



The Future of Learning

Imagining Learning in 2025



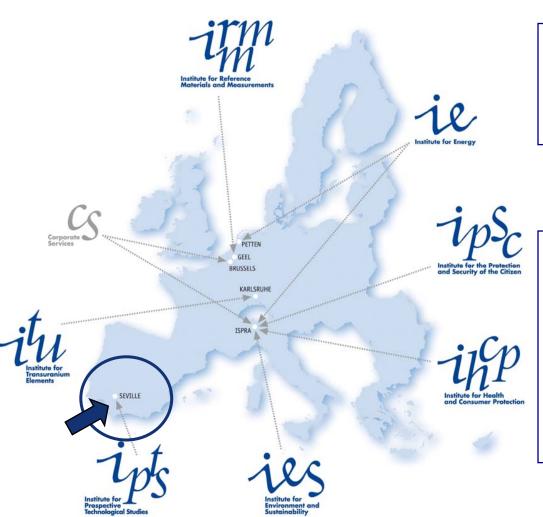
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The views expressed by the authors are not necessarily those of the EC



Institute for Prospective Technological Studies





IPTS: One of the 7 Research Institutes of the European Commission

Mission:

- support EU policy-making
- research on topics with a socio-economic and a scientific/technological dimension



Research on Learning at IPTS



Learning Spaces

2006-2008

Study on learning with technology in the future

Learning 2.0

2008-2009

Study on the use of social media in primary, secondary & tertiary education to support innovation and inclusion

Study on learning opportunities in online networks and communities

Study on
Creativity & Innovation
in
primary & secondary education

→ Teacher survey on creativity

Study on

The Future of Learning

New ways to learn new skills for future jobs



IPTS Future Learning Spaces 2020



Learning Spaces

Study on learning with technology in the future

2006-2008

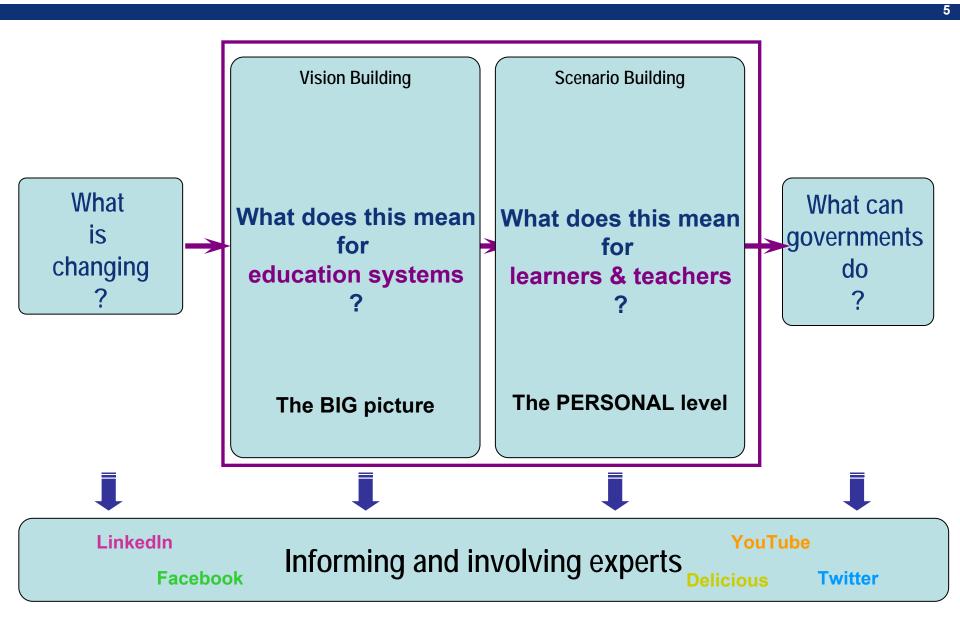




Foresight on the Future of Learning



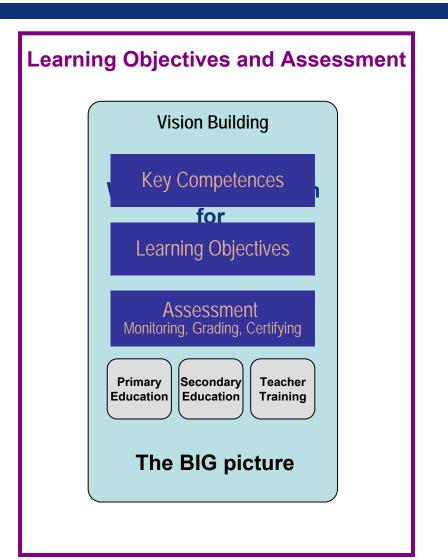


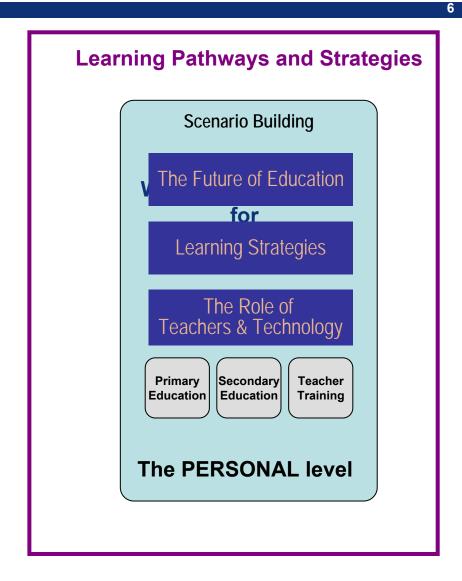




Foresight on the Future of Learning









JRC Workshop 2: Learning Objectives & Assessment



Vision building **Brainstorming Key Competences** Session 30 min **Learning Objectives** Group Secondary **Teacher Primary** Education Education **Training Session** Assessment Monitoring, Grading, Certifying 45 min



Future Skills and Competences



What will be the most important skills, the

key competences

people will need in 15 to 20 years' time?

- → Write each idea you have on one post-it note
- → Stick all post-it notes onto the big poster on the wall

communication in the mother tongue communication in

foreign languages

mathematical

competence and basic competences in science and technology

digital competence confident and critical use

learning to learn

pursue and organise one's own learning

sense of initiative & entrepreneurship

turn ideas into action; involves creativity, innovation, risk-taking,.

social and civic competences

engage in active and democratic participation

cultural awareness & expression

of ideas, experiences and emotions different media

2010

The Present – and the Future!

Reading skills for all

Communication skills

Languages

High level of mathematics for all

Media literacy; Finding, selecting and processing information quickly; using ICT effectively; Creating digital information; Being online 24/7; Web2.0; Management of digital identities

Innovation; Creativity; Entrepreneurship

Mobile learning; Learning to learn; Selfstudying; Making investigation in internet; Learning by doing Problem-solving; Analysing; criticizing; Keep things short and simple

Environment; Nature

Identity; Self-confidence; Self-esteem; Keep independence;

Active participation in society; Collaboration skills; Co-operation; Conflict resolution skills; Networking

Understanding diversity; Intercultural dialogue; Cultural identity

Flexibility to change; Openness to change; adapting to change; Stress management

2030

European Commission: Key Competences (2006)

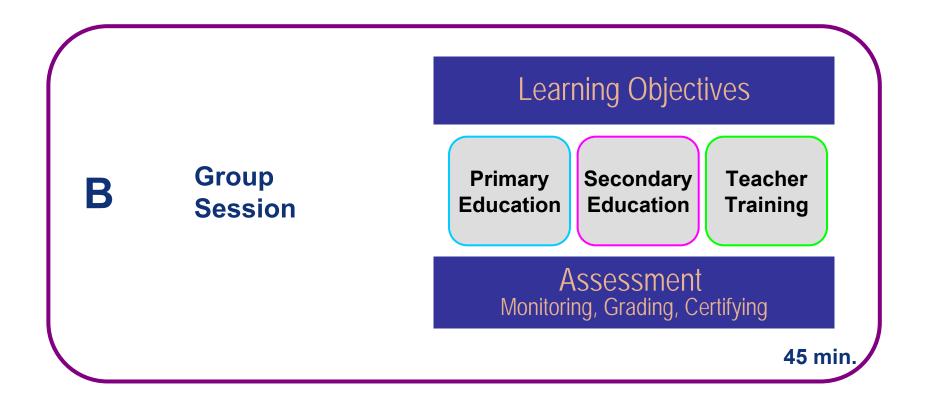
eTwinning workshop participants: Key competences for the future





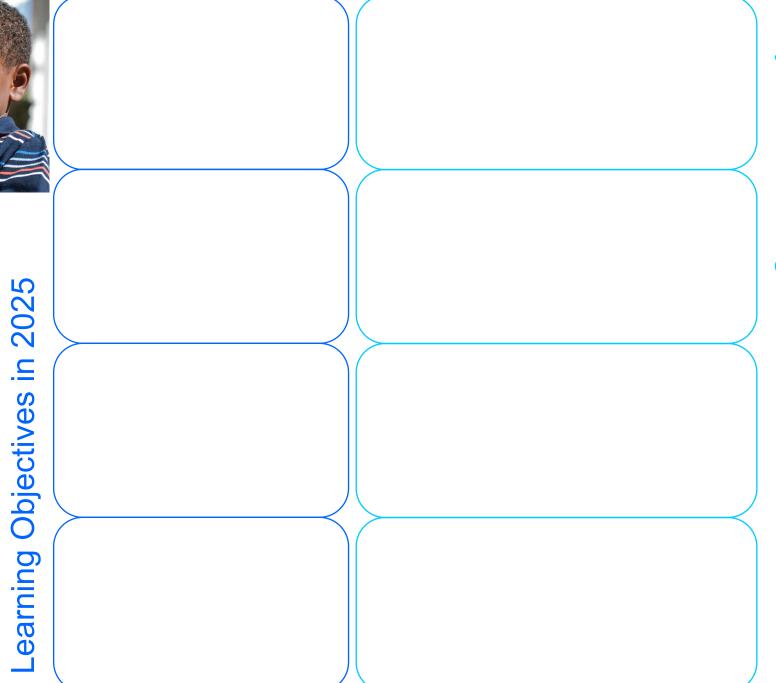
How can the future key competences be translated into learning objectives?

How can these learning objectives be assessed?



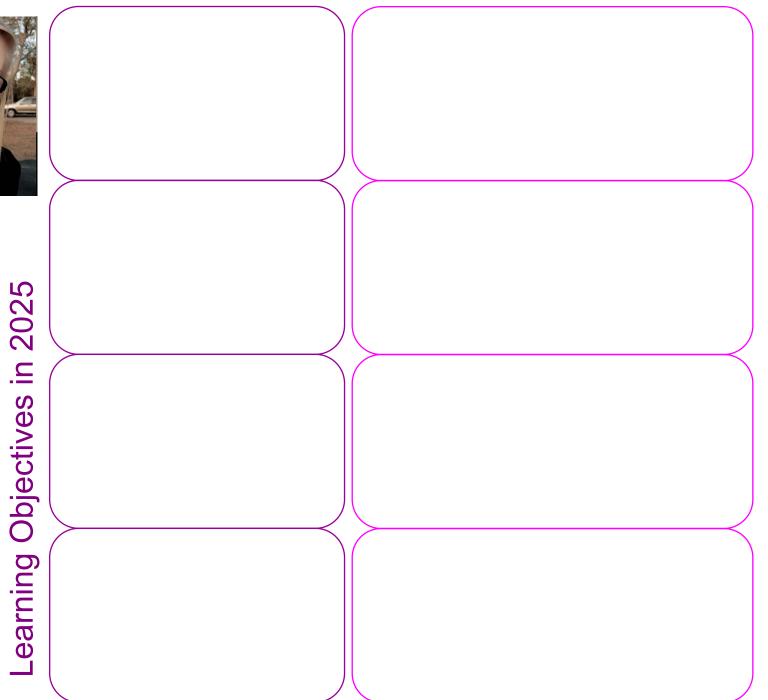


Max 6 years old in 2025



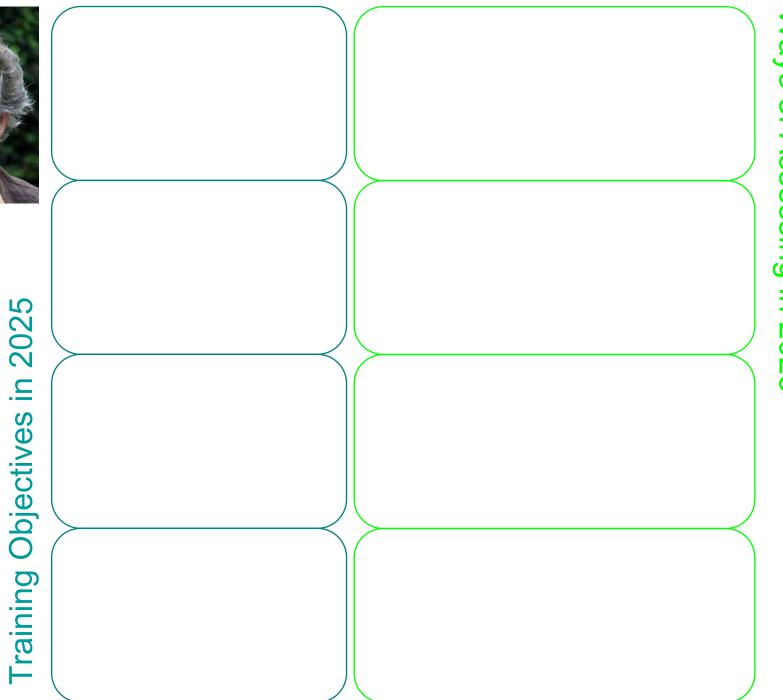


Emma, a 16-year-old in 2025





Daniel, biology teacher 52 years old in 2025





Participants' Findings: Overview



