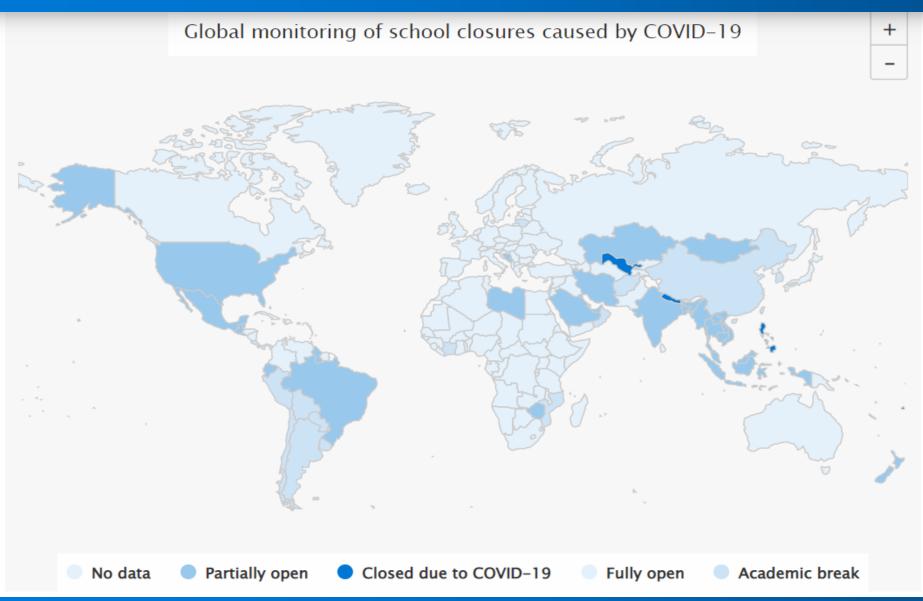


DigiTrans2022 – Building Bridges to Better Decisions

Interoperable Platforms – A UNESCO Perspective Borhene Chakroun, UNESCO



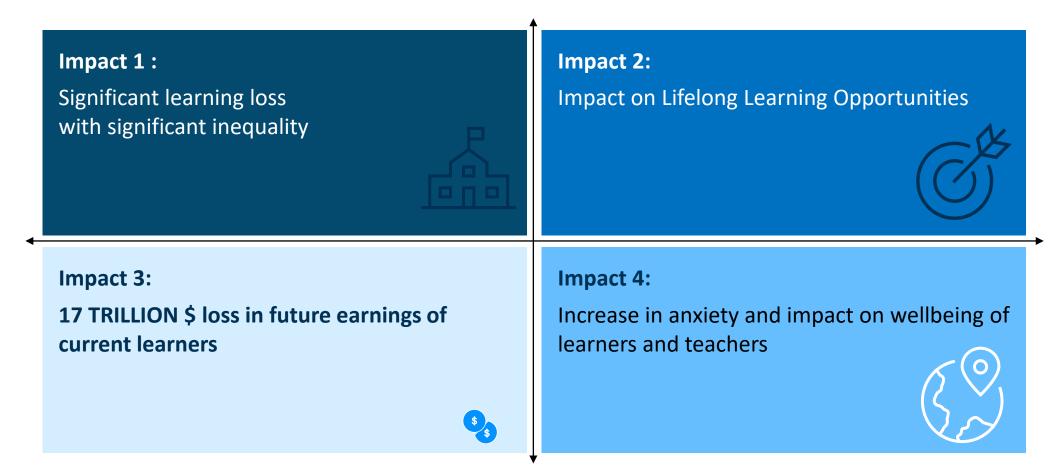
A disrupted Global Education and Training Landscape



43,518,726 affected learners
2.8% of total enrolled learners
6 country-wide closures



The COVID-19 Crisis has deep impacts on Education



Emerging Global Digital Learning Ecosystem





































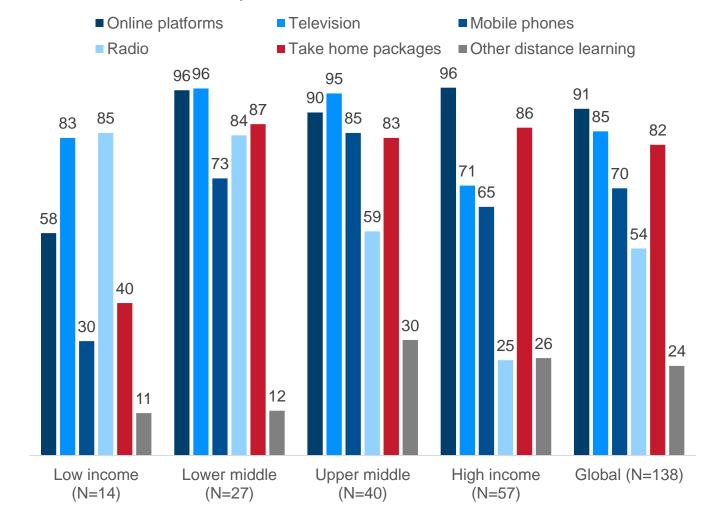




Governments responded to school closures by offering various high- and low-tech remote learning solutions

- TV and radio were more popular among low-income countries, whereas online platforms were the most popular modality in high income countries.
- Most countries provided multiple modalities for remote learning across education levels. More than half of the countries reported using five or more remote learning modalities.
- Combining one-way technologies
 with interactive mobile-based modalities can
 allow tailored feedback from teachers to students,
 and help improve access for marginalized
 children.

Share of respondent countries offering a remote learning modality across at least one education level

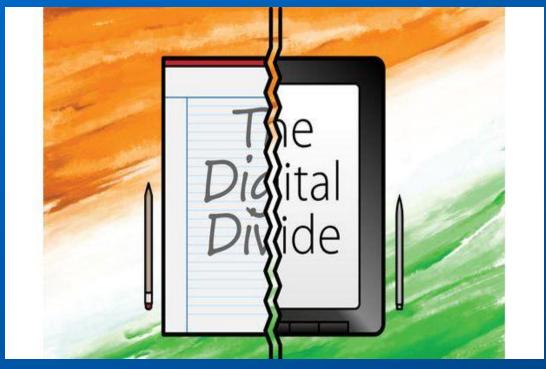


Source: UNESCO-WB-UNICEF-OECD Joint Survey, 2021

The Digital Technology Connects

But also divides









Connectivity Declaration

A Human-Centered Connectivity

1. Centre on most marginalized

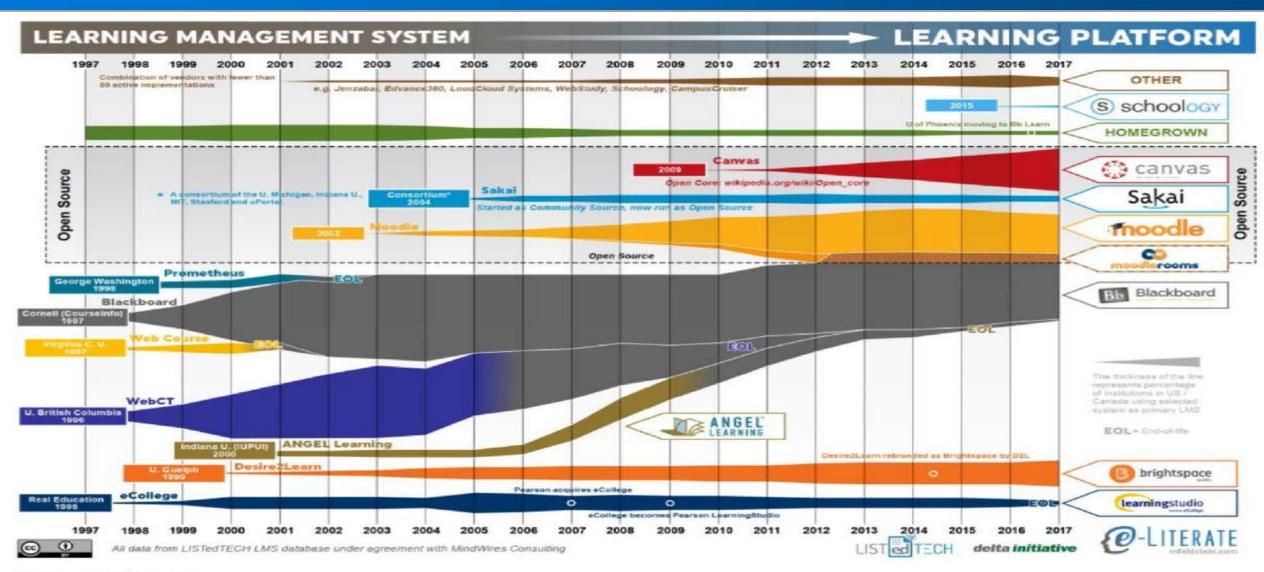
Act to address the digital divide to ensure the right to education

2. Steer Digital Transformation

Digital Transformation should be driven primarily by education needs

3. Expand Investment

Invest in in free and high-quality digital education content



Source: e-Literate





Next Generation of Digital Learning Environment

An ecosystem of interconnected and flexible applications that supports learning through 4 key dimensions.

1. Interoperability

Develop processes, leverage technologies, capacitate actors and set norms/standards

Support all learners and users experience, narrow the digital divide

Invest in data analytics to support decision making

Build community of practices, international cooperation, Join international agreements

2 Interconnected Challenges

Leverage Technology **Responding to**

Protect Learners

For Lifelong Learning Opportunities for All

Learners Data Protection within a Lifelong Learning Perspective



Do we have a vision for interoperability? A New Social Contract for Education

Future of Learning



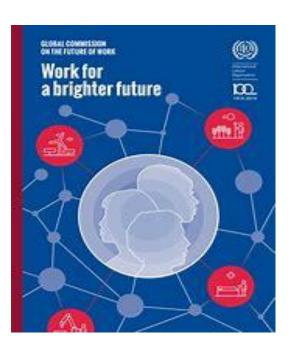
Common Denominators:

- Human-Centered
- Lifelong Learning for all
- Sustainable Economies and Societies

Five Dimensions of Social Contract

- 1. Pedagogy
- 2. Curricula
- 3. Teaching
- 4. Schools
- 5. Learning in all areas of life

Future of Work





Lifelong Learning

Lifelong Learning Journey



- Connecting Learning Spaces
- Understand the Learning experience
- Assessing and Recognizing Learning: Micro-credentialing, stacking and interoperability
- Linking learners with relevant learning opportunities
 - **Culture of Lifelong Learning**

Key actors



- Learners, teachers, managers
- Social partners
- Governance actors
- Providers





- **Quality assurance and technology-driven standards**
- Funding and Partnerships
- Compliance and integration
- Interoperability



Directions for UNESCO's work

- 1. Data <u>protection</u> as fundamental human right
- 2. Data for individualized learning experience and identity
- 3. Privacy by design
- 4. Privacy as trust
- 5. Data as driver for better policy in education and training

Directions for UNESCO's work

Data transparency: How do we ensure that data is transparent, open to be analyzed and understood by all, without causing insurmountable ethical issues?

Data fairness: How do we ensure that the data fairly represents all learners equitably?

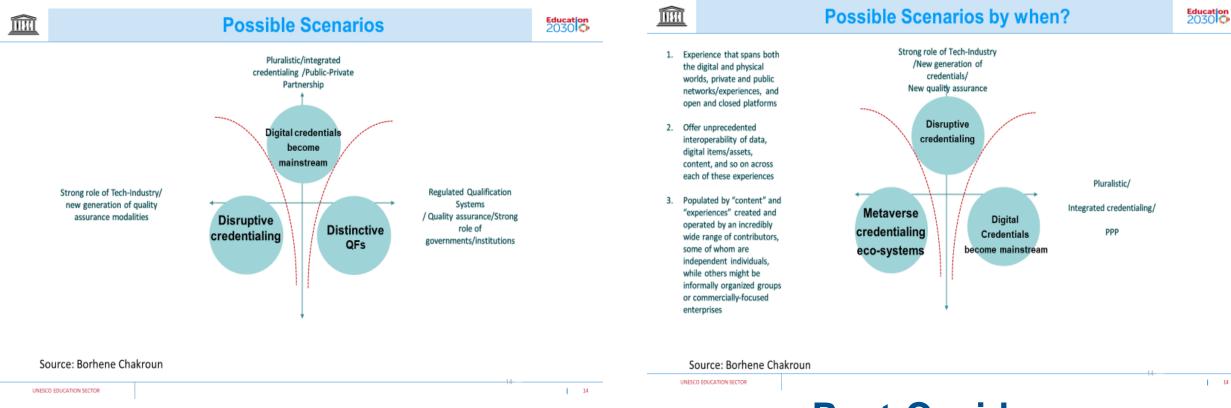
Data equity: What measures are needed to mitigate potential bias by gender, ethnic grouping, religious affiliation, demographic group, socio-economic status, etc., within education planning processes that use advanced analytics against data profiling (or deterministic algorithmic interference)?

Data privacy: How do we ensure data privacy and anonymity when data-mining makes it possible to de-anonymize apparently anonymized data; and how do we prevent and mitigate data breaches and surveillance?

Data ownership: How do we resolve who owns the data IP, the EdTech provider or the learner, especially given that the learner usually owns the IP of anything else that they create, such as a poem or a painting?

Data and the common good: How do we reconcile data captured by commercial players ultimately for profit, with data captured and analyzed for the common good? How can data help to advance SDG4 and the 'right to education'?

"We tend to overestimate the effect of technology in short-run and underestimate the effect in long run" Roy Amara in in The Age 31 October 2006



Pre-Covid thinking







Thank you

Learn more: www.unesco.org/education



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