

A background image showing a group of diverse students in a classroom setting, sitting at desks and using laptops. The image is slightly blurred to emphasize the text overlay.

 IEA
ICILS
2028

ICILS 2028

65th IEA General Assembly 2024

Tbilisi, Georgia

Julian Fraillon

 IEA

Why participate in ICILS 2028?

ICILS **directly** measures and reports on fundamental digital competencies for participation in the digital world including (CIL)

- Adaptable technical use skills based on understandings of technological conventions
- Essential life skills associated with searching for, accessing and managing digital information
- 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
- Information evaluation (critical thinking) skills in a time ever increasing access to information from known and unknown sources

Why participate in ICILS 2028?

ICILS **directly** measures and reports on fundamental digital competencies for problem-solving in a digital world including (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

Why participate in ICILS 2028?

ICILS is the **only** international large-scale assessment that:

- focuses **solely** on digital literacy education (CIL and CT)
 - framework development
 - research questions
 - conceptualization of contexts for digital literacy learning
- collects extensive contextual data from students, teachers and schools solely targeting teaching and learning with and about technology
- provides measures including described achievement scales that can be used to monitor changes in students' digital literacy achievement over time (**trends**).

Why participate in ICILS 2028?

ICILS provides objective reliable, cross-nationally comparable and actionable data that can be used to:

- Monitor progress towards achieving nationally specified and/or internationally defined digital literacy education goals such as:
 - Progress toward UN Sustainable Development Goal 4 Indicator 4.4.1 (the proportion of youth/adults with ICT skills)
 - The target laid out in the European Commission's *Digital Education Action Plan (2021–2027)* to reduce the proportion of eighth-grade students with CIL below Level 2 to less than 15 percent by 2030
- Make informed decisions about how best to prepare students for life in an age of constantly evolving digital technologies.
- Be a part of a growing data source on the contexts and outcomes of CIL and CT-related education programs.
 - ICILS 2013: 21 participating education systems
 - ICILS 2018: 13 participating education systems
 - ICILS 2023: 35 participating education systems

About ICILS 2028

Similar in ICILS 2028 to previous cycles

- **Tests of CIL and CT (national option)**
 - Newly developed test content to maintain currency
 - Use of secure materials to support reporting of trends
- **Participants and sampling**
 - Students in Grade 8 (or equivalent)
 - At least one randomly sampled class from each school
 - Teachers of Grade 8
 - Randomly sampled from each participating school
 - School principals and ICT coordinators from each participating school
 - National Study Centers
- **Project leadership and management structure**
- **Extensive collaboration with national centers and (other) experts**

New in ICILS 2028

Instrument preparation and delivery

- IEA Study Expert platform will be used exclusively for all instruments:
 - Instrument preparation (adaptation and translation)
 - Instrument delivery
 - Scoring
- In 2024, the Study Expert team have been instantiating existing ICILS test content in the Study Expert system
 - One CIL and one CT trend module are already able to be translated and delivered in Study Expert

New in ICILS 2028

- **New focus areas**

- Approaches to teaching with technology (2023)
- School leadership for technology (2023)
- The use and impact of AI
- More to be discussed at NRC Meeting 1

- **New questionnaire content**

- Uses of AI in teaching and learning
- Attitudes towards AI use
- Uses of AI at school and outside of school
- Plans, policies and support regarding the uses of AI in schools
- AI in curriculum
- Infrastructure and resources for AI use in schools

New in ICILS 2028

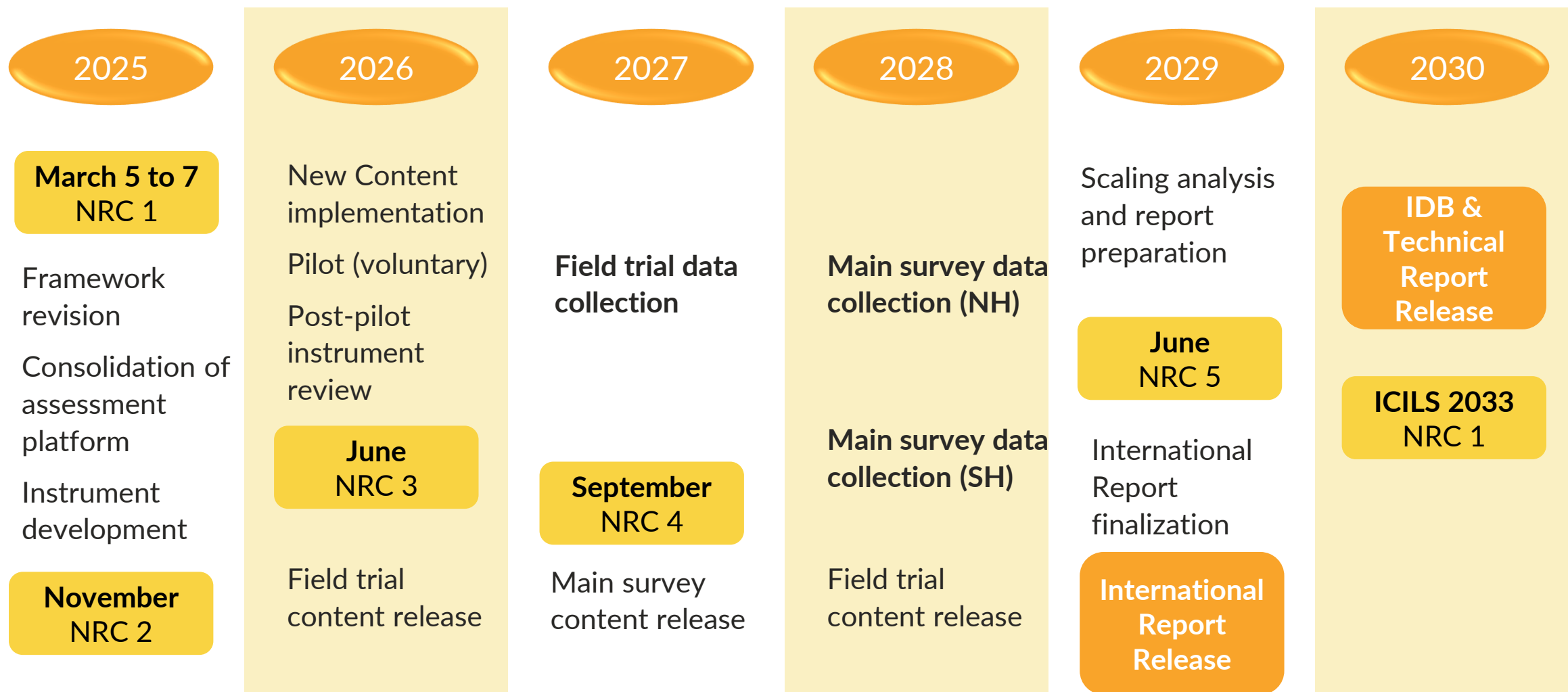
- **AI literacy in CIL**

- Use of AI tools to generate content (e.g. in large tasks)
- Use of AI tools to transform content
- Prompt literacy (accuracy and refinement)
- Evaluation of relevance and accuracy of AI generated content

- **AI literacy in CT**

- Use of AI tools to summarize/describe problems
- Use of planning tools to design AI agent workflows
- Use of AI tools to generate workflows for solutions
- Use of AI to evaluate solution plans
- Use of AI tools to generate code
- Use of AI tools to evaluate code
- Evaluation accuracy and efficiency of AI generated content

ICILS 2028 Timeline Overview





Thank you

j.fraillon@iea.nl

icils@iea.nl

icils@iea-hamburg.de

