Interactive Learning Environment. Teacher's New Competencies

Technologies and Innovations for Modern Education (TIME)
St Petersburg, Russia

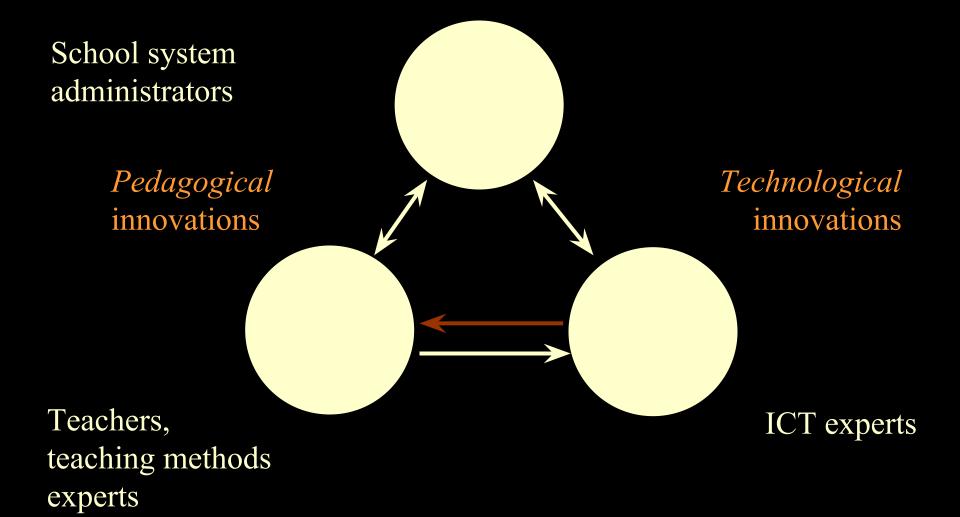
ICTs modify educational system according to demands of informational society

ICT s in education. Current situation

- Existing resources
 - computer equipment
 - ICT facilities
 - administrative infrastructure
 - development programs
 - regular budget
 - attention of society

- Demanded resources
 - pedagogical basis of computer assisted teaching and learning
 - relevant media objects,
 courseware and teaching methods
 - teachers' training and retraining system

Innovative development



Traditions and innovations

Educators who consider ICT facilities only in a context of their current practice make a typical fundamental mistake

UNESCO ICTs in education. Theory and Practice

Traditions and innovations

They put a question:
How can I use those technologies
to improve my every day practice?

Traditions and innovations

They put a question:
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instead of asking:
How can I use those technologies
to implement things I have never done yet?

Key factors

The concept is based on a triangle of mutually related models

- Pedagogical model
- Instrumental model
- Informational model

Pedagogical approach

Student's activity

 One gets opportunities for individual and/or group activities in a framework of school studies

Co-operation

 Learning activities should be implemented in co-operation between a teacher and students' team

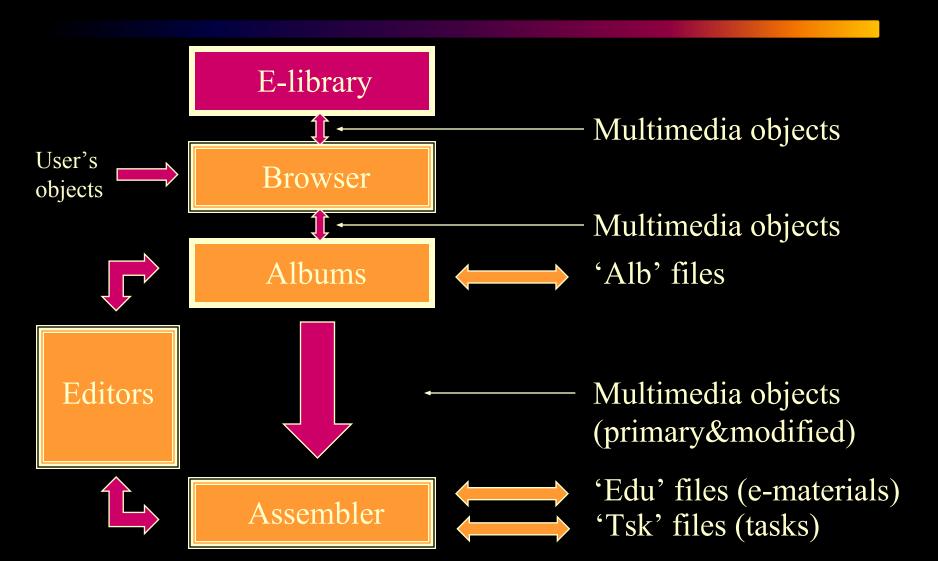
• Teacher's mission

 A teacher has a leading role similar to orchestra conductor's one. Every student plays own role as a part of a common pedagogical symphony

Authoring toolkit

- Common *modus operandi*
 - A teacher and students use the same methods and common toolkit for producing e-materials Common *modus operandi* guarantees that authoring activity started by one of educational process participants might be continued or edited by another student or other member of a school community

Authoring toolkit



Access to information resources

- Open informational environment
 - Learning media objects (e-library) are equally accessible for every participant of educational process.
 - Originally e-library should be collected by experts but it can be appended afterwards.
 - Expert community monitors and moderates the process of e-library development.

Training and retraining

Subject competencies

Subject competencies

+

ICT competencies

Subject competencies

Special ICT training programs

Training and retraining

Subject competencies	+	ICT competencies
Subject competencies	+	ICT competencies
Subject competencies	+	ICT competencies

ICT training modules in a framework of subject retraining

Training and retraining

Subject competencies + ICT in subject teaching

Interactive learning environment

+

Subject competencies + ICT in subject teaching

Subject competencies + ICT in subject teaching

Possible strategy

Goals

- Interactive learning environment concept
- An innovative model of teacher's competencies
- New approach to retraining process
- Standard of teachers' retraining
- Pedagogical computer tools and technologies for subject teaching