

IBE SPECIAL ALERT THE FUTURE OF EDUCATION

June 2019

Table of Contents

.....	1
Curriculum	2
ECCE	2
Educational forecasting	2
Education policy and planning	3
Education reform	3
Education system	3
Engagement	3
ESD	4
Future of work	4
Gender	5
Inclusive Education	5
Migration	5
STEM	5
Teachers	6
Technology	6
Worldwide	7
Africa	7
The Gambia	7
Sub-Saharan Africa	7
arab states	7
asia and the pacific	7
Australia	8
Republic of Korea	8
europe and north america	8
Belgium	8
Europe	8
Finland	8
Ireland	8
Russia	8
Spain	8
Turkey	8
United Kingdom	9
USA	9
latin america and the caribbean	9
Argentina	9
Mexico	10
international	10
IBE-UNESCO	10
ILO	10
ITU	11

OECD	11
UNDP	11
UNESCO	11
UNESCO-GEMR	12
UNESCO-MGIEP	12
UNESCO-UIL	12
WEF	12
The World Bank	12

The IBE has compiled this list of resources on Future Competencies to assist curriculum developers, researchers and practitioners.

Most of the publications and documents are freely accessible online. Direct access to the materials is indicated by the symbol: @

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In May 2019, IBE-UNESCO Director Dr. Mmantsetsa Marope delivered the keynote address at the 17th World Congress of Comparative Education Societies (WCCES) on the Future of Education. Dr. Marope's keynote, titled "Shaping the Future of Education or Shaping the Future through Education", hit on a number of challenges currently facing education systems around the world. How do we prepare learners for the trials and tribulations of an uncertain future? The IBE-UNESCO believes that we must ensure that the Future of Education is one that enables learners to acquire the necessary competences and skills that empower them to become self-benefitting agents and global citizens.

(UNESCO-IBE)

Curriculum

Critical thinking for 21st-century education: a cyber-tooth curriculum?

Prospects, IBE-UNESCO, December 2014



@ Future Competences and the Future of Curriculum: A Global Reference for Curricula Transformation
Gallagher, Carmel; Griffin, Patrick; Marope, Mmantsetsa; IBE-UNESCO, 2017

Integration of technology, curriculum, and professional development for advancing middle school mathematics: Three large-scale studies

Jeremy Roschelle, et. al., American Education Research Journal, 2014

@ Intentional ICT: curriculum, education and development

UNESCO-IBE, March 2016

@ Reconceptualizing and Repositioning Curriculum in the 21st Century: A Global Paradigm Shift

Marope, Mmantsetsa; IBE-UNESCO, 2017

@ Transforming Teaching, Learning, and Assessment: A Global Paradigm Shift

Gallagher, Carmel; Griffin, Patrick; Marope, Mmantsetsa; IBE-UNESCO, 2017

ECCE

Improving Access and Quality in early Childhood Development Programs: Experimental Evidence from The Gambia Blimpo, Moussa P.; Carneiro, Pedro; Jervis, Pamela; Pugatch, Todd; The World Bank, February 2019

Project Method in Preparation of Future Preschool Teachers

Anisimova, Ellina; Ibatullin, Rinat; Journal of Social Studies Education Research, 2018

The role of ICT in early childhood education: Scale development and research on ICT use and influencing factors

Johan van Braak, Ruben Vanderline, Stephanie Kerckaert, European Early Childhood Education Research Journal, April 2015

Educational forecasting

@ Education for All: beyond 2015; mapping current international actions to define the post-2015 education and development agenda Narayan, Swati; UNESCO, 2012

@ The Future of Education and Skills: Education 2030

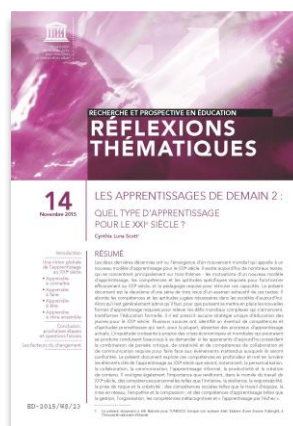
OECD, April 2018

@ The Future of Knowledge: A Foresight Report

UNDP, 2018

@ The Futures of Learning 1: Why Must Learning Content and Methods Change in the 21st Century

Scott, Cynthia Luna; UNESCO, 2015
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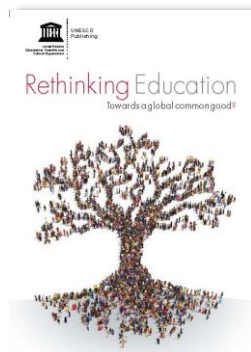
@ The Futures of Learning 3: What kind of learning for the 21st Century?

Scott, Cynthia Luna; UNESCO, 2015
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@ Human learning in the digital era Netexplo, UNESCO; 2019

@ The Blue Dot: Rethinking Learning
UNESCO-MGIEP, January 2018

LEARNING to Realize Education's Promise
The World Bank, 2019



@ Rethinking
Education: Towards a
global common good?
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@ Rethinking education in Catalonia: the
Escola Nova 21 alliance: a case study
Vallory, Eduard; UNESCO, 2019

@ Rethinking schooling: annual report 2018
UNESCO-MGIEP, 2019

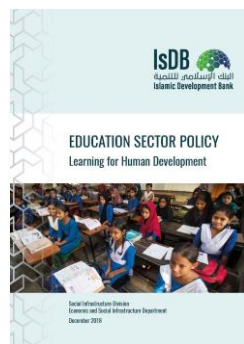
Trends Shaping Education 2019
OECD, 2019

Education policy and planning

@ Bridges to the future of education: Policy
Recommendations for the digital age
CARI and CIPPEC, 2018

Current to Future State: Issues and Action
Steps for State Policy to Support Personalized,
Competency-Based Learning
Frost, Dale; Patrick, Susan; Truong, Natalie;
Worthen, Maria; iNACOL, January 2018

@ Digital Strategy for Schools 2015-2020:
Enhancing Teaching, Learning and
Assessment
Ireland Department of Education and Skills,
2015



@ Education Sector
Policy: Learning for
Human Development
IsDB, December 2018

@ Managing tomorrow's digital skills: what
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comparative indicators?
Fau, Simon; Moreau, Yasmeen; UNESCO,
2018

@ Mapping and analyzing prospective
technologies for learning. Results from a
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roadmaps for policy action
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Technological Studies, 2014

Education reform

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Education system

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Slobodchikov, V. I.; Korolkova, I. V.;
Ostapenko, A. A.; Zakharchenko, M. V.;
Shestun, Y. V.; Rybakov, S. Yu.; Moiseyev, D.
A.; Korotkikh, S. N.; Russian Education &
Society, 2018

Engagement

@ The Future of Education in Latin America
and the Caribbean: Possibilities for United
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ESD



@ Innovación para el desarrollo sostenible
Sanz, Nuria;
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Mexico, 2018

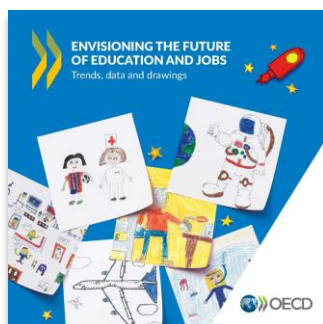
Future of work

@ Accelerating Workforce Reskilling for the Fourth Industrial Revolution: An Agenda for Leaders to Shape the Future of Education, Gender and Work
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Discourse: Studies in the Cultural Politics of Education, 2019

@ Education, skills, and decent work in low and middle income countries: trends and results from an adult skills survey
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Employment Situation in Latin America and the Caribbean
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@ Envisioning the Future of Education and Jobs: Trends, Data and Drawings
Schleicher, Andreas; Achiron, Marilyn; Burns, Tracey; Davis, Cassandra; Tessier, Rebecca; Chambers, Nick;
OECD 2019

The future of work in Latin America and the Caribbean: Education and Health, The Sectors of the Future?

Cruz-Aguayo, Yyannu; Fuertes, Nicolás; Kang, Minji; Robles, Marcos; Schady, Norbert; Zuluaga, Daniela; IDB, January 2019

@ Global Commission on the Future of Work: Work for a brighter future
ILO, 2019

Measuring Human Capital

Angrist, Noam; Djankov, Simeon; Goldberg, Pinelopi K.; Patrinos, Harry A.; The World Bank, February 2019

@ Migration and Jobs: Issues for the 21st Century

Chrisaensen, Luc; Gonzalez, Alvaro; Robalino, David; The World Bank, 2019

Mobilizing Resources for Education and Improving Spending Effectiveness: Establishing Realistic Benchmarks Based on Past Trends

Al-Samarrai, Samer; Cerdan-Infantes, Pedro; Lehe, Jonathan; The World Bank, March 2019

New Technology and Emerging Occupations: Evidence from Asia

Asian Development Bank, 2019

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Returns to Investment in Education: The Case of Turkey

Patinos, Harry Anthony; Psacharopoulos, George; Tansel, Aysit; The World Bank, March 2019

@ Strategies for the New Economy: Skills as the Currency of the Labour Market

WEF, January 2019

Taxation and the future of work: How tax systems influence choice of employment form

Bratta, Barbara; Milanez, Anna; OECD, March 2019

Towards a Reskilling Revolution: A Future of Jobs for All

WEF, January 2018

World Development Report 2019: The Changing Nature of Work

The World Bank, February 2019

Gender

Gender Perceptions of Prospective Teachers: The Role of Socio-Demographic Factors

Esen, Erol; Sagkal, Ali Serdar; Soylu, Yagmur; International Online Journal of Educational Sciences, May 2019



@ A quantum leap for gender equality: for a better future of work for all

ILO, 2019

Inclusive Education

@ Re-orienting Education Management Information Systems (EMIS) towards inclusive and equitable quality education and lifelong learning

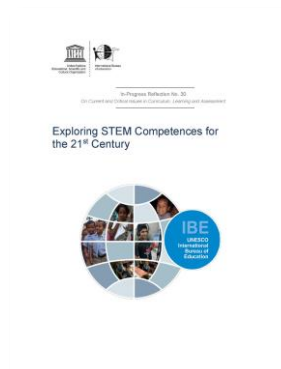
UNESCO, 2018

Migration

@ Global migration and educational expansion: scenarios and projections of population-level interactions

UNESCO-GEMR, 2018

STEM



@ Exploring STEM Competences for the 21st Century

Ng, Soo Boon; IBE-UNESCO, 2019

Future-Ready Skills For All: Inspiring All Students with Coding & STEAM
ASCD, 2019

Teachers

Competency Profile of the Digital and Online Teacher in Future Education
Ally, Mohamed; International Review of Research in Open & Distance Learning, April 2019

Intercultural Education in the System of Training Future Teachers
Achaeva, Marina; Daurova, Anetta; Pospelova, Nadeszda; Borysov, Viacheslav; Journal of Social Studies Education Research; 2018

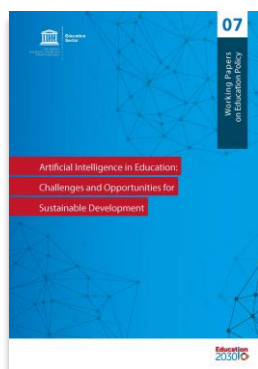
Teacher Education Reform in Ireland: Policy and Process
Hyland, Aine; Education Research and Perspectives, 2018

Teaching in the Fourth Industrial Revolution: standing at the precipice
Doucet, Armand; Evers, Jelmer; Guerra, Elisa; Lopez, Nadia; Soskil, Michael; Timmers, Koen; Abingdon : Routledge, 2018

Technology

@ AI for Good: Paths forward: Progress through innovation
ITU, 2019

@ Artificial Intelligence and the Future of Education: The Blue Dot
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UNESCO-UIL, 2018

Children Learning to Code: Essential for 21st Century Human Capital
The World Bank, 2019

@ Coding skills as a success factor for a society
Multisilta, Jari; Tuomi, Pauliina; Saarikoski, Petri; Suominen, Jaakko; Education and Information Technologies, January 2018



@ Cyberlearning Community Report: The State of Cyberlearning and the Future of Learning With Technology
The Center for Innovative Research in Cyber Learning, 2017

Digital Agency: Empowering Equity in and through Education
Appleby, Lon; Judge, Miriam; Passey, Don; Saito, Toshinori; Shonfeld, Miri; Smits, Anneke; Technology, Knowledge and Learning, 2018

The digital revolution: the impact of the fourth industrial revolution on employment and education
Kenneth Baker, Edge, 2016

Distance Learners' Use of Handheld Technologies: Mobile Learning Activity, Changing Study Habits, and the 'Place' of Anywhere Learning
Cross, Simon; Ellis, Jim; Healing, Graham; Sharples, Mike; International Review of Research in Open & Distance Learning, April 2019

Fostering exploration and excellence in 21st century schools

The Economist, Intelligence Unit; January, 2018

@ The Future of mobile learning: implications for policy makers and planners

C. Shuler, et. al. UNESCO, 2013

French
Spanish



@ ICT Transforming Education in Africa UNESCO-KFIT project update, April 2018

UNESCO-KFIT, April 2018

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Cabrera, Marcelino; Punie, Yves; Tuomi, Ilkka; Vuorikari, Riina; European Commission, 2018

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OECD, September 2016

@ Leveraging information and communication technologies to achieve the Post-2015 Education goal: report of the International Conference on ICT and Post-2015 Education UNESCO, 2015

French

Machine Learning and Human Intelligence: The Future of Education for the 21st Century

Luckin, Rosemary; UCL IOE Press 2018

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Asian Development Bank, 2019

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TechTrends; V.61(4), July 2017

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Worldwide

AFRICA

The Gambia

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ARAB STATES

@ Education Sector Policy: Learning for Human Development

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Europe

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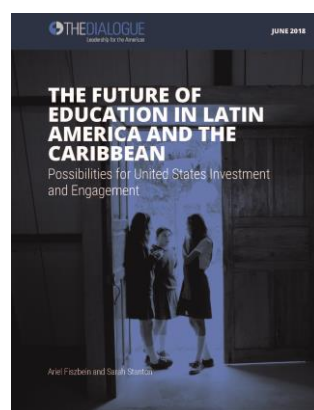
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INTERNATIONAL

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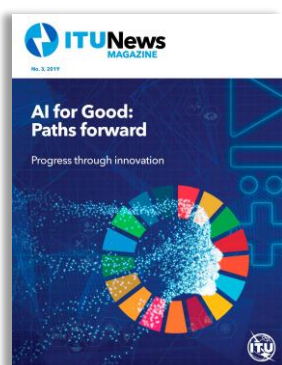
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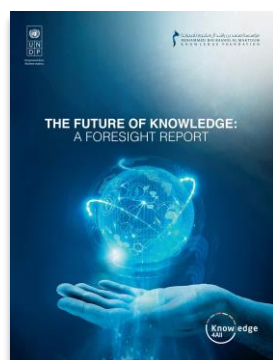
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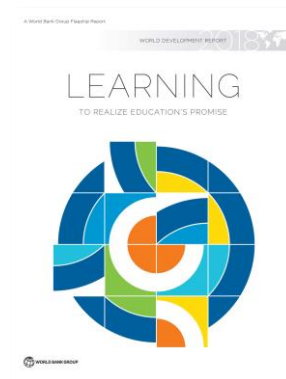
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The World Bank



LEARNING to Realize Education's Promise
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