countryData

CountryData Workshop Technologies for Data Exchange

Reference Metadata



























Metadata

According to the ISO;

"Metadata is data that defines and describes other data."

- Perhaps, better visualized as layers within a pyramid.
- Information describing the data is more detailed as one moves down from the top of the pyramid.

"Structural" metadata

- 1. At the top of the pyramid is information essential for understanding the data
- Needs to explain the 'basics' of when, where, who and what?

Reference metadata

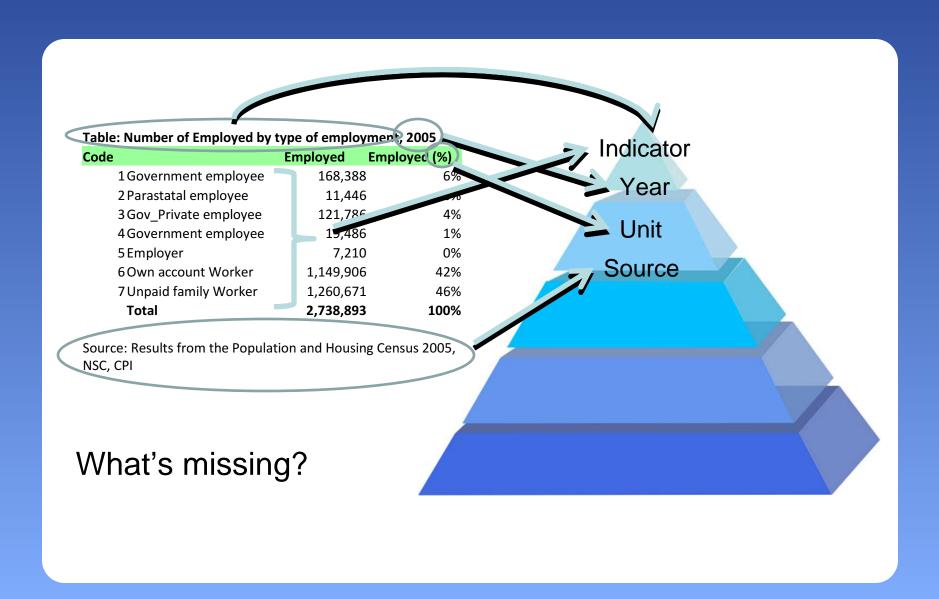
2. In the middle are explanatory notes and text generally located in the same "publication" provides a good description of the statistics

 definitions, key issues, limitations, etc., that can impact on the use of the data.

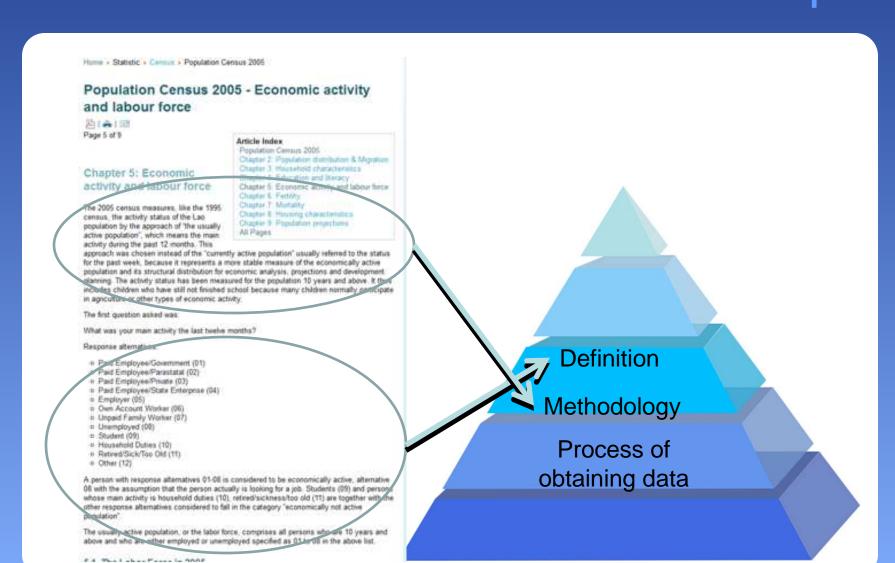
Methodological metadata

- 3. Detailed methodological information disseminated in publications / websites.
- These are potentially the source of the most detailed methodological information available.
- Some statistical agencies publish very detailed concepts, sources and methods for a number of their key statistics.

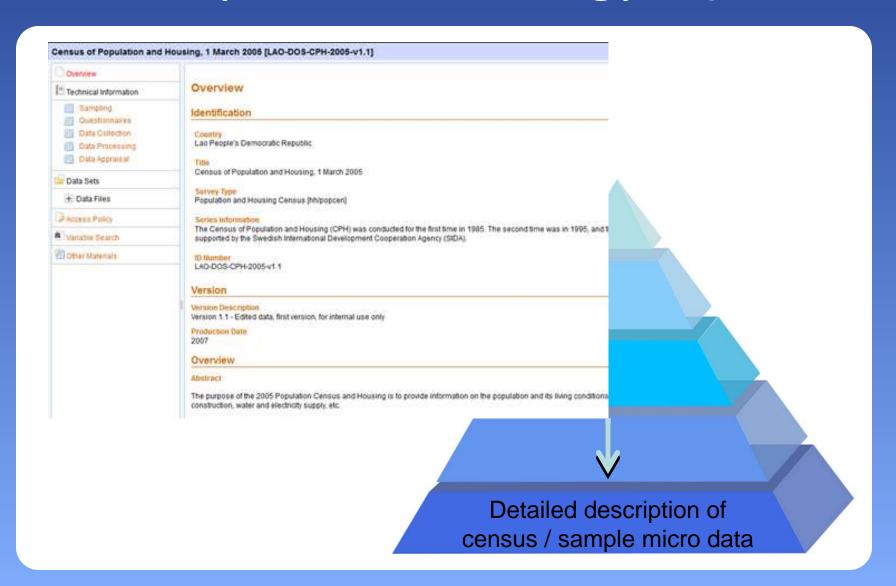
Structural metadata: Statistical table



Reference metadata: Statistical report



Example: Methodology report



Indicator

- 1. A statistical measure of a quantitative characteristic of an individual or collective phenomenon. (Adapted definition)
- 2. It is the first building block of any statistical series, i.e. what to measure?
- 3. Highest level, in the metadata hierarchy (i.e. composed of time series).
- 4. Usual level at which reference metadata are attached

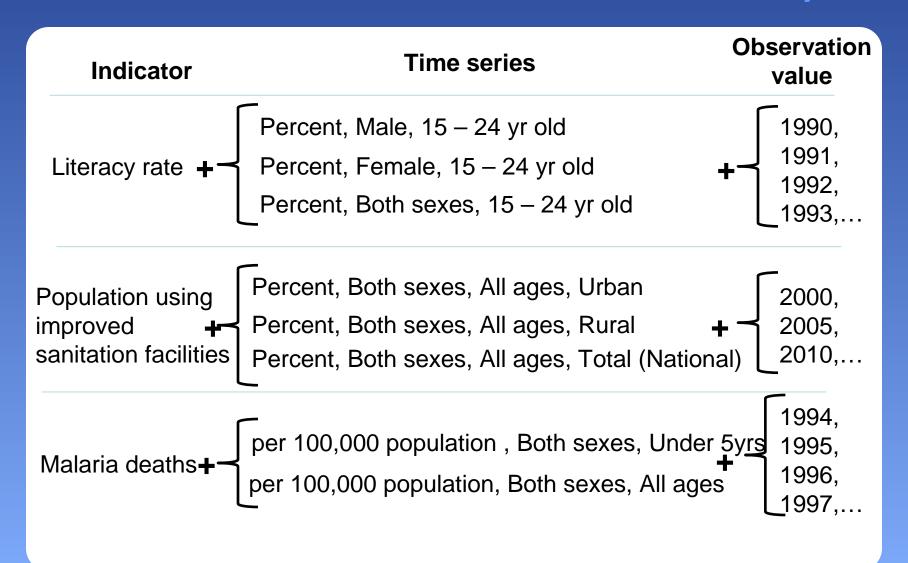
Time series

- 1. A set of ordered observations on a quantitative characteristic of an individual or collective phenomenon taken at different points of time. (MCV 2009)
- 2. Middle level, in the metadata attachment hierarchy (i.e. composed of observation values).

Observation value

- 1. The value of a particular variable at a particular period. (MCV 2009)
- 2. The observation value is the field which holds the data.
- 3. Lowest level, in the metadata attachment hierarchy.

Metadata attachment hierarchy



MDG/CountryData Metadata Structure Definition (MSD)

 Supports a "standard" set (based on MDG international database) of metadata to be exchanged to CountryData

ID	Description
DATA_PROVIDER	Country Name
SERIES	Indicator Title
STAT_CONC_DEF	Definition of the MDG official indicator or background series provided
METHOD_COMP	Method of computation
COMMENTS_LIMITATIONS	Comments and limitations
DISCREPANCIES	Sources of discrepancies between global and national figures
COLL_METHOD	Process of obtaining data
REL_CAL_POLICY	Expected time of release

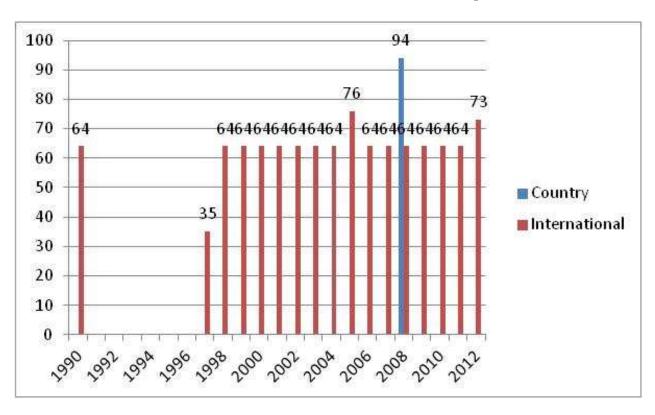
Definition

Definition

- Provide descriptive information on the definition of the concepts associated with;
 - the indicator (i.e. births, disease, etc.)
 - any classifications used (i.e. industry, financial, environmental, rural/urban, occupations, age groups etc.)
- Often includes specific examples of what is and is not included in particular categories.

Need to explain...

Total number of seats in national parliament



Source:

Country, NEC National Election Commission 2008 **International**, Country Data

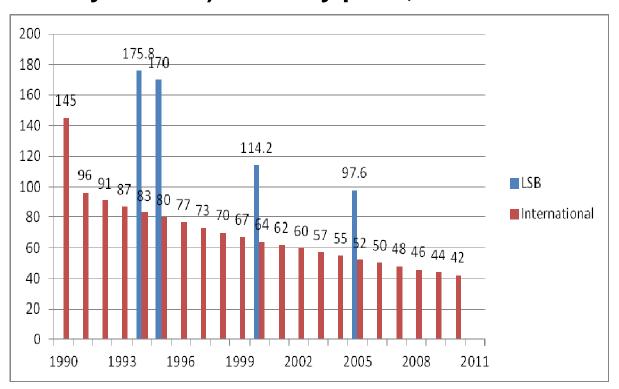
Methodology

Methodology

- 1. Provide descriptive information on any calculations made with the source data to produce the indicator
- 2. Including formulas, adjustments and weighting particularly where mixed sources are used or where the calculation has changed over the time (i.e. discontinuities in the series).
- 3. References to documentation related to various aspects of the data, such as detailed methodological documents or papers covering concepts, scope, classifications and statistical techniques.

Need to explain...

Child (Under-5 years old) mortality per 1,000 live births



Source:

LSB, NSC FBSS 1994 /CPC Census 1995 /SPC RHS 2000 /CPI Census 2005. International, Estimated.

Process of obtaining data

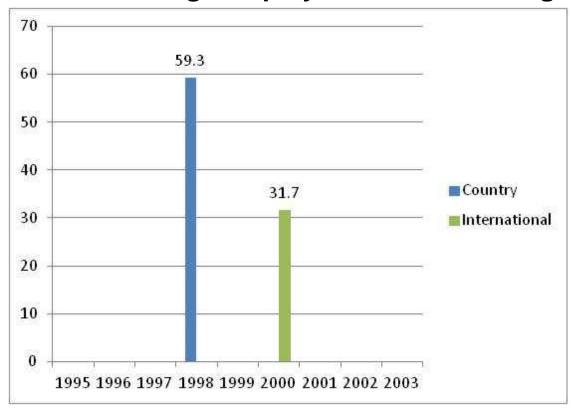
Process of obtaining data

- Provide descriptive information on the source.
- For example with a census/ survey source the following should be described;
 - the sample frame used & coverage
 - type of interview conducted
 - dates/ duration of fieldwork
 - sample size & coverage
 - response rate
 - history of the source (including breaks in series)
 - details of denominator (if from a different source)

Need to explain...

Share of women in wage employment in the non-agricultural

sector



Source:

Country, Ghana Statistical Service_GLSS3_1998 **International**, Country data (Total paid employment)

Benefits of managing metadata

- Use up-to-date classifications and definitions
- Gain resources
- Increase morale and productivity
- Capitalising on lessons learned
- Make it available to users
- Easier for data users to understand
- Increased trust in official statistics

Thank you for your attention

Sources of further reference:



Data and Metadata Reporting and Presentation Handbook:

http://www.oecd.org/document/21/0,3746,en_2649_2 01185_43240533_1_1_1_1,00.html



http://www.unece.org/stats/archive/04.01d.e.html

Statistical Metadata in a corporate contect: http://www.unece.org/fileadmin/DAM/stats/publications/CMF PartA.pdf





http://unstats.un.org