OECD
BETTER POLICIES FOR BETTER LIVES

Digital education for a strong recovery: A forward look

An international conference organised by the
OECD Centre for Educational Research and Innovation (CERI)

Tuesday 8 – Thursday 10 June 2021
Virtual conference
All times refer to France's time zone (CEST / GMT+2)

Register here

Draft Agenda: version 6 June 2021

Background

Digitalisation is transforming societies, providing new opportunities to improve education in the classroom, enhance the management of education systems, but also to consider innovative models of delivery. The health pandemic has accelerated and cast a spotlight on the importance of digitalisation. Countries' current digital learning infrastructure has to be reconsidered, including teachers' ability to use it efficiently. The conference will highlight advances in educational technology based on artificial intelligence (AI), robotics and blockchain. It will also start a dialogue between policy makers, education stakeholders, the global education industry and experts in the field, with a view to sharing knowledge and information, but also to start thinking of related policy issues, international opportunities for collaboration, and strategies about embracing and driving the digital transformation in education.

Beyond short keynotes (one per day), the virtual conference will have 4 themes to help participants select their sessions:

General strand with key decision-makers: sessions with Ministers, leaders of international organisations and other education stakeholders

Expert strand on the frontiers of education

Policy strand on countries' digital strategies

Futures strand with education technology industry and two closed workshops

The conference targets policy makers, experts, innovators, and other stakeholders from OECD countries and partner economies to share experiences and reflect on how to further advance effective and equitable digitalisation in education.

Objectives

1. To share evidence about the state of digitalisation and use of smart technologies and data in education
2. To share and discuss innovative approaches and policies to harness digitalisation in education
3. To discuss possible futures of education in the light of ongoing trends and lessons from the pandemic
4. To engage a variety of stakeholders in a dialogue on digital education for further work in this area.

The working language of the conference will be English.

DAY 1 – TUESDAY 8 June

9:00-11:30	Interactive workshop: future education scenarios (schooling)
	This "futures scenarios" workshop will be facilitated by the Smart Data and Digital Technology team to contribute to the next phase of the project. The objective will be to elicit views from participants about futures scenarios, and make them work on a "continuity" and "disruptive" scenario. It will focus on schooling.

12:00-14:00	Opening: digital education outlook
	This session will launch the new OECD report "Digital Education Outlook: Pushing the Frontiers with AI, Blockchain, and Robots". OECD will present the reports' findings and bring together our expertise on digital education as well as a broader forward-looking vision for upcoming transformations. The session will also provide an overview of where we stand in the digitalisation of education and what is coming. This session will give participants a good overview of the solutions, debates and policy issues related to the digital agenda in education. • Ulrik Vestergaard Knudsen, Deputy Secretary General, OECD • Andreas Schleicher, Director for Education and Skills, OECD • Andrew Ng, CEO, Landing AI and Deep Learning AI, United States • Alejandro Tiana Ferrer, Education Secretary of State, Ministry of Education, Spain • John Bangs, Chair, OECD Working Group on Education and Skills • Deborah Corrigan, Professor, Monash University, Australia • Stéphan Vincent-Lancrin, Senior Analyst, OECD • Miraal Kabir, Student, University of Waterlook, Canada Moderator: Anthony Mackay, CEO, NCEE, United States

14:00-15:00	Building a framework for research on digital education worldwide
	The application of new technologies for teaching and learning have, however, far outstripped our evidence-based knowledge of what digital innovations and methodologies enable learning, why, and for whom. This session takes up this topic with leading scholars in digital education and technological innovation worldwide. • Dragan Gasevic, Professor, Monash University, Australia • Nancy Law, Professor, University of Hong Kong, China • Jeremy Roschelle, Executive Director, Digital Promise, United States Moderator: Felice Levine, Executive Director, AERA, United States

15:00-16:00	Digital education policy: Perspectives from Chile, France, and the United States
	This session will allow member countries to present their current interests, investments and policy questions around digital education. • Alain Thillay, Head of Department, Ministry of National Education, Youth and Sport, France • Kristina Moss Guðrún Gunnarsdóttir, Fellow, Department of Education, United States • Sebastian Marambio, Director, Ministry of Education, Chile Moderator: Aune Valk, Vice Rector for Academic Affairs, University of Tartu, Estonia

16:00-17:00	**Views from EdTech: trends and opportunities**
	This session will bring in the voice of the Edtech companies and Edtech perspectives: what would help them invest more? How do they see the digital transformation? • Alex Spiro Latsis, Partner, Brighteye Ventures, Luxembourg • Anthony Salcito, Vice President, Global Education, Microsoft, United States • Daniel Bialecki, CEO, Scoyo, Germany • Caroline Wright, CEO, BESA, United Kingdom Moderator: Andreas Schleicher, Director for Education and Skills, OECD

17:00-17:45	**Q&A with Melanie Mitchell**
	This session will allow to understand better the promises and limitations of artificial intelligence, as well as what the big questions of the field currently are. • Melanie Mitchell, Professor, University of Santa Fe, United States Moderator: Dominique Guellec, Observatory of Science and Technology (OST), France

DAY 2 – WEDNESDAY 9 June

9:00-10:00	**Digital education policy: perspectives from Korea, Belgium and Hungary**
	This session will allow member countries to present their current interests, investments and policy questions around digital education • Hyeseung Maria Chang, Director, KEDI, Korea • Ádám Horváth, Digital education expert, Digitális Jólét, Hungary • Ellen Vanderhoven, Deputy Director, Flemish Ministry of Education, Belgium Moderator: Renata Hall, Analyst, SAA VS, Slovak Republic

10:00-11:00	**Robots in education: where are we at?**
	This session will focus on the use of social robots and telepresence robots in education at different levels and discuss the possibility of automating teaching • Tony Belpaeme, Professor, Ghent University, Belgium • Fumihide Tanaka, Associate professor, University of Tsukuba, Japan • Vasiliki Charisi, JRC Europe Moderator: Stéphanie Jamet, Senior Analyst, OECD

11:00-11:30	**Q&A with Nicol Turner Lee**
	This session will allow to understand better how to address possible biases of smart technologies, notably algorithmic bias. • Nicol Turner Lee, Director of Center for Technology Innovation, Brookings Institution, United States Moderator: Stéphan Vincent-Lancrin, Senior Analyst and Deputy Head of Division, OECD

12:00-13:00	**Digital education policy: ministerial perspectives**
	This session will be a roundtable with education ministers (or former) who have invested a lot in technology. • Giovanni Biondi, President, INDIRE, Italy • Anita Karwal, Secretary, Ministry of Education, India • Mart Laidmets, Secretary General, Ministry of Education and Research, Estonia Moderator: Andreas Schleicher, Director for Education and Skills, OECD

13:30-14:00	**Q&A with Ryan Baker**
	This session will allow to discuss the big questions of digital technology in education with the scientific advisor and co-author of the publication "Digital Education Outlook". • Ryan Baker, Associate Professor, University of Pennsylvania, United States Moderator: Stéphan Vincent-Lancrin, Senior Analyst and Deputy Head of Division, OECD

14:00-15:00	**Improving educational equity and inclusion with technology**
	This session will show the power of personalisation in both academic and socio-emotional learning skills (learning engagement). • Alex Bowers, Associate Professor, Teachers College, Columbia University, United States • Judith Good, Professor, University of Amsterdam, Netherlands Moderator: Marieke Vandeweyer, Senior Policy Analyst, OECD.

15:00-16:00	**Smart classrooms: supporting teachers with data analytics**
	This session will focus on classroom analytics and how new digital tools can support teachers in a classroom environment (or support their professional learning). • Pierre Dillenbourg, Professor, École polytechnique fédérale de Lausanne, Switzerland • Miguel Nussbaum, Professor, Pontificia Universidad Católica, Chile Moderator: Glenda Quintini, Senior Economist, OECD

16:00-17:00	**Towards a new generation of assessment**
	This session will focus on how assessments could be transformed and in which cases thanks to AI and other digital technologies. • Jack Buckley, Head of Assessment and Learning Sciences, Roblox, United States • Alina von Davier, Chief of Assessment, Duolingo, United States Moderator: Mario Piacentini, Senior Analyst, OECD

17:00-18:00	**Teacher spotlight: innovating music teaching with digital tools**
	In this session, teachers will talk about how digital technology can make music education more creative and engaging for students (and themselves). • Anne Fennell, K-12 Music Programme Manager, San Diego Unified School District, United States • Kamel Friha, Music Teacher, Ministry of Education, France • Kari Saarilahti, CEO, Into School, Finland • Janne Hiedanniemi, Head of Education, Into School, Finland Moderator: Peggy Brandon, Director, Mocca, Netherlands

DAY 3 – THURSDAY 10 June

10:00-11:00	**Teacher spotlight**
	In this session, teachers will share their experiences with the use of digital technologies in different educational contexts and their views on the future of technology for education. • Stavey Linardatou, Maths Teacher, S. Avgoulea-Linardatou School, Athens , Greece • Ranjitsinh Disale, Teacher, Zilla Parishad Primary School, India • Kathrin Boeke, Teacher, Gesamtschule Lengede, Germany Moderator: Matthias Rumpf, Deputy Head of Berlin Centre, OECD

11:00-12:00	**Views from EdTech: trends and opportunities**
	This session will bring in the voice of the Edtech companies and Edtech perspectives: what would help them invest more? How do they see the digital transformation? • BVR Mohan Reddy, Chairman, Confederation of Indian Industries, India • Diana Gan, Executive Director, EIM Ventures, Singapore • Sophie Yifan Chen, China Director, Discovery Education, China • Maria Spies, CEO, HolonIQ, Australia Moderator: Gavin Dykes, Co-founder and chair, Education Fast Forward, United Kingdom

12.00-13:00	**AI in society: Interdisciplinary perspectives from the OECD**
	This session will allow participants to know about different ongoing projects related to AI within the Organisation. • Andrew Wyckoff, Director, Directorate for Science, Technology and Innovation (STI) • Stefano Scarpetta, Director, Directorate for Employment, Labour and Social Affairs (ELS) • El Iza Mohamedou, Head, Centre for Skills (SKC) • Andreas Schleicher, Director, Directorate for Education and Skills (EDU) Moderator: Ulrik Knudsen, Deputy Secretary General, OECD

13:00-14:00	**Learning analytics at the organisation and system levels**
	This session will focus on the use of AI and learning analytics in higher education and schooling, either at the organisational of class level, with a few concrete examples. • Dirk Ifenthaler, Professor, University of Mannheim, Germany • Alyssa Wise, Professor, NYU Steinhardt, United States Moderator: Thomas Weko, Senior analyst, OECD

14:00-15:00	**Perspectives from the European Union, OECD, UNESCO, and the World Bank**
	This session will facilitate a dialogue with other international (or supra-national) organisations on the digitalisation agenda and the futures of learning, with a global perspective. • Stefania Giannini, Assistant Director General for Education, UNESCO • Jaime Saavedra, Global Director for Education, World Bank • Andreas Schleicher, Director for Education and Skills, OECD • Themis Christophidou, Director-General for Education, Youth, Sport, Culture, European Commission Moderator: Ulrik Knudsen, Deputy Secretary General, OECD

15:00-16:00	**Blockchain and the new credential ecosystem**

This session will show how blockchain is opening new possibilities for digital degrees, credentials (and digital identities)

- Natalie Smolenski, Head of Business Development, Hyland Credentials, United States
- Adam Lemmon, Manager, Convergence.Tech, Canada
- Anthony Camilleri, Policy Consultant, Everis, Slovenia

Moderator: Sharon Leu, Jobs for the Future (JFF), United States

15:00-17:30	**Interactive Workshop: Future Education Scenarios (higher education)**
	This "futures scenarios" workshop will be facilitated by the Smart Data and Digital Technology team to contribute to the next phase of the project. The objective will be to elicit views from participants about futures scenarios, and make them work on a "continuity" and "disruptive" scenario. It will focus on schooling.

16:00-17:00	**Personalisation of learning**
	This session will show the power of personalisation in both academic and socio-emotional learning skills (learning engagement).

- Inge Molenaar, Professor, Radboud University, Netherlands
- Sidney D'Mello, Assistant Professor, University of Colorado Boulder, United States

Moderator: Barbara Schneider, Professor, Michigan State University, United States

17:00-18:00	**COVID-19: lessons for digital education**
	Building on these education continuity stories, this session will bring together the lessons from the pandemic related to technology, including the use of many low tech solutions, to reimagine the future of education in different contexts.

- Fernando Reimers, Professor, Harvard University, United States
- Leda Milena Muñoz García, Executive Director, Fundación Omar Dengo, Costa Rica
- Lúcia Delagnello, CEO, Innovation Centre for Brazilian Education (CIEB), Brazil

Moderator: Cristobal Cobo, Senior Education Specialist, World Bank

18:00 - 18:30	**Q&A with Andrew Ng**
	This session will allow to discuss the big questions of digital technology in education with:

- Andrew Ng, VP & Chief Scientist of Baidu; Co-Chairman and Co-Founder of Coursera; and an Adjunct Professor at Stanford University, United States

Moderator: Andreas Schleicher, Director, Directorate for Education and Skills (EDU)