

ICILS Progress Report

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What is CIL?

Computer and information literacy refers to an individual's ability to use computers to investigate, create and communicate in order to participate effectively at home, at school, in the workplace and in the community.

Strand 1

Collecting and managing information

Aspect 1.1

Knowing about and understanding computer use

Aspect 1.2

Accessing and evaluating information

Aspect 1.3

Managing information

Strand 2

Producing and exchanging information

Aspect 2.1

Transforming information

Aspect 2.2

Creating information

Aspect 2.3

Sharing information

Aspect 2.4

Using information safely and securely

Summary Research Questions

1. What variations exist between countries, and within countries, in student computer and information literacy?
2. What aspects of schools and education systems are related to student achievement in computer and information literacy?
3. What characteristics of students' technological backgrounds are related to student achievement in computer and information literacy?
4. What individual/personal student characteristics are related to student achievement in computer and information literacy?

Progress

- **Jan 2011**
 - NRC Meeting 2: Hamburg, Germany
 - Feedback on instruments and assessment framework
- **Feb-June 2011**
 - Refinement of assessment framework and instruments
 - Development of new test module (After-School Exercise)
 - Development of draft Survey Operations Procedures (SOP) Manuals 2 and 3 (Working with Schools and Instrument Preparation)
 - Development of online translation platform for student instruments

Progress

- **Late June 2011**
 - NRC Meeting 3: Ljubljana Slovenia
 - Feedback on instruments and procedures
- **July 2011**
 - Finalisation of field trial instruments and SOP 2 & 3
- **August 22, 2011**
 - Release of field trial instruments for translation/preparation to 19 countries

ICILS Countries

- Canada, Chile, Croatia, Czech Republic, Denmark, Germany, Hong Kong, Israel, Lithuania, Netherlands, Norway, Poland, Russian Federation, Slovak Republic, Slovenia, Spain, Switzerland, Thailand and Turkey
- A small number of additional countries are still considering joining ICILS.

Progress

- **September 5, 2011**
 - Release of USB compatibility test software
- **October (mid) 2011**
 - Release of draft SOP 4 and 5 (Data Collection and Quality Monitoring Procedures and Scoring Student Responses)
 - Draft ancillary manuals include School Coordinator Manual, Test Administrator Manual, Scoring Software Manual
- **November 28 – December 4, 2011**
 - Field operations and scorer training meeting, Hamburg
- **February to April 2012**
 - Field trial data collection

Student test

- Computer based
- Four 30 minute modules
- Each student completes two modules
- Fully balanced rotated design
- Authentic tasks: small and large
- School-based contexts (subject-based and other)
- Emulated and 'live' software applications

Test Modules

How People Breathe

students manage files, collect information and create a presentation to explain breathing to 8 or 9 year-old students.

School Trip

students help plan a school trip using online database tools and produce an itinerary including a web-based map.

Test Modules

Band Competition

students plan a website, edit an image and use simple website builder to advertise a school band competition.

After-school exercise

students evaluate a set of source information against given criteria to select an after-school exercise program and use selected information to create an advertising poster for the selected program.

Student questionnaire

- Background characteristics
- Computer use
 - audit (in and out of school) of software contexts and purposes
 - perceptions and attitudes (including self efficacy and confidence)

Teacher questionnaire

- Background characteristics (including what they teach)
- Confidence in using computers
- Use of computers in teaching (software types, student and teacher activities)
- Attitudes to the usefulness of computers in teaching/learning
- Influences on computer use (impediments, professional learning opportunities etc)

School questionnaires

- ICT-coordinator
 - Background/personal characteristics
 - Infrastructure and software resources available for teaching and learning in the school
 - Influences on computer use by staff (professional learning opportunities and obstacles)

School questionnaires

- Principal
 - Principal characteristics and ICT experience/use
 - School characteristics
 - School ICT policies including how they are made
 - Extent of teacher participation in professional learning

National Contexts Survey

- Due for release in mid 2012
 - System-level policy for ICT in schools
 - System-level practices for ICT in schools



Thank you



Secretariat



The Australian Council *for* Educational Research

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