Sustainable Development Goals and Technology-enhanced Learning

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SUSTAINABLE DEVELOPMENT GOALS

1 NO POVERTY	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	4 QUALITY EDUCATION	5 GENDER EQUALITY	6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY	8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION	14 LIFE BELOW WATER	15 LIFE ON LAND	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	17 PARTNERSHIPS FOR THE GOALS	

https://www.un.org/en/sustainable-development-goals

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SDG 4

Quality Education for All

https://www.undp.org/publications/future-knowledge-foresight-report-leveraging-transformative-capacities-meet-future-risks
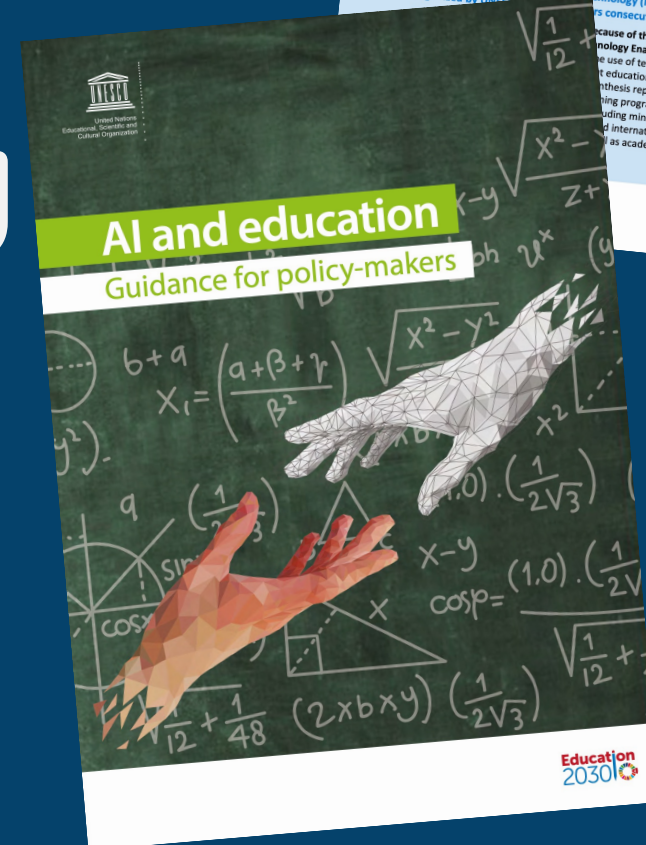
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→ free education for all children
→ joint learning outcomes
→ affordable and quality education for adults
→ skills for employment, decent jobs and entrepreneurship
→ equal access to all levels of education
→ both men and women achieve literacy and numeracy
→ supply of qualified teachers

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UNESCO

→ **Mobile Learning**
→ **AI in Education**

Beyond Disruption: Technology Enabled Learning Futures
2020 Edition of Mobile Learning Week
12-14 October 2020
Report

Mobile Learning Week (MLW) is the United Nations' flagship event on Information and Communication Technology (ICT) in education, and has been organized by UNESCO for eight years.

...cause of the COVID-19 pandemic, was devoted ...hnology Enabled Learning Futures. The three-day ...t education systems against the backdrop of ...use of technology to ensure learning ...nthesis report consolidates, showcases and ...ning programmes shared by more than 3,000 ...uding ministers, representatives from ...d international organizations, together with ...l as academic institutes.

AI and education
Guidance for policy-makers

United Nations
Educational, Scientific and
Cultural Organization

Education 2030

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2019: Bejing Consensus on AI and Education – 36 Action Points

- Educational opportunities for teachers

- Review and define teachers' roles and required competencies

- AI literacy skills

- Create a massive pool of local AI professionals

- AI for flexible learning

- AI for the recognition and transfer of individual learning outcomes

UNESCO

United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation,
la science et la culture

Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

منظمة الأمم المتحدة
للتربية والعلم والثقافة

联合国教育、
科学及文化组织

BEIJING CONSENSUS
on artificial intelligence and education

CONSENSUS DE BEIJING
sur l'intelligence artificielle et l'éducation

CONSENSO DE BEIJING
sobre la inteligencia artificial y la educación

ПЕКИНСКИЙ КОНСЕНСУС
по искусственному интеллекту и образованию

北京共识
人工智能与教育

توافق بيجين
بشأن الذكاء الاصطناعي والتعليم

Education 2030

https://unesdoc.unesco.org/ark:/48223/pf0000368303

UNESCO AI in Education

- Data ethics and algorithmic biases
- Gender-equitable AI and AI for gender equality
- The use of AI in education
- Impact of AI on teacher roles
- Impact of AI on learner agency

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UNESCO Mobile Learning

- Digital competencies
- Disruption of educational processes
- Improve the quality of learning
- Computer, mobile phone, & TV a lifeline to education

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Solo-Exercise 1a: Use Cases

What is your contribution to SDG4?

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Solo-Exercise 1b: Use Cases

What are the challenges for your contributions?

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Interoperability

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Interoperability is about playing together

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Interoperability in TEL

- SCORM (Packaging)
- IEEE LOM (Metadata/Discoverability)
- IMS[1] LTI / LIS (Access / Learner Information)
- IMS QTI (Assessment & Testing)
- IMS LD (Educational Design)
- ADL XAPI / TLA (Tracking)
- Caliper Analytics (Tracking)

[1]: IMS – 1EdTech

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Interoperability in TEL

Year 2000 Problems

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[1]: IMS – 1EdTech

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What is your part?

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Peer Exercise: Integrations

How do you connect your results for a joint solution?

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Keep changing
Keep innovating

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