



The future of education is now in Poland with AI lab



OVERVIEW

“Elevate student performance and unlock their full creative potential” – a statement that encapsulates the essence of modern educational programs integrating AI tools into the classroom.



A notable example is Poland, where the National AI Labs in Schools Program is set to launch. Early outcomes from a pilot initiative, conducted by Intel and Google in partnership with CCT Poland, highlight the transformative impact of creating a model AI-equipped classroom in a public school in Poland.

The program offers comprehensive training in digital competencies for educators, state-of-the-art hardware including AI-enabled laptops, and access to high-quality educational content and resources.



We introduced the AI Lab Program at the Secondary School named after Nicolaus Copernicus in Iłża, a well-regarded institution with 300 students across seven classes. Renowned for its inclusive environment and focus on nurturing individual talents, the school provides a safe and supportive space for academic and personal growth.

15 out of the 24 educators, with extensive teaching experience, participated in the program.

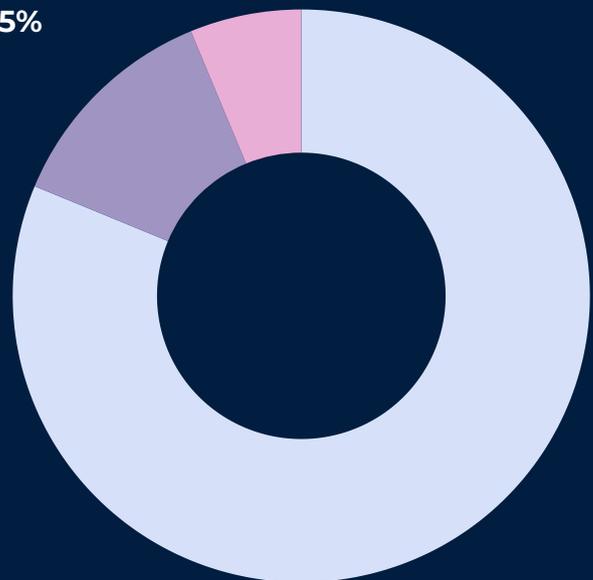
These educators represent a broad range of disciplines, including native and foreign languages, mathematics, physics, history, geography, computer science, and physical education, reflecting the comprehensive nature of the program's integration into the curriculum.

70% of the teachers reported that they had not used AI tools prior to the start of the pilot project.

By the end of the program, 81% of educators reported a far more positive attitude towards AI, seeing the benefits of using AI in teaching and learning.

ATTITUDES TO ARTIFICIAL INTELLIGENCE

It has not changed
12.5%



It is more positive
81.3%

PROFESSIONAL DEVELOPMENT OF EDUCATORS

In its initial phase, 15 educators underwent a series of training sessions designed to equip them with the skills to effectively utilize Google for Education Workspace Plus's digital tools within the educational process. Participants also continued their training and undertook an examination to earn globally recognized Google Certified Educator credentials (Level 1), showcasing their proficiency in utilizing advanced technologies to foster innovation-driven learning environments.



Empowering Educators with AI-Driven Teaching Tools

Furthermore, educators participated in training that helped them integrate technology and artificial intelligence (AI) into everyday teaching and learning, encouraging them to adopt innovative approaches that foster students' cognitive, technological, and socio-emotional skills. The program equips teachers with practical tools and AI-enabled resources, including ready-to-use lesson plans, presentations, and software files, enabling them to seamlessly incorporate both technology and AI into teaching across all subjects and grade levels.

Personalized Training Tailored to Educators' Needs

In mid-November 2024, following the training, 13 out of 15 teachers stated: "The topic of AI in education was new and important to me, and the structure was tailored to my interests and needs as a teacher." Nearly all participants confirmed they gained fundamental knowledge about AI, AI tools for classroom teaching, and AI tools for student assessment. 70% of respondents rated the training as "satisfactory" or "above satisfactory,

Positive Impact and Integration of AI in Education

Furthermore, 80% of the teachers reported regular use of AI after the training, indicating ongoing integration of technology into their educational practices. 88% of respondents stated that the Google training helped them better understand and use AI tools. 93% of respondents said that the Google platform helped them gain better access to AI tools such as Gemini.



TEACHERS HIGHLIGHTED THE BENEFITS OF AI:

1 65%

observed improved student engagement thanks to interactive AI tools.

2 70%

emphasized increased efficiency in teaching and administration.

3 60%

appreciated broader access to innovative and advanced educational resources.



Frequency: Approximately 80% of respondents use technology daily in their teaching or administrative tasks. Tools used include but are not limited to Gemini, Canva, Co-pilot, Kahoot, Quizlet.



Using AI computers with Gemini has completely changed how I learn and work with others. Gemini helps me write and fix code easily, and I can even pick from different coding options, which makes programming way more fun. . Things like coding in C++ used to be super hard, but now, with these tools, it's so much easier and actually exciting

STUDENT USING GEMINI

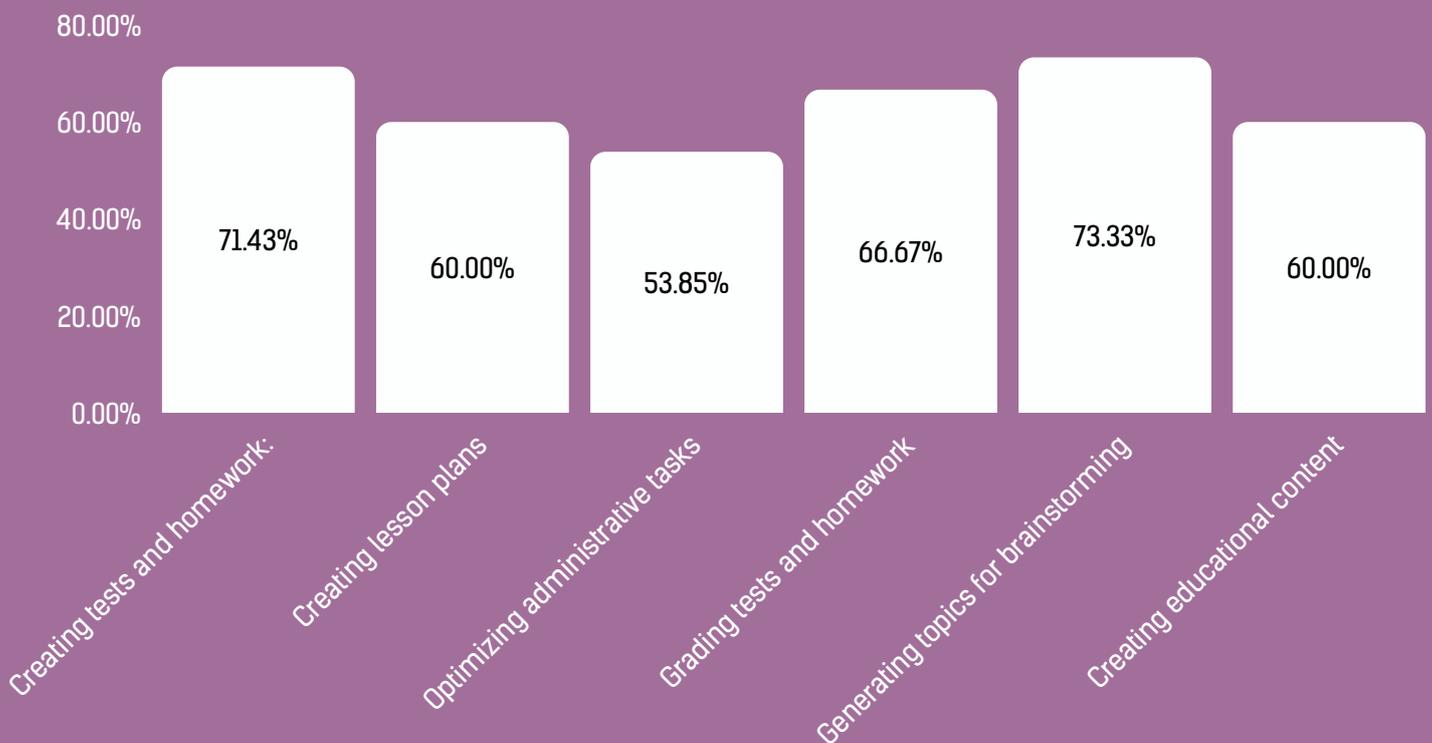


AI tools save time and enrich teaching. For example, I used AI to create a worksheet for a lesson on the Berlin Wall, integrating vocabulary, grammar, and map exercises. Students not only watched a video but also engaged deeply with the topic through interactive tasks. Applications like Google Classroom streamline homework and group work, making teaching more efficient and responsive."

GERMAN LANGUAGE TEACHER



HOW PREPARED DO EDUCATORS FEEL TO USE AI TOOLS FOR THE FOLLOWING TASKS?



Teachers Embrace AI: From Lesson Planning to Grading and Beyond

Post-training, 60% of teachers reported using AI tools for lesson plan development and an equal percentage for creating educational content. About 70% used AI tools for creating and grading homework and tests, while 55% applied their new knowledge to optimize administrative duties.

CUTTING-EDGE TECHNOLOGY



Working with AI-equipped computers has transformed the way I learn. Tools like Gemini assist with coding and creative tasks, while Google Meet improves collaboration with peers and teachers. AI has turned challenging tasks into enjoyable experiences." **Student Council Vice President**

The new devices have enabled the use of advanced AI applications such as Gemini, Google Workspace for Education, Canva, and other collaboration platforms. This was not possible on older systems due to performance limitations. Before the program launch, 30% of respondents identified the lack of suitable devices as a significant barrier to using AI. After receiving the new devices, this figure dropped to less than 10%.



The introduction of these devices fostered positive sentiments toward the initiative with comments such as *"the devices brought modernity to schools"*. Many educators described the devices as *"crucial"* for successful integration of AI tools.

The laptops introduced in the AI Lab project have received overwhelmingly positive feedback from both students and teachers. Nearly 94.44% praised their ease of use, speed, and superiority over previous devices. All respondents (100%) agreed that the laptops met their expectations for a computer lab and were well-suited for the programs and tasks involved in the projects. Additionally, 72.22% highlighted the benefit of having these devices available as personal tools for continuous use.



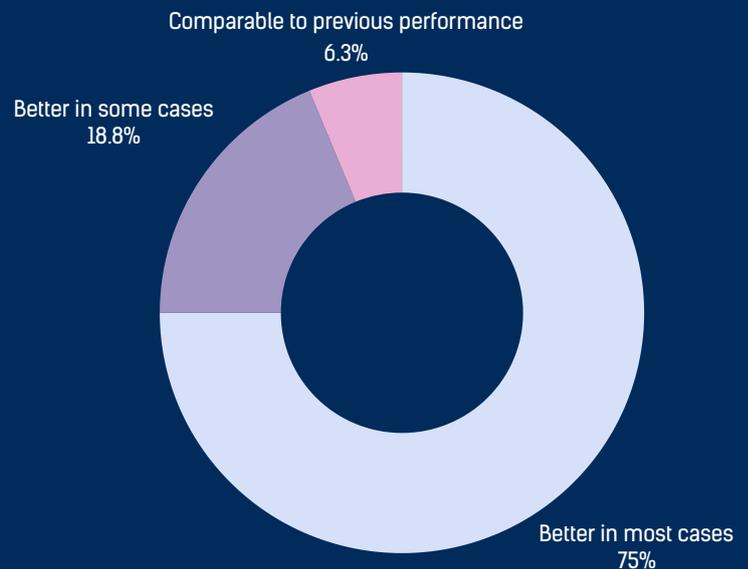
AI DEVICES FOR NEXT LEVEL TEACHING & LEARNING

The lab was equipped with a number of Lenovo IdeaPad Flex 5 Chromebook and ASUS ExpertBook CX54 Chromebook Plus Enterprise that is powered with the latest Intel Core Ultra Processor and featuring integrated Chromebook Plus AI Tools.



Intel® Core™ Ultra Processors integrate AI-powered creativity and productivity tools, enabling richer student collaboration and personalized education. With AI-enabled software running locally, educators and students benefit from accelerated, responsive, and secure experiences, ensuring more time is spent on learning and creation rather than waiting.

IMPACT OF DEVICES COMPARISON OF OLD AND NEW DEVICES



The devices have been rated as "highly suitable" for educators, with 75% confirming they meet their needs for professional use, including educational tasks and administrative work.

Fourteen out of fifteen teachers report gaining even easier access to AI tools thanks to the Google Workspace platform (now implemented in the school) with @school account.

AI LAB MEETS STEAM INNOVATION



The AI lab can also turn into a STEAM lab due to a partnership with Shape Robotics who provided interactive monitor with video conferencing opportunities as well as VR headsets and robotics.



HEAD OF IT IN SCHOOL:

The integration of Intel and Google technologies has revolutionized our tech management. Tools like Chrome Education Upgrade simplify software installation and access configuration. Enhanced cybersecurity features allow us to protect students from harmful content while teaching them to respect and secure their privacy online.



FREE ACCESS TO WORLD-CLASS EDUCATIONAL CONTENT

Teachers worked with a pilot class to test the AI lab with a Starter Pack from Skills for Innovation Program that is pre-designed with localized content that incorporates AI into learning tasks. As a result, a majority of students (77.8%) find it easier to engage in active learning and skill development through technology.



"The AI Lab allows lessons to be planned faster and makes them more engaging. Students are eager to use new technologies, including artificial intelligence, which increases their involvement in the learning process."

AGNIESZKA KOPIĆ-ŚWIRA, SCHOOL DIRECTOR

Programs such as Skills for Innovation equips learners with future-ready mindsets like computational and design thinking and essential skill sets, such as AI, data analytics, and simulation tools, enabling them to tackle challenges and devise solutions for problems yet to be imagined. This approach prepares students for an evolving job market driven by automation while fostering social-emotional skills like teamwork, leadership, and resilience. All resources are open and free with a code CCTSFIPL (scan the code for the website)



"The AI Lab gives me an edge. It helps me explore AI, develop skills in coding, and even work on creative projects like designing simple models, images, or videos, preparing me for my future career."

**TOMEK, STAR STUDENT AND INTEL
AI GLOBAL IMPACT FESTIVAL LAUREATE**

Collaborative Problem-Solving



Collaborative projects



Completion of group assignments



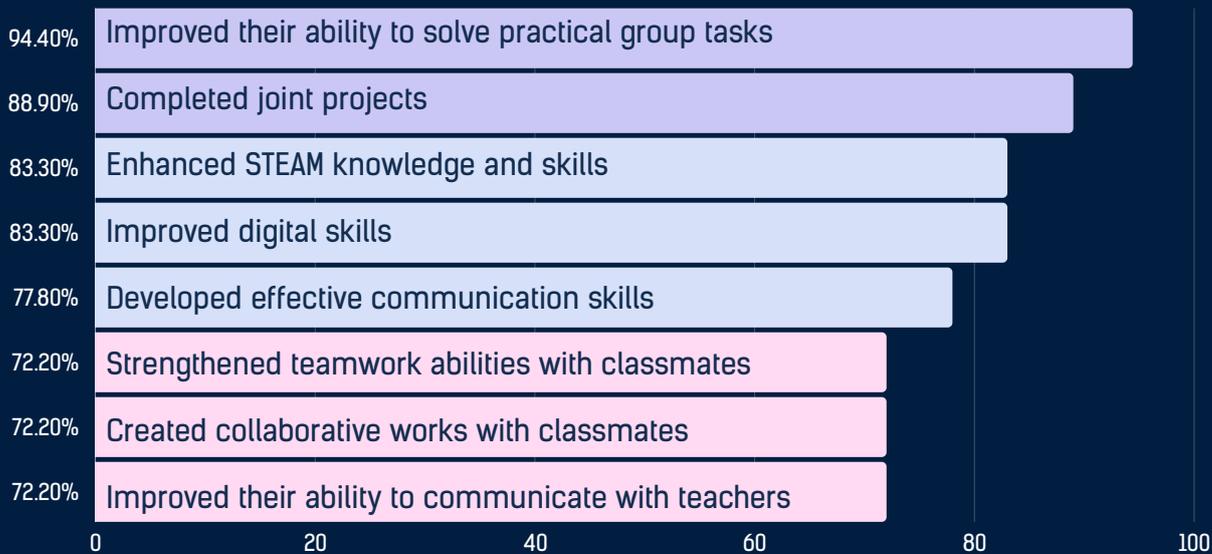
STEM knowledge and skills



The school also has access to the "AI For Youth" program by Intel® that is designed to equip young people with fundamental knowledge and skills in artificial intelligence through well-structured modules covering a broad range of topics. The introductory modules familiarize participants with the basics of AI, explaining how the technology works, its applications, and its impact on society. These modules also address ethical issues related to AI, laying the groundwork for responsible technology use. They align well with the "Skills for Innovation" program, enabling simultaneous implementation.

Students report that using AI in the classroom increased ability to solve practical group tasks (94.4%), creation of collaborative projects (88.9%), completion of group assignments (83.3%), enhanced STEM knowledge and skills (77.8%), improved digital skills (72.2%), and better teamwork abilities (72.2%), report students.

STUDENTS AGREE THAT AS A RESULT OF LESSONS UTILIZING ARTIFICIAL INTELLIGENCE:



AI LAB: TRANSFORMING EDUCATION FOR THE FUTURE.

VIDEO OF THE PROJECT



<https://lnq.com/WguoT>

The dynamic learning environment facilitated by AI tools enables teachers and students to work flexibly while maximizing teaching and learning time. It unlocks new levels of personalized education, better preparing students for the transition from lessons to real life.

Many schools are expected to follow this path, embracing the broad horizons AI tools offer to achieve a new level of education.

Those involved in organizing the project are committed to supporting others in adopting this innovative model, allowing them to experience the tangible benefits firsthand.

