

SDG Goal 4 Quality education

SDG Target 4.4 **By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship**

SDG Indicator 4.4.1 **Proportion of youth and adults with information and communications technology (ICT) skills, by type of skill**

Time series **Persons with computer-related activities in the previous 12 months**

1. General information on the time series

- Date of national metadata: 02 September 2021
- National data: <http://sdg-indikatoren.de/en/4-4-1/>
- Definition: The time series measures the percentage of individuals who - within the last 12 months - have been
 - copying or moving a file or folder at a computer
 - using copy or cut and paste tools to duplicate or move information on screen
 - using spreadsheet's advanced functions to organise and analyse data, such as sorting, filtering, using formulas or creating charts
 - connecting and installing new devices, e.g. a printer or a modem
 - installing software or applications (apps)
 - creating electronic presentations with presentation software (including text, images, sound, video or charts)
 - transferring files between a computer or other devices
 - writing code in a programming language.
- Disaggregation: age group; activities

2. Comparison with global metadata

- Date of global metadata: June 2020
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-04-04-01.pdf>
- The time series is compliant with the global metadata, however, the information is for the entire reporting year and not for the last three months as required by the metadata.

3. Data description

- The data are taken from Eurostat's annual model questionnaire on ICT (Information and Communication Technologies) usage in households and by individuals. As from 2021 the questionnaire will be part of the Microcensus. The Microcensus is an inquiry directed to households, designed to obtain information on the labour market and related issues through a series of personal interviews with a sample of 1 %. The Microcensus is designed as a multi-topic survey, integrating many different subject fields.

4. Accessibility of source data

- Individuals' level of computer skills - Eurostat table [isoc_sk_cskl_i]:
http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=isoc_sk_cskl_i&lang=en

5. Metadata on source data

- Metadata on individuals' level of computer skills:
https://ec.europa.eu/eurostat/cache/metadata/en/isoc_i_esms.htm

6. Timeliness and frequency

- Timeliness: t + 9 months
- Frequency: Irregular

7. Calculation method

- Unit of measurement: %
- Calculation method:

$$\text{Proportion of persons with computer - related activities in the last 12 months} = \frac{\text{Persons in age group}_i \text{ with activities in}_j [\text{number}]}{\text{Population in age group}_i [\text{number}]} \cdot 100 [\%]$$

$i \in \{\text{Total}; 16 \text{ to under } 25 \text{ years}; 25 \text{ to under } 64 \text{ years}\}$

$j \in \{\text{Copying or moving of files and folders};$

Using copy or cut and paste tools to duplicate or move information on screen;

Writing code in a programming language;

Connecting and installing new devices, eg a printer or a modem;

Transferring files between computer and other devices;

Installing software or apps;

Creating electronic presentations with presentation software, including e.g. images, sound, video or charts;

Using spreadsheet's advanced functions to organize and analyze data, such as sorting, filtering, using formulas, creating charts}