

ICILS 2023 Progress Report

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IEA General Assembly 64 – Versailles, France



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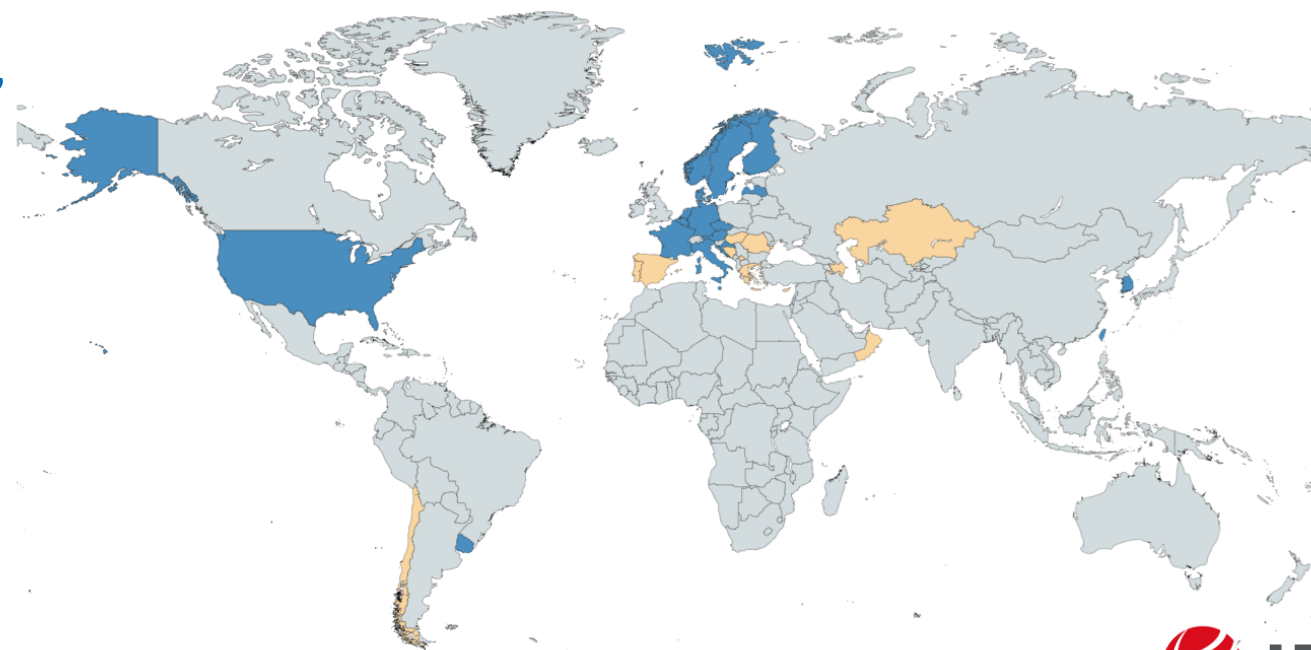
Contents

- Country participation
- ICILS 2023 main survey
 - Instruments and instrument preparation
 - Current status
- Reflections on ICILS 2023 main survey data collection
- Next steps
- ICILS 2028

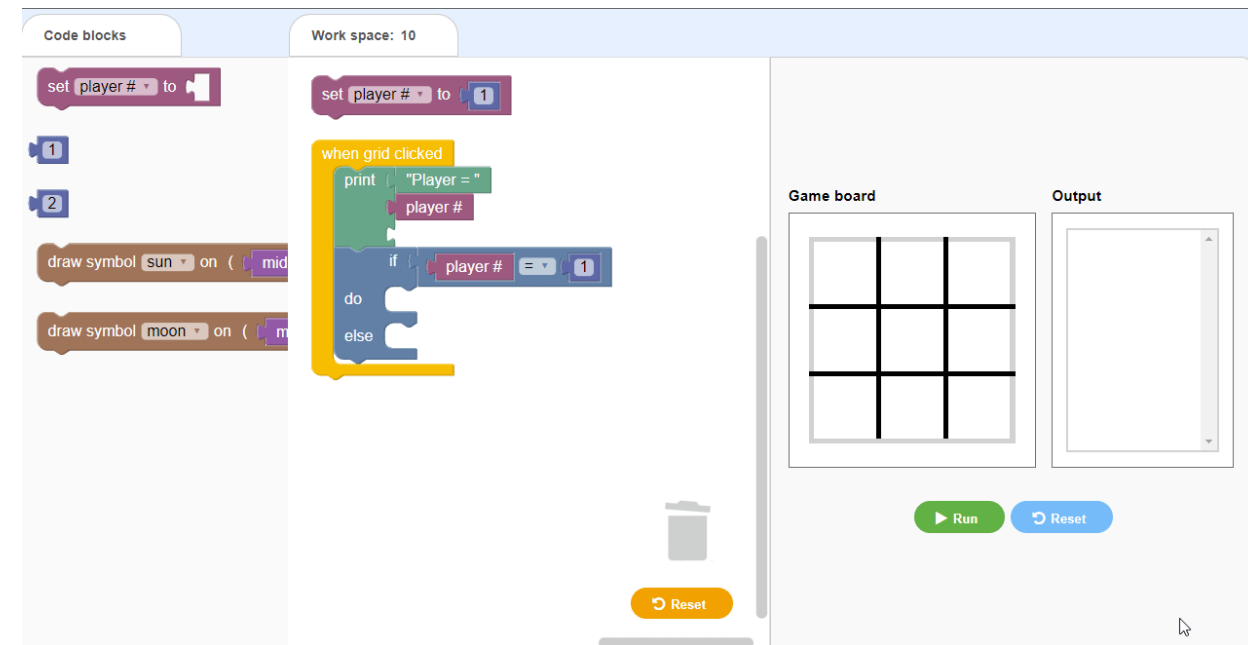
Country participation

35 countries/education systems

Austria, Azerbaijan, Belgium (Flemish), Bosnia and Herzegovina, Chile, Chinese Taipei, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany (with North Rhine-Westphalia as a benchmarking participant), Greece, Hungary, Italy, Kazakhstan, Kosovo, Latvia, Luxembourg, Malta, Norway, Oman, Portugal, Republic of Korea, Romania, Serbia, Slovak Republic, Slovenia, Spain, Sweden, The Netherlands, United States, and Uruguay



Main survey instruments and instrument preparation



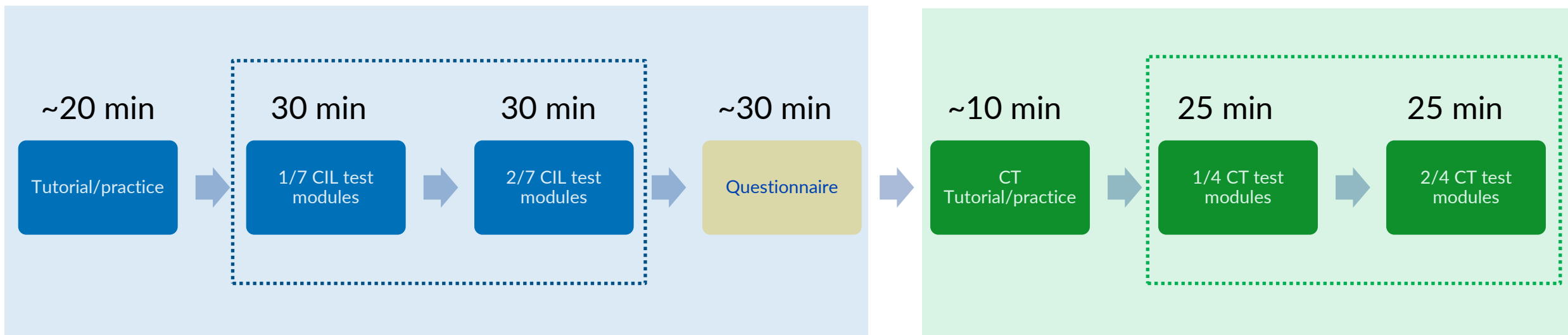
Student instruments

- Prepared and delivered using RM Assessment Master

CIL (core)

Break (15-45min)

CT (option)



7 CIL test modules
(4 trend and 3 new)

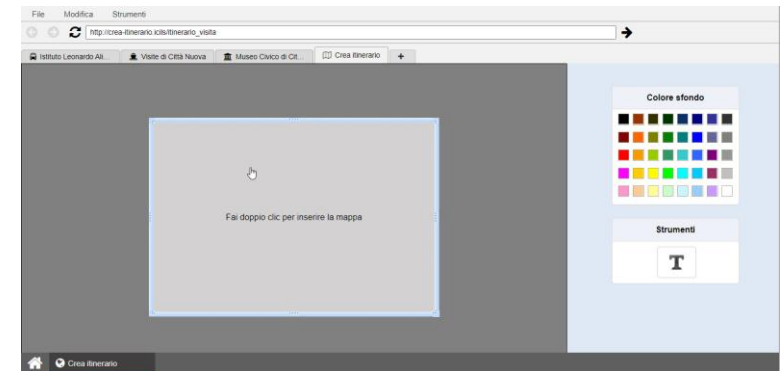
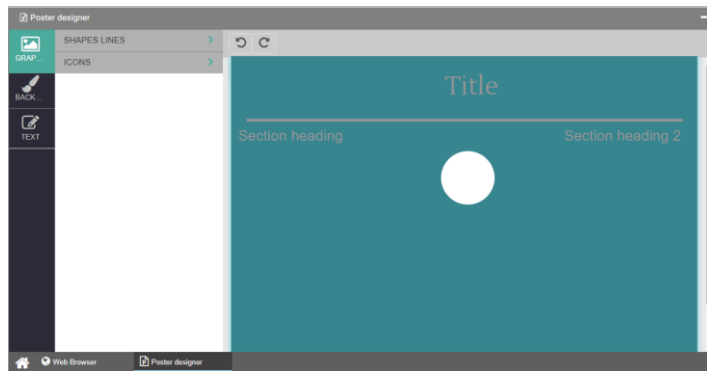
42 CIL only test forms

4 CT test modules
(2 trend and 2 new)

84 CIL+CT test forms

Main survey instrument release - student test

- Scheduled for 8 November 2022
 - Staged test module release schedule negotiated with RM
 - New test modules (5) released without field trial translations pre-populated
 - Trend modules (6) released with translations pre-populated
 - 8 out of 11 test modules released on 8 November
 - Tutorials and remaining 3 test modules released November 10-14



Main survey instrument release – student questionnaire

- MS Word text released on 8 November
- RM release in AM system was delayed by one month
 - IEA Hamburg took on the role of implementing structural adaptations
 - Ultimately (because of the work of staff at IEA Hamburg) the process of questionnaire preparation was faster and more efficient than it otherwise might have been

The screenshot shows a digital questionnaire interface. At the top, the title is 'Your General Use of ICT'. Below the title, the question asks: 'Do your parents or guardians place a limit on the amount of [screen time](time you are allowed to be looking at screens) (e.g., computer, tablet device, phone and television) when you are not at school?'. A note below the question says: '(Please mark one choice for school days and one choice for non-school days)'. The response options are presented in a table with two columns: 'On school days' and 'On non-school days (e.g., weekends and holidays)'. There are three rows of options, each with a radio button for each column. The first row is 'Yes – and it includes the time I spend doing schoolwork on a screen'. The second row is 'Yes – but it does not include the time I spend doing schoolwork on a screen'. The third row is 'No – there is no limit'. At the bottom of the form, there is a navigation bar with a left arrow, the text 'Please complete the question(s) and click on Ⓞ to continue.', and a right arrow.

	On school days	On non-school days (e.g., weekends and holidays)
Yes – and it includes the time I spend doing schoolwork on a screen	<input type="radio"/>	<input type="radio"/>
Yes – but it does not include the time I spend doing schoolwork on a screen	<input type="radio"/>	<input type="radio"/>
No – there is no limit	<input type="radio"/>	<input type="radio"/>

Main survey instrument release (adult questionnaires)

- Teacher, ICT-coordinator and principal questionnaires released, as scheduled, on 8 November 2022 (IEA OSS)
- National Contexts Survey released online, as scheduled, on 7 July 2023 (one survey per national center)



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Main survey data collection – current status

Main survey – current status


- Data collection complete in Northern Hemisphere countries
 - Data submitted by most NH countries - currently being cleaned and processed
 - Data collection in SH countries began in September 2023

Movement sensor simulator

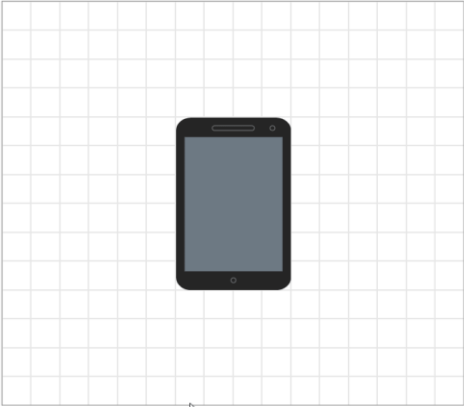
Movement pattern buttons

Start Pattern 1 Start Pattern 2 Start Pattern 3
Start Pattern 4 Start Pattern 5 Start Pattern 6

Movement chart



Virtual smartphone



The app needs to get data from the smartphone's movement sensor. This is a movement sensor simulator for a smartphone. Click the movement pattern buttons to see the smartphone move and its movement data plotted on the movement chart.

Which direction of movement is plotted by each line in the movement chart? Use the drop down menus to show your answer.

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- - - -
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Main survey data collection issues and resolutions

- *12 April 2023* – RM outage (affecting ICILS online testing only) affected four countries
 - very serious impact in one country (50 schools)
 - Countries rescheduled sessions where possible
- *20 April 2023* – Ransomware attack on IEA OSS servers (affected server hosting ICILS adult questionnaires)
 - Data submitted during 8.5 hour period (4.30 to 13.00 CEST on 20 April) were not recoverable
 - No data were leaked
 - The OSS server was offline for 3 days
- *RM local server issue failure* – affected three countries, two of which had local server as main delivery mode, one of these was able to switch to online data collection
 - Some data loss in affected countries, IEA Executive and Technical Executive Group informed of issues



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Reflections on main survey data collection

Summary evaluation of changes in study administration

- New RM project management structure did seem to result in greater efficiency
- RM promises of greater independence of projects within AM did not result in clear improvements
- Increased staffing and changes to adaptation workflow at IEA improved instrument preparation
- Pre-verification corrections to known layout issues reduced layout verification workload
- IEA Hamburg implementation of structural adaptations greatly reduced processing time
- Most countries were able to begin testing in late April/early May which had a positive effect on implementation overall

Main survey data collection – late inclusion “ChatGPT or similar tools”



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Addressing the issues around the use of ChatGPT in schools through questionnaires in the International Computer and Information Literacy Study (ICILS) requires a comprehensive and thoughtful approach.

(ChatGPT [Default (GPT-3.5)], 28/08/2023)

Main survey data collection – late inclusion ChatGPT or similar tools (1)

- ChatGPT launched on 30 November 2022
- In June 2023 we made the decision to offer ICILS 2023 countries the opportunity to collect data dealing with the early experiences of “ChatGPT or similar tools” in schools
 - National option for principal questionnaire
 - NH – to be completed using new URL by principals of sampled schools
 - SH – to be added as final questions in principal questionnaire
 - 12 participants have accepted the option

Main survey data collection – late inclusion ChatGPT or similar tools (2)

- Questions address:
 - Principals' use of ChatGPT or similar tools
 - The existence of and plans for policies and recommendations regarding the use of ChatGPT or similar tools
 - Receipt of information from authorities about the use of ChatGPT or similar tools
 - Permission to use ChatGPT or similar tools for teachers and students
 - Principals' perceptions of the extent of use of ChatGPT or similar tools by teachers and students
 - References to ChatGPT or similar tools in curricula
 - Principals' perceptions of the possible impacts of the use of ChatGPT or similar tools on student learning
 - Principals' perceptions of the possible impacts of the use of ChatGPT or similar tools on the work of teachers



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Next steps

Next steps

- Main survey implementation (Southern Hemisphere) - September to November 2023
- Assessment framework publication - December 2023
- Data cleaning, adjudication, weighting, scaling and analysis - ongoing to February 2024
- Planned release of draft IR tables to countries - early April 2024
- Planned release of draft IDB to countries - early May 2024
- International report development - November 2023 to July 2024
- NRC Meeting 5 (review of draft main survey report) - June 2024 (Taipei)
- International report finalization - July to September 2024

International report release
12 November 2024
Save the date

- Updated ICILS 2023 technical report and database release - March 2025
IEA GA 64: 25-28 September 2023, Versailles France

The ICILS international report series (1)

- Recently discussed at an ad-hoc meeting of ICILS NRCs
 - Ongoing consultation with NRCs and study centers
 - Series release titles and schedule to be confirmed by the end of 2023
- The ICILS 2023 first international report will focus on reporting country contexts for the CIL and CT education, student achievement outcomes (including trends) and explanations of variations in these outcomes
- Subsequent reports in the series (to be released at approximately 3-6 monthly intervals) will be thematically-based

The ICILS international report series (2)

- Current draft proposed themes:
 - Changes in CIL and CT learning across a decade
 - Teaching with and about technology
 - School leadership for technology
 - The digital divide
 - Teacher professional learning and ICT
- The sum of the report series will greatly exceed the breadth and depth of content presented previously in the single international reports



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ICILS 2028

ICILS 2028

- Initial planning has begun
 - Timelines, development plans, content development
- Exploring options for delivery platform/system
 - Performance by RM in ICILS 2023 was unsatisfactory
 - Exploring a range of technical solutions including integration with the IEA Study Expert suite
 - Different levels of integration are being explored
 - Evaluation of solutions (including development of proofs of concept) until mid-2024
 - Outcomes to be announced at IEA GA 65



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Thank you

Questions?

