

The integration of statistics and geospatial information in Europe – can the EFGS make the loose ends meet?

Ekkehard Petri GISCO - Eurostat



"the past is the key to the present"













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COMMISSION DE STATISTIQUE et COMMISSION ÉCONOMIQUE POUR L'EUROPE

CONFÉRENCE DES STATISTICIENS EUROPÉENS

Cinquantième réunion plénière (Paris, 10-12 juin 2002)

RAPPORT DE LA RÉUNION DE TRAVAIL COMMUNE CEE/EUROSTAT DE SEPTEMBRE 2001 SUR LES QUESTIONS MÉTHODOLOGIQUES TOUCHANT L'INTÉGRATION DES STATISTIQUES ET DE LA GÉOGRAPHIE



Mandate for a joint NSI/NMA working group

on geographical information system for statistics

Within the European Statistical System, the objectives of the GISCO projects are:

promote geo-referencing of statistics and encourage the integration of GIS in the national statistical organisations;

promote collaboration between NSI and national mapping agencies (NMA);

promote harmonisation and co-ordination of the GI management systems used in the statistical organisations;

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ensure standardisation and harmonisation in the geographical information exchange process between Member States and Eurostat:

co-ordinate the participation of European statisticians in GI and GIS activities, promote their know-how in standardisation processes and ensure that their needs are take n into account in market developments.

As far as international co-operation is concerned, the project aims also:

to promote co-operation between NMA at European level;

to pursue the harmonisation of EU and broader international initiatives in GI;

to participate in GIS - related projects in other statistical international organisations.

Achieving these objectives would require close co-operation between NSI, NMA and Eurostat. The joint working party on "Geographical information systems for statistics", comprising NSI, NMA and Eurostat representatives is one of the ways of conducting this co-operation.

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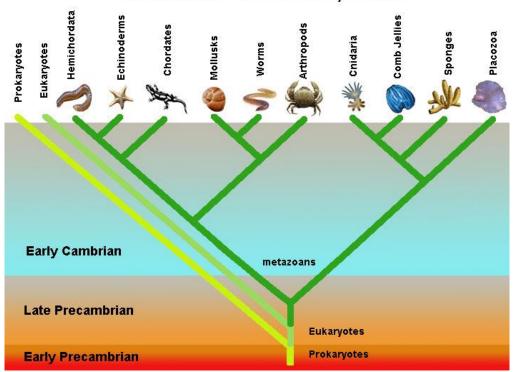
NMA and Eurostat representatives is one of the ways of conducting this co-operation.



The Cambrian explosion of GGIM

The "Cambrian Explosion"

Evidence in the fossil record shows that all major phylla were established in the transition from Late Precambrian to Early Cambrian time



©Geology Cafe



Drivers for the current (r)evolution

European Statistical System
UN-GGIM
Open Data

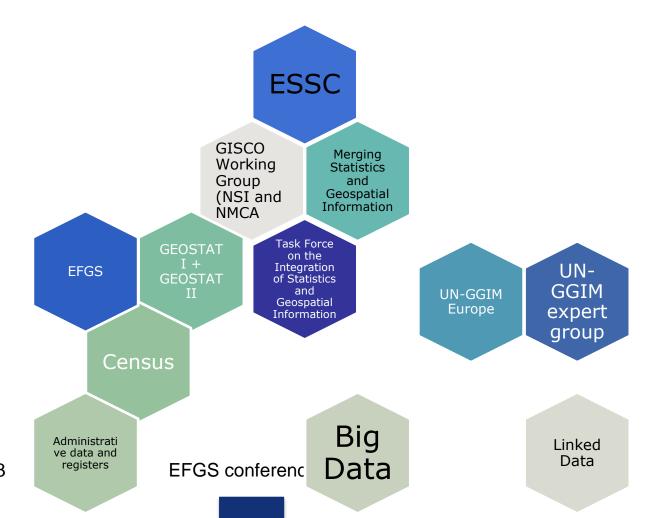
INSPIRE and other Spatial Data Infrastructures
Technology

New architecture for statistics and geospatial information in Europe





I European Statistical System

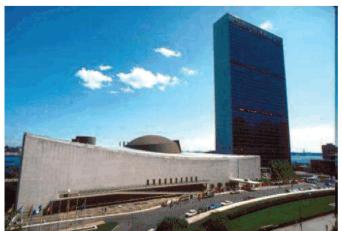




II UN-GGIM

UN-GGIM – What is it?

- The United Nations Initiative on Global Geospatial Information Management (UN-GGIM), an initiative to enhance and coordinate global geospatial information management
- Provides a formal mechanism under the UN to discuss and coordinate GGIM activities by involving Member States at the highest Government level as the key participants







"Just like statistics, every country must have authoritative, trusted, maintained, definitive mapping data"

Professor Paul Cheung, Director, United Nations Statistics and Geospatial Information Division, Geospatial World Forum, Amsterdam, May 2012







UN-GGIM Committee of Experts

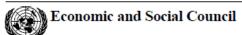




UN-GGIM Inventory of issues

United Nations

E/c.20/2012/5/Add.1



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Committee of Experts on Global Geospatial Information Management Second session New York, 13-15 August 2012 Item 5 of the provisional agenda* Inventory of issues to be addressed by the Committee

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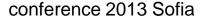
Report of the Secretary-General

Summary

The present paper contains the report that sets out the activities of a working group tasked with developing an inventory of issues for the Committee's consideration at its second session. At its first session, the Committee of Experts considered that a detailed and comprehensive description of the issues that should be addressed in the coming years was indispensable to define the scope of the Committee's work and role in the future. The report summarizes the process by which the working group was formed and the mechanism of deliberation. Drawing upon detailed submissions and broad global geospatial consultation, the report describes the inventory of issues that have been collated and consolidated within the following nine thematic groups:

- (a) Developing a national, regional and global strategic framework for geospatial information;
 - (b) Establishing institutional arrangements and legal and common frameworks;
 - (c) Building capability and capacity, especially in developing countries;
 - (d) Assuring the quality of geospatial information;
 - (e) Promoting data sharing, accessibility and dissemination;
 - (f) Embracing trends in information technology;
 - (g) Promoting geospatial advocacy and awareness;
 - Working in partnership with civil society and the private sector;
 - (i) Linking geospatial information to statistics.

(i) Linking geospatial information to statistics.





- (d) Supported holding an international conference on the topic and urged the Expert Group to look into issues such as institutional arrangements and standards that would facilitate better data integration and, in particular, the unique opportunity in time offered by the preparations of the forthcoming 2020 Round of Censuses.
- (e) Recognised the role of so-called "linked data" as an effective methodology for dynamically linking datasets and recommends the potential of this technology be considered by the Expert Group.
- (f) Encouraged national geospatial information authorities to reach out to their national statistical office counterparts to actively engage in a dialogue on better integration of statistical and geospatial information at the national level.



Demand for linking statistics to a location

Demand from politics

 Sustainable development (EU2020, Rio20+), territorial cohesion and regional development

Demand from statistics

 more efficiency in statistical production, facing competition from private data providers, adding the 'where' to the 'what' and 'when' will help us to understand the 'why'





UN-GGIM Europe

Regional committees explicitly encouraged by ECOSOC

European Committee





UN-GGIM Europe focus points

- 2) Provide an overview of National Location strategies and overall data policy frameworks (e.g. EU Public Sector Information and Open Data initiative) adopted or under development in European countries and at the EU level
- 3) Integrate the statistical component into the geospatial framework
- 4) Provide material and examples of legal and technical institutional arrangements (National data sharing frameworks, INSPIRE, SEIS)
- 5) Impact analysis of the implementation of INSPIRE, e.g. on the use of geospatial information by administrations and citizens
- 13) Agreements on the implementation of open core global reference datasets free of charge at the point of use
- 17) Protocols and policies for exchange of geospatial and statistical data
- 20) Integrate the European Statistical System in the vision for a coordinated geospatial information management at the European level





UN-GGIM Expert Group on the integration of statistics and geospatial information

Report of the Australian Bureau of Statistics on developing a statistical-geospatial framework

http://unstats.un.org/unsd/statcom/doc13/2013-2-ProgReview-E.pdf

UNECE census recommendations 2020 round of censuses (1km² as recommendation).





Policy paper

G8 Open Data Charter and Technical Annex

Published 18 June 2013

Contents

- 1. Principle 1: Open Data by Default
- 2. Principle 2: Quality and Quantity
- 3. Principle 3: Usable by All
- 4. Principle 4: Releasing Data for Improved Governance
- **5.** Principle 5: Releasing Data for Innovation
- 6. Technical annex



III Open Data

G8 initiative

Free and open access to government data

Explicit reference to geospatial information and statistics (including census information) as areas for open data

Open Data portals

<u>https://www.gov.uk/government/publications/open-data-charter/g8-open-data-charter-and-technical-annex</u>





IV EFGS

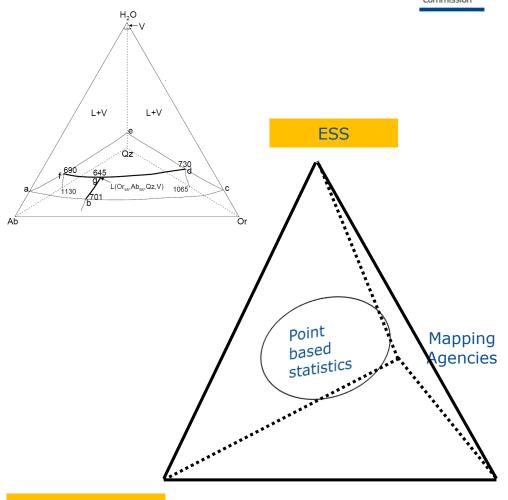
Community of users and producers of information Brings together practitioners from different disciplines, not just statisticians

Training, best practices, the GEOSTAT projects A network of experts

Most important driving force for the integration of statistics and geospatial information within the ESS









EFGS as a catalyst?

Open Data

UN-GGIM



Our integration project: 2020 Population and housing census based on point based administrative data

1871 Census of Bulwell, Nottinghamshire

British film #839,740, RG 10/3490 folio 11

