Metadata Attachment

Reporting type

Choose an item.

SDG series

Choose an item.

Reference area

Choose an item.

Metadata Submission Form

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| 0. Indicator information | |
| Concept name | *Insert text, lists, tables, and images.* |
| 0. Indicator information |  |
| 0.a. Goal | Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation |
| 0.b. Target | Target 9.c: Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020 |
| 0.c. Indicator | Indicator 9.c.1: Proportion of population covered by a mobile network, by technology |
| 0.d. Series |  |
| 0.e. Metadata update | Last updated: 19 July 2016 |
| 0.f. Related indicators | Related indicators as of February 2020  1.4, 2.3, 2.c, 9.1, 11.b, 13.1 |
| 0.g. International organisations(s) responsible for global monitoring | Institutional information  Organization(s):  International Telecommunication Union (ITU) |

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| 1. Data reporter | |
| Concept name | *Insert text, lists, tables, and images.* |
| 1. Data reporter |  |
| 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 | |
| Concept name | *Insert text, lists, tables, and images.* |
| 2. Definition, concepts, and classifications |  |
| 2.a. Definition and concepts | Concepts and definitions  Definition:  Proportion of population covered by a mobile network, broken down by technology, refers to the percentage of inhabitants living within range of a mobile-cellular signal, irrespective of whether or not they are mobile phone subscribers or users. This is calculated by dividing the number of inhabitants within range of a mobile-cellular signal by the total population and multiplying by 100.  Concepts:  The indicator is based on where the population lives, and not where they work or go to school, etc. When there are multiple operators offering the service, the maximum population number covered should be reported. Coverage should refer to LTE, broadband (3G) and narrowband (2G) mobile-cellular technologies and include:  **2G mobile population coverage**: Mobile networks with access to data communications (e.g. Internet) at downstream speeds below 256 Kbit/s. This includes mobile-cellular technologies such as GPRS, CDMA2000 1x and most EDGE implementations. The indicator refers to the theoretical ability of subscribers to use non-broadband speed mobile data services, rather than the number of active users of such services.  **3G population coverage**: refers to the percentage of inhabitants that are within range of at least a 3G mobile-cellular signal, irrespective of whether or not they are subscribers. This is calculated by dividing the number of inhabitants that are covered by at least a 3G mobile-cellular signal by the total population and multiplying by 100. It excludes people covered only by GPRS, EDGE or CDMA 1xRTT.  **LTE population coverage**: Refers to the percentage of inhabitants that live within range of LTE/LTE-Advanced, mobile WiMAX/WirelessMAN or other more advanced mobile-cellular networks, irrespective of whether or not they are subscribers. This is calculated by dividing the number of inhabitants that are covered by the previously mentioned mobile-cellular technologies by the total population and multiplying by 100. It excludes people covered only by HSPA, UMTS, EV-DO and previous 3G technologies, and also excludes fixed WiMAX coverage.  As technologies evolve and as more and more countries will deploy and commercialize more advanced mobile-broadband networks (5G etc.), the indicator will include further breakdowns. |
| 2.b. Unit of measure |  |
| 2.c. Classifications |  |

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| 3. Data source type and data collection method | |
| Concept name | *Insert text, lists, tables, and images.* |
| 3. Data source type and collection method |  |
| 3.a. Data sources | Data sources  Description:  This indicator is based on an internationally agreed definition and methodology, which have been developed under the coordination of ITU, through its Expert Groups and following an extensive consultation process with countries. It is also a core indicator of the Partnership on Measuring ICT for Development's Core List of Indicators, which has been endorsed by the UN Statistical Commission (last time in 2014).  ITU collects data for this indicator through an annual questionnaire from national regulatory authorities or Information and Communication Technology Ministries, who collect the data from Internet service providers. |
| 3.b. Data collection method | Collection process:  ITU collects data for this indicator through an annual questionnaire from national regulatory authorities or Information and Communication Technology Ministries, who collect the data from Internet service providers. |
| 3.c. Data collection calendar | Calendar  Data collection:  Data are collected through the short ITU World Telecommunication/ICT Indicators Questionnaire in April of each year and published in June of each year. |
| 3.d. Data release calendar | Data release:  June 2016. |
| 3.e. Data providers | Data providers  Telecommunication/ICT regulatory authority, or Ministry of ICTs. |
| 3.f. Data compilers | Data compilers  ITU |
| 3.g. Institutional mandate |  |

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| 4. Other methodological considerations | |
| Concept name | *Insert text, lists, tables, and images.* |
| 4. Other methodological considerations |  |
| 4.a. Rationale | Rationale:  The percentage of the population covered by a mobile cellular network can be considered as a minimum indicator for ICT access since it provides people with the possibility to subscribe to and use mobile-cellular services to communicate. Over the last decade, mobile-cellular networks have expanded rapidly and helped overcome very basic infrastructure barriers that existed when fixed-telephone networks – often limited to urban and highly populated areas - were the dominant telecommunication infrastructure.  While 2G (narrowband) mobile-cellular networks offer limited (and mainly voice-based) services, higher-speed networks (3G and LTE) provide increasingly high-speed, reliable and high-quality access to the Internet and its increasing amount of information, content, services, and applications. Mobile networks are therefore essential to overcoming infrastructure barriers, helping people join the information society and benefit from the potential of ICTs, in particular in least developed countries.  The indicator highlights the importance of mobile networks in providing basic, as well as advanced communication services and will help design targeted policies to overcome remaining infrastructure barriers, and address the digital divide. Many governments track this indicator and have set specific targets in terms of the mobile population coverage (by technology) that operators must achieve. |
| 4.b. Comment and limitations | Comments and limitations:  Some countries have difficulty calculating overall mobile-cellular population coverage. In some cases, data refer only to the operator with the largest coverage, and this may understate the true coverage. |
| 4.c. Method of computation | Methodology  Computation method:  The indicator percentage of the population covered by a mobile network, broken down by technology, refers to the percentage of inhabitants living within range of a mobile-cellular signal, irrespective of whether or not they are mobile phone subscribers or users. This is calculated by dividing the number of inhabitants within range of a mobile-cellular signal by the total population and multiplying by 100. |
| 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**   Missing values are estimated using data published by mobile cellular operators that have the largest market share.   * **At regional and global levels**   Missing values are estimated using data published by mobile cellular operators that have the largest market share. |
| 4.g. Regional aggregations | Regional aggregates:  Global and regional estimates are produced using weighted country-level data. First, the missing country-level data are estimated using data of the dominant mobile operator. Once all the country-level percentages are available, the number of people covered by the mobile signal is calculated by multiplying the percentage of population covered by the signal to the population of the country. The regional and world total population covered by a signal were calculated by summing the country-level data. The aggregate percentages were calculated by dividing the regional totals by the population of respective groups. |
| 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 | |
| Concept name | *Insert text, lists, tables, and images.* |
| 5. Data availability and disaggregation | Data availability  By 2015, data on 2G mobile population coverage were available for about 147 countries, from developed and developing regions, and covering all key global regions. Data on 3G mobile population coverage were available for 152 countries and data on LTE mobile population coverage were available for 124 countries. ITU publishes data on this indicator yearly.  Disaggregation:  Based on the data for the percentage of the population covered by a mobile network, broken down by technology, and on rural population figures, countries can produce estimates on rural and urban population coverage. ITU produces global estimates for the rural population coverage, by technology. |

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| 6. Comparability/deviation from international standards | |
| Concept name | *Insert text, lists, tables, and images.* |
| 6. Comparability/deviation from international standards | **Sources of discrepancies:**  None. ITU uses the data provided by countries, including the in-scope population that is used to calculate the percentages. |

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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.itu.int/en/ITU-D/Statistics/Pages/default.aspx>  References:  ITU Handbook for the collection of Administrative Data on Telecommunications/ICT, 2011 (and revisions and new indicators), see:<http://www.itu.int/en/ITUD/Statistics/Pages/publications/handbook.aspx> |