JOINT UN-GGIM: EUROPE – ESS MEETING ON THE INTEGRATION OF STATISTICAL AND GEOSPATIAL INFORMATION – LUXEMBOURG – 31 MARCH 2017

Report and update from Working Group A on Core Data

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Progress of the Working Group since March 2016
Plan of the presentation

- WGA Work Plan
- **Common principles** for "Recommendation for Content" of Core Data
- Draft recommendations for content of core data themes **CP, AD, GN**

WGA Work Plan

WGA Work Plan

Political and financial framework

- Additional measures
- Good practices Case studies

Remains to be done (2018)

Economic model for production and diffusion of core data

- licensing
- Open data
- Input from existing initiatives and projects
- Production or upgrade processes

Remains to be done (2018)

Recommendations for Content

- Core data scope
- Recommendations for Content

Core Data Scope: done

Recommendations for content (2016-2017):

- Common Principles
- 3 themes drafted

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

OrtholImagery

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

Recommendations for Content
Principles - 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

→ WG A Deliverables have been renamed
  - From "Core Data Specifications"
  - To "Recommendations for Content"

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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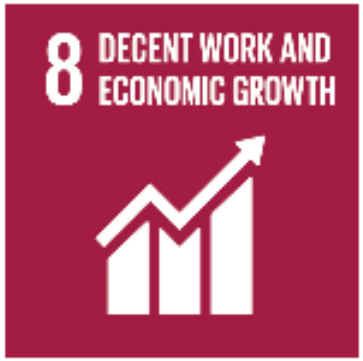
Geographic extent

- **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



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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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11 SUSTAINABLE CITIES AND COMMUNITIES

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

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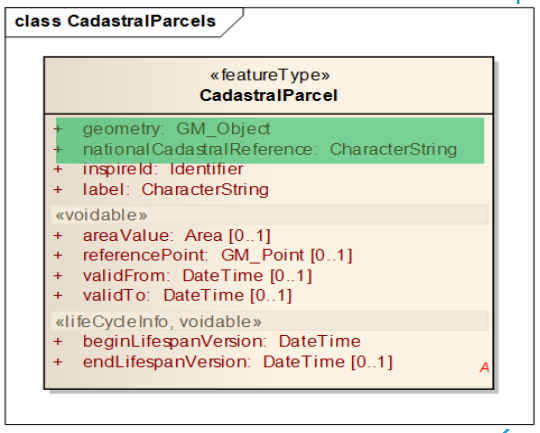
Strategy for Core Cadastral Parcels

- 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



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Draft Recommendations for Content

First Results of the Working Group Theme "Addresses"

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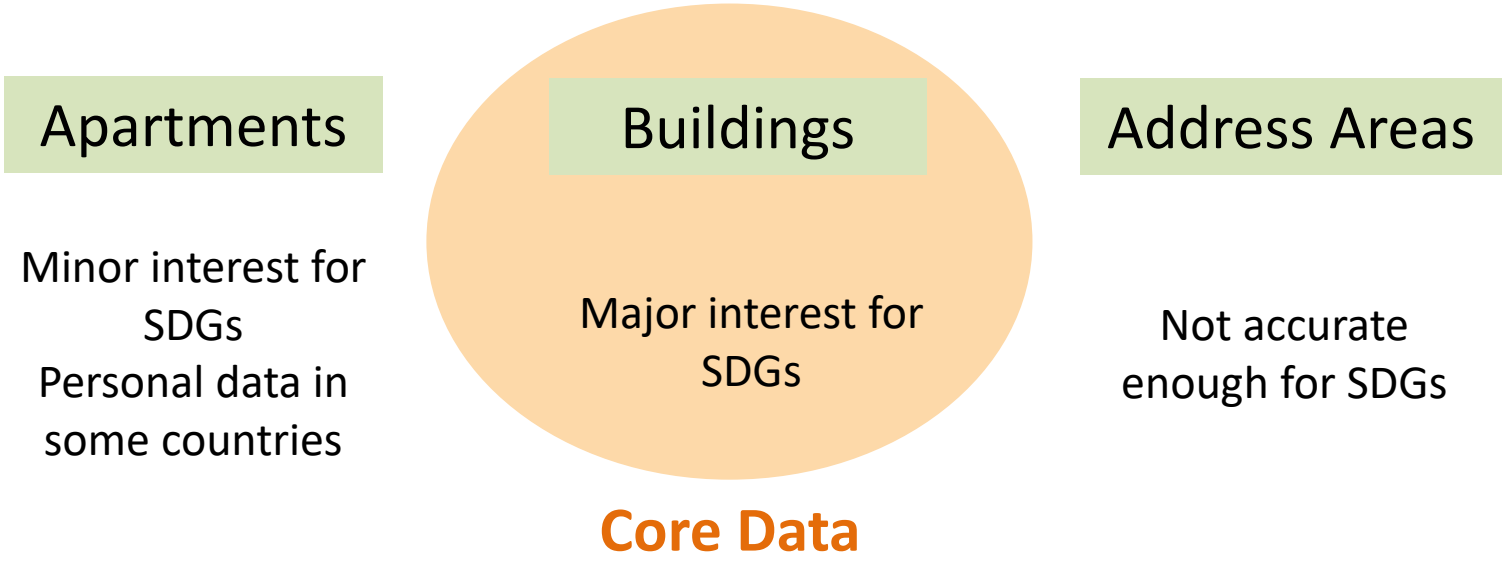
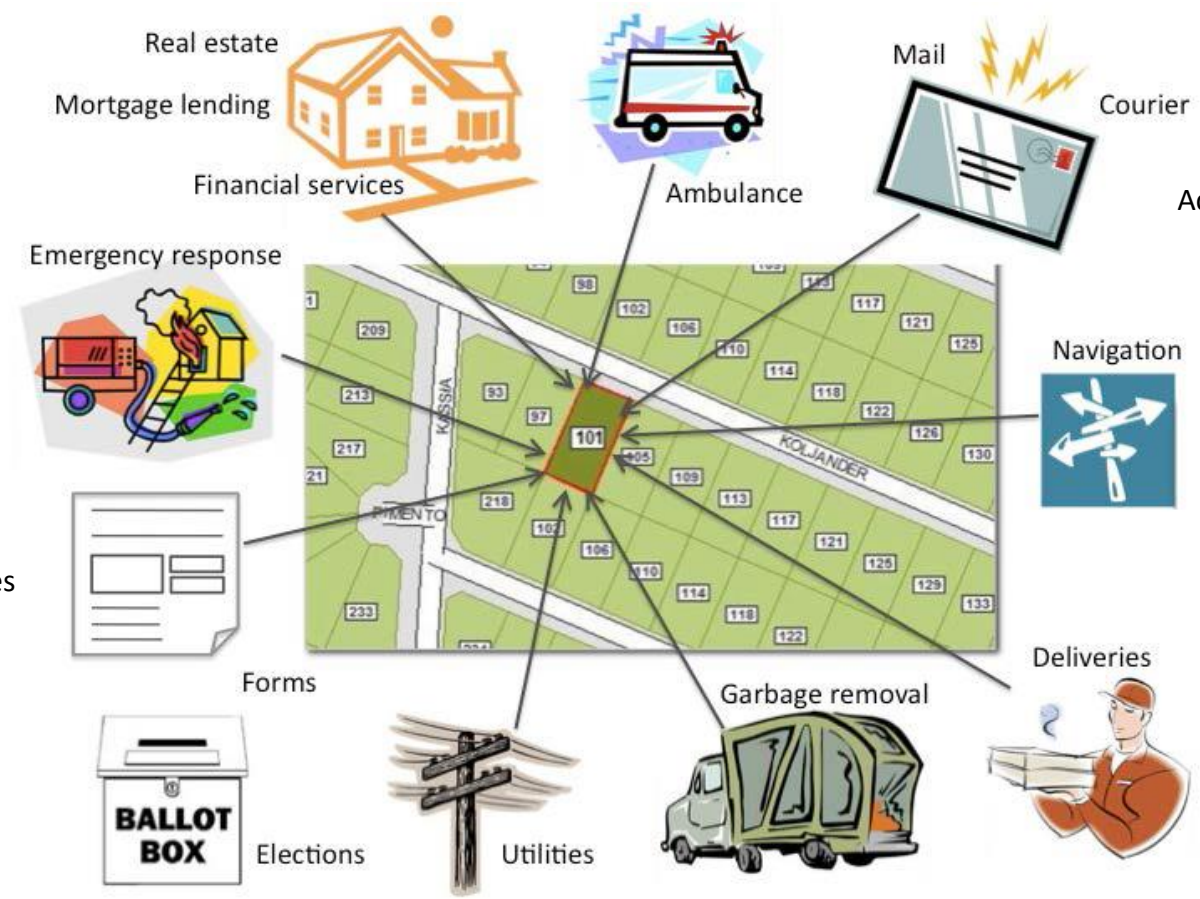
Core Address Data - Scope

- Proper level of address data



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

Core Address Data – Scope



1 NO POVERTY

Access to basic services

3 GOOD HEALTH AND WELL-BEING

Reduce the number of deaths and illnesses

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

GEOSTAT 2 and AD Core Data

- Already considered by WG A
  - Completeness
  - Coverage
  - Accuracy (couple of meters)
  - ETRS-89
  - True address - Full street address
  - Reference AD data shared by all
  - Temporal management

Priorities to be revised

- Not yet considered by WG A
  - Cross-theme consistency
    - Address has to be on the right side of the street and to be in the right SU
  - Need for nationally and officially agreed geocodes or identifiers

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

Next Steps

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
  - AD and GN coming soon

Core data to be adopted and promoted
By the geo-statistic community
not only by WG A

- Your review would be welcome for producing the Final Deliverable
  - Deadline: End of May for CP (tbc)
  - Expected Comments:
    - Unclear recommendations
    - Irrelevant recommendations
    - Important topics missing

Theme	Analysis	Decision Making					Draft Deliverable *WGA Review*		Consolidated Deliverable *General Review*		Definitive Deliverable	
AD												
AU												
CP												
GN												
HY												
TN												
EL												
OI												
LC												
SU												
BU												
LU												
US												
AM												

Thank you for your attention