Progress Since Last General Assembly...

Completed development of seven assessments for TIMSS 2015

- TIMSS Numeracy – New for 2015!
- TIMSS 4TH grade mathematics
- TIMSS 4TH grade science
- TIMSS 8TH grade mathematics
- TIMSS 8TH grade science
- TIMSS Advanced – mathematics
- TIMSS Advanced – physics
TIMSS Numeracy 2015

- Better measurement for countries where many fourth grade students are still developing fundamental skills.

- Countries participating in TIMSS Numeracy will have their results reported on the TIMSS fourth grade mathematics scale.
  - Item blocks in common to link TIMSS Numeracy to the TIMSS scale
Across the Seven Assessments:

1. Finalized achievement items (1,067!) and questionnaires for field test
2. Conducted full scale field test $\approx 125,000$ students
3. Analyzed field test results and proposed final assessment instruments
4. NRCs reviewed and approved achievement items and questionnaires for 2014/5 data collection
Countries Participating in TIMSS 2015

Armenia 4, 8
Australia 4, 8
Bahrain 4, 8, Num.
Belgium (Flemish) 4
Botswana 9
Bulgaria 4
Canada 4, 8
Chile 4, 8
Chinese Taipei 4, 8
Croatia 4
Cyprus 4
Czech Republic 4
Denmark 4
Egypt 8, Num.
England 4, 8
Finland 4
France 4, A
Georgia 4, 8
Germany 4
Hong Kong SAR 4, 8
Hungary 4, 8
Indonesia 4, Num.
Iran, Islamic Rep. of 4, 8, Num.
Ireland 4, 8
Israel 8
Italy 4, 8, A
Japan 4, 8
Jordan 8, Num.
Kazakhstan 4, 8
Korea, Rep. of 4, 8
Kuwait 4, 8, Num.
Lebanon 8, A
Lithuania 4, 8
Malaysia 8
Malta 8
Morocco 4, 8, Num.
The Netherlands 4
New Zealand 4, 8
Northern Ireland 4
Norway 4/5, 8/9, A
Oman 4, 8
Palestinian Nat’l Auth. 8, Num.
Poland 4
Portugal 4, A
Qatar 4, 8
Russian Federation 4, 8, A
Saudi Arabia 4, 8, Num.
Singapore 4, 8
Slovak Republic 4
Slovenia 4, 8, A
South Africa 9, Num.
Spain 4
Sweden 4, 8, A
Thailand 8
Turkey 4, 8
United Arab Emirates 4, 8
United States 4, 8, A

Benchmarking Participants
Buenos Aires, Argentina 4, 8, Num.
Ontario, Canada 4, 8
Quebec, Canada 4, 8
Abu Dhabi, UAE 4, 8
Dubai, UAE 4, 8
Florida, USA 4, 8
3rd NRC Meetings, Budapest
TIMSS Advanced  November 6-8, 2013
TIMSS  November 10-15, 2013

• Reviewed draft achievement items for field test
  – TIMSS 4th grade mathematics and science (292 items)
  – TIMSS Numeracy (155 items)
  – TIMSS 8th grade mathematics and science (355 items)
  – TIMSS Advanced mathematics and physics (265 items)

• Reviewed draft questionnaires for field test
  – School, Teacher, Student – all grades
  – Home (4th grade only)

• Finalized national plans for field test sampling and data collection
• Constructed Response Scoring Training
  – All seven assessments, one by one!

• Sampling, operations, and quality control procedures
Field Test
March 1 – April 15

• 4th Grade
  – 54,678 students in 43 countries & 5 benchmarking entities

• 8th Grade
  – 51,994 students in 37 countries & 4 benchmarking entities

• TIMSS Numeracy
  – 4,522 students in 7 countries

• TIMSS Advanced
  – 11,922 students in 10 countries
3-Step Field Test Review Process

1. Internal review by expert consultants and staff of TIMSS & PIRLS International Study Center – June

2. Review by expert committees – July
   - SMIRC review of achievement items: mathematics, science, and numeracy
   - QIRC review of questionnaires

3. Final review by National Research Coordinators – August
   - 5th NRC meetings, Paris
TIMSS 2015 SMIRC – Science and Mathematics Item Review Committee

Mathematics Experts

Kiril Bankov, Bulgaria
Sean Close, Ireland
Khattab Mohammad Ahmad Abu Libdeh, Jordan
Sun Sook Noh, Korea
Torgeir Onstad, Norway
Mary Lindquist, United States
Liv Sissel Gronmo, Chief Mathematics Consultant
TIMSS 2015 SMIRC – Science and Mathematics Item Review Committee

Science Experts
Newman Burdett, England
Jouni Viiri, Finland
Alice Siu Ling Wong, Hong Kong SAR
Berenice Michels, Netherlands
Galina Kovaleva, Russian Federation
Vitaly Gribov, Russian Federation
Gorazd Planinsic, Slovenia
Wolfgang Dietrich, Sweden
Christopher Lazarro, United States
Gerry Wheeler, United States
Lee Jones, Chief Science Consultant
3rd Meeting of TIMSS 2015 SMIRC – Science and Mathematics Item Review Committee

July 15-18, Sofia, Bulgaria

- Concurrent sessions for mathematics and science
- Reviewed proposed items and scoring guides

**Outcome:** Recommended achievement items for final NRC review
TIMSS 2015 QIRC – Questionnaire Item Review Committee

Sue Thomson, Australia
Josef Basl, Czech Republic
Wilfried Bos, Germany
Martina Meelissen, Netherlands
Chew Leng Poon, Singapore
Peter Nystrom, Sweden
Jack Buckley, United States
2nd Meeting of TIMSS 2015 QIRC – Questionnaire Item Review Committee

July 21-23, Münster, Germany

• Reviewed field test results and proposed questionnaires for TIMSS and TIMSS Advanced questionnaires
  – Student, Teacher, School, Home (4th grade only)

• Reviewed Curriculum Questionnaire and TIMSS 2015 Encyclopedia outline

Outcome: recommended questionnaires for final NRC review
5th NRC Meetings, Paris
TIMSS Advanced   August 6-8, 2014
TIMSS           August 10-15, 2014

- NRCs reviewed and finalized achievement item blocks
  - All seven assessments, item by item!
- NRCs reviewed and finalized home, student, teacher, and school questionnaires
- Sampling plans and operations procedures for the TIMSS 2015 data collection
Finalized Data Collection Instruments

• TIMSS 2015
  - August 28 - posted achievement items and questionnaires for translation by countries

• TIMSS Advanced 2015
  - September 18 – posted questionnaires for translation
  - October 16 (scheduled) – posting of achievement items
Upcoming Schedule Highlights

2014

*** Southern Hemisphere Data Collection ***
October – December

2015

*** Northern Hemisphere Data Collection ***
March – June

March 4-6  6th TIMSS Advanced 2015 NRC Meeting for scorer training – Prague

March 8-13  6th TIMSS 2015 NRC Meeting for scorer training – Prague
Seven TIMSS Assessments into the Field
TIMSS and TIMSS Advanced 2015 Progress Report

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TIMSS & PIRLS International Study Center
Boston College

55th IEA General Assembly
October 2014, Vienna