



Researching education, improving learning

ICILS 2023

IEA GA-60

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Slovenia



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ICILS 2023 will...



- investigate the ways in which young people are prepared for study, work and participation in a digital world
- generate internationally comparable indicators of students' computer and informational literacy and computational thinking
- monitor changes in computer and information literacy and computational thinking over time
- examine the use of digital technologies in schools, in particular how they are used to develop students' core digital competencies
- support countries to make informed decisions about how best to prepare students for life in an age of constantly evolving digital technologies.

What will be assessed in ICILS 2023?



- CIL
 - the ability to use computers to investigate, create, and communicate in order to participate effectively at home, at school, in the workplace and in society
- CT (international option)
 - the ability to recognize aspects of real-world problems which are appropriate for computational formulation and to evaluate and develop algorithmic solutions to those problems so that the solutions could be operationalized with a computer

What will be new in ICILS 2023?

- Explicit consideration of the contribution of process data to the assessment framework, instrument design and measurement and reporting of student CIL and CT
- The option of web-based delivery
- New CIL modules to reflect changes in technologies and online application/software contexts
- New CT modules to expand the content and contexts in which CT is measured and expressed

Who will provide data for ICILS 2023?



- Students in Grade 8 (or equivalent)
 - Randomly sampled from each participating school
- Teachers of Grade 8
 - Randomly sampled from each participating school
- School principals and ICT coordinators from each participating school
- National Centers (through a national contexts survey of country-level policies, curricula and resourcing)

Why participate in ICILS 2023?



UN SDG target 4.4 is by 2030 to:

substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship.

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Indicator 4.4.1 is:

the proportion of youth and adults with information and communications technology (ICT) skills, by type of skill.

Why participate in ICILS 2023?



ICT skills *directly* measured and reported on in ICILS (CIL)

- Adaptable technical use skills based on understandings of technological conventions
- Essential life skills associated with searching for, accessing and managing digital information
- Information evaluation (critical thinking) skills in a time ever increasing access to information from known and unknown sources
- Productive communication skills that utilize the features of technology to access audiences and enhance audience understanding
- Knowledge and critical thinking skills associated with the safe, secure and responsible production and consumption of digital information

Why participate in ICILS 2023?



ICT Skills *directly* measured and reported on in ICILS (CT)

- Adaptable problem solving skills for recognizing the potential for computer-based solutions to real-world problems
- Skills associated with data collection and evaluation to:
 - plan solutions to problems
 - evaluate solutions
- Generalizable algorithmic-thinking skills that support the specification of problems to support the generation of logically, algorithmic solutions

ICILS 2023 Timeline

March 2020

1st meeting of NRCs
(16-17 March, 2020)

2020-mid 2021

Framework revision, establishment
of testing platform and instrument
development

Late 2021

Finalization of framework and
instruments

Early 2022

Field trial

Early 2023

Main survey data collection in
Northern Hemisphere countries

Late 2023

Main survey data collection in
Southern Hemisphere countries

Late 2024

Publication of the results

Early 2025

Launch of a public-use
database and documentation

Thank you

Questions

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