



EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL



Challenges in assessing and assuring the quality of new data sources for population and housing census 2025



Dhafer Al-Shawawreh
Head of Quality Department
Department of Statistics / Jordan

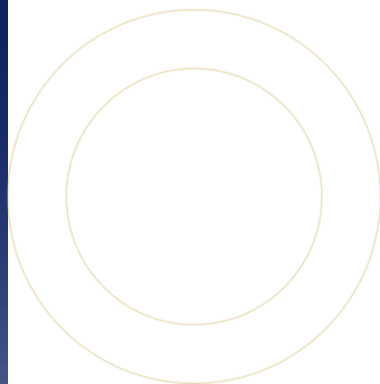




content

- **The aim of paper**
- **Population and Housing Census 2025 in Jordan**
- **Administrative records used in the 2025 Census**
- **Quality team documents and indicators**
- **Dimensions of quality at the source stage**
- **Dimensions of quality at the data stage**
- **Method of indicators Calculating**
- **Implementing the quality team**
- **Challenges**
- **Recommendations**





The aim of paper

This paper relies on applying the dimensions of data quality that identified by the guidelines for assessing the quality of administrative sources for use in censuses issued by the UNECE to the source stage and the data stage, measuring the extent of their effectiveness in accepting and integrating administrative sources into the 2025 Population and Housing Census, and noting the challenges facing the quality team





Population and Housing Census 2025 Hybrid in Jordan

- **Collect administrative sources from partners**
- **Auditing sources and linking them to be ready for the census**
- **Download records to tablets**
- **Linking the household administrative record with the address before the actual enumeration**
- **In the actual enumeration, the administrative record appears on the tablet when visiting the household**





Administrative records used in the 2025 Census

- **Records of the Civil Status and Passports Department**
- **Social Security corporation records**
- **Records of the Companies Control Department**
- **Amman Municipality records**
- **Records of the Ministry of Local Administration**
- **Ministry of Education records**
- **Records of the Ministry of Higher Education**
- **Records of the Ministry of Industry and Trade**
- **Health insurance records**





Quality team documents and indicators

- **Managing institutional arrangements that support quality. As a document of providing the department with the required data.**
- **Managing the quality of administrative records data. As a methodological document and procedures for auditing and examining the entity's records.**
- **Self-assessment of the statistical quality of administrative records data. As Prepare a checklist of all the procedures, documents, and indicators mentioned above.**





EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Dimensions of quality at the source stage

- **Appropriateness and accuracy**
- **Institutional environment**
- **Timing**
- **Consistency and comparability**
- **Accessibility and interpretation**



INSTITUTO NACIONAL DE ESTATÍSTICA
STATISTICS PORTUGAL

eurostat 

The conference is partly
financed by the European
Union



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Dimensions of quality at the data stage

- **Alignment and validation of data**
- **Accuracy and reliability**
- **Timing and adherence to deadlines**
- **Link-ability**



INSTITUTO NACIONAL DE ESTATÍSTICA
STATISTICS PORTUGAL

eurostat 

The conference is partly
financed by the European
Union



Method of indicators Calculating

- ✓ (0) → if it is not verified or achieved slightly
- ✓ (0.5) → if the indicator is partially achieved
- ✓ (1) → if it is fully verified and verified.

Then, the value is multiplied by the weight of the indicator

- ✓ if the indicator does not apply → the weight and degree of the indicator are distributed among the rest of the indicators





EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Implementing the quality team

The quality team developed a final assessment of the input phase of the administrative record. This is done by collecting evaluations of quality dimensions indicators to reach a decision regarding the administrative record and its suitability for census uses



INSTITUTO NACIONAL DE ESTATÍSTICA
STATISTICS PORTUGAL

eurostat 

The conference is partly
financed by the European
Union



Challenges

When applying the guidelines for evaluating administrative sources for use in censuses issued by the UNECE, the quality team faces many challenges, including:

1. There are no fixed and unified indicators and unified weights for quality dimensions that are appropriate for all administrative sources. Therefore, it requires experience and training in order to evaluate administrative sources.
2. Commitment to quality at the source stage is affected by changing officials, policies, and data structure.





Challenges

3. It takes a long time to obtain, understand and evaluate administrative data sources.
4. Difficulty for administrations accept that elements, definitions, concepts, time reference periods, coverage and measurement errors within an administrative source may not be consistent with the objectives of the census.
5. Difficulty in solving problems of incomplete data and linking operations with other administrative records.
6. A lot of time and effort is wasted and sometimes fails if administrative sources are not available at the same time.





Recommendations

1. Reformulating the evaluation of indicators and weights of quality dimensions in a more precise manner, Clarifying the qualifications and training courses to solve the problem.
2. Develop a clear model that contains the basic conditions for any agreement to solve the challenges of changing officials, policies, and structuring data at the source.
3. To plan, organize, and make optimal use of sources, we need a time-related process plan.





Recommendations

4. **Clarifying the risks of each dimension of quality if it is not achieved ideally to include it in the quality report for management so that the report is based on guidelines .**
5. **Include the names and sources of ready-made software that helps to complete data and link administrative records.**
6. **Clarifying the work on the administrative sources that make up the administrative record in parallel to reduce time and effort.**





Thank you for your attention