Regional Committee of United Nations Global Geospatial Information Management for Africa

Workshop on Integration of Geospatial and Statistical Information

Progress Report on the Integration of Geography and Statistics in Africa





Presented by:
Ayenika Godheart
ECA (Geospatial Information Management Section)



Status on the Integration of Geospatial and Statistical information in Africa

Presentation Plan





ATTENTION

- ☐ Rationale for the Global Statistical Geospatial Framework
- ☐ Developing a National Statistical Geospatial Framework



INTEREST

- Integration of geospatial and statistical information in Africa
- Principles of the Global Statistical Geospatial Framework



DESIRE

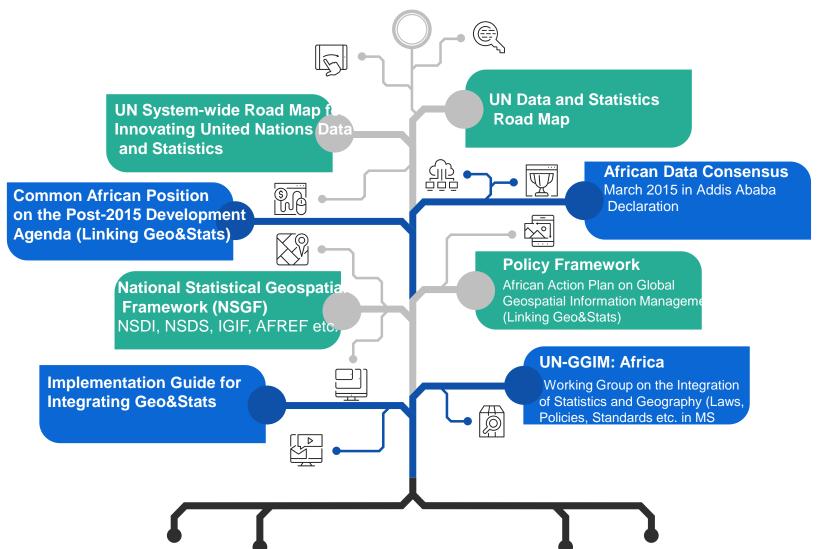
✓ Geocoding data from the 2020 census round



ACTION

✓ Enhancing the implementation of the Global Statistical Geospatial Framework at the national level

Rationale for the Global Statistical Geospatial Framework (GSGF) GSGF APPLICATION IN AFRICA



Developing a National Statistical Geospatial

Framework

MILESTONE

MILESTONE

MILESTONE 01

01

- ☐ UN-GGIM: Africa (Working Group on the Integration of Statistics and Geography)-Policies, Governance, Standards, Data, Partnerships, Legislature etc.
- □ SALB: Second Administrative Level Boundaries-Representation of Statistical Data
- ☐ Building Footprints (2020 Round of Census in Africa)-Dwelling Frames, Households, Population estimation, Spatial Analysis of Census Data, Quality Assurance, Dissemination

02

MILESTONE 02

- ❖ NSDI: National Spatial Data Infrastructure
- IGIF: Integrated Geospatial Information Framework
- ❖ AFREF: African Geodetic Reference Framework
- ❖ NSDS: National System for the Development of Statistics
- SHaSA: Strategy for the Harmonization of Statistics in Africa 2017-2026
- African Action Plan on Global Geospatial Information Management (Linking Geo&Stats)

Implementation of the Principles of the Global Statistical Geospatial Framework in various Population and Housing Censuses and Surveys

PHASES

Data Source: Rounds on Censuses

https://unstats.un.org/unsd/demograp hic-social/census/censusdates/.

(Data Source: Demographic and Health Survey (DHS) https://dhsprogram.com/Methodology/ GIS.cfm.

Implementation of GSGF principles in Africa (Case Study for PHC and Demographic and Health Surveys)

Principle 1. Use of fundamental geospatial

infrastructure and geocoding

vey
45 countries:

es)	44	sus	

5 countries

round

2020 census 45 countries 22 countries

round (50 countries

Principle 2. Geocoded unit record data in a data management environment

45 countries: Geocoding of DHS variables 5 countries

countri

45 countries 22 countries 30 countries

Principle 3. Common geographies for the dissemination of statistics

38 countries: Geocoding and spatial data

Demographic

and Health

Geocoding of DHS variables

repository of DHS variables

2 countries

3 countries 10 countries

5 countries

Survey and

Principle 4. Statistical and geospatial interoperability

30 countries: Statistical and geospatial

1 countries

5 countries

5 countries 3 countries

ensuses

Principle 5. Accessible and usable geospatially enabled statistics

30 countries: Accessible and usable geospatially enabled statistics

interoperability

1 countries

3 countries 2 countries

5 countries

Censuses and Enumeration Area Coding Scheme

A generic enumeration area coding scheme



E4 4 Φ E54 4 4 4 Φ E54 4 4 4 54 4 Φ E54 4 4 54 4 Φ province district locality enumeration area



Spatial Boundary Database



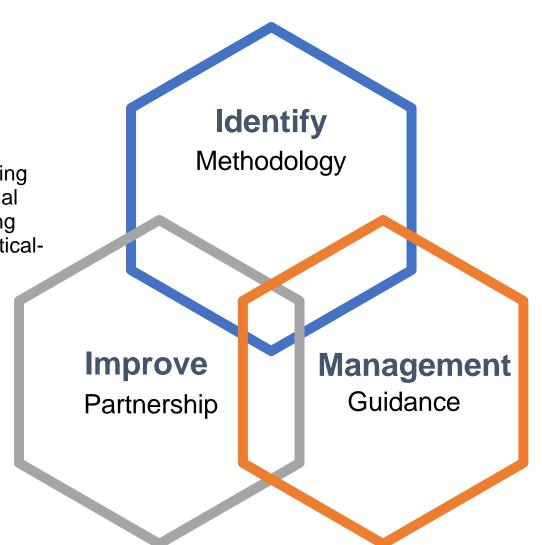
Enhancing the Implementation of the Global Statistical Geospatial Framework at the National Level



Adopt a methodology for implementing the Framework through the Regional Committee mechanism for providing support to countries working on statistical-geospatial integration in Africa



Partnership with ECA and the Regional Committee in firm agreement and with a clear mandate to execute the provisions under the Framework





The working group on the integration of geography and statistics should provide continuous guidance in the implementation of the Framework

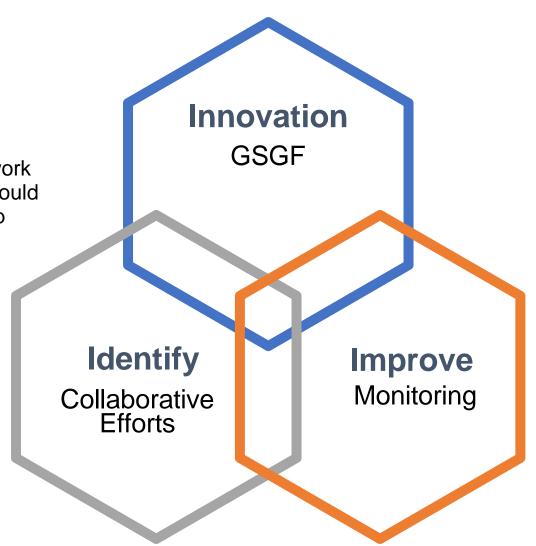
Enhancing the Implementation of the Global Statistical Geospatial Framework at the National Level



Global Statistical Geospatial Framework that has been developed for Africa should be the official authorized road map



Collaborative efforts of various stakeholders, including those in the statistical and geospatial communities, before they can be applied in a harmonious way.





The implementation of the Global Statistical Geospatial Framework must be thoroughly and continuously monitored throughout Africa.





THANKS