

AI and Large-Scale Assessment: Perspectives from PISA (the Programme for International Student Assessment)

Goal

The purpose of this session is to illustrate leading examples of artificial intelligence (AI) technology use in large-scale assessment and in classroom instruction that may have implications for large-scale assessment. It is intended to update the Board on how a major international assessment is using AI to inform the Board's thinking about the opportunities and risks of AI technologies that may have implications for NAEP and Board policy.

Overview

Andreas Schleicher, the Director for the Directorate of Education and Skills for the Organisation for Economic Co-operation and Development (OECD), will present on efforts to use AI for the Programme for International Student Assessment (PISA). [PISA](#) is an international student assessment administered by the OECD measuring 15-year-olds' abilities to use their reading, mathematics, and science literacy knowledge and skills to meet real-life challenges. The assessment is currently administered every three years, moving to every four years after the 2025 administration. Eighty-one countries and economies took part in the 2022 assessment of reading. The National Center for Education Statistics (NCES) Commissioner Peggy Carr serves as Vice Chair of the PISA Executive Board.

The session will focus on assessment and classroom tools using cutting-edge AI technologies; the ways in which PISA is incorporating AI tools into the assessment development process; and thoughts on how AI may impact how the Board may think about assessed constructs. The session will discuss how AI's benefits could be maximized while managing risks (e.g., bias, data privacy, test security). Board members will have the opportunity to ask questions and discuss how these technologies may impact the Board's work.

Presenter Biography



Andreas Schleicher is Director for Education and Skills at the Organisation for Economic Co-operation and Development (OECD). He initiated and oversees the Programme for International Student Assessment (PISA) and other international instruments that have created a global platform for policy-makers, researchers and educators across nations and cultures to innovate and transform educational policies and practices.

He has worked for over 20 years with ministers and education leaders around the world to improve quality and equity in education. Former U.S. Secretary of Education Arne Duncan said that Schleicher “understands the global issues and challenges as well as or better than anyone I’ve met, and he tells me the truth” (The Atlantic, July 11). Former UK Secretary of State Michael Gove called Schleicher “the most important man in English education” – even though he is German and lives in France.

Before joining the OECD, he was Director for Analysis at the International Association for Educational Achievement (IEA). He studied Physics in Germany and received a degree in Mathematics and Statistics in Australia. He is the recipient of numerous honours and awards, including the “Theodor Heuss” prize, awarded in the name of the first president of the Federal Republic of Germany for “exemplary democratic engagement”. He holds an honorary Professorship at the University of Heidelberg.