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# 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.

Source: 1. Future of Jobs Survey 2023, World Economic Forum. <u>https://www3.weforum.org/docs/WEF\_Future\_of\_Jobs\_2023.pdf</u>

Technology Skills

Management Skills

Cognitive skills

Working with

people

#### The Time Sap of Digital Tasks



spent searching for files, filing and storing documents.



writing emails.

**56** mins

organizing emails.



59 mins

summarizing meeting notes. 68 mins 75 mins compiling data.

on data analysis.

53 mins scheduling calls.

Save more than

240 mins

weekly on routine tasks.<sup>1</sup>

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 Week<sup>1</sup>



# 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 <a href="https://www.weforum.org/agenda/2023/05/ai-accelerate-students-holistic-development-teaching-fulfilling/">https://www.weforum.org/agenda/2023/05/ai-accelerate-students-holistic-development-teaching-fulfilling/</a>

#### 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



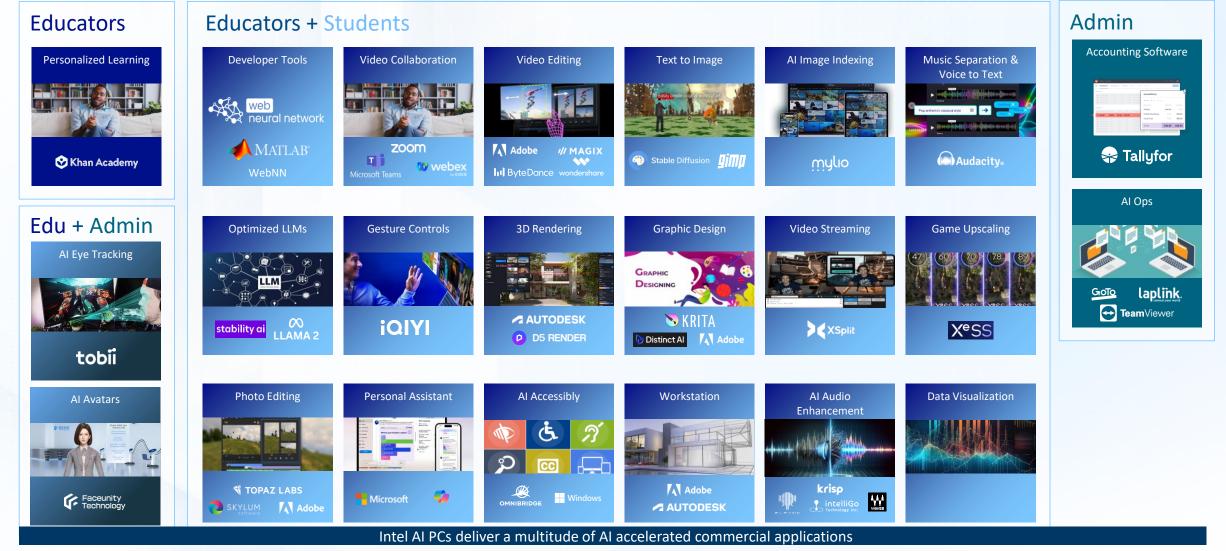
74%

plan to increase their use of Al in 2024

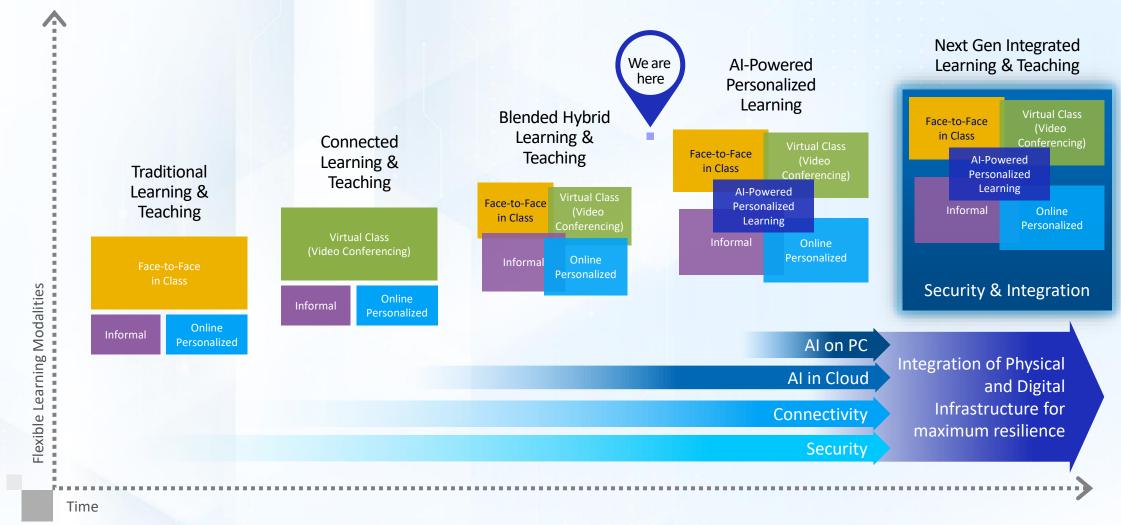
Source: https://thejournal.com/articles/2023/08/29/teachers-plan-to-learn-and-use-ai-more-in-the-20232024-school-year.aspx

### AI : Optimized Experiences for Educators and Students

Save Time, Improve Quality, Experience New Ways of Working



#### **Evolving Learning Modalities**



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# 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 AI

- 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 AI

- 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 AI

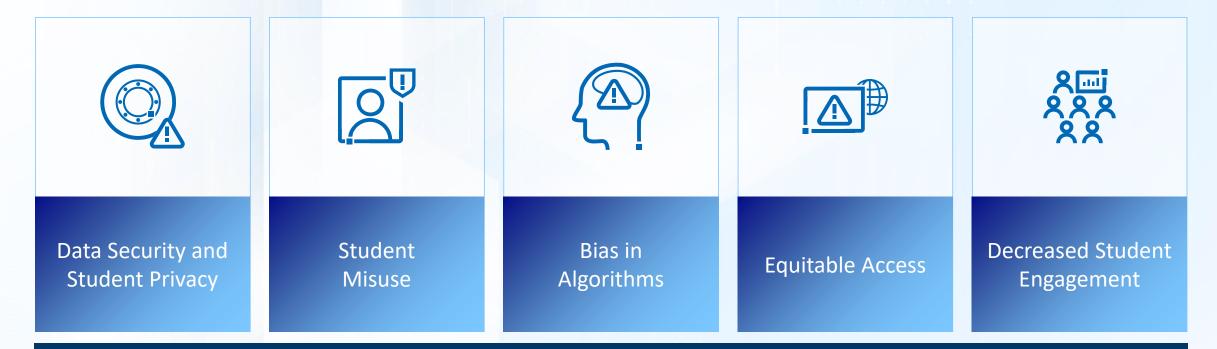
- Smart boards and displays
- Video analytics for staff and students' physical safety
- Smart parking, wayfinding
- Crowd management
- Robotics cleaning devices
- Cybersecurity



#### Value of AI

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

#### Al Can Present Difficult Challenges

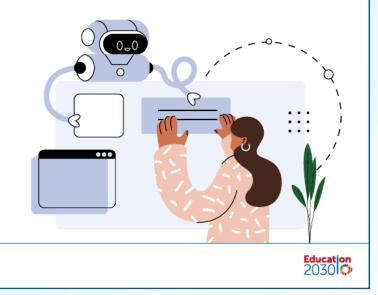


Most of these risks are not new but they require careful consideration through the responsible use of AI.

### 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." Dimesco

## Guidance for generative Al in education and research



Stefania Giannini, assistant director general for education, UNESCO<sup>1</sup>

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 AI Everywhere: Digital Skill Building Programs

#### Intel<sup>®</sup> AI for Youth

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



>25 countries 500,000 students reach

#### Intel<sup>®</sup> AI for Future Workforce

For students age 16+ at employability education institutions



>10 countries >500 universities and colleges

#### Intel<sup>®</sup> Skills for Innovation

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



>50 countries, working with
>60 partner organizations

Intel<sup>®</sup> Skills for Innovation ►

Intel<sup>®</sup> Digital Readiness 🕨

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

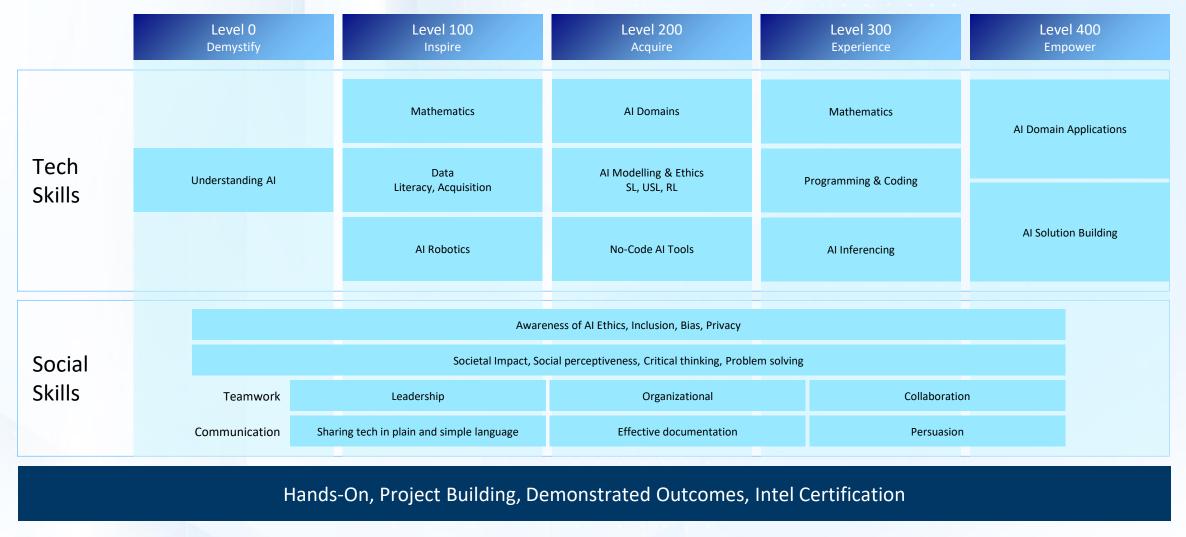
Deep understanding of AI Demystify AI and equip youth with the skillset and mindset required for AI readiness.

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



# intel <sub>®</sub>