

Statistical Geospatial Framework - Egypt

Central Agency for Public Mobilization And Statistics



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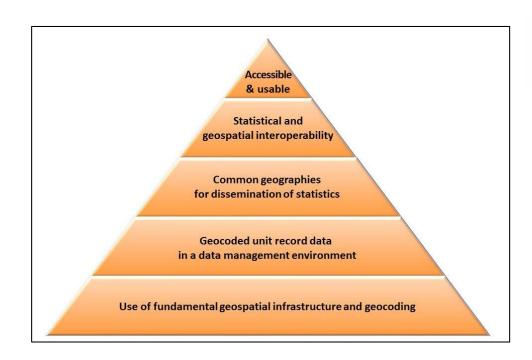
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I.Five principles of Global Statistical Geospatial Framework





Principle 1: Use of fundamental geospatial infrastructure and geocoding

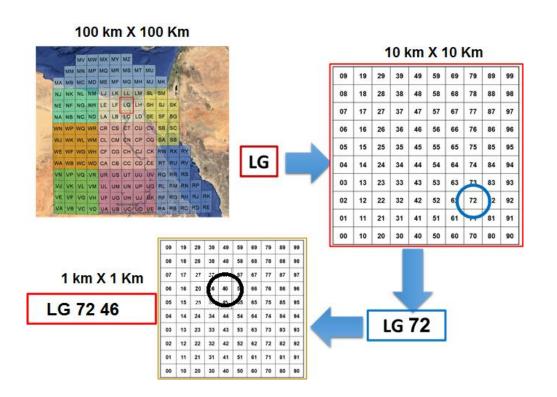
☐ Egypt is working on establishing a National Spatial Data Infrastructure using a National Grid system with coordinate system MTM-WGS84 (Modified Transverse Mercator) which will be used to generate a unique numbering and geocoding system for each unit in a dataset, such as a building, household or business.

How this geocoding system is generated?

- ☐ First a grid based system was generated to cover the Egyptian land in different scale levels;
- □ First level is a grid each cell is 100 km * 100 km and by taking any cell of the m for example LG cell it is divided into cells each one of them is 10 km * 10 km and by taking any cell of them for example 72 this cell name is LG 72 and this cell it is divided into cells each one of them is 1km * 1 km and by taking any cell of them for example 46 this cell name is LG 72 46 and So on till

reaching 1 m * 1m

Grid Based System



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

- ☐ All the geographical spatial data and statistical data in Egypt are identified with the smallest geographic boundary (Shyakha (Urban) Village (Rural).
- Egypt is currently working now on putting a mechanism in place to facilitate the e integration and management of the geocode within a dataset including spatial I number identifier to geocode linking mechanisms.
- ☐ This method more flexible and useful to join the detailed statistical building, household and business data.

Principle 3: Common geographies for dissemination of statistics

One of the most important roles of the National Spatial Data Infrastructure is to unify the administrative geographic boundaries between all the Egyptian agencies. It is also used as a mechanism for data dissemination using the National grid mer ged with the geographic boundaries.

Principle 4: Statistical and geospatial interoperability

- ☐ Egypt applies standards for statistical and geospatial data, and agrees with Australia on the need to seek international agreement.
- □ One of the main target of Egypt NSDI is to create a standard unified base map for Egypt to be used by all the governmental authorities.
- Now we are working on building this base map using a recent pho to with a high resolution and applying the Spatial ID which produce d by CAPMAS to integrate with the census data

Principle 5: Accessible and usable geospatially enabled statistics

■ Now CAPMAS starts the dissemination stage using the Egyptian Geoportal a nd Egyptian development atlas by disseminating the results on the Egyptian Grid system in different results (100KM*100Km, 10KM*10Km, 1KM*1Km, and 200m*200m) Which guarantee high accuracy and precision for the data analysis

II.National Spatial ID



- Is a unique number for each unit within the building.
- Is produced automatically from digital maps.
- Giving a fixed number for the unit linked to its geographical location which does not change with the administrative boundaries change.
- To organize, evaluate and follow-up of local government services such as electricity, natural gas, sewage



III. NSDI challenges:



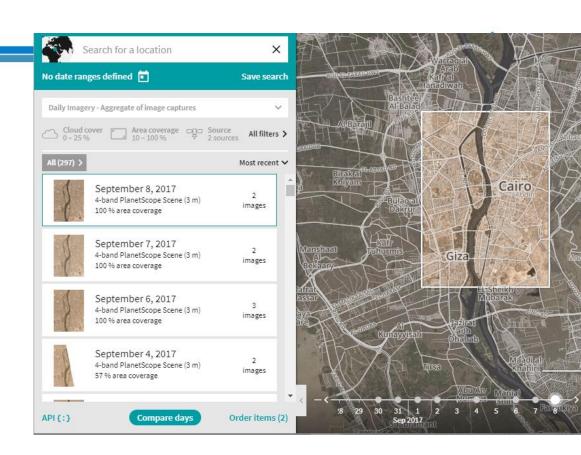
□ NATIONAL SPATIAL DATA INFRASTRUCTURE Challenges

- Unified Base-map
- Geocoding system
- > Integration between Public sector organizations

IV.Next Step

Frequent update for the Base Map using

Aerial photos by MESA (Military Egyptian Survey Authority)



Thanks

we have pleasure to receive your feedback, comments and questions

at the following email; pres_capmas@capmas.gov.eg

