

Joint Research Centre (JRC)

ICT for Learning

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Anusca Ferrari & Christine Redecker**



*EU Science Journalists Association visit to JRC-IPTS
Seville, 20-21 January 2011*

IPTS - Institute for Prospective Technological Studies

Seville - Spain

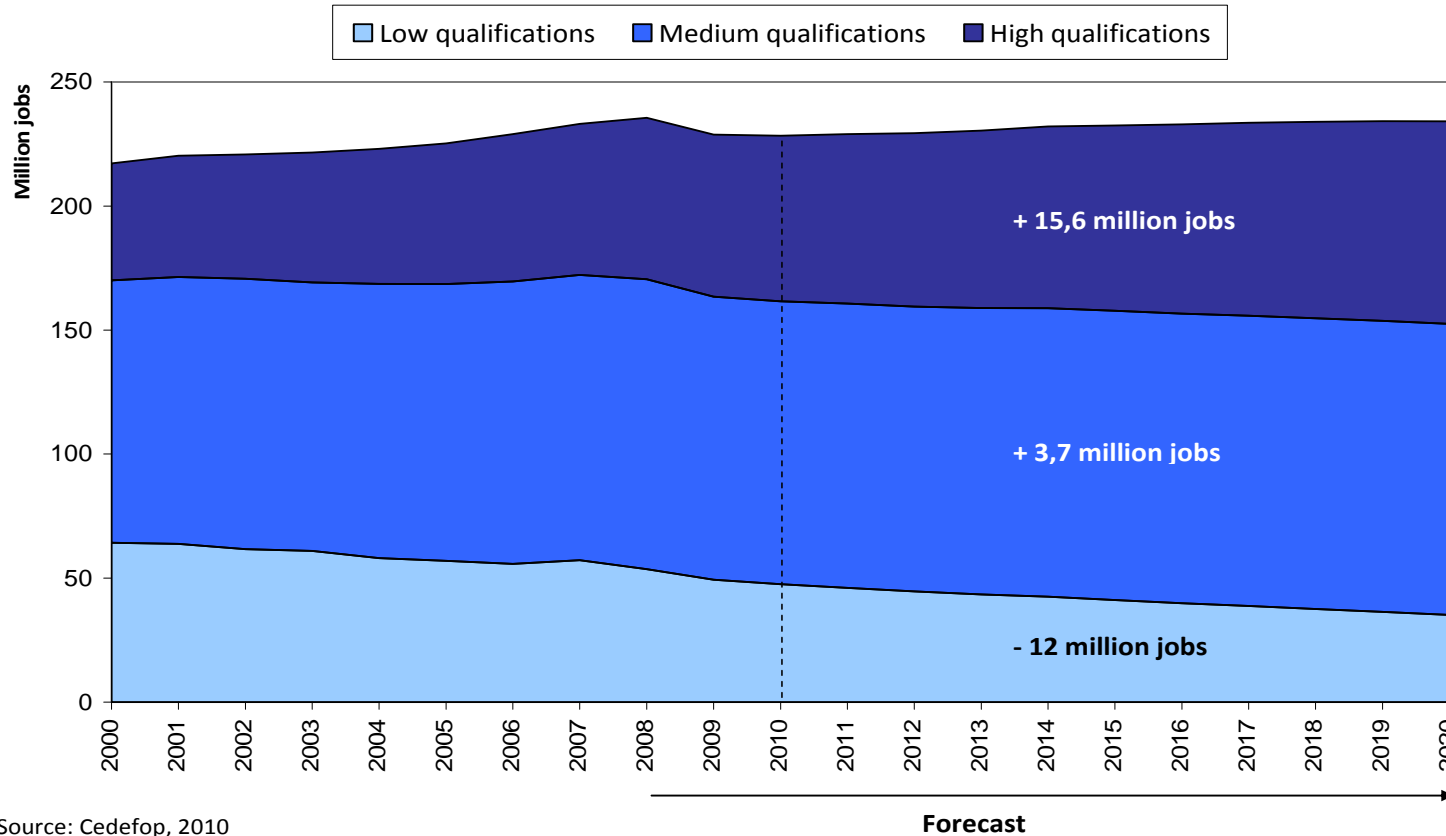
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As our societies are changing, we need to rethink Education and Training policies and to develop current and future learning opportunities that are more efficient, relevant, inclusive, innovative and meaningful than they ever were in the past.

Aim of our research is to provide evidence, guidelines and visions to meeting the Grand Challenge:

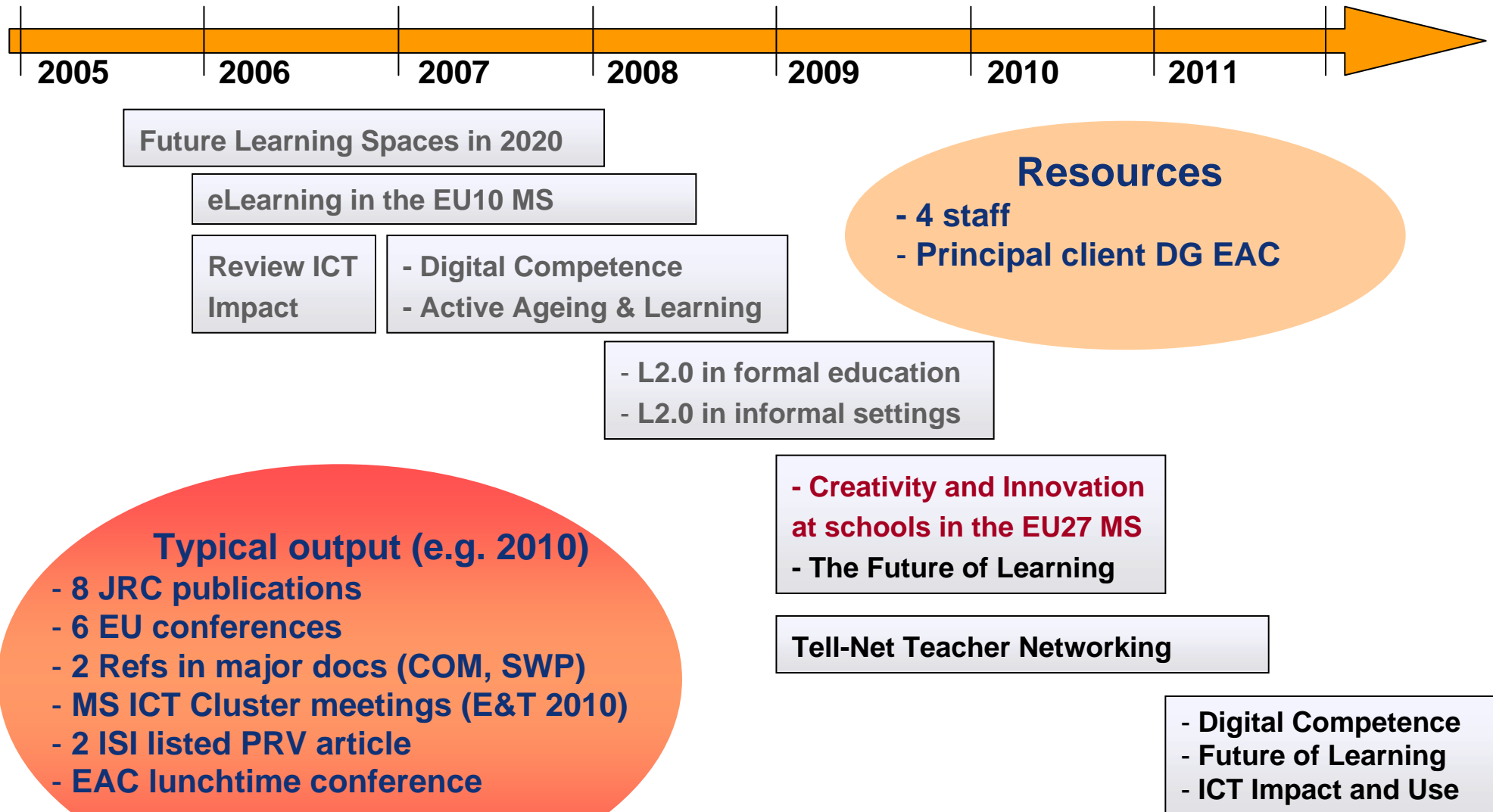
Educational Transformation in a Digital World



In 2020, of all jobs
 35% high qualifications
 50% medium qualificat.
 15% low qualifications

Source: Cedefop, 2010

According to European companies, 90% of jobs in 2015 will require some sort of ICT skills (IDC, Nov 2009)





EU 2020 Flagship initiatives

**Learning, Training & Skills
(formal, non-formal, informal)**

European Platform against poverty



Creativity
and Innovation
European Year 2009

JRC Scientific and Technical Reports

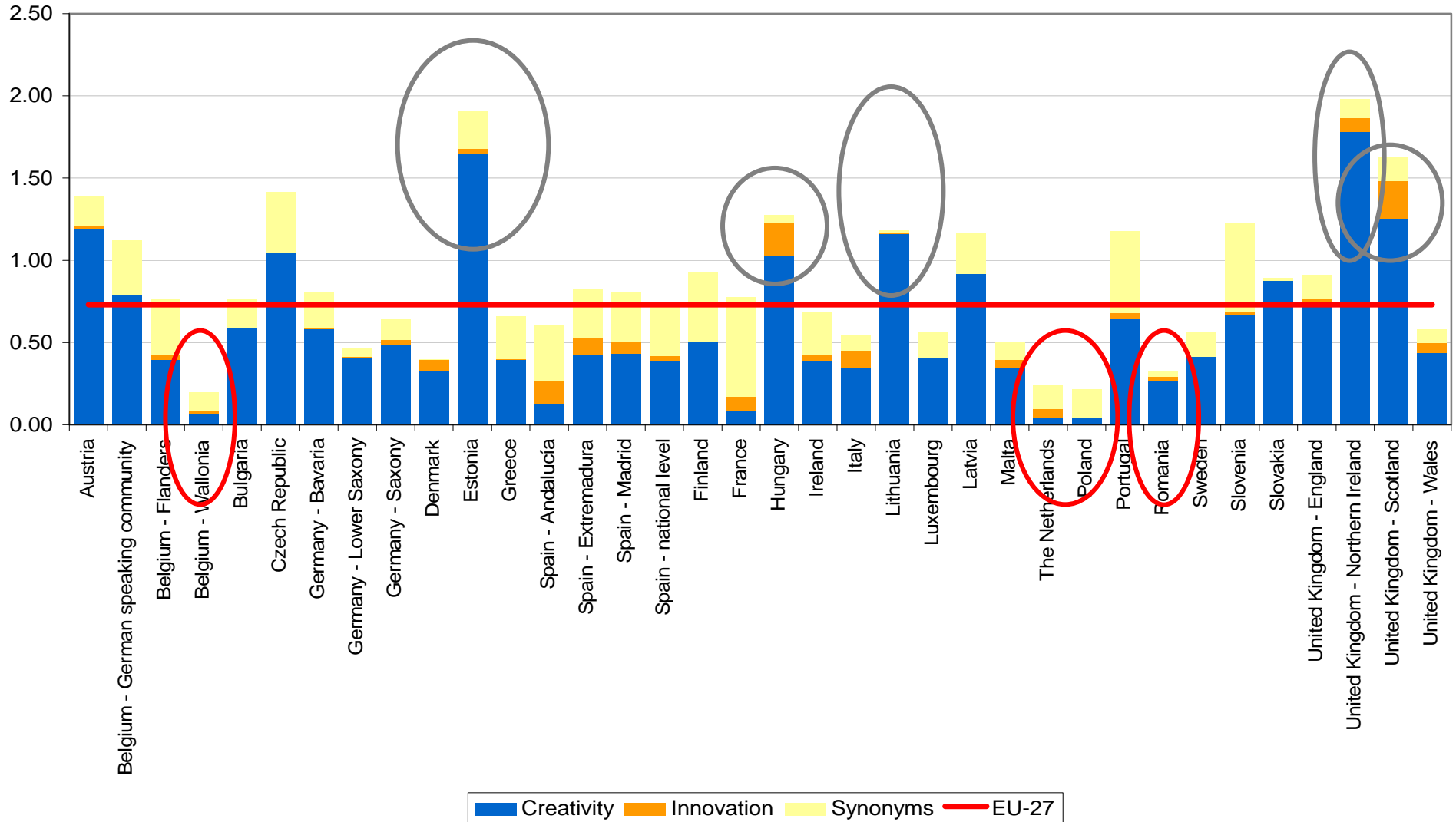


Creative Learning and Innovative Teaching
Final Report on the Study on Creativity and Innovation
in Education in the EU Member States

Authors: Romina Căchia, Anusca Ferrari, Kirsti Ala-Mutka and Yves Punie

*If you look for creativity in schools
in Europe, will you find it?*

Phase	Objective	Method
Phase 1	Validate methodological framework and focus of study	Scoping workshop (Febr 2009)
Phase 2	Review implications of C&I in education	Literature review (Dec 2008 – April 09)
Phase 3	Assess the role and relevance of C&I in EU 27 learning objectives (curricula)	Analysis of Curricula (Jul 2009- Aug 2010)
Phase 4	Assess teachers' opinions and practices on C&I in schools	Teachers' survey (Jul 2009 – Aug 2010)
Phase 5	Assess relevance of C&I at national level	Stakeholders' interviews (Nov 09 – Jul 2010)
Phase 6	Good practices of C&I in education in Europe	Good practices (Nov 09 – Jul 2010)
Phase 7	-To validate the results of the study	Workshop (June 2010)
	-To synthesize the main results of the study	Final Report (Jan 2011)



FUNecole®	Cyprus	Creative curriculum, active learning, virtual platform & print
Summative project	Denmark	Group work, cross-curricular, formal assessment
Open air classroom	Estonia	Explicitly foreseen in time-table
Historia del dia	Portugal	Daily Webstory
“See” the sound	Greece	ICT for mathematical and physical concepts
Value in the Valley	The Netherlands	Entrepreneurship and innovative professionals, with employers
Authors and Poets	Malta and Schotland	Pupils blog with twinned school
Project Maths	Ireland	Revised syllabi for secondary mathematics, meaningful concepts
Swedkin	Sweden	Website on minorities, diversity, raising inter-cultural dialogue.
Cross-curricular projects	UK-Schotland	Group works during the spring and summer terms.

62% said to have received training in **innovative pedagogies**

41% said to have received training in **creativity**

36% said to have received training in **ICT**

23% said to have received training on **how to teach** during
initial teacher training

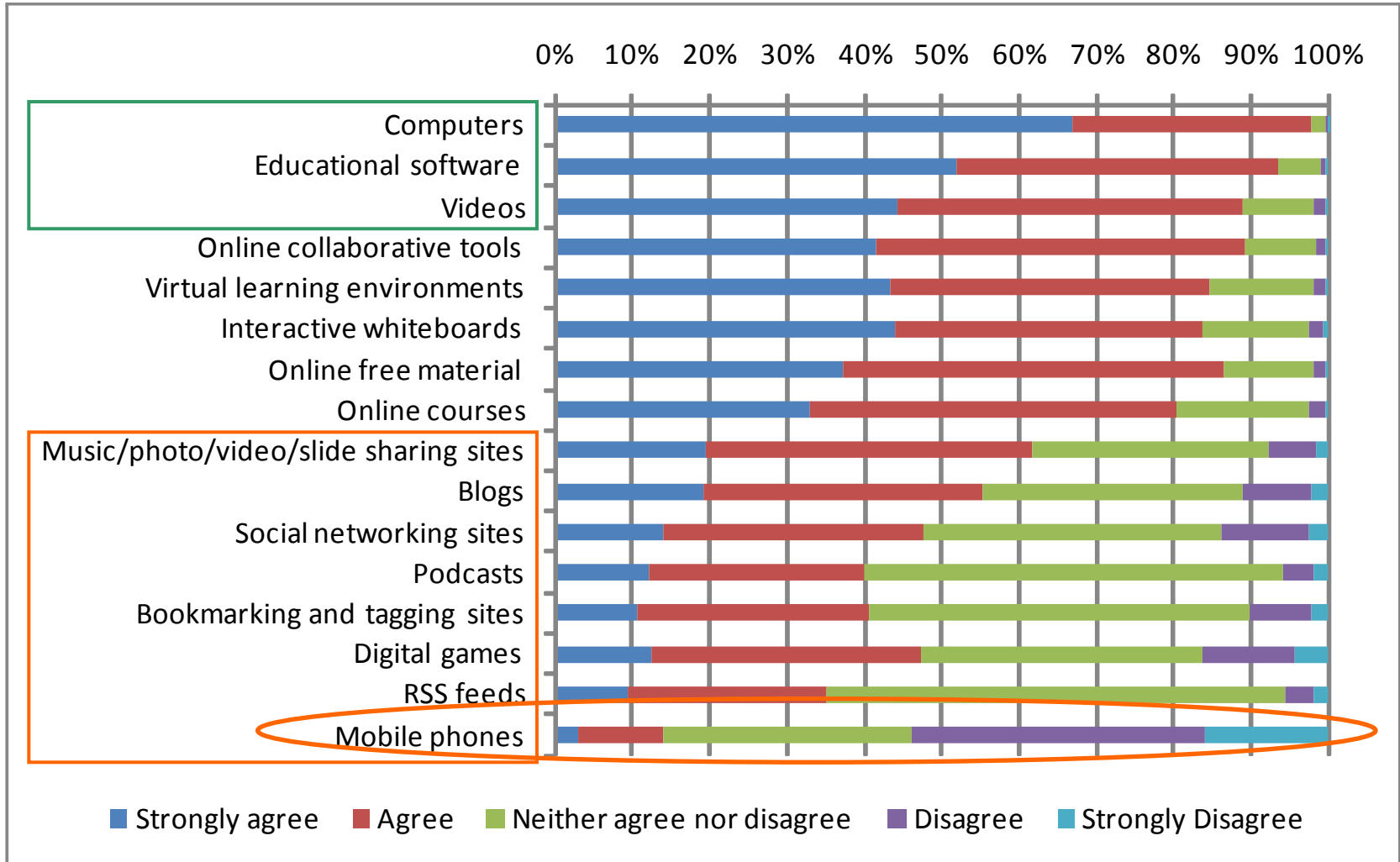
90% would like to receive **training on creativity**

N=7659 (not representative)

Teachers in obligatory schooling - EU27

Source: IPTS in collaboration with EUN

Do you consider these technologies to be important for learning?



Curricula

Assessment & Pedagogy

Teacher skills development

ICT and digital media

Culture and leadership

**Competence-
based**

**Creative
learning
Innovative
teaching**

**Learning &
Teaching**



Thank you for your attention!

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<http://is.jrc.ec.europa.eu/pages/EAP/eLearning.html>