



National Academy of Education

Workshop Series on Methods and Policy Uses of International Large-Scale Assessments (ILSA)

Workshop II: Reporting, Interpretation, and Policy Uses

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September 16, 2016

International Assessments

PIRLS, TIMSS

4th grade
Reading,
mathematics,
science

iELS

Kindergarten
Early learning

PISA

15-year-olds
Reading, mathematics, science,
periodically other subjects—
financial literacy, collaborative
problem solving

TIMSS, ICILS

8th grade
Mathematics, science,
computer and
information literacy

TALIS

Middle grades
Teachers and
teaching

TIMSS Advanced

12th grade
Advanced
mathematics and
physics

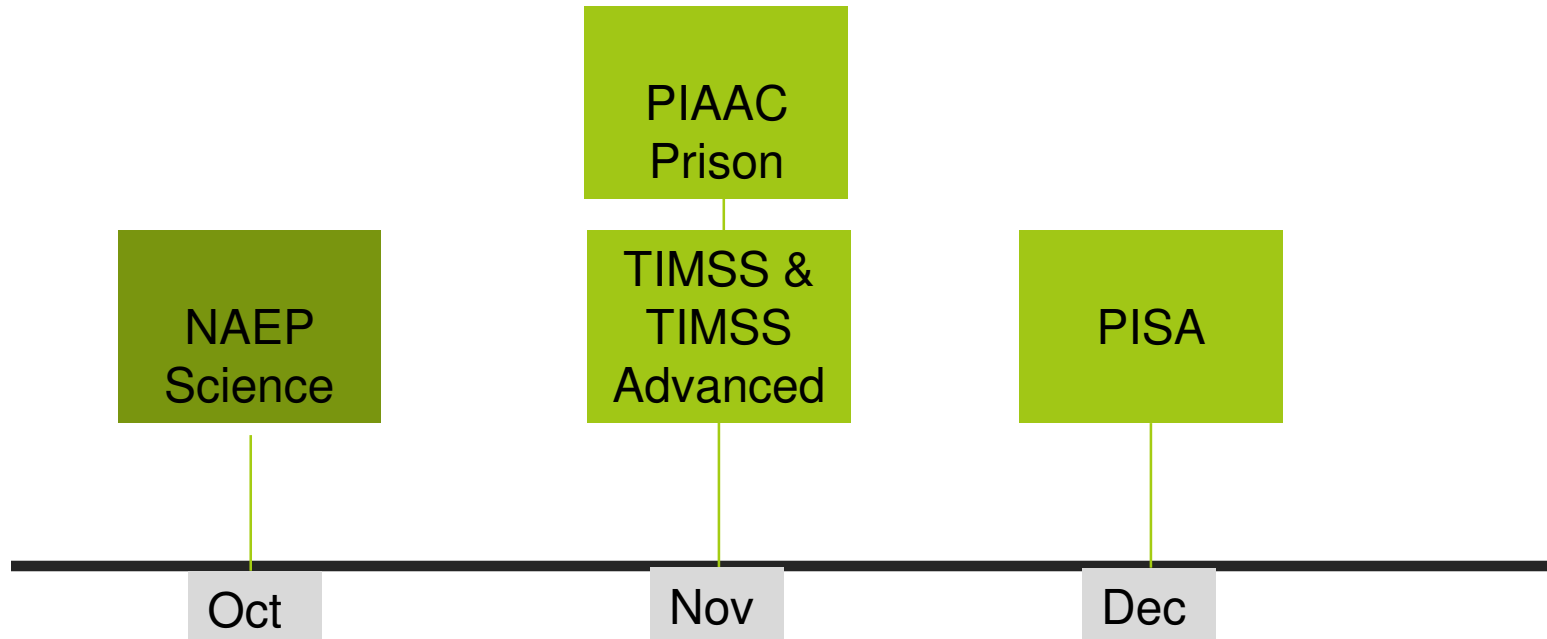
PIAAC

*Adults 16—
74+*

Literacy,
numeracy,
problem
solving,
outcomes in
employment,
income,
education,
health

2016
Q4

NCES Assessment Reports



LEGEND

-  NAEP Report Cards
-  International Reports

U.S. 15-year-olds below OECD average in mathematics literacy

| | | | | | |
|---------------------|------------|----------------------|------------|-------------------------|-----|
| Shanghai-China | 613 | Norway | 489 | Croatia | 471 |
| Singapore | 573 | Portugal | 487 | Israel | 466 |
| Hong Kong-China | 561 | Italy | 485 | Greece | 453 |
| Chinese Taipei | 560 | Spain | 484 | Serbia, Republic of | 449 |
| Korea, Republic of | 554 | Russian Federation | 482 | Turkey | 448 |
| Macao-China | 538 | Slovak Republic | 482 | Romania | 445 |
| Japan | 536 | United States | 481 | Cyprus | 440 |
| Liechtenstein | 535 | Lithuania | 479 | Bulgaria | 439 |
| Switzerland | 531 | Sweden | 478 | United Arab Emirates | 434 |
| Netherlands | 523 | Hungary | 477 | Kazakhstan | 432 |
| Estonia | 521 | | | Thailand | 427 |
| Finland | 519 | | | Chile | 423 |
| Canada | 518 | | | Malaysia | 421 |
| Poland | 518 | | | Mexico | 413 |
| Belgium | 515 | | | Montenegro, Republic of | 410 |
| Germany | 514 | | | Uruguay | 409 |
| Vietnam | 511 | | | Costa Rica | 407 |
| Austria | 506 | | | Albania | 394 |
| Australia | 504 | | | Brazil | 391 |
| Ireland | 501 | | | Argentina | 388 |
| Slovenia | 501 | | | Tunisia | 388 |
| Denmark | 500 | | | Jordan | 386 |
| New Zealand | 500 | | | Colombia | 376 |
| Czech Republic | 499 | | | Qatar | 376 |
| France | 495 | | | Indonesia | 375 |
| OECD average | 494 | | | Peru | 368 |
| United Kingdom | 494 | | | | |
| Iceland | 493 | | | | |
| Latvia | 491 | | | | |
| Luxembourg | 490 | | | | |

 Average higher than U.S. average

 Average not measurably different from U.S. average

 Average lower than U.S. average

Challenges for NCEs

- **Participation rates in assessments**
- **Resource limitations to meet demands**
 - **Small area estimates**
 - **State results**
 - **Reporting subgroups**
- **Transition to digital-based assessment**
- **Social media**