



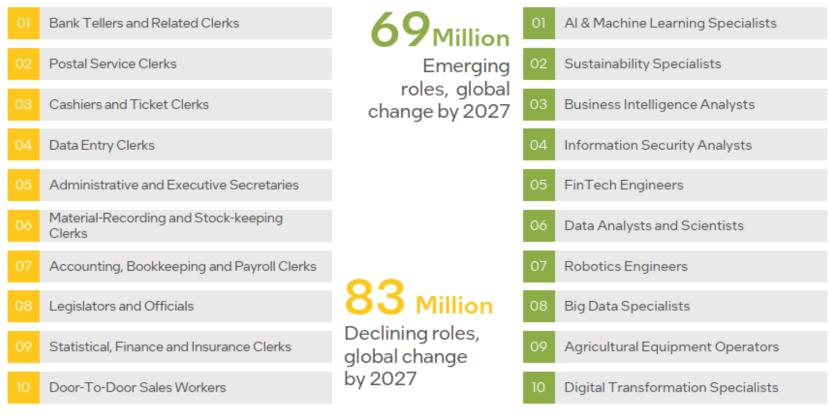
AI and Education

Reinventare l'uso della tecnologia a scuola

Novembre 2024



Transformation of Jobs & Skills Requirements



We need to upskill students in the problem-solving, social-emotional competencies and technology design and programming.

Analytical thinking Creative thinking Resilience, flexibility and agility Motivation and self-awareness Curiosity and lifelong learning Technological literacy Dependability and attention to detail Empathy and active listening Leadership and social influence Quality control Type of skill Self-efficacy Cognitive skills Technology Skills Working with Management Skills people

Source: 1. Future of Jobs Survey 2023, World Economic Forum. https://www3.weforum.org/docs/WEF_Future_of_Jobs_2023.pdf



The Time Sap of Digital Tasks



spent searching for files, filing and storing documents.

72 mins writing emails.

organizing emails.

summarizing meeting notes. compiling data.

68 mins | 75 mins on data analysis.

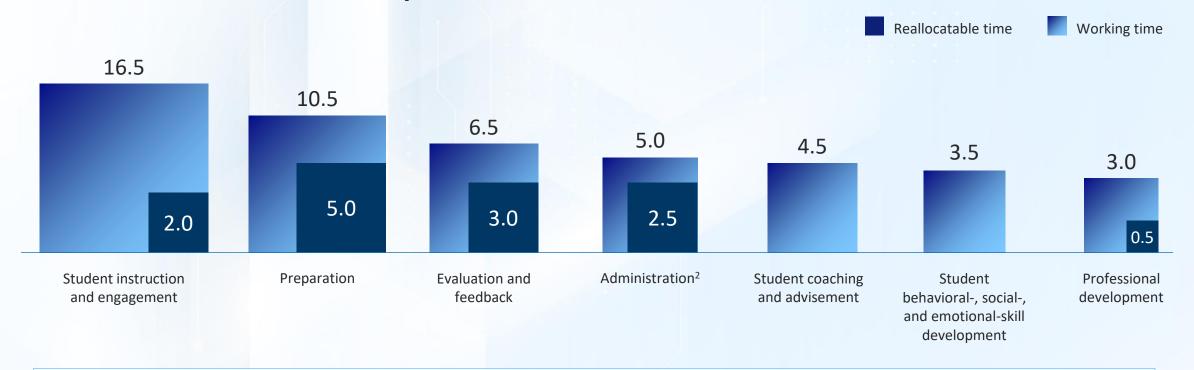
scheduling calls.



Source: Survey commissioned by Intel of 6,000 respondents in Germany, United Kingdom and France, 2024



Potential for Time Reallocation in Number of Hours per Week¹



Technology can help teachers reallocate 20 to 30% of their time toward activities that support student learning.

^{1.} Figures may not sum, because of rounding. Average for respondents in Canada, Singapore, United Kingdom, and United States. 2. Includes a small "other" category.

Source: McKinsey Global Teacher and Student Survey – Referenced in https://www.weforum.org/agenda/2023/05/ai-accelerate-students-holistic-development-teaching-fulfilling/



Al is Here Now:

A Faster Adoption than Expected



56%

believe that AI is already somewhat to very helpful



57%

believe that AI tools should be used



74%

plan to increase their use of Al in 2024

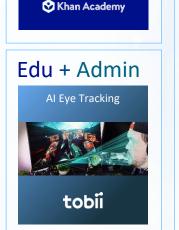
Source: https://thejournal.com/articles/2023/08/29/teachers-plan-to-learn-and-use-ai-more-in-the-20232024-school-year.aspx



AI: Optimized Experiences for Educators and Students

Save Time, Improve Quality, Experience New Ways of Working

Personalized Learning





Educators + Students

















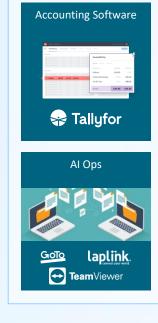












Admin









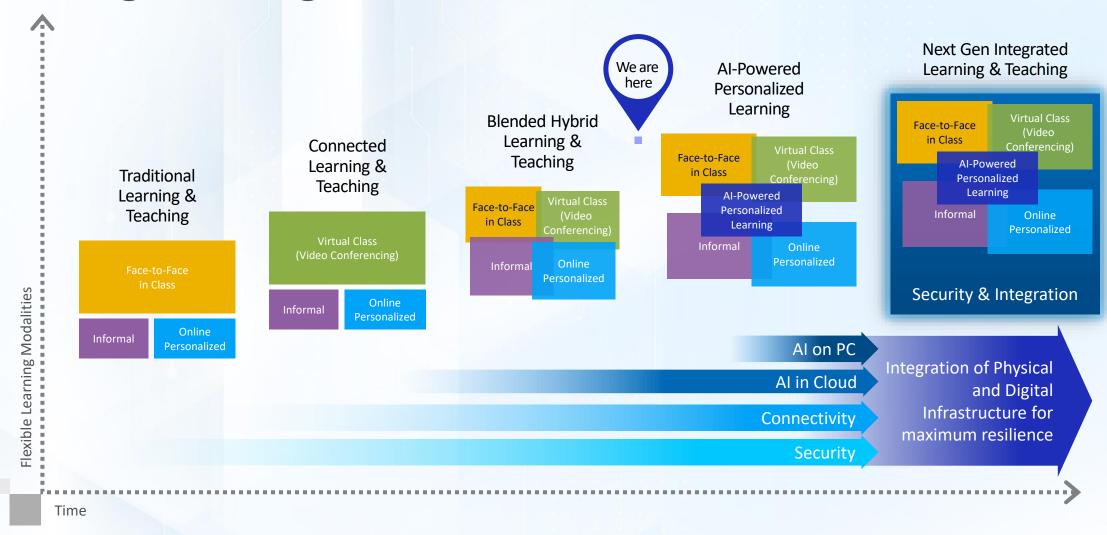




Intel AI PCs deliver a multitude of AI accelerated commercial applications



Evolving Learning Modalities



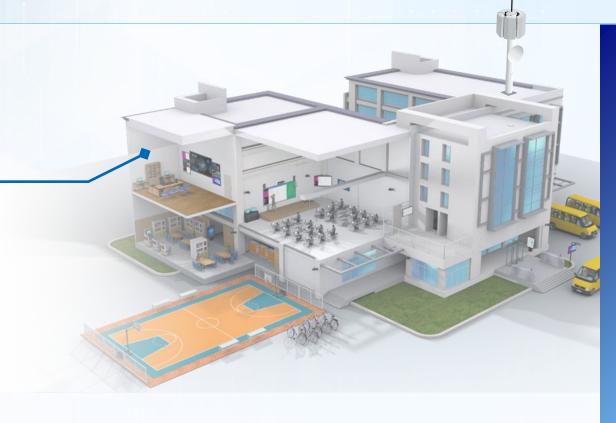




Al Use Cases and Opportunities in Education

Educators and Administrators Take Instruction to a Higher Level using AI

- Teaching assistants
- Personalized tutoring
- Curriculum design
- Class scheduling
- Enhanced learning management system
- Learning outcome predictions
- Administrative task automation
- Exam Scoring /Student Assessment
- Resource planning
- Parent School Communication



Value of Al

- Lighten administrative workloads
- Create efficiencies
- Assist in Curriculum development
- Provide personalized curriculum
- Track student / parent engagement
- Improve student outcomes



Students Gain Digital Skills with Al

- Personalized learning
- Tutoring
- Digital skills building
- Assistance for students with special needs
- Immersive experiences
- Virtual labs
- Al coding/programming
- Prompt engineering



Value of Al

- Personalize content for personalized learning
- Increase accessibility and equitable access
- Build digital skills and guide skills development
- Create immersive training experiences



The Smart Campus Takes Shape using Al

- Smart boards and displays
- Video analytics for staff and students' physical safety
- Smart parking, wayfinding
- Crowd management
- Robotics cleaning devices
- Cybersecurity

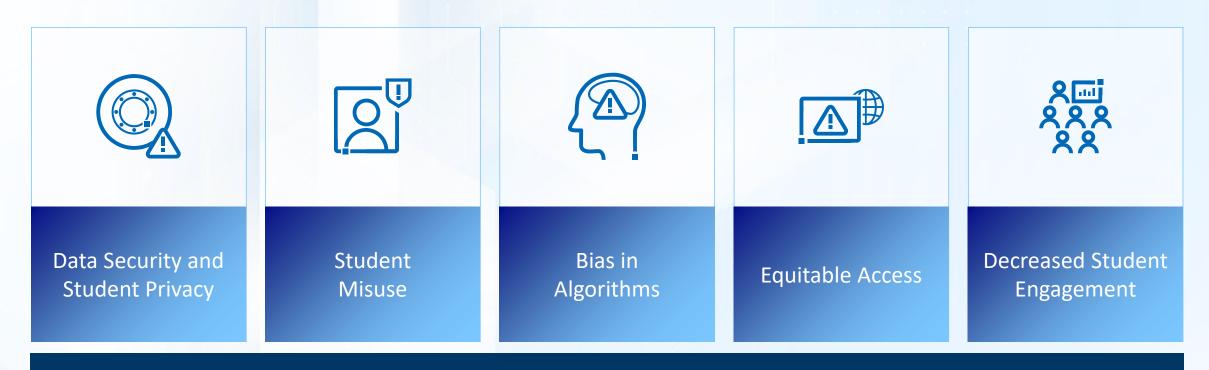


Value of Al

- Boost student engagement
- Optimize resource utilization
- Increase campus safety and security
- Proactively manage and maintain campus equipment



Al Can Present Difficult Challenges



Most of these risks are not new but they require careful consideration through the responsible use of AI.

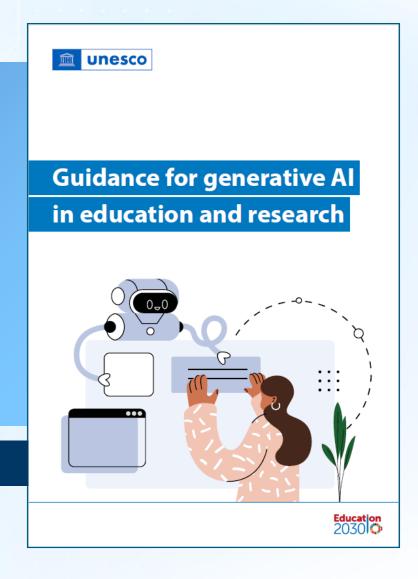


Importance of Responsible AI

"We are struggling to align the speed of transformation of the education system to the speed of the change in technological progress and advancement in these machine learning models."

Stefania Giannini, assistant director general for education, UNESCO¹

1. https://www.scmp.com/yp/discover/news/global/article/3233820/unesco-seeks-regulation-first-guidance-generative-ai-education UNESCO report: https://www.unesco.org/en/articles/guidance-generative-ai-education-and-research





Bringing Al Everywhere: Digital Skill Building Programs

Intel® Al for Youth

For high school students in K-12 schools/after-schools (age: 13-19)



>25 countries
500,000 students reach

Intel® AI for Future Workforce

For students age 16+ at employability education institutions



>10 countries

>500 universities and colleges

Intel[®] Digital Readiness ▶

Intel® Skills for Innovation

For students and educators in K-12 schools (age 7-19)



>50 countries, working with

>60 partner organizations

Intel® Skills for Innovation ▶



Intel AI for Youth: Empower Youth on AI Tech & Social Skills, in an Inclusive Way

Deep understanding of AI

Demystify AI and equip youth with the skillset and mindset required for AI readiness.

Access and use of AI toolsets

Democratize access to AI tools with Intel
technologies and train youth to use them skillfully.

Create solutions with AI
Meaningful social impact solutions as evidence
of achievement





AI4Y Skills Outcome Map



Hands-On, Project Building, Demonstrated Outcomes, Intel Certification



