The informational workshop
“Digitally Competent Educational Organizations”

Ministry of Education, Culture and Sport of Spain
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ICT and Digital Competency in Education.
Main Challenges,
UNESCO Approach and
IITE Experience

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Main socio-economical factors related with ICT intrusion

INTERNET and CLOUDS

SOCIAL MEDIA

UNITED COMMUNICATIONS

INFORMATION

COOPERATION and NETWORKING

INCLUSIVITY

NEW OCCUPATIONS

QUALITY OF LIFE
ICT Impact to Education

- Orientation to Innovative Pedagogical Practices
- Improvement of Learning Efficiency
- Personalization
- Changes are Happened Now
- Labour Market Saturation and Economical Growth
- Impact of Technologies to Human Being Life
Challenge 1: Which should be educational organizations in the 2030?
Vision of our children ...

http://www.contentfiltering.ru/kidsfair/gallery/?cur_cc=271&curPos=140
Challenge 2: This is a book! Is this a book?
Challenge 3: Is learning a light?
Challenge 4: Innovations in pedagogy - from/to personalization
How to combine personalization with multi-massive education?

Socrates, 1:1 but just for a few

XVIII Century 1:M but for Elite

XX Century 1:MM and massive

XXI Century 1:MMM Multi-massive but not personalized yet

IXX Century 1:M and for many

PERSONALIZED LEARNING IS DIFFERENT
Challenge 5: The role of teacher – what’s a difference?

XIX Century Teacher

XXI Century Teacher


http://allwantsimg.com/wars-oboi
Solution: Changing the role of teacher

“Dictatorship”

“Democracy”

http://fs.nashaucheba.ru/docs/270/index-1762195.html
Solution: Collaborative Educational Environments and Flipped Classrooms
Solution: New generation of Textbooks

Good Textbooks

Placed in context videos of the best teachers

Highly interactive
New Generation
Multimedia
e-Textbooks
(The “Active” Text-Books)

Teaching concept from the “flipped” classroom
Challenge 6: Teacher ICT/Digital Competency
Why ICT/Digital Competency?
Key competencies of Inclusive Knowledge Society

ICT/Digital Competency (e-Skills)

Professional Competency (Hard Skills)

Social Competency (Soft Skills)
Solution: Teacher ICT Competency Standards based on UNESCO ICT-CFT

ICT-CFT v 1.0

ICT-CFT v 2.0

ICT-CFT v 3.0 – 2017!
General Challenge:

ICT in Education – Expired product in new package?

http://terraoko.com/?p=64934&lang=en
General Solution: To integrate ICT and Pedagogy

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all
INTERNATIONAL CONFERENCE ON ICT AND POST 2015 EDUCATION

A journey towards inclusive and equitable quality education and lifelong learning

Seize digital opportunities and educational transformation:
Access and Inclusion, OER and Open Solutions,
Quality Learning, Lifelong Learning Pathways, Online Learning Innovations,
Quality Assurance and Recognition of Online Leaning, Monitoring and Evaluation,
Accountability and Partnership, International Cooperation
UNESCO’s Main ICT in Education Activities and Priorities

- Policy
- Teacher training
- Mobile learning
- Open educational resources (OER)
- Monitoring and measuring

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### UNESCO’s ICT in Education Programme: Responding to the challenges

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<td>▪ National workshop on ICT in Education Policy</td>
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<td><strong>Teacher Training</strong></td>
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<td>▪ Assisting national teacher ICT standard setting</td>
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UNESCO’s Multi-Entry Approach to ICT in Education Policies

**Learning outcomes**
- Subject knowledge acquisition in fixed time & space
- ICT enhanced knowledge deepening
- Knowledge creation and life long learning

**Teaching & Learning**
- ICT enhanced classroom based lectures
- Extended lessons or online courses (e.g. OER MOOCs)
- Coached U-learning & project based learning

**Content**
- Govt. or institutional educational resources
- Teacher/student generated resources
- Public open educational resources

**ICTs**
- School devices & connection per students → 1:1
- Household or personal devices (BOT)
- Public internet connection → Universal broadband

**Outputs**
- Openness of curriculum & assessment

**Inputs**
- School
- Personal/Family
- Public

**Openness of schools or learning environments**
The joint UNESCO-Intel ICT in Education Platform and Policy Tool

https://ictedupolicy.org/

The joint UNESCO-Intel platform "ICT in Education Policy" supports countries to create and discuss forward-thinking plans and
UNESCO IITE. Focus Areas

POLICY, RESEARCH and TECHNICAL ASSISTANCE

TEACHER PROFESSIONAL DEVELOPMENT and NETWORKING

DIGITAL PEDAGOGY, OER and LEARNING
Teachers Competency and UNESCO ICT-CFT
Curriculum Development and Training

International Master Programme “ICT in Teacher Professional Development”
Joint training courses for teachers with ITE partners – leading ICT vendors
ITE on-line training courses for teachers
TE project “OER in non-English-speaking countries” covered 19 countries
Learning Materials and MOOCs
New IITE Flagship Project: Foresight in ICT in Higher Education
UNESCO IITE invites you for cooperation in the field of ICT-integrated pedagogy to reach the targets of Education-2030!

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