Improving Education Statistics Systems: Challenges and Opportunities

Albert Motivans

a.motivans@unesco.org

UNESCO Institute for Statistics

World Statistics: Sustainable Data for Sustainable Development

20-22 October 2015 Xi'an, People's Republic of China

Do we have systems to monitor the education SDGs?

MDGs

- Universal primary education
- Gender parity in education

SDGs all disaggregated

- Primary and secondary education and outcomes
- Early childhood development
- TVET and tertiary education and outcomes
- Skills for work
- Global citizenship and education for sustainable development
- Education equity (gender, disadvantaged groups)
- School environments
- Scholarships
- Teachers

Education data eco-system

Lack of systemic approach/integration ———

Administrative data (EMIS): students, teachers, financing

Data quality issues,
e.g.coverage across governits, private sector
Limited disaggregation
Limited outcome
Measures

Assessment data: pupil performance and selection, adult skills

Mainly for basic education

Limited disaggregation Little use of data Fragile capacity Lack of harmonis

Household surveys and census data

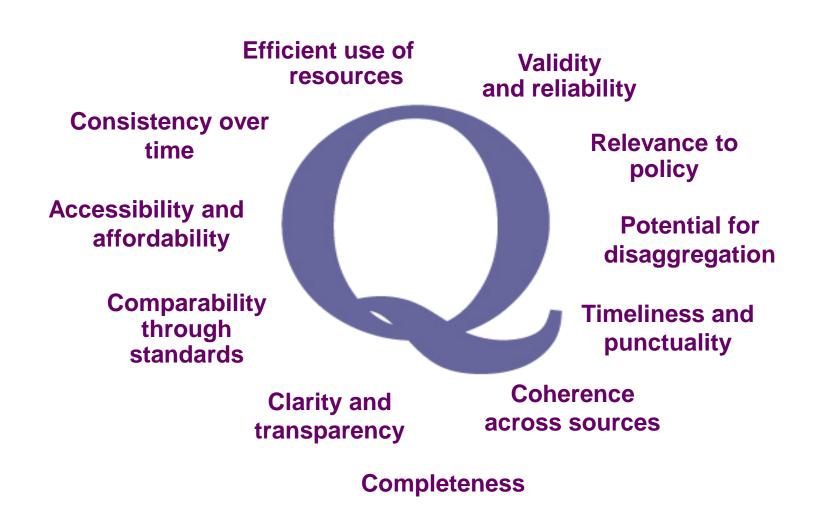
Little use of data

Lack of harmonisation

across national surveys

System level information (rules and norms)

Data quality: what is the starting point?



Assessing data quality

Purpose

- to improve the process and outcomes of data system
- To understand current situation
- To link toward link to a specific action/programme
- International tools (based on IMF)
 - Education DQAF and family of assessment tools (UIS)
 - SABER EMIS (World Bank)
- Good practices
 - The assessment should be country driven and owned
 - The assessment must be linked to an action plan and resources



ASSESSING EDUCATION DATA QUALITY IN THE SOUTHERN AFRICAN DEVELOPMENT COMMUNITY (SADC)





Edit | View history

Menu

Main page The DQAF Manual The UIS Education DQAF DQAF Main evolutions DQAF Events Good practices Countries **EMIS** The Education statistics

The Quality of statistics

Navigation

Main page Community portal Current events Recent changes Random page Help

Toolbox

What links here Related changes Upload file Special pages Permanent link

Cita this nage

Main Page

Assessment Framework developed by UNESCO Institute for Statistics of and the World Bank of for assessing the quality of education a

This Wiki 🗗 is about statistical data quality in general and more specifically about education data quality. It is a knowledge portal constit

The objective of the project is to provide an interactive platform for anyone interested in participating to the development of this repository

The DQAF Manual

This section of the wiki is dedicated to the Data quality assessment operations that UIS is engaged in in close collaboration with val operations are mainly quality assessment missions conducted in a country over a two weeks period by a group of specialists in edu education statistics and quality management. A report is presented to the national authorities in charge of Education and generally in recommendations and proposals for a plan of actions aiming at durable quality improvement. The assessment is technically based of quality assessment framework (DQAF) developed originally by the IMF to assess the quality of major national macro-economic stati This manual is intended to mainly inform on what the DQAF is and How to use it.

The UIS Education DQAF

From here is presented the framework that the assessment team uses to evaluate the quality of the production and management of information for the education sector in the reviewed country. UIS and the World Bank built a prototype of that frame for the Education developed by IMF. It identifies practices relevant to assess the quality; these practices are classified into indicators (3 digits), sub-0 Pre-requisites of quality, 1 Integrity, 2 Methodological soundness, 3 Accuracy and reliability, 4 Serviceability, 5 Accessibility; the chain. The prototype was progressively improved as presented in Main evolutions in the DQAF Methodology. At the time of the revie is Observed, Largely observed, Largely not observed and Not observed.

DQAF Events

One might access from this page onward the whole list of achieved DQAF fact finding missions and, when approved by national auth well as an executive summary of the report content presenting the findings, the recommendations and the proposals for a plan of ac meetings is also available from there.

Good practices

In addition to assisting individually reviewed country in improving the quality of its education management information, this Education goods practices in reviewed countries and letting them known to other countries as well as identifying documents presenting practic actions plans might introduced at country level. Recognised good practices are used in the scoring mechanisms. Good practices are structure.

Strengthening national capacity to implement data quality reviews

- Establish pool of regional experts and support Community of Practice in order to:
 - conduct education DQAF studies
 - promote South-South cooperation to share knowledge, experience and expertise
 - develop relevant training materials,
 - organize technical workshops to enhance skills and experience of country teams

A way forward?

"...call for a data revolution for sustainable development, with a new international initiative to improve the quality of statistics and information available to citizens. We should actively take advantage of new technology, crowd sourcing, and improved connectivity to empower people with information on the progress towards the targets."

- High Level Panel

Big data and education monitoring

- Potential for integrating data sources
- Link multiple sources through the use of common identifiers for individuals, households, schools
- For instance, linking socioeconomic data on households to:
 - to schools for children and youth
 - results from student assessments

Advancing the agenda

- For each data source
 - Reach consensus on survey methods
 - Field trials
 - Training in use of data
 - Policy dialogue to ensure sustainability
 - And others
- Consider a limited number of steps
- Fixed sources, fixed steps, known input costs
- Process can be more achievable

Country-level requirements

- Existence of demand many efforts to improve data are from the supply side, and many are not sustained
- Where demand is not part of the process, then capacity building and supply-side ideas won't take hold
- In many cases there is some demand, but limited... but this can be a starting point

Conclusions

- New pressures, challenges, and opportunities
- To sustain it, requires mapping the starting points, identifying gaps and developing technical capacity, demonstrating effects and collaboration
- Demand is a vital pre-condition