

Anja Balanskat

Anja.balanskat@eun.org









"Using mobile devices in education in European countries"



Experiences from 1:1 studies and the Creative Classrooms Lab project









What you will hear today?



- 1:1 initiatives across Europe
- Early tablet initiatives
- Outcomes, difficulties, sustainability
- European policy experimentation on the use of tablets:
 - The Creative Classrooms Lab project











Mobile learning- key actors



UNESCO

- Mobile learning is learning anywhere, anytime through the use of mobile technologies. It also includes administration and management support.
- Broad definition of mobile devices: tablets, mobile phones, e-readers, portable audio players, hand-held gaming consoles, etc.

WORLDBANK

Blog- International monitoring, developing countries

EUROPEAN SCHOOLNET

1:1 computing initiatives vs 1:1 learning initiatives









Mission



- Action projects for pilot testing and capacity building
- Conducting research and disseminating knowledge
- Providing guidance to Ministries of Education educational authorities, headteachers and teachers











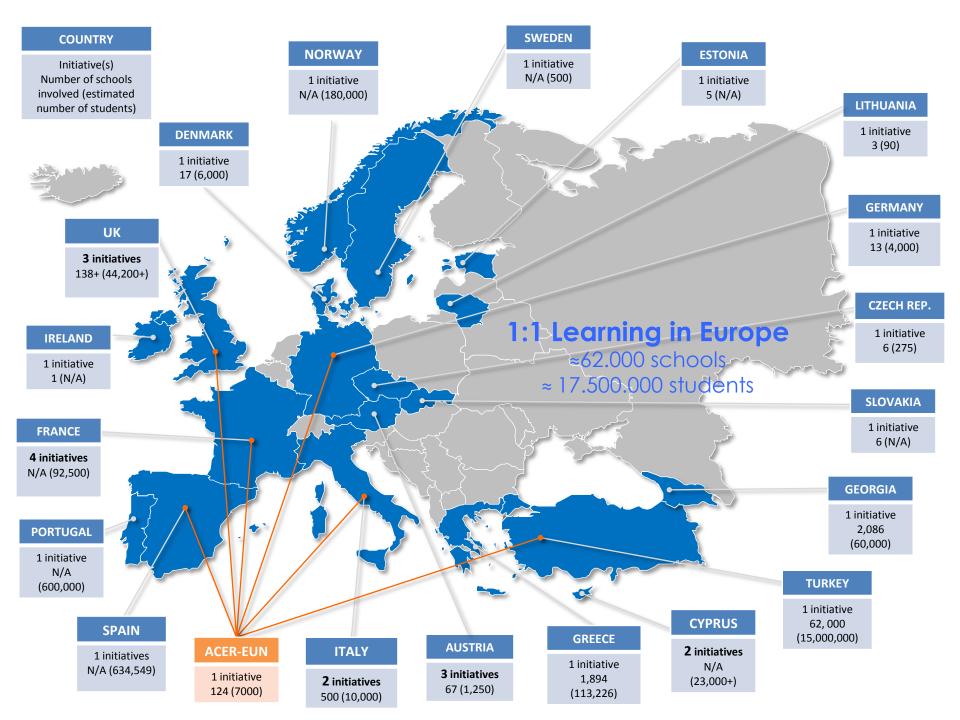
Overview and Analysis of 1:1 ...

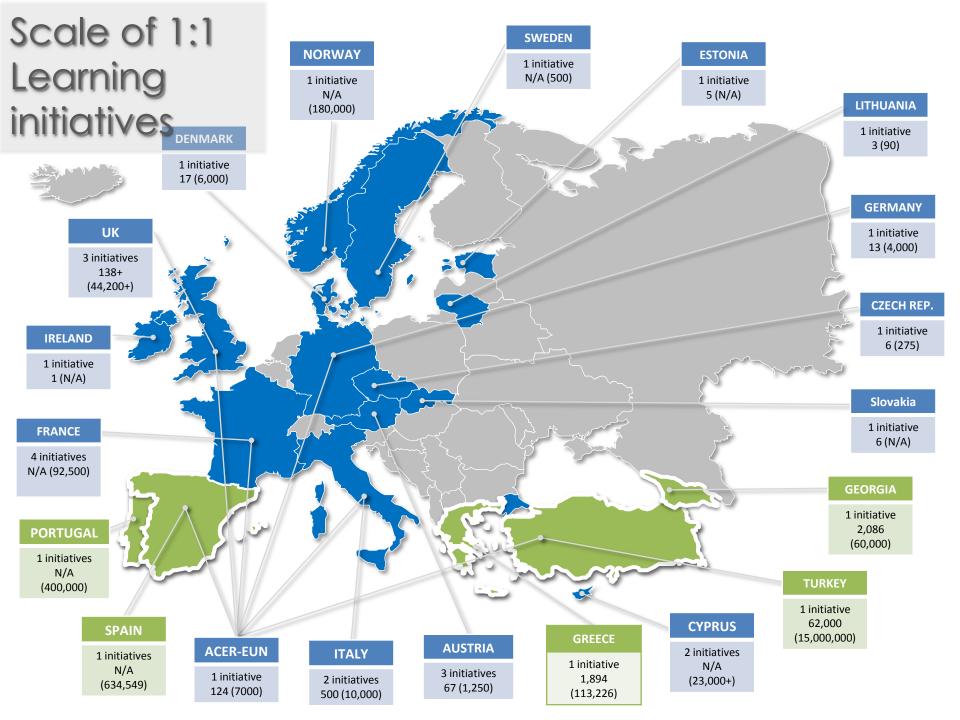




Overview of 1:1 initiatives in Europe

- Based on the 1:1 Learning study carried out by European Schoolnet (from Jan to Dec 2012) for JRC -IPTS
- 31 recent initiatives in 19 EU countries
- 62,000 schools, 17,500,000 students
- Target: Primary and secondary schools, educational focus
- Inclusion criteria:
 - launched within an educational framework
 - started not earlier than 2008 (*ongoing)
 - significant scale and/or impact







Early Tablet Initiatives

France: "Ordicollège 19", (2010-2011), Département de la Corrèze, first year students in lower secondary education were provided with a tablet.

Lithuania: (2011- 2012), Use of iPad tablet devices in education, 90 students in 3 secondary schools

Scotland: The iPad pilot (2012) was part of an exploratory programme launched by the Scottish Government, 8 Primary and secondary schools, 365 students

UK: ipad at Longfield academy (2009-2012); bottom up, local, PPP, 800 secondary students. Tablets for schools

Turkey: FATIH Project, 2011-2013: 42000 schools, grade 5-12 in preschool, primary and secondary education????

1:1 Learning initiatives vision of the ICT use

Objectives	N. of 1:1 init.	Initiatives by country
Innovate classroom and learning practices	7	UK, AT, IT, FR, DK
Implement 1:1 pedagogy	9	EU, ES, PT, SK, SE, IT, CZ, DE, DK
Improve students' learning outcomes	4	UK, SE, IE
Improve students' ICT skills and motivation	7	AT, FR, GE, ES, DE, CZ
Improve access to quality educational resources	3	DK, NO,
Foster anytime-anywhere learning opportunities (school &home use of the device)	12	AT, ES, CY, EE, FR, UK, EU
Increase ICT provision in schools	8	EL, FR, LT, TK
Provide access to (advanced) ICT equipment	4	CY, DK, LT,
Improve communication between students, teachers and parents	5	AT, CZ, FR, ES
Support leadership development	1	DK
Reduce the digital divide	5	CY, IE, LT, FR, PT, TK
Collect hands-on experiences /evidences	3	AT, LT, EU

^{*} Each initiative focuses on more objectives



What outcomes 1:1 Learning initiatives have achieved?

From a teaching and learning perspectives

- Improved participation levels in class and better school attendance rates.
- Extended learning opportunities outside the school
- Development of 1:1 pedagogies
- No significant results considering grades
- Impact on school organisational practices (e.g. AT, ES) and social impact (e.g. IE, FR)



Difficulties reported in 1:1 learning

From practitioners

- Lack of clear implementation strategies;
- Lack of relevant educational resources
- Lack of training of teachers (in-service as well as initial) specifically on 1:1 pedagogy
- Higher initial teachers' expectations, which diminished towards the end of the project.
- Technological support



Prospects for sustainability

- Co-financing models in the provision of devices could offer a longterm prospective and possibility to make 1:1 an ongoing programme.
- Patterns of ownership and deployment;
- Adoption of an integrated (school/home) and systemic approach to change, including changes in the curriculum, assessment and organisational practices.
- Long-term planning, to ensure stability and efficacy;
- **Scaling-up** based on evidence to embed contextual and social practices, regardless of technology; it also requires consideration of pedagogical cultures, the building of teachers' networks ("scaling aside") and creating incentives for teachers.



SHAPE THE FUTURE



The 1:1 initiative "Ordi 60-One student one portable device" in the Department of Oise (France)

Total investment: €28 Million,

over 3 years

Period: 2009-ongoing Scope: 81 schools, 3500

teachers, 68 000 students and

their families

Grades: grade 6, 11-12 years

old

Type of devices: 66,000 laptops/12,000 netbooks, tablets (to be supplied in 2014)

Finance/Ownership model:

Loan scheme

One student, one laptop initiative) in the Department of Landes (France)

Total investment: €50 Million

Period: 2001-2013 (ongoing)

Scope: 147 classrooms, 37

schools 1200 teachers,

51,000 students (two grades

each year)

Grades: 13-15 years old

Type of devices: 500

laptops, 960 IWBs, 976

digital projectors, and 976

desktop visualisers

Finance/Ownership model:

Loan scheme



Quantitative Evidence Survey of Schools: ICT in education

- Relatively few students in 1:1 classes, concentrated in a few countries and at specific grades
- Limited use of their own devices in classes, but increasing with the level of education
- Minimum 50% of grade 11 students entitled to BYODlaptop/tablet in around half of the countries, but broadly used during lessons only in Denmark







Quantitative Evidence Survey of Schools: ICT in education



 ...doesn't say anything about the quality of the use and effect on educational outcomes











Results from Pilot Projects

1. Main results arising across

the Netbook Pilot countries

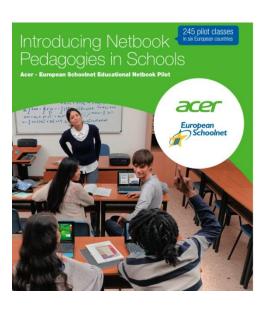
- □ Netbook impact
- Netbook usage
- Using netbooks out of school

2. Recommendations



New:

- Acer/ Chromebook Pilot
- Samsung Pilot



3. Results from the Tablet Pilot countries

- ☐ Teaching with the tablet
- ☐ School and home use
- □ Impact

4. Recommendations







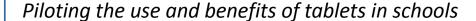


Main results

- Develop 1:1 pedagogy and learning scenarios
- Alternating of teaching approaches
- Let the device go home, and use it outside the classroom
- Balance between innovation and step by step integration
- Use of devices in assessment
- Preparation vs. integration

Creative Classrooms Lab (April 2013- March 2015)

"Is it a classroom that is nicely decorated?"



Creative: develop innovative pedagogical scenarios, focus on how practice is changing as a result of tablets being used for collaboration, personalisation and active learning.

Classrooms: carry out pilots in 45 classrooms in 8 countries: Austria, Belgium, Czech Republic, Italy, Lithuania, Portugal, Slovenia, UK

Lab: Act as an ideas lab bringing together policy makers, innovative teachers and industry suppliers





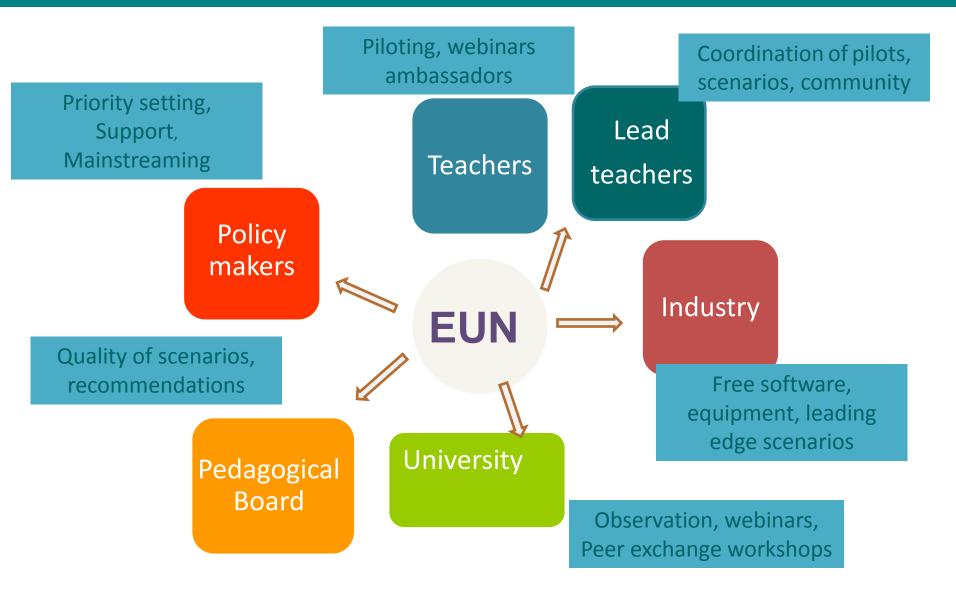
Policy Experimentation | Scenarios | School Pilots

Learning stories

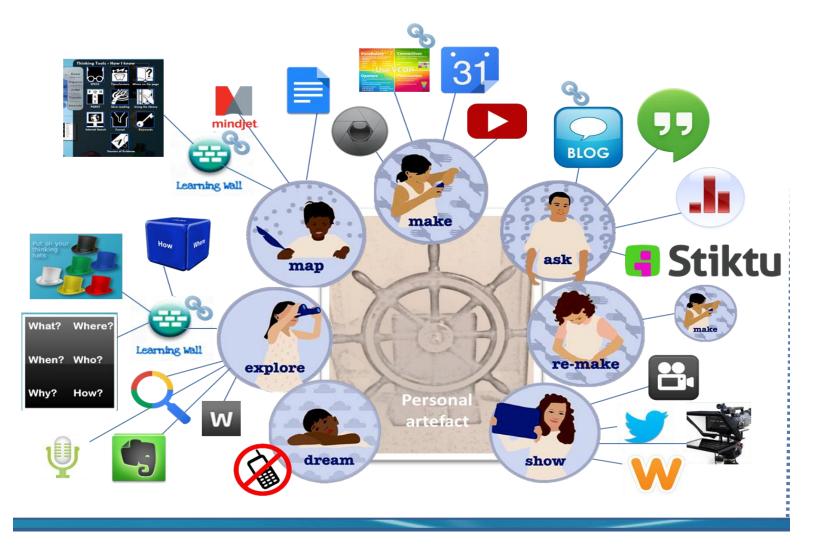
Policy Priorities Use of digital resources Liberating Flipped Classroom **BYOD (Bring Your Own Device) strategies** Learners Supporting in rmal, non-formal learning school use, home use sroom **Content Creation** Collaboration & Assessment assessment Cloud Computing **Exploring new forms** Personalisation Integration with other technologies: IWDS Investigating funding, ownership and access models **Creation of digital resources** School to school Collaboration Integration with other technologies: VLEs collaboration Engaging other actors in the process of learning (libraries, museums, local business)

Scenarios for pedagogical change?

Project Actors experimenting at all levels...



How the tablets are used



Liberating Learners Scenario

UK, Portugal, Lithuania



"The development of independent learning and thinking skills through real life (authentic) tasks and learning beyond the classroom walls."

- Peer to peer sharing/mentoring
- Students developing a learning vocabulary
- Development of positive learner attributes and preferences and dispositions
- Project work with an authentic basis
- Developing guidelines for teachers to 'let go'
- Assessment tools including self-assessment

MINISTÉRIO DA EDUCAÇÃO

Reflection









Many examples of the creative classroom







http:/creative.eun.org/videos

UK | School: Penwortham Priory Academy | Teacher: Lisa Cowell

UK/Skinners Kent Academymaster EU video-5min on Vimeo



Why tablets?



- Mobility
- portable active learning experiences -> conceptual

portability

- Affordability
- 1:1
- Functionalities
- Unobstrusiveness-> greater focus on the learning









"The Future of education...



is in the content, not the 'container'.



It's about more than just content, of course -- it's also about the **connections** and the **communities** (students collaborating with each other, teachers supporting other teachers) that technologies can help enable, catalyze and support as well."

Mike Trucano- Worldbank









It is not the content...

Educação

that is inspiring, but.... the teacher



Co- development of content- active learning

 Pedagogical scenarios/learning stories that foster collaboration and independent learning

 Part of an ecosystem at school and one that successfully – links school and home

Picture credits
Bassconnections.duke.edu









EUROPEAN GONFERENCE



Creative Classrooms Lab: Final observation visit results and recommendations

http://creative.eun.org



See you on the 25 March in Brussels.
Thank You!







