

Series 3
April 2025

Shared Visions

Technology and Education

Program Democratic Principles Strengthened through Education
and Policy Dialogue



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Executive Secretariat for Integral Development (SEDI)
Department of Human Development, Education and Employment (DHDEEE)
CIE Technical Secretariat



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Introduction: Technology in the Classroom

Sources:

*Global education monitoring report (GEM), 2023:
technology in education: a tool on whose terms?.*

- Technology is a particularly relevant topic at this time in the field of education across the Americas and around the world. This edition of “Shared Visions” explores how different countries are adopting technology to transform teaching and learning in the region.
- To introduce the topic, it includes a list of persistent challenges and the strategies implemented to promote the effective and sustainable use of technology in educational systems.
- As stated in the 2023 Global Education Monitoring Report, *Technology in education: A tool on whose terms?: “The lack of regulation even poses threats to democracy and human rights, for example, through invasions of privacy and the incitement of hatred. Educational systems must be better prepared to use and teach about digital technology—a tool that should serve the interests of all students, teachers, and administrative staff.”*

Challenges in the use of technology in the classroom

Strategies to overcome them:

Hybrid models: Countries like Mexico and Brazil have implemented distance learning models through television and radio, combined with in-person support, as in the case of *telesecundarias* (remote secondary schools).

Impact on learning: The use of technology has been shown to improve student engagement and motivation, but it does not always guarantee better learning outcomes.

In some cases, the lack of pedagogical integration has limited its effectiveness.

Use of mobile devices: Cell phones are the most common technological tool in the region and are used to share educational content and facilitate communication between teachers and students.

Lifelong teacher training: The opportunity to improve teacher training is key. In many countries, educators are in the process of acquiring the skills needed to integrate technology into their teaching methods, which has the potential of contributing to the transformation of education.

Sustainability: The most successful models combine technological access with pedagogical strategies that prioritize sustainability.

Featured Programs in the Americas

Digital Transformation and Technical Education



- **Grenada**, through the Caribbean Digital Transformation Project (CARDTP), **Argentina**, with the National Institute of Technical Education (INET), and **Peru**, through the Secondary Education Service Model with Technical Training, are promoting technical education, in some cases integrating areas related to computer science and digitalization.

Digital Educational Resources



- **Ecuador**, through the Alliance for the Digitalization of Education in Latin America (ADELA) and CEIBAL, and **Mexico**, through the 2022 Curriculum and Study Programs for Primary and Secondary Education, are promoting the use of digital tools in education and collaborative platforms to improve learning.

Featured Programs in the Americas

Digital Safety and Responsible Internet Use



- **Ecuador**, through the Intergenerational Network of Multiplying Agents for Safe Internet Use (RIAMUSI), promotes initiatives to encourage safe internet use, with a special focus on the digital protection and education of children and adolescents.

Education in Digital Modalities



- **Guatemala**, through its E-learning diploma programs, uses technology to promote education and distance training.

Conclusions

- The experiences presented in this edition of Shared Visions show that the integration of technology into technical and general education across the Americas has been a heterogeneous process, with significant advances in usage and methodologies, but also with persistent structural challenges.
- Teacher training and the pedagogical integration of technology emerge as key factors in achieving a sustainable and effective educational transformation.
- The initiatives shared* present models that combine access to technology with pedagogical strategies adapted to local contexts.
- The use of mobile devices, hybrid education, and digital learning platforms have enabled innovations in teaching, but their effectiveness depends on planned implementation with a long-term vision.

**Responses submitted by countries in the Americas through the “September – November 2024 Survey”*