

# GEOSTAT 4

WORKING GROUP ON INTEGRATION OF STATISTICAL AND GEOSPATIAL INFORMATION  
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# Content of the presentation



- 1) Status of the GEOSTAT 4 project
- 2) EFGS Strategy Map – Consultation

# GEOSTAT 4 project



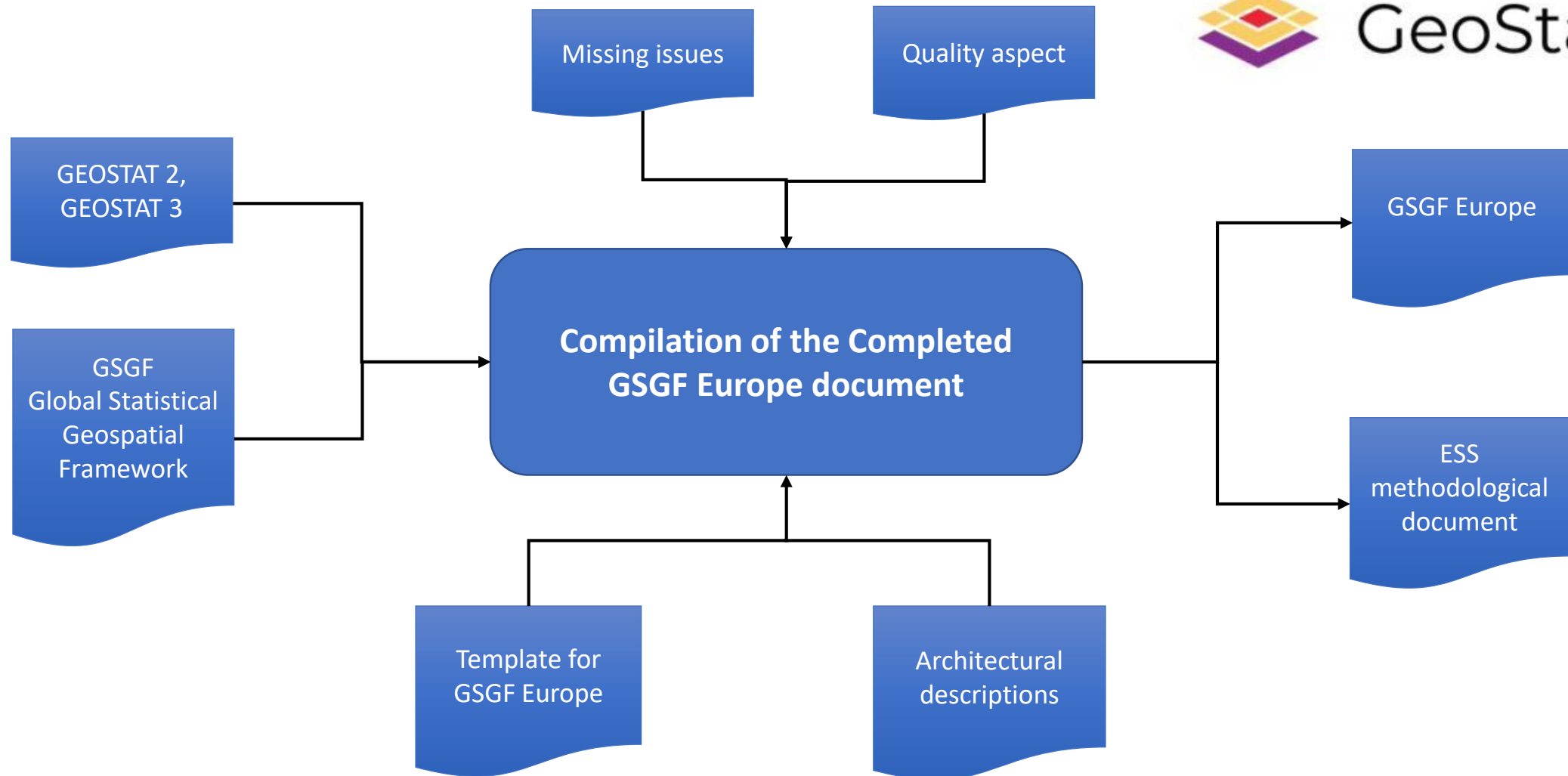
- Duration of the project: 27 months  
2/2020 to 4/2022
- Financier: Eurostat
  - Eurostat grants for 2019  
Priority area: PA8 " Area of geospatial, environmental, agricultural and other sectoral statistics"  
ESTAT-2019-PA8-E-GEOSTAT 4 (Grant Agreement number 945503). Budget 812 000 euros.
- Consortium:
  - 9 National Statistical Institutes: FI, SE, AT, PL, DE, SI, FR, NO, PT
  - 2 National Mapping Agencies: FI, NO
  - 1 other authority: Finnish Institute for Health and Welfare
  - EFGS Secretary: MD Mapping/Marina Backer Skaar
- Expected impact: Strengthening of the statistical geospatial community will foster to achieve a sustainable base for integration of statistics and geospatial information in Europe.

# The objectives of project



- Complete the GSGF Europe document
- Create a draft ESS Methodological documentation
- Gather concrete use cases
- Produce suggestions of geospatial elements to the ESS quality assurance framework
- Create statistical geospatial quality indicators and measures
- Produce training and communication materials
- Develop and maintain the EFGS Website
- Organise EFGS Conferences 2020 and 2021

# Compilation of the project main outputs

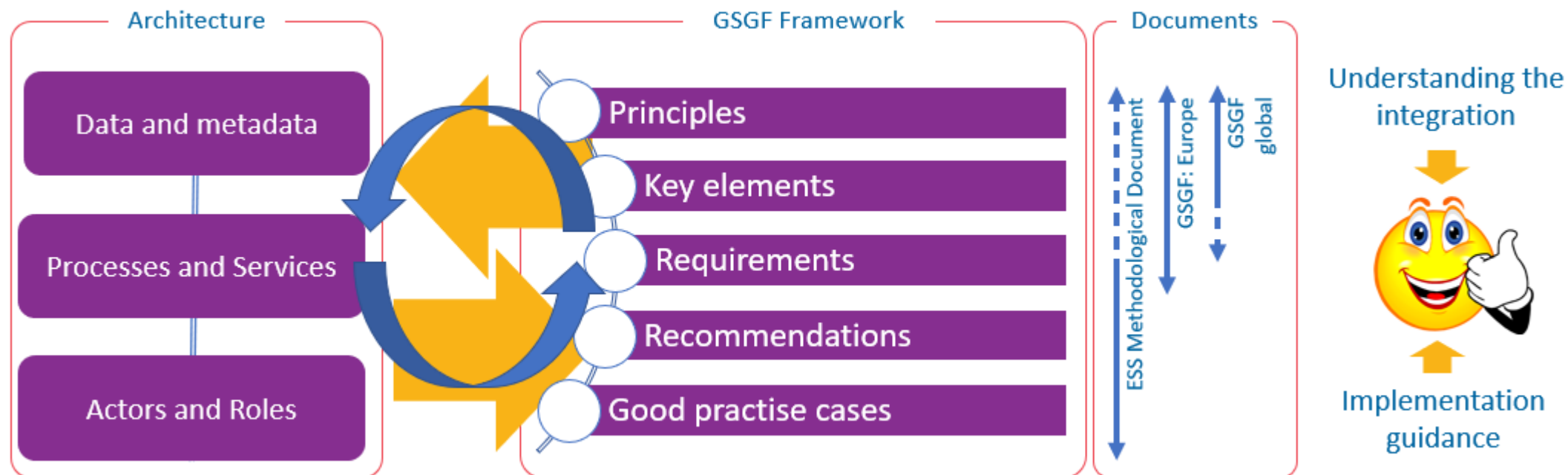


# Entity of the GSGF Europe

- GSGF Europe
- GSGF Europe Methodology Bank for the ESS



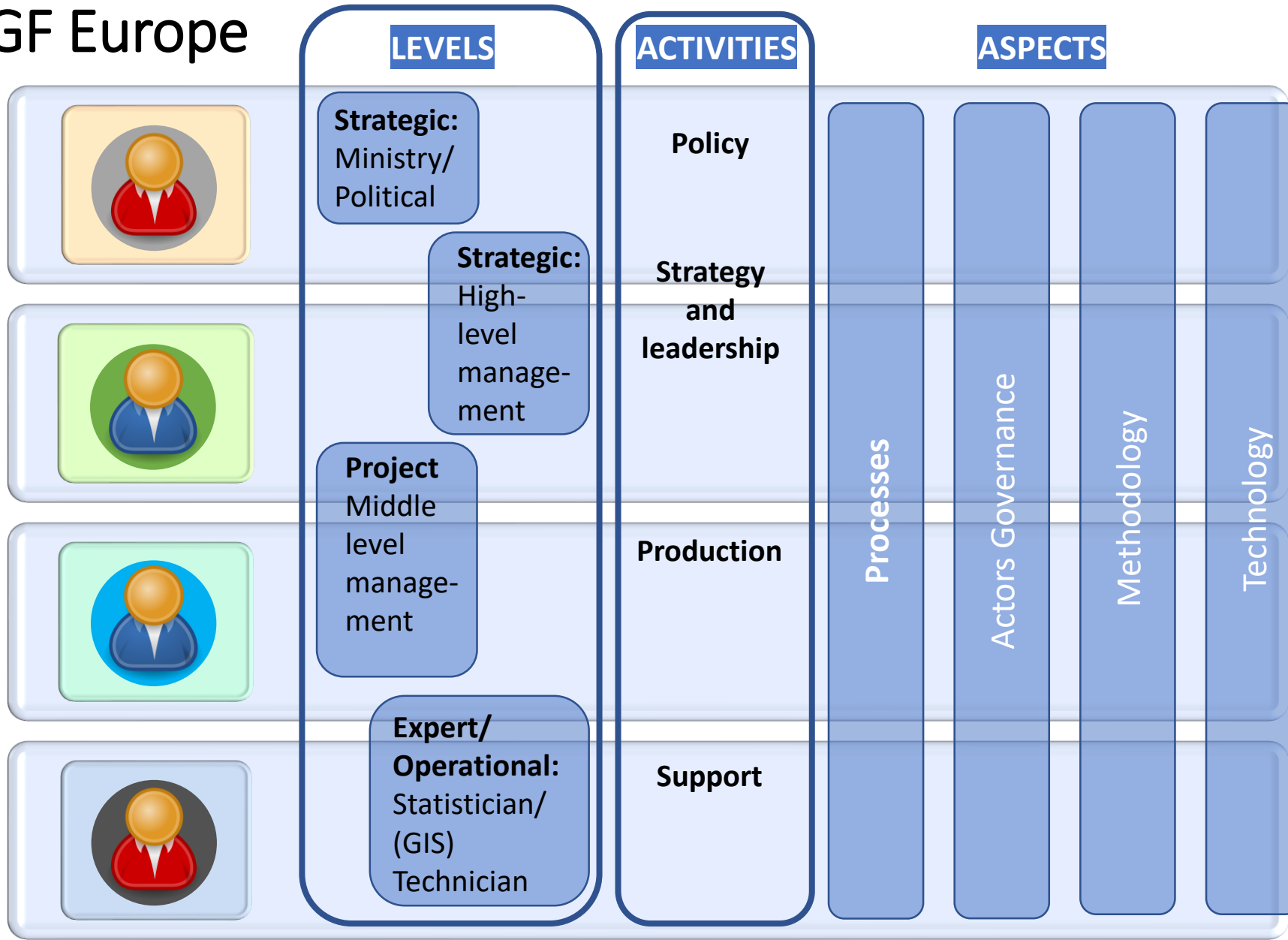
GeoStat



# Use of GSGF Europe

**GSGF Europe**

GSGF Europe Methodology Bank for the ESS



--DRAFT--

# Division of work



1. A Completed GSGF Europe
2. Supporting the Implementation of the GSGF Europe
3. Quality of geospatial information management for statistics
4. EFGS website
5. EFGS Conferences
6. Exploitation, distribution and dissemination
7. Project Management

## Work package 1: A Completed GSGF Europe

WP leader: Mervi Haakana, FI

### Objective:

Supplement and develop the GSGF Europe

Link the GSGF Europe to the European Statistical System, ESS

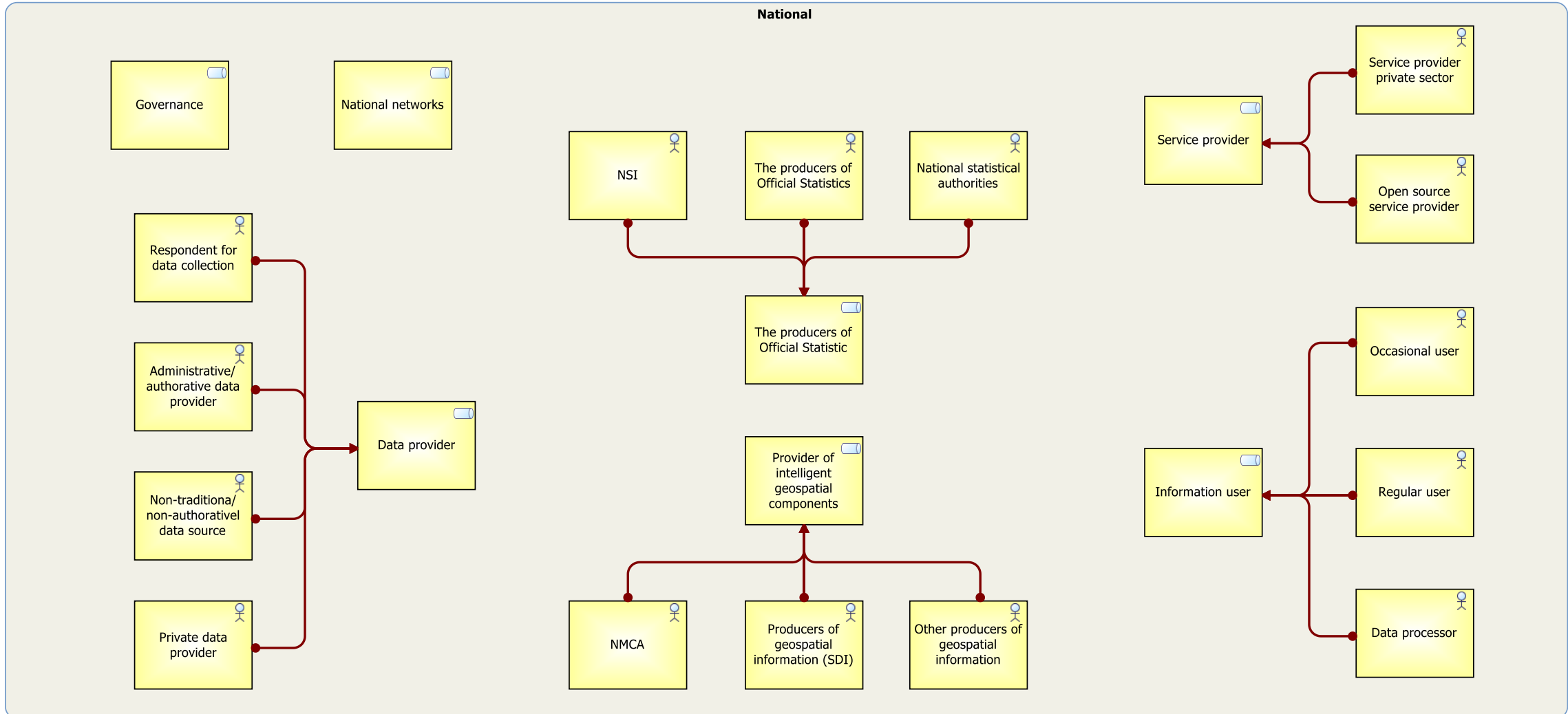
### Final output:

Enhanced GSGF Europe model

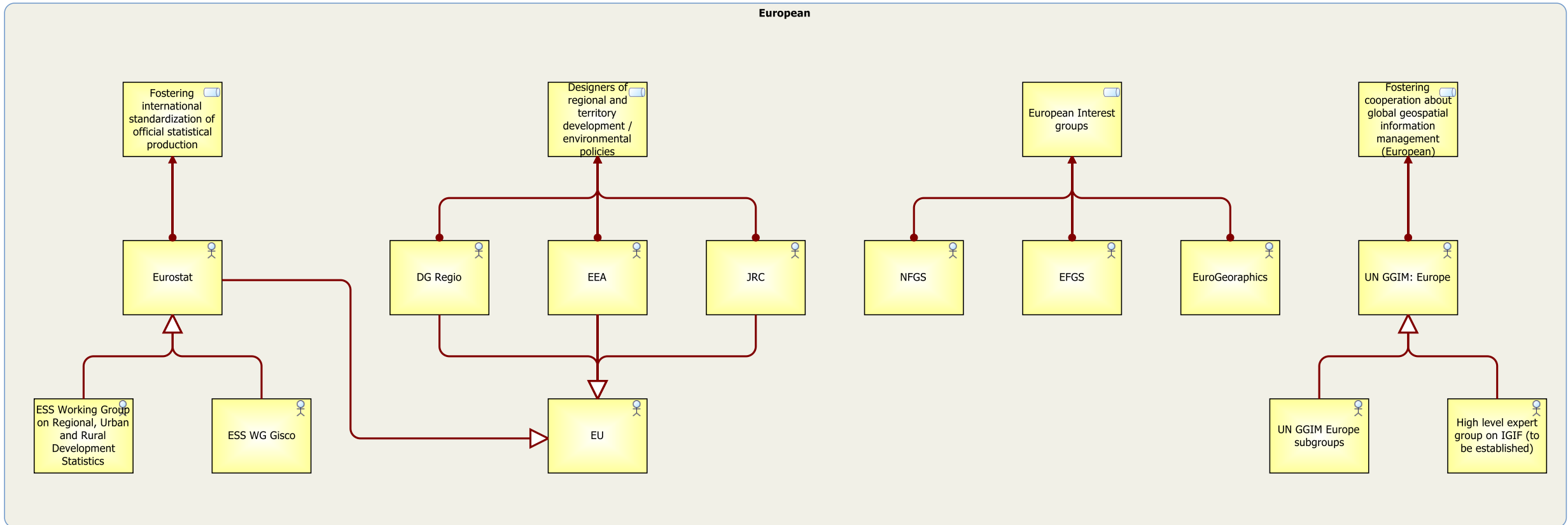
Draft for ESS methodological document

- Completed:
  - Architectural descriptions: Actors
  - Specific requirements for geospatial statistics based on non-traditional data:
    - The case of Geospatial Big Data
    - The case of Survey Data
- In progress:
  - Architectural descriptions: Processes, Services, Information
  - Review of frameworks and integration into GSGF Europe contents
  - Definition of Terms
  - Aspects still missing from the material bank:
    - Organisational, legal and other nontechnical aspects around the implementation of the GSGF
    - Quality aspects
    - Confidentiality issues
  - Build of the documents

## Generic actor map, National level



# Actor Map, European level



## Work package 2: Supporting the Implementation of the GSGF Europe

WP leader: Jerker Moström, SE

### Objective:

Support the implementation of the GSGF Europe

### Final output:

Benchmark Analysis, Guidance, Use Cases, PoCs, Business Cases

## Completed

- Benchmark study (European survey last year)

## Work in progress

- Review/reformatting of use cases and material from previous GEOSTAT projects + new good practice cases for the GSGF Europe methodology bank
- Proof-of-concept for a Table Joining Service (open for test after summer)
- Business cases for geocoded business registers, geospatial statistics as a service and emergency data
- Studies on geocoded statistical sampling frames and output geographies

## Work package 3:

### Quality of geospatial information management for statistics

WP leader: Thomas Burg, Ingrid Kaminger, AT

#### Objective:

Develop quality assessment measures, proposal to integrate into ESS QAF

#### Final output:

Propose an enhancement of the ESS QAF, Quality Indicators, Quality Check List

## Status

- Proposal of an enhancement of the ESS QAF
  - Proposal of 24 changes
    - 5 new methods and
    - 19 textual enhancements
  - Consultation of WG Quality ongoing
- Quality Indicators
  - so far 4 proposals (more to come ?)
    - Access to Geographic products
    - Coordinate Check - coordinates outside specified geographical region
    - Geocoding matching rate
    - Rate of geographic misclassifications (wrong coordinates)
- Quality Check List
  - Not started

## Work package 4:

### EFGS website

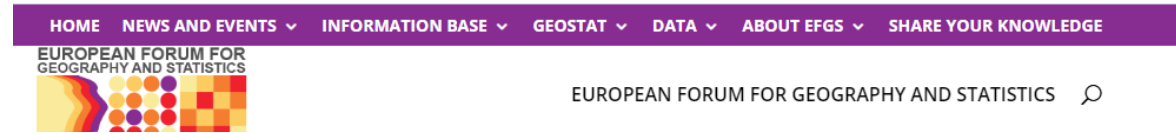
WP leader: Anna Slawinska

#### Objective:

Maintain and improve the [www.efgs.info](http://www.efgs.info) website

#### Final output:

Updated efgs.info website



- The EFGS website is maintained and continuously updated with relevant content during the project.
- New subpage was created for Geostat 4 project to publish its deliverables, materials from meetings and workshops
- Special webpage dedicated for EFGS 2020 Conference was developed and then transformed into webpage for EFGS 2020 Webinar purpose
- All the materials from EFGS 2020 (abstracts, presentations, recordings and chat transcripts) were uploaded and published on the webpage <https://www.efgs.info/efgs-2020-webinar/>
- Tests of webpage face-lifting were conducted
- Some works in cooperation with other WPs have been started on preparation of user friendly and interactive presentation of materials as well as graphics/icons for EFGS and Geostat 4 results that will be used on the web

## Work package 5:

### EFGS Conferences

WP leader: Amelia Wardzinska-Sharif (PL)  
Hanna Brenzel (DE)

#### Objective:

Organising EFGS 2020 and 2021 Conferences

#### Final output:

#### EFGS 2020 Conference

EFGS 2021 Conference



- The EFGS 2020 conference was organised on **20th to 21st October 2020** in form of **Webinar**
- The webinar was organised by **Statistics Poland** with support from the **EFGS, Eurostat** and **the Head Office of Geodesy and Cartography** in Poland.
- During the event five sections of the GSGF principles were explored:
  1. Use of fundamental geospatial infrastructure and geocoding;
  2. Geocoded unit record data in a data management environment;
  3. Common geographies for dissemination of statistics;
  4. Statistical and geospatial interoperability;
  5. Accessible and usable.
- **318 delegates** representing **58 countries**.
- Representatives of national statistical offices (about 150 persons) and national mapping and cadastral agencies (about 50)

## Work package 5:

### EFGS Conferences

WP leader: Hanna Brenzel, DE

#### Objective:

Organising EFGS 2020 and 2021 Conferences

#### Final output:

EFGS 2020 Conference

**EFGS 2021 Conference**

- The **EFGS Conference 2021** is scheduled to be held in **Wiesbaden 7th and 8th September 2021**.
- The venues are booked.
- The next steps are to discuss with the consortium the topic of the conference and to decide whether the conference should be held in persona or virtually.

## Work package 6:

### Exploitation, distribution and dissemination

WP leader: Igor Kuzma, SI

#### Objective:

Project communication and promotion,  
Strengthen the EFGS Community,  
Dissemination of deliverables

#### Final output:

Communication Plan, Development plan of  
the EFGS, GEOSTAT graphics

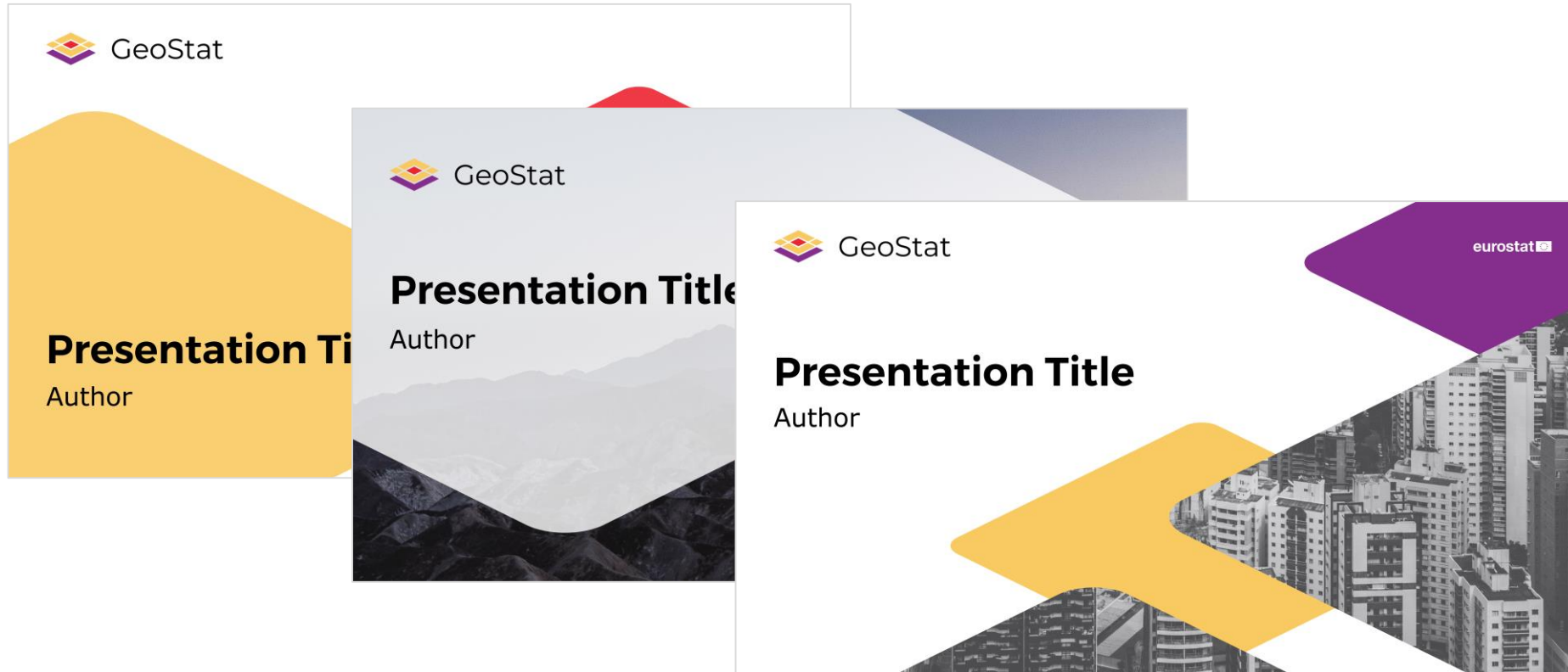
## Status

- Communication plan – completed
- EFGS Strategy Map – v06 completed
- GEOSTAT projects' graphical design – partially completed

#### Color Versions



**Work package 6:**  
Exploitation, distribution and  
dissemination  
WP leader: Igor Kuzma, SI



## Work package 7: Project Management

WP leader: Rina Tammisto, FI

### Objective:

Project management

### Final output:

Intermediary report

Final project management report

## • Status

- The project has started a little slower than planned
- Large consortium – communication challenges
- Personnel changes
- In all work packages, the work is in progress
- Cross-cutting issues
- New creative solutions

# EFGS in search of the future

- Vision
- Content, vision, responsibilities
- Organisation and management

# EFGS Strategy map for consultation

- First draft presented to and commented by:
  - GEOSTAT 4 group
  - EFGS General Assembly
  - EFGS Steering Committee
- Next round for examination

## Driver

## Objectives

## Tools

## Output/Outcome

## Impact

1

Driving force for innovative ideas for the ESS in developing integration of statistics and geospatial information

European level user needs and quality requirements are known and well understood

Constant communication between EFGS, European partners and GISCO communities – new user needs are understood and considered

Formulation and development of projects, change of ESS standards and the development of quality guidelines in accordance with the global solutions

User needs and process and product quality are adequately addressed and systematically monitored

Shared point-based foundation for integrated geospatial statistics of high quality in the ESS Europe

Projects (new variables, confidentiality, quality indicators and quality reporting dissemination- interoperability, licensing, models of co-operation)

Evolving integrated point based-foundation for geospatial statistical information

Better management of various environments on European/global level

Wide scope of the (official) geospatial statistical data integration

Project results (new variables, confidentiality, quality indicators and quality reporting dissemination- interoperability, licensing, models of co-operation)

New geospatial statistical information (to be integrated or parallelly managed SDI)

Better management of various environments on European/global level

## Driver

## Objectives

## Tools

## Output/Outcome

## Impact

2

A need for a network of experts on integration of statistics and geospatial data

High capacity on integration of statistics and geospatial information

Guidelines and concepts how to implement and integrate geospatial data

Workshops, training programmes, training materials

GIS capacity improvement at NSIs, Statistical capacity at NMAs).

Sufficient promotion of the benefits of geospatial statistical data integration

Promotion strategy

Conferences, promotion materials, EFGS website

Awareness of the importance of integrated geospatial statistical information

High level of statistical geospatial integration

QA EFGS subgroup of auditors for the ESS

QAF in statistical geospatial data integration

Sound statistical geospatial data integration

Increased value of official statistics by integrating geospatial statistics

Concepts to assess/monitor the quality of geospatial data and the quality of its integration

Statistical products accompanied by quality information related to geospatial information

Improved statistical outputs

## Driver

3

A need for a cross domain co-ordinated collaboration and organisation in dealing with statistical geospatial information

## Objectives

The EFGS is a formally managed organisation

EFGS is a voluntary basis community

Ongoing harmonisation of activities between stakeholders

## Tools

Sustainable basis for the existence and operation of the EFGS (Code of Conduct)

A dedicated cross sectional ESS geospatial expert group

Communication between EFGS SC, EFGS community, GISCO (EC)

## Output/Outcome

EFGS as a network of experts on integration of statistics and geospatial information

Recommendations, guidelines, and other documents to be discussed within the ESS governance structure

The EFGS expertise is adequately applied

## Impact

Further development of geospatial statistical information in ESS (& globally)

# EFGS Strategy map for consultation

- Some points for discussion:

- Is GEOSTAT legacy "safe" in the Strategy Map?

- Does the Strategy Map open new areas of activities/projects?

- Organisational aspects of the EFGS.

- Do you feel something is missing or should be formulated differently?

(The current version is significantly enhanced with the quality aspect. Is any other important dimension of data integration missing?)

- Do we have the capacity, energy and means to conduct all activities on a longer term basis?