United Nations Educational, Scientific and Cultural Organization

UNESCO Institute for Information Technologies in Education

POLICY ADVOCACY AND RESEARCH

TECHNICAL ASSISTANCE

TEACHER PROFESSIONAL DEVELOPMENT

DIGITAL PEDAGOGY

OPEN EDUCATIONAL RESOURCES AND LEARNING MATERIALS

NETWORKING AND PARTNERSHIP

UNESCO and ICT in Education: supporting digital transformation to ReachingTargets of "Education-2030"

Professor Alexander Khoroshilov, PhD

UNESCO IITE
Consultant, advisor to director

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newakhor@gmail.com

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UNESCO IITE welcomes QED - 2017!!!!!

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SDG 4 on Education

Education is at the heart of the 2030 Agenda for Sustainable Development and essential for the success of all SDGs

- **Sustainable Development starts with Education as an integral part** of the 2030 Agenda for Sustainable Development where All SDGs are **interdependent**

SDG4 and Incheon Declaration: World Education Forum, 19 – 22 May 2015, Incheon, Republic of Korea

UNESCO together with UNICEF, the World Bank, UNFPA, UNDP, UN Women and UNHCR organized the World Education Forum 2015. Over 1,600 participants from 160 countries, including over 120 Ministers, adopted the **Incheon Declaration** for Education 2030, which sets out a new vision for education for the next fifteen years.

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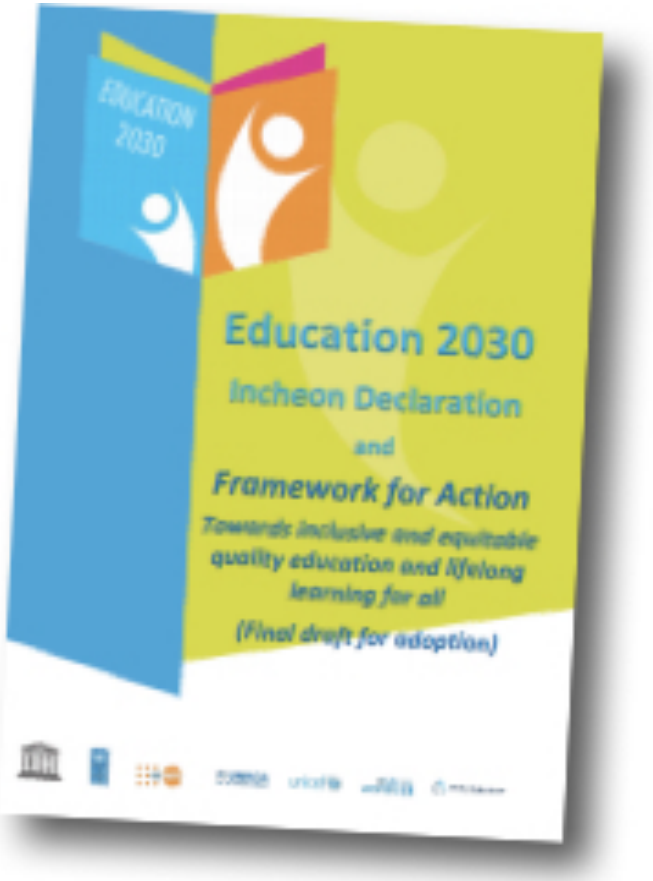
SDG 4 on Education : Incheon Declaration and Framework for Action "Education 2030"



Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

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September 2015. 70th Session of the UN General Assembly

Agenda 2030 for Sustainable Development (including SDG4) was adopted

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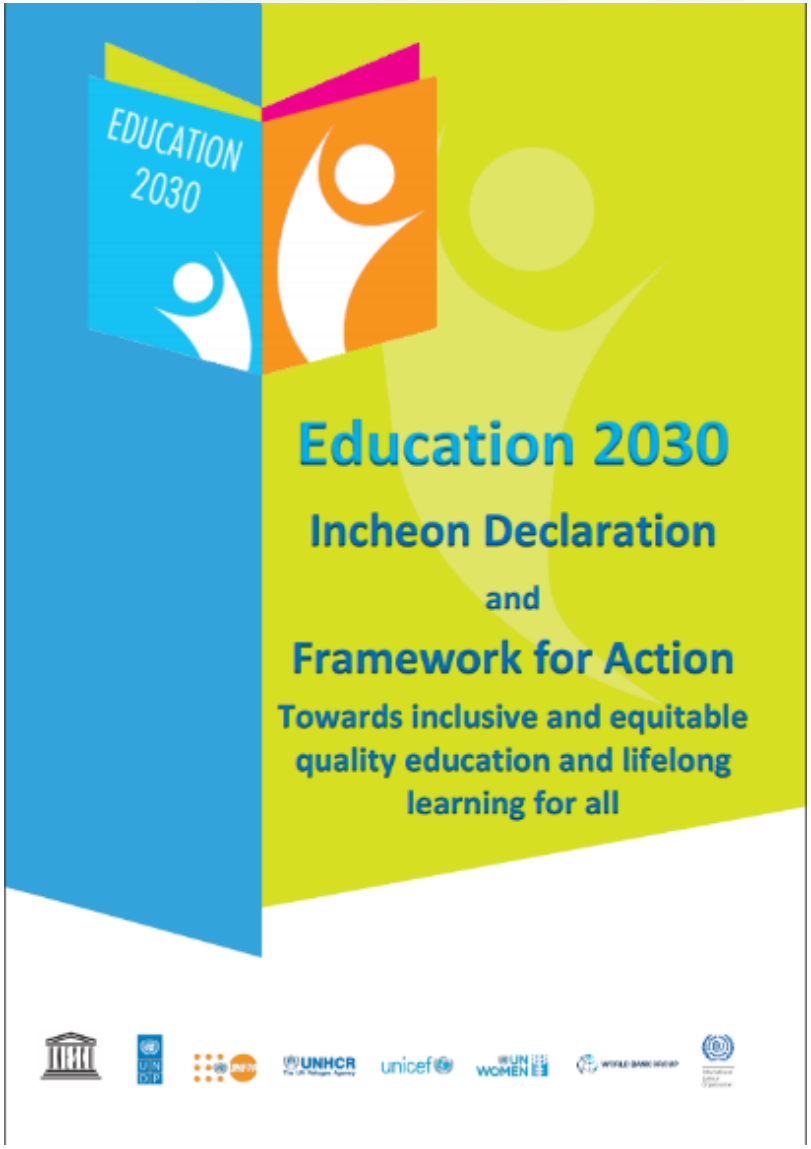
38th Session of UNESCO General Conference

SDG-4 "Education 2030" Framework for Action

was adopted by high level representatives of world education community

SDG4- Education 2030 Framework for Action (FFA)



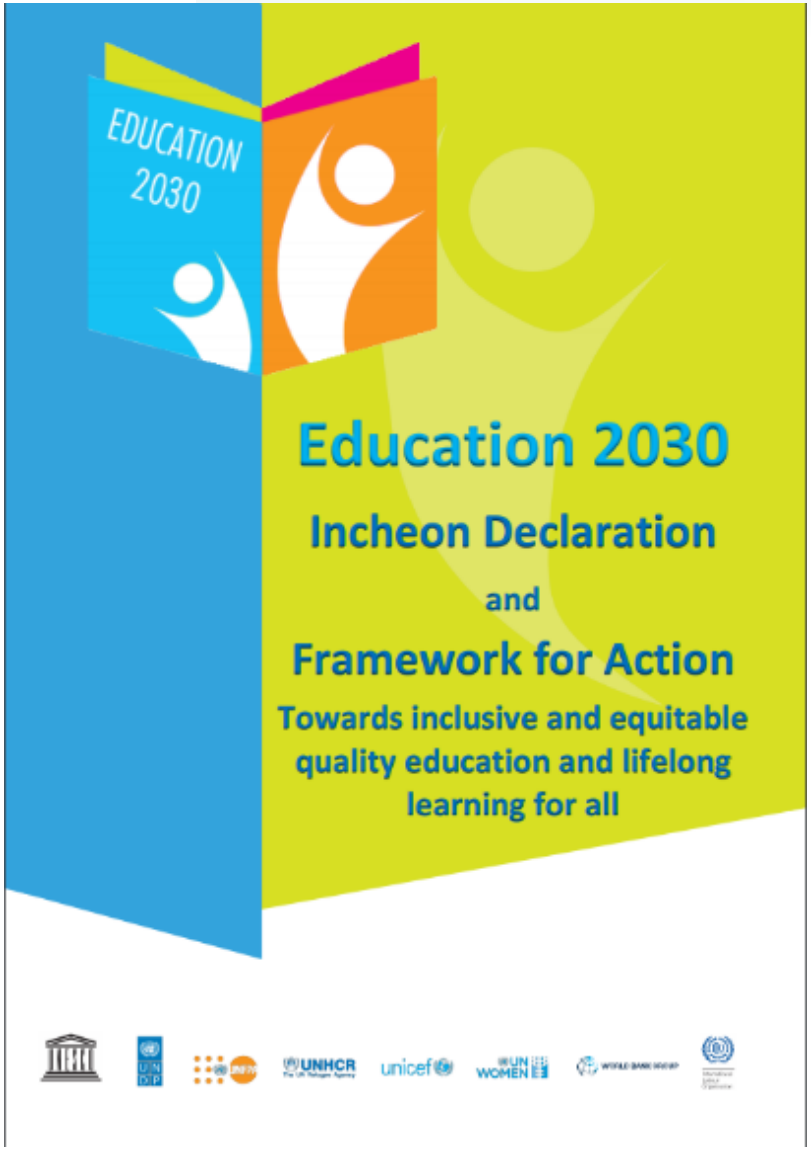
Purpose

- Provides guidance on implementation
- Outlines modalities to support country-led action

A New Vision

- Rights-based and a public good
- Expanded access to all levels of education
- Focus on inclusion, equity and gender equality
- Focus on quality and relevant learning outcomes
- Focus on skills for life and work
- Holistic and lifelong learning approach
- Universally-relevant

SDG4 on Education and Education2030 framework for action



7 SDG4 Targets:

- Primary and secondary education
- Early childhood and pre-primary education
- Technical/vocational and tertiary education
- Relevant skills for employment
- Gender and equal access
- Literacy and numeracy
- Sustainable development and global citizenship

3 Means of Implementation:

- Education facilities and learning environments
- Scholarships
- Teachers

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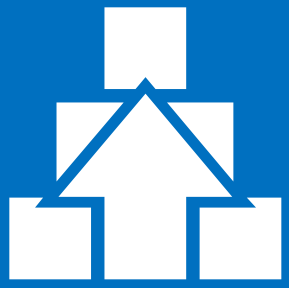
Digital Impact to Education and Life

ORIENTATION TO INNOVATIVE PEDAGOGICAL PRACTICES

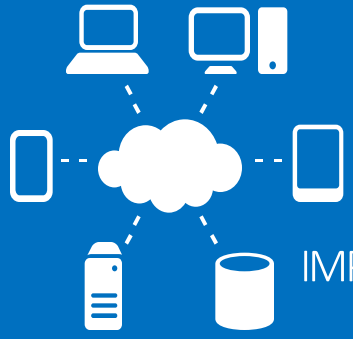
IMPROMEVENT OF LEARNING EFFICIENCY

PERSONALIZATION



CHANGES ARE HAPPENED NOW

LABOUR MARKET SATURATION AND ECONOMICAL GROWTH

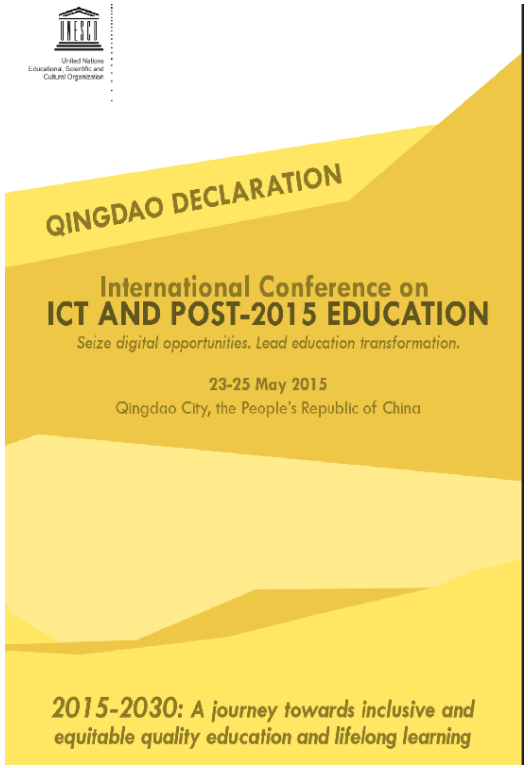


IMPACT OF TECHNOLOGIES TO HUMAN BEING LIFE

INTERNATIONAL CONFERENCE ON ICT AND POST 2015 EDUCATION

A journey towards inclusive and equitable quality education and lifelong learning

to provide Member States with policy recommendations about how to harness the power of ICT to address current educational challenges and to ensure equitable quality education and lifelong opportunities for all.



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 International Forum on ICT and Education 2030,10 -11 July 2017, Qingdao, China

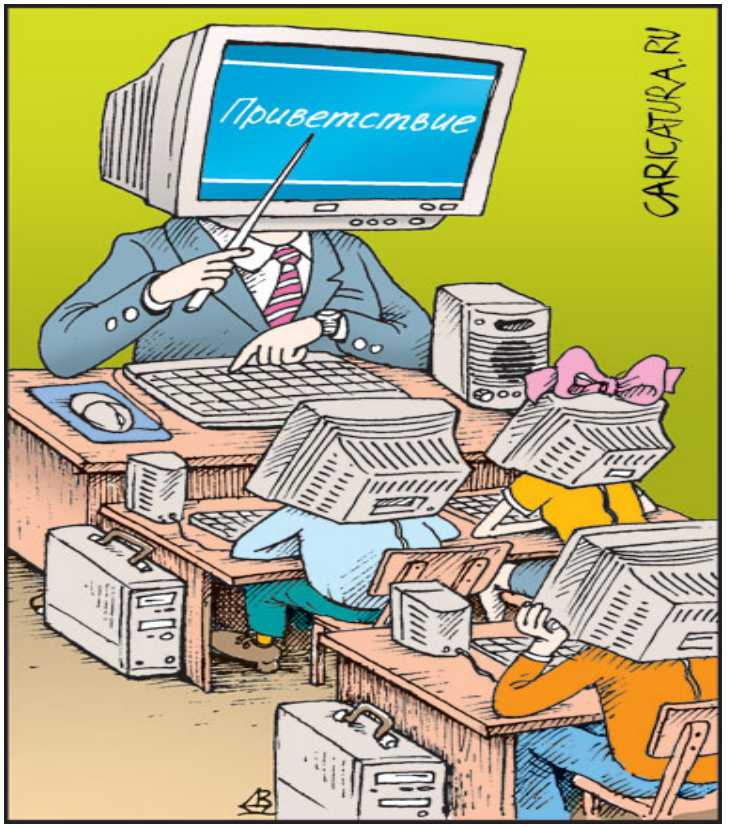
2017 Qingdao Statement: *Strategies for leveraging ICT to achieve Education 2030*. The Forum focuses on harnessing ICT to achieve Sustainable Development Goal 4 and targets of Education 2030 FA

School Училище Школа
学校 xuéxiào
Դպրոց Skola
L'école Scoala
Kool Мактаб
Мектеп Mokykla
Escuela Maktab
Məktəb Okul
Σχολείο Мактап
مدرسة სკოლა
…… ……

Challenge : Which should be a school in the digital age (in 2030)?

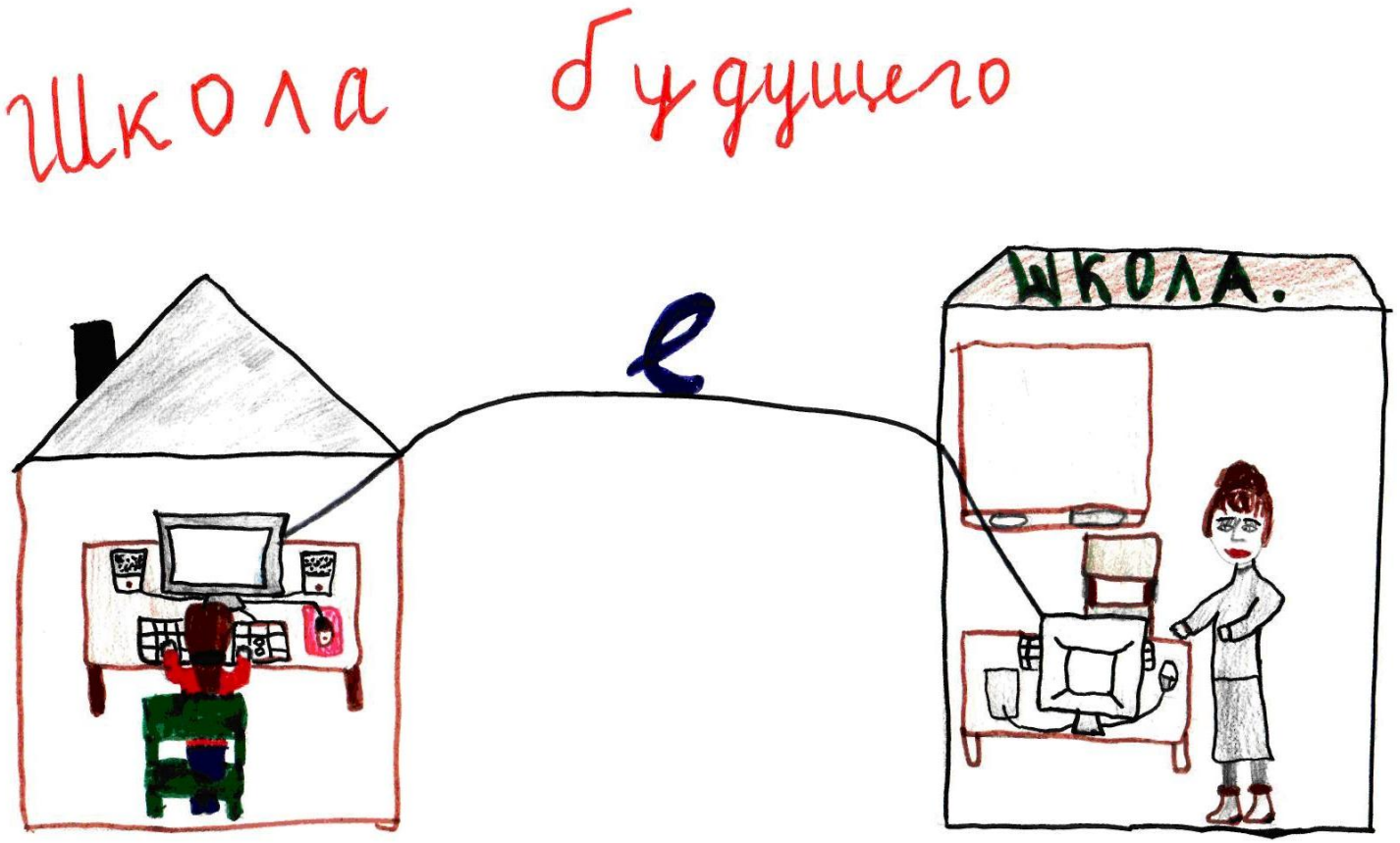
Social or Technological ?

[http://radodar.ru/?p=1025].



[http://caricatura.ru/art/dubinin/url/parad/dubinin/5023/]

School of the future.
Vision of our children (generation Z)…



http://www.contentfiltering.ru/kidsfair/gallery/?cur_cc=271&curPos=140

Vision of our children + TWG8 (upbringing)… educational eco system

Family

http://www.contentfiltering.ru/kidsfair/gallery/?cur_cc=271&curPos=140

Digital generation (generation Z)

Theory of generations (*William Strauss*, *Neil Howe*)

- Dare of birth>> 2000 г.
- «indigenous people of Network» – digital Natives
- Interests: Science, Technology,, Art, Social Communications , Healthy Style of life
- Skills: Internet, Social Communicatios,mobile devices, , iPads, VR- and 3D-reality
- From the birth – inside Network
- Not afraid communicate with unknown people
- Read less
- Watch more

Issue:Are we ready to work with GenZ?

- Digital generation (GEN Z): challenges , defined by the new environment and new social situation of sustainable development–

- Changes of top mental (psychic) functions (memory, attention, thinking, perception, speech etc);
- Changes of usual qand traditional cultural and social practices (modes of activity) – Internet as a cultural tool for solving different tasks by new but not traditional ways;
- Changes of mechanisms for the development of child personality (identity, Status, Reputation, Accumulation of
- Social capital, personal and individual features);
- Appearnce of new Psychological contexts (Social media and networks, blogosphere, virtual worlds, etc) as well as Phenomena (Internet – dependence, multitasking, Facebook depression, Google-effect, etc);
- Appearance of new forms of interrelation development including The negative aggressive ones (flaming, Flooding, Spaming, trolling, hackering, haytering, cyberbooling, suicidegrouping, etc);

based on presentation of Mr. Alexander Kondakov on ITE-2017 Conference (Troitzk, Russian Federation)

Issues to be considered (Challenges to be resolved)

Issue : What college or university will meet generation Z?

Issue : This is a book! Is this a book?

http://caricatura.ru/parad/timofeev/pic/9747.jpg

Solution. New generation text books

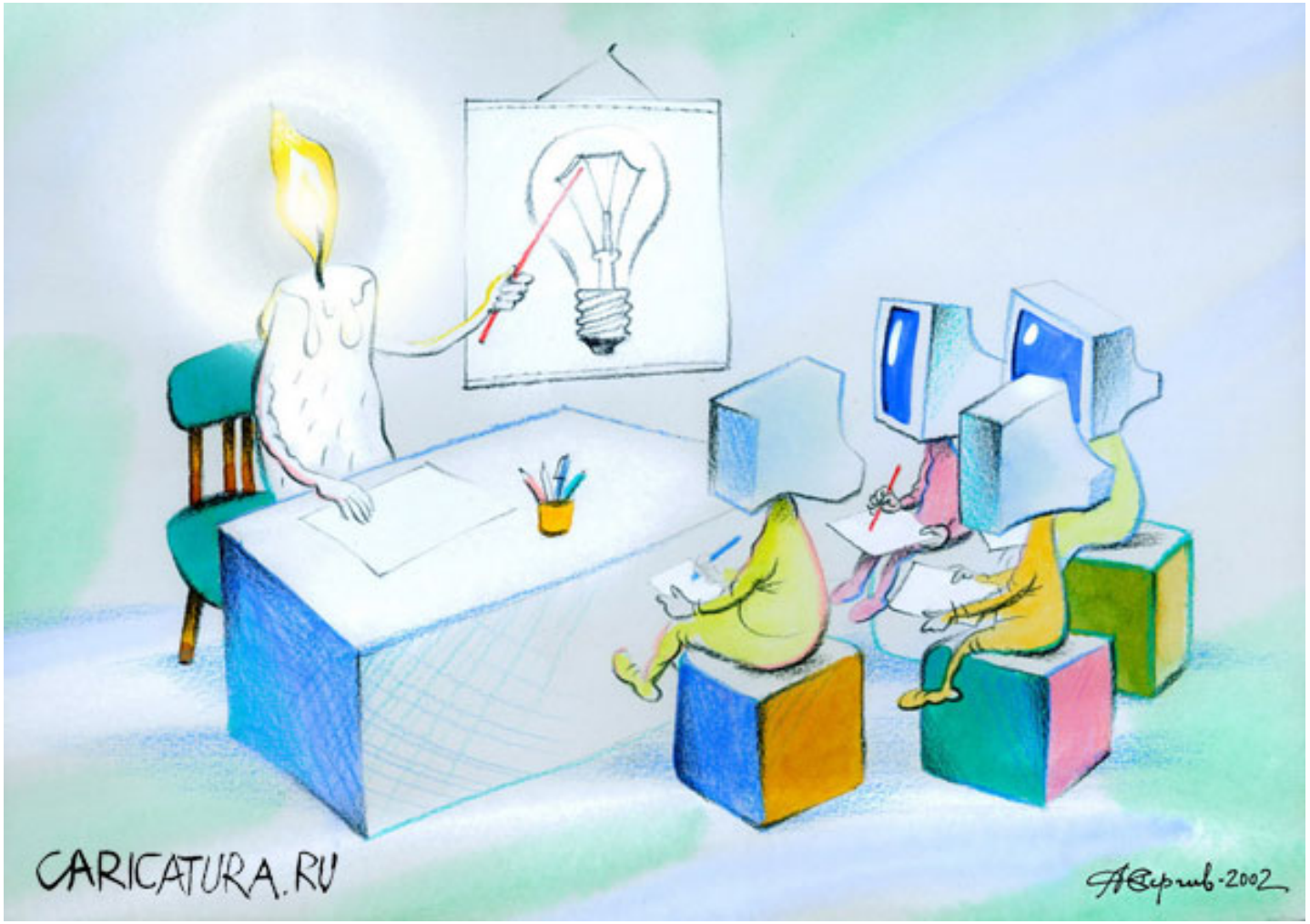
Good Classical Textbooks

Flipped classroom concept

Digitalized pedagogical practice of best teachers

A new generation of highly interective multimedia e-textbooks (Active live text books)

Issue: Is learning a light?



http://caricatura.ru/parad/sergeev/pic/6221.jpg

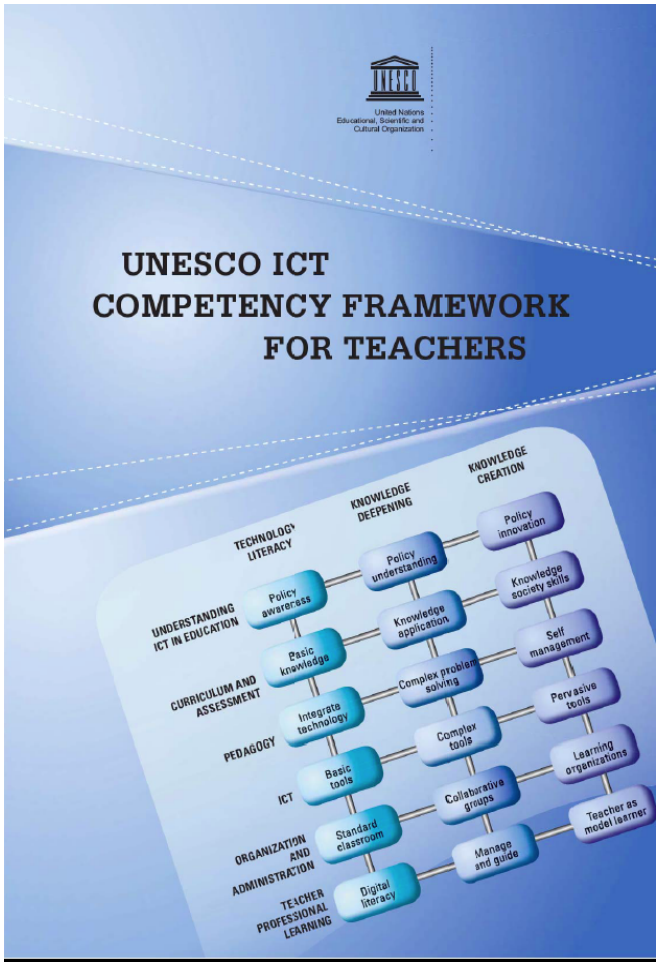
Issue: Teacher ICT/Digital Competency +OER

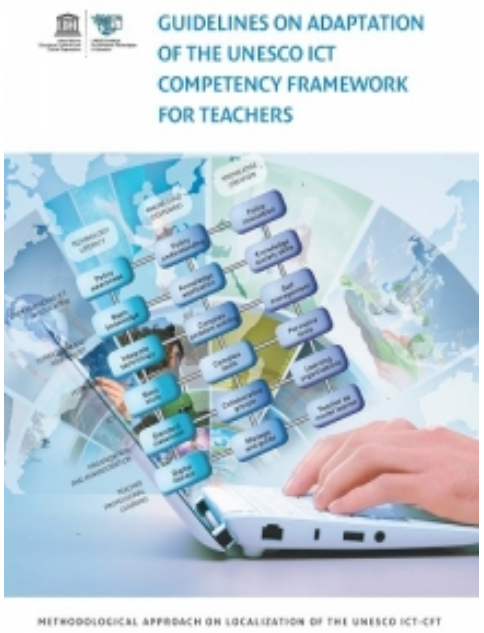
http://www.demotivationalposters.org/index.php?start=63891

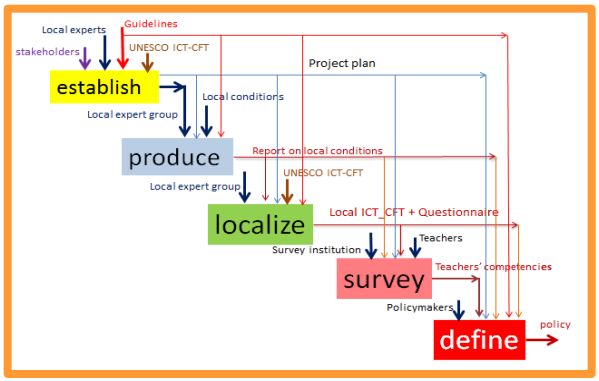
Solutions : Teacher ICT Competency Standards based on UNESCO ICT-CFT, SELFie EU Project

ICT-CFT v 1.0

ICT-CFT v 2.0







Issue : The role of teacher – what's a difference?

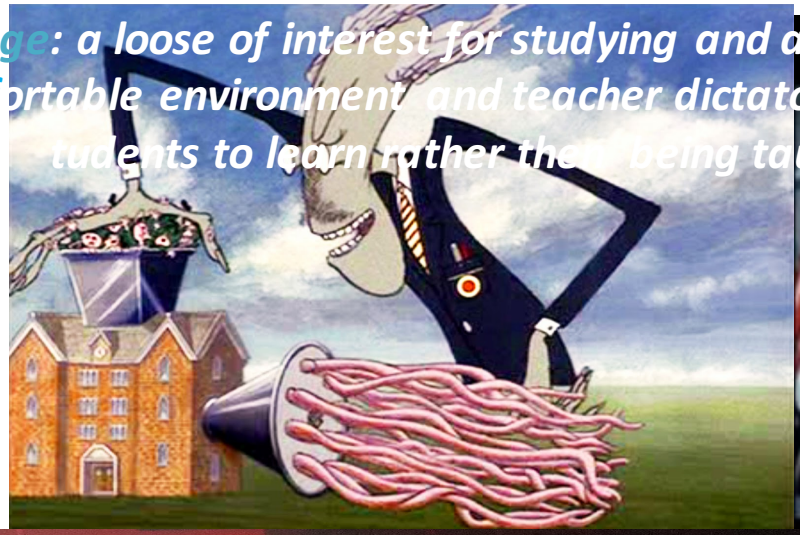
XIX-XX Century Teacher

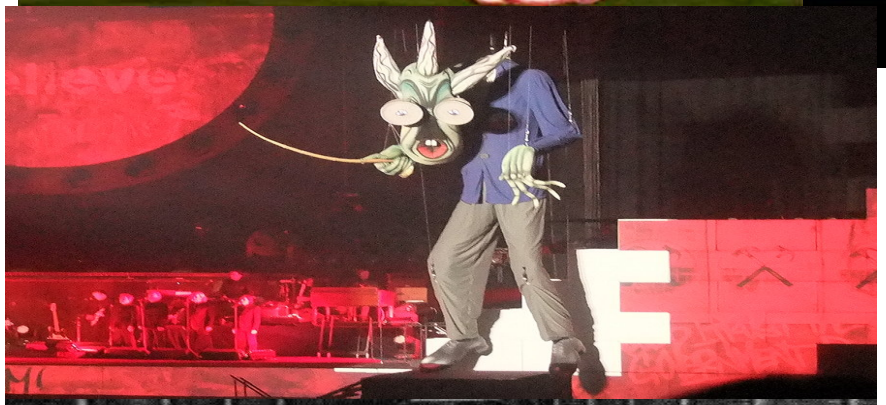
http://andreytv.blogspot.ru/201

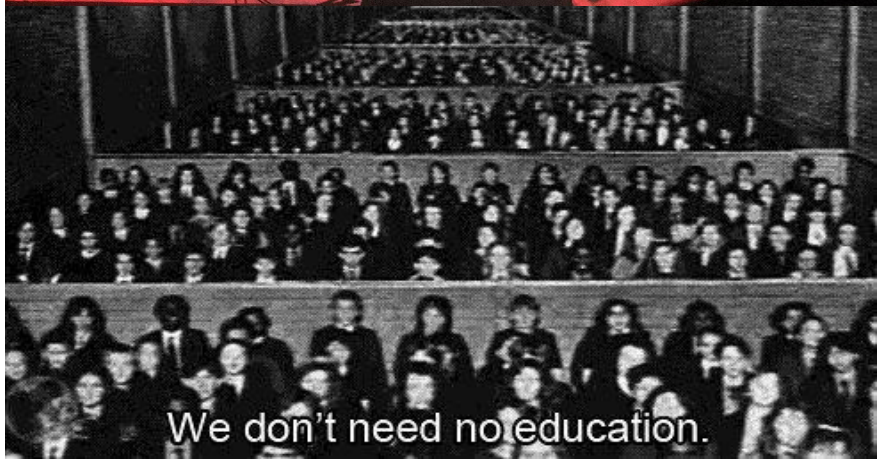
XXI Century Teacher

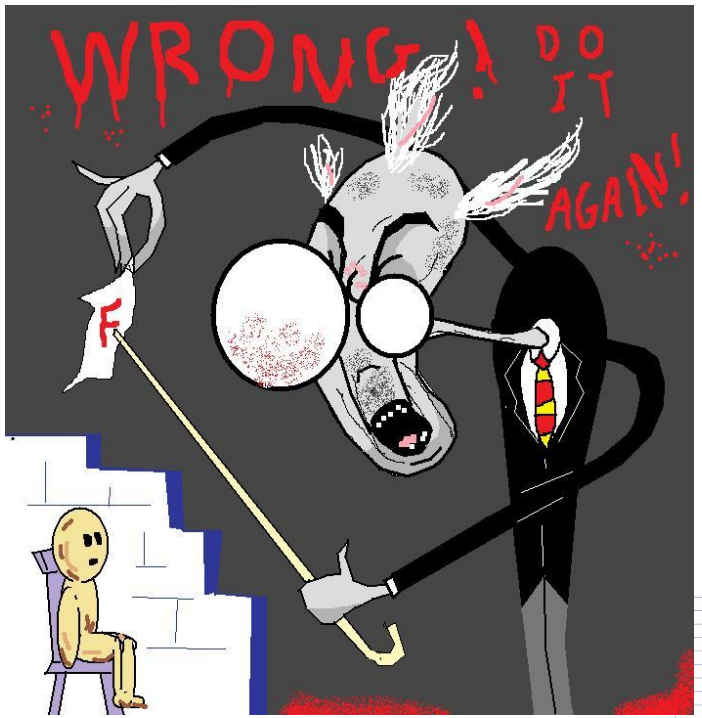
http://allwantsimg.com/wars-oboi

Challenge: a loose of interest for studying and as a result early school leaving due to **uncomf**ortable environment and teacher dictatorship and no respect to the natural wish of the students to learn rather than being taught



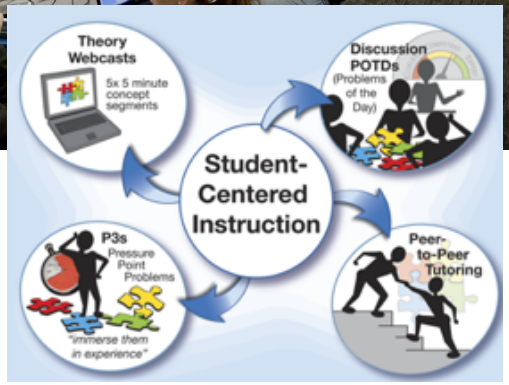


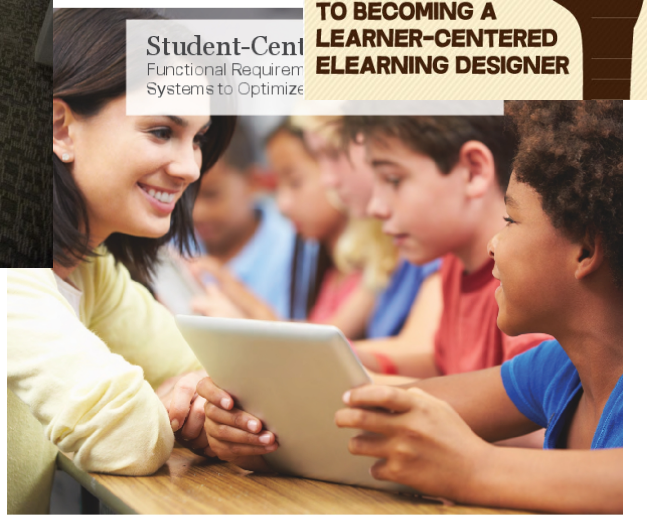




Solution : TRANSITION from Teacher-focused models to Student-centered models

iNACOL





Solution: Changing the role of teacher, parents and students in the framework of a new pedagogical model ……. From…….

"Pedagogcal Dictatorship" ***"Pedagogical Democracy"***

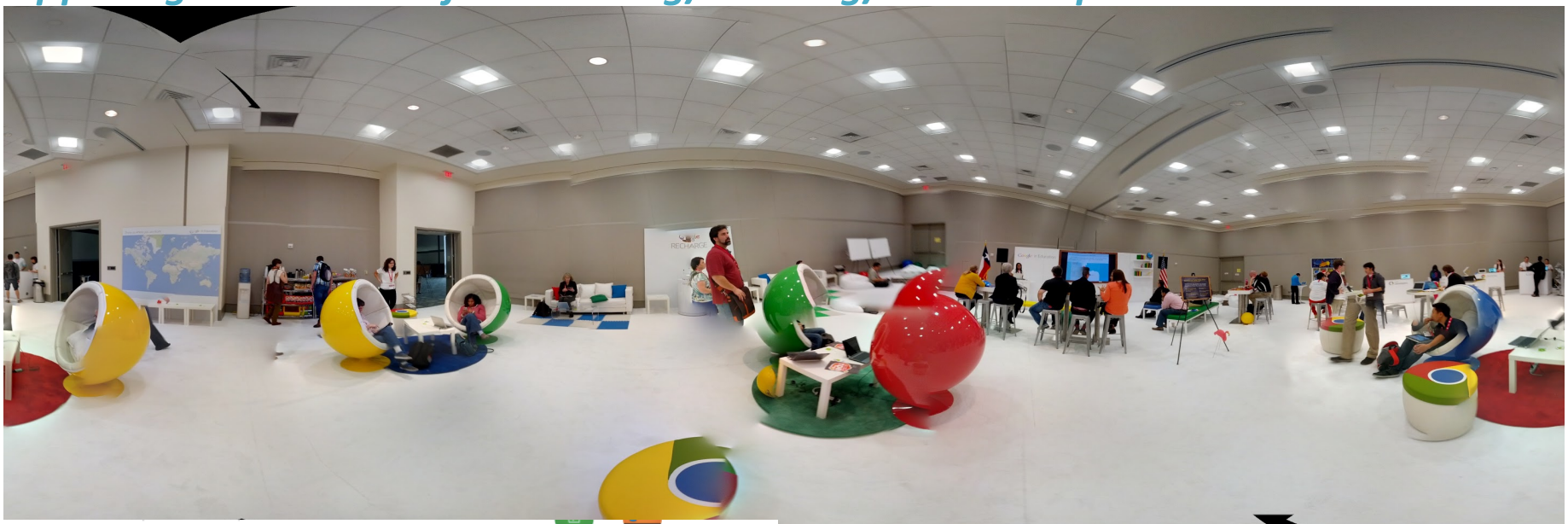
"Authoritarian pedagogy ***to*** ***"Humanic "Cooperative pedagogy"***

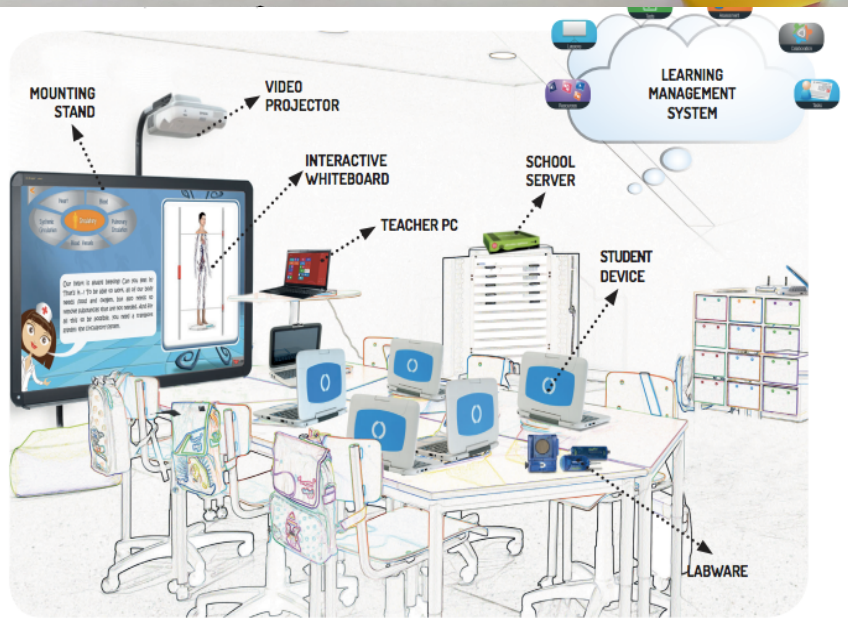
http://fs.nashaucheba.ru/docs/270/index-1762195.html

Classic Pedagogy VS the Innovative One (Classic Ski technique VS the new one)

What's a difference?

Solution: Collaborative Environments, Flipped Classrooms, Networked Virtual Labs suppoting a new model for teaching/learning/education processes.





ICT in EDUCATION without INNOVATIVE PEDAGOGY: DEAD WINE IN NEW BOTTLES!

at the all levels of education and to implement real new digital pedagogy based on a new model of teaching/learning/education processes

http://lyc1560.mskobr.ru/ads_edu/vebinar_muzejnaya_pedagogika_kak_innovacionnaya_pedagogicheskaya_tehnologiya_30_06_2016/

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UNESCO IITE. Focus Areas

POLICY, RESEARCH and TECHNICAL ASSISTANCE

TEACHER PROFESSIONAL DEVELOPMENT and NETWORKING

DIGITAL PEDAGOGY, OER and LEARNIG MATERIALS

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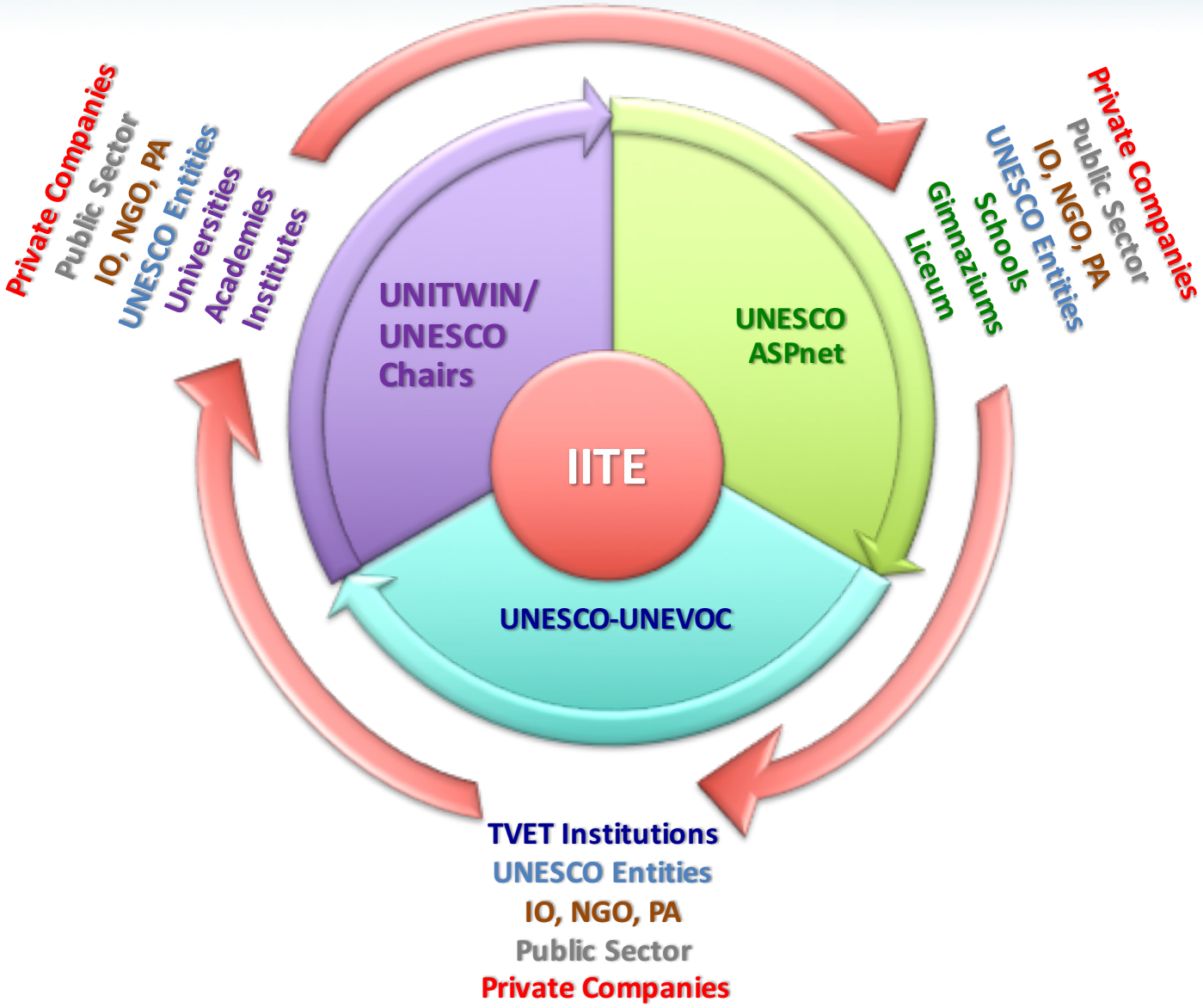
IITE Networking Model



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IITE Priority: Cooperation With Global UNESCO Networks, National Commissions, Field Offices, Institutes and Centers

UNESCO Associated Schools

LFF

uniTwin

Network of Chairs on ICT in Education and Innovative Pedagogy

UNEVOC INTERNATIONAL CENTRE for Technical and Vocational Education and Training

ICT IN TVET

United Nations Educational, Scientific and Cultural Organization

International Bureau of Education

United Nations Educational, Scientific and Cultural Organization

UNESCO INSTITUTE for STATISTICS

United Nations Educational, Scientific and Cultural Organization

UNESCO Institute for Lifelong Learning

United Nations Educational, Scientific and Cultural Organization

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UNESCO IITE initiative: International Digital Pedagogical Clinic as a part of Multilevel National System of Digital Awareness and learning

- Digital Pedagogical Clinics (For Teachers and School Principals)
- Digital Wellness Centers – for parents, adults and local communities
- Digital Fitness Centers – For advanced users, students and digital professionals
- International Institute for Digial Economics and Data Sciences – scientific methodologic and coordinating unit of the System

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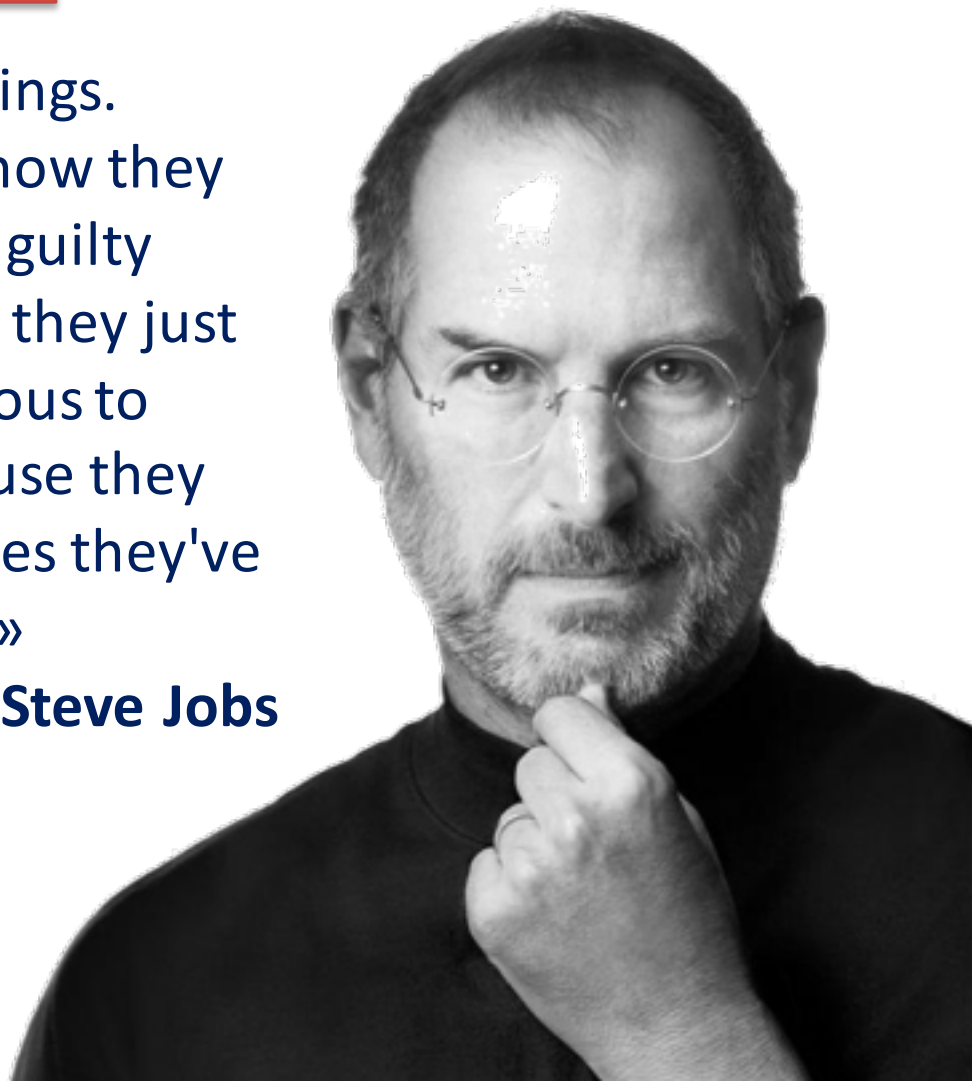
And … final words regarding ICT integrated pedagogy and innovations ….

How can we invent new things? What is creativity?

«Creativity is just connecting things. When you ask creative people how they did something, they feel a little guilty because they didn't really do it, they just saw something. It seemed obvious to them after a while. That's because they were able to connect experiences they've had and synthesize new things.»

Steve Jobs



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in Education

UNESCO IITE
invites you for cooperation in the field of ICT-integrated pedagogy to reach the targets of Education-2030

Welcome to 2017 Moscow International Education Fair and IITE International Conference on ICT in ED & DP
Moscow, Russian Federation,
April 18-21

Professor Alexander Khoroshilov, PhD

UNESCO IITE

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Благодарю!