



Statement by

His Excellency Dr. Majed bin Ali Al Noaimi Minister of Education - Kingdom of Bahrain

Government Leaders Day MENA Innovation 2018



"Teaching in the internet age means we must teach tomorrow's skills today" Jennifer Fleming

Professor and chair in the Department of Journalism & Public Relations at California State University,



Stages of ICT development

01

First stage: Readiness and Preparedness

It is concerned with providing a good infrastructure, including networks and facilities to access information and communication technology.

Third Stage: Impact Measurement

It is concerned with the results and outcomes of the effective usage of ICTs

Second Stage: Intensity of Use

02

03

It is concerned with the level and intensity of information and communication technology usage among the community

The Role of stakeholders in building quality infrastructure to invest in ICT

Governments

• Developing and implementing comprehensive, and sustainable national estrategies through dialogue with the private sector and civil society (Vision 2030, Education Strategies).

Private Sector

 Developing and disseminating information and communication technologies (ICTs), either their content or applications

Civil Society

 Implementing government and private initiatives related to ICT for development purposes.

International & Regional Institutions

 Integrating the use of ICTs in the development process and providing the necessary resources for building the Information Society.

Impact of investment in ICT on the sustainable development of education



Contributes to sustaining the teaching and learning process



While 1 in 7 jobs may be lost due to automation, a further 32% of jobs will change significantly. How can we prepare for this?»

The Organization for Economic Co-operation and Development (OECD) March 2018

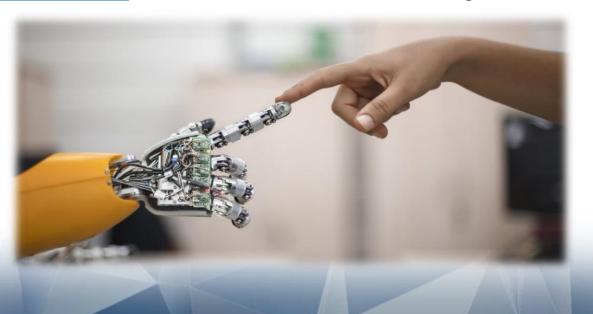
- More than 5.1 million jobs will be lost as a result of labour market changes over the period 2015 to 2020.
 - Digital skills are critical for jobs and social inclusion in a connected world.
 - Among the most important ways to enable students to acquire the innovate skills required for the jobs of the digital economy is strengthening institutional capacities and teachers' digital competencies.

"Skills for a connected world", UNESCO, March 2018





According to an Oxford University analysis, almost <u>half</u> <u>of all jobs will be taken over by</u> <u>robots</u> in the next 25 years.

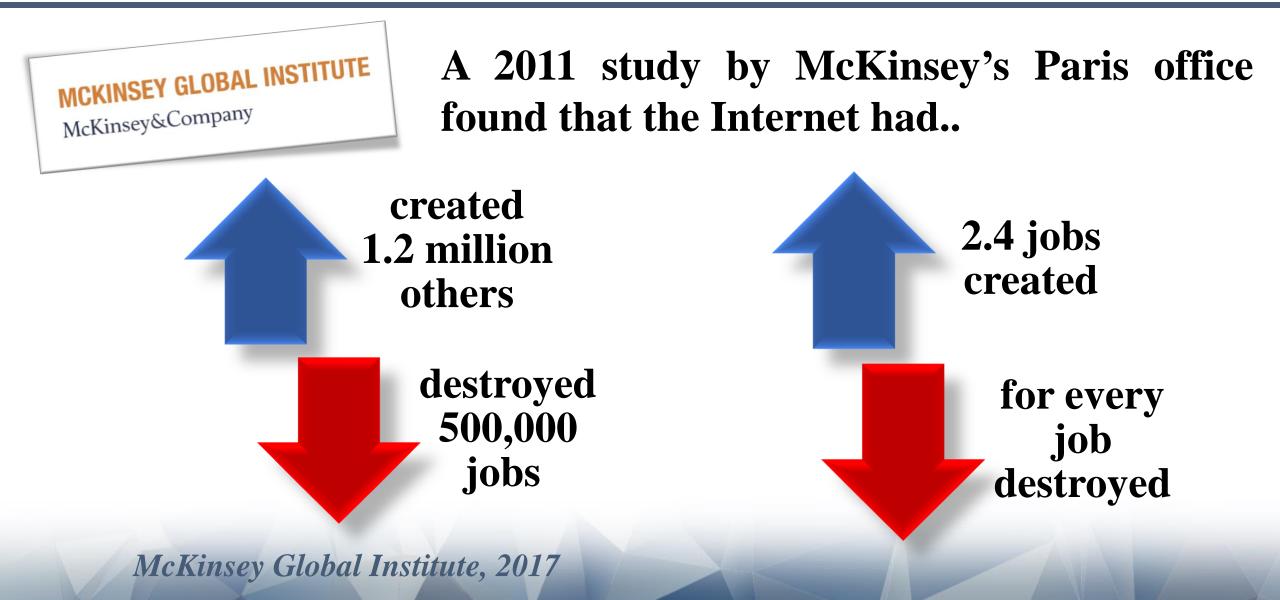




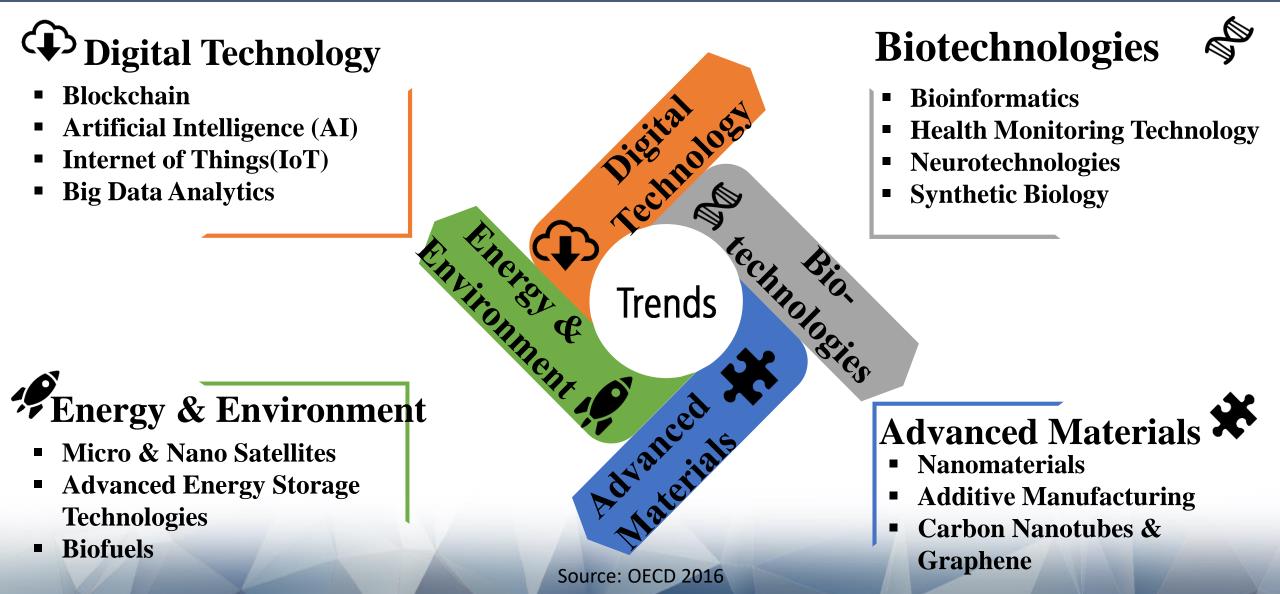
On a global scale, the adaptation of currently demonstrated automation technologies could affect 50% of the world economy, or 1.2 billion employees and \$14.6 trillion in wages.

Even while technologies replace some jobs, they are creating new jobs.

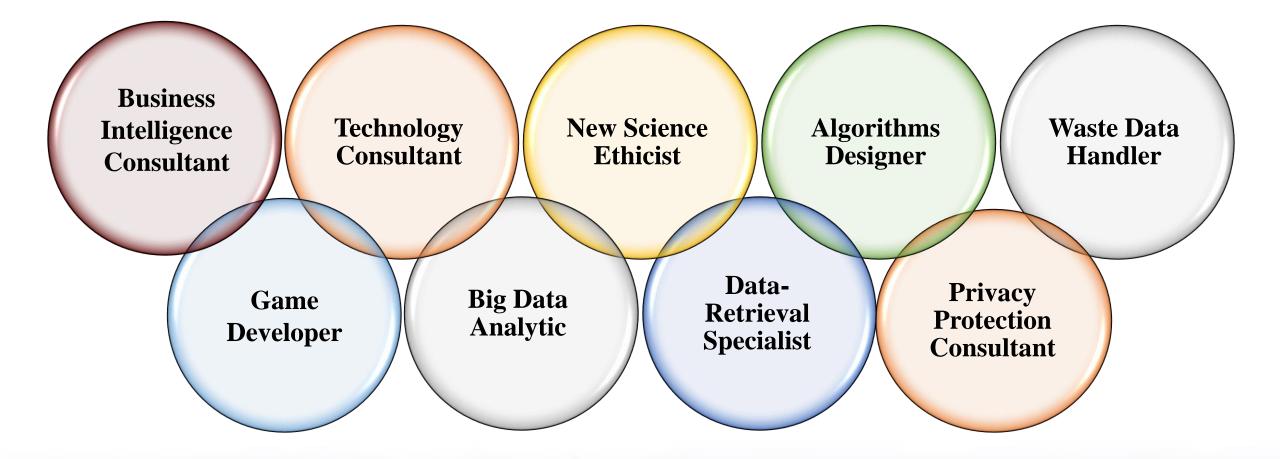
McKinsey Global Institute, 2017



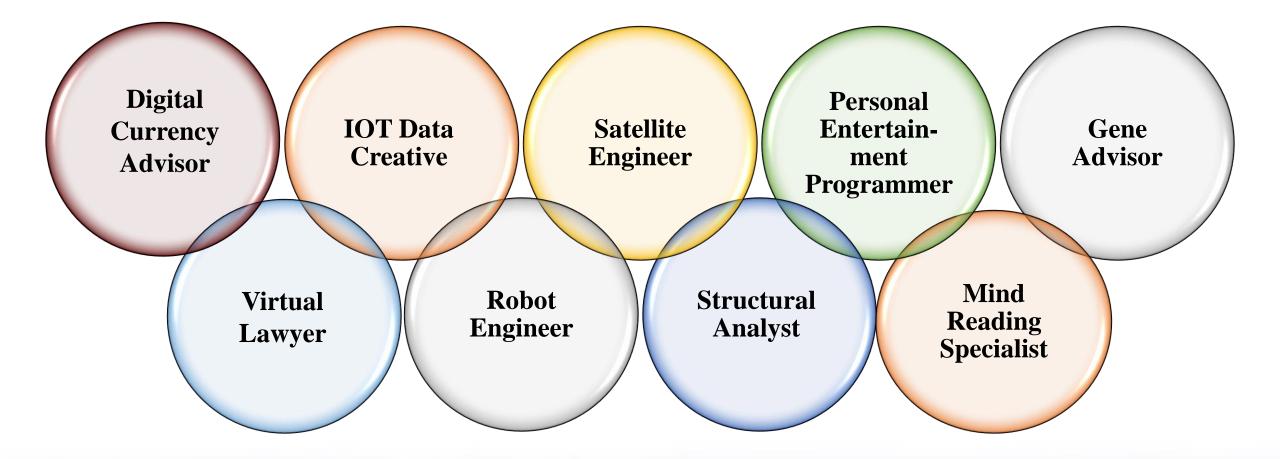
Impact of ICT Employment over the upcoming decades



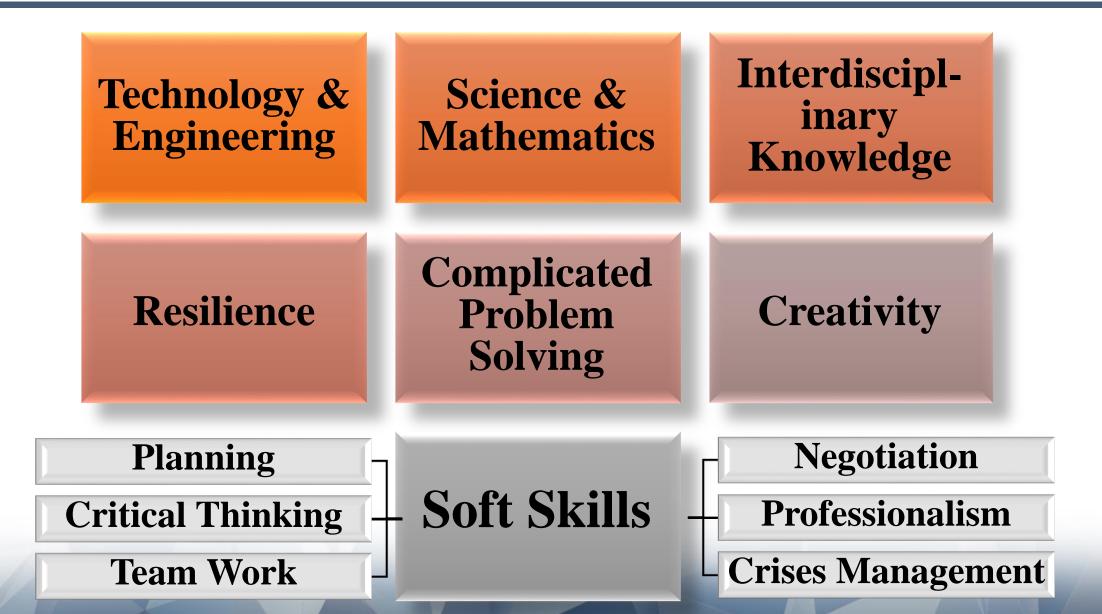
The Impact of Technology on Jobs in the Near- and Long-term Future



The Impact of Technology on Jobs in the Near- and Long-term Future



Skills and Knowledge need more focus in the upcoming years



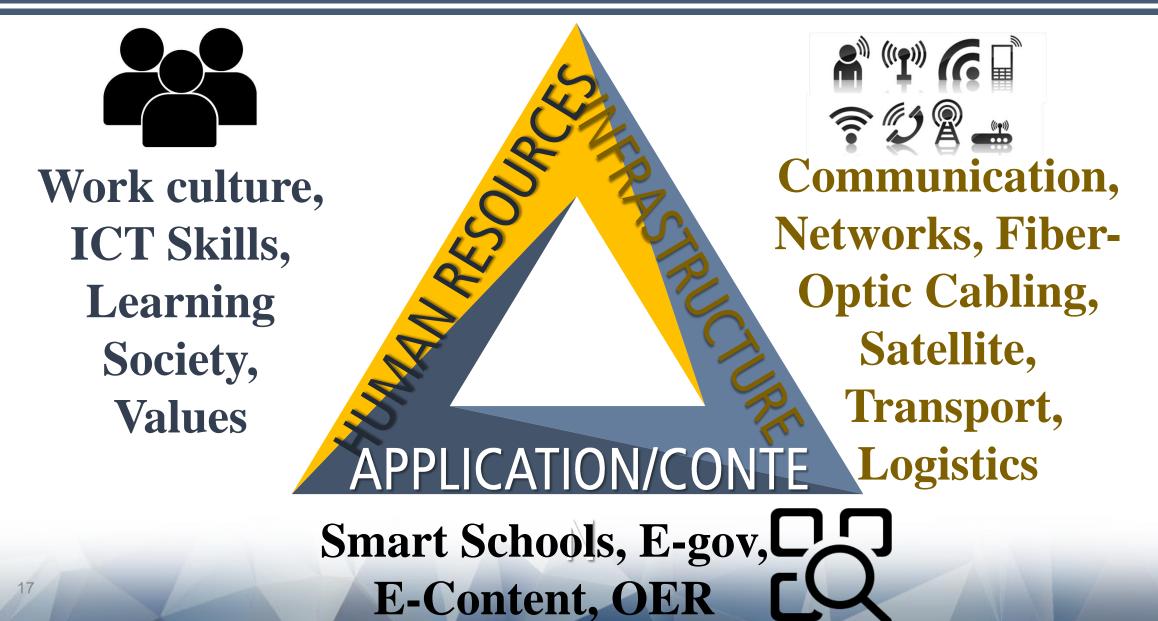
Education System in the Digital Era

Enabling students to acquire the new skills through adopting innovative ways of teaching the academic subjects.

Delivering Education in an applied and relevant way that is aligned with the requirements of our age.

Education system based on enhanced collaboration between the government, civil society, and private sector

Triangle of Effective Integration of ICT in Education

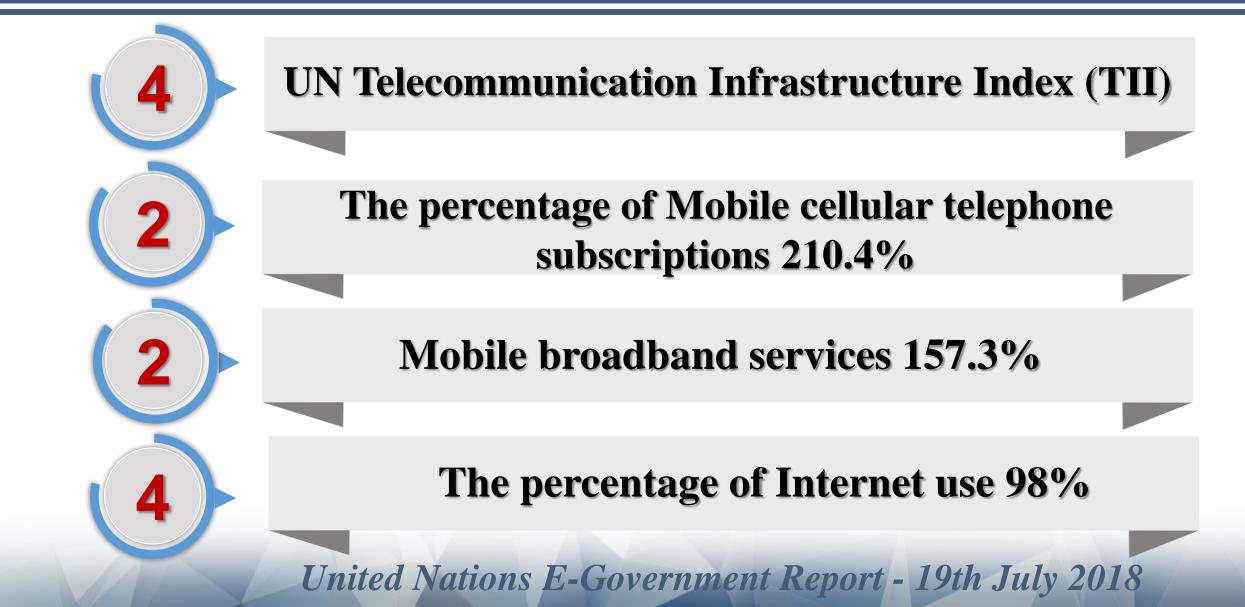




ICT in the Kingdom of Bahrain Experiences and Indicators



Ranking of the Kingdom of Bahrain in ICT international reports & indicators



Global Ranking of Bahrain in ICT international reports and indicators

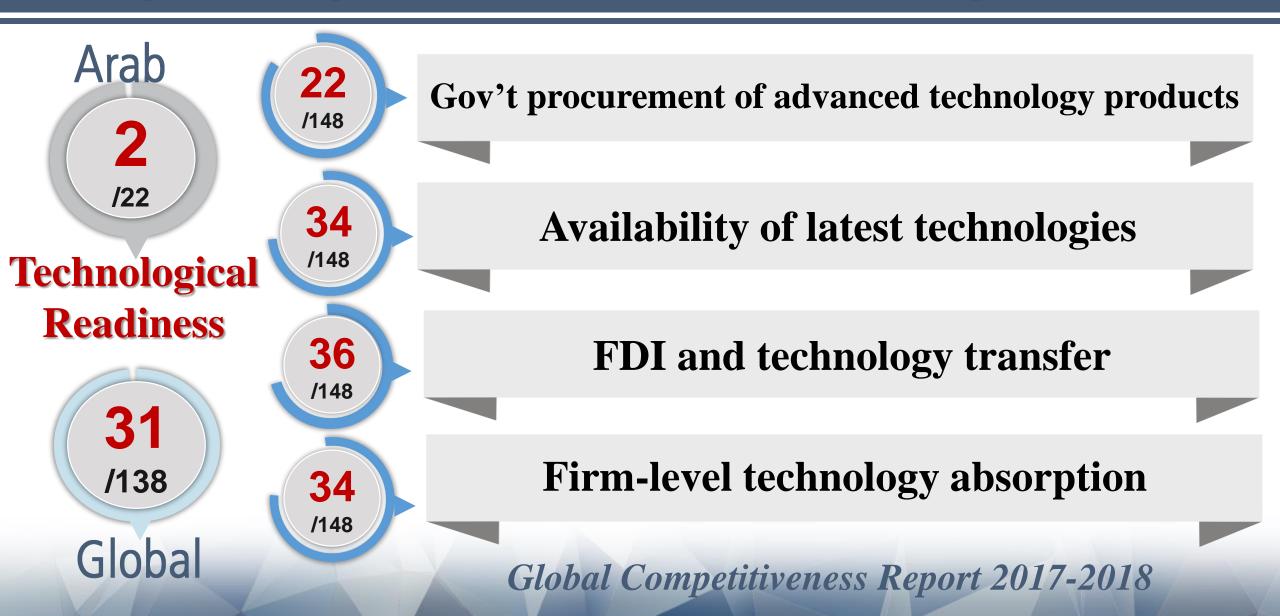
The World Telecommunication/ICT Indicators Symposium (WTIS) 2017





International Telecommunication Union's report-November 2017

Ranking of the Kingdom of Bahrain in ICT international reports & indicators



Ranking of the Kingdom of Bahrain in ICT international reports & indicators

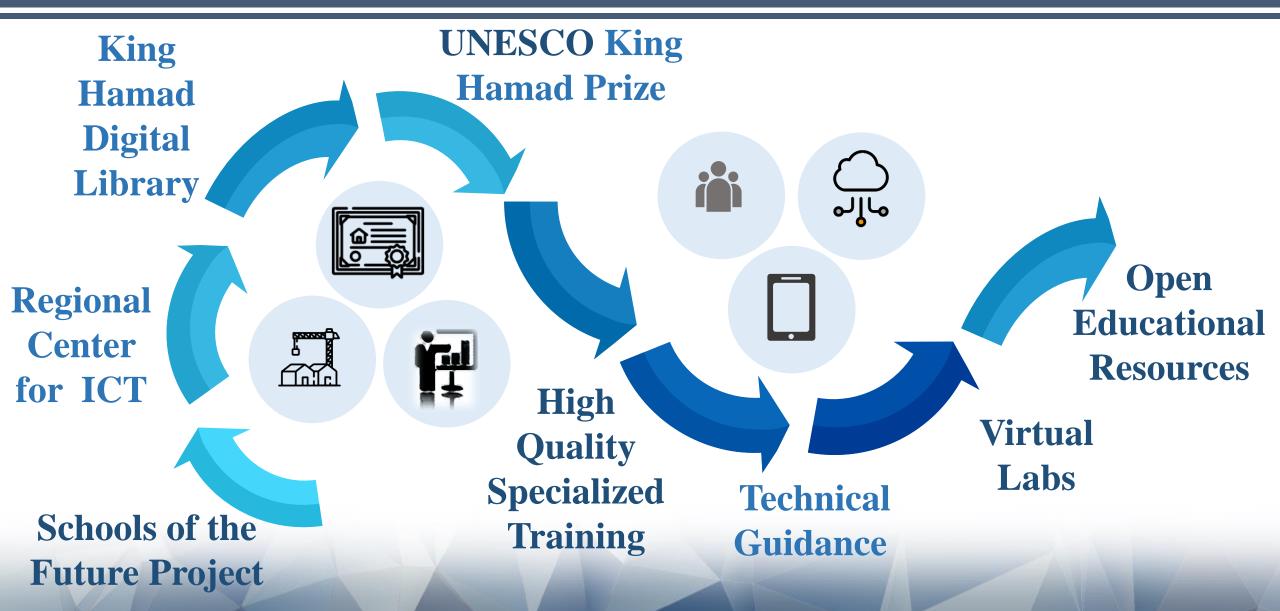
Internet Access in Schools

Percentage of Individuals using Internet



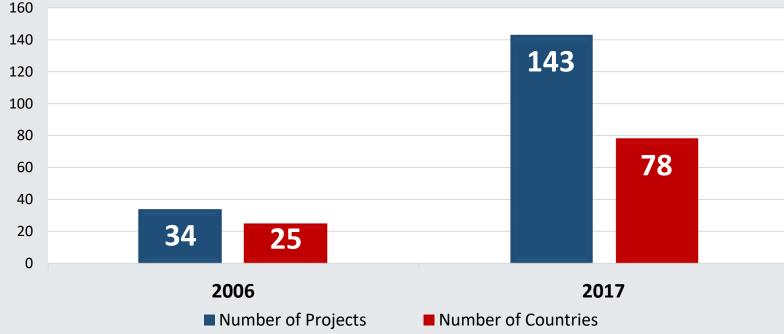
Global Competitiveness Report 2017-2018

Bahrain Experience in Digital transformation in Education



The UNESCO King Hamad Bin Isa Al-khalifa Prize for the Use of Information and Communication Technologies in Education

Increased international interest in the UNESCO King Hamad Bin Isa Al-Khalifa ICT in Education Prize





The number of projects submitted to compete for the prize has reached (700) projects in 2017, (143) of which reached the final stage.

Some Programs of the Digital Empowerment in Education

Virtual Laboratories

Conducting science experiments (chemistry, physics, biology) and mathematics through virtual laboratory software, which are digital tools that provide an interactive environment for experiments to simulate the real experiment. It has been activated for students and teachers in all primary, intermediate and secondary levels.



Technical Guidance

Developing the skills of teachers in integrating ICT in teaching and learning in the light of educational theories and international standards through building the capacities of educational supervision specialists and the senior teachers to provide guidance and support to teachers. ISTE standards and indicators were adopted for this program.



Inspirational Education Model

Designing Solutions Training

Intelligence Values Technology

Imagination

The role of the teachers in of ICT employment

"The good preparation of teachers has a significant impact on the learning experience of students, and can increase the return of a classroom for life to 250 thousand dollars".

Raj Chetty Professor of Economics at Harvard University



Important Questions



Important Questions

What are the characteristics of an education system that is capable of graduating qualified students for <u>future jobs</u>?

What will the curriculum, classroom, evaluation systems, teacher training programs ... be like?

How can we maintain the balance between knowledge and new skills needed in light of the tremendous technological acceleration?

How can ICT be invested in the <u>sustainability</u> of education services? What role can modern technology play in addressing <u>educational</u> <u>waste and</u> achieving education efficiency? "We need technology in every classroom and in every student and teacher's hand, because it is the pen and paper of our time, and it is the lens through which we experience much of our world." *The educator, author, and public speaker David Warlick*



