Authoring Tool Test

16 April 2020

Metadata Attachment

Reporting type

Global

SDG series

4.1.1 Proportion of children and young people achieving a minimum proficiency level in reading and mathematics

Reference area

World

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| 0. Indicator information | |
| Detailed concept name | *Insert text, lists, tables, and images.* |
| 0.a. Goal | Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all |
| 0.b. Target | Target 4.1: By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes |
| 0.c. Indicator | Indicator 4.1.1: Proportion of children and young people: (a) in grades 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex) |
| 0.d. Series |  |
| 0.e. Metadata update | Last updated: July 2016 |
| 0.f. Related indicators | Related indicators  This metadata covers part (b) and (c) of indicator 4.1.1: proportion of children and young people ***(b) at the end of primary; and (c) at the end of lower secondary*** achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex  1.2, 1.4, 1.5, 2.1, 2.2, 2.3, 3.1, 3.3, 3.4, 3.7, 3.c, 4.5, 5.3, 5.4, 5.5, 5.b, 7.a, 8.6, 8.7, 8.b, 10.2, 10.6, 12.8, 13.3, 13.b, 16.a |
| 0.g. International organisations(s) responsible for global monitoring | Institutional information  ****Organization(s):****  UNESCO Institute for Statistics (UNESCO-UIS) |

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| 1. Data reporter | |
| Detailed concept name | *Insert text, lists, tables, and images.* |
| 1.a. Organisation |  |
| 1.b. Contact person(s) |  |
| 1.c. Contact organisation unit |  |
| 1.d. Contact person function |  |
| 1.e. Contact phone |  |
| 1.f. Contact mail |  |
| 1.g. Contact email |  |

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| 2. Definition, concepts, and classifications | |
| Detailed concept name | *Insert text, lists, tables, and images.* |
| 2.a. Definition and concepts | Concepts and definitions  ****Definition:****  Percentage of children and young people in Grade 2 or 3 of primary education, at the end of primary education and the end of lower secondary education achieving at least a minimum proficiency level in (a) reading and (b) mathematics. The minimum proficiency level will be measured relative to new common reading and mathematics scales currently in development.  ****Concepts:****  Minimum proficiency level is the benchmark of basic knowledge in a domain (mathematics or reading) measured through learning assessments. For example, the Programme for International Student Assessment (PISA) reading test has six proficiency levels, of which Level 2 is described as the minimum proficiency level. In Trends in International Mathematics and Science Study (TIMSS) and Progress in International Reading Literacy Study (PIRLS), there are four proficiency levels: Low, Intermediate, High and Advanced. Students reaching the Intermediate benchmark are able to apply basic knowledge in a variety of situations, similar to the idea of minimum proficiency. Currently, there are no common standards validated by the international community or countries. The indicator shows data published by each of the agencies and organizations specialised in cross-national learning assessments. |
| 2.b. Unit of measure |  |
| 2.c. Classifications |  |

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| 3. Data source type and data collection method | |
| Detailed concept name | *Insert text, lists, tables, and images.* |
| 3.a. Data sources | Data sources  ****Description:****  Various cross-national learning assessments including: Programme d'analyse des systèmes éducatifs de la CONFEMEN (PASEC), Progress in International Reading Literacy Study (PIRLS), Programme for International Student Assessment (PISA), Southern and Eastern Africa Consortium for Monitoring Educational Quality (SACMEQ), Tercer Estudio Regional Comparativo y Explicativo (TERCE) and Trends in International Mathematics and Science Study (TIMSS). (a) Short-term strategy: Use national large-scale representative assessment data from cross-national assessments even though the performance levels may not be directly comparable. (b) Medium-term strategy: Use a global reporting scale based on either a new test or the statistical linking of national, regional and cross-national assessments. |
| 3.b. Data collection method | ****Collection process:****  For cross-national learning assessments, data were provided by the respective organizations responsible for each assessment. |
| 3.c. Data collection calendar | Calendar  ****Data collection:****  Various. Each learning assessment has its own data collection cycle. |
| 3.d. Data release calendar | ****Data release:****  July 2016 |
| 3.e. Data providers | Data providers  ****Name:****  Bodies responsible for conducting learning assessments (including Ministries of Education, National Statistical Offices and other data providers). For cross-national assessments, the data providers are the International Association for the Evaluation of Educational Achievement (IEA), Laboratorio Latinoamericano de Evaluación de la Calidad de la Educación (LLECE), the Organisation for Economic Co-operation and Development (OECD), Programme d'Analyse des Systèmes Educatifs de la CONFEMEN (PASEC) and Southern and Eastern Africa Consortium for Monitoring Educational Quality (SACMEQ). |
| 3.f. Data compilers | Data compilers  UNESCO Institute for Statistics |
| 3.g. Institutional mandate |  |

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| 4. Other methodological considerations | |
| Detailed concept name | *Insert text, lists, tables, and images.* |
| 4.a. Rationale | ****Rationale:****  The indicator is a direct measure of the learning outcomes achieved in the two subject areas at the end of the relevant stages of education. The three measurement points will have their own established minimum standard. There is only one threshold that divides students into above and below minimum:   1. Below minimum is the proportion or percentage of students who do not achieve a minimum standard as set up by countries according to the globally-defined minimum competencies. 2. Above minimum is the proportion or percentage of students who have achieved the minimum standards. Due to heterogeneity of performance levels set by national and cross-national assessments, these performance levels will have to be mapped to the globally-defined minimum performance levels. Once the performance levels are mapped, the global education community will be able to identify for each country the proportion or percentage of children who achieved minimum standards. |
| 4.b. Comment and limitations | ****Comments and limitations:****  While data from many national assessments are available now, every country sets its own standards so the performance levels might not be comparable. One option is to link existing regional assessments based on a common framework. Furthermore, assessments are typically administered within school systems, the current indicators cover only those in school and the proportion of in-school target populations might vary from country to country due to varied out-of-school children populations. Assessing competencies of children and young people who are out of school would require household-based surveys. Assessing children in households is under consideration but may be very costly and difficult to administer and unlikely to be available on the scale needed within the next 3-5 years. Finally, the calculation of this indicator requires specific information on the ages of children participating in assessments to create globally-comparable data. The ages of children reported by the head of the household might not be consistent and reliable so the calculation of the indicator may be even more challenging. Due to the complication in assessing out-of-school children and the main focus on improving education system, the UIS is taking a stepping stone approach. It will concentrate on assessing children in school in the medium term, where much data are available, then develop more coherent implementation plan to assess out-of-school children in the longer term. |
| 4.c. Method of computation | Methodology  ****Computation method:****  The indicator is calculated as the percentage of children and/or young people at the relevant stage of education achieving or exceeding a pre-defined proficiency level in a given subject.  Performance above the minimum level, PLtn,s, above minimum = p  where p is the percentage of students in a learning assessment at stage of education n, in subject s in any year (t-i) where 0 ? i ? 5, who has achieved the level of proficiency that is greater than a pre-defined minimum standard, Smin. The minimum standard is defined by the global education community taking into consideration regional differences. |
| 4.d. Validation |  |
| 4.e. Adjustments |  |
| 4.f. Treatment of missing values (i) at country level and (ii) at regional level | ****Treatment of missing values:**** **At country level:** None by data compiler. **At regional and global levels:** None by data compiler. |
| 4.g. Regional aggregations | ****Regional aggregates:****  Regional and global aggregates are not currently available for this indicator. |
| 4.h. Methods and guidance available to countries for the compilation of the data at the national level |  |
| 4.i. Quality management |  |
| 4.j. Quality assurance |  |
| 4.k. Quality assessment |  |

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| 5. Data availability and disaggregation | |
| Detailed concept name | *Insert text, lists, tables, and images.* |
| 5. Data availability and disaggregation | Data availability  ****Description:****  79 countries  ****Time series:****  Latest year available in the period 2010-2015.  ****Disaggregation:****  By age or age-group of students, sex, location, socio-economic status, migrant status and ethnicity. Disability status is not currently available in most national and cross-national learning assessments but could be considered for future assessments. |

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| 6. Comparability/deviation from international standards | |
| Detailed concept name | *Insert text, lists, tables, and images.* |
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| 7. References and documentation | |
| Detailed concept name | *Insert text, lists, tables, and images.* |
| 7. References and Documentation | References  ****URL:****  <http://www.uis.unesco.org/Pages/default.aspx>  ****References:****  Programme d’analyse des systems éducatifs de la CONFEMEN (PASEC): <http://www.pasec.confemen.org/>  Progress in International Reading Literacy Study (PIRLS): [http://www.iea.nl/pirls\_2016.html](http://www.iea.nl/pirls_2016.html%20)  Programme for International Student Assessment (PISA): [https://www.oecd.org/pisa/aboutpisa/](https://www.oecd.org/pisa/aboutpisa/%20)  The Southern and Eastern Africa Consortium for Monitoring Educational Quality (SACMEQ): [http://www.sacmeq.org/?q=sacmeq-projects/sacmeq-iv](http://www.sacmeq.org/?q=sacmeq-projects/sacmeq-iv%20)  Tercer Estudio Regional Comparativo y Explicativo (TERCE): <http://www.unesco.org/new/es/santiago/education/education-assessment-llece/third-regional-comparative-and-explanatory-study-terce/>  Trends in International Mathematics and Science Study (TIMSS): <http://www.iea.nl/timss_2015.html> |