Report from the UN-GGIM: Europe Working Group on Data Integration

UN-GGIM EUROPE | UNITED NATIONS COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

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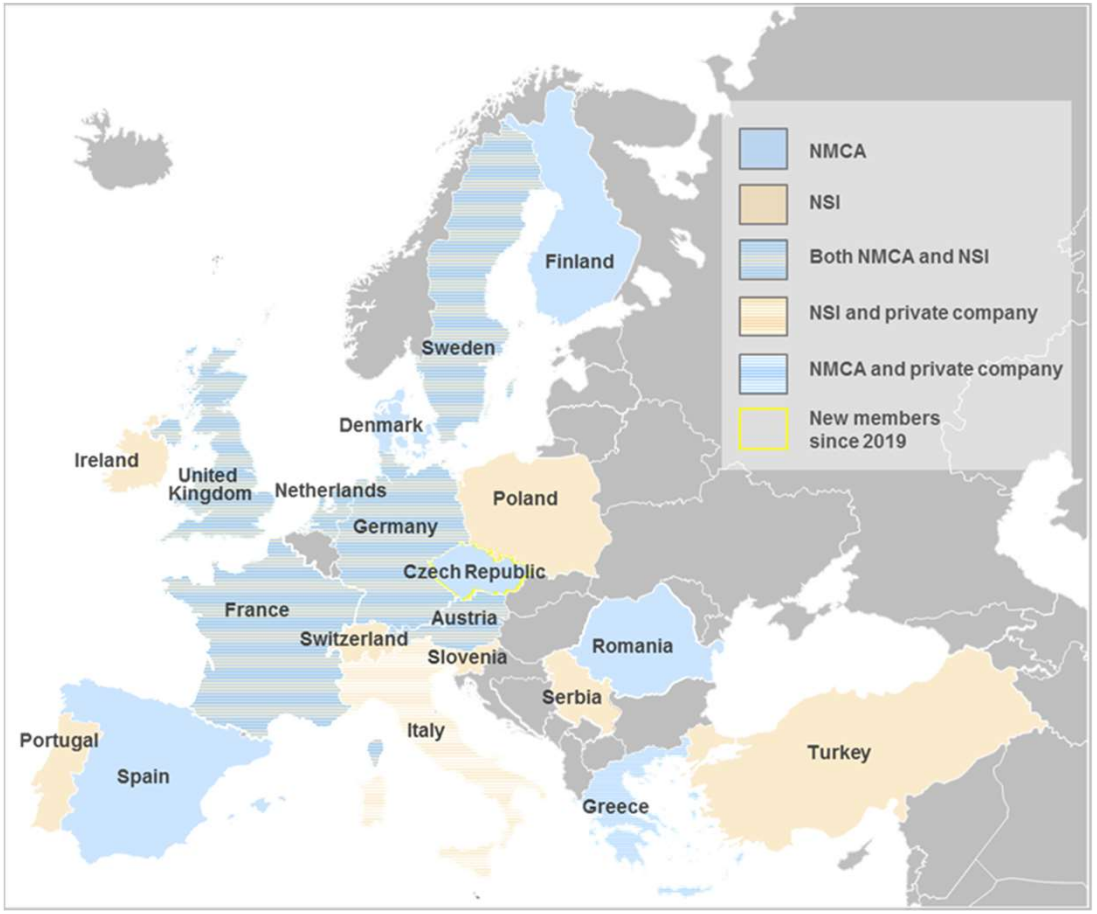
JOINT UN-GGIM: EUROPE – ESS - UNECE MEETING ON THE INTEGRATION OF STATISTICAL AND GEOSPATIAL INFORMATION
23-24 March 2020
Luxembourg

UN-GGIM: Europe Working Group Data Integration

The Working Group is chaired by Germany and deals with the integration of geospatial data with other information.
Currently National Mapping and Cadastral Authorities and National Statistical Institutes from about 20 European UN Member States are members of this Working Group.
Eurostat, the Joint Research Center and the European Environment Agency also participate in the working group.



https://un-ggim-europe.org/working-groups/working-group-data-integration/

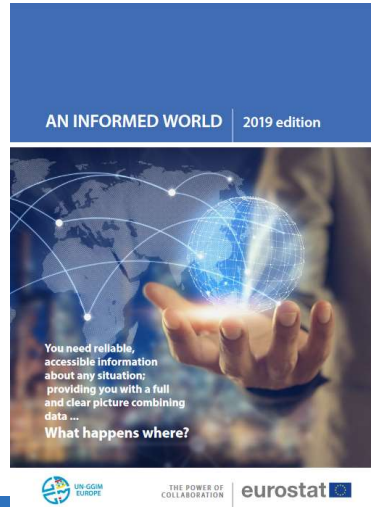
Work plans

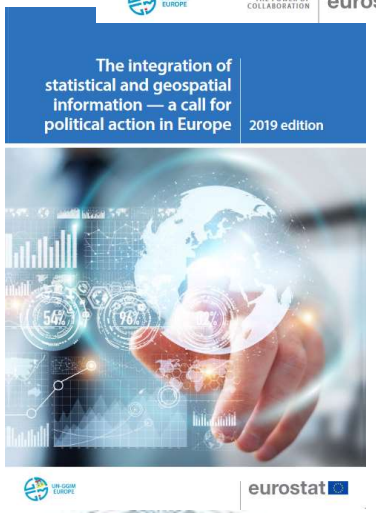
1	Work plan 2014 – 2016 ✓ B1: Definition of the priority user needs for data combinations ✓ B2: Recommendations for implementing prioritized combinations of data ✓ B3: Recommendations on how to manage side-effects
2	**Work plan 2017 – 2019** ✓ Task 1: Draft a policy outreach paper on data integration ✓ Task 2: Analyse four SDG indicators at a global, regional and national level
3	Work plan 2019 - 2022 ❑ Concept 1: Analysing further SDG indicators ❑ Concept 2: Advisory group for data integration issues ❑ Concept 3: Analysing future trends in data integration

2 Work plan 2017 - 2019

Task 1 Questionnaire & Policy Outreach Paper & Leaflet

Questionnaire	Policy Outreach Paper	Leaflet
✓ provided information on data integration	✓Promotes the benefits of data integration ✓Recommendations on data integration	✓Strengthen information ✓Effective examples of data integration
Published	Published	Published





2 Selected SDG indicators

Task 2

11.2.1
tier II indicator

Proportion of population that has convenient access to public transport, by sex, age and persons with disabilities

Indicator coordinator: Austria (NSI)

Contributors: Austria (NSI), France (NMCA), Ireland (NSI), Sweden (NSI), Switzerland (NSI)

11.3.1
tier II indicator

Ratio of land consumption rate to population growth rate

Indicator coordinator: Portugal (NSI)

Contributors: Finland (NMCA), Ireland (NSI), Italy (e-GEOS), Portugal (NSI and NMCA)

11.7.1
tier III indicator (currently tier II)

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

Indicator coordinator: Sweden (NSI)

Contributors: Ireland (NSI), Sweden (NSI and NMCA), Switzerland (NSI)

15.1.1
tier I indicator

Forest area as a proportion of total land area

Indicator coordinator: Italy (e-GEOS)

Contributors: Austria (NMCA), Finland (NMCA), France (NMCA), Germany (NMCA), Italy (e-GEOS), Spain (NMCA)

2 Final Report

Task 2

The report focuses on the contribution of geospatial data analysis and its integration with statistical data at a global, European and national perspective based on the analysis of the four selected SDG indicators.

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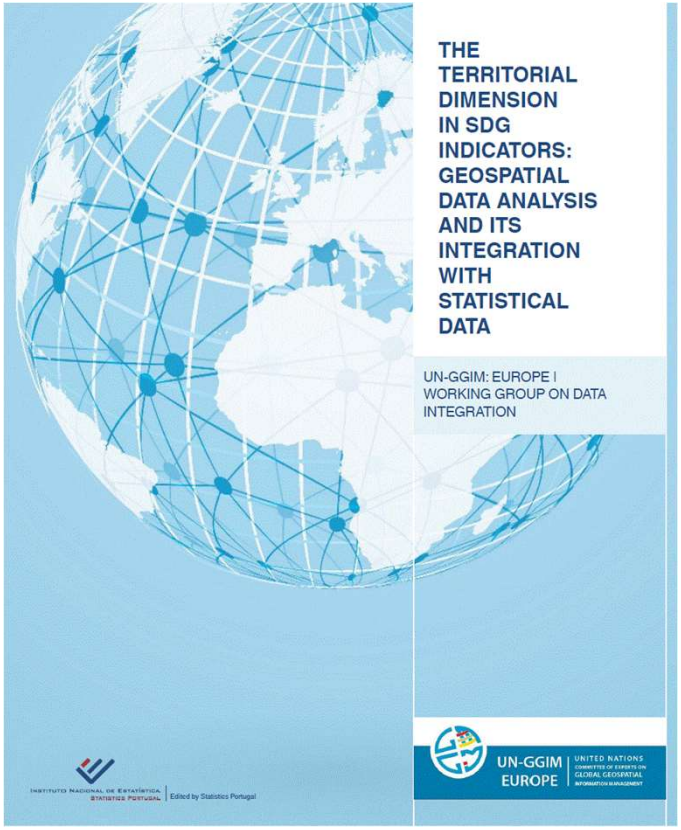


https://un-ggim-europe.org/wp-content/uploads/2019/05/UN_GGIM_08_05_2019-The-territorial-dimension-in-SDG-indicators-Final.pdf

Recommendations towards a more effective geospatial data integration to address SDG statistical indicators

1. Harmonize relevant geospatial data themes
2. Implement Cadastral and Land Cover data as key national authoritative data
3. Use geospatial layers generated from Earth Observation data
4. Create capacity building initiatives for NSI to take full advantage of EO based data
5. Define and implement NSDIs having in mind the requirements for statistical production
6. Implement consistent and stable sub-national spatial units
7. Develop and use population grids and other grid-based statistics
8. Adopt harmonised and comparable concepts, definitions and classifications and build consensus among Geospatial Agencies and National Statistical Institutes
9. Ensure availability and accessibility of processing workflows, including open formats of programming codes
10. Develop initiatives that promote availability, accessibility and usability of geospatial data
11. Increase the collaboration with researchers and data providers
12. Increase cooperation between National Statistical Institutes and Geospatial Agencies

Work plans

1

Work plan 2014 – 2016

- ✓ B1: Definition of the priority user needs for data combinations
- ✓ B2: Recommendations for implementing prioritized combinations of data
- ✓ B3: Recommendations on how to manage side-effects

2

Work plan 2017 – 2019

- ✓ Task 1: Draft a policy outreach paper on data integration
- ✓ Task 2: Analyse four SDG indicators at a global, regional and national level

3

Work plan 2019 – 2022

- ☐ Concept 1: Analysing further SDG indicators
- ☐ Concept 2: Advisory group for data integration issues
- ☐ Concept 3: Analysing future trends in data integration

What's next – Work Plan 2019-2022

Kick off meeting to define the new work plan for the next period 2019-2022 was held on the 30-31 October 2019. The tasks were agreed by the 30 participants in attendance

These include:

- the analysis of further SDG indicators, probably with focus on environmental issues
- the collection of "Data Integration Methods" to enhance and promote data integration in general
- the role as an Advisory Group to serve data integration activities and projects of the UN and the EC

3 SDG indicators analysis

Task 1

Scoping Paper describing the work planned

AIM

Provide methodological, operational and technical guidance in the use of geospatial data and statistics to compute SDG indicators, with a European and national perspective, and reflecting on solutions which may contribute to reduce statistical burden and increase the level of detail of SDG indicators

LINES OF WORK

- ✓ **Benchmarking pan-European data sources**
  comparative analysis between pan-European and national methodologies, data sources and results
- ✓ **Integration of pan-European data sources with national data sources** analyze the combination of pan-European with national data sources to extract new relevant information for indicators computation

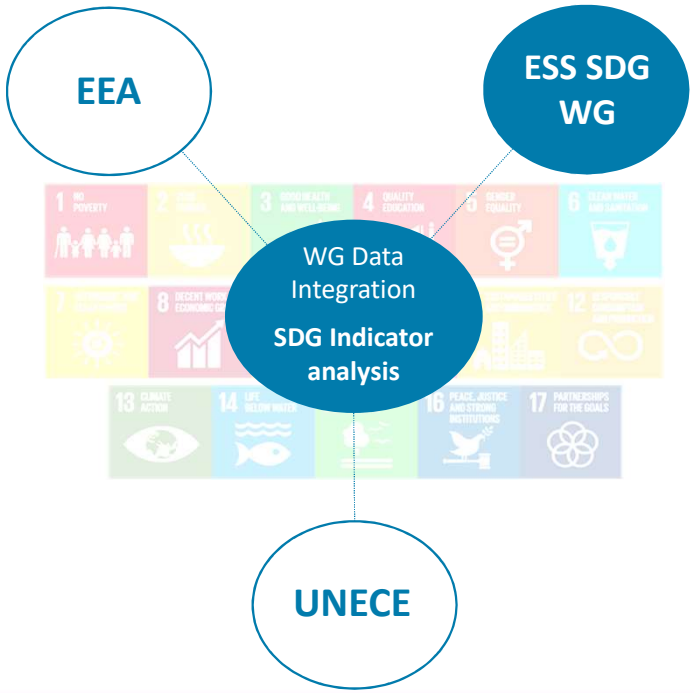
EXPECTED OUTPUTS

- ✓ **Standard methodological/technical documents** compiling the solutions analysed and the normative methodological guidance
- ✓ **Flyers/leaflets** synthesising and illustrating the approaches analysed and the main results

3 SDG indicators analysis

Task 1

COOPERATION
relevant stakeholders



Cooperating with ESS SDG Working Group

Would allow…

- ✓ To discuss our work and proposals directly with the official representatives of ESS: NSIs and Eurostat
- ✓ To coordinate and streamline recommendations with EU position
- ✓ To obtain direct feedback from NSI delegates
- ✓ To test recommendations and methodological guidance on the use of geospatial information for its practical value for countries

3 SDG indicators analysis – Work Plan 2019-22

Task 1

Current list of SDG Indicators for analysis

- 3.6.1 | Death rate due to traffic injuries (tier I)
- 6.6.1 | Change in the extent of water-related ecosystems over time (tier I)
- 11.2.1 | Accessibility to public transports (tier II)
- 11.3.1 | Ratio of land consumption rate to population growth (tier II)
- 11.6.2 | Annual mean levels of fine particulate matter (e.g. PM2.5 and PM10) in cities (tier I)
- 11.7.1 | Access to public / green areas (proxy) (tier II)
- 14.5.1 | Coverage of protected areas in relation to marine areas (tier I)
- 15.1.1 | Forest area as a proportion of total land area (tier I)
- 15.3.1 | Proportion of land that is degraded over total land area (tier I)
- 15.4.1 | Coverage by protected areas of important sites for mountain biodiversity (tier I)

3 Data Integration Methods

Task 2

Scoping Paper describing the work planned

+++ will be ready soon +++

AIM	**Analysis of different data integration methods used across Europe** like "Table Joining Services" (TJS), "Linked Data" (LD) or "geocoding". The benefits, adequacy of each method to use cases will be scanned and best practices will be identified and realistic examples of these methods shown. **An an impact assessment at economic and organization level will be investigated.**
LINES OF WORK	✓ **Evaluate former deliverables** of the WG Data Integration ✓ **Evaluate links to the GSGF and GSGF-Europe and connect with GEOSTAT-4** ✓ **Identify best practices** for data input, creation, maintenance and management ✓ Consider **economic, political and social level** of each method ✓ **Determine Pros and Cons** of each methods **& recommendations**
EXPECTED OUTPUTS	✓ **Management summary (brochure)** ✓ Other output options to be discussed…

Find out more about UN-GGIM: Europe

- UN-GGIM: Europe website
- Twitter

https://un-ggim-europe.org/

Thank you!

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