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E-Census 2020

0% field visit

100% Administrative data sources

100% Population

100% Housing

100% Establishment
Legal framework
Legal framework of the census

Royal Decree
No. 15/2015

Provide an updated and geospatial economic and social information through an electronic data system
The regulatory framework for the census

- **The Supreme National Committee**
  - Chairman of the Committee: Interior Minister
  - The Committee members: All related Ministers of agency

- **Technical Committee**
  - Chairman of the Committee: Chief Executive of the National Center for Statistics and Information
  - The Committee members: All Data Source agency

- **Media Committee**
  - Chairman of the Committee: Undersecretary of ministry of information
  - The Committee members: All related agency Minister

- **Executive Management**
  - Director General of e-census
  - Project Management office: Experts Data and Statistical Information system Media and identity
  - Specialized working team: For each data base
Objectives
Objectives

The E-Census 2020 aims to disseminate statistics and indicators by the end of 2020, thereby, providing decision makers with timely and accurate data. This data will include all information related to population, housings and establishments. This objective will be achieved by implementing the following:

- High Quality national database
- Integrated & electronically linked data registers
The Main Phases
(2017-2018):

**Studying the entities' data systems and how to collect and update data:**
Studying the structure of databases at the entity level, the classifications and identifiers used, and how to collect and update data.

(2017-2019):

**Studying Data readiness:**
Studying the quality of administrative registers within census labs and submit proposals to correct identifiers, and recommendations to improve data quality.

2017-2019

**Preparing methodologies for create statistical databases:**
Defining a statistical methodology for create the most important statistical databases based on administrative registers (residence address, educational & employment characteristics, enterprises and establishments, buildings and units).
(2018-2019):

**Determining system inputs and outputs and cross tables between classifications:**
Preparation of the entities' data structure, variables, and classifications, preparing cross tables between administrative classifications and statistical classifications, and preparing the most important system outputs: a list of tables, dashboards, and data sets.

(2018-2020):

**Building the system:**
Preparation of an information system that reflects data obtained from administrative sources (via links or files) and performs a set of transfers (ETLs) to link data and build statistical databases.

(2020):

**Linking with the entities:**
Electronic linking with the entities to ensure data collection in a timely manner, meaning that whenever a variable is updated from among the entity's data basket, the update is sent instantly to the system through the link.
Testing the system and the portal:
Testing the readiness by conducting experimental censuses through which the entities' files were uploaded. The findings of these census were compared the labs’ results. Recommendations were made to improve the system’s performance in terms of time spent and the extent to which the system took into account statistical methodologies.

Conducting the census:
After ensuring the flow of data and the readiness of the system, a screenshot of the registration data was taken on December 12, 2020, and the statistical rules & data indicators were updated.

Approval and publication of the results:
His Majesty Sultan Haitham bin Tariq, approved the results of the census on December 14, 2020. During a press conference held on the same day, the most important indicators were announced & the census portal was launched displaying the detailed results of the census.
Challenges during the covid 19
- The first infection with the COVID-19 in Oman was at the end of February 2020.
- At the end of March 2020 the government reduced the employee in the office up to 30%.
We already finished the first, second, and third phase, and we already started the fourth before the COVID 19.

- Also we already elaborated 2 pilot census.
- E-census team include for 71 employees. They are distributed in five different labs.
- The five labs were in different floors in the same building.
- The e-census team working is not stopped during all phases of the census, only two weeks we working from home.

The Challenges during the covid 19

- Integration: main sources are linked to census system not all
- Delay in adding complementary sources: secondary sources (not linked to census data like customs file)
- Optimization of ETLs time principle the aggregation transformation (ETL4): recently 4 hours
Data System
A national register system & a statistical production system

Collecting and uploading data: files or the links
- Applying technical standards.
- Linking the geographic data.
- Sorting errors of records.

Linking data and adding relationship tables
- Applying logical rules
- Sorting errors of records

Data encryption
- Storing / updating results - temporal dimension.
- Updating portal indicators.

Applying statistical methodologies

Agencies database
Integated database
Anonymized database
Statistical database