.org/content/wg-a-core-data>
 - CP: done
 - AD and GN coming soon



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Conclusion

- WGA
 - Recommendations, not obligations
- Further Harmonisation Step
 - Encouraged by EC & EEA

