

**Central Agency for Public Mobilization And Statistics** 

### **Egyptian E-Census 2017**

An Integration between Spatial and Statistical information



## **Agenda**

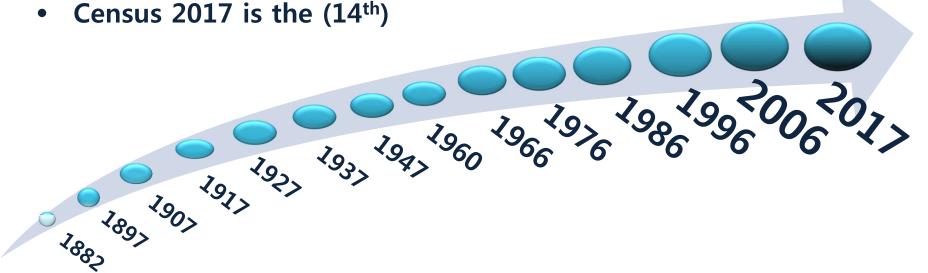


- I Egypt and census
  - II Census 2017
  - III National Spatial ID
- IV Global Statistical Geospatial Framework

## **Egypt and Census**

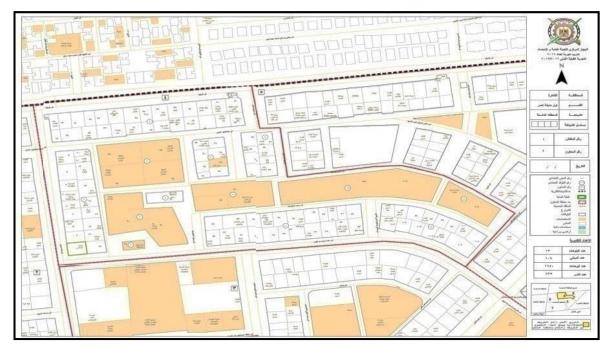


- The first documented census was in 1882
- **Census 2017 is the (14th)**



### New approaches in Census 2017

Census Mapping (digital Maps Scale 1:500)



### New approaches in Census 2017

Census Mapping (digital Maps Scale 1:500)

Covers 100 % of Egyptian Land

	Census 2006	Census 2017
Urban	70 %	100 %
Rural	0 %	100 %



#### **Role of Census Mapping**



2-During Enumeration Stage



| Column | C

3- Results Dissemination Stage



#### **Census Mapping**

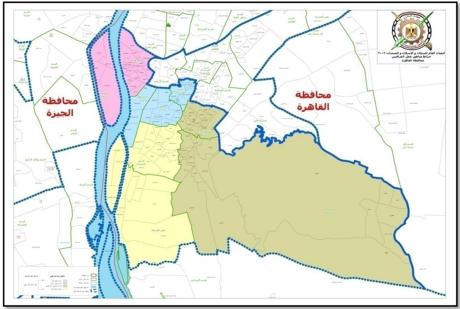
The main advantages of using census mapping are:

- Ensuring Maps consistency and facilitating census operations (pre-enumeration phase).
- Figure out the labour force required during census (pre-enumeration phase).
- Supporting data collection stage in order to eliminate overlapping or omission of enumeration areas and also can help to monitor census activities (during-enumeration).
- Maps make it easier to present, analysis and disseminate census result (post-enumeration) by using spatial analysis techniques for producing statistical thematic maps.

### Census 2017

#### 1- Preparations (Pre-Enumeration):

- Updating the administrative boundaries.
- ii. Updating the base maps using new satellite images.
- iii. Updating the base maps using field survey.





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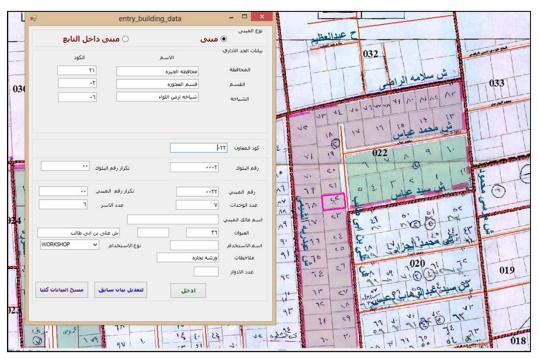
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#### 2- During Enumeration:



- Accuracy
- GPS
- Spatial and tabular Update
- Automatic Synchronization



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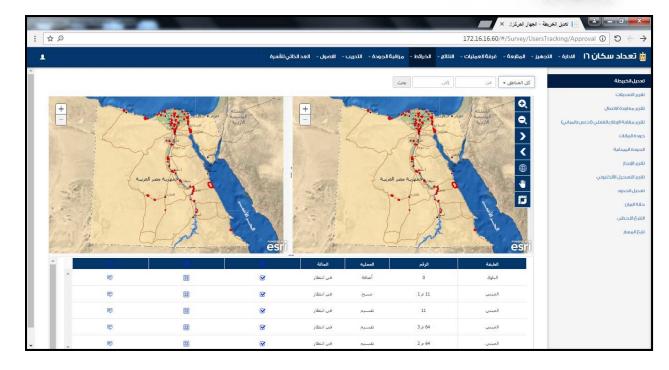
#### 2- During Enumeration:



#### I. Full Reporting

#### II. Management system

- o Central Management
- o Updates Alerts
- o Tracking
- o Routing



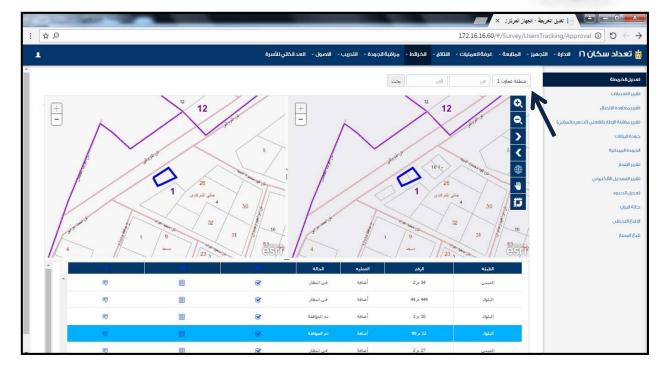
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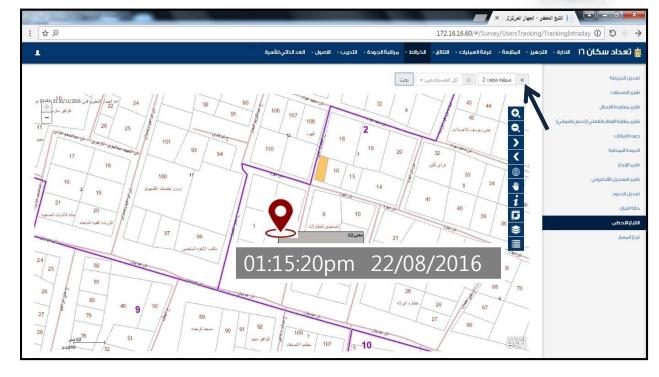
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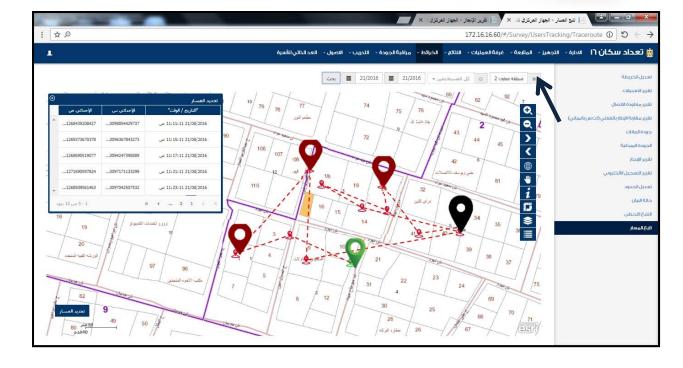
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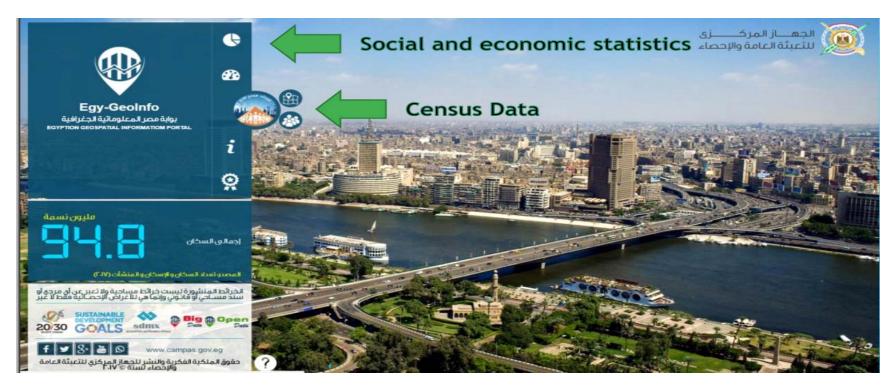
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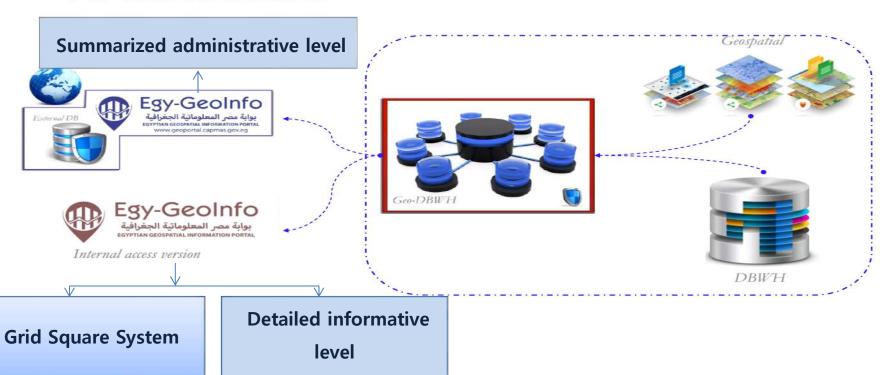
#### **3-Census Dissemination**



http://geoportal.capmas.gov.eg/

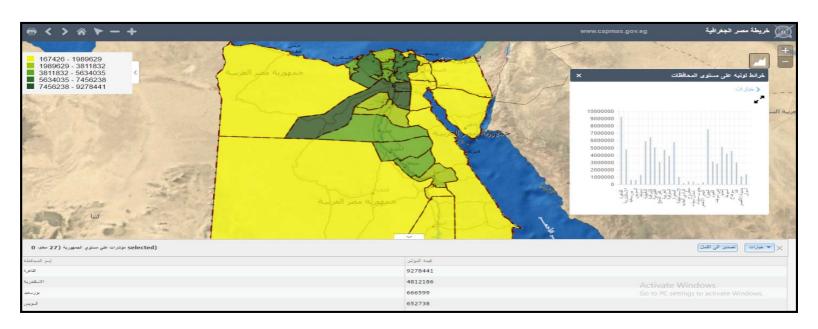
#### **3-Census Dissemination**

#### **Architecture**



#### **3-Census Dissemination**

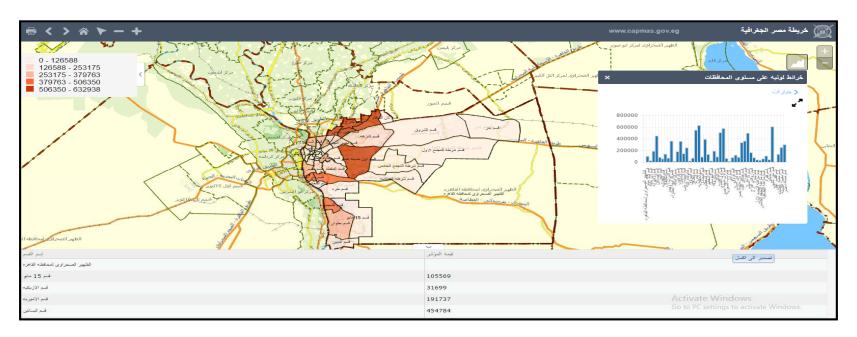
#### 1-Summarized administrative level



**Governorates Level** 

#### **3-Census Dissemination**

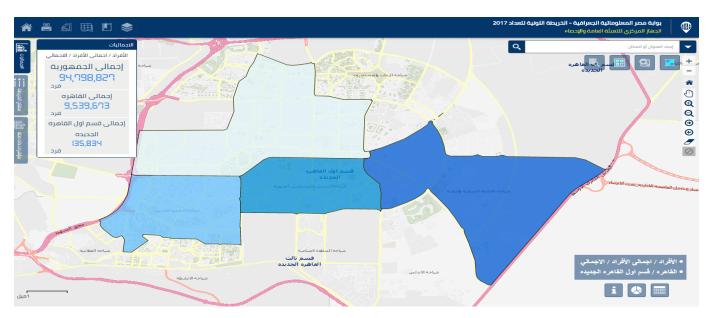
#### 1-Summarized administrative level



Ksm/Mrkz level

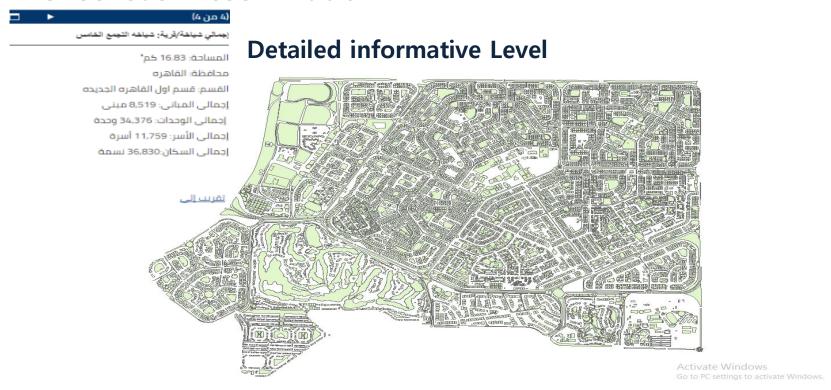
#### **3-Census Dissemination**

#### 1-Summarized administrative level



Shiakha/Village level

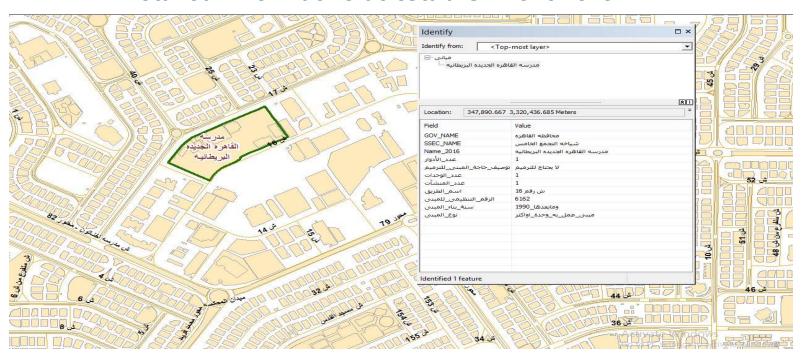
#### **3-Census Dissemination**



**Shiakha Eltagmoe Elkhames** 

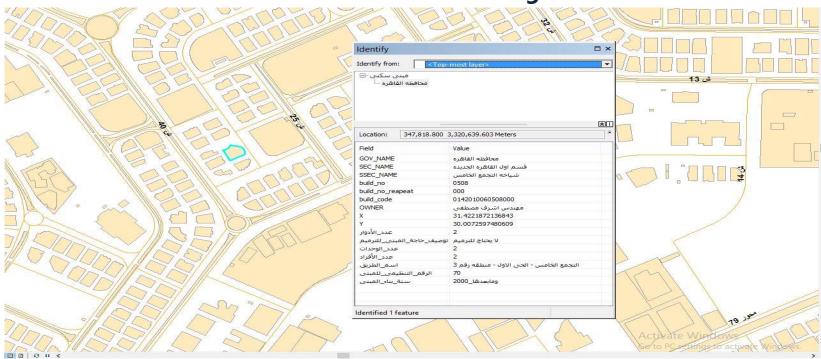
#### **3-Census Dissemination**

#### **Detailed informative at establishment Level**



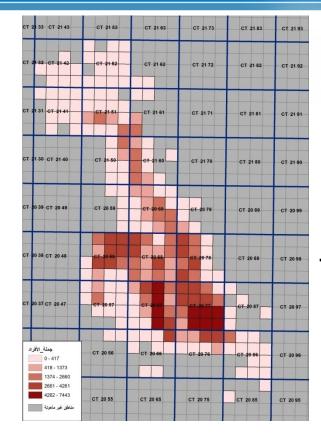
#### **3-Census Dissemination**

**Detailed informative at building Level** 



#### **3-Census Dissemination**

**C- Grid Square System** 



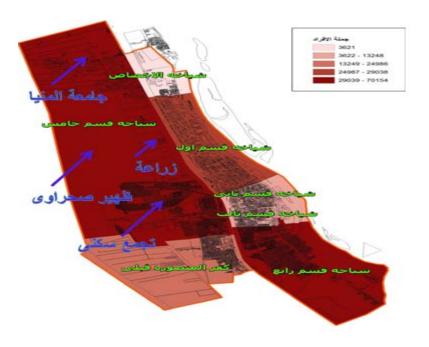
Grid square 1 km \* 1 km

CT 21 61

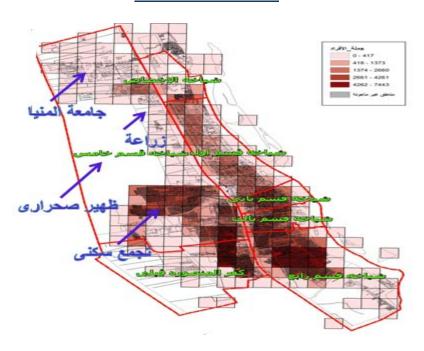
Total population Grid Square 250 m \* 250 m

**Menia City** 

#### Total of persons at shiakha level



# Total of persons at grid square 250\* 250 Km2 level





- Egypt is working on establishing a NSDI
- Obstacles:
  - Unified Base-map
  - Geocoding system
  - Administrative Boundaries



- 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

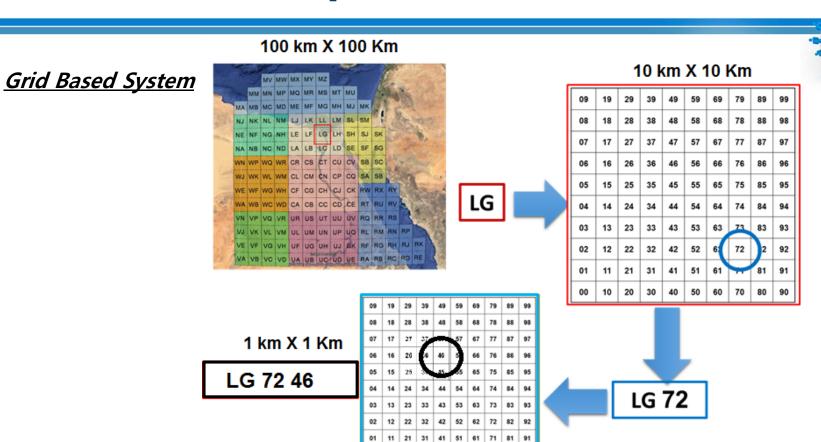




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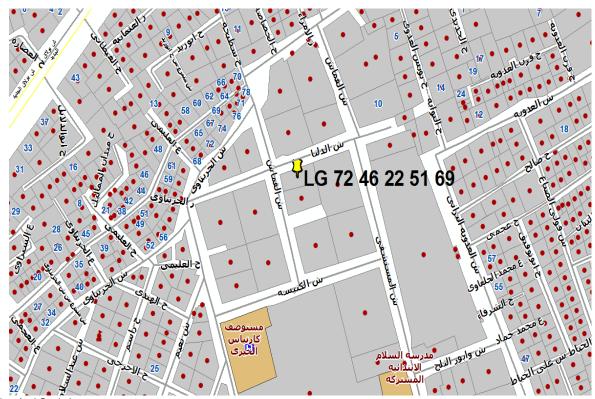


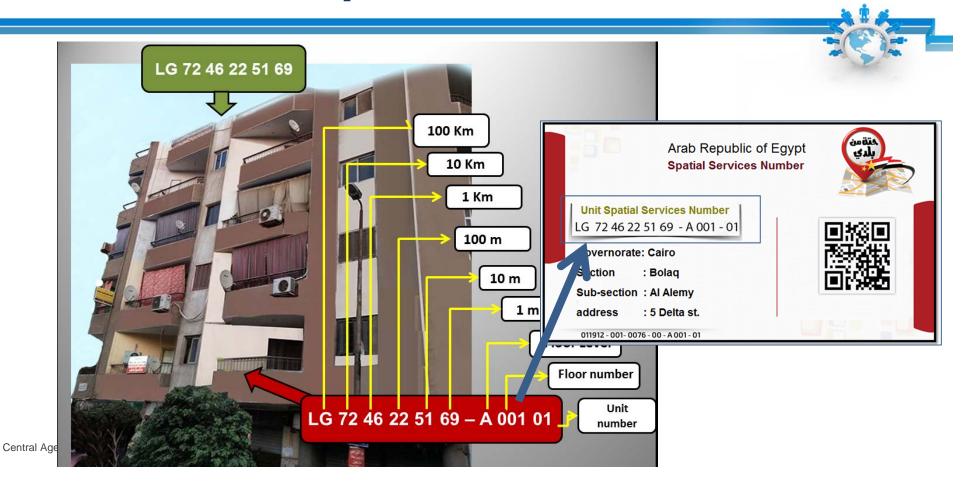
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10 20 30 40 50 60 70 80







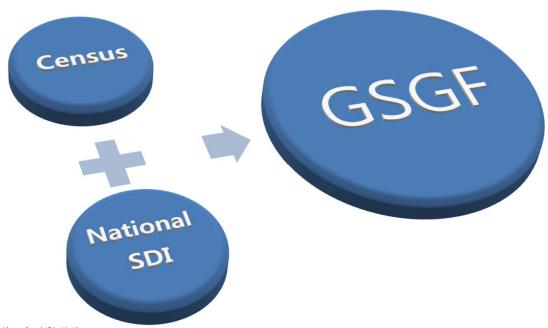
Creating new Unique BaseMap using Arial photos by MESA (Military Egyptian Survey Authority) Integrated with Census Data by CAPMAS



#### **Alexandria**

### III. Global Statistical Geospatial Framework





### III. Global Statistical Geospatial Framework



# Thanks

www.capmas.gov.eg

