



SPEED SESSION: Changing Landscape

June 1st, 2016

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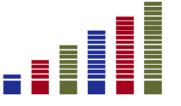
#### PRESENTATION OUTLINE

I- ALGERIAN STATISTICAL SYSTEM: HISTORY

II- CENSUS ALGERIA 2018: USE OF ICT

**III- CENSUS ALGERIA 2018: QUALITY ASSESSMENT** 

**CONCLUSION** 





#### I- ALGERIAN STATISTICAL SYSTEM

1995

HISTORY
Creation of a Planning Institution with a Statistics Department.
September 1962 Establishment of COCOES: coordination, control and statistical confidentiality.
Creation of the National Committee in charge of First Population Census.
1971 Creation of the Commission for Census and Survey Statistics (CNRES).
May 1971 Decree on Regulations, Coordination and Statistical obligations.
Creation of The Office for National Statistics ( ONS).
1982 Dissolution of CNRES and transfer of its structures, resources and activities to ONS

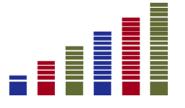
1994 Algerian Statistical Law (Legislative decree N°94-01, January 15th, 1994).

ONS statutes reorganization (Executive decree N°95-159, June 3rd, 1995)

#### II- CENSUS ALGERIA 2018: USE of ICT

#### **√** For RGPH 2018:

- 50,000 agents will be recruited and trained as enumerators;
- 13,000 agents will be recruited and trained as controllers;
- The municipal delegates .





#### II- CENSUS ALGERIA 2018: USE of ICT (2)

#### ✓ The enumerator:

Each enumerator will be equipped with a tablet for data entry and a paper district notebook that is provided by the municipal delegate.





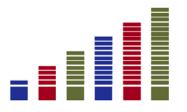


#### II- CENSUS ALGERIA 2018: USE of ICT (3)

#### **✓** The controller:

Each controller is also equipped with a Notebook tablet (for an overall vision of the questionnaire) to:

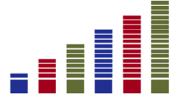
- verify the quality of work of the five enumerators,
   under his supervision,
- have a status of the collection in the field and daily statistics on households surveyed and enumerator performance.



#### II- CENSUS ALGERIA 2018: USE of ICT (4)

#### **✓** Authentication of enumerators and controllers:

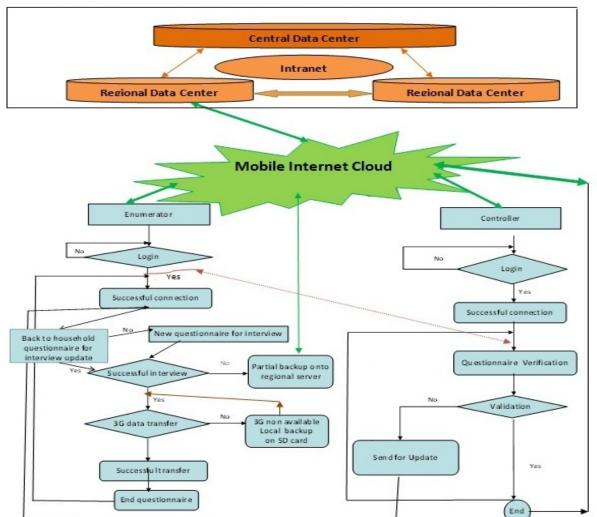
- Login lists (username and password) will be defined following the use of mobile chips' PINs affected by the mobile operator.
- The login could be defined as the concatenation of the wilaya, municipality and district codes (given at the conclusion of cartographic updates).

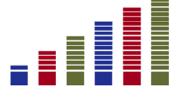




#### II- CENSUS ALGERIA 2018: USE of ICT (5)

#### Flow of Information Chart





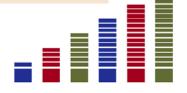
#### **III- CENSUS ALGERIA 2018: QUALITY ASSESSMENT (1)**

The mark, MImark, is a value in the range  $[A_{inf}; A_{sup}]$ , where:

 $A_{inf} < A_{sup}$ ;  $A_{inf}$ ,  $A_{sup} \in IN$ ; for this case we have  $A_{inf} = 0$ ,  $A_{sup} = 10$ .

The mode of interaction indicator, MII, is determined as follows:

$$MII = \frac{MImark}{10}.$$
 (1)



#### **III- CENSUS ALGERIA 2018: QUALITY ASSESSMENT (2)**

The error management indicator (EMI) is calculated using the following relation:

$$EMI = \frac{NT}{Ntotal},$$
 (2)

where NT is the number of successful instructions

and

 $N_{total}$  is the number of total instructions.

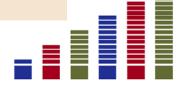


#### III- CENSUS ALGERIA 2018: QUALITY ASSESSMENT (3)

The data security indicator (DSI) is given by:

$$DSI = 1 - \frac{TNEU}{UT}, \qquad (3)$$

where TNEU is the total number of events that are unpredictable and uncontrolled and UT is the unit of time.



#### III- CENSUS ALGERIA 2018: QUALITY ASSESSMENT (4)

We consider the following 2018 Census specific total quality management indicator (TQMI):

$$TQMI = TQI*MII*EMI*DSI,$$
 (4)

where TQI = (successful transfers per UT)/(total transfers per UT), transfers expressed in Ko/s, represents the transfer quality indicator.

Since TQMI, clearly, belongs to the interval [0; 1], we will be able to assess the quality of our mobile application by the closeness of its TQMI to 1.





#### **CONCLUSION**

In order to test and validate these indicators, the following activities will be conducted:

development of the census mobile application;

consultation with specialists in order to determine the different values;

application of these indicators to the developed mobile application.





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