



Digital Education Action Plan: priorities, actions and timeframe

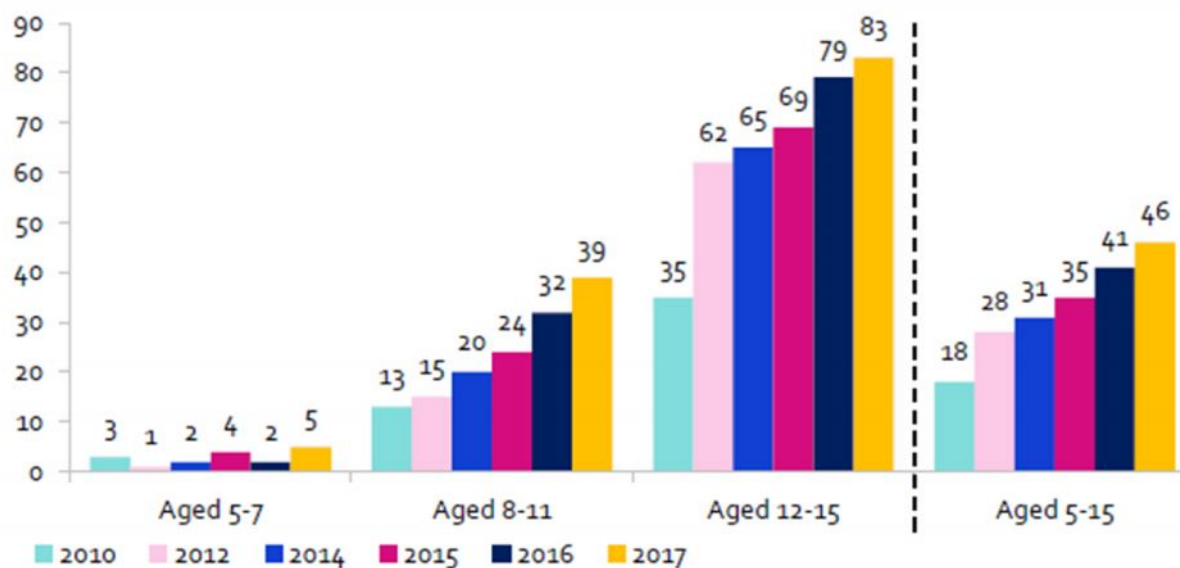
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European Commission
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Networks, Content and Technology
24 September 2018**

How can we prepare today's learners for life and work in an age of rapid digital change?



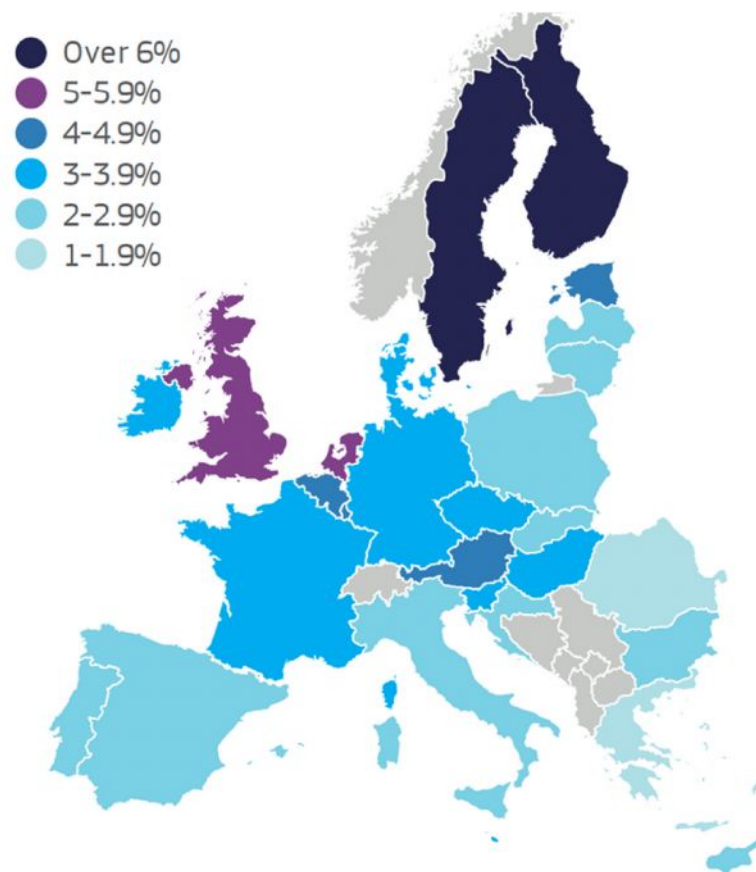
Evolution in ownership of smart phones

Smartphone ownership by age, 2010-2017 (%)



Base: Parents of children aged 3-4 (677 in 2017) and 5-15 (1,388 in 2017).
[Source: Ofcom Children and Parents: Media Use and Attitudes Reports]

Transformation brings opportunities



The untapped potential



Today, **40%** of companies have difficulties finding ICT specialists



There will be **500,000 unfilled vacancies** for ICT professionals **by 2020**

How can we ensure that digital transformation is inclusive?



How can education keep pace?



95% of 16-24 year olds in the EU are regular internet users



Less than half of children are in schools that are highly digitally equipped



20-25% are taught by digitally confident and supportive teachers

Political momentum

WEEKLY MEETING | 14 November 2017 | Strasbourg, France

Towards a European Education Area by 2025



Erasmus+





DIGITAL EDUCATION ACTION PLAN

Priority 1

Making better use of digital technology for teaching and learning



Priority 2

Developing relevant digital competences and skills for the digital transformation



Priority 3

Improving education through better data analysis and foresight



Priority 1: Making better use of digital technology for teaching and learning



Priority 1: Policy challenges



Approximately **18%** of schools in the EU **lack reliable broadband connections**¹.

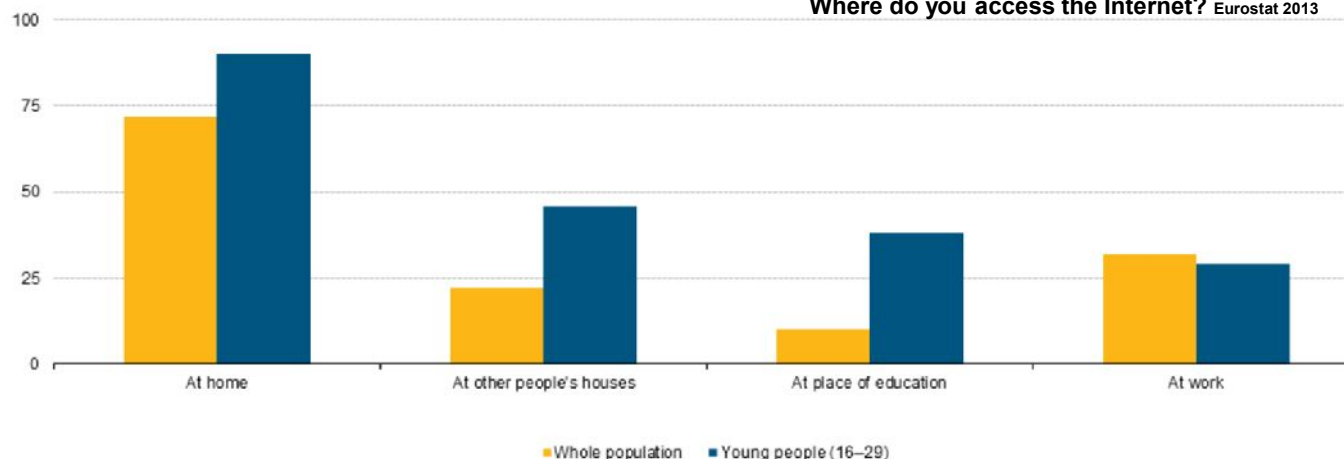


Integrating digital technologies in a purposeful way is a challenge for school education. Actions that focus solely on providing infrastructure or devices yield mixed results. To improve how students learn, technology should be used in a holistic way, with a clear pedagogical focus and a whole school approach.

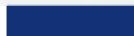


While more than **72%** of people use the internet at home and **32%** at work, only **10%** report having used the internet at school or another place of education in the previous year².

Where do you access the Internet? Eurostat 2013



Priority 2: Developing relevant digital skills and competences for the digital transformation



Priority 2: Policy challenges



1 out of **5** young people does not have basic digital skills.



90% of all jobs require at least basic digital skills today.

Demand for ICT specialists exceeds supply. **40%** of companies looking for ICT specialists report that they cannot fill their vacancies for ICT specialists.

Only **15%** of tech sector **workers in the EU are women**. Participation at senior management and board level is even lower.

51% of European citizens do not feel informed about how to deal with cyber threats.



Priority 3: Improving education with better data and foresight

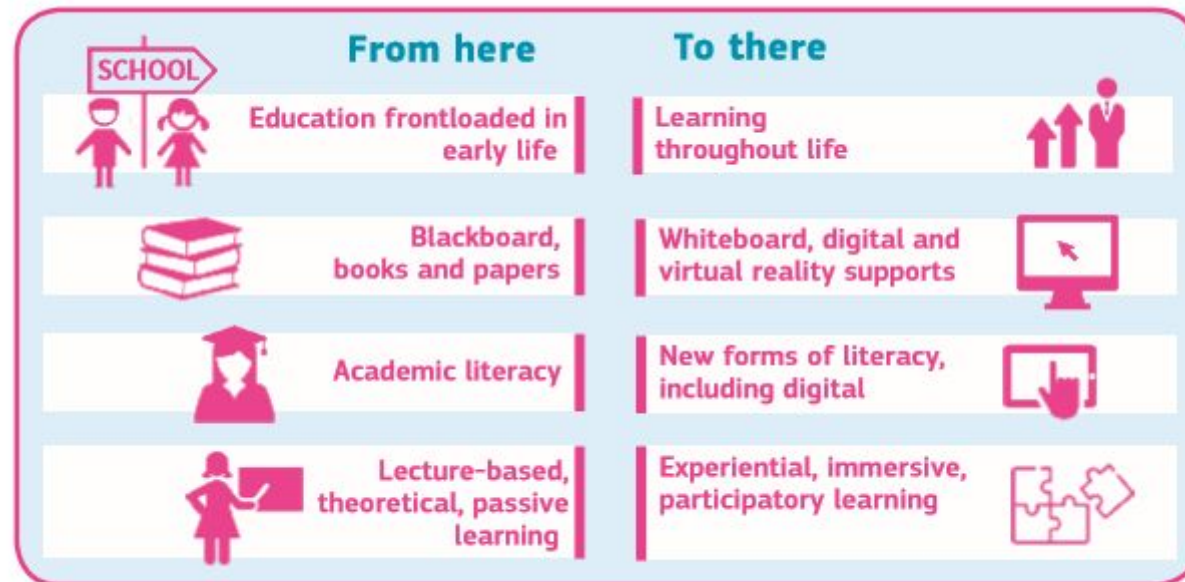


Priority 3: Policy challenges

Data is currently under-exploited for educational purposes

User-generated data is already available and can help identify needs

Foresight might allow education to anticipate change



European Political Strategy Centre



Priority 1

Making better use of digital technology for teaching and learning



Priority 2

Developing relevant digital competences and skills for the digital transformation



Priority 3

Improving education through better data analysis and foresight

Action 1 - Wifi 4 Schools

Action 2 - SELFIE self-reflection tool & mentoring scheme for schools

Action 3 - Digitally-Signed Qualifications

Action 4 - Higher Education Hub

Action 5 - Open Science Skills

Action 6 - EU Code Week in schools

Action 7 - Cybersecurity in Education

Action 8 - Training in digital and entrepreneurial skills for girls

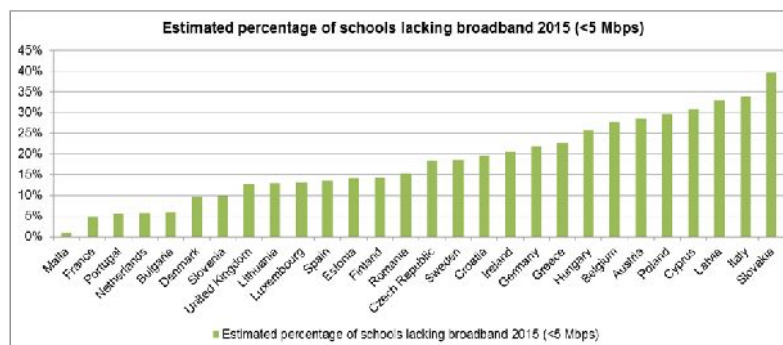
Action 9 - Studies on ICT in education

Action 10 - Artificial Intelligence and analytics

Action 11 - Strategic foresight



ACTION 1: Support the roll-out of high capacity **broadband in schools**

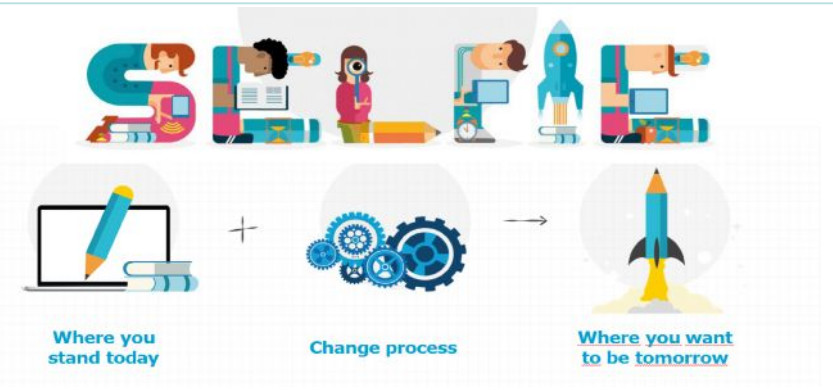


- Raising awareness of the benefits for schools and available funding opportunities
- Supporting connectivity i.e. through a voucher scheme focusing on disadvantaged areas

ACTION 2: Scaling the SELFIE self-assessment tool to one million teachers, trainers and learners



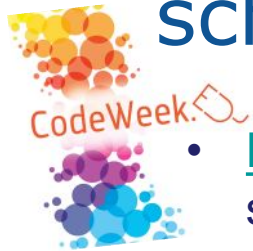
Self-assessment tool
on digital readiness
of schools



→ Upscale SELFIE to reach one million teachers, trainers and learners

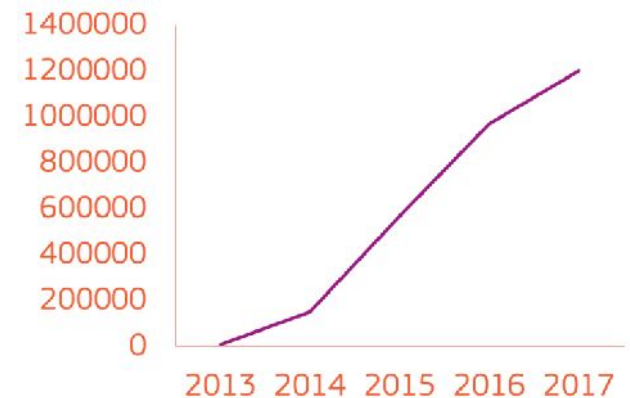
→ Promote a mentoring scheme to support school in the uptake of SELFIE

ACTION 6: Bring EU Code Week to schools in Europe

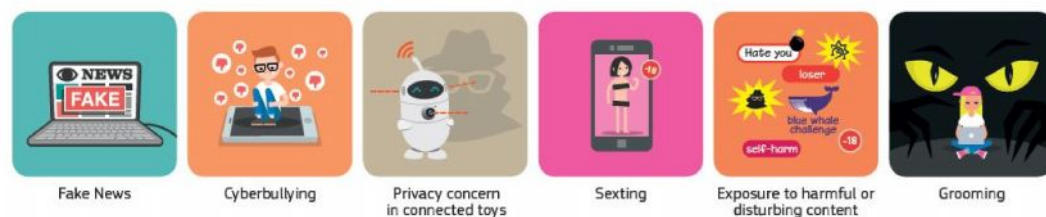


- [EU Code Week](#) celebrates creativity, problem solving and collaboration through coding and other tech activities.
- EU Code Week offers participants the possibility to make their first steps as digital creators.
- Teachers can access free [professional development opportunities](#) and teaching [resources](#).
- Activity organisers pin their [activity on the map](#) by registering online.
- Teachers can build network of activities, to engage as many students as possible, and earn a Certificate of Excellence through the [CodeWeek4All challenge](#).

Participation – from 10,000 to 1.2 million



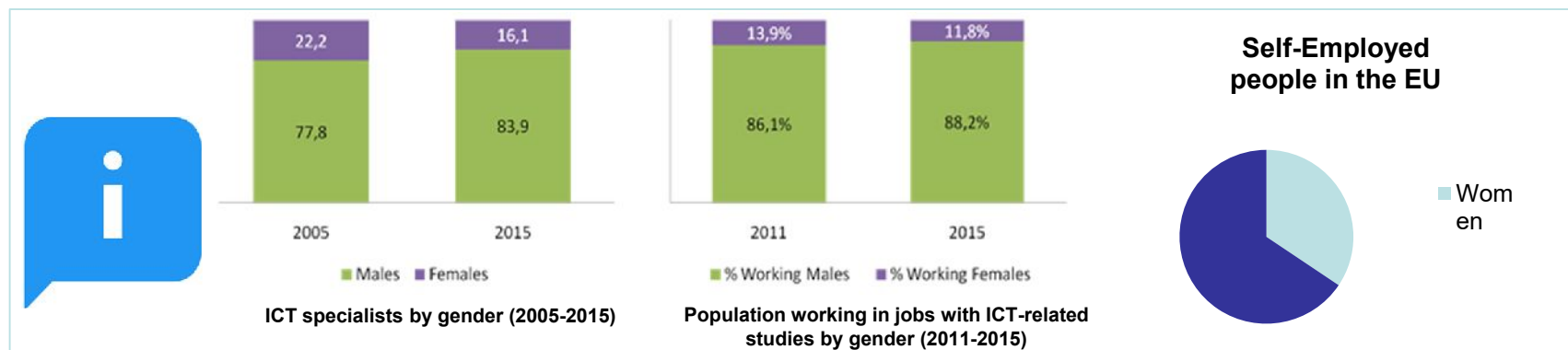
ACTION 7: Tackle the **challenges** of digital transformation



→ *Launching an EU-wide awareness-raising campaign to foster online safety, cyber hygiene and media literacy*

→ *Launching a cyber-security teaching initiative building on the Digital Competence Framework for Citizens*

ACTION 8: Programme to support digital and entrepreneurial competences of female students

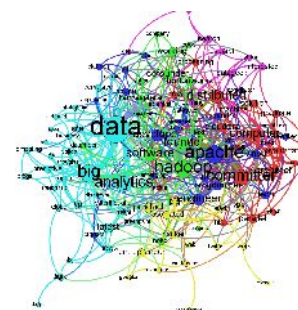


- Support measures to decrease the gender gap in technology and entrepreneurial sectors
- Equip girls with digital skills and inspirational models

ACTION 10: Artificial intelligence and learning analytics **pilot** actions



Use of data
for improving education



→ Make better use of the huge amount of data already available

→ Develop relevant toolkit and guidance for Member States to use data for education



Thank you

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#EUDigitalEducation

