



IEA Hamburg Developments

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IEA Hamburg Developments 2024 - 2025



Highlights International Studies (IEA & non-IEA)



Highlights National Studies



Ensuring New Projects: Proposal Writing



Capacity Building & Dissemination



Technical Developments & Innovation



Harmonization Project

Highlights International Studies

Celebrating finished studies

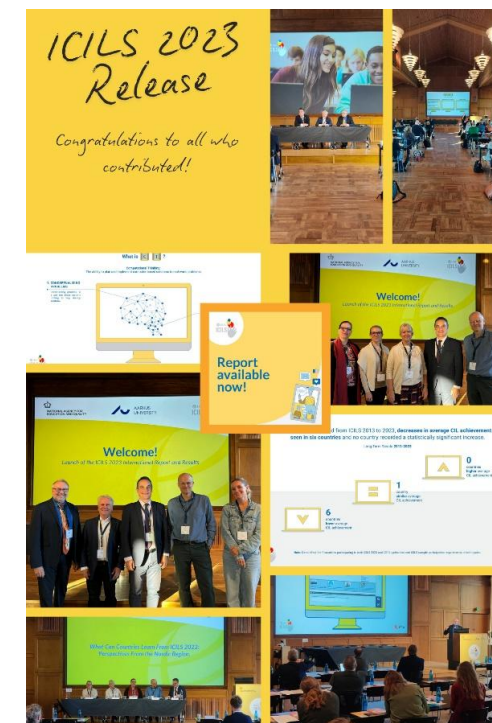
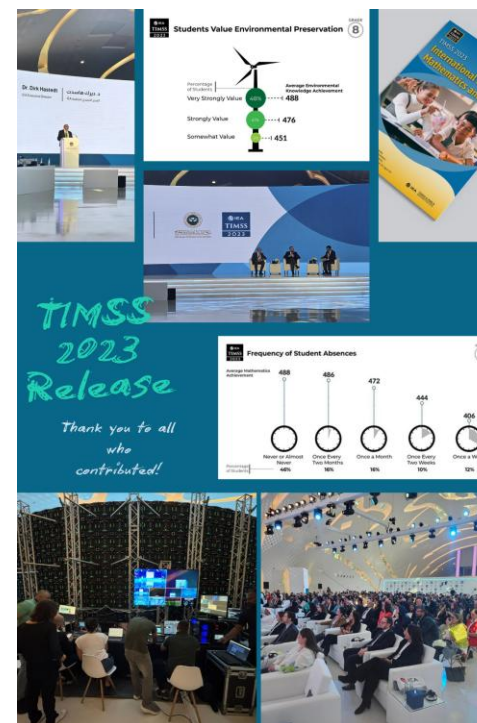
ICILS 2023

TIMSS 2023

LaNA 2023 Linking Study

PIAAC Cycle 2, Round 1

UNICEF LSCE Phase II



Highlights International Studies (cont.)

Busy with ongoing

TIMSS Longitudinal to be released soon
PIRLS 2026 preparing for main data collection
ICCS 2027 preparing for field trial
TIMSS 2027 preparing for field test
ICILS 2028 development stage
LaNA recruitment phase

TALIS 2024 to be released this week
IELS 2025 preparations for reporting
PASEC collecting main data
TALIS+ preparing for main survey

Excited about new studies

PIAAC+ preparing new round
PISA 2029 Sampling project kick-off



Highlights National Studies

Celebrating finished studies

TIMSS 2023
 ICILS 2023
 TALIS Starting Strong 2024

Excited about new studies

Evaluation Startchancen Programm
 Safe! University of Ulm
 IQB StarS pilot studies

Busy with ongoing

IGLU (PIRLS) 2026 main data collection
 TIMSS 2027 field test
 ICCS 2027 field trial
 PISA 2025 main survey
 IQB BS several standardizations
 NEPS A106 continuation
 TOSCAneo extension approved

	paper																digital					
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
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4																	pilot	standardization	BT PRIMAR			
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StarS

BT Primar

BT Sprachen

BT NaWi

Language, Mathematics, Self-regulation, Motivation (same children)

German, Mathematics

German, English, French

Mathematics, Biology, Chemistry, Physics

Ensuring New Projects: Proposal Writing

- Public tenders have become the primary pathway for international and national studies
- Highly formalized procedures, often detailed specifications, strict compliance, and close collaboration of contributors necessary
- Cross-unit collaboration is key — from research and project management to ICTS, finance, and data security teams



Each successful tender strengthens IEA's visibility, builds institutional know-how, and opens new global partnerships.

 **14 public tenders** Oct 2024 to Jun 2025 (more until today)

 **Contract values:**
USD 14 k to EUR 7 million

 **Proposal timelines:**
2–6 weeks submission windows

 **16+ colleagues** worked on one major proposal

 **PISA 2029 Core C**
technical proposal: 54 pages

 **Evaluation Startchancen Programm** proposal:
20 documents, 5 partner organizations, ~200 pages



Capacity Building & Dissemination

Training & Support

- Delivered in **NRC** meetings
- Conducted **IDB** workshops & data management seminars
- Supported **policy brief** workshops

Research & Methodological Workshops

- **Workshops** at international conferences (IRC, ECER, CIES, AERA) on MLM, IRT

Publications & Dissemination

- Supported with analyses for **press releases**
- Presented **research papers** at conferences
- **Published 36!** papers over the last year



Workshops and Conferences

The unit organized and conducted 8 workshops and delivered 20 conference contributions associated with IEA's ongoing projects, aiming to enable external researchers to properly use data collected in IEA and other large-scale assessment studies. All conference submissions undergo a rigorous internal review process, and all presentations are refereed. These measures ensure the highest quality of externally visible contributions and help strengthen the IEA's reputation.

Below is the list of workshops conducted by IEA staff in the reporting period:

Table 1: List of workshops conducted by IEA during the reporting period

Conference title (if valid)	Workshop Title	Date	Location
ECER 2024	ICCS 2022 – How to Analyse Secondary Students' Civic Knowledge and Attitudes Towards Democracy	Aug 2024	Nicosia, Cyprus
TIMSS NRC Meeting	TIMSS 2023 IDB Workshop	Feb 2025	Hamburg, Germany
LUNA Meeting	Writing policy briefs with LUNA	Feb 2025	Dakar, Senegal
ICILS NRC Meeting	ICILS MLM Workshop	Mar 2025	Hamburg, Germany
AERA 2025	Multilevel Modeling with International Large-Scale Assessment Datasets Using R	Apr 2025	Denver, Colorado, USA
TALIS NPM Meeting	TALIS 2024 Analysis Workshop	May 2025	Hamburg, Germany
IRC 2025	Methods for Causal Inference with Observational Data from International Assessments	Jun 2025	Rome, Italy
IRC 2025	Item Response Theory and Population Modelling in Large-scale Assessments	Jun 2025	Rome, Italy

Unit members delivered the following conference presentations:

1. Atasever, U., Huang, F., & Rutkowski, L. (2024). Utilizing R for Simulating Studies in International Large-Scale Assessments in Education. Presented at Use of R Conference, Athens, Greece.
2. Atasever, U., Cortes, D., & Melina, S. (2025). An Examination on the Performance of Variance Estimators. Presented at IEA 2025 (Europe), Northumbria.

Technical Developments & Innovation

StudyExpert

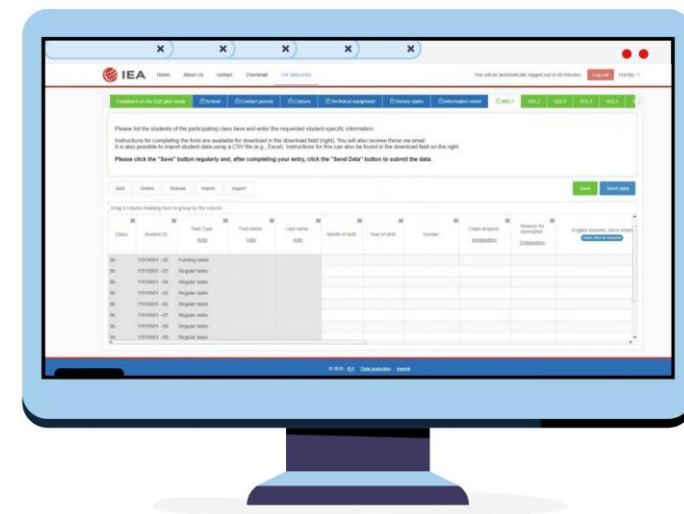
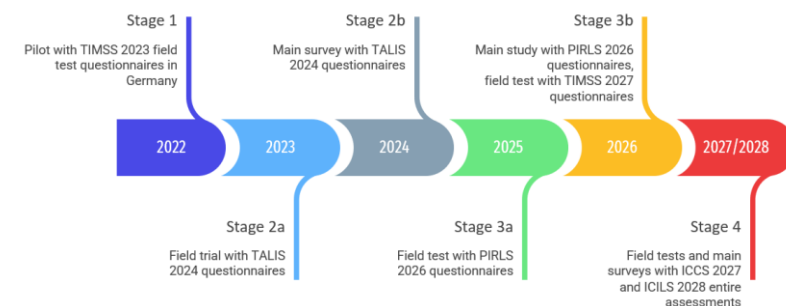
- Further developed and rolled out in several studies

OSE International

- Preparation to replace **WinW3S** to digitalize school, class, and student listing, sampling, and tracking

Data Processing

- Switch from internal SQL-based DPE to R



Technical Development Innovation (cont.)

IT Security

- Received official BSI Testat
- Continuation towards a certificate



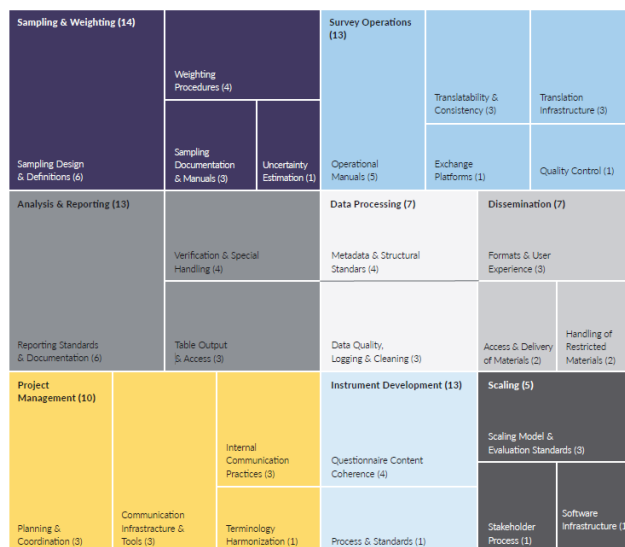
AI

- Annual trainings on AI usage
- Regular exchanges amongst colleagues on day-to-day use cases
- Small project experiments with training videos for test administrator trainings
- R&D funded project works on a Retrieval-Augmented Generation (RAG) system to improve access to IEA documentation and project knowledge



Harmonization Project

- Various stakeholders were surveyed to identify topics to be investigated
- Steering Committee was established to meet twice a year and discuss harmonization opportunities



Several initiatives are already in progress



Project management

Aligning SharePoint site structures across studies to streamline communication



Sampling & weighting

Working on definitions to reduce within-school exclusions and improve inclusivity



Survey operations

Comparing operational manuals, starting with school coordinator manuals



Instrument development

Increasing coherence of demographic questions; introducing AI-related items across studies



Data processing

Evaluating consistency checks to standardize quality control



Analysis & reporting

Drafting common reporting standards and testing shared tools for technical reports



Dissemination

Moving towards more aligned online formats

Looking Ahead

In the spirit of IEA's new Chair: Together we advance through Consolidation, Implementation, and Participation.



- Continued innovation in study designs and technology
- Consolidation of expertise across studies (harmonization, StudyExpert, IEA OSE)
- Implementation of (flagship) projects
(e.g., IEA studies, but also Evaluation Startchancen Programm and PISA 2029 Sampling)
- Active participation in global research and policy exchange
(participation at research conferences, Compass Briefs, new collaborations)



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