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Core geographic data addressing the requirements of the statistical community

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Core data



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What is Core Data?

- An initiative from UN-GGIM: Europe
 - United Nations initiative on Global Geographic Information Management
 - Working Group on Core data
- Objectives :
 - **Define priorities for production** of new data (or enhancement of existing data)



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What is Core Data?

- Core data is **priority data**
 - Geospatial data
 - The most useful to analyse, achieve or monitor the SDGs
 - Sustainable Development Goals
 - Directly or indirectly



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Requirements of statistical community



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How to get aware of these requirements ?

- Statistical community represented in WG on core data
- Bibliography
- Questionnaires
- Joint meetings
- Review of WG A deliverables by statistical community



UN-GGIM has been good opportunity to make closer to one another the geographic and statistical communities



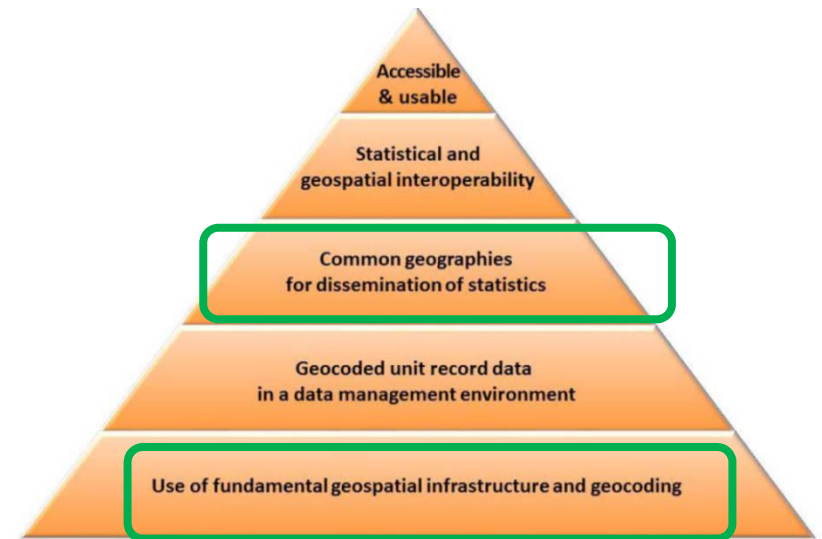
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Main requirements

- Statistical community uses geospatial data
 - To capture or to georeference statistical information
 - To compute some indicators
 - To display statistical results on maps



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Capturing or georeferencing statistical data



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Capturing statistical data (e.g. census)

- Previous practice: capture on administrative units
 - Not very detailed
 - Temporal changes whereas statisticians require long rows of data => identify trends and evolutions
- Current trend
 - Capture statistical data on a point-based geospatial framework: AD, CP, BU
 - => enables aggregation on any kind of geometries
 - => get rid of changes on AU



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Core data answer

- Themes CP, BU and AD have been selected as core data themes
- Recommendations for content
 - Based on INSPIRE
 - And adding quality requirements, mainly on **completeness**
 - CP on whole land territory, including public domain
 - **"true" addresses everywhere** , including in rural area
 - True address : with street name + house number (or name)

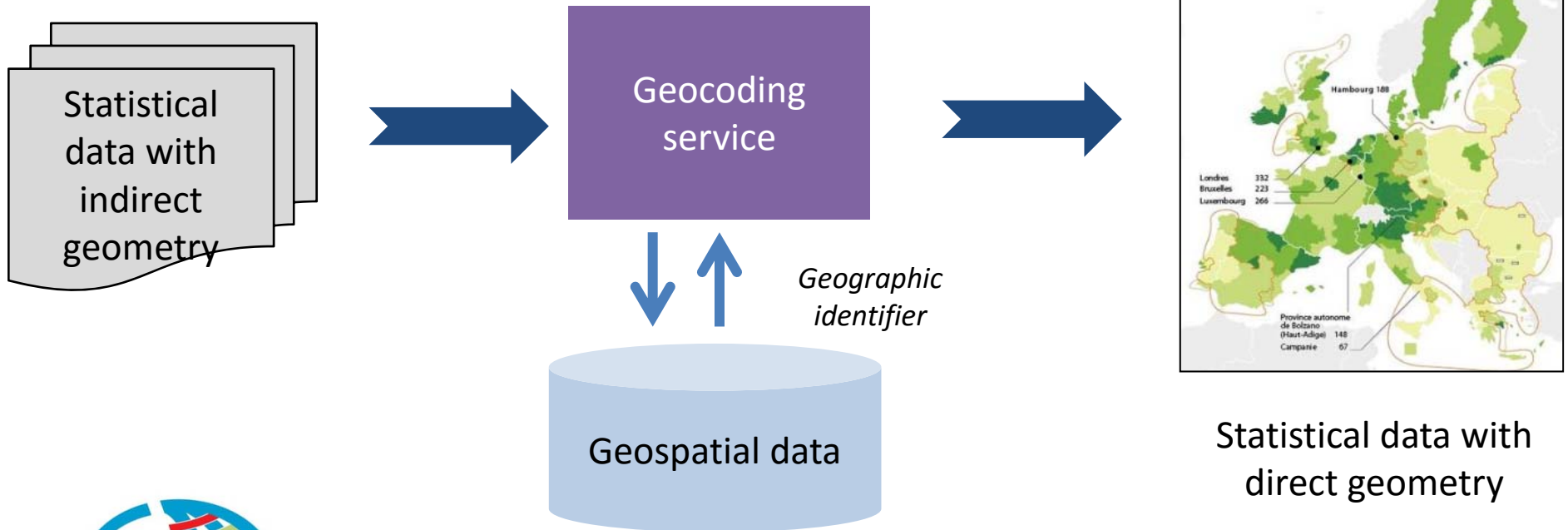


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Geocoding statistical data



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Core data answer

- Themes including geographic identifiers have been selected as core data themes : **AU, GN, AD**
- Recommendations for content
 - Based on INSPIRE
 - And adding quality requirements,
 - **On completeness**
 - **On semantic reliability**
 - Take care of spelling of geographical names and on street names



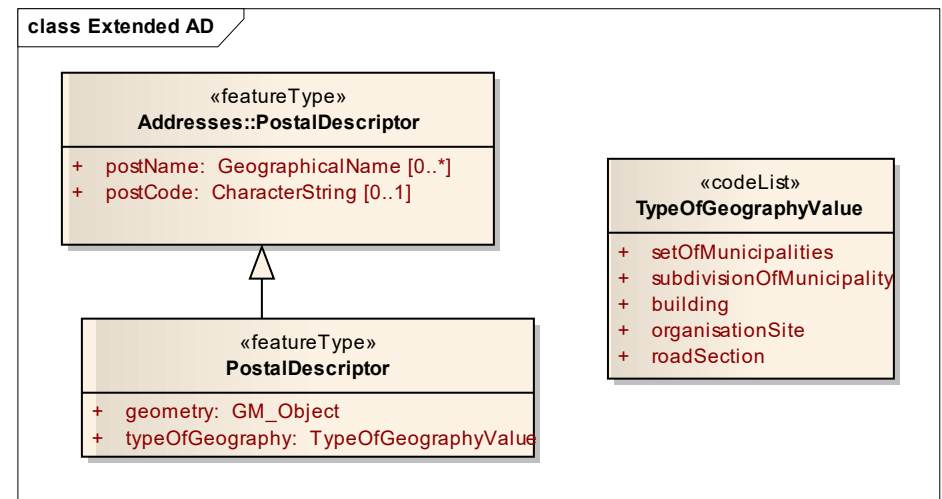
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Core data answer

- Recommendations for content
 - Including postal code geometry (under discussion)
 - Address from the past
 - Of interest for statistical purposes
 - But not core



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Computing indicators



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Computing indicators

- Some SDG indicators consume geospatial data

From	Tier	Indicator
IAEG WG GI GEO	I	14.5.1 Coverage of protected areas in relation to marine areas
IAEG WG GI GEO	I	15.1.1 Forest area as a proportion of total land area
IAEG WG GI GEO	II	11.2.1 Proportion of population that has convenient access to public transport, by sex, age and persons with disabilities
IAEG WG GI GEO	II	11.3.1 Ratio of land consumption rate to population growth rate
IAEG WG GI GEO	III	11.7.1 Average share of the built-up area of cities that is open space for public use for all, by sex, age and persons with disabilities
National		New housing close to public transport stops (Sweden)

SDG related indicators at various levels: global, Europe, national



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Core data answer

- Related themes have been selected as core data:
 - Accessibility indicators : BU, Basic Services (US), TN
 - Specific areas and their protection: LC/LU , AM-PS
- Recommendations for content
 - Quality recommendations
 - Ex: Completeness should be ensured for Basic Services, at least for schools and hospitals.
 - Management zones required by the SDG indicators (e.g. forest management areas) under priority scope (AM)



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Displaying statistical data



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Displaying statistical data

- Expected characteristics of Statistical Units
 - Balance between detailed information and privacy rules
 - Persistent geometries
 - Well-known
 - Relevant geographic coverage (whole territory/ urban areas)
 - Facilitating comparisons
 - Same area
 - Similar population ranges

Various kinds
of statistical
units



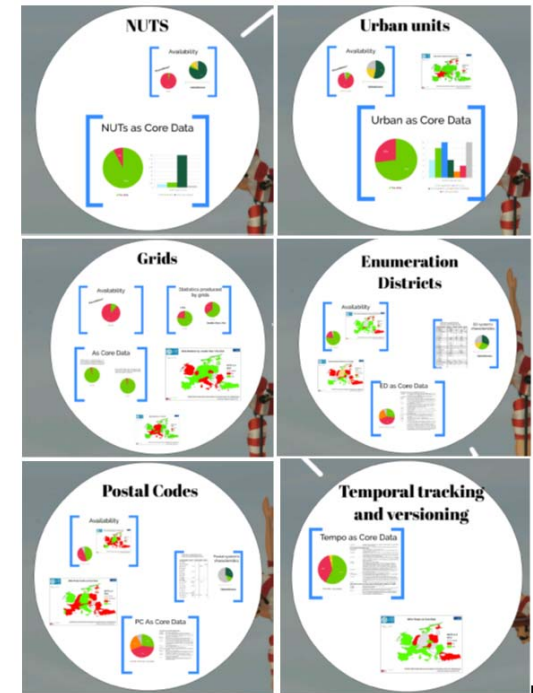
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Core data answer

- Theme SU has been selected as core data:
- Recommendations for content
 - Priority SU:
 - Grid
 - Terrestrial Units for statistics
 - Urban units
 - Enumeration districts
 - Recommendations on temporal aspects



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Conclusion



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- Core data aims to analyse, achieve or **monitor** the SDGs
 - Monitoring is role of the statistical community
 - But there are other requirements
- Core data is about priorities for new production or enhancement
 - Feasibility issues
 - Cost/benefit considerations

Core data taking great care of statistical community requirements but mainly driven by SDG in general



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Thank you for your attention

For more details:

<http://un-ggim-europe.org/content/wg-a-core-data>



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