Education Data Quality Assessment Framework
Ed-DQAF

Greg Keeble
UNESCO Institute for Statistics
Overview

- What is Ed-DQAF
- Pacific Ed-DQAF
- Structure of Ed-DQAF
- Dimensions of Ed-DQAF
- Indicators of Ed-DQAF
- Best Practises for Ed-DQAF
- Online Ed-DQAF tool
What is ED-DQAF?

- The **Data Quality Assessment Framework** assesses the strengths and weaknesses of the education statistical system, based on the dimensions of data quality.

- The DQAF assessment provides a comprehensive evaluation of the quality of education data by comparing country’s practices with international standards.
Pacific Ed-DQAF

• UIS and SPC are assisting Pacific Island countries by undertaking in-depth assessments using full DQAF methodology in at least 6 countries.
• So far, DQAF assessments have been conducted in Samoa, Tonga and Kiribati
• These countries were selected based on national demand/priorities, country characteristics as well as consultation with regional partners
Ed-DQAF Structure

- Dimensions
- Sub-dimensions
- Indicators
- Practices

### Dimension

<table>
<thead>
<tr>
<th>Sub-dimensions</th>
<th>Indicators</th>
<th>Practices</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3. Accuracy and reliability

- 3.1. Source data provide adequate basis to compile statistics.
- 3.2. Assessment of source data
- 3.3. Statistical techniques
- 3.4. Data and statistical outputs are regularly assessed and validated.
- 3.5. Archiving of source data and statistical results.

#### 3.3. Statistical techniques

- 3.3.1. Data compilation employs sound statistical techniques
- 3.3.2. Other statistical procedures employ sound statistical techniques.

- Data compilation procedures minimize processing errors such as tabulation errors (=type of data, range etc) and errors report generation.
- The data collection instruments are designed in a way that makes them easy to complete and appropriate for computer processing, and they have also been pilot tested with a sample of respondents.
- If respondents fail to submit data due to a lack of resources, appropriate adjustments are made (missing data treatment).
- Procedures are documented and updated as needed.
Ed-DQAF Dimensions

- 0 Pre-requisites of quality
- 1 Integrity
- 2 Methodological soundness
- 3 Accuracy and reliability
- 4 Serviceability
- 5 Accessibility
Enabling Environment

Pre-requisites of quality
• Legal and institutional environment
• Resources
• Relevance
• Quality awareness

Integrity
• Professionalism
• Transparency
• Ethical standards
Production

Methodological soundness
- Concepts and definitions
- Scope
- Classification
- Basis for recording

Accuracy and reliability
- Source data available
- Assessment of source data
- Statistical techniques
- Revision studies
- Archiving of source data
Dissemination and Use

Serviceability
• Periodicity and timeliness
• Consistency

Accessibility
• Data accessibility
• Metadata accessibility
• Assistance for users
Rapid Data Quality Assessment for Pacific Island Countries

- Other Pacific Island countries will be assisted to conduct self and simplified rapid DQAF assessments
- An online tool is being developed to allow a rapid data quality assessment for Pacific Island Countries
Practical Exercise

Visit Website:
• Pacific DQAF Wiki
http://www.pacific-dqaf.org

Online Tool Prototype:
• Rapid Data Quality Assessment for Pacific Island Countries