

# Annex C

## THE DEVELOPMENT AND IMPLEMENTATION OF PISA: A COLLABORATIVE EFFORT



PISA is a collaborative effort, bringing together experts from the participating countries, steered jointly by their governments on the basis of shared, policy-driven interests.

A PISA Governing Board, representing each country, determines the policy priorities for PISA, in the context of OECD objectives, and oversees adherence to these priorities during the implementation of the programme. This includes setting priorities for the development of indicators, for establishing the assessment instruments and for reporting the results.

Experts from participating countries also serve on working groups that are charged with linking policy objectives with the best internationally available technical expertise. By participating in these expert groups, countries ensure that: the instruments are internationally valid and take into account the cultural and educational contexts in OECD countries and in partner countries and economies; the assessment materials have strong measurement properties; and the instruments emphasise authenticity and educational validity.

Participating countries and economies implement PISA at the national level through National Project Managers, subject to the agreed administration procedures. National Project Managers play a vital role in ensuring that the implementation of the survey is of high quality, and verify and evaluate the survey results, analyses, reports and publications.

External contractors are responsible for designing and implementing the surveys, within the framework established by the PISA Governing Board. Pearson developed the science and collaborative problem-solving frameworks, and adapted the frameworks for reading and mathematics, while the Deutsches Institut für Pädagogische Forschung (DIPF) designed and developed the questionnaires. Management and oversight of this survey, the development of the instruments, scaling and analyses are the responsibility of the Educational Testing Service (ETS) as is development of the electronic platform. Other partners or subcontractors involved with ETS include: cApStAn Linguistic Quality Control and the Department of Experimental and Theoretical Pedagogy at the University of Liège (SPe) in Belgium; the Center for Educational Technology (CET) in Israel; the Public Research Centre (CRP) Henri Tudor and the Educational Measurement and Research Center (EMACS) of the University of Luxembourg in Luxembourg; and GESIS – Leibniz-Institute for the Social Sciences in Germany. Westat assumed responsibility for survey operations and sampling with the subcontractor, the Australian Council for Educational Research (ACER).

The OECD Secretariat has overall managerial responsibility for the programme, monitors its implementation daily, acts as the secretariat for the PISA Governing Board, builds consensus among countries, and serves as the interlocutor between the PISA Governing Board and the international Consortium charged with implementing the activities. The OECD Secretariat also produces the indicators and analyses and prepares the international reports and publications in co-operation with the PISA Consortium and in close consultation with OECD countries and partner countries and economies at both the policy level (PISA Governing Board) and the level of implementation (National Project Managers).

## PISA Governing Board

(* Former PGB member who was involved in PISA 2015)

**Chair of the PISA Governing Board:** Michelle Bruniges and Lorna Bertrand*

### OECD countries and Associates

**Australia:** Rhyan Bloor, Michelle Bruniges and Tony Zanderigo*

**Austria:** Mark Német

**Belgium:** Isabelle Erauw, Geneviève Hindryckx and Christiane Blondin*

**Brazil:** Maria Helena Guamaraes Castro, Maria Inês Fini and Luiz Claudio Costa*

**Canada:** Tomasz Gluszynski, Kathryn O'Grady, Pierre Brochu* and Patrick Bussiere*

**Chile:** Carolina Flores, Claudia Matus and Leonor Cariola Huerta*

**Czech Republic:** Tomas Zatloukal and Jana Paleckova*

**Denmark:** Mette Hansen, Frida Poulsen, Elsebeth Aller* and Tine Bak*

**Estonia:** Maie Kitsing

**Finland:** Tommi Karjalainen

**France:** Thierry Rocher and Bruno Trosseille*

**Germany:** Martina Diedrich, Katharina Koufen, Elfriede Ohrnberger, Annemarie Klemm* and Susanne von Below*

**Greece:** Chryssa Sofianopoulou and Vassilia Hatzinikita*

**Hungary:** Sándor Brassói and Benõ Csapó*

**Iceland:** Stefán Baldursson and Júlíus Björnsson*

**Ireland:** Peter Archer, Jude Cosgrove* and Gerry Shiel*

**Israel:** Hagit Glickman and Michal Beller*

**Italy:** Roberto Ricci and Paolo Sestito*

**Japan:** Akiko Ono, Masaharu Shiozaki and Ryo Watanabe*

**Korea:** Bu Ho Nam, Jimin Cho, Jea Yun Park*, Sungsook Kim*, Keunwoo Lee* and Myungae Lee*

**Latvia:** Andris Kangro, Aļona Babiča, Ennata Kivrina* and Dita Traidas*

**Luxembourg:** Amina Kafaï

**Mexico:** Eduardo Backhoff Escudero, Ana María Acevess Estrada, Otto Granados Roldán and Francisco Ciscomani*

**Netherlands:** Marjan Zandbergen and Paul van Oijen*

**New Zealand:** Craig Jones, Lisa Rodgers* and Lynne Whitney*

**Norway:** Marthe Akselsen, Anne-Berit Kavli* and Alette Schreiner*

**Poland:** Piotr Mikiewicz, Jerzy Wisniewski*, Hania Bouacid* and Stanislaw Drzazdzewski*



**Portugal:** Hélder Manuel Diniz de Sousa, Luisa Canto* and Castro Loura*

**Slovak Republic:** Romana Kanovska and Paulina Korsnakova*

**Slovenia:** Andreja Barle Lakota, Mojca Straus and Ksenija Bregar-Golobic

**Spain:** Carmen Tovar Sanchez, Vicente Alcañiz Miñano* and Ismael Sanz Labrador*

**Sweden:** Eva Lundgren and Anita Wester*

**Switzerland:** Vera Husfeldt and Claudia Zahner Rossier

**Turkey:** Kemal Bulbul, Mustafa Nadir Çalis* and Nurcan Devici*

**United Kingdom:** Lorna Bertrand and Jonathan Wright

**United States:** Peggy Carr, Dana Kelly*, Jack Buckley* and Daniel McGrath*

**Observers (Partner economies)**

**Albania:** Zamira Gjini and Ermal Elezi*

**Algeria:** Samia Mezaib and Mohamed Chaibeddra Tani*

**Argentina:** Elena Duro, Martín Guillermo Scasso* and Liliana Pascual*

**Azerbaijan (Baku City only):** Emin Amrullayev

**Belarus (Republic of):** Aliaksandr Yakabchuk and Mikalai Fiaskou

**Bosnia and Herzegovina:** Maja Stojkic

**Brunei Darussalam:** Dr. Azman Ahmad

**Bulgaria:** Neda Kristanova

**Beijing-Shanghai-Jiangsu-Guangdong (China):** Jun Fang, Shiliang Lin, Ping Luo*

**Colombia:** Ximena Dueñas and Adriana Molina*

**Costa Rica:** Alicia Vargas and Leonardo Garnier Rimolo*

**Croatia:** Michelle Bras Roth

**Dominican** Republic: Ancell Scheker Mendoza

**Former Yugoslav Republic of Macedonia:** Natasha Janevska (PISA 2018) and Dejan Zlatkovski*

**Georgia:** Tamar Bregvadze and Natia Mzhavanadze*

**Hong Kong (China):** Ho-pun Choi, Fanny Yuen-fan Wan and Esther Sui-chu Ho*

**Indonesia:** Dr. Totok Suprayitno, Furqon Furqon* and Khairil Anwar Notodiputro*

**Jordan:** Khattab Mohammad Abulibdeh

**Kazakhstan:** Shamshieva Nurgul, Serik Irsaliyev* and Almagul Kultumanova*

**Kosovo:** Anila Statovci Demaj

**Lebanon:** Nada Ouweijan

**Lithuania:** Rita Dukynaite

**Macao (China):** Leong Lai

**Malaysia:** Hon. Dato' Sulaiman bin Wak, Khairil Awang* and Amin Senin*

**Malta:** Charles Mifsud

**Moldova (Republic of):** Anatolie Topala and Valeriu Gutu*

**Montenegro:** Dragana Dmitrovic and Zeljko Jacimovic*

**Morocco:** Mohammed Sassi

**Panama:** Marelissa Tribaldos

**Peru:** Humberto Hildebrando Pérez León Ibañez and Liliana Miranda Molina*

**Philippines:** Elvin Ivan Yaw

**Qatar:** Khalid Abdulla Q. Al-Harqan and Hamda Al Sulaiti*

**Romania:** Roxana Mihail and Daniela Bogdan

**Russian Federation:** Galina Kovaleva, Sergey Kravtsov and Isak Froumin*

**Saudi Arabia:** Mohamed Al-harthi

**Serbia (Republic of):** Anamarija Vičekand Zorana Lužanin*

**Singapore:** Chern Wei Sng and Khah Gek Low*

**Chinese Taipei:** Tian-Ming Sheu, Peng Li-Chun*, Gwo-Dong Chen* and Chih-Wei Hue*

**Thailand:** Supattra Pativisan and Precharn Dechsri*

**Trinidad and Tobago:** Mervyn Sambucharan and Harrilal Seecharan

**Tunisia:** Riadh Ben Boubaker

**Ukraine:** Pavlo Khobzey

**United Arab Emirates:** Hessa Alwahhabi, Rabaa Alsumaiti, Moza al Ghufly*, Ayesha G. Khalfan Almerri*, Ali Jaber Al Yafei* and Khawla Al Mualla*

**Uruguay:** Andrés Peri and Maria Helvecia Sanchez Nunez*

**Viet Nam:** Le Thi My Ha

### PISA 2015 National Project Managers

**(* Former PISA 2015 NPM)**

**Albania:** Rezana Vrapi and Alfons Harizaj*

**Algeria:** Samia Mezaib

**Argentina:** Liliana Pascual

**Australia:** Sue Thomson

**Austria:** Birgit Suchan

**Beijing-Shanghai-Jiangsu-Guangdong (China):** Wang Lei

**Belgium:** Inge De Meyer and Anne Matoul

**Brazil:** Aline Mara Fernandes

**Bulgaria:** Svetla Petrova

**Canada:** Pierre Brochu and Tamara Knighton*

**Chile:** Ema Lagos Campos

**Colombia:** Javier Juyar, Francisco Reyes*, Adriana Molina* and Julián P. Mariño*

**Costa Rica:** Lilliam Mora

**Croatia:** Michelle Bras Roth

**Czech Republic:** Radek Blažek and Jana Paleckova*

**Denmark:** Hans Hummelgaard, Niels Egelund* and Chantal Nielsen*

**Dominican Republic:** Massiel Cohen

**Estonia:** Gunda Tire

**Finland:** Jouni Välijärvi

**Former Yugoslav Republic of Macedonia:** Natasha Janevska and Dejan Zlatkovski

**France:** Irène Verlet

**Georgia:** Natia Mzhavanadze

**Germany:** Christine Sälzer and Manfred Prenzel



**Greece:** Chryssa Sofianopoulou
**Hong Kong (China):** Esther Sui-chu Ho
**Hungary:** László Ostorics
**Iceland:** Almar Midvik Halldorsson
**Indonesia:** Ir. Nizam
**Ireland:** Gerry Shiel
**Israel:** Joel Rapp and Inbal Ron-Kaplan
**Italy:** Carlo Di Chiacchio
**Japan:** Akiko Ono
**Jordan:** Emad Ababneh
**Kazakhstan:** Irina Imanbek and Gulmira Berdibayeva*
**Korea:** Jaok Ku, Jimin Cho* and Mi-Young Song*
**Latvia:** Andris Kangro
**Lebanon:** Bassem Issa and Antoine Skaf*
**Lithuania:** Mindaugas Stundza
**Luxembourg:** Bettina Boehm
**Macao (China):** Kwok Cheung Cheung
**Malaysia:** Muhammad Zaini Mohd Zain
**Malta:** Louis Scerri
**Mexico:** María Antonieta Díaz Gutierrez
**Moldova (Republic of):** Valeriu Gutu
**Montenegro:** Divna Paljevic Sturm
**Netherlands:** Jesse Koops and Johanna Kordes*
**New Zealand:** Steve May, Saila Cowles and Maree Telford*
**Norway:** Marit Kjaernsli
**Peru:** Liliana Miranda Molina
**Poland:** Barbara Ostrowska
**Portugal:** João Maroco
**Qatar:** Shaikha Al-Ishaq and Saada Al-Obaidli*
**Romania:** Silviu Cristian Mirescu
**Russian** Federation: Galina Kovaleva
**Serbia:** Dragica Pavlovic-Babic
**Singapore:** Chew Leng Poon, Elaine Chua and Pik Yen Lim*
**Slovak Republic:** Jana Ferencova
**Slovenia:** Mojca Straus
**Spain:** Lis Cercadillo Pérez
**Sweden:** Magnus Oskarsson
**Switzerland:** Christian Nidegger
**Chinese Taipei:** Hsiao-Ching She and Huann-Shyang Lin
**Thailand:** Nantawan Nantawanit and Suchada Thaithae
**Trinidad and Tobago:** Mervyn Sambucharan
**Tunisia:** Mehrez Drissi and Med Kamel Essid*
**Turkey:** Umut Erkin Taş
**United Arab Emirates:** Mouza Rashed Khalfan Al Ghufli
**United Kingdom:** Dawn Pollard and Juliet Sizmur
**United States:** Dana Kelly, Patrick Gonzales and Holly Xie*
**Uruguay:** Maria Helvecia Sánchez Nunez
**Viet Nam:** Thi My Ha Le

### OECD Secretariat

Andreas Schleicher (Strategic development)
Marilyn Achiron (Editorial support)
Peter Adams (Project management)
Francesco Avvisati (Analytic services)
Yuri Belfali (Strategic development)
Marika Boiron (Translation support)
Rose Bolognini (Production support)
Guillaume Bousquet (Analytic services)
Esther Carvalhaes (Analytic services)
Claire Chetcuti (Administrative support)
Anna Choi (Analytic services)
Cassandra Davis (Dissemination co-ordination)
Alfonso Echazarra (Analytic services)
Juliet Evans (Administration and partner country/economy relations)
Hélène Guillou (Analytic services)
Carlos González-Sancho (Analytic services)
Tue Halgreen (Project management)
Miyako Ikeda (Analytic services)
Thomas Marwood (Administrative support)
Jeffrey Mo (Analytic services)
Chiara Monticone (Analytic services)
Lesley O'Sullivan (Administrative support)
Bonaventura Francesco Pacileo (Analytic services)
Judit Pál (Analytic services)
Mario Piacentini (Analytic services)
Giannina Rech (Analytic services)
Daniel Salinas (Analytic services)
Lisa Smadja (Administrative support)
Michael Stevenson (Dissemination co-ordination)
Hanna Varkki (Administrative support)
Sophie Vayssettes (Project management)

### PISA 2015 science expert group

Jonathan Osborne (SEG Chair) (Stanford University, United States and United Kingdom)
Marcus Hammann (Munster University, Germany)
Sarah Howie (University of Pretoria, South Africa)
Jody Clarke-Midura (Harvard University, United States)
Robin Millar (University of York, United Kingdom)
Andrée Tiberghien (University of Lyon, France)
Russell Tytler (Deakin University, Australia)
Darren Wong (National Institute of Education, Singapore)

#### Extended group

Rodger Bybee (Biological Sciences Curriculum Study (BSCS), United States)
Jens Dolin (University of Copenhagen, Denmark)
Harrie Eijkelhof (Utrecht University, Netherlands)
Geneva Haertel (SRI, United States)
Michaela Mayer (University of Roma Tre., Italy)
Eric Snow (SRI, United States)
Manabu Sumida (Ehime University, Japan)
Benny Yung (University of Hong Kong, Hong Kong, China)



### PISA 2015 problem solving expert group

Arthur Graesser (Chair) (The University of Memphis United States)

Eduardo Cascallar (Katholieke Universiteit Leuven, Belgium)

Pierre Dillenbourg (Ecole Polytechnique Fédérale de Lausanne, Switzerland)

Patrick Griffin (University of Melbourne, Australia)

Chee Kit Looi (Nanyang Technological University, Singapore)

Jean-François Rouet (University of Poitiers, France)

**Extended group**

Rafael Calvo (University of Sydney, Argentina)

Tak Wai Chan (National Central University of Taiwan, China)

Stephen Fiore (University of Central Florida, USA)

Joachim Funke (University of Heidelberg, Germany)

Manu Kapur (National Institute of Education, Singapore)

Naomi Miyake (University of Tokyo, Japan)

Yigal Rosen (University of Haifa, Israel)

Jennifer Wiley (University of Illinois at Chicago, USA)

### PISA 2015 questionnaire expert group

David Kaplan (Chair as of 2014) (University of Wisconsin-Madison, United States)

Eckhard Klieme (Chair until 2013) (German Institute for International Educational Research, Germany (DIPF), Frankfurt, Germany)

Gregory Elacqua (Universidad Diego Portales, Chile)

Marit Kjærnsli (University of Oslo, Norway)

Leonidas Kyriakides (University of Cyprus, Cyprus)

Henry M. Levin (Columbia University, United States)

Naomi Miyake (University of Tokyo, Japan)

Jonathan Osborne (Stanford University, United States)

Kathleen Scalise (University of Oregon, United States)

Fons van de Vijver (Tilburg University, Netherlands)

Ludger Wößmann (University of Munich, Germany)

### Technical advisory group

Keith Rust (chair) (Westat, USA)

Theo Eggen (Cito, Netherlands)

John de Jong (Pearson, UK/VU University Amsterdam, Netherlands)

Jean Dumais (Statistics Canada, Canada)

Cees Glas (University of Twente, Netherlands)

David Kaplan (University of Wisconsin-Madison, USA and DIPF, Germany)

Irwin Kirsch (ETS, USA)

Christian Monseur (Université de Liège, Belgium)

Sophia Rabe-Hesketh (University of Berkeley, USA)

Thierry Rocher (Ministère de l'Éducation Nationale, France)

Leslie A. Rutkowski (University of Oslo, Norway)

Margaret Wu (Victoria University, Australia)

Kentaro Yamamoto (ETS, USA)

### PISA 2015 Lead Contractors

**Educational Testing Service (UNITED STATES) – Cores 2, 3 and 7 lead contractor**

Irwin Kirsch (International project director)

Claudia Tamassia (International project manager)

David Garber (Project management, paper booklets and coding)

Larry Hanover (Editorial support)

Lisa Hemat (Project support)

Isabelle Jars (Project management, questionnaires)

Judy Mendez (Project support and contracts)

Eugenio Gonzalez (Training and data products)

Kentaro Yamamoto (Director, psychometrics and analysis)

Matthias von Davier (Director, psychometrics and analysis)

Chentong Chen (Psychometrics and analysis)

Haiwen Chen (Psychometrics and analysis)

Qiwei He (Psychometrics and analysis)

Lale Khorramdel (Manager, psychometrics and analysis)

Hyo Jeong Shin (Psychometrics and analysis)

Marylou Lennon (Test Development Coordinator, Science and Collaborative Problem Solving)

Jon Weeks (Psychometrics and analysis)

Eric Steinhauer (Test Development, Lead, Science and Collaborative Problem Solving)

Janet Koster van Groos (Test Development, Science)

Marshall L Freedman (Test Development Science)

Israel Solon (Test Development Science)

Jakub Novak (Test Development Science)

Nancy Olds (Test Development Science)

Paul Borysewicz (Test Development, Collaborative Problem Solving)

William Sims (Test Development, Collaborative Problem Solving)

Peter Cooper (Test Development, Collaborative Problem Solving)

Michael Wagner (Director, platform development)

Jason Bonthron (Platform development and authoring)

Paul Brost (Platform development)

Ramin Hemat (Platform development and authoring)

Keith Keiser (Platform development and coding system)

Debbie Pisacreta (Interface design and graphics)

Janet Stumper (Graphics)

Ted Blew (Director, data analysis, research and technology)

John Barone (Director, data analysis and database preparation)

Mathew Kandathil (Leader, data analysis and data management)

Kevin Bentley (Data products)

Hezekiah Bunde (Data management)

Karen Castellano (Data analysis)

Scott Davis (Data analysis)

Chantal Delaney (Data management)

Matthew Duchnowski (Data management)

Ying Feng (Data management)



Zhumei Guo (Data analysis)
Laura Jerry (Data analysis)
Lokesh Kapur (Data analysis)
Debra Kline (Data analysis leader)
Phillip Leung (Data products leader)
Alfred Rogers (Data management leader)
Carla Tarsitano (Data management leader)
Sarah Venema (Data products)
Tao Wang (Data products)
Lingjun Wong (Data analysis)
Yan Zhang (Data management)
Wei Zhao (Data analysis)

**Deutches Institue für Internationale Pädagogische Forschung (**German Institute for International Educational Research **(DIPF), GERMANY) – Core 6 lead contractor**

Eckhard Klieme (Study director, questionnaire framework and development)
Nina Jude (Management and questionnaire development)
Sonja Bayer (Questionnaire development and analysis)
Janine Buchholz (Questionnaire scaling)
Frank Goldhammer (Questionnaire development)
Silke Hertel (Questionnaire development)
Franz Klingebiel (Questionnaire development)
Susanne Kuger (Questionnaire framework and development)
Ingrid Mader (Team assistance)
Tamara Marksteiner (Questionnaire analysis)
Jean-Paul Reeff (International Consultant)
Nina Roczen (Questionnaire development)
Brigitte Steinert (Questionnaire development)
Svenja Vieluf (Questionnaire development)

**Pearson (UNITED KINGDOM) – Core 1 lead contractor**

John de Jong (Programme director)
Catherine Hayes (Programme manager)
Elise Bromley (Programme administrator)
Rose Clesham (Content lead, scientific literacy)
Peter Foltz (Content lead, collaborative problem solving)
Christine Rozunick (Content lead, scientific literacy)
Jon Twing (Psychometric consultant)
Michael Young (Psychometric consultant)

**Westat (UNITED STATES) – Cores 4 and 5 lead contractor**

Keith Rust (Director of the PISA consortium for sampling and weighting)
Sheila Krawchuk (Sampling, weighting and quality monitoring)
Andrew Caporaso (Weighting)
Jessica Chan (Sampling and weighting)
William Chan (Weighting)
Susan Fuss (Sampling and weighting)
Amita Gopinath (Sampling and weighting)
Evan Gutentag (Weighting)
Jing Kang (Sampling and weighting)
Veronique Lieber (Sampling and weighting)
John Lopdell (Sampling and weighting)
Shawn Lu (Weighting)
Martha Rozsi (Weighting)
Yumiko Siegfried (Sampling and weighting)
Joel Wakesberg (Sampling and weighting)
Sipeng Wang (Weighting)
Erin Wiley (Sampling and weighting)
Sergey Yagodin (Weighting)
Merl Robinson (Director of Core 4 Contractor for Survey Operations)
Michael Lemay (Manager of Core 4 Contractor for Survey Operations)
Jessica Chan (National Centre Support, Quality Control)
Lillian Diaz-Hoffman (National Centre Support, Quality Control)
Sarah Hartge (National Centre Support, Quality Control)
Beverley McGaughan (National Centre Support, Quality Control)

**PISA 2015 Contributors, working with Lead Contractors**

**Australian Council for Educational Research (AUSTRALIA) – Core 5 contributor**

Eveline Gebhardt (Project director)
Alla Routitsky (Within-school sampling)
Charlotte Waters (Within-school sampling)
Jorge Fallas (Within-school sampling)
Renee Chow (Within-school sampling)
David Tran (Programmer)
Martin Murphy (School sampling)
Clare Ozolins (School sampling)
Greg Macaskill (School sampling)
Jennifer Hong (School sampling)
Jorge Fallas (School sampling)
Renee Chow (School sampling)
Thomas Stephen (School sampling)

**Center for Educational Technology – Core 3 contributor on test development**

Tali Freund (Test Development Coordinator, Science and Collaborative Problem Solving)
Rachel Mintz (Test Development, Lead, Science)
Nurit Keinan (Test Development, Science)
Hava Ben-Horin (Test Development, Science)
Sherman Rosenfeld (Test Development, Science)
Lilach Tencer-Herschkovitz (Test Development, Science)
Nadav Caspi (Test Development, Science)
Elinor Shaked-Blazer (Test Development, Science)
Sara Hershkovitz (Test Development, Lead, Collaborative Problem Solving)
Cecilia Waisman (Test Development, Collaborative Problem Solving)
Helit Heffer (Test Development, Collaborative Problem Solving)
Estela Melamed (Test Development, Science and Collaborative Problem Solving)



**cApStAn Linguistic Quality Control (BELGIUM) – Core 3 contributor on linguistic quality control**

Steve Dept (Project director, translatability assessment,)

Lieve Deckx (Verification management, cognitive units)

Andrea Ferrari (Linguistic quality assurance and quality control designs)

Musab Hayatli (Right-to-left scripts, cultural adaptations)

Elica Krajceva (Verification management, questionnaires)

Shinoh Lee (Verification management, cognitive units)

Irene Liberati (Verification management, cognitive units)

Roberta Lizzi (Verification management, trend content)

Laura Wayrynen (Translation and verification operations)

**GESIS-Leibniz Institute for the Social Sciences (GERMANY) – Core 3 contributor on test development**

Anouk Zabal (Test Development Coordinator, Science and Collaborative Problem Solving, Software Testing)

Dorothee Behr (Test Development, Science and Collaborative Problem Solving, Software Testing)

Daniela Ackermann (Test Development, Science and Collaborative Problem Solving, Software Testing)

**HallStat SPRL (BELGIUM) – Core 3 contributor as the translation referee**

Beatrice Halleux (Consultant, translation/verification referee, French source development)

**Luxembourg Institute for Science and Technology (LUXEMBOURG) – Core 2 Contributor on the development of the computer-based platform for the background questionnaire and cognitive assessment**

Jehan Bihim (Questionnaire development)

Joël Billard (Multilingual framework and questionnaire development)

Cyril Hazotte (System administration)

Anne Hendrick (Platform Leader, project co-ordination)

Raynald Jadoul (Project management and software architecture)

Isabelle Jars (Project management and testing)

Lionel Lecaque (Software quality and knowledge base administration)

Primaël Lorbat (Multilingual framework and questionnaire architecture)

Matteo Melis (Portal integration and questionnaire development)

Jean-François Merche (System integration and administration)

Vincent Porro (Lead designer and staff co-ordination)

Igor Ribassin (Workflow development and offline tools development)

Somsack Sipasseuth (Workflow development and knowledge base integration)

Nicolas Yodi (Portal integration and questionnaire development)

**Statistics Canada (CANADA) – Core 6 contributor on questionnaires**

Sylvie Grenier (Overall management)

Tamara Knighton (Overall management)

Isabelle Thorny (Implementation Delivery System)

Ginette Grégoire (Implementation Delivery System)

Martine Lafrenière (Implementation Delivery System)

Rosa Tatasciore (Implementation Delivery System)

**Unité d'analyse des Systèmes et des Pratiques d'enseignement (aSPe, BELGIUM) – Core 3 contributor on coding training**

Dominique LaFontaine (Project supervisor)

Ariane Baye (Coding training, reading)

Isabelle Demonty (Coding training, mathematics)

Annick Fagnant (Coding training, mathematics)

Geneviève Hindryckx (Coding training, science)

Anne Matoul (Coding training, reading)

Valérie Quittre (Coding training, science)

**University of Heidelberg (GERMANY) – Core 3 contributor on test development**

Daniel Holt (Test Development, Collaborative Problem Solving)

Andreas Fischer (Test Development, Collaborative Problem Solving)

Ursula Pöll (Test Development, Collaborative Problem Solving)

Julia Hilse (Test Development, Collaborative Problem Solving)

Saskia Kraft (Test Development, Collaborative Problem Solving)

Florian Hofmann (Test Development, Collaborative Problem Solving)

**University of Luxembourg (LUXEMBOURG) – Core 3 contributor on test development**

Romain Martin (Test Development Coordinator, Science)

Samuel Greiff (Test Development Coordinator, Collaborative Problem Solving)

Sara Wilmes (Test Development, Science)

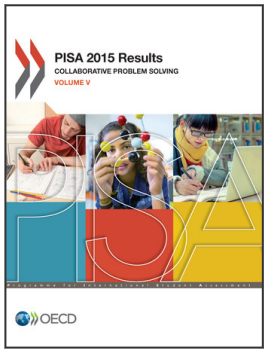
Sophie Doublet (User Testing)

Vincent Koenig (User Testing)

Katja Weinerth (User Testing)

## Publication layout

Fung Kwan Tam




**From:**

# PISA 2015 Results (Volume V)

## Collaborative Problem Solving

**Access the complete publication at:**
https://doi.org/10.1787/9789264285521-en

**Please cite this chapter as:**

OECD (2017), "The development and implementation of PISA: A collaborative effort", in *PISA 2015 Results (Volume V): Collaborative Problem Solving*, OECD Publishing, Paris.

DOI: https://doi.org/10.1787/9789264285521-16-en

This work is published under the responsibility of the Secretary-General of the OECD. The opinions expressed and arguments employed herein do not necessarily reflect the official views of OECD member countries.

This document and any map included herein are without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area.

You can copy, download or print OECD content for your own use, and you can include excerpts from OECD publications, databases and multimedia products in your own documents, presentations, blogs, websites and teaching materials, provided that suitable acknowledgment of OECD as source and copyright owner is given. All requests for public or commercial use and translation rights should be submitted to rights@oecd.org. Requests for permission to photocopy portions of this material for public or commercial use shall be addressed directly to the Copyright Clearance Center (CCC) at info@copyright.com or the Centre français d'exploitation du droit de copie (CFC) at contact@cfcopies.com.

OECD