

IEA Hamburg Developments

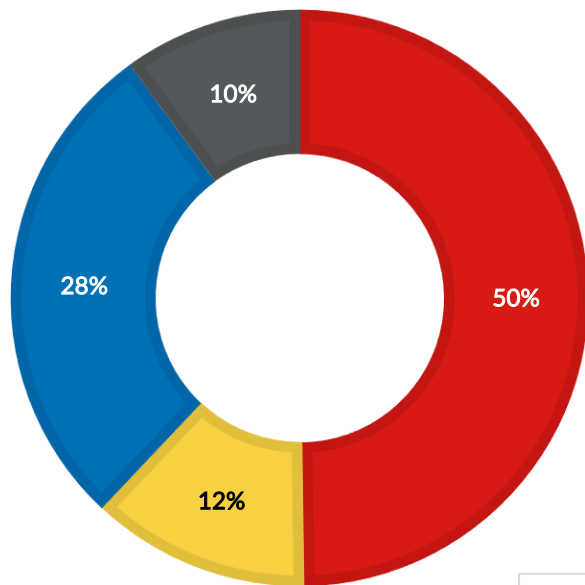
65th IEA General Assembly

Juliane Hencke, IEA Hamburg

პატივცემულო GA-ს
წევრებო, ძვირფასო
მასპინძლებო,
ძვირფასო სტუმრებო
p'at'ivtsemulo GA-s
ts'evrebo, dzvirpaso
masp'indzlebo,
dzvirpaso st'umrebo

Our Daily Work

Distribution of expenditures



International IEA studies
International non-IEA studies
National studies
General/IERI/R&D

Studies in 2023/2024

International Studies

Finished

- IEA PIRLS 2021
- IEA ICCS 2022
- National Evaluation Haiti 2022

Ongoing

- IEA TIMSS 2023
- IEA TIMSS Longitudinal
- IEA ICILS 2023
- IEA LaNA
- OECD TALIS 2024
- OECD PIAAC Cycle 2
- OECD IELS 2025

Newly started

- IEA PIRLS 2026
- IEA ICCS 2027
- UNICEF LSCE Phase II
- CONFEMEN PASEC
- OECD TALIS+

Potentially coming

- PIAAC Cycle 2, Round 2 (tbd)
- PISA 2029 Sampling (Core C) (in proposal writing)

National Studies

Finished

- Monitoring of Educational Standards 2022
- PISA-LDW (PISA 2022)
- Evlk
- FIPS+
- SchiWa
- KWiK

Ongoing

- IEA TIMSS 2023
- IEA ICILS 2023
- INSIDE II
- NEPS
- PerFair
- OECD TALIS Starting Strong 2024
- TOSCAneo

Newly started

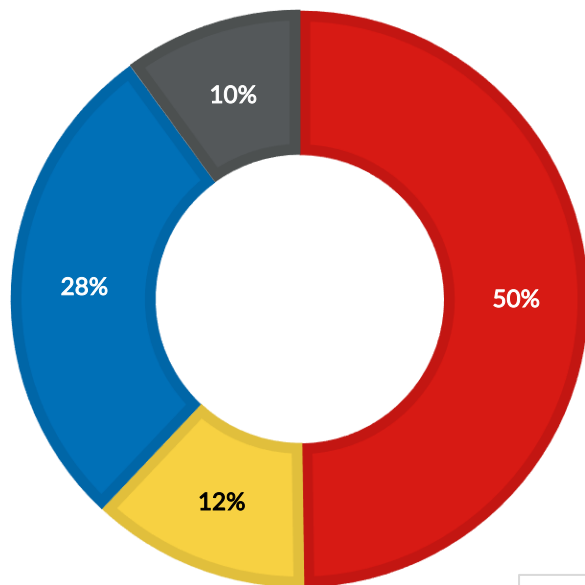
- Monitoring of Educational Standards/ IQB Trends in Student Achievement 2024
- IQB Pilot Study 2024
- OECD PISA 2025
- IGLU 2026

Potentially coming

- Startchancen – Program Evaluation (proposal handed in)
- IQB „StarS“ (Start strong into primary school) (CfT expected)

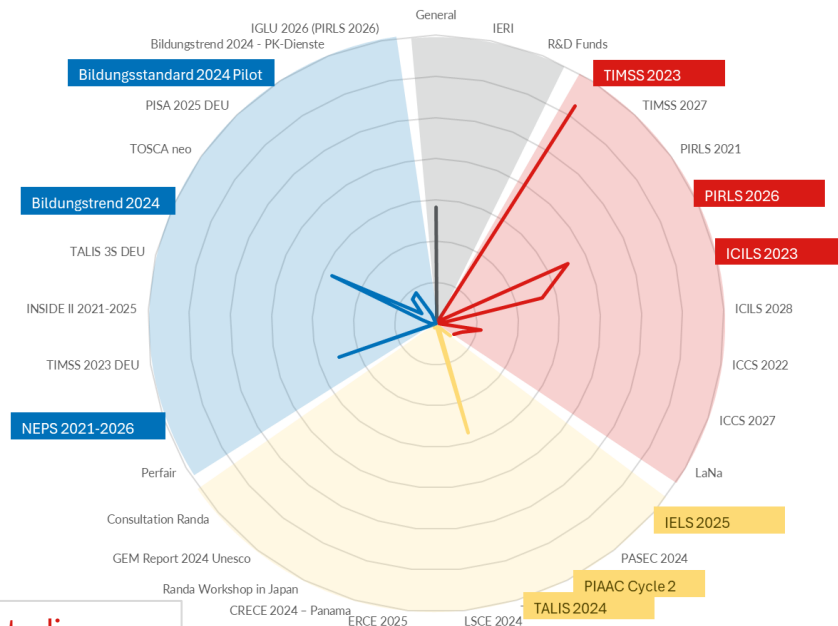
Our Daily Work

Distribution of expenditures



International IEA studies
International non-IEA studies
National studies
General/IERI/R&D

Magnitude of the studies



Software Developments, Working Groups, Projects

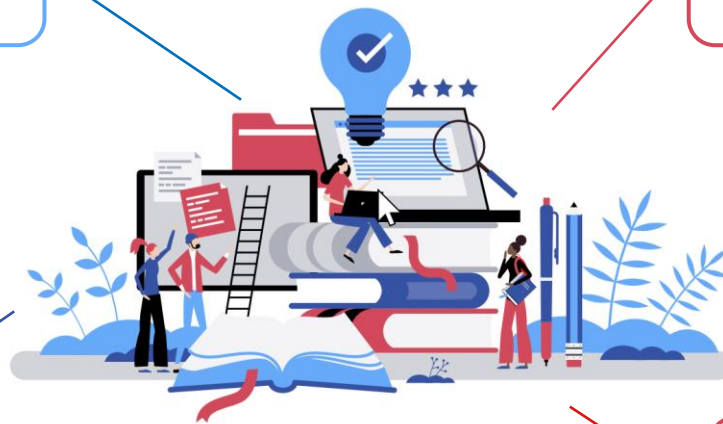
Software Developments
(StudyExpert, OSE)

Working Group
Data Processing

Working Group
AI

Working Group
IT Security

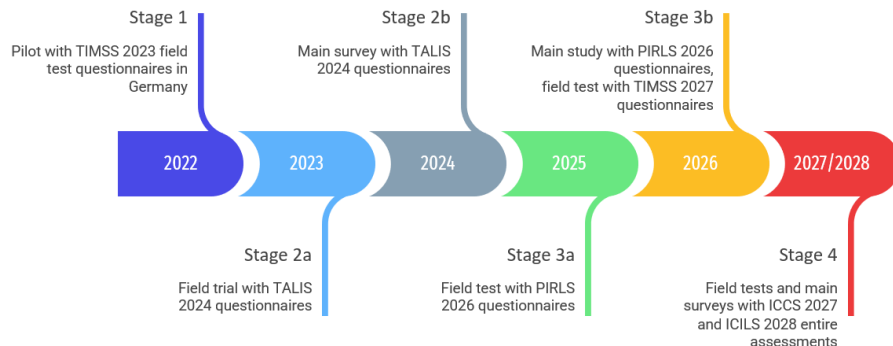
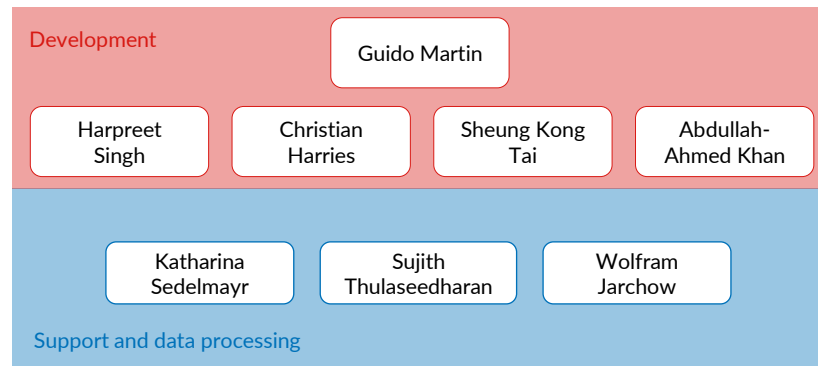
Harmonization Project



Further Developments IEA StudyExpert

- TALIS 2024 almost completed
- For questionnaires
 - In use for TALIS+
 - In use for PIRLS 2026
 - Planned for TIMSS 2027
- For questionnaires and assessment
 - In preparation for ICCS 2027
 - In development for ICILS 2028

The team behind the StudyExpert:



Working Group on WinW3S → OnlineSurveyExpert

- WinW3S has been used since decades, but becomes more and more outdated
- OSE was developed for the national context and does similar things (school, student, teacher listing and tracking, within school sampling, ...)
- Working group currently
 - Identifies requirements to adjust OSE for a potential use in our international studies
 - Explores when to switch from WinW3S to OSE



6. Namensliste erzeugen

Durch das Klicken des Buttons [1] Namensliste erzeugen erhalten Sie ein PDF-Dokument, das alle durch Sie eingegebenen Namen mit den dazugehörigen IDs enthält. Bitte drucken Sie die Namensliste aus und halten Sie diese am Testtag bereit.

7. Gesamte Tabelle exportieren

Durch das Klicken des Buttons [2] Tabelle exportieren erhalten Sie ein HTML-Dokument, das alle eingegebenen Informationen der entsprechenden Registerkarte enthält. Das Dokument können Sie sich für Ihre Unterlagen abspeichern.



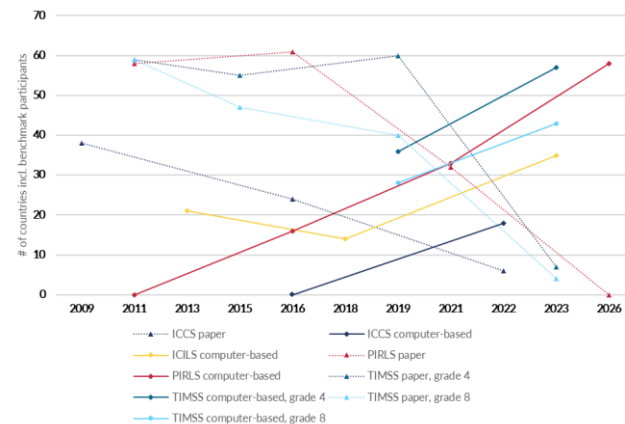
Grundfunktionen der Webanwendung

IEA OnlineSurveyExpert (IEA OSE) ist ein Online-Studiensystem für die Erfassung schulischer Angaben, das im Rahmen verschiedener Bildungsstudien zur Übermittlung von Daten eingesetzt wird.

Mit Hilfe von IEA OSE können Sie Informationen schnell und sicher an uns übermitteln.

Working Group on Data Processing

- Transition from paper-and-pencil to computer-based assessments require adequate data collection and processing methods
- To address several challenges that come with the transition, a new data processing tool is developed
- External support was brought in
- Working group has started its work intensively over the past months
- Move from data processing in SQL to R was decided
- Move to new tool takes place in parallel strands



Working Group on AI

- Guidelines for staff published
- Exchange amongst staff on experiences with using AI initiated
- Collected information from working units on what AI tools are used for what and intended for use in future
- In use to support record transcriptions and minutes taking, code verification, improve writing, translations, ...
- Project proposal process developed



- ## Planned AI projects

Done: Evaluating deterministic and stochastic methods for application-oriented machine learning

Exploring machine-learning based options for assessing translation quality

Next year: explore data pattern detection using AI

Implementation of a Retrieval-Augmented Generation (RAG) system to enhance the retrieval of information from key IEA documents

Creating AI-based videos for training test administrators and school coordinators

Working Group on IEA IT-Security

- OSE has been checked for security (penetration test) by an external expert
- Lessons learnt from this led to development of IEA IT-Security Guidelines for our software and raised awareness amongst staff
- Information security officer heads for „BSI“ certification in next year (standard for IT security in companies; compatible to ISO 27001)



Harmonization Project

- Initiated after the last Standing Committee Meeting before the GA (in Versailles)
- Project lead: Juliane Hencke
Extended board: Julian Fraillon, Heiko Sibberns, Eva Feron, Lauren Musu, Matthias von Davier
- Project initialization finished (introduced to SC, Study Directors)



Stage I:
Initialize Project



Stage II:
Determine Status Quo



Stage III:
Evaluate Status Quo



Stage IV:
Implement Harmonization

- Many potential content areas encompassing the entire study life cycle

Category I (aligned aspects):

includes aspects that are already aligned across IEA studies

Category II (justified differences):

encompasses issues that, while different, have strong rationales for their variation

Category III (potential harmonization opportunities):

targets areas where harmonization could be implemented, pending a thorough evaluation of the impacts of these changes on time and costs

- First concrete areas and steps identified

Thank you!
მადლობა

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Researching education, improving learning