# UN-GGIM: Europe Line of Work
# Sustainable Development Goals

## Introduction to the session

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

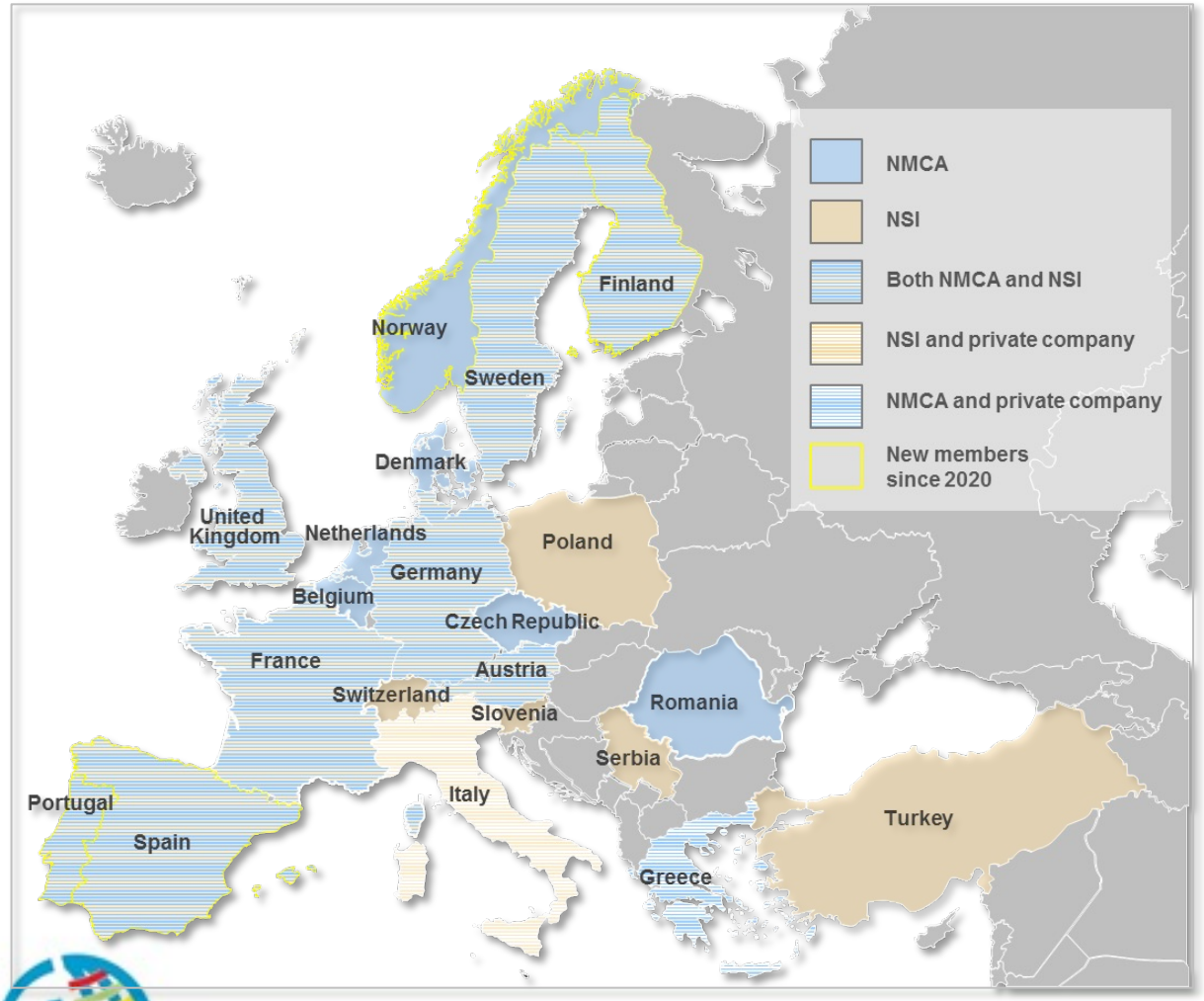
Pier-Giorgio Zaccheddu, BKG
Francisco Vala, NSI Portugal

*Showcasing the added value of geospatial and statistical data integration to compute SDG indicators*

25 April 2023

# Working Group on Data Integration – Who are we?

Join at
slido.com
#UNGGIME-2023-2




- **25-30 members from Member States** affiliated to geospatial and statistical agencies
- **Private companies**
- **Observer organisations**, like Eurostat, EC Joint Research Center (JRC), DG REGIO, European Environment Agency (EEA), University Bonn

# Working Group on Data Integration

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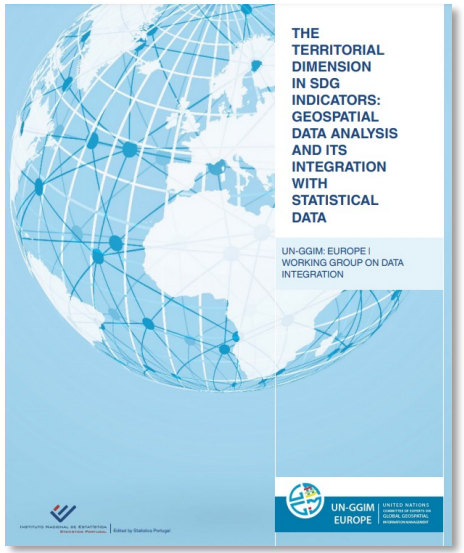


## Work Plan 2017 – 2019 deliverables on SDG indicator analysis


Address the **contribution of geospatial data analysis** and its integration with statistical data at a **Global, European and National** perspective based on the analysis of selected SDG indicators

**11.2.1** *tier II indicator*
Proportion of population that has convenient access to public transport, by sex, age and persons with disabilities
**Coord: NSI, Austria**

**11.3.1** *tier II indicator*
Ratio of land consumption rate to population growth rate
**Coord: NSI, Portugal**

**11.7.1** *tier III indicator* *[moved to tier II as of 27 November 2018]*
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
**Coord: NSI, Sweden**

**15.1.1** *tier I indicator*
Forest area as a proportion of total land area
**Coord: e-GEOS, Italy**

## Work Plan 2019 – 2022 deliverables on computing SDG indicators


**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 increase disaggregation




→ Harmonised guidelines on the computation of four SDG indicators

# SDG calculation – Overarching conclusions

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| | |
|---|---|
| **Pan-European products make it possible to compute SDG indicators** | *Pan-European geospatial datasets are a first step allowing for a detailed computation at EU level with a good degree of homogeneity and comparability of data for SDG indicators 11.3.1, 15.1.1 and 15.3.1* |
| **Data sources serve more than one SDG indicator** | *Pan-European geospatial products capturing relevant dimensions on land monitoring can serve more than one SDG indictors - the Copernicus Imperviousness Layer (IMD) provides data both for SDG indicators 11.3.1 and 15.3.1* |
| **Administrative boundaries are core for comparable cross-country results** | *It is important to have updated authoritative geographies for the definition of local, regional, and national territorial boundaries. At the European level, EuroGeographics is working towards providing easy access to pan-European open data created using official map, geospatial and land information.* |
| **Harmonised territorial typologies guarantee comparability** | *The Degree of Urbanisation (DEGURBA) and the Functional Urban Areas (FUA) capture the urban dimension guarantying European/Global comparability for SDG indicators 11.2.1 and 11.3.1* |
| **Authoritative data on transport networks is crucial** | *Working towards having authoritative data on transport networks and public transport timetables or making EC shared services available for the use of MS is crucial to capture and measure accessibility as proposed for SDG indicator 11.2.1* |

| | |
|---|---|
| **Stability is key for EO derived products** | *Geospatial data sources evolve rapidly, and innovation and new products are relevant and necessary. Nevertheless, for statistical indicators continuity, periodicity and comparability of data sources is key to meet the standard criteria of statistical information production to guarantee a coherent process of SDG monitoring.* |
| **Accounting for bias should be considered when deriving statistics from EO** | *For statistical indicators resulting from earth observation classified data, accounting for bias should be considered. This point is particularly relevant to cope with statistical standards and as the level of territorial detail and segmentation of data increases.* |
| **Coordinate shared knowledge and resources to deal with EO** | *Dealing with EO based data presents increased levels of complexity in terms of data volume and machine data processing. At the European level, it is important to invest in shared knowledge and resources on processing workflows, coding, and data processing solutions, allowing the automatic or semi-automatic extraction of information from satellite images, as well on tools to derive statistics with quality measures.* |
| **National data sources can provide additional meaningful insights** | *National data sources can complementarily provide other segmentations at national and sub-national level relevant for policy monitoring and spatial planning policies at the local level. For SDG indicator 15.1.1, national data sources can be used to depict data by types of forest to increase insight on forest monitoring.* |

# Working Group on Data Integration → Line of Work DI & SDG

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## Integrated Geospatial Information Framework

- Activity lead – United Kingdom. ExCom lead – Sweden

## Global Geodetic Reference Frames

- Activity lead – Belgium. ExCom lead – Germany

## Data Integration

- Activity Lead – Germany Belgium, Austria. ExCom lead – Germany

## Sustainable Development Goals

- Activity lead – Germany, Portugal. ExCom lead – Portugal

## Data Strategy and Policy

- Activity lead – Poland. ExCom lead – Slovenia

# Line of Work ‚SDG' – Work plan


- To compile and put together **use cases/operational examples** and produce **recommendations/guidelines** on the calculation of SDG indicators
- To evaluate and assess the use of relevant national geospatial data as **open data**
- To provide **national show cases** for the presentation of relevant SDG indicators
- To promote and conduct **webinars / guided discussions** on specific SDG indicators and/or cross-cutting methodological issues and solutions
- To support and promote **capacity building and development initiatives** on SDG indicator calculations

→ **Link to global IAEG-SDG WG GI**

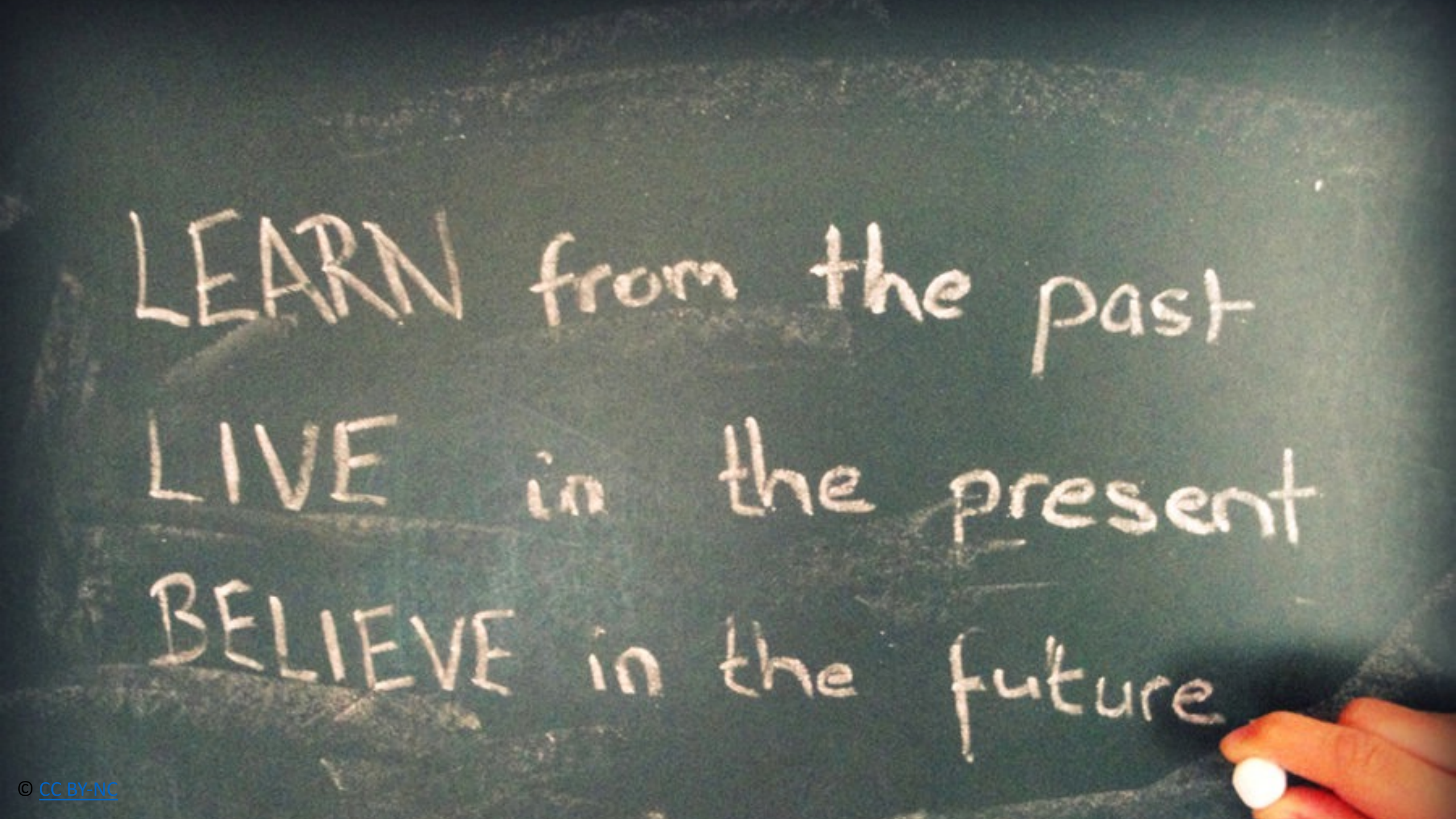
# Line of Work ‚SDG' – Webinar series

| | Webinar | Contributors | Date | Coordinator |
|---|---|---|---|---|
| **Line of Work SDGs** | | | | |
| **#1** | Showcasing the added value of geospatial and statistical data integration to compute SDG indicators | UN-GGIM: Europe | 25 April, 1 pm | Francisco Vala (Statistics Portugal) |
| **#2** | Earth Observation and SDG: uses cases and workflows | EEA, EuroGeographics, (EuroGEO/GEO?) | 23 May, 1 pm | Stefan Jensen (EEA) |
| **#3** | United Nations Geospatial Network Data Hub: "One UN Geospatial Situation Room" | UN Geospatial Network, UNECE, Eurostat, EFGS | 15 Nov, 1 pm | Ekkehard Petri (Eurostat) |
| **#4** | Open Geospatial Data for cross-country comparable statistics as a contribution to a territorial approach to the SDGs | DG REGIO | 4 October, 1 pm | Hugo Poelman, Joachim Maes (DG REGIO) |

# Line of Work, SDG‘ – next steps



- To **evaluate the outcome** of the webinars → separate evaluation reports
- To find **gaps** and **requirements** of SDG calculation issues worth to be tackled by UN-GGIM: Europe in the future
- To use synergies and establish a substantial and fruitful cooperation with UN ESGI
- To **strengthen the link** to the global initiatives on SDG calculation issues


LEARN from the past
LIVE in the present
BELIEVE in the future

# Line of Work ‚SDG' – Main contacts

Join at
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**Working Group Lead / Chair:**

Pier-Giorgio Zaccheddu, Germany

Federal Agency for Cartography and Geodesy (BKG)

pier-giorgio.zaccheddu@bkg.bund.de

Sabine Afflerbach-Thom, Germany

Federal Agency for Cartography and Geodesy (BKG)

sabine.afflerbach-thom@bkg.bund.de

**Working Group Leads / Co-Chairs:**

Francisco Vala & Célia Ferreira, Portugal

Statistics Portugal

francisco.vala@ine.pt & celia.ferreira@ine.pt

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