



GEOSTAT – Projects on the Integration of Statistical and Geospatial Information in Europe

**UN-GGIM #8 – Side event EG - Integration of
Statistical and Geospatial Information/Open
Geospatial Consortium**

Ekkehard PETRI, Eurostat

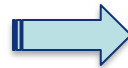
Aim of this presentation

- Quick introduction to the European Statistical System
- History and goals of GEOSTAT
- Some results and links to the Statistical Geospatial Framework
- Future Work

The European Statistical System

Institutional partnership between Eurostat and the national statistical authorities

Member states collect and process the national data



Eurostat processes the received data and disseminates European official statistics



EUROPEAN
STATISTICAL
SYSTEM



European
Commission

EUROPEAN FORUM FOR
GEOGRAPHY AND STATISTICS



The European Forum for Geography and Statistics EFGS

- Voluntary network of geospatial experts in Statistical Offices
- Reference group for methodological work on the integration of statistics and geospatial information in the EU
- Origin of GEOSTAT
- Focus on networking and information sharing in the ESS and globally
- **Annual EFGS conferences**

HOME NEWS AND EVENTS INFORMATION BASE GEOSTAT DATA ABOUT EFGS SHARE YOUR KNOWLEDGE

EUROPEAN FORUM FOR GEOGRAPHY AND STATISTICS

Why

EFGS advocates for the integration geography and statistics in order to reach

- Efficiency (production)
- Better understanding of present and future (analysis)
- Enhanced dissemination
- Improved quality
- Better understanding between statistical and geospatial community (keyword terminology)

Latest News

Lars H. Backer Prize

More information

EFGS

EUROPEAN FORUM FOR GEOGRAPHY AND STATISTICS

EFGS 2018 Conference

16-18 October 2018 Helsinki, Finland

Geospatial dimensions of quality at the Q2018 conference in Krakow

Jul 4, 2018 | 0 Comments

The Q2018 European Conference on Quality in Official Statistics took place in Krakow, Poland, the 26-29 June 2018. The conference had two special sessions on the geospatial concept of quality in official statistics. Janusz Dygacewicz from Statistics Poland and Julien...

read more

EFGS 2018 Conference Helsinki, Finland

Jul 12, 2018 | 0 Comments

The European Forum for Geography and Statistics (EFGS) is pleased to invite you to the 11th conference on the integration of geography and statistics. The motto of this year's conference is "Finding the Future together". The conference will take place at Marina...

read more

SCORUS Conference 6-8 June 2018 - Final call for Papers

May 10, 2018 | 0 Comments

GIS - SCORUS Conference 2018 "NEW SCALE - NEW NEEDS - NEW STATISTICS" is jointly organized by Statistics Poland (GUS), the

Keynote speakers confirmed for EFGS 2018

Apr 25, 2018 | 0 Comments

We are delighted to announce keynote speakers for EFGS 2018 as Toni Ahijoki, Julien Grunfelder and Ed Parsons. We look forward to welcoming our guest speakers in Helsinki. Toni Ahijoki (PhD), Professor of Regional Development and



- 11th conference of the European Forum for Geography and Statistics will be held in **Helsinki 16-18 October, 2018**
- We kindly invite you to participate
- The conference website is open www.efgs2018.fi
- This website will give you all information about the conference
- Deadline for registration and submission of abstracts is 17 August 2018

GEOSTAT work plan

- Develop a methodology for the integration of geospatial information into statistical production
- Make geospatial information management a routine task in the production of official statistics
- Design geospatial statistics products to increase the relevance of official statistics

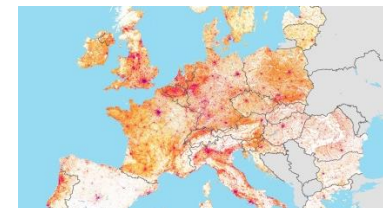
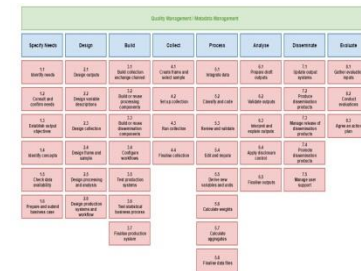
Location data

- ID = 1
- ID = 2
- ID = 3
- ID = 4
- ID = 5

Unit record data

ID	Population
1	3
2	10
3	4
4	5
5	1

Merging!

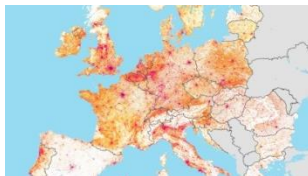




European Commission

GEOSTAT projects - evolution

2010 - 2014
GEOSTAT 1 - EU wide population grid (completed)



2015 - 2017
GEOSTAT 2 - point based geocoding infrastructure for statistics (completed)

Location data

- ID = 1
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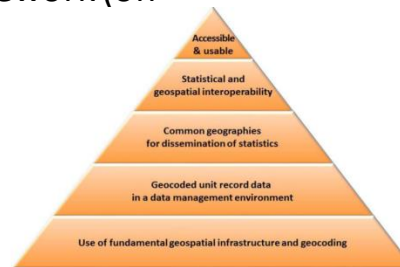
Unit record data

ID	Population
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Merging!

2017 - 2019
GEOSTAT 3 - A European version of the Statistical Geospatial Framework (on-going)

2020 - 2021
GEOSTAT 4 (planned)



GEOSTAT working method



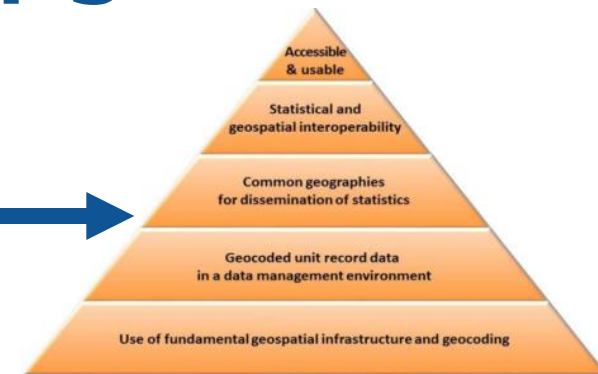
© Picture: Ferran Pestaña (Lizenz: CC BY-SA 2.0)

Scope of GEOSTAT 3

- 8 NSOs, led by Sweden
- Adapt SGF to Europe
- Harmonise geospatial information management between NSOs
- Define responsibilities of NMCAs -> UN-GGIM: Europe
- Test the implementation of SGF on statistical products
=> **Produce SDG indicators (more flexible than EU statistical products)**



EUROPEAN
STATISTICAL
SYSTEM



SDG indicators tested in GEOSTAT 3



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

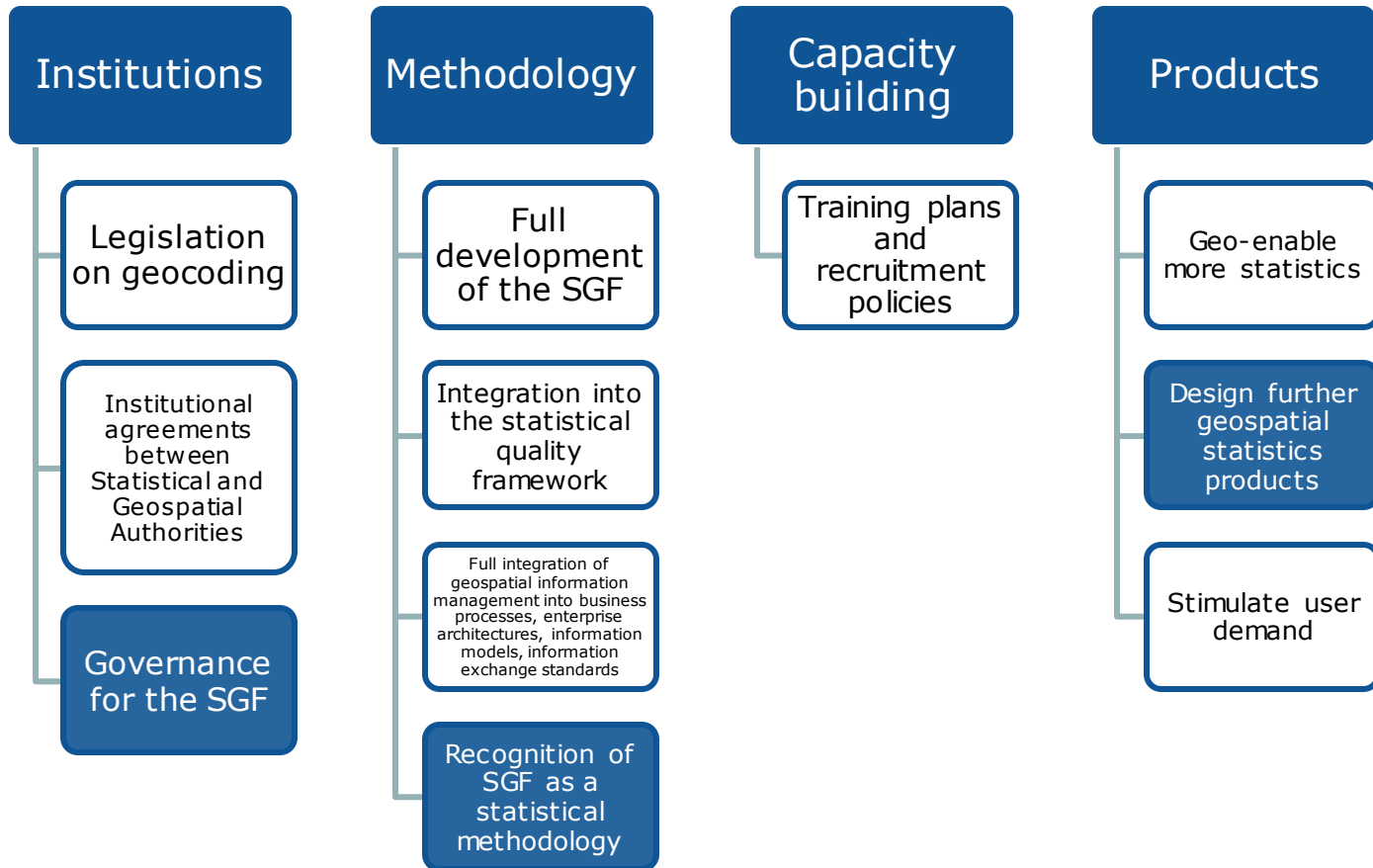


11.3.1 Ratio of land consumption rate to population growth rate



11.7.1 Average share of the built-up area of cities that is open space for public use by all, by sex, age and persons with disabilities

Still a lot to do ...



That's why Eurostat proposes GEOSTAT 4 (2020-2022)

Completed SGF for the ESS

- Fill gaps and provide detailed implementation guidance
- Draft ESS methodological document
- Prepare training material

SGF in operation in all NSIs

- Inventory on geocoding in statistical production
- Focus on surveys and business registers
- **National/EU action plans for SGF implementation/geocoding**
- Plans for further geospatial statistics

Geospatial quality assessment

- **Develop specific geospatial quality targets and indicators**
- Integrate into existing quality tools of the ESS

Summary GEOSTAT and the SGF

A Point-based Foundation for Statistics – Final Report from the GEOSTAT 2 Project

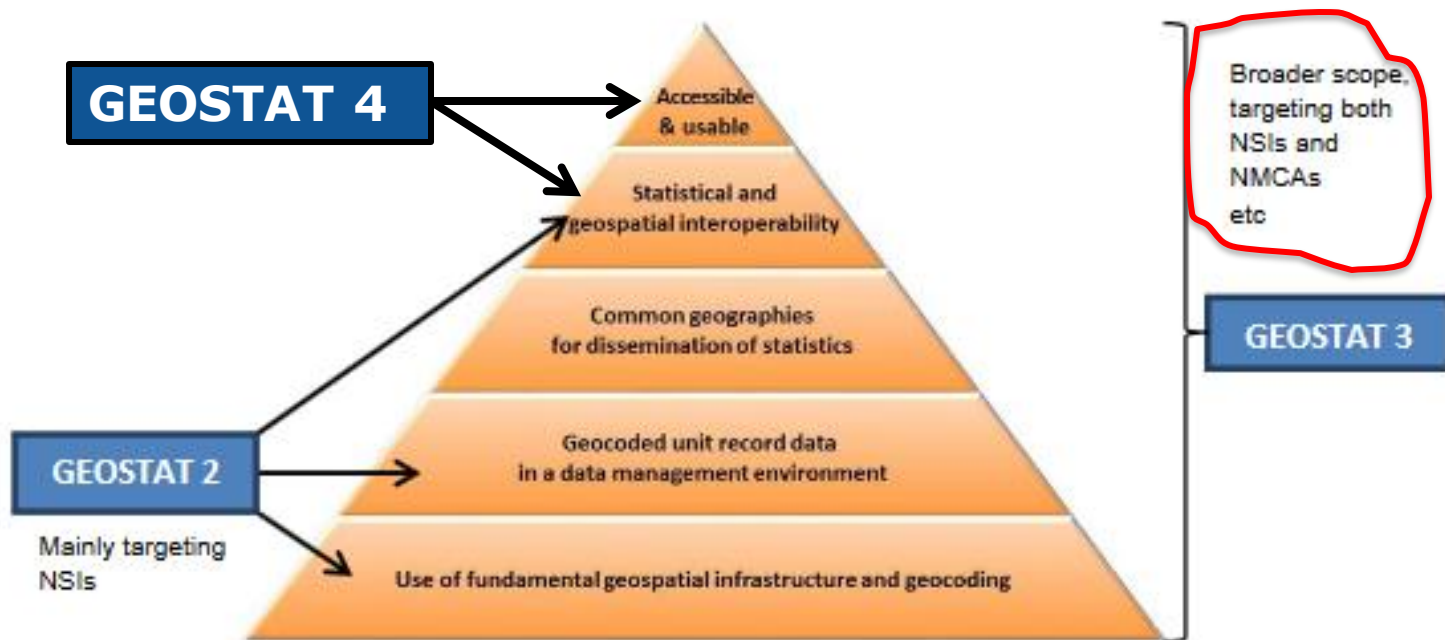


Figure 3: Illustration of the link between the GEOSTAT projects and the SGF.



European
Commission

Related effort: access for NSOs to fundamental geospatial data and services

Icons for the global fundamental geospatial data themes



Global Geodetic Reference Frame



Addresses



Buildings and Settlements



Elevation and Depth



Functional Areas



Geographical Names



Geology and Soils



Land Cover and Land Use



Land Parcels



Physical Infrastructure



Population Distribution



Orthoimagery

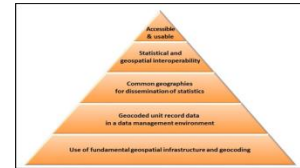


Transport Networks



Water

Discussion on SGF governance



- What will be the role of the SGF in statistical production?
- Who will be the owner/steward of the SGF?
- Implementation plan
- Role of the Regions?



Further information

- Ekkehard.PETRI@ec.europa.eu
- EFGS website www.efgs.info
- GEOSTAT 3 project
<https://www.efgs.info/geostat/geostat-3/>
- EFGS conference 2018 www.efgs2018.fi
- Eurostat geospatial statistics
<http://ec.europa.eu/eurostat/web/gisco/overview>