

### **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

Source: https://en.unesco.org/covid19/educationresponse#schoolclosures



### The COVID-19 Crisis has deep impacts on Education







### **Emerging Global Digital Learning Ecosystem**



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Learning from home











# 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



# The Digital Technology Connects

### But also divides







# **Connectivity Declaration**

### A Human-Centered Connectivity









#### Source: e-Literate





# **Next Generation of Digital Learning Environment**

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







# 2 Interconnected Challenges **Responding to** Leverage **Protect Learners** Technology **Learners Data Protection** For Lifelong Learning within a Lifelong Learning **Opportunities for All** Perspective

# Where do we go from here?

### **Future of Learning**



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### 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

### **Enabling Multi-layers factors**

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





## **Directions for UNESCO's work**

- 1. Data protection 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







# Thank you

Learn more: www.unesco.org/education



Borhene Chakroun Director, Division for Policies and Lifelong Learning Systems, Education Sector, UNESCO





United Nations Educational, Scientific and Cultural Organization

