

# Shifts and developments in digital Education and Teaching

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ifip

30 years...

computers

new technologies

information and communication technologies

digital...

# A digital Society

Knowledge

Professions

# Can Schools and Education change?

Schools are reluctant

so many plans...

digital technologies: a competitor?

Knowledge is sacred

Changing the teaching profession

a better learning and teaching?

For which pupils?

## A necessary move

From digital technologies as technical tools to support some pedagogical techniques

to a vision in which digital technologies are the cultural support for the work and knowledge of the XXIst Century.

# Shifts and Developments

## 1. Irrigate Education with digital concepts

information

data

knowledge in a digital age

network

the Internet

connectivity

new rights and duties in a digital society

# Shifts and Developments

## 2. Learn and teach in a digital world: Digital pedagogies

pedagogies adapted to the new generations  
pedagogies of space and time  
“non-paper” pedagogies  
mobile pedagogies  
social pedagogies  
personalized and individualized pedagogies

*MOOCs, Clouds and Mobiles: a matter of pedagogy!*



# Shifts and Developments

## 3. Teach Informatics

“computational thinking”  
algorithmics and programming  
data and data processing  
information processing  
connectivity  
the Internet and networking

*“Program or be programmed”!*

# Shifts and Developments

## 4. Develop a “digital culture”

knowledge sharing  
cooperation for learning  
creativity

# Shifts and Developments

## 5. Network the schools

developing partnerships

communication as a way for learning

new learning spaces

the global networks as complementary spaces for  
learning

# Shifts and Developments

## 6. Change the professions of Education

managing the relevance of information and  
knowledge

knowledge construction

formal learning

“deep learning”

socializing the pupils

developing collective intelligence



thank you!

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