UN-GGIM7 - Side event

The 2020 Round of Population and Housing Census and the Global Statistical Geospatial Framework

Presented by

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GSGF and the 2020 Census

Pursue the development of a Global Statistical Geospatial Framework (GSGF), particularly in support of the 2020 Round of Population and Housing Census and the systematic follow-up and review of the implementation of the 2030 Agenda for Sustainable Development.

- Overview of the Global Statistical Geospatial Framework.
- Where are we? - the role of geospatial information in the 2020 Census round.
- Situations and case studies.
- Presentations and panel discussion.
International Mandate

UN Economic and Social Council (ECOSOC)

UN Statistical Commission (UNSC)
- Endorsed the Global Framework - March 2017

UN Committee of Experts on Global Geospatial Information Management (UN-GGIM)
- Adopted the Global Framework - August 2016

UN Expert Group – Integration of Statistical Geospatial Information
Global Statistical Geospatial Framework: Timeline
Global Statistical Geospatial Framework: 5 principles

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 & usable
Principle 1:
Use of fundamental geospatial infrastructure and geocoding

A common and consistent approach to establishing a location and temporal description of each unit in a dataset, using national fundamental datasets.

Objectives:

• Accurate and consistent address, property, building and location information
• Accurate and consistent geocoding results, and consistent management of geocoding issues.
Principle 2:
Geocoded unit record data in a data management environment

Storage of the unit record statistical data linked to a geocode within a data management environment will ensure flexibility over time and protect privacy and confidentiality.

Objectives:
• Effective data management and custodianship
• Consistent and interpretable geocode information
• Simplified data aggregation
Principle 3:
Common geographies for dissemination of statistics

A common set of geographies for the display, reporting and analysis of statistics to enable comparisons across datasets – statistical and geospatial.

Objective:
• Data from disparate sources can be integrated
• Aggregation, visualisation and analysis is simplified
• Conversion of data between geographies is supported
Principle 4: Statistical and geospatial interoperability

Greater interoperability to enhance the efficiency of creation, discovery, access and use of data.

Objectives;
- Greater efficiency and simplification in the creation and use of data.
- A wider range of data available for analysis and broader application of data and technologies.
**Principle 5:**

**Accessible and useable geospatially enabled statistics**

Identification and development of policies, standards and guidelines to support the release and use of geospatially enabled information.

**Objectives:**
- Data released and accessible, with privacy and confidentiality protected.
- Web services enabling machine-to-machine access and dynamic linking.
- Promote best practices.
GSGF and Census 2020

• One of the current focus points of the Expert Group is to pursue the development of a Global Statistical Geospatial Framework (GSGF), particularly in support of the 2020 Round of Population and Housing Census.
Global Statistical Geospatial Framework
- bridging integration gaps

**Statistical Community**

**Socio-Economic Datasets**
- **Core Statistical**
  - Census, Demographics, Agriculture, Building, Labour Force, etc.
- **Health**
  - Medicare, Pharmaceuticals, Workforce
- **Immigration**
- **Land**
  - Valuation and Use
- **Social Welfare**
  - Unemployment, Disability, Family Support
- **Others ...**

**Spatial Community**

**Fundamental Geospatial Datasets**
- Admin. & statistical boundaries
- Addressing, Place Names
- Transport, Water
- Land and Property
- Elevation and Depth
- Imagery
- Positioning

**GSGF bridge**
An integrative geospatial framework

Positioning geospatial information to address global challenges