



Administrative data quality

Regional webinar on the use of administrative data sources for official statistics production in the Arab states 15 January 2025

CONTENT

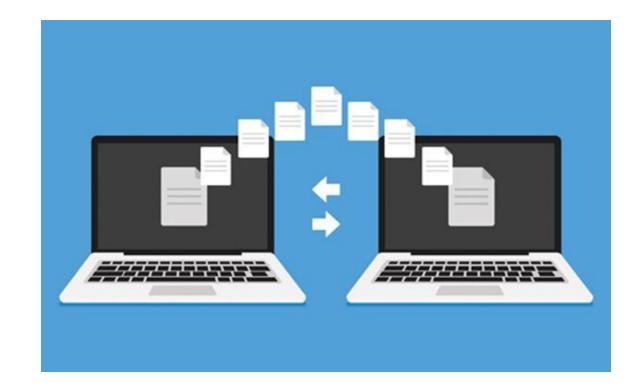
- What is administrative data?
- Definitions of quality
- Key values
- Quality tool
- Quality tool updates



Admin data – what we mean when we say it

Administrative data is collected by a **government department** or other public agency primarily for **administrative** (not research or statistical) **purposes**.

Administrative data is collected for the purposes of **registration**, **transaction and/or record-keeping**, usually during the delivery of a service.

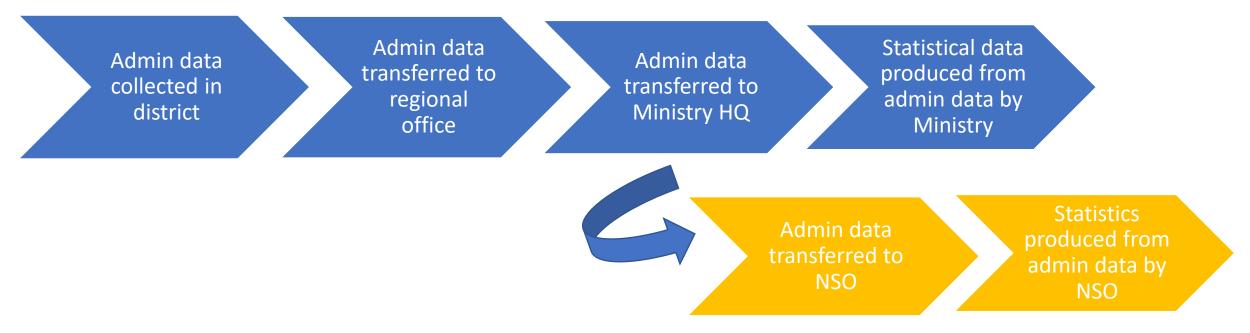


Handbook on Management and Organization of National Statistical Systems

Administrative data differs from surveys...

- Administrative data is not recorded/collected with statistics in mind
 - The statistics producer is often not in control of the collection and potentially some processing of the source data
 - Classifications, concepts and definitions might vary from the ones used in statistics
 - When producing statistics from admin data you do not design the questions and sample – instead you receive a dataset and need to work from there
 - What is collected might not exactly match the variables needed for statistics production
 - Quality of data might not be strongly in focus/ no system in place to assess it

Example: General process From administrative data to statistics



These are just two very simplified ways. All countries are organised differently, and this can look different depending on where you go. Many ministries have the legal mandate to produce statistics (and they do it) instead of the NSO and also publish them. Quality is defined by user needs but... The user does not decide which statistical methods are used to produce the statistics

The user does not decide if the quality of a statistical product is good.

The statistics producer is in charge of these processes and informs the user about the choices in method etc. And how does that affect quality management? Communication between all involved stakeholders is key

- To understand the data and data flow
- The learn about each other's needs and constraints
- To harmonise concepts and definitions
- To be aware of changes in collection and processing that can affect the data

Key values in data quality assessment and assurance efforts

- Honesty: Adherence to the facts, refusing to deceive others or oneself in any way.
- Openness: Willingness to engage with others and to hear and consider different opinions.
- **Courage**: Self-confidence and moral strength to relentlessly expose any type of organizational dysfunction, waste and to learn from failure.
- Respect: Recognition and appreciation of the intrinsic worth of the opinions and contributions of every team member and every stakeholder.

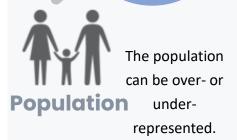
- Focus: Continuous effort to avoid lowvalue distractions and direct everyone's attention and energy to what matters most.
- Trust: Reliance on the good faith, truthfulness, knowledge and skills of each other
- Empowerment: Ability of self-organizing teams to ask and answer their own questions and to define for themselves how to do the work necessary to meet project goals.
- Collaboration: Capacity of team members to effectively cooperate and assist each other in achieving a common goal.

Sources of errors during the data lifecycle

Data capture

Data can be captured in paper and or electronically; by a government official or individual interacting with Government.

Capture



CREATION ERRORS

Data manipulation/processing errors

Data verification and editing

The data owner or NSO verify the data and modify as needed. Missing values are imputed.

Data transfer

Data is transferred from one administrative unit to another or from paper into electronic media.

Data exchange

Data is exchanged between different MDAs/entities.

Analysis and reporting

The data owner or NSO verify the data and modify as needed. Missing values are imputed.

> Analysis and reporting

ANALYSIS AND REPORTING ERRORS

First version of the quality assessment tool

Questionnaire for Assessing Quality of Administrative Data for Producing Official Statistics

Date of quality assessment:			sment:					
Name of publication/s, if specific for this assessment:								
Name of the administrative data source:								
Name of data holder and contact details:								
Short description of the administrative data source including its								
purpose:			urpose:					
Degree of compliance:		Yes, good compliance Yes, partial compliance		Instructions: Answer each question posed under "Requirement" by ch	nooing one of four options under "Compliance". Choose the	e answer which seems most re	elevant.	
		No, poor or no compliance		Add information to substantiate the answer under "Specify strengths, weaknesses or other relevant information".				
		Not relevant						
			_		Assessment		Assessment	
Level		Dimension		Requirement	Specification/Explanation	Compliance	Specify strengths, weaknesses or other relevant information	
1 :	Statistical system and Institutional environment	1.1 Legal provisions	1.1.1	Is there a legal framework/current practice, which mandates the data holder to collect the data?	Yes is good compliance, No is no compliance. In some cases there is a partly mandating legal framework or similar. In this case you need to explain and chose	Yes, good compliance		
				Is there a legal framework that allows the sharing of data with producers of official statistics for the production of official statistics	Yes is good compliance, No is no compliance. In some cases there is a partly mandating legal framework or similar. In this case you need to explain and chose	No, poor or no compliance	•	
			1.1.3	As part of this, is sharing of disaggregate data allowed?	Yes is good compliance, No is no compliance. In some cases there is a partly mandating legal framework or similar. In this case you need to explain and chose partially compliant.	Yes, partial compliance		
6		1.2 Memorandum of Understanding	1.2.1	Is them an institutional agreement which formalizes the detain of the cooperation an exchange of data?	Yes is good compliance, No is no compliance. In some ses there is a partial MoU that for example only for palises cooperation but no details. In this case you			
		Only relevant in case of da sharing between admin da holders and NSO	1.2.2	Are the term of delivery for the added at a agreed and documented ich as format of delivery, type of data, frequency et	agr is no compliance. If the terms are only partially agr , explain and chose partial compliance.			
		1.3 Confidentialit no security	1.3.1	Are intended at a kept anne model (e.g., it is not possible entify the individed there directly or indirected at a, there executed anonymetric anonymetric procedure)?	es cood compliance, no is no compliance. If the dual data are only partially kept confidential rand chose partial compliance.			
1.3.2 Do employees who work with the annonymised data Yes is good compliance, no is no compliance. If Instructions Stat.sys and Inst.envir. Source Processing Statistical Output Glossary +								

The process...



Country testing Administrative data sources have been assessed together with data holders and in most cases NSO in: Bhutan, Dominican Republic, Cameroon, Namibia, Maldives. and South Africa



Trainings

Trainings specifically on the tool and quality assessment have been conducted in Kenya, Ethiopia, Mozambique and South Sudan



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A1:D1	× .	fix Questions for the National Statistical Office (NSO)						
	А	В	С					
14		Question	list: - Yes - No - Partially - Don't know					
15	Political su	al support and legal framework						
16	1	Does the NSO have a mandate to use available administrative data sources for statistical purposes, including the census?						
17	2	Does existing statistical law give the NSO the right to access individual-level administrative data sources held by other government agencies for statistical purposes?						
18	3	Is there any legal mandate (legislation/regulations) for government agencies to provide their administrative data sources to NSO?						
19	4	Has any government agency invoked their own or other legislations/regulations to deny NSO access to an individual-level administrative data source?						
20	5	Has any government agency denied NSO access to an individual-level administrative data source due to privacy concerns?						
21	6	Does the NSO have a legal mandate to protect the confidentiality of individual-level data, including the data received from other government agencies?						
		Does the NSO have a legal mandate to set national standards and classifications that are						

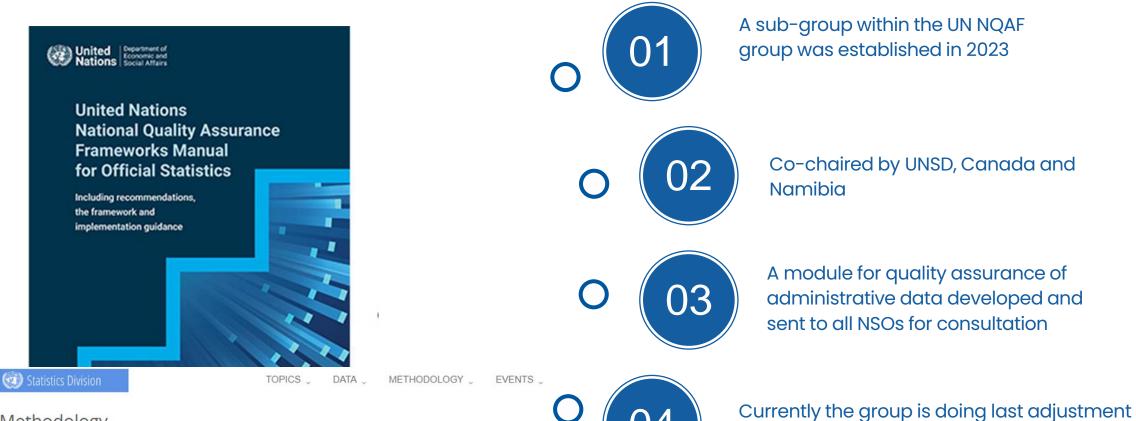
Other application

UN ECA and UN ESCAP have reviewed the tool and used elements for an administrative data assessment of the region and a questionnaire on censuses respectively

NQAF sub module on admin data

and testing the questionnaire that is an

annex to the module



Methodology

Quality Assurance > Global consultation 2024

Global Consultation 2024 on draft guidance on quality assurance when using administrative and other data sources and on a maturity model for quality culture

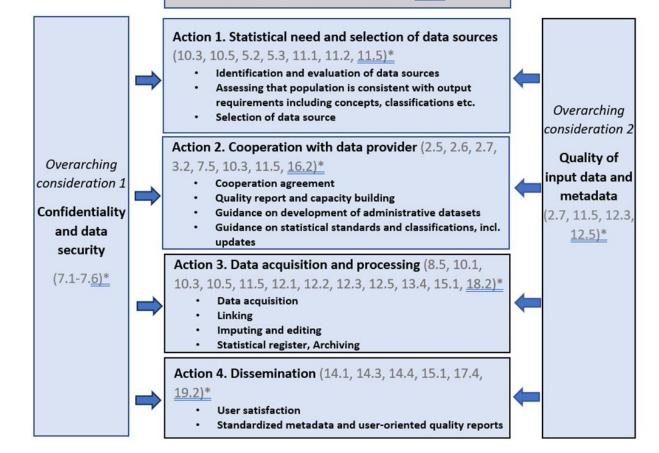
The United Nations Statistics Division (UNSD) launches a Global Consultations on two draft guidance documents on quality assurance prepared under the auspices of the Expert Group on National Quality Assurance Frameworks (EG-NQAF):

A draft Module for quality assurance when using administrative and other data sources to produce official statistics
A draft Maturity Model on Quality Culture in Official Statistics

NQAF sub module conceptual approach

Important preconditions:

- Legal basis (2.5 and <u>2.6)*</u>
- User needs for relevant statistics (14.1, <u>14.3)*</u>



CAD REVISED TOOL

AIMED AT COUNTRIES AT THE BEGINNING OF THEIR JOURNEY

MORE DETAILS THAN NQAF RESOURCE THAT CAN BE ADJUSTED TO COUNTRY NEEDS POSITIVE FEEDBACK ON REVISED TOOL FROM AFRICA AND ASIA PACIFIC





Thank you

CC SEL

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