

# UNGGIM: Europe Working Group on Data Integration – Status and Outlook

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**UN-GGIM**  
**EUROPE**

UNITED NATIONS  
COMMITTEE OF EXPERTS ON  
GLOBAL GEOSPATIAL  
INFORMATION MANAGEMENT

EFGS 2020 virtual meeting, held by Statistics Poland  
Session 3, chaired by Mr Martin Brady  
21 October 2020



# UN-GGIM – Global Geospatial Information Management



## Objective:

Strategies for an integrated geospatial collection, maintenance and usage

Formal inter-governmental UN Committee of Experts

*“To make accurate, reliable and authoritative geospatial information readily available to support national, regional and global development”*

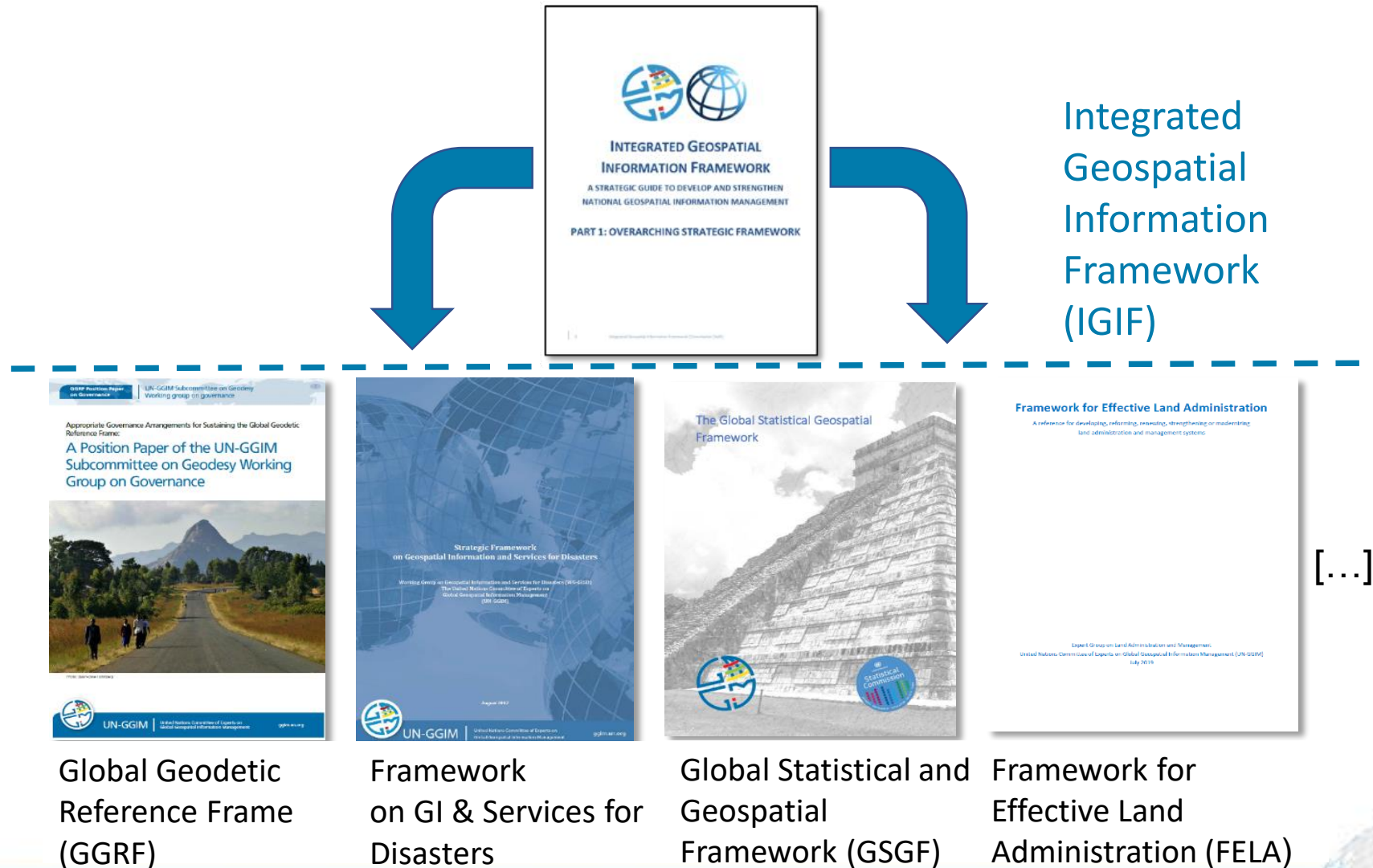


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# UN-GGIM – Global Geospatial Information Management



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# The rationale... on a global level

## Global Statistical and Geospatial Framework (GSGF)

“five guiding principles”

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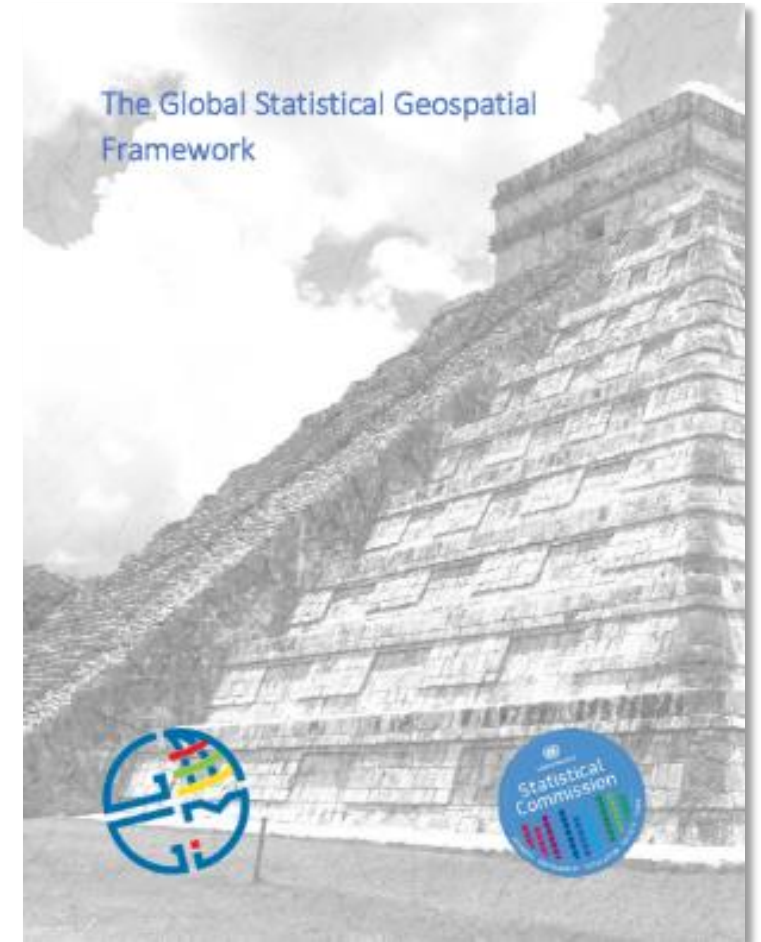
5.  
Accessible  
and usable

4. Statistical and  
geospatial  
interoperability

3. Common geographies for  
dissemination of statistics

2. Geocoded unit record data in a data  
management environment

1. Use of fundamental geospatial infrastructure and  
geocoding

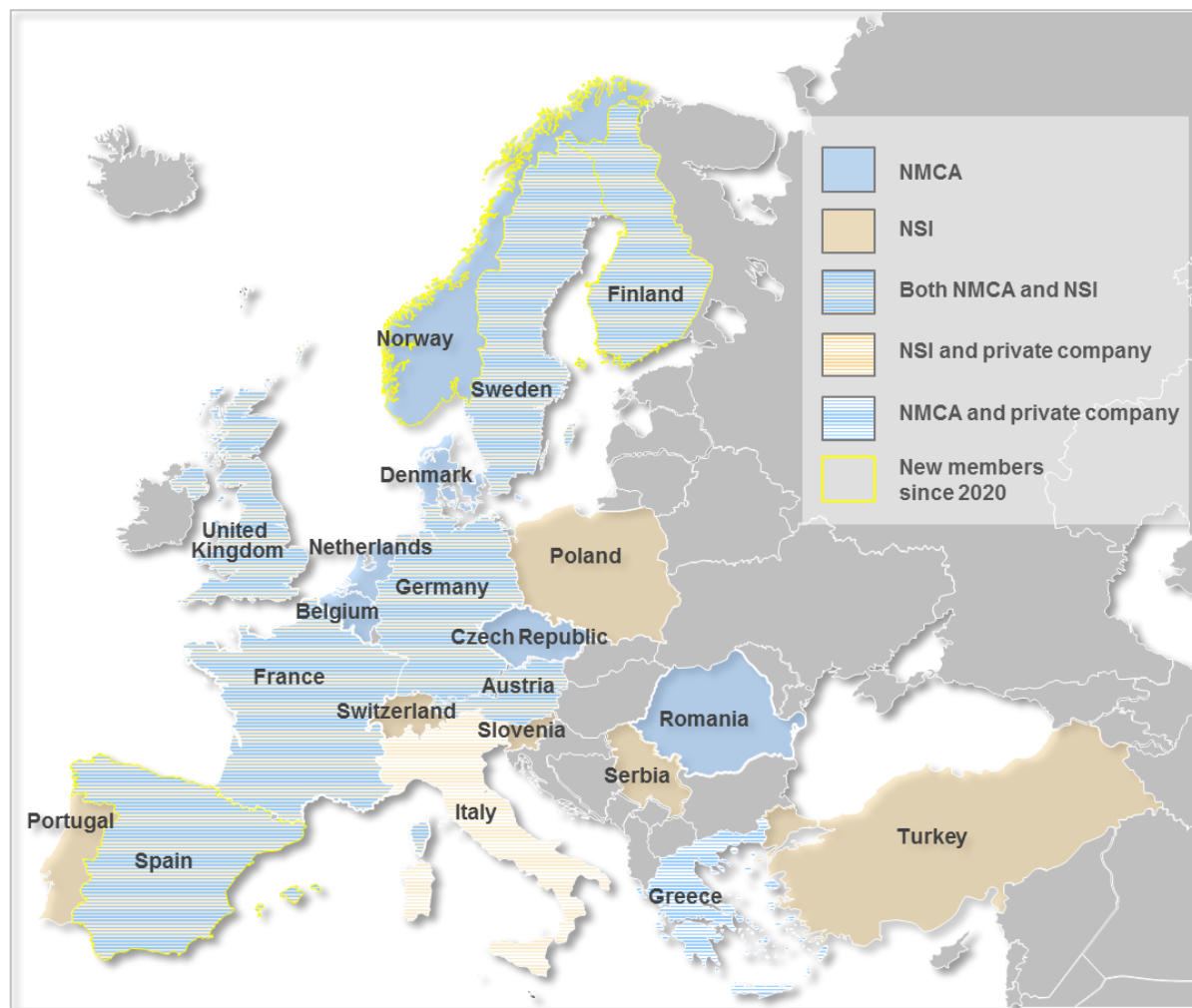


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# Working Group on Data Integration – distribution across Europe



- **25-30 members from Member States** affiliated to geospatial and statistical agencies
- **Private companies**
- **Observer organisations**, like EEA, University of Bonn



# The main outcome and findings...

**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

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



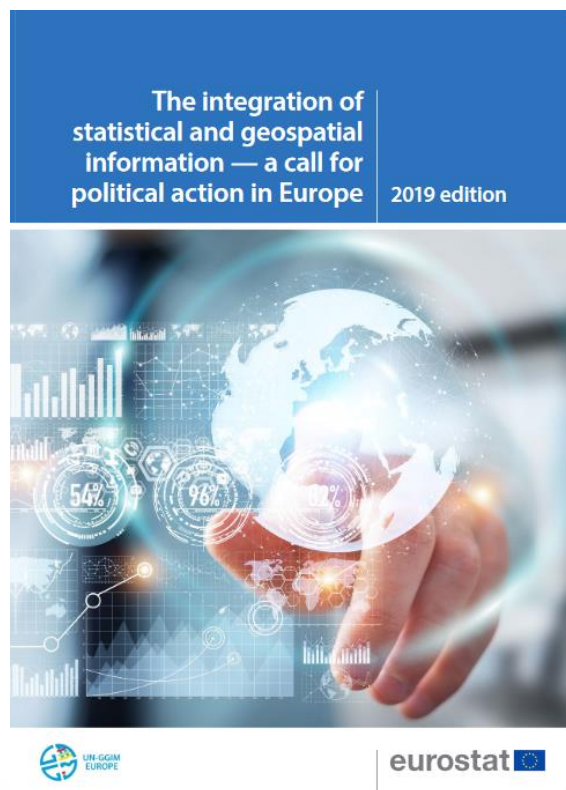


# 2

## Work Plan 2017-2019... today

### Task 1

### Evaluation of the recommendations in the Policy Outreach Paper



Review – deadline: 30.06.2020

15 answers received in April 2020



Request was sent out in February 2020 to 63 NMCAs, 43 NSIs and 9 Observer



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# Work Plan 2019-2022

Kick off meeting on the 30-31 October 2019

The following tasks were agreed by the 30 participants in attendance:

- 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



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# 3

## SDG indicators analysis (Subgroup I)

### Task 1

#### 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**  
analyse 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



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## Scoping Paper describing the work planned



The integration of geospatial data and statistics to compute SDG indicators:  
requirements and practices

UN-GGIM: Europe | Work Group on Data Integration | subgroup 1

Version 1.0  
2020-02-19

Endorsed by UN-GGIM: Europe  
Plenary Meeting, June 2020



# 3

## SDG indicators analysis (Subgroup I)

### Task 1

- Assessment Matrix in March 2020
    - For the 10 indicators included in the short list, SWG members provided a first set of inputs based on an assessment matrix → A total of 11 or 12 replies were received, depending on the SDG indicator (Top Prio: 11.2.1, 15.3.1)
    - A brief document summarizing the results obtained for the most relevant question for indicator selection was produced
  - Input from EEA in April 2020 (Top Prio: 14.5.1, 15.1.1, 15.3.1)
  - Poll in July 2020
    - The SWG agreed to set a poll for members to express their interest in the analysis of these 3 environment-oriented SDG indicators to help select 1 or 2 additional indicators to be coordinated by EEA (Top Prio: 11.3.1, 15.1.1)
- Finally 4 indicators: 11.2.1 (SE), 11.3.1 (EEA), 15.1.1 (EEA), 15.3.1 (IT)





# 3

## Data Integration Methods (Subgroup II)

### Task 2

#### 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 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 **and recommendations**

#### EXPECTED OUTPUTS

- ✓ **Management summary (brochure)**
- ✓ Other output options to be discussed...

## Scoping Paper describing the work planned



### Data Integration Methods: Scoping Paper

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

Final  
2020-06-18

Endorsed by UN-GGIM: Europe  
Plenary Meeting, June 2020

1



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## Data Integration Methods (Subgroup II)

## Task 2

## Examples compiled and reviewed, covering:

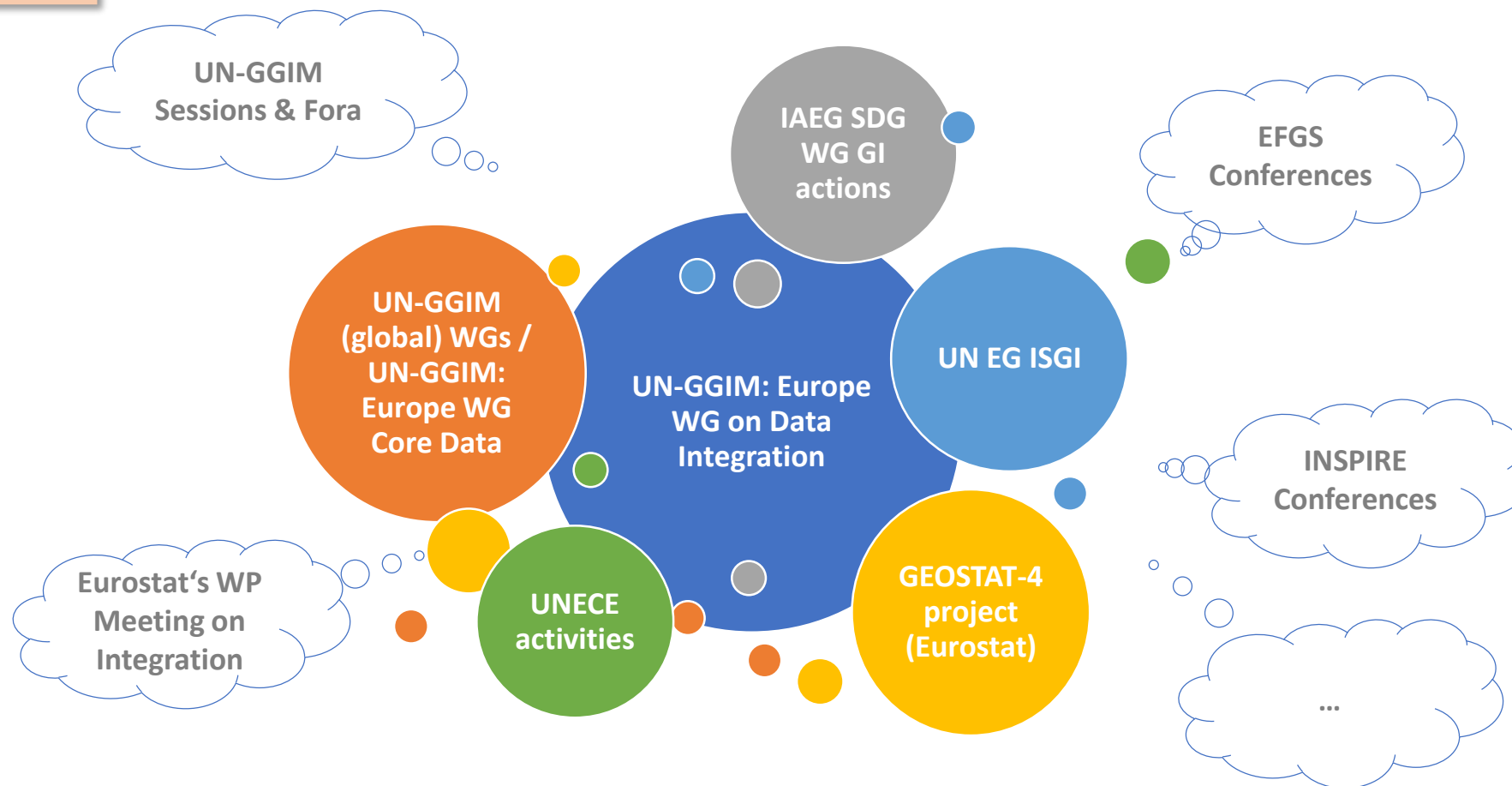
- Field of application (Project)
- Method (TJS, LOD, etc.)
- Description
- Agencies involved
- Data used
- Requirements
- Advantages and disadvantages
- Fitness to purpose
- Conditions for sustainable use (organisational)
- Categorisation (study, experimental, in use)
- Main message

[illegible]

# 3

## Working Group as “Advisory Group”

### Task 3



#### IAEG SDG WG GI

Inter- and Agency Expert Group on SDG Indicators - Working Group on Geospatial Information

#### UNECE

UN Economic Commission for Europe

#### EFGS

European Forum for Geography and Statistics

#### GEOSTAT-Projects

Projects funded by Eurostat for merging statistics and geospatial information



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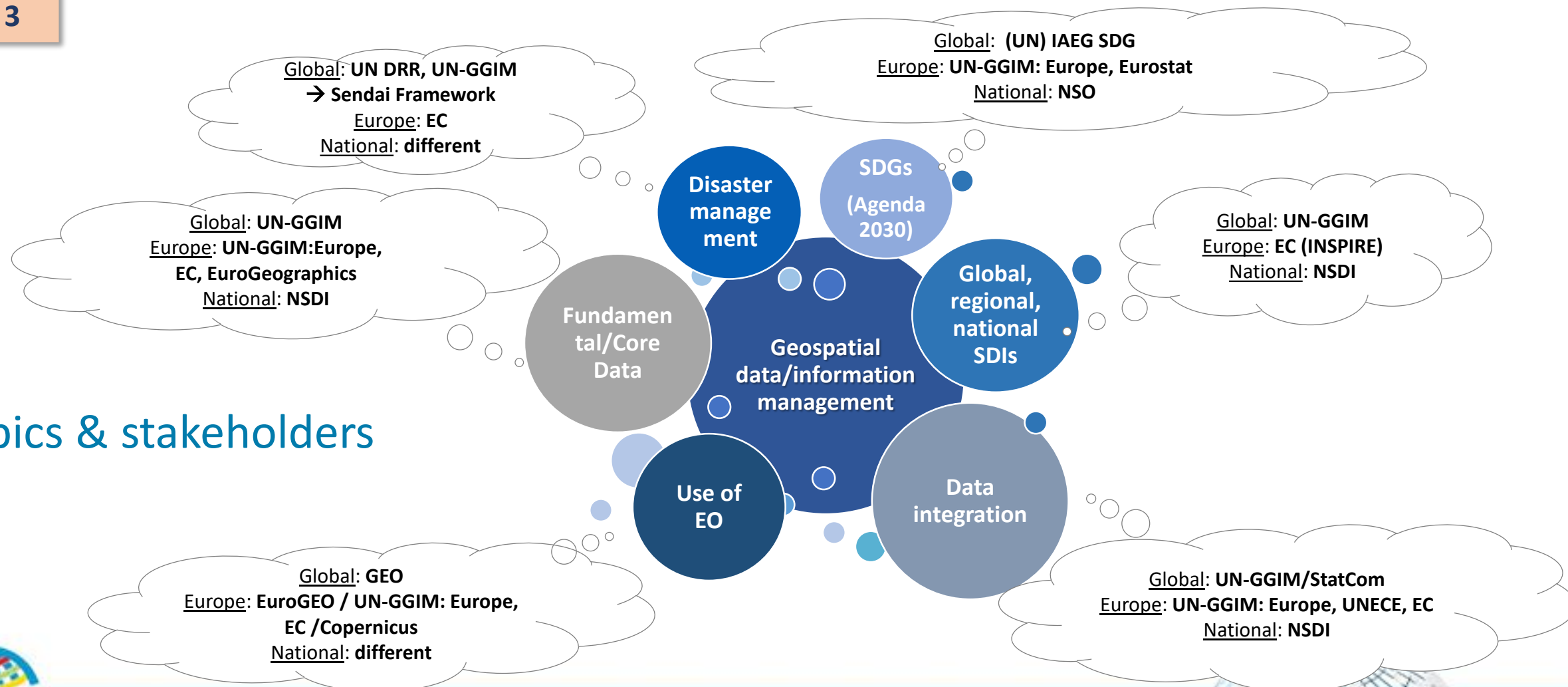


# 3

## Working Group as “Advisory Group” – a different view....

### Task 3

### Topics & stakeholders

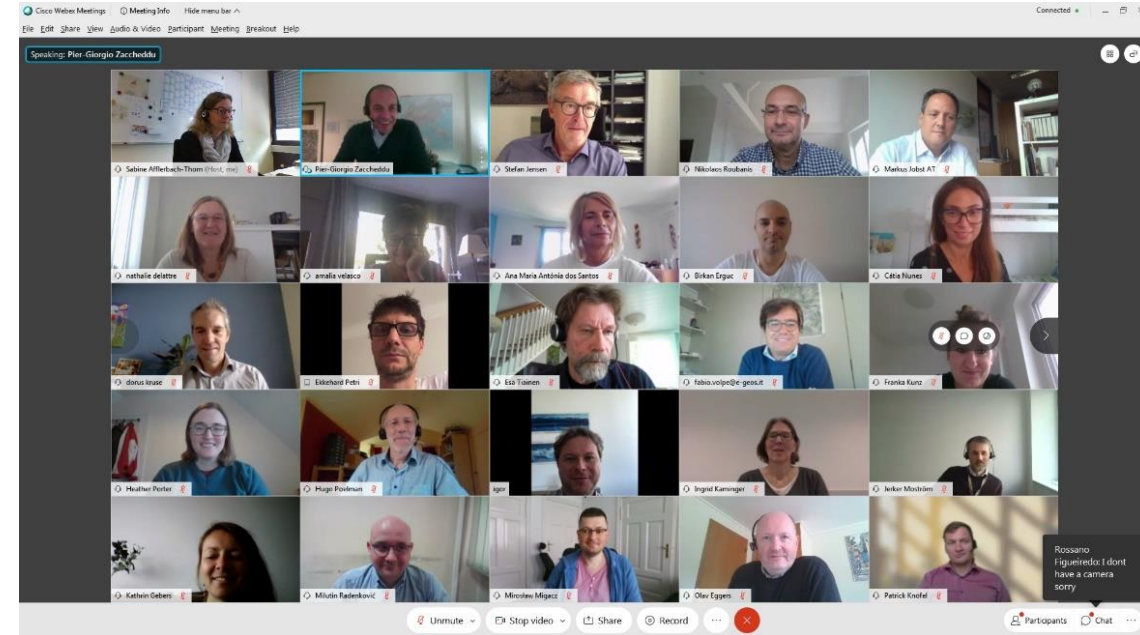


# Where are we?

Last meeting on the 29-30 September 2020, held virtually due to Corona pandemic, 40 participants

Main outcome:

- **Subgroup I:**  
Technical synthesis for each indicator and evaluate the need of an additional report, framing the work and compiling
- **Subgroup II:**  
Elaborate further examples, amongst others, on Data Cubes and Pan-European Perspective



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# Questions?

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