UN-GGIM: Europe | Work Group on Data Integration | subgroup 2

The territorial dimension in SDG indicators: geospatial data analysis and its integration with statistical data

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ANNEX

Read me first

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The following annex comprises the compilation of the analysis carried out for the four selected SDG indicators taking into consideration the global level as well as the background and experiences of European and national initiatives addressing the SDGs from a geospatial perspective.

The selected indicators were analysed based on a template [see below] which comprises a set of fields to describe the current reporting situation and to provide a gap analysis on the methodology and geospatial data integration suggested for the indicator.

For each indicator the analysis is presented for:

A| the global metadata available for the indicator, defined under the scope of the IAEG-SDG;

B| the national practices provided by the WG members;

C| the corresponding EU SDG indicator, defined under the scope of the EU SDG indicator set to measure progress towards the SDGs in the EU context.

The use of the template provides a comprehensive and harmonized outline for the analyses carried out at the different levels (global, European and national), but completion and the level of detail provided may vary depending on the information available and the status of development of the indicator at global level (e.g., tier classification), as well as at European and national levels.

Template for indicator analysis

1. CURRENT REPORTING SITUATION

Responsibility: (Identify the agency responsible for the indicator and the situation regarding the ESS and NSS projects (including dissemination) and /or INSPIRE conformance)

Indicator disaggregation: (List the indicator disaggregation by income, gender, age, race, ethnicity, migratory status, disability, geographic location and other characteristics relevant in national contexts to support the monitoring of the implementation of the SDGs)

Frequency of dissemination: (Describe the time interval at which information is disseminated over a given time period)

Timeliness: (Length of time between data availability and the event or phenomenon they describe. Describe the average production time for each release of data)

Data sources: (List the data sources and themes or variables in use, including conditions of access, timeliness and frequency of dissemination, situation regarding the ESS and NSS projects (including dissemination) and /or INSPIRE conformance)

Geospatial data analysis and integration: (Describe spatial analysis methods, procedures and computations, including regarding data integration)

Data quality requirements: (List in general terms the requirements for the sources and themes in use with relevant parameters: Resolution, completeness, logical consistency, positional accuracy, temporal accuracy etc. List if certain international standards are being followed, including classifications/nomenclatures. Data quality should allow computing results to the needed level of resolution and disaggregation). Please take into account the EURO-SDMX Metadata Structure (ESMS) 2.0

Current use of geospatial data for the indicator: (Describe the current use of geospatial data, as suggested by the existing metadata – the "as-is" situation)

2. SUGGESTED METHODOLOGY

GAP analysis: (Describe what changes in use of **applied methods** are needed to go from the suggested/current procedure for monitoring the indicator, to a future procedure which better fulfils the reporting requirements - going from the "as-is" situation in the present metadata proposal to a "to-be" situation)

3. SUGGESTED GEOSPATIAL DATA INTEGRATION

GAP analysis: (Describe what changes in use of **data** needed to go from the suggested/current procedure for monitoring the indicator, to a future procedure which better fulfils the reporting requirements - going from the "as-is" situation in the present metadata proposal to a "to-be" situation)

List required geospatial data: (Develop a list from the GAP analysis, which lists the geospatial data sources and themes which are required to support the to-be situation, including INSPIRE conformance)

Data quality requirements: (List in general terms the requirements for the suggested sources and themes with relevant parameters: Resolution, completeness, logical consistency, positional accuracy, temporal accuracy etc. List if certain international standards should be followed including classifications/nomenclatures. Data quality should allow computing results to the needed level of resolution and disaggregation). Please take into account the EURO-SDMX Metadata Structure (ESMS) 2.0

Data availability: (List the data availability for the suggested sources and themes or variables: 1) Geographically: national/regional/global (as well as comparability across countries), 2) Source: Accessible through services or download, 3) Commercial/legally: license conditions - are data free or are there restriction on use; 4) Timeliness; 5) Frequency of dissemination)

Data collection: (Describe how the geospatial data for the indicator can be collected/made available, and issues to overcome – are there many sources to collect from, do they need to be integrated and normalized etc.)

Geospatial data analysis and integration: (Describe which analysis, procedures and computations are needed to provide the results needed to support the reporting requirements - "to-be" situation)