

Transformation of teaching and learning processes

Some issues on innovation in school education

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Presentation structure

How to define innovation in school education?

• Is the school environment so favourable for innovation? Does technology make a change?

 Main challenges of innovation in school education with a focus on the teacher of the 21st century





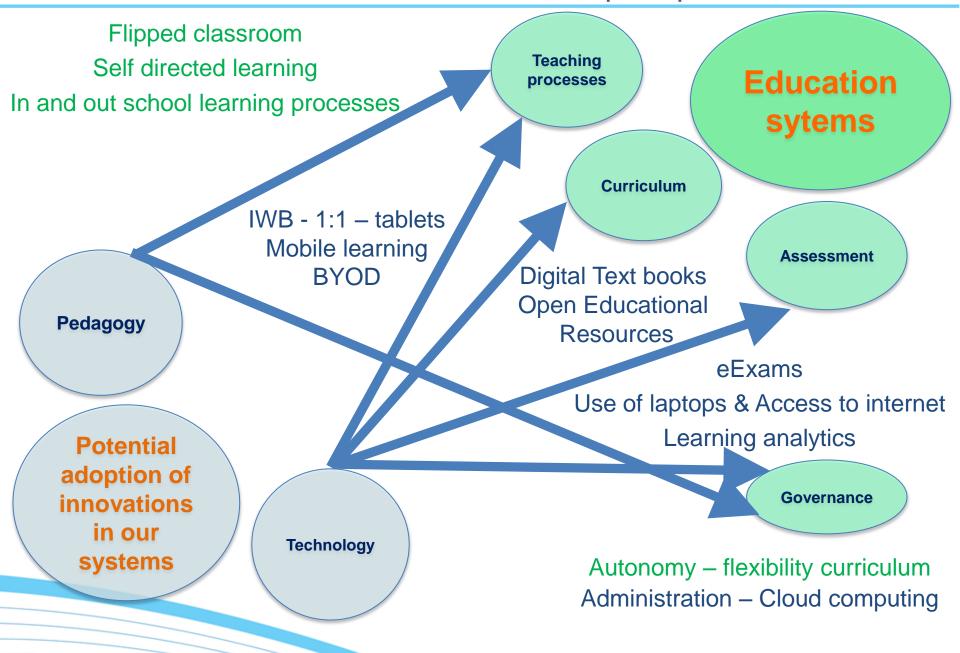
How to define innovation in Education

- An idea, practice, or object that is perceived as new by an individual or other unit of adoption [Rogers, 1995] — Innovation is contextual
- An innovation is a change that creates <u>positive value</u> and is <u>better or</u> <u>more effective</u> than its predecessor [Kirkland and Such, 2009]
- **Significant educational innovation** or change in practice must contain three elements:
 - Use of new revised materials (curriculum materials or technologies)
 - Use of new teaching approaches (teaching strategies or activities)
 - Alteration of beliefs (pedagogical assumptions) [Fullan, 2007]





Innovation in school education – a complex process



Is the school environment so favourable?

Does technology make a change?

Is the school environment so favourable?

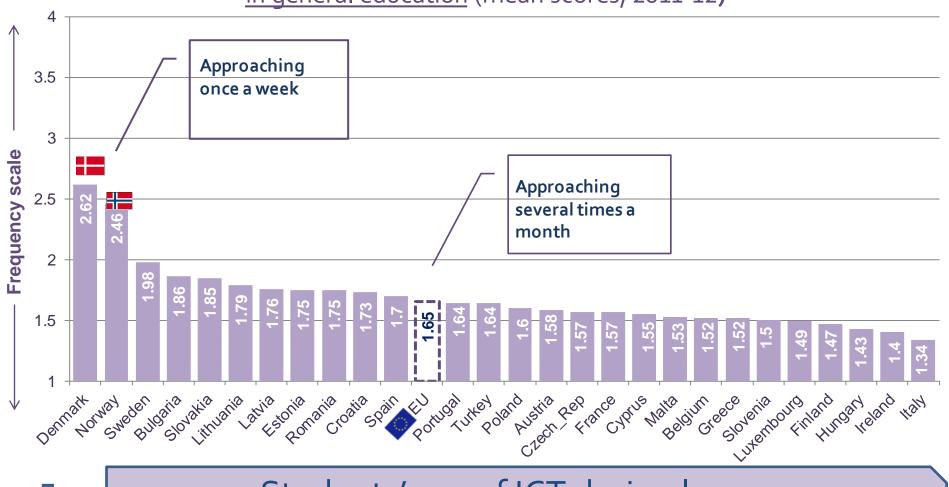
School boredom has no chance against the addictive draw of the outside world

Within schools, technology is visible by its absence or by its superficial ad hoc use



The Survey of Schools: ICT in education

Student's ICT based activities frequency during lessons at <u>grade 11</u> <u>in general education</u> (mean scores; 2011-12)

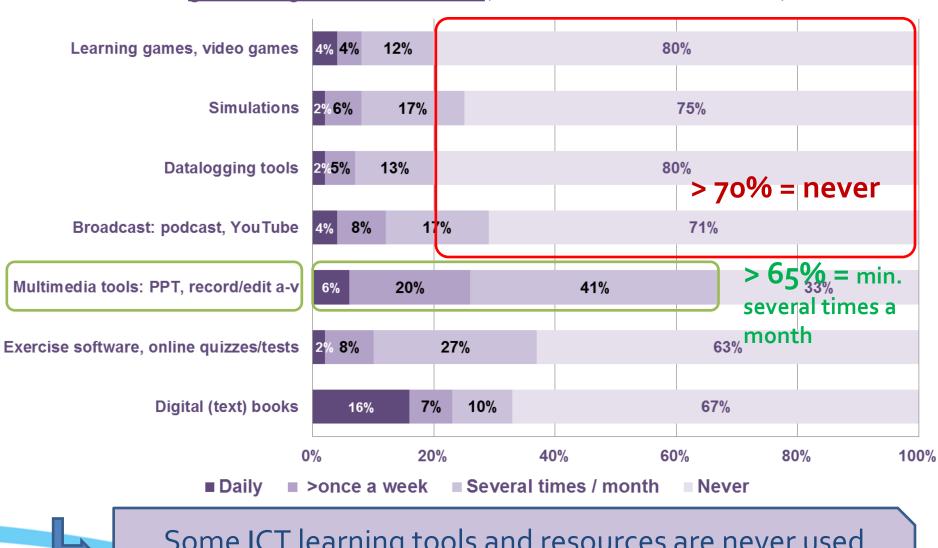




Students' use of ICT during lessons not yet on a weekly basis

Students' use of resources and tools during lessons

at grade 11 general education (in % of students, EU level, 2011-12)





Some ICT learning tools and resources are never used during lessons by a large majority of students

Is the school environment so favourable?

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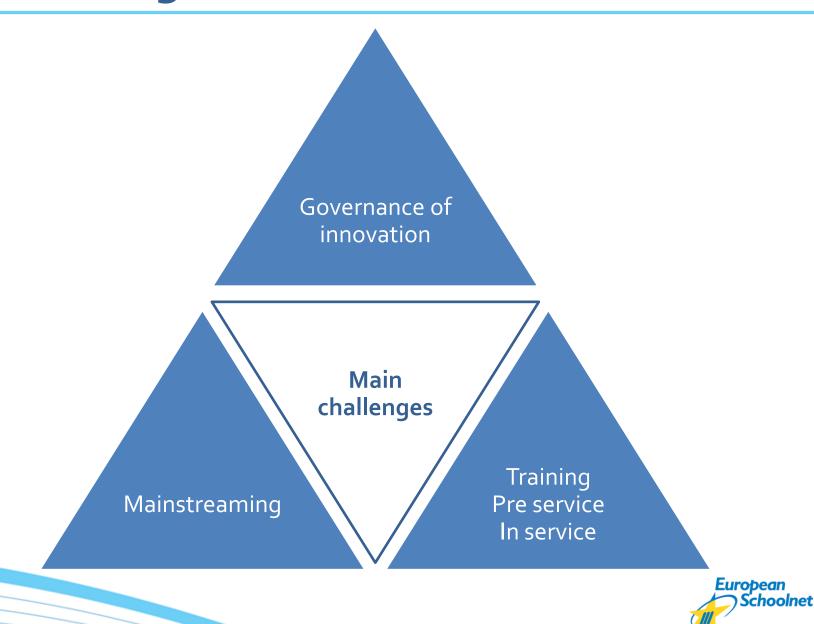
How can technology help engaged learning?



Main challenges of innovation in school education

Focus on the teacher of the 21st century

Main challenges of Innovation in Education



Governance of innovation - New role of the central level

Validation the conformity Compliance and regulation



Support to schools Flexibility

Instruction to schools how to operate



Support schools in a differentiated manner to make their choices

Take the measure of the necessary change At **all levels** of the **governance process**

Challenge of **responsibility** (accountability) and of **assessment**



Teacher training for the 21st century

A quantitative challenge

3.000.000+ missing teachers (UNESCO)

Also a challenge at EU level

60% of teachers above 40 years-

A qualitative challenge

« Efficient professionals»

New training models better preparing for practice



What is an efficient teacher in the 21st century?

A professional with a high judgment capacity in situation

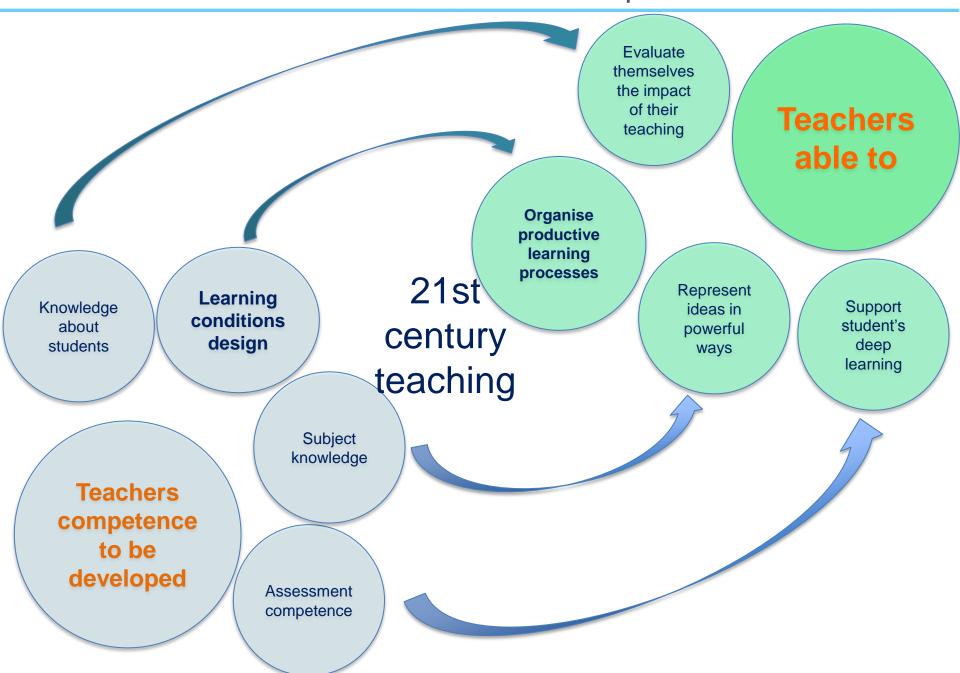
Teaching today is about being a reflective professional teacher

(Donald Schön)

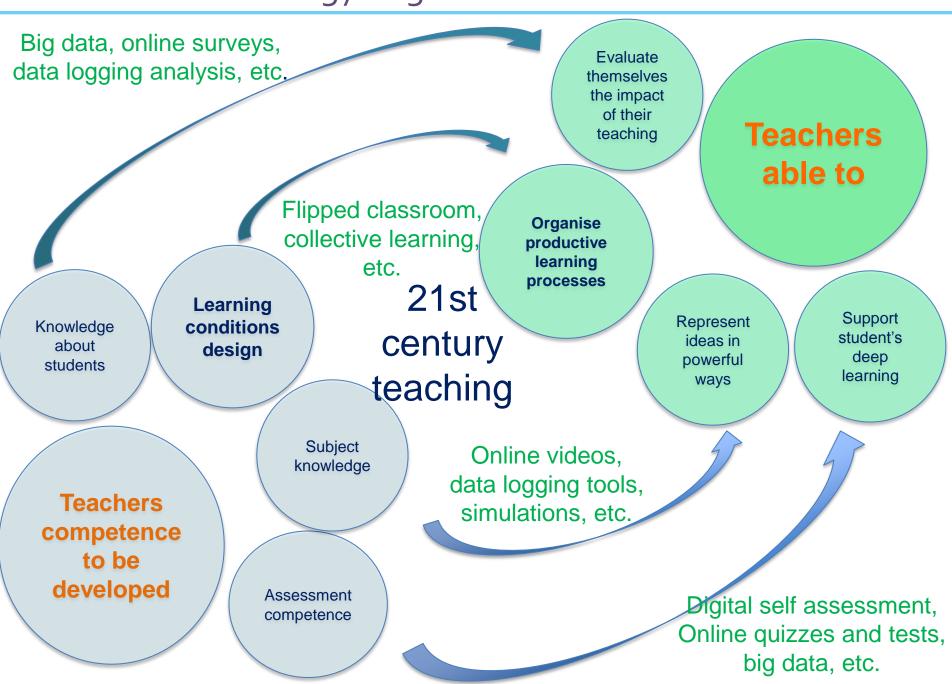
The professional teacher as one who learns from teaching rather than one who has finished learning how to teach Linda Darling-Hammond,

Stanford Graduate School of Education

How to train a teacher to be an efficient professional?



How to use technology to get there?



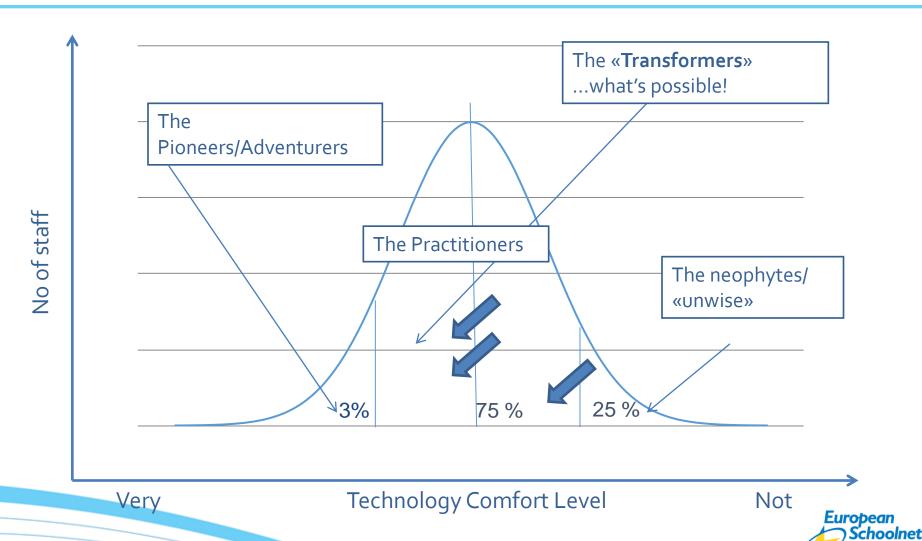
- 3 key areas for teacher professional development
- 1. creative approaches to teaching and learning
- 2. teaching and learning with digital technologies
- 3. personalising student assessment.

If a 5% annual increase in the education budget were targeted on professional development in these areas, it could have a huge impact on the quality of teaching, learning and achievement in all schools.

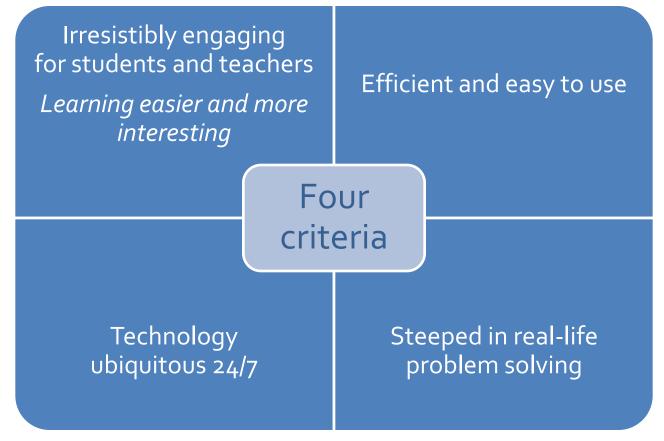
Sir Ken Robinson (November 2013)

Mainstreaming issue

From a few to many ... getting everyone involved

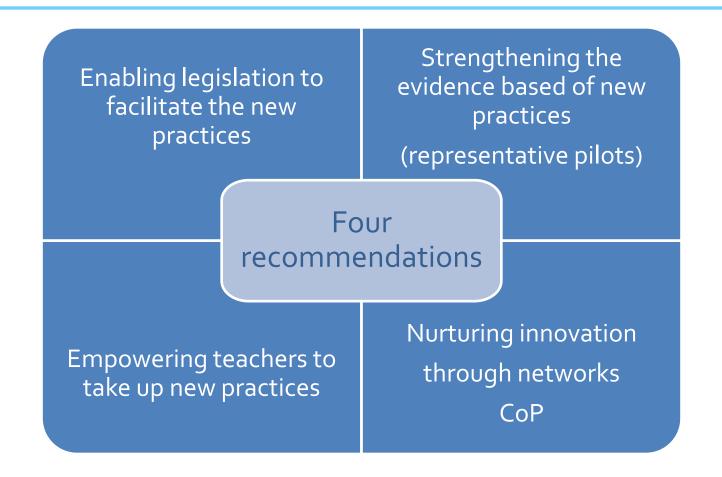


Integrating technology and pedagogy in teaching and learning processes



Don't focus on technology – focus on its <u>purposeful</u> use Interrogate every new technology for its potential to serve educational aims

Recommendations - mainstreaming approach



Balance between top down and bottom up approaches





The 3 critical success factors

Make it known

 Evidence demonstrating it can happen – practices videos

Recognition & Time

 Giving recognition and time to teachers

Political decision

 No way backwards possible



Conclusion

- The future classroom more a pedagogical challenge than technological
- Complex issue
 obstacles to overcome technical integration but more
 importantly in terms of processes
- Cooperation and comparison between countries indispensable laboratory of practices and analysis
- Research (and evaluation)
 even more necessary to support and guide a major evolution
 of our education systems



Thank you

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