# Provisional Programme

## Day 1: Workshops and Innovations

### Monday, 2 March 2020

The Workshops will facilitate demonstrations of innovative policies, research, projects, and solutions that use AI tools and frontier technologies that promote inclusion in education and learning. The presenters have been selected from a wide range of international organizations, NGOs, private stakeholders, governmental agencies, civil societies and academic institutions.

The Innovations will feature finalists from UNESCO's Call for Innovations, which sought AI in education solutions to address the world's most pressing challenges for inclusive, accessible quality education for all. It aims to incubate partnerships through identifying innovations and innovators from around the world that work towards the public good and are open to partnerships to scale their innovative solutions. The best innovations have been selected from an array of innovators, non-profits, start-ups, companies and organizations.

| 8:00 – 9:00 | Registration and welcome coffee| UNESCO, 125 Avenue de Suffren, Paris | |
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| 9:00 – 10:30 | **Presentation of innovations**<br>*Master of Ceremony:* Valtencir Mendes, Project Officer, Unit for ICT in Education, UNESCO | |
| | **Innovations welcome**<br>▪ UNESCO | Room II |
| | **Innovations showcase** | |
| | **StorySign: Helping deaf children learn to read**<br>▪ Mr Ivo Van Den Brand, Huawei | |
| | **TrueLearn: AI-powered learning algorithm providing inclusive, multi-modal, cross-lingual and quality lifelong learning opportunities for all**<br>▪ Ms Maria Perez-Ortiz, University College London, *UK* | |
| | **Artificial intelligence design for autism: A custom education**<br>▪ Ms Corinne Schillizzi, NTT DATA, *Italy* | |

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| | **AI to recognize learning patterns and enable personalized high-quality learning**<br>▪ Ms Joleen Jing Liang, Squirrel AI Learning, *China* | |
| | **Sophya: The AI-powered 'Spotify' of learning**<br>▪ Mr Vishal Punwani and Ms Emma Giles, Sophya, *USA, Australia, Laos* | |
| 10:30 – 10:45 | **Coffee break** | |
| | **Workshops** | |
| | **Balancing privacy and individualization: UNESCO MGIEP's Inclusive Virtual Learning Platform**<br>▪ Mr Saurabh Roy, UNESCO MGIEP | Room III |
| 10:45 – 12:00 | **Young and 'turned on': Digital spaces delivering comprehensive and inclusive sexuality education for young people**<br>▪ Ms Sally Beadle, Ms Maria Medvedchikova and Ms Yulia Plakhutina, UNESCO IITE, and Mr Konstantin Sidorkov, VK.com, *Russia* | Room VI |
| | **Paving the way to learners' success: HBMSU experience in AI empowered learning analytics**<br>▪ Ms Souma Alhaj Ali, Hamdan Bin Mohammed Smart University, *United Arab Emirates* | Room VII |
| | **Inclusion through AI: Models for online, open and distance learning**<br>▪ Ms Anaïs Malbrand, International Council for Open and Distance Education (ICDE), *Norway* | Room VIII |
| | **Workshops** | |
| | ▪ **Introducing SmartBus, an educational project with a touch of magic**<br>Ms Janice Richardson, Insight, *Luxembourg* | Room III |
| 12:00 – 13:15 | **Trends in the use of frontier tech in education development cooperation**<br>▪ Ms Alexandra Galeitzke, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) and Ms Nora Hauptmann (Betterplace Lab), *Germany* | Room VII |
| | **How can AI make digital curriculum alignment a reality? Join the global conversation.**<br>▪ Ms Shivi Chandra, Learning Equality, *USA* and Jackie Strecker, UNHCR | Room VIII |
| 13:15 – 14:15 | **Lunch break** | |
| | **Innovations showcase (cont.)** | |
| | **Can governments use AI to help educate refugees and others in need?**<br>▪ Mr Will Lock, CENTURY Tech, *UK* | |
| | **Improving literacy, preserving language, and providing inclusion using AI and big data**<br>▪ Ms Mariam Min Chen, Tomorrow Advancing Life Group, *China* | |
| | **Maximizing inclusion and access: Three ways Kitkit School supports vulnerable learners' language needs**<br>▪ Ms Sooinn Lee and Ms Eugine Chung, Enuma, Inc., *USA* | |
| 14:15 – 16:15 | **Improved literacy in school: Reading assessment and reading development with eye tracking and artificial intelligence**<br>▪ Mr Bo Kristoffersson and Mr Lars Lengquist, Lexplore, *Sweden* | Room II |
| | **Making learning to read accessible and fun with Google Bolo**<br>▪ Mr Nitin Kashyap, Google | |
| | **Let's Live in Harmony: A student-centered and teacher-led approach to literacy and social cohesion**<br>▪ Ms Nedjma Koval, Integrated International, *Jordan* and Ms Ruba Al Omari, Queen Rania Al-Abdullah Center for Educational and Informational Technology, Ministry of Education, *Jordan* | |
| 16:15 -16:30 | **Coffee break** | |
| | **Workshops** | |
| 16:30 – 17:45 | **Ensuring digital inclusion in the use of AI in education**<br>▪ Ms Tatiana Murovana, Mr Tigran Yepoyan, Ms Natalia Amelina, UNESCO Institute for Information Technologies in Education (IITE), Ms Dorothy Gordon, UNESCO Information | Room III |

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| | For All Programme and MR Sergey Pankin, International Research Institute for Advance Systems, *Russia* | |
| | **Using AI speech applications learning technologies to create a record of culturally inclusive stories**<br>▪ Mr Brandon Knight and Mr Voicu Simandan, Beijing Royal School, *China* | Room VI |
| | **AI technology anyone can use to build inclusive solutions with no coding experience: A hands-on workshop**<br>▪ Microsoft representatives | Room VII |
| 17:45 –19:00 | **Workshops** | |
| | **The future of AI in education: Systematic survey approaches to design actions in developing countries**<br>▪ ProFuturo Foundation and UNESCO representatives | Room VIII |
| | **Using AI to make STEM content accessible**<br>▪ Mr Brad Turner, Benetech, *USA* | Room VI |
| | **The role of AI in adaptive eLearning**<br>▪ Mr Andrej Nikonov, Cognostics, *Germany* and Mr Tobias Ernst, Kiron Open Higher Education, *Germany* | Room VII |
| 9:30 – 17:30 | **Side event:** Open Education Resources Dynamic Coalition launch (UNESCO) | Room IX |

# Day 2: Symposium

## Tuesday, 3 March 2020

The Symposium is the summit of the week-long events on AI and Inclusion. Over the course of two days, UNESCO will gather participants from around the world and across industries to share experiences and plan joint actions with the goal of promoting both inclusion through AI and the overall advancement of Sustainable Development Goal (SDG) 4. It will feature plenary panel discussions with experts in the field of inclusion in education, AI and education, and keynote addresses from thought leaders working at the intersection of inclusion, learning and AI.

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| 8:30 - 09:40 | **Registration and welcome coffee \| UNESCO, 125 Avenue de Suffren, Paris** | |
| 9:40 – 10:00 | **Opening ceremony**<br>▪ **Ms Stefania Giannini**, Assistant Director-General for Education, UNESCO<br>▪ **Ms Doreen Bogdan-Martin**, Director, Telecommunication Development Bureau, International Telecommunication Union | Room I |
| 10:00 – 10:20 | **Keynote address**<br>▪ **Mr Ken Hu**, Deputy Chairman, Huawei | Room I |
| 10:20 – 12:00 | **Plenary 1 \| Leveraging AI to advance inclusion in access to quality learning opportunities**<br>Innovative experiences and solutions in different contexts have highlighted the potential of AI and digital technologies for promoting quality education and learning opportunities for students and other learners, including on-the-move peoples, those disadvantaged on the basis of gender, disability, social or economic status, ethnic or cultural background, minority languages, or geographic location. Emerging innovative tools also have the potential to enable effective inclusion of students with learning impairments or disabilities and those in marginalized contexts. This subtheme aims to focus on how to leverage AI and data to promote inclusive strategies and solutions for advancing inclusive access to quality learning opportunities. How can big data and data collection and processing technologies, including AI-innovated Educational Management Information Systems (EMIS), be used to precisely diagnose factors of exclusion in education and predict drop-out, in order to inform immediate remedy strategies as well as long-term institutional improvement solutions?<br><br>*Opening remarks:* **Ms Stefania Giannini**, Assistant Director-General for Education, UNESCO<br><br>*Moderator:* **Mr Borhene Chakroun**, Director, Division of Policies and Lifelong Learning, UNESCO<br><br>Panellists:<br>▪ **H.E. Khaled Abdel-Ghaffar,** Minister of Higher Education and Scientific Research, *Egypt*<br>▪ **Mr Tuomo Puumala**, State Secretary to the Minister of Science and Culture, *Finland*<br>▪ **Ms Victoria Ibiwoye**, Founder and Director of One African Child, Youth Representative for the SDG Education 2030 Steering Committee, *Nigeria*<br>▪ **Mr Serge Ebersold**, Professor, Chair on Accessibility and Project Adviser at the European Agency for Special Needs and Inclusive Education, *France*<br>▪ **Demo:** Global Digital Library, NORAD | Room I |
| 12:00 – 14:00 | **Lunch break** | |
| 12:30 – 13:30 | **Innovations Demonstrations and Networking in the exhibition area** | |

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| 14:00 – 14:20 | **Keynote address**<br>▪ **H.E. Ms Mailis Reps**, Minister of Education and Research, *Estonia* | Room I |
| 14:20 – 15:40 | **Partner speeches**<br>*Moderator:* **Valtencir Mendes**, Project Officer, UNESCO<br>▪ **Mr Mansoor Al Awar**, Chancellor of Hamdan Bin Mohammed Smart University, *United Arab Emirates*<br>▪ **Ms Corinna Calhoun**, Senior Director, Microsoft Education<br>▪ **Ms Catherine Du**, Director of TECH4ALL, Digital Inclusion Office, Huawei<br>▪ **Ms Leticia de Rato Salazar-Simpson**, Head of Global Partnerships and Institutional Relations, ProFuturo Foundation, *Spain*<br>▪ **Ms Alexandra Galeitzke**, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) (Betterplace Lab), *Germany* | Room I |
| 15:40 – 16:00 | **Coffee break** | |
| 16:00 – 17:30 | **Breakout session 1.1 \| Using AI and digital innovations to support learners with disabilities**<br>*Moderator:* TBC<br>▪ **Admins: Developing an AI-powered assistant to overcome barriers in disability disclosure and access to support**<br>Mr Tim Coughlan, The Open University, *UK* and Mr Wayne Holmes, Nesta, *UK*<br>▪ **Using AI technology to support students with visual disability in schools**<br>Ms Silvia Elvira Boix Hernández and Ms Maria Teresa Corbella Roqueta, ONCE (Spanish National Blind Organization), *Spain*<br>▪ **Mobile learning with augmented reality to improve inclusion of hearing-impaired children**<br>Ms Susana Herrera, National University of Santiago del Estero, *Argentina*<br>▪ **Distance learning management system for inclusive education**<br>Mr Andrei Savenka, UNESCO Chair on Vocational Education in the Sphere of Information and Communication Technologies of Persons with Special Needs, Institute of Information Technologies of Belarusian State University of Informatics and Radioelectronics, *Belarus*<br>▪ **Data and model training for inclusive AI: A moral case for offline learning**<br>Mr Richard Tibbles, Learning Equality, UNHCR | Room IV |
| | **Breakout session 1.2 \| Developing AI-empowered pedagogies and strategies to address challenges faced by people on the move**<br>*Moderator:* TBC<br>▪ **Scalable AI applications to promote inclusive access to learning in select countries in East and West Africa**<br>Ms Bridget Bannerman, Science Resources Africa, *Sierra Leone*<br>▪ **Education on the move: Pedagogy and platforms that improve teaching using AI and analytics**<br>Ms Diana Woolis, Director, Centre for Learning in Practice, Carey Institute for Global Good, *USA*<br>▪ **Adoption of AI to foster educational success and cohesion of every pupil in Catalonian classrooms**<br>Ms Mar Camacho Marti, Ministry of Education, Generalitat de Catalunya, *Spain*<br>▪ **Crowdfunding teacher salaries for refugee/IDPS camps: "Global compacts on migration and refugees, education cannot wait"**<br>Mr Ishtiaq Hussain and Mr Tamoor Hussain, Social Entrepreneurial Consultants Pvt Ltd, *Pakistan*<br>▪ **AI educational solutions and platforms: The place and perspective in the Russian education system** | Room III |

Mr Ivan Karlov, National Research University Higher School of Economics, *Russia*
- **Mobile science lab project at migrant children's schools development of experiential AI-related science youth course**
  Ms Guihua Wang, Beijing Royal School, *China* (TBC)

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| **Breakout session 1.3 \| Leveraging AI tools and open resources to promote inclusive learning**<br>*Moderator:* TBC<br><ul><li>**OráculoMatemágico: Digital ecosystem for improving the learning of mathematics in Peru's rural and low-income urban areas**<br>Ms Ana Delgado and Ms Elizabeth Galdo Marin, Fundación Telefónica, *Peru*</li><li>**AI tools for equity and the quality of learning: A Finnish innovation ecosystem project**<br>Ms Hannele Niemi and Ms Päivi Kousa, University of Helsinki, *Finland*</li><li>**Intelligent support for the authoring of open accessible learning resources**<br>Mr Ismar Frango Silveira and Ms Maria Amelia Eliseo, Mackenzie Presbyterian University, *Brazil*</li><li>**Learning Cell: An intelligent resource framework in fulfilling adaptive services for mobile learners**<br>Mr Mohamed Ally, Commonwealth of Learning (COL) Research Chair, Athabasca University, *Canada*</li><li>**Steering AI and advanced ICTs for knowledge societies: A rights, openness, access, and multi-stakeholder perspective**<br>Ms Xianhong Hu, UNESCO</li><li>**A digital skills development platform in France**<br>Mr Benjamin Marteau, Pix, *France*</li></ul> | Room VIII |
| **Breakout session 1.4 \| Emerging practices and lessons learned about the use of AI tools to reduce language barriers and promote literacy education**<br>*Moderator:* TBC<br><ul><li>**Intelligent systems and AI tools for inclusion and reading difficulties**<br>Ms Prema Nedungadi and Mr Mithun Haridas, Amrita Vishwa Vidyapeetham University, *India* and Mr Joost Monk, Graduate Institute, *Switzerland*</li><li>**Leveraging AI for scale and inclusion: Early literacy through mobile technology**<br>Mr Tinsley Galyean, Curious Learning: A Global Literacy Project</li><li>**Kumoontun app for learning Ayöök, Oaxaca Mexico**<br>Mr Marco Martinez, Kumoontun Civil Association, *Mexico*</li><li>**Project Alphatic, an APP for training learners and a platform monitoring personalized literacy learning patterns focusing in digital literacy for women**<br>Ms Anne Lemaistre, UNESCO Abidjan Office in Côte d'Ivoire</li><li>**Using digital innovations to promote access to quality learning opportunities for all**<br>Huawei representative</li></ul> | Room IX |

# Day 3: Symposium (continued)

## Wednesday, 4 March 2020

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| 8:00 – 9:00 | **Registration and welcome coffee** \| UNESCO, 125 Avenue de Suffren, Paris | |
| 9:00 – 9:30 | **Introductory remarks: Key takeaway from Symposium Day 1**<br>▪ **UNESCO** representative<br>**Keynote address**<br>▪ **Mr Tom Mitchell**, Professor and Founder of the World's First Machine Learning Department, Carnegie Mellon University, *USA* | Room I |
| 9:30 – 11:00 | **Plenary 2 \| Fostering AI innovations to enhance learning outcomes across learning settings**<br>Innovation is key to building system-wide strategies to tackle the current education crisis. When planning the use of AI in learning, specific focus should be given to the unique potential of data-based learning analytics in helping diagnose and predicting learning deficiencies, and improving the quality of learning. AI and other digital innovations have demonstrated a positive impact on learning outcomes in lower-order skills, such as subject-specific and some interdisciplinary skills. Yet algorithm and AI tools need to be further developed to target the enhancement of learning outcomes in higher-order 'soft skills', global citizenship and other emerging skill sets needed for self-fulfilment and job markets. Equally important, the power of AI for sourcing and curating curricular content across languages and platforms needs to be explored to bridge formal, non-formal and informal learning settings, and to support on-the-job reskilling and upskilling in particular. How can AI tools be developed and used to empower teachers to adopt more inclusive pedagogies, and to help teachers detect learning deficiencies, diagnose varied learning problems and suggest solutions? How can human-machine collaborative AI tools be used or further developed to enhance the quality of subject-specific and interdisciplinary learning, and to support the continuous learning of creativity, critical thinking, global citizenship and other skills needed in different learning settings?<br><br>*Moderator:* TBC<br>▪ **Ms Inge Molenaar**, Researcher, Radbound University Nijmegen, *Netherlands*<br>▪ **Mr Jean Greyling**, Associate Professor, Department of Computing Sciences, Nelson Mandela University, *South Africa*<br>▪ **Mr Joel Hellermark**, founder, SanaLabs, *Sweden*<br>▪ **Ms Kate Arthur,** Founder and CEO, Kids Code Jeunesse, *Canada*<br>▪ **Ms Ethel Agnes Pascua-Valenzuela**, Director, Southeast Asian Ministers of Education Organization Secretariat (SEAMEO)<br>▪ **AI Demo (video): Ms Joleen Liang,** Squirrel AI Learning, *China* | Room I |
| 11:00 – 11:30 | **Coffee break** | |
| 11:30 – 12:50 | **Breakout session 2.1 \| Detecting learning deficiencies and informing more effective and relevant teaching strategies through learning analytics**<br>*Moderator:* TBC<br>▪ **Technology assessment of AI in education: Opportunities and risks for quality education**<br>Mr Clemens Mader, Empa - Swiss Federal Institute for Material Science and Technology, *Switzerland*<br>▪ **A toolkit on education and digitalisation in development cooperation**<br>Ms Alexandra Galeitzke, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), *Germany* and Ms Franziska Pfeifer, GFA Consulting Group, *Germany*<br>▪ **Realizing the potential of education technology and AI to accelerate student learning** | Room VII |

Ms Emiliana Vegas, Center for Universal Education, The Brookings Institution, *USA*
- **Transforming the Colombian education paradigm as we face the fourth industrial revolution**
  Ms Diana Silva, Office of Educational Innovation with the Use of New Technologies, Ministry of National Education of Colombia, *Colombia*
- **Low-code AI tools to build inclusive solutions in education**
  Mr Jamel Gafsi, GM, AI Builder, Microsoft

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| **Breakout session 2.2 \| Orientating the use AI to enhance learning outcomes of disadvantaged groups**<br>*Moderator:* TBC<br>■ **How AI can support schools to improve outcomes for learners from disadvantaged backgrounds**<br> Ms Emma Darcy and Ms Jess Pather, Chiltern Learning Trust, *UK*<br>■ **Smart learning environment to support inclusion of the disadvantaged**<br> Mr Solomon Sunday Oyelere, University of Eastern Finland, *Nigeria*, Mr Darwin Munoz, UFHEC University, *Dominican Republic* and Mr Gabriel Barros, University of Azuay, *Ecuador*<br>■ **Stable contexts and crisis settings: Implementation lessons from digital learning programs in Bangladesh and Malawi**<br> Ms Laura de Reynal, International Rescue Committee, *France* and Mr Antonie Chigeda, Imagine Worldwide, *Malawi*<br>■ **Rumah Belajar: Providing interactive learning materials through machine learning and AI**<br> Mr Hendriawan Widiatmoko, Rumah Belajar, *Indonesia*<br>■ **The International Digital Citizenship Platform**<br> Ms Beatrice Bonami, UNESCO-GAPMIL Youth Ambassador for Latin American and Caribbean Countries, *Brazil* | Room IV |
| **Breakout session 2.3 \| Empowering teachers and inclusive teaching practices through AI technologies**<br>*Moderator:* TBC<br>■ **Learning how people learn to empower teachers and promote equitable opportunities for all children**<br> Mr Agustín Porres, Varkey Foundation, *Argentina*<br>■ **Incorporating artificial intelligence techniques to power up a mobile learning application for teacher professional development**<br> Ms Athra Alawani, Ministry of Education, *United Arab Emirates* and Mr Mohamed Ally, Commonwealth of Learning Research Chair, Athabasca University, *Canada*<br>■ **Empowering Teachers: Creating digital curricula to support diversity and inclusion**<br> Ms Cathleen Norris, University of North Texas, *USA* and Mr Elliot Soloway, University of Michigan, *USA*<br>■ **Teaching and learning competencies for AI from an information access perspective**<br> Mr Colin de la Higuera, UNESCO Chair in Open Educational Resources, Université de Nantes, *France*<br>■ **What do teachers need for AI to help and not hinder inclusive classrooms?**<br> Leila Loupis, International Task Force on Teachers for Education 2030, UNESCO | Room IX |

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| | **Breakout session 2.4 \| Fostering AI to support life-wide skills development across learning settings**<br>*Moderator:* TBC<ul><li>**Leveraging artificial intelligence for technical and vocational education and training: Current practice, future directions**<br>Ms Kelly Shiohira, JET Education Services, *South Africa*<br>Mr Max Ehlers, UNESCO-UNEVOC International Centre, *Germany*</li><li>**LEGO robots online training using virtual robot tool kit**<br>Ms Marwa Soudi and Mr Yasser Tawfik, IdeasGym, *Egypt*</li><li>**Learning analytics in digital education programmes: ProFuturo in Angola case study**<br>Ms Carmen Rodriguez, Enrique Vazquez, ProFuturo Foundation, *Spain, Angola*</li><li>**Presentation of the entrepreneurial digital coding web art creativity project**<br>Ms Maïmouna Sissoko-Touré, Institute of Francophonie for Education and Professional Training (IFEF), Department of School Life of the Ministry of National Education, Technical Vocational and Educational Training, *Senegal*</li><li>**Ruangguru: Enabling direct distance communication between teachers and students**<br>Mr Arman Wiratmoko, Ruangguru, *Indonesia*</li></ul> | Room VIII |
| 11:30 – 13:00 | **Side event: Futures of Education**<br>UNESCO<br><br>Moderator: TBD, Education Research and Foresight, UNESCO<br><ul><li>**Ms Ines Dussel**, Researcher, Department of Education Research, Centre for Research and Advanced Studies (DIE-CINVESTAV), *Mexico*</li><li>**Mr Evgeny Morozov**, Writer and researcher on political and social implications of technology, *Belarus*</li><li>**Mr Ben Williamson**, Chancellor's Fellow, Centre for Research in Digital Education, University of Edinburgh, *UK*</li></ul> | Room III |
| 12:50 – 14:00 | **Lunch break** | |
| 14:00 – 14:20 | **Keynote address**<ul><li>**H.E. Mr Jernej Pikalo,** Minister of Education, Science and Sport, *Slovenia*</li></ul> | Room I |
| 14:20 – 16:30 | **Plenary 3 \| Ensuring non-discriminatory and gender-equitable use of AI for lifelong learning**<br>AI applications can impose different kinds of bias that are inherent in the data and algorithms. The development and use of AI in education must not display or practise bias against any gender, age, minority or vulnerable group. A growing body of evidence shows that women and girls, as well as older people, are being left behind in terms of developing AI skills within a lifelong learning perspective. When this is combined with an intersectionality of inequalities, the gender gap in digital skills further contributes to the low share of women among AI professionals and exacerbates existing gender inequalities. Also, as AI technologies have demonstrated their capacity to aid ageing populations not only in daily life but also in continuing education, it is important to create policies that emphasize access for older populations to digital skills and knowledge. How can bias against any gender, minority or vulnerable group that is built in to algorithms and AI tools be monitored and overturned? How will AI technologies be developed and leveraged to support non-discriminatory and inclusive lifelong learning opportunities for adults – particularly low-skilled adults – and facilitate recognition, validation and accreditation of learning outcomes?<br><br>*Moderator:* **Ms Susan Teltscher**, Head, Capacity and Digital Skills Development Division and Acting Head, ICT Data and Analytics Division, Telecommunication Development Bureau at ITU | Room I |

- **Ms Dorothy Gordon**, UNESCO Information For All Programme
- **Mr Ibrahima Guimba Saidou,** Minister Special Advisor to the President of Niger, *Niger*
- **Mr Ian Kaplan,** Norwegian Afghanistan Committee, director of the Enabling Education Network (EENET), a global inclusion in education information sharing network, *Norway*
- **Ms Florencia Ripani,** Director, Fundación CEIBAL, *Uruguay*
- **Ms Dhwani Trivedi,** Electronics and Communication Engineering student, BVM Engineering College, Vallabh Vidhyanagar, Gujarat Technological University, *India*
- **Ms Valerie Wood Gaiger,** founder of Learn with Grandma, *UK*

**Launch of partnership projects**
*Moderator:* Fengchun Miao, Chief, Unit for ICT in Education, UNESCO
- **Launch of the UNESCO-NORAD partnership on the Global Digital Library and Early-grade Reading**
  NORAD representative and Fengchun Miao, Chief, Unit for ICT in Education, UNESCO
- **Launch of Algorithm Literacy Campaign**
  Canadian National Commission and Kids Code Jeunesse representatives, and Fengchun Miao, Chief, Unit for ICT in Education, UNESCO

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| 16:30 – 16:45 | **Coffee break** | |
| 16:45 – 18:30 | **Side event: Early grade reading with H5P technology**<br>Global Digital Library and NORAD representatives | Room III |
| 16:45 – 18:30 | **Breakout session 3.1 \| Ensuring non-discriminatory use of AI in education**<br>*Moderator:* TBC<br>• **Challenges and opportunities in AI-enhanced education: Inclusion, diversity, and discrimination from an interdisciplinary perspective**<br>Ms Gunay Kazimzade, Technical University of Berlin/Weizenbaum Institute for the Networked Society, *Germany*<br>• **Artificial intelligence and inclusive education: Speculative futures and emerging practices**<br>Mr Jeremy Knox and Mr Michael Gallagher, University of Edinburgh, *UK* and Ms Yuchen Wang, University of Strathclyde, *UK*<br>• **Closing the gap between research and the classroom: Non-discriminatory AI-literacy for students**<br>Ms Jasmine Castro, GSMA, *Spain*<br>• **From fragile to fierce: An AI-education model for preparing communities for 2030**<br>Ms Tara Chklovski, Technovation<br>• **Pedagogy of scale: Building an AI pedagogical framework to remove barriers to scale and enhance inclusion**<br>Ms Cindy Bonfini-Hotlosz, Centreity Learning Solutions, and Ms Rebecca Granato, Bard College, on behalf of UNHCR | Room VIII |

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| | **Breakout session 3.2 \| AI and digital technologies to reduce gender gaps and inter-sectional inequalities**<br>*Moderator:* TBC<br><ul><li>**Artificial intelligence and women empowerment: Challenges for education**<br>Mr Colin de la Higuera, UNESCO Chair in Open Educational Resources, Université de Nantes, *France* and Ms Bhavani Rao, UNESCO Chair in Gender Equality and Women's Empowerment, Amrita Vishwa Vidyapeetham University, *India*</li><li>**Delivering education to the marginalised youth through gaming, artificial intelligence, and data analysis**<br>Ms Talitha Amalia, Solve Education!, *Indonesia*</li><li>**Shaping the digital transformation of higher education**<br>Ms Trine Jensen, International Association of Universities (IAU)</li><li>**Computational thinking and AI in primary and secondary education**<br>Mr José Luis Fernández, Ministry of Education and Vocational Training, *Spain*</li></ul> | Room IX |
| | **Breakout session 3.3 \| Adopting inclusion as a guiding principle for developing and applying AI for lifelong learning**<br>*Moderator:* TBC<br><ul><li>**Developing digital skills for digital inclusion: ITU Digital Transformation Centres Initiative (DTCI)**<br>Mr Mike Nxele, Senior Human Capacity Building Officer, Telecommunication Development Bureau, International Telecommunication Union (ITU)</li><li>**Building partnerships for lifelong learning and the story of one of Africa's youngest AI innovators**<br>Ms Claire Gillissen-Duval, SAP, *France*</li><li>**HBMSU's lifelong learning model: Harnessing AI to extend learning beyond place and time**<br>Ms. Souma Alhaj Ali, Hamdan Bin Mohammed Smart University, *United Arab Emirates*</li><li>**International cooperation for the digitalization, translation and localization of the UNESCO Guidelines for Digital Inclusion**<br>Mr Lorenzo Benussi and Ms Elisabetta Demartino, Fondazione per la Scuola della Compagnia di San Paolo, *Italy* and Mr Paolo Albert, PubCoder, *Italy*</li><li>**Collaboration for inclusion: Capacity building for local innovators and educators through technology experts**<br>Ms Gail Shen, Team4Tech</li><li>**Inclusive education without borders through mutually recognised digital credentials**<br>Mr Zheng Wei Quah, Accredify, *Singapore (TBC)*</li></ul> | Room IV |
| 18:35 – 18:50 | **Symposium Final remarks**<br>*Moderator:* TBC<br><ul><li>UNESCO representative</li></ul> | Room I |

## Day 4: Policy Forum

### Thursday, 5 March 2020

The Policy Forum will offer a unique space to discuss the key policy components for advancing inclusion in education through AI and digital technologies and ensuring the achievement of SDG 4. It will feature a number of Ministers of Education and ICT from an array of countries, various UN agencies and organizations, policymakers and stakeholders.

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| 8:30 – 9:30 | **Registration and welcome coffee \| UNESCO, 125 Avenue de Suffren, Paris** | |
| 9:30 – 9:40 | **Introductory remarks**<br> ▪ UNESCO representative | Room IV |
| 9:40 – 10:00 | **Keynote address**<br> ▪ **Ms Maria Cisternas Reyes,** Special Envoy of the United Nations-Secretary General on Disability and Accessibility | |
| 10:00 – 11:20 | **Session 1 \| Making AI work as a public good for inclusion and equity**<br>To mitigate the risks of polarization between those who have access to AI and those who do not, international cooperation should be solidified to promote inclusive access to AI and digital innovations. UNESCO shared with other UN agencies and international organizations a mission to make AI and digital innovations a public good for all. Platform and repositories have been built curate open-source AI courses, AI tools, AI in education policies, regulatory frameworks for learners' data with a view towards inclusive and equitable use of AI for SDG 4.  What are the public-good AI for education technologies and platform available? How can isolated initiatives be synergized to making open-source AI resources accessible to all?<br><br>*Moderator:* Ms Shafika Isaacs, Specialist in Digital Learning for Social Equity, *South Africa*<br> ▪ **Paolo Artini,** UNHCR Representative France<br> ▪ **Mr Fengchun Miao**, Chief, Unit for ICT in Education, UNESCO<br> ▪ **Ms Kathleen Siminyu,** Regional Network Coordinator (Africa), Artificial Intelligence for Development<br> ▪ **Ms Susan Teltscher,** Head, Capacity and Digital Skills Development Division and Acting Head, ICT Data and Analytics Division, Telecommunication Development Bureau at ITU | Room IV |
| 10:00 - 16:00 | **Interactive exhibition** | Exhibition Space |
| 11:20 – 11:40 | **Coffee break** | |
| 11:40 - 13:00 | **Session 2 \| Leveraging policy to steer the use of AI towards inclusion**<br>AI is not biased in itself, but the adoption of AI in education without appropriate policy regulations and governance has been accompanied by the emergence of cases of violation of data privacy, threats to security education data, misuse of data-based prediction, and intrusive effects to students and teachers. Uncharted issues relating to issues of equity, data privacy and security, AI intrusiveness are looming. Virtually almost no policies have been developed and no regulations have been enacted to address the issues related to ethics, equity, and inclusion raised by the use of artificial intelligence in education What are fundamental issues public policies need to address with a view to ensure a system-wide response to the opportunities and challenges of AI? How can AI and/in education policies steer the development and use of AI towards the achievement of SDG 4? How can benefit-risk assessment of emerging AI in education practices inform the policy planning? | Room IV |

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| | *Introductory remarks and moderator:* **Mr Fengchun Miao**, Chief, Unit for ICT in Education, UNESCO<br>▪ **H.E. Fanuel Tagwira**, Permanent Secretary in the Ministry of Higher and Tertiary Education, Innovation, Science and Technology Development, *Zimbabwe*<br>▪ **H.E. Mabel Gisela Torres**, Minister of Science, Technology and Innovation, *Colombia* (TBC)<br>▪ **Ms Claire Pénicaud Scharwatt**, Director of Policy & Advocacy, GSMA<br>▪ **Mr Vincent Chang**, Brac University, *Bangladesh*<br>▪ **Ms Lidia Stępińska-Ustasiak,** Chairwoman of the Group on Capacity Building Initiatives, International Telecommunication Union, and Department of Foreign Affairs, Office of Electronic Communications, *Poland* | |
| 13:00 - 14:00 | **Lunch break** | |
| 14:00 – 16:00 | **Session 3 | Solidifying international cooperation to promote inclusive access to AI and digital innovations**<br>International cooperation is a vital aspect of steering the use of AI and digital innovation toward inclusion and equity in education. It is important to be mindful of the risks of polarization between those who have access to digital technologies and those who do not. Inclusive access to AI requires an ecosystem built first on reliable infrastructures, innovative financial mechanisms, which for many countries are not yet in place. Global, cross-sectoral, north-south and south-south cooperation and partnerships are crucial. What are the innovative funding mechanisms and partnerships to promote international sharing of data, open-source algorithms, AI technologies and capacity-building programmes to help developing countries catch up and avoid a widened AI divide? What is the role of education in this context? How can international research networks and platforms advance knowledge-sharing and dissemination in the field of AI?<br><br>*Moderator:* **Mr Borhene Chakroun**, Director, Division of Policies and Lifelong Learning Systems, UNESCO<br>▪ **H.E. Ms Gifty Twum-Ampofo**, Deputy Minister of Education in charge of Technical and Vocational Education and Agricultural Training, *Ghana*<br>▪ **H.E. Mr Bruno Jean-Richard Itoua**, Minister of Higher Education, *Congo*<br>▪ **H. E. Mr Nadiem Makarim**, Minister of Education and Culture, *Indonesia* (TBC)<br>▪ **H.E. Mr Abdullahi Godah Barre**, Minister of Education, *Somalia*<br>▪ **Ms Litzie Maarek,** Founding Partner, EDUCAPITAL, *France*<br>▪ **Mr Ali Alyafei**, Minister of Education's Advisor for Information and Technologies, *United Arab Emirates*<br>▪ **Mr Ben Marrel**, Founding Partner of Breega, *UK*<br>▪ **Ms Carla Aerts,** Director of Tmrw Institute, Varkey Foundation | Room IV |
| 16:00 – 16:15 | **Take away message and announcement of partnerships and investments**<br>▪ **Mr Borhene Chakroun**, Director, Division of Policies and Lifelong Learning Systems, UNESCO | Room IV |
| 16:15 – 16:30 | **Coffee break** | |
| 16:30 – 17:50 | **Plenary | Rethinking education for people on the move: The future of inclusive learning**<br><br>In the first half of 2019, 10.8 million people were displaced by conflict and violence, based on projections this number was predicted to at least double by the end of year. In order to achieve SDG 4 and fulfil the critical principles of 'leaving no one behind' and 'reaching the furthest first', education systems must respond to this displacement along | Room IV |

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| | with increasing trends in migration. Technology, particularly advances in Artificial Intelligence, play a vital role in bridging the gaps in the inclusion of people on the move in education systems, whilst ensuring continuity of learning in contexts of human mobility.<br><br>*Moderator:* **Kerstin Holst,** Programme Coordinator, Section of Education for Migration, Displacement and Emergencies, UNESCO<br>- **H.E. Mr Muhyiddine Touq,** Minister of Higher Education and Scientific Research, *Jordan*<br>- **Jackie Strecker,** Connected Education Lead, UNHCR<br>- **UNESCO Cameroon** representative<br>- **UNWRA** representative<br>- **Mr Adrian Haugabrook,** Executive Vice President and Managing Director, Horizon Group at Southern New Hampshire University, *USA*<br>- **Sesame Workshop** representative (TBC) | |
| 16:30 – 17:50 | **Youth panel on AI and inclusion: How youth can be involved in the future of AI and AI-policy on a local, national, and international scale?**<br>*Moderator:* TBC<br>- **Ms Victoria Ibiwoye**, Founder and Director of One African Child, Youth Representative for the SDG Education 2030 Steering Committee, *Nigeria*<br>- **Mr Ishtiaq Hussain**, Social Entrepreneurial Consultants Pvt Ltd, *Pakistan*<br>- **Ms Beatrice Bonami**, UNESCO-GAPMIL Youth Ambassador for Latin American and Caribbean Countries, *Brazil*<br>- **Ms Dhwani Trivedi**, Gujarat Technological University, *India*<br>- **Teens in AI representative** | Room IX |

## Day 5: Strategy Labs

### Friday, 6 March 2020

The Strategy Labs will convene interested partners and stakeholders to develop plans and strategies, launch major initiatives and conceptualize collaborative projects for the acceleration of the achievement of SDG 4.

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| 8:30 – 9:30 | **Registration | UNESCO, 125 Avenue de Suffren, Paris** | |
| 9:30 - 12:30 [**Coffee break** from 11:00 - 11:15] | **Strategy Lab 1 | Schools connectivity: Working towards an E-School framework**<br>- UNESCO, Broadband Commission, Huawei, ITU, ProFuturo and partners | Room VIII |
| | **Strategy Lab 2 | Digital Public Goods Alliance**<br>- NORAD, UNESCO, TMinus30 global initiative-InspiredMinds and partners | Room VII |
| | **Strategy Lab 3 | Challenges and opportunities of AI in education for African countries**<br>- UNESCO Contextual Analysis and Foresight Unit and partners<br>Invitation only. For more information, please contact m.lebreton(at)unesco.org . | Room IV |
| 12:30- 14:00 | **Lunch break** | |

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| 14:00 - 17:00 [**Coffee Break** from 15:15 – 15:30] | **Strategy Lab 4 \| Integrating AI-related skills into school curricula**<br>▪ ERICSSON, UNESCO and partners | Room VIII |
| | **Strategy Lab 5 \| Digital skills and accreditation**<br>▪ DXtera, UNESCO and partners | Room III |
| | **Strategy Lab 6 \| Towards an international task force platform on AI in education**<br>▪ Columbia's Teachers College, UNESCO and partners | Room IV |

## Exhibitions

**Monday 2 March (beginning at 9:00) – Friday 6 March (ending at 12:00)**

**UNESCO Hall Ségur, Salle des pas perdus, and Foyer**

UNESCO, ITU, UNHCR, as well as our sponsors, supporters and innovators, will host a number of demonstrations, side events and information meetings to complement the main programme of UNESCO Artificial Intelligence and Inclusion week #MLW2020. These will facilitate interactive exhibitions, and offer information about AI and digital innovations in education.

## Practical information

- [Getting to UNESCO](#)
- [Suggested hotels](#)
- [Coronavirus (covid-19) outbreak precautionary measures](#)

# Futures of Education

## LEARNING TO BECOME

UNESCO launched the Futures of Education initiative to reimagine how knowledge and learning can shape the futures of humanity in a context of increasing complexity, uncertainty and precarity. The Director–General of UNESCO has convened an independent International Commission to develop a global report on the Futures of Education.

Advances in digital communications, artificial intelligence, and biotechnology are fundamentally transforming the way we live, work, communicate, process knowledge and learn. These technological disruptions hold great promise for improving human welfare.  However, they also raise serious ethical, social and political concerns, especially as past technological innovations have an uneven record of contributing to human flourishing.

**Side event at MLW2020**

The Futures of Education side event on **4th March at 11:30-13:00 in Room III**. proposes to give a short introduction to this flagship initiative and discuss how artificial intelligence and technological advancements might influence the future of education, looking at the year 2050 and beyond.

**Participate in the conversation**

UNESCO invites you to engage in the global debate on the futures of education and provide inputs to the International Commission on the Futures of Education.  One way to get involved is to help spread the word and encourage others to participate in the online engagement platforms listed on our website (https://en.unesco.org/futuresofeducation/):

- Top 3 Challenges and Purposes of Education – Short 2 minute online survey
- Your View on the Futures of Education - Written contributions of max. 1000 words
- Your Vision of Education in 2050 – Submission of artwork

## Stay in touch

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