



United Nations
Educational, Scientific and
Cultural Organization



LEARNING in the Knowledge Societies

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Communication and Information Sector
UNESCO

The World Conference
on Intellectual Capital
for Communities

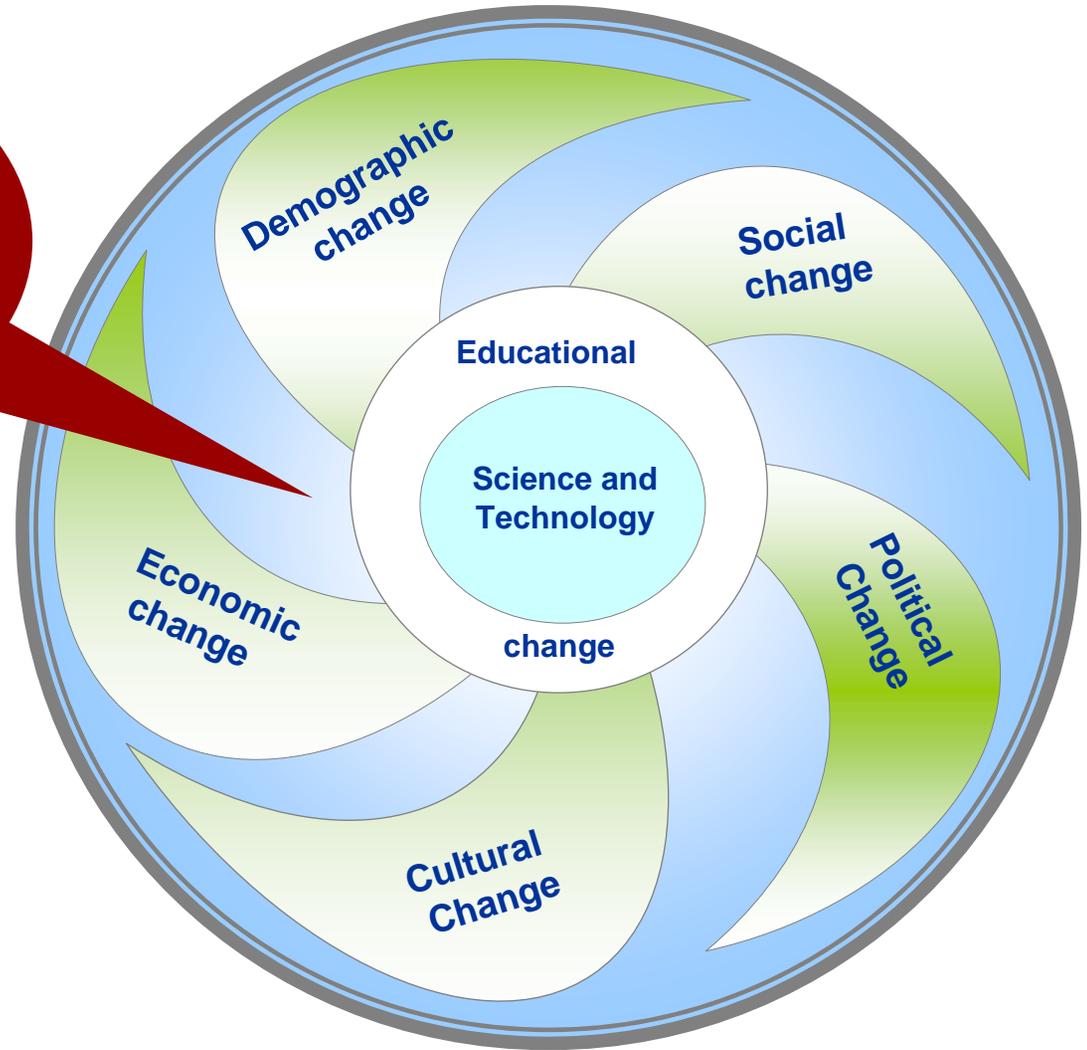
World Bank, Paris
June 29, 2006



Global trends

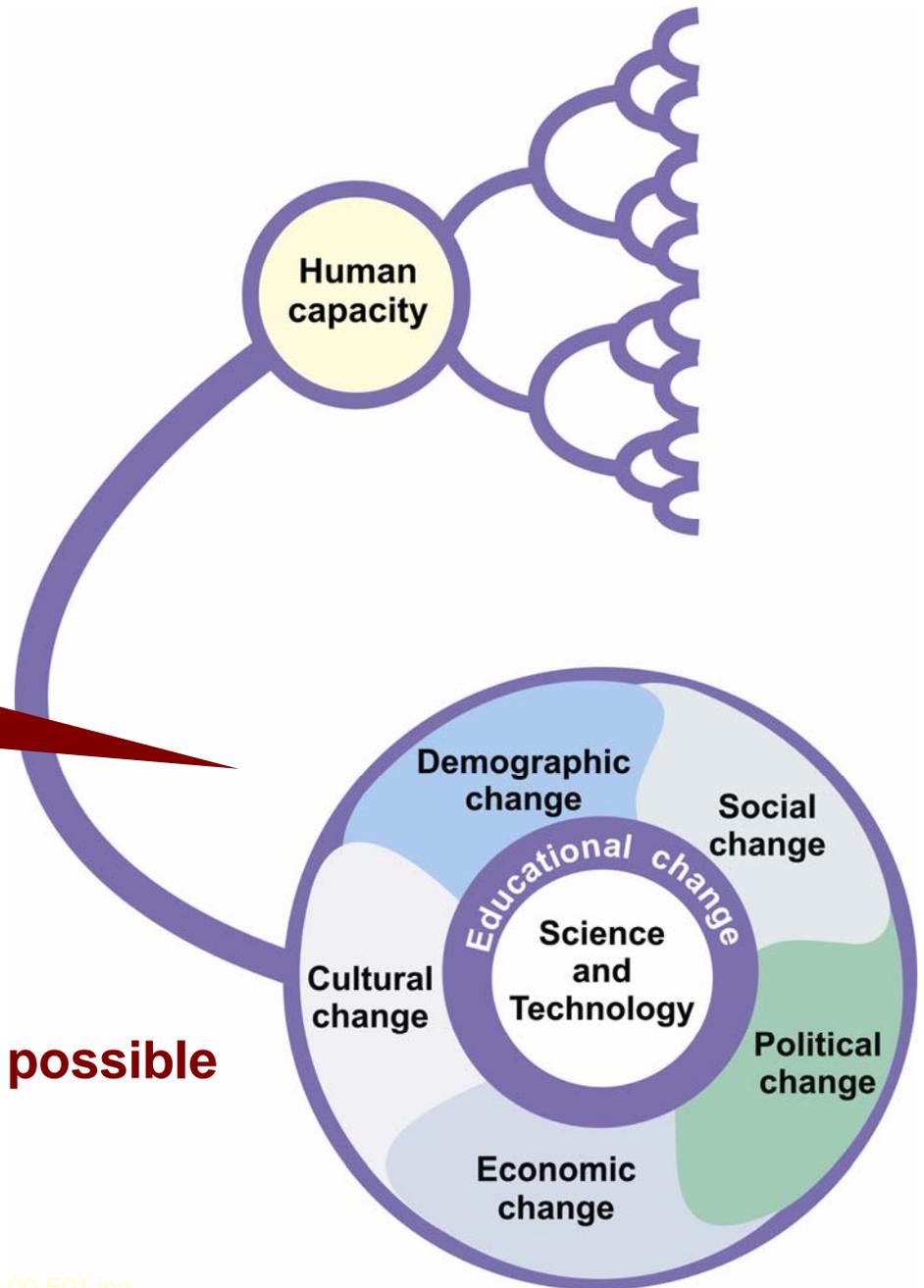
- **Demographic:**
145 people every minute is now being added to our global population
The world's population is likely to reach 9.1. billion by 2050
- **Science:**
Bioethics, science education, water, energy
- **Technology:**
Computation, biotechnology, nanotechnology...
- **Information revolution:**
Death of distance, new ICTs, new forms of learning
- **Globalisation:**
Integration, inequality, restructuring, emerging markets, networks
- **Conflict:**
24 countries in conflict situation in 2006

**How to handle
global
complexity?**



Continuous learning ...

- To think,
- To doubt,
- To adapt and as quickly as possible



“There is no royal road to learning”

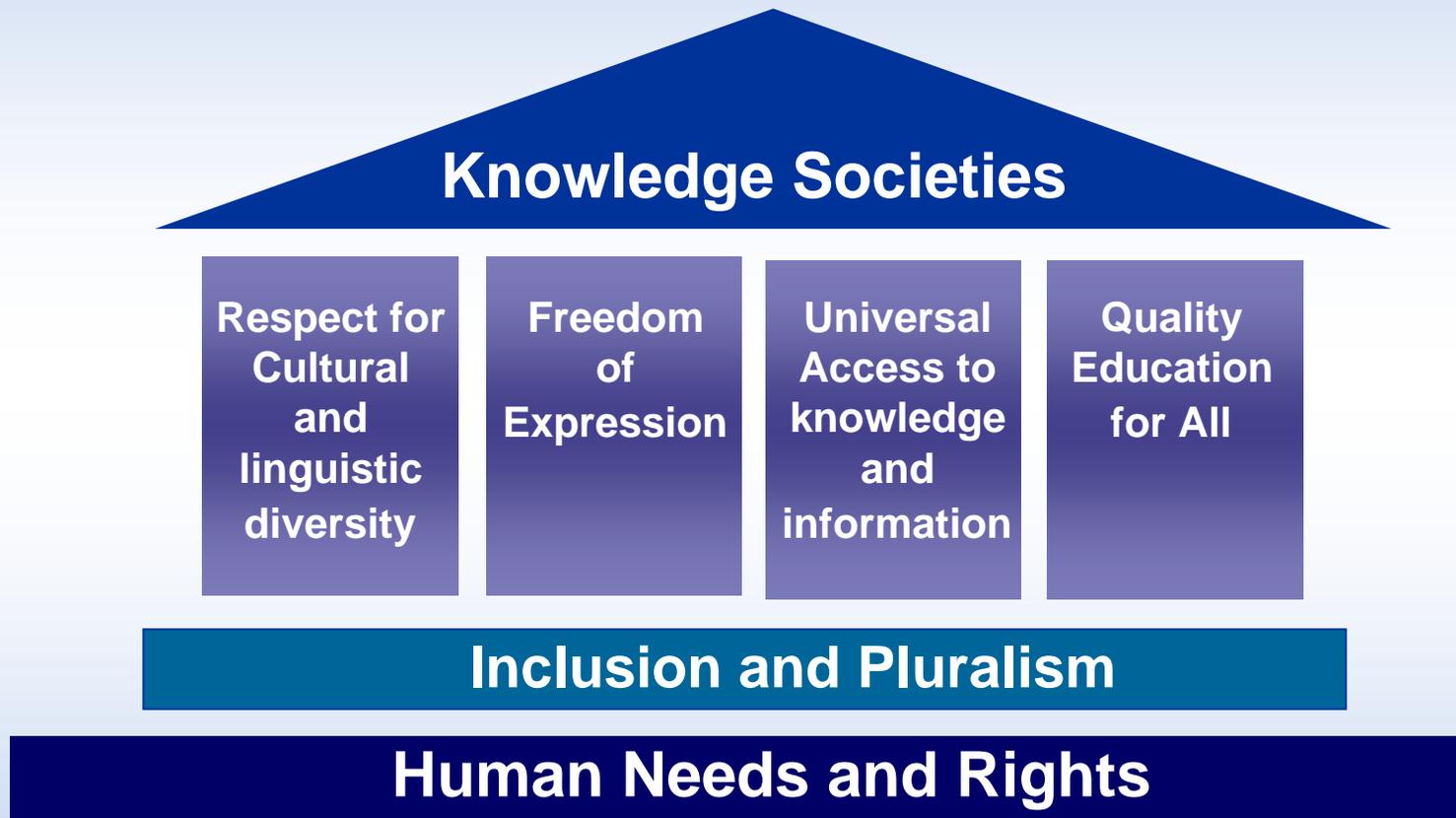
Euclid



Why learning is different today?

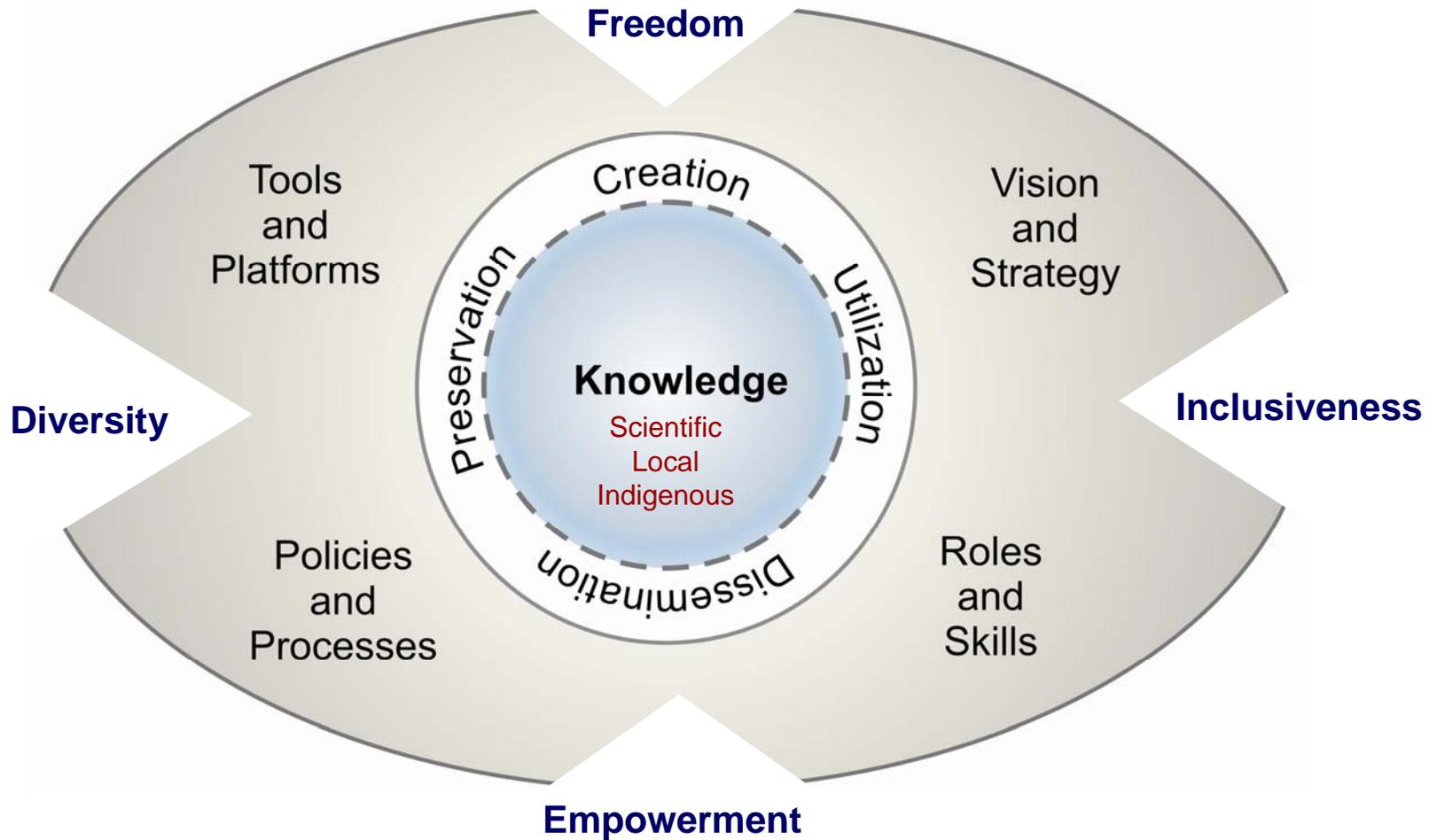
- **Culture of innovation, creativity and renewal**
- **Attachment of value to knowledge generated**
- **Fast production, exchange and transformation of information to knowledge**
- **Education and learning can no longer be confined to a set and settled space-time, but may develop a lifetime**
- **Human dimension: a new type of learning based on learner stimulation**
- **Multi-dimensional collaboration**
- **Systematic public-private partnerships**

UNESCO's approach





Knowledge processes and principles





Old Media

New Media

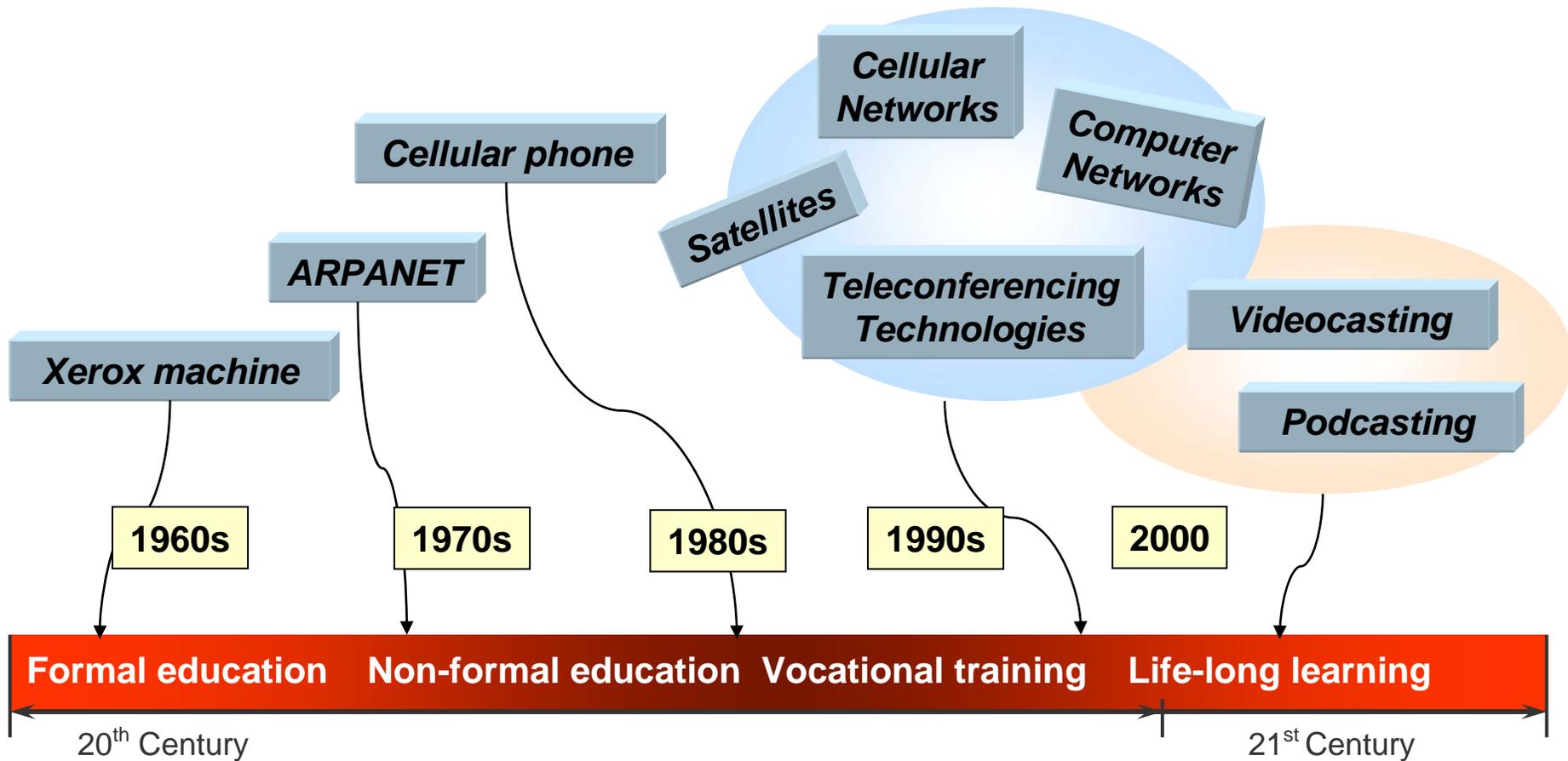
Radio
Television
Audiotape
Videotape
Books
Slides

Computer
Multimedia
CBT
Internet
WWW
CD/DVD
Virtual Reality

Ephemeral in nature for radio and TV
Easy access to large number of people
Reuse difficult
Most useful for mass delivery
Difficult to manipulate and do corrections

Digital learning resources
Easy to manipulate, duplicate and transport
Reusable with little difficulty
Globally accessible through network
Provides multi-sensory, multiple media in an integrated way
Personalized instruction
Cost intensive, though it is decreasing

ICTs development and changes in learning





ICTs role in learning activities

- **Subject matter**
- **Medium** to provide access to information and knowledge resources
- **Tool** to facilitate communication and learning processes



New Forms of Learning

New literacy types:

- **Technology literacy**
- **Information literacy:**
 - recognize when information is needed
 - have the ability to locate, evaluate and use effectively the needed information



New Forms of Learning

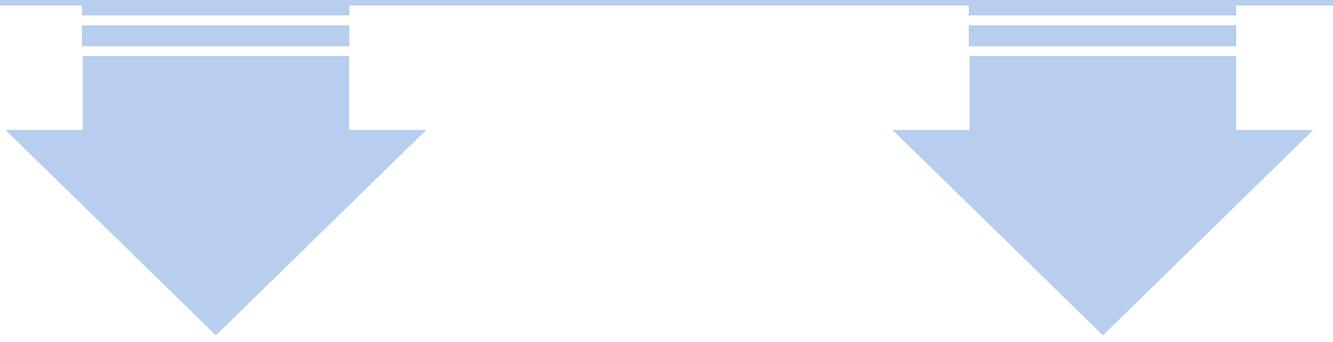
Nature of knowledge

- Increasingly interdisciplinary
- Increasingly contextual
- Application oriented ~ «learning by doing»
- Must reflect local/regional realities

New pedagogical paradigm

- Learning as a constructive process
- More than acquisition of basic literacy skills
- Non-formal and non-linear learning
- New flexible learning environments

Learning is a complex and diverse process,
which has to be monitored specifically
according to

Two large, light blue downward-pointing arrows are positioned below the main text box, one on the left and one on the right, pointing towards the two columns of text below.

Who the learner is

New adaptations
of the teaching
and learning process

What has to be learnt

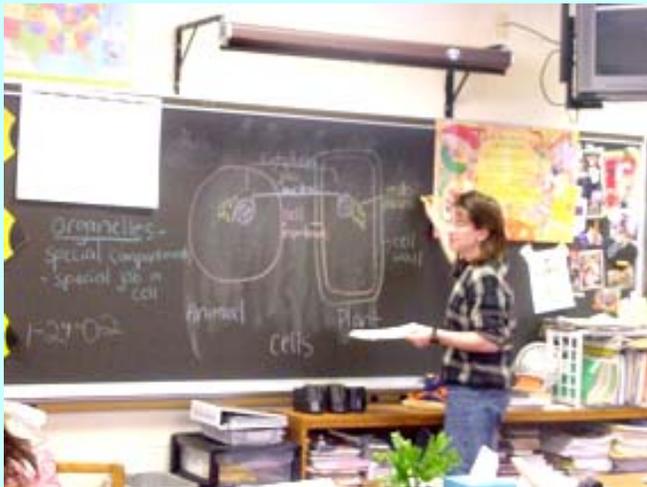
Customization of individual needs
and adaptation to the newly
discovered ubiquity



Conventional Education Model

Large Numbers

Lack of Resources



Strongly dependent on the **skills** and **knowledge** of the instructor.

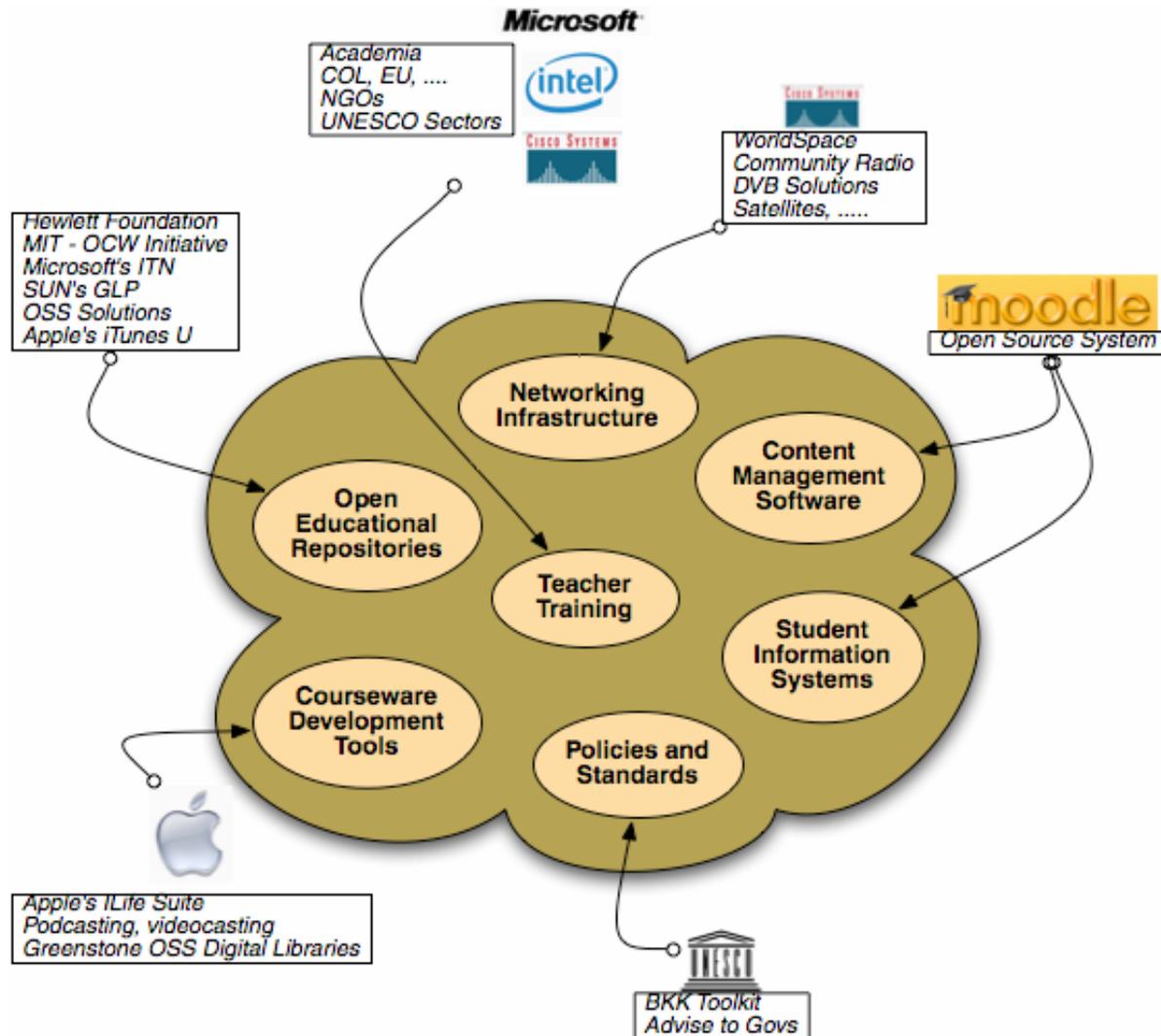
Involve the **direct** transfer of information between the teacher and the student.

Constrained by both **time** and **place**.

Limited by in-house available **resources**.



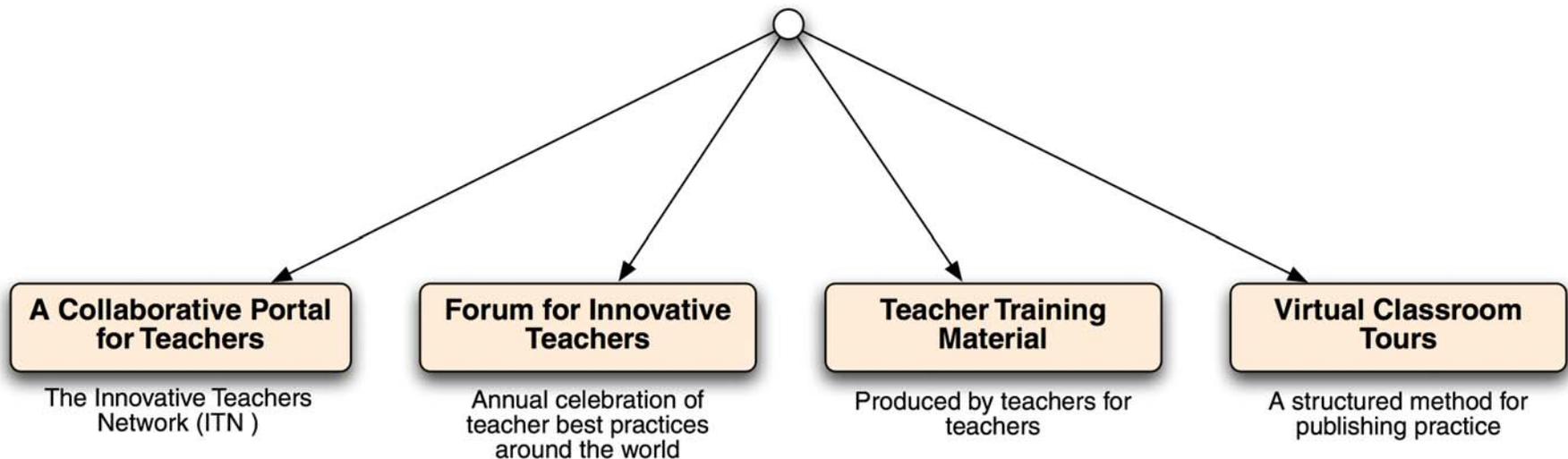
UNESCO's Holistic Approach





UNESCO-Microsoft Innovative Teachers Programme

Mission: To create a connected learning community of *Innovative Teachers* enabling them to communicate, publish, discuss and recognize *innovative ICT practice*.





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Thank you for your attention.

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