Workshop on the Implementation of a National Quality Assurance Framework for Official Statistics in countries of the Africa Region Addis Ababa, Ethiopia, 14-18 October 2019

Quality Assurance in the case of different data sources

Certification of statistical outputs and providers

Portia Molalakgotla - South Africa 17 October 2019







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- Outputs





SASQAF identifies

dimensions of quality

Each dimension has associated quality indicators, standards and benchmarks.

Chapter 1: Prerequisites of quality

1.1 Description

The prerequisites of quality refer to the institutional and organisational conditions that have an impact on data quality. It defines the minimum set of necessary conditions that have to be met in order to produce good quality statistics. It therefore serves as the foundation on which all other dimensions of data quality should be premised on.

1.2 Key components

- Legal and institutional environment (including Memoranda of Understanding (MoUs) or Service Level Agreements (SLAs)
- Privacy and confidentiality
- Commensurability of resources
- Quality as the cornerstone of statistical work

1.3 Quality indicators, standards and benchmarks

Indicator		Standards		Assessment Levels			
				Quality Statistics Level 4	Acceptable Statistics Level 3	Questionable Statistics Level 2	Poor Statistics Level 1
1.1	The responsibility for producing statistics is clearly specified.	1.1.1	A legal arrangement exists that explicitly mandates the production of statistics.	A law or legal arrangement exists that explicitly provides the mandate for the production of statistics.	A law or legal arrangement exists that implies that statistical production is part of its mandate.	No law or legal arrangement exists, but an informal agreement exists for statistical production.	No arrangement exists.

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SANSS Phases Of Engagement





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SASQAF Process

Independent Assessment





Procedure for assessing statistics











- The producing agency should be a member of the NSS
- The statistics need to meet user needs beyond those specific and internal to the producing agency; and
- The statistics produced should be part of a sustainable series, not a once-off collection.







If you meet the criteria, we can now proceed









SASQAF training is conducted for the producer of the statistics

Indicators/standards are pre-selected and agreed upon between the producer of the statistics and the head of DQAT

The producer will conduct a self-assessment of the tatistics based on SASQAF and recommend a score for he product

The DQAT will do an independent assessment of the product(s) according to SASQAF



DQAT will recommend the overall SASQAF level of the product to the SG



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8 If the product(s) do not meet the criteria for 'quality statistics', the DQAT will advise the producer on areas of improvement



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If the product(s) meets the criteria for 'quality statistics', the product will be certified as "Official Statistics" by the Statistician General (SG)

It will be published with the SG's official seal of quality approval

The product will then be subject to periodic reviews



DQAT The Data Quality Assessment Team (DQAT)





The Data Quality Assessment Team (DQAT)

Set up according set procedures for SG to designate official statistics Constituted by the SG, drawn from: Statistics South Africa Applicant (product owner) Subject-matter expert(s) (recommended by product owner and/or the SG Users of the statistical product Statistics Council member

Chair of DQAT: Head of the South African National Statistical System







Newly appointed for each product



Sign terms of reference for the review and an oath of confidentiality





The Assessment







Example of an assessment

Indicator	Standard	Quality Statistics	Acceptable Statistics	Questionable Statistics	Poor Statistics	Findings and recommendations	
malcator		Level 4	Level 3	Level 2	Level 1		
1.1	1.1.1	X				Findings explain the given score	
1.2	1.2.1		X			Recommendations	
	1.2.2					provide areas of improvement	
1.3		X				needed	
1.4							
1.5					X		
Dimension Score						=(sum of scores)/(number of standards scored)	
d Mr. b							





Example of an assessment (cont.)

Quality dimension	Assessment Score
1: Pre-requisites of quality	3.76
2: Relevance	4
3: Accuracy	3.5
4: Timeliness	4
5: Accessibility	4
6: Interpretability	4
7: Coherence and Comparability	4
8: Methodological soundness	3.5
9: Integrity	4
Total Score (out of 36) :	34.76
Average Score (out of 4):	3.86





Assessment metadata template

Indicator	Standard	Meaning of Standard	Relevant Document	Comment
The responsibility for producing statistics is clearly specified	A legal arrangement exists that explicitly mandates the production of statistics	Stats SA has been clearly mandated to produce X product as per the legislation and as indicated in its annual work program: identified 10 areas of priorities include X statistics	 Statistics Act 1999 Stats SA work program 2010/11: Program 2, subprogram: X 	1. Sections 5 and 7 of the Act 2. Stats SA work program 2010/11 p.25 & p.67



stats sa



Example of an improvement plan

Agreements	Specific task
Agreement 1:	Put in place a new memorandum of understanding between X and Y detailing not only mandate of data production but also ownership with regards to the data:
	X and Y to sign a MoU that clearly defines the mandate of the Survey, each party's roles and responsibilities, as well as its dominion
Due date:	16 August 2011
Agreement 2:	Develop and adopt a statistical value chain (svc) and related policies:
	X has to adapt the standard SVC to bits data production process and develop related policies to each of the process
Due date: stats sa	21 March 2011





Outputs of the Assessment





Assessment report









CONFIDENTIAL







Data quality report













Statistical Release

- Published with the SG's seal of approval
- Contains a foreword by the SG











Assessment plan

Activity	Meetings Dates
1 st Core-DQAT review meeting	05 - 06 December 2016
2 nd Core-DQAT review meeting	08 February 2017
3rd Core-DQAT review meeting	11 December 2017
DQAT review meeting	13-14 March 2018
Final Assessment report	
Core-DQAT Quality planning meeting	
DQAT Quality planning meeting	
Quality plan and draft quality statement report	
Final quality statement report	
Publication of quality statement report	





Thank you



