Artificial Intelligence and Implications for NAEP Content Development and Reporting

November 17, 2023

This session at the 2023 November quarterly Board meeting will be an opportunity for Board members to learn about ongoing efforts and future directions being explored by the National Center for Education Statistics (NCES) to incorporate artificial intelligence (AI) as a tool for increasing efficiency across NAEP processes. The session will focus primarily on efforts related to content development and reporting.

Background

The Governing Board has expressed interest in keeping informed about how AI is changing assessment and education. This is an important endeavor, as AI has the potential to change classroom instruction and assessment in meaningful ways (U.S. Department of Education, 2023). The Board will need to consider implications of these changes as they pertain to NAEP policy, and to the Board's goals of ensuring NAEP remains an efficient, relevant, and useful assessment.

The August 2023 Board meeting was the first quarterly Board meeting intended to enhance the Board's general understanding of recent advancements in AI as they pertain to education and assessment. Four presentations were provided:

- Kristen DiCerbo, the Chief Learning Officer from Khan Academy, shared innovations for student learning using generative AI[1].

- Susan Lottridge of Cambium Assessment described the current state of the field regarding AI use for automated scoring, including implications for NAEP.

- Matthias Von Davier of the TIMSS & PIRLS International Study Center at Boston College, shared plans for using AI in the TIMSS and PIRLS international assessments.

- Peggy Carr and Emmanuel Sikali from NCES presented high-level plans for using AI for various aspects of NAEP.

To learn more about the Board's AI learning agenda and prior presentations, see the [August 2023 Quarterly Board Meeting materials](#).

References

U.S. Department of Education, Office of Educational Technology. (2023). *Artificial Intelligence and Future of Teaching and Learning: Insights and Recommendations*. Washington, DC.

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[1] **Generative AI** is defined by the [Government Accountability Office](#) as "a technology that can create content, including text, images, audio, or video, when prompted by a user."