European Schoolnet is a network of 32 Ministries of Education (MoEs) from across Europe, leading educational innovation at European level. European Schoolnet (EUN) operates key European services in the area of innovation in education on behalf of member Ministries of Education, the European Commission and industry partners. European Schoolnet articulates three strategic priorities to achieve its goals:

● Providing concrete evidence and data about innovation in education on which to base policy recommendations;
● Supporting schools and teachers in their teaching practices;
● Developing and sustaining a network of schools engaged in innovative teaching and learning approaches.
We are glad to present European Schoolnet’s Annual Report for 2020. This was of course an exceptional year. The COVID-19 pandemic brought an unprecedented crisis to school systems across Europe and beyond. The spread of COVID-19 arguably led to more technology-supported change in schools in that period than in the past 20 years. Digital technologies became a fundamental necessity in providing much-needed continuity and support for teachers, learners and families in ways that would have been unimaginable, if not impossible, only a few years ago.

Ministries of Education came together to exchange information about the measures decided in each country, the use of digital tools for remote teaching and learning, discuss about the challenges faced for the school community and later on exchange practices on how to organise school attendance safely and efficiently by using alternative teaching and learning methods. At the same time European Schoolnet launched an online platform with up-to-date information about school systems’ status in European countries as well as measures in place. The COVID-19 crisis may provide a wake-up call to schools which helps them (and parents) recognise that, in more normal circumstances, they are not exploiting the extent to which innovative pedagogical practices involving ICT (e.g., flipped classroom, MOOCs and other forms of remote teaching) can improve learning.

Under the unprecedented circumstances that the pandemic created, European Schoolnet strove to continue working via its projects and working groups on the priorities identified for 2020. European Schoolnet continued supporting teachers’ professional development and innovative pedagogies; targeting initial teacher education, where working with providers in this area is a route for mainstreaming successful innovation and preparing future teachers to be fully prepared for the classrooms of today and tomorrow when they enter the profession; defining the most appropriate innovative ecosystems and approaches that support large-scale deployment and adoption of the wide variety of successful innovations; moving towards a whole-school approach where issues such as leadership strategies, digital citizenship education, STEM education, development of flexible learning spaces and innovative pedagogies are themes to be discussed and plans developed at whole-school level; supporting new learning ecosystems with an increasing need to link formal, non-formal and informal learning opportunities that take place in and out of school.

When the situation becomes “normal” again we may be faced with the following challenge: how to manage the wish of teachers to continue leveraging technology and the possibility that the school/system is making them go back to the old ways? In addition, a second challenge will be not to let teachers reject educational technologies due to the constraints and any negative experiences during the COVID-19 crisis.

If we want to change the normal schooling model, we have to demonstrate the added value of educational technologies. In that context, it will be essential to identify those new learning activities where it is important to use educational technologies. It is part of the remit of our network to identify, federate, share and analyse all the digital innovative pedagogies developed.

Marc Durando
Executive Director of European Schoolnet
Our mission is to support education stakeholders in Europe in the digital transformation of education processes. We do this by identifying and testing promising innovative teaching and learning practices, sharing evidence about their impact and supporting their mainstreaming so as to align with 21st-century standards for the education of all students. Digital technologies are a significant focus of European Schoolnet’s work because of the critical role they play in designing and implementing future classroom scenarios and in supporting new forms of learning both in and out of school. European Schoolnet continues to position itself as a key organisation in Europe concerned with the development and demonstration of scenarios for the school of the future.
2020 in Numbers

- **44** Projects
- **12** Major events
- **50** Public webinars
- **16** New Massive Open Online Courses (MOOCs)
- **31k+** MOOC registrations
- **21** Publications
- **115** Videos
- **128k+** Social media interactions
- **26k+** Facebook page likes
- **+25k** Twitter followers
Response to COVID-19

Marc Durando
Executive Director of European Schoolnet

The crisis generated by the spread of COVID-19 has arguably, due to necessity rather than choice, led to more technology-supported changes in schools in a few weeks than in the past 20 years. Throughout Europe, our Ministries of Education have rapidly put in place measures linked to the closure of schools and launched a range of emergency remote teaching initiatives to support school leaders, teachers, parents and of course young people in this exceptional period. Our network is supporting our ministries, as well as the school community in that context. For the time being, many education stakeholders have joined forces to respond to respond with astonishing speed to COVID-19, but undoubtedly, school systems will never be the same again after this crisis.

Two main actions have been initiated at the level of European Schoolnet:

- Providing to our network of Ministries of Education a platform for exchange and organising webinars to support exchange between ministries.
- Supporting school leaders, teachers, and the whole school community as regards immediate urgent needs, by leveraging all our various projects, such as eTwinning, Scientix, Better Internet for Kids (BIK), Future Classroom Lab (FCL).

For its part, European Schoolnet moved quickly to enable member ministries to share experiences and challenges. A Covid-19 work programme was put in place as of March 2020.

Building on the recommendation of Ministries during an online round table, European Schoolnet:

1. Launched a series of monthly webinars.

Those webinars targeted policy-makers, researchers, experts and sometimes practitioners, depending on the topic. They focused on challenges and opportunities of remote teaching (April 2020), gradual reopening of schools before the end of the school year (April 2020), assessment in times of

- Launched an informative public and private website informing about the status and measures in place of education systems across Europe.
- Identified a range of resources and tools to support collaboration, professional development and online safety for the education community as well as raise awareness on the challenges of the circumstances for policy-makers.

Leveraged, in full consultation with the Commission, the activities offered by some EC-funded initiatives and replaced face-to-face activities with online alternatives.

As the school community became increasingly reliant on digital technology, everyone was confronted by the many opportunities it provides but also the online risks. A COVID-19 mini-campaign was therefore launched on the Better Internet for Kids portal and social media from March 2020 onwards, to showcase useful resources for staying safe online and to position the European network of Safer Internet Centres as a key source of localised support and advice for children, young people, families and educators during these challenging times. Topics covered included wellbeing during lockdown, remote emergency teaching and learning, sources of positive online content and protecting online privacy, along with guidance on minimising risks from fake news, disinformation, scams and similar.

Within BIK, an Insafe INHOPE Training meeting (June 2020), a joint Insafe INHOPE Training meeting, the 2020 edition of the Safer Internet Forum and the corresponding BIK Youth Panel (also November 2020) were all organised online to the great satisfaction of the stakeholders involved. In fact, due to their online nature, these meetings and events were able to draw an all-time high number of participants from across and beyond Europe.

Meanwhile, a co-design workshop on age-appropriate design with industry, which was planned under the BIK Youth Pledge initiative, was reshaped into a set of decentralised industry-led activities, which helped to make this activity line more meaningful for both companies and young people. Similarly, for CO:RE and ySKILLS, the project teams had to be creative to transform a range of face-to-face consultations with young people and teachers into an online format. While this surely challenged the recruitment process, also because of other priorities such as the ongoing adaptation within schools to emergency remote teaching, the project teams were able to find creative solutions to ensure successful delivery.

eTwinning supported teachers as early as from February when the first schools started closing. The group “eTwinning@home” was established and in a few days more than 10,000 eTwinners were already sharing practice and ideas on how to address emergency remote teaching. The platform has been used as a virtual classroom by thousands of teachers in “intra-school projects”, but at the same time the usual activities continued with even more engagement.

For the first time too, the eTwinning Annual Conference took place online on 22-24 October under the theme “Classrooms in action – addressing climate change with eTwinning”. The event hosted more than 600 participants and run more than 40 online workshops.

We have learned a lot from it, including how important the sense of community really is. Since the beginning of the pandemic eTwinners have been better prepared to go online and more used to helping, inspiring and lifting each other’s spirits.”

Speaker Mariya Gabriel European Commissioner for Innovation, Research, Culture, Education and Youth

School Education Gateway highlighted information and resources about online and distance learning with two surveys addressed to the topic, on distance learning and the return to school experience. Teacher Academy adapted its new courses to support the new reality of most teachers.

In the European Schoolnet Academy MOOCs, the course coordinators and moderators were encouraged to explicitly address the impact of the health crisis on schools. The Future Classroom Lab face-to-face courses were cancelled but instead a reinforced offer of webinars and an online “learning community” was introduced.

Many projects including Scientix, STE(A)M IT, Europeana, NBS and Aerospace in Class, to name a few, transformed workshops to online events and reinforced communication with teachers and other stakeholders. The iLearning Scenarios created within these projects were adapted to distance learning and tried out with students across Europe.

With the support of Scientix and Amgen Teach, European Schoolnet launched a comprehensive international survey on teachers’ practices and use of educational technologies during the COVID-19 pandemic. The survey, addressed to teachers in primary and secondary education (students aged 3 to 19), was available in 25 languages. The study collected information on the educational technologies that teachers used in the weeks that followed the outbreak of the COVID-19 pandemic, the problems they encountered, the solutions they adopted and recommendations they may wish to share. The answers to this survey will help shape future actions to support teachers better and will be made public in 2021.
Digital Citizenship

Safer Internet Day

2020 edition celebrated in more than 170 countries worldwide

#SID2020 and #SaferInternetDay hashtags trended across the globe

eSafety Label

For a safer school

Since 2012, 3.2k+ labels have been awarded in schools

669 labels were awarded in 2020

62 countries

SELMA

Toolkit available in 7 languages:

English, Danish, German, Greek, Finnish, Polish and Portuguese

WHY IS DIGITAL CITIZENSHIP IMPORTANT?

The digital society places an increasing range of expectations and responsibilities on education and its major actors, both at systemic and at school level.

While digital technology can be an enabler in many positive ways, COVID-19 has put the spotlight on a persistent digital gap, in terms of access and skills, which risks leaving behind vulnerable groups on the grounds of sex, disability or socioeconomic or ethnic background.

Nowadays, digital skills and literacy have become an essential part of what it takes to become an active citizen. Public and private stakeholders have a shared responsibility to make it possible for all children and young people to grow up in a digital world where they feel comfortable and confident to play and experiment, exploring and creating a diversity of information and content, developing their personal identities and relationships, uninhibited by any form of online bullying, harassment, misinformation or hate speech.

European Schoolnet continues to invest in a variety of projects and platforms equipping pupils and students with basic skills from an early age, fostering critical thinking and creativity as they grow older, while building towards more advanced digital expertise in an inclusive manner.

The pupils and students of today will drive tomorrow’s future. Through digital citizenship we empower them to become innovative yet responsible agents of change.

OUR WORK TO DATE

European Schoolnet continued driving teachers, schools and pupils to safe and responsible use of digital technology. By running the BIK platform – on behalf of the European Commission – European Schoolnet provided access to child-appropriate and child-safety-related content and resources and coordinated the network of Safer Internet Centres (SICs) in Europe (comprising Insafe awareness raising, helpline and youth participation strands) in collaboration with INHOPE (leading on the hotline strand). Within this context, European Schoolnet continued to maintain and develop the BIK portal as a public Web interface, along with associated mini sites for BIK Youth, Positive Online Content and Safer Internet Day, while animating an internal space catering to the needs of the community of Safer Internet Centres, allowing them to build capacity and share knowledge and expertise in the delivery of national online safety services.

The eSafety Label initiative, which started in 2012, continued to support schools in shaping a culture of safe and responsible use of digital technology amongst pupils, teachers and other school staff. In 2020 the eSafety Label community provided assistance to its stakeholders on aspects ranging from infrastructure to policy and best practice. Meanwhile, the Label further grew as an accreditation tool with a cyclic re-assessment of its members every 18 months.

Regarding online hate speech, the SELMA project provides online resources for teachers and other professionals who wish to educate children and young people about online hate speech. In 2020, the SELMA Toolkit on online hate speech was newly translated into Polish, Portuguese and Finnish. Outreach efforts will continue along these lines with the aim of making SELMA available across EU countries and languages.
European Schoolnet further collaborated with the Interactive Software Federation of Europe (ISFE) to create a new version of the GIS – Games in Schools handbook for teachers – “Using educational games in the classroom: guidelines for successful learning outcomes”. Published in September 2020, the handbook outlines the educational benefits of digital games and supports teachers in using them as educational and motivational resources in their lessons.

Finally, focusing on Entrepreneurship Education and Women’s Entrepreneurship, the EE-WE (Peer-Learning Activities in Entrepreneurship and Women’s Entrepreneurship) project aimed to increase coordination and foster exchange between different actors and countries by peer-learning activities for public administrations and key public and private stakeholders. 2020 efforts included the animation of a dedicated online community space with further collaborative activities currently being designed to gather relevant input for the formulation of policy recommendations and roadmaps promoting entrepreneurship education and female entrepreneurial activities.

**OUR CONTINUOUS WORK**

In 2020 European Schoolnet continued strengthening 21st-century digital skills and competences for teachers and pupils and responsible use of online technologies through several new projects and activities.

Under the Connecting Europe Facility, European Schoolnet, Tremend, DIGITALEUROPE, UKTA, European DIGITAL SME Alliance and Public Libraries 2030 started developing in 2020 – on behalf of the European Commission – the Digital Skills and Jobs Platform (DSJP) to become the key infrastructure for boosting digital skills in Europe and a one-stop shop for anyone interested in digital skills and jobs. Digital skills will be critical for the recovery and growth of Europe. The DSJP will play a strategic role in addressing the growing digital skills gap across different sectors of business and society, such as the shortage of ICT specialists and the need for upskilling/reskilling of EU citizens in digital technologies. The DSJP will become a core resource to support the future skills pillar of the Digital Europe Programme, also playing an important role in delivering the Recovery and Resilience Facility and helping EU Member States bridge the digital skills gap in their countries. The platform will bring together a Digital Skills Community from all across Europe, providing a collaborative space though a community tool for a wide range of organisations to work and grow together. It will empower the National Coalitions to become core contributors by providing an opportunity to cooperate, share resources and improve their visibility and knowledge, animating the connected national infrastructures and supporting them through a dedicated Helpdesk. The DSJP will be open and accessible for everyone interested in digital skills. It will provide free access to high-quality information, training, and support, helping users advance their knowledge, further their career and bring value to their organisation. The DSJP will be launched in March 2021.

The ySkills project aims to establish a better evidence base to understand which skills 12- to 17-year-olds need to use ICT technology responsibly and ethically. European Schoolnet has coordinated a series of interviews with experts to better understand the role of digital skills education in schools and informal learning settings, as well as the digital skills needed to cope with technological transformations in the labour market.

Digital SkillUp is an education initiative with a focus on emerging technologies. It is one of the learning pillars within the Digital Skills and Job Platform ecosystem. The Digital SkillUp initiative (brand name of the European Digital Academy project) is funded by the European Commission and coordinated by European Schoolnet with a consortium of partners representing a large segment of industry and citizens’ organisations in Europe (DIGITALEUROPE, European DIGITAL SME Alliance and Public Libraries 2030) and the Finnish tech company Reaktor, experienced in online learning technologies. The Digital SkillUp initiative aims to make basic knowledge about emerging technologies (such as artificial intelligence, robotics, cybersecurity, blockchain) available and accessible to all citizens and SMEs. Citizens of all ages and
The Children Online: Research and Evidence (CO:RE) project works to create a pan-European knowledge base centralising the latest research, empirical data and policy recommendations on the impact of new technologies on young users. European Schoolnet carried out a few targeted consultations with school leaders, teachers and students on how to make academic research more accessible and user-friendly, while starting to explore opportunities to co-create resources with and for these stakeholders.

Under the School of Social Networks (SOSN) project eduPad and European Schoolnet educate primary school children on how to use social media safely and responsibly by interacting and experimenting with chatbots in a fun, safe and pedagogical online environment. A tool in French and English was created combining an engaging chatbot experience for children with a rich set of education materials and activities for teachers and partners.

In March 2020, the Working Group reached important conclusions as to how digital citizenship policies and strategies can successfully be translated into practice, both at macro and micro levels. Members were able to exchange on recent experiences in terms of policy implementation in the Netherlands, Belgium (Flanders) and Portugal. In addition, the Social Media Literacy for Change project coordinator shared strategy implementation recommendations based on a whole-school perspective.

A second online Working Group meeting took place in September 2020. It incorporated a semi-structured focus group discussion linked to the EU-funded Children Online: Research and Evidence (CO:RE) project, addressing three main overarching themes:

- Children’s engagement with digital technologies
- Digital technologies and education
- Content/design of the CO:RE platform

At the third online meeting the Working Group members shared their know-how on primary school digital citizenship approaches and resources.

## PROJECTS

### Better Internet for Kids

**Better Internet for Kids** (BIK) aims to create a safer and better Internet for children and young people. The project provides a coordination role to the European Network of Safer Internet Centres (SIC) and provides a secure online space within the core service platform to support their collaboration and knowledge sharing.

### eSafety Label

The eSafety Label (eSL) is a Europe-wide accreditation and support service for schools. eSL assists schools in introducing the safe use of online technology as part of their teaching and learning experience. Schools can review their own eSafety infrastructure, policy and practices against national and international standards.

### Games in Schools

The Games in Schools (GIS) project explores the opportunities and challenges offered by integrating games into teaching and learning.

### SELMA

The SELMA Toolkit offers educational resources to help us tackle the growing issue of online hate speech. These include over 100 customisable resources for professionals working with children and teens.
**The School of Social Networks**

The School of Social Networks teaches primary school children how to use social media safely and responsibly. The tool implemented via the project lets them interact and experiment with chatbots in a fun, safe and pedagogical online environment.

**ySKILLS**

**ySKILLS** (Youth Skills) is a large international research project launched to ensure the impact of the digital environment on children and youth remains a positive one. The project aims to uncover which skills young people in a digital society need to thrive in terms of wellbeing, education and social life.

**Digital SkillUp**

**digital sk://up**

Digital SkillUp is an educational initiative with a focus on emerging technologies aiming to make basic knowledge about emerging technologies available and accessible to citizens and SMEs.

**EE-WE**

The EE-WE (Peer-Learning Activities in Entrepreneurship Education and in Women Entrepreneurship) project fosters the creation and improvement of strategies supporting women entrepreneurs and entrepreneurship education. It facilitates information sharing across countries between entrepreneurship policy stakeholders such as public administrations and key public and private stakeholders.

**Digital Skills and Jobs Platform (DSJP)**

The core objective of the project is to develop, launch, and actively populate with content the DSJP – a one-stop-shop for information on digital skills and an active stakeholder community. The platform will provide free access to high-quality information, training, and support, helping users advance their knowledge, further their career and bring value to their organisation.
Sustainability emerged as a way to address global challenges ‘without leaving anyone behind’. Nevertheless, sustainability is hard to implement. At the individual level, education can help, as recognised at the international level. This paper looks at sustainability for education, and vice versa. This interplay can exist without intervening in the national curricula, by focusing on student-centred pedagogies and the role of teachers. Three projects show how, through learning scenarios, massive online open courses and competitions, teachers can support sustainability education.

Organised on 2 October, the STE(A)M IT 2nd Co-Creation Workshop gathered 60 participants, including industry representatives (Airbus Foundation, GSMA, SissaMedia Lab, Texas Instruments, Transport Malta and LEGO Education), Ministries of Education, experts in STEM education, researchers and teachers. Together, the participants discussed and exchanged on the status and development of the STE(A)M Integrated Framework and the enrichments of its various components.

On 17 November, the Nature-Based Solutions (NBS) pilot study organised an online Workshop for Ministries of Education. 70 participants attended including representatives from 19 Ministries of Education, as well as Scientix National Contact Point representatives (including Universities, STEM organisations and Teacher Training organisations) and NBS Pilot teachers. Participants exchanged on the role of NBS in education, and that of education for NBS and sustainability.

Paper: Sustainability in Formal Education: Ways to Integrate It Now

Major Publications

- Sustainability in Formal Education: Ways to Integrate It Now
- STE(A)M IT Integrated STEM Teaching State of Play
- Nature-Based Solutions in education: Validation report
- Review of Existing Educational Materials on Climate Change and Sustainability

Sustainability emerged as a way to address global challenges ‘without leaving anyone behind’. Nevertheless, sustainability is hard to implement. At the individual level, education can help, as recognised at the international level. This paper looks at sustainability for education, and vice versa. This interplay can exist without intervening in the national curricula, by focusing on student-centred pedagogies and the role of teachers. Three projects show how, through learning scenarios, massive online open courses and competitions, teachers can support sustainability education.”
WHY IS STEM EDUCATION IMPORTANT?

The lack of young people choosing STEM studies and careers continues to be a major challenge facing Europe. Education can play an important role in partnership with business and other stakeholders to help increase interest in STEM studies and occupations. The need to foster STEM talent in young people so they can become the much-needed STEM professionals of tomorrow continues to be a top priority for European Schoolnet. Furthermore, STEM disciplines continue to be taught in an isolated way. Initiatives that promote interdisciplinary teaching, connected to real life challenges (like sustainability or research), collaboration and whole-school approaches in STEM education are a priority for the coming years.

OUR WORK SO FAR

In 2020 the work on STEM education was split into five strategic areas:

- **STEM subjects as a whole** – looking at STEM subjects as a whole, we continued to support the STEM education community through: Scientix, the community of Science Education in Europe, which developed professional development activities (including MOOCs and workshops), campaigns (with the 2020 STEM Discovery Campaign reaching almost 90,000 participants in spite of the COVID-19 school shutdowns) and dissemination actions; the STEM Alliance project, supported by 14 major industry and private partners, aiming at strengthening links between STEM education and careers; the STE(A)M IT project looking into integrated STEM teaching; or the STEM School Label, with more and more schools getting their STEM strategies developed and recognised.

- **Exploratory projects** – addressing different topics like Space Education via projects like Space EU or STIM, citizen science with BRITEC or Inquiry-Based Science Education (IBSE) in Life Sciences with Amgen Teach.

- **Pilot projects** – looking into how to integrate different topics in education enhancing the curricula through the projects Three Rs on Animal Research, Nature-Based Solutions, Bioeconomy, Augmented Reality and Aerospace.

- **Emerging technologies** – identifying, selecting and accelerating the most disruptive EdTech solutions through the Impact EdTech project.

- **Green projects** – focusing on sustainability related issues like Oceans through the EU4Ocean Coalition for Ocean Literacy project or tree planting as nature-based solution in the LifeTerra project.

- **Priority 2.** The limited information on STEM careers.

- **Priority 3.** Results from projects presented by teachers and teacher collaboration as a way of sharing results with policy-makers and among themselves.

- **Priority 4.** Getting leading schools to work together and share expertise.

- **Priority 5.** Supporting exchanges in the working group.

- **Priority 6.** Scientix should support the federation or cohesion (dissemination) of national initiatives.

- **Priority 7.** Ways to make research results more accessible to teachers.

- **Priority 8.** How to mainstream innovative practices, validation and piloting from different initiatives.

- **Priority 9.** Integrated STEM teaching and learning framework with a special focus on 1) transversal themes; 2) secondary education and VET; 3) addressing pre-service and initial teacher training; 4) whole school as a learning ecosystem.

During the meeting of June 2020, the MoE STEM representatives agreed not to add any further priorities for the time being.
PROJECTS

Aerospace in Class

The Aerospace in Class project aims to integrate STEM resources (Learning Scenarios) from the Airbus Foundation Discovery Space in classes for 8- to 12-year-old students.

Amgen Teach

Amgen Teach provides secondary life science teachers in Europe with meaningful professional development opportunities through a new pilot science education programme.

ARETE

The ARETE project aims to support the pan-European interactive technologies effort both in industry and academia, through multi-user interactions within AR technologies evaluated in education in both professional and private contexts.

BRITEC

BRITEC proposes introducing research into classrooms through Citizen Science activities, co-designed between schools and research institutions, initially in the partner countries and with the long-term view of massive uptake in Europe and beyond.

Eurostat Videos

Eurostat has produced short tutorial videos accompanied by learning materials (such as exercises, student toolkits for the classroom, etc.), targeted specifically at teachers, on how to use European official statistics in the classroom. EUN supported providing advice and preparing a communication campaign.

IMPACT EdTech

IMPACT EdTech establishes a start-up incubator-accelerator to help European digital education innovators to bring their digital learning solutions into the market, focusing on those solutions that can contribute to extend personalised and inclusive educational models that support the development of the skills that are relevant in today’s world. It is important to follow and support the EdTech sector to help break the barriers to education and enhance learning experiences in a new era of human-centred digital education.

Make it Open

Make it Open brings the inquiry-based approaches of science education to meet the expansive philosophy and creative classroom approaches of the maker movement in an accessible and actionable framework.

EU for Ocean (OL4ALL)

Ocean Literacy aims at supporting the development of a European network of Blue Schools that will contribute to the acquisition of the necessary ocean knowledge, skills and competences – from primary, lower and upper secondary, technical and vocational schools.

Scientix 4

Scientix 4, the Science Education Community in Europe that promotes Inquiry-Based Science Education (IBSE) and other initiatives at national level, will ensure the continuation and adaptation of Scientix 3 activities and will contribute to the development of national strategies for a wide update and dissemination of IBSE and STEM in society.

SOS-ACT

The SOS-ACT project aims to prepare innovative educational programmes to standardise the STEM and Coding practices which currently vary from region to region. These programmes will define the content, duration, participants and activities of the training.

STE(A)M IT

STE(A)M IT – An interdisciplinary STEM approach connected to everything around us will produce the first European integrated STE(A)M framework.

Three Rs Pilot [Concluded]

The Three Rs pilot created learning activities for secondary school to introduce the principles of the Three Rs: the Replacement, Reduction and Refinement of animal experiments. Students will develop their critical thinking and science literacy skills by exploring topics such as ethics in science, how the European Union is protecting the welfare of laboratory animals and what high-tech non-animal tools are available as alternatives.

The STEM Alliance – inGenious Education and Industry, brings together industries, Ministries of Education and education stakeholders to promote Science, Technology, Engineering and Mathematics (STEM) education and careers among young Europeans and address anticipated future skills gaps within the European Union.
BLOOM aimed to establish open and informed dialogues, co-created by European citizens, civil society, bioeconomy innovation networks, local research centres, business and industry stakeholders and various levels of government including the European Commission.

NBS – Phase 1 [Concluded]

Building on scientific evidence and on experiences from Nature-based Solutions (NBS) demonstration projects in cities, the educational pilot study exploits recent research results to develop innovative educational programmes and resources to raise awareness of Nature-Based Solutions (NBS) and their benefits among children, young people and families.

spaceEU [Concluded]

spaceEU promoted partnerships and activities between the education community, families and the space sector with the main goal of attracting students to space subjects and space-related careers and guiding them towards studies in STEM fields.

STEM School Label [Concluded]

The project gave recognition at the national and European level to schools engaged in promoting STEM activities by providing them with a quality European-wide accreditation called the STEM School Label. The label supports other schools engaging in a similar process via the development of an online ecosystem. The STEM School Label will continue from 2021 under Scientix.

TIWI [Concluded]

The Teaching ICT with Inquiry (TIWI) project aimed to provide teachers with tools and skills in order to train them in digital literacy with the help of an inquiry-based approach to teach coding and motivate their students to choose ICT- and STEM-related fields as a possible future career.
Evidence for Innovation

WHY IS EVIDENCE FOR INNOVATION IMPORTANT?

Today’s educational issues and solutions are complex. The need to revisit curricula, competence frameworks, learning environments, and governance is immense. To face such challenges, European Schoolnet aims at providing and brokering evidence from research, policy and practice in the area of innovation and digital. Evidence from research is crucial for policy-making to get the best possible understanding of reality, but not enough. It must be complemented by evidence from policy to understand constraints and stakeholders’ interplay, and by evidence from practice to benefit from daily experience, feed-back and knowledge.

Particularly, we collect and analyse data through pilot and experimental projects, policy analysis and second-level analysis of data (such as TALIS, ICILS and other international surveys). By doing so, European Schoolnet intends to inform its network at European level in a grounded and transparent manner about successful practices and practices that require adaptation and improvement.

OUR WORK SO FAR

TeachUP is a policy experimentation concluded in 2020 which tested an innovative instructional design for online courses, involving personalised support to participants to understand how such support helps to promote active participation in online courses and improve retention rates, which it did by up to 10 percentage points. TeachUP involved 4,000 teachers and student teachers in ten countries. The experimentation results are acutely relevant in the context of the hybrid and remote teaching experienced in 2020.

The Learning Leadership for Change (L2C) project came to an end in 2020. It aimed to support shared leadership approaches in schools, fostering a new culture in which teachers, students and potentially parents willingly take responsibility for leadership in the school community. The project encouraged effective networking through capacity-building (self-assessment, training and sharing of best practices) within three areas: STEM education, innovative use of ICT in teaching and digital citizenship.

5 new reports

1. How to Improve Completion and Assessment in Scalable Online Courses for Teachers
   Languages: DE, EL, ES, ET, HU, LT, PT, SK, TR

2. Implementing Personalised Support In Scalable Online Courses

3. Peer Versus Expert Assessment — How To Make Assessment In Online Teacher Training Work

4. TeachUP Evaluation Report

5. Evidence from the TeachUP Experimentation
   Languages: DE, EL, ES, ET, HU, LT, PT, SK, TR

Animation video

Results of the TeachUP Policy Experimentation

Snapshot from video “Results of the TeachUP Policy Experimentation”
Our Continuous Work

Assess@Learning (A@L) is a current policy experimentation promoting digital formative assessment practices via a toolkit supporting teachers, school heads, students and parents. In 2020, A@L enriched the toolkit and adapted it to the needs of educators operating in (post-) COVID-19 contexts. The A@L randomised-controlled trials will start in October 2021 in five countries (Estonia, Finland, Greece, Portugal, Spain).

In parallel, under the Structural Reform Support Programme (SRSP), European Schoolnet coordinates in cooperation with the DG Reform and the Greek Ministry of Education, an assessment of the use of digital technology in Greek school education; the development of a roadmap and action plan to improve educational outcomes in Greek school education; and interactive online courses (MOOCs) on innovative digital pedagogies and competences.

Committees and Working Groups

ICT@School

The ICT@School indicators Working Group (WG) includes 16 participating countries: Austria, Belgium (both Flemish- and French-speaking communities), Denmark, Estonia, Finland, France, Ireland, Italy, Malta, the Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Turkey.

In 2020, the ICT@School WG continued the regular exchanges of information about findings of country-level surveys about digital education with more in-depth information from a survey run in Croatia about mentors’ support to distance learning during the COVID-19 pandemic. The WG also contracted the Foundation Bruno Kessler – Research Institute for the Evaluation of Public Policies (FBK-IRVAPP) based in Italy to produce and discuss a second-level analysis of 2018 TALIS data about continuous professional development, professional capabilities and innovative teaching practices.

Projects

TeachUP

TeachUP was a policy experimentation which tests two different instructional design approaches in Initial Teacher Education and Continuous Professional Development by delivering courses on new teacher competences in four areas: teacher collaboration, personalised learning, formative assessment and creative thinking.

Learning Leadership for Change

The aim of the Learning Leadership for Change project (L2C) is to foster shared school leadership and effective networking through capacity-building (self-assessment, training and sharing of best practices) within three key areas: STEM education, innovative use of ICT in teaching and digital citizenship. L2C.EUN.org

SRSP Project (Greece and Belgium)

In collaboration with the Flemish Department of Education and Training the SRSP project aims to develop and pilot an evidence-informed framework and guidelines for implementation of teacher induction in Flemish schools. Similarly, European Schoolnet coordinates, in cooperation with the DG Reform and the Greek Ministry of Education, an assessment of the use of digital technology in Greek schools.

“European Schoolnet aims at providing and brokering evidence from research, policy and practice in the area of innovation and digital.”
WHY IS PROFESSIONAL DEVELOPMENT IMPORTANT?

The teaching profession was one of those that faced unprecedented challenges in 2020 due to the school closures and "emergency remote teaching" (ERT) put in place. Such exceptional circumstances allowed no time for preparation. It became evident that the teachers and schools who had done their "homework" were better off: appropriate equipment, tools and infrastructure combined with staff with sufficient digital skills and confidence to move their teaching online made learning possible even during long periods of complete school closures.

European Schoolnet has always aimed to provide high-quality, versatile Continuous Professional Development (CPD) to teachers and all school staff across Europe. While in previous years the CPD offer was delivered both face-to-face and online, in 2020 online training became the only option. All active projects reacted to the situation quickly by amplifying and/or transforming their CPD activities, resulting in a vast offer of online courses and webinars (and anything in between). European Schoolnet supported teachers in this difficult period, helping them to adapt their skills for distance teaching and discovering and trying out new ways of teaching.
Teachers’ professional development and capacity-building are integral parts of the majority of European Schoolnet’s projects. A large part of the CPD activities is channelled through two flagship initiatives: Future Classroom Lab and European Schoolnet Academy.

The Future Classroom Lab (FCL) is an inspirational learning environment in Brussels, that allows stakeholders (policy and decision-makers, teacher trainers, EdTech providers and school staff) to explore innovative approaches and technologies and engage in discussion on ICT, pedagogy and learning space design. FCL is supported by over 30 industry partners and by the network of Future Classroom Lead Ambassadors representing 15 countries.

The FCL worked hard to support teachers in the sudden switch to distance teaching and learning. The “FCL Talks” webinar series addressed the topic “Teaching in time of Corona”. Three webinars were organised with industry partners Microsoft, ESRI and Dassault Systèmes on the use of educational technology to support remote/blended teaching and learning. A new type of online learning event was introduced: “Active learning in the hybrid classroom” was a short learning activity including both synchronous and asynchronous sessions over the course of four days (as an alternative to webinars and MOOCs). Additionally, the network of learning labs was rebranded as “Future Classroom Lab Network of Innovative Learning Labs and Spaces” and a new membership label was designed and distributed. The list and map of members was updated, including at the end of the year over 100 labs.

The European Schoolnet Academy (EUNA) offers massive open online courses (MOOCs) to school staff and educational professionals on innovative pedagogical concepts, whole-school strategies, and tools and resources to enhance everyone’s teaching practice. In total, 16 MOOCs were offered in 2020. The courses covered several topics including leadership for change, animal use in science, space exploration and astronomy, coding, integrated STEM teaching, digital skills and cultural heritage.

EUN continued working with national and regional entities (Spanish regions and the Portuguese CCPFC) to enable teachers to have their EUN Academy certificates formally recognised.

Some new initiatives were introduced too. The “Europeana MOOC” was organised in four languages in addition to English. The “Designing for Personalisation and Inclusion with Technologies (DEPIT) course” was the first MOOC hosted in EUNA by an external provider.

Finally, the EUN Academy Blog was launched in March 2020 providing useful resources, tools and ideas for remote teaching and learning scenarios drawn from Academy courses, as well as the Academy’s experiences in designing online learning.

Other relevant work done in CPD includes the Europeana Education initiative mainstreaming the use of digital culture in classrooms, across curricula and at a transnational level. In the 2019-2020 academic year, over 2,000 primary and secondary-level teachers from 37 countries created and used learning scenarios, shared their experiences on the Teaching with Europeana Blog and participated in the Europeana Education Competition.

Since 2018, EUN has supported the European Commission in scaling up EU Code Week. The initiative aims to promote coding and digital literacy in schools providing professional development opportunities to educators and engaging activities to students. In 2020, EUN ran two MOOCs as part of the initiative. These courses aimed to introduce the initiative to participants and to foster coding and computational thinking in teaching practice.

EDURegio (Digital Regions for Education) aims to empower schools and teachers in using digital technologies, encouraging them to be active and innovative, according to EU priorities on digital citizenship and skills. In 2020, the project delivered an online course to foster teachers’ confidence and competence in the use of digital technology in education.

The Navigado project focuses on active learning in innovative learning environments. In 2020 the activities included webinars, preparation of an “Active Learning Reference Framework”, creation of an online scenario tool and development of a capacity-building programme for schools.

In November 2020, the Mentoring for School Improvement (MenSI) project was launched with the aim of carrying out a pan-European investigation into how different approaches to mentoring can support the mainstreaming of innovative digital teaching practices in primary and secondary schools. Involving Ministries of Education in six countries, MenSI – funded by the EC’s Horizon 2020 programme – will create a network of 24 Mentor Schools working with some one hundred Mentee Schools. By the end of the project, the network will open up to other schools interested in applying school mentoring approaches to develop innovative pedagogical practice involving digital technologies in teaching and learning.

OUR CONTINUOUS WORK

In November 2020, the Mentoring for School Improvement (MenSI) project was launched with the aim of carrying out a pan-European investigation into how different approaches to mentoring can support the mainstreaming of innovative digital teaching practices in primary and secondary schools. Involving Ministries of Education in six countries, MenSI – funded by the EC’s Horizon 2020 programme – will create a network of 24 Mentor Schools working with some one hundred Mentee Schools. By the end of the project, the network will open up to other schools interested in applying school mentoring approaches to develop innovative pedagogical practice involving digital technologies in teaching and learning.
In summer 2020 LEGO Education® and EUN set up a pilot project to experiment with and champion the effective pedagogical use of LEGO Education® solutions with the active engagement of the FCL network and community. Within the pilot, which will last until 2021, FCL Lead Ambassadors from five countries (Belgium, Denmark, Finland, France and Italy) carry out professional development and training activities using LEGO Education® solutions.

The Designing Future Innovative Learning Spaces (Design-FILS) project aims to use ICT in innovative learning environments, to transfer developing and changing applications to multi-disciplinary fields and to solve scenarios based on real-life problems by following scientific steps in flexible learning environments. The project is funded by Erasmus+ KA2 and is coordinated by the Turkish Ministry of National Education.

EUN in collaboration with the Institut français and ARTE created the European Film Factory platform for film education. Available in eight languages, the platform offers free access to European film to students aged 11-18 and teachers. Under the guidance of EUN a teachers’ focus group created ten educational kits that include in-depth film analysis and ready-to-use lesson plans. A webinar series in eight languages aims to familiarise educators with the platform and its educational value.

### Interactive Classroom Working Group

The Interactive Classroom Working Group brings together seven Ministries of Education (Czech Republic, Ireland, Italy, Luxembourg, Belgium (Flanders), Portugal and Switzerland) to explore common areas of concern, share experiences and address policy challenges related to the integration of a wide range of technologies in classrooms and their impact on teaching and learning. In 2020, the Working Group capitalised on the effort dedicated to Makerspaces in schools and finalised the foreseen publications, including the guidelines for Makerspaces in schools, addressed to school leaders, and 15 case studies from nine different countries.

The results are published on the Future Classroom Lab portal and were presented during a multi-stakeholder event organised in December involving national and European policy-makers, as well as schools who virtually opened their Makerspaces doors to the international audience. The WG has been reflecting on what should be the next focus and has decided to concentrate on digital technologies for interactivity and engagement. Considering the impact that the pandemic has had on teaching and learning, the WG will look at how technology has helped and can help to facilitate engaging digital learning and will provide resources and examples to teachers and heads of schools to better face the opportunities and challenges of a digital age.

### COMMITTEES AND WORKING GROUPS

#### Interactive Classroom Working Group

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### PROJECTS

#### EDURegio project

EDURegio project aims to empower schools and teachers in using digital technologies, encouraging them to be proactive and innovative, and to implement the development of the main EU Commission priorities related to digital citizenship and skills. The project fosters the exchange of good practices among regional professionals and policy-makers.

#### EU Code Week

EU Code Week is a grassroots initiative which aims to bring coding and digital literacy to all schools in a fun and engaging way. The initiative provides to the general public, and in particular to teachers and other educators, resources, virtual spaces for networking, and professional development opportunities, such as online courses and train-the-trainer programmes.

#### Design-FILS

The Design-FILS (Designing Future Innovative Learning Spaces) project will create a training programme for an international group of teacher trainers, with focus on learning environment, use of ICT and innovative pedagogy.

#### Europeana

Europeana empowers the cultural heritage sector in its digital transformation by developing expertise, tools and policies to embrace digital change and encourage partnerships. Europeana facilitates the use of cultural heritage for education, research, creation and recreation.

#### MenSI

The Mentoring for School Improvement (MenSI) project analyses and supports different formats of school-to-school mentoring with the aim of mainstreaming innovative digital teaching practices across schools in Europe.

#### Navigado

The Navigado project aims to support schools and related stakeholders in the transition from a conventional and teacher-centred classroom to teaching practices that promote active learning with the support of innovative learning environments and use of relevant ICT.

#### European Film Factory

European Film Factory is an open platform for film education available in eight languages for students aged 11-18 and teachers across Europe.
School Networking

**SchoolEducationGateway**

- 48 News articles
- 7 Video interviews
- 5 Surveys & Reports
- 26 Teaching materials

**TeacherAcademy**

- 4 New MOOCs
- 9.8k+ Enrolments
- 60% Engagement

- 52% Completion
- 98% Say courses met expectations
- 98% Rated courses as valuable

**eTwinning**

- 132.5k+ New teachers
- 35k New projects
- 2.1k+ eTwinning school labels
- 19k National Quality labels
- 11.3k European Quality labels

**News and Views**

- 48 News articles
- 12 Expert articles
- 12 Practice articles
- 13 Thematic areas

**Prize Ceremony**

- 600+ Participants
- 48 Workshops
- 6k Prize Ceremony viewers

**Annual Conference**

"Classrooms in Action: Addressing Climate Change with eTwinning"

22-24 Oct

"We have learned a lot from it, including how important the sense of community really is. Since the beginning of the pandemic eTwinners have been better prepared to go online and more used to helping, inspiring and lifting each other’s spirits."

Mariya Gabriel
European Commissioner for Innovation, Research, Culture, Education and Youth
WHY IS SCHOOL NETWORKING IMPORTANT?

Networking is about growing together. European Schoolnet empowers individual educators by providing opportunities to meet and collaborate so that thousands of schools can grow and improve. Networking activities provided through European Schoolnet enable educators from different countries and from varied backgrounds to learn from each other, be inspired to tackle new challenges and emulate their most innovative and creative colleagues. Networking allows the whole system to grow: everyone with their own competences, skills, attitudes and qualities can help and support the others.

OUR WORK SO FAR

One of the founding principles of European Schoolnet over 20 years ago was to enable schools and teachers across Europe to become part of an interconnected system, benefiting from the experience of the most innovative schools and nurturing the less advanced ones, for the sake and growth of the whole network. For this reason, since its beginning, European Schoolnet has been involved in pan-European school networking activities which prepared the ground for the development of eTwinning, a European Union initiative, named “The Community for Schools in Europe” and later of eTwinning Plus, an expansion of the network to eight neighbouring countries. In 2020, European Schoolnet continued to provide the Central Support Service for eTwinning. Funded under the Erasmus+ programme, on behalf of the European Commission, eTwinning is a vibrant community that in its 16 years of existence has reached 880,000 teachers working in 210,000 schools. In 2020, despite the pandemic and school closures, 95,000 teachers took part in at least one project, involving more than two million students across the continent.

2020 was Year Six of the School Education Gateway, the European Commission’s platform on school education. The platform helps schools plan their Erasmus+ applications and projects through a catalogue of on-site courses as well as a partner-finding tool. It also provides education professionals with useful information and resources, such as teaching materials, good practices, news articles, surveys and video interviews. Users also benefit from professional development opportunities on the platform’s Teacher Academy, including free online courses and webinars, offering introductions to monthly topics by experts in the field.

OUR CONTINUOUS WORK

Collaboration between schools remains one of the most efficient, cost-effective and sustainable ways of improving teaching and learning at classroom and teacher level. Communities of practice, peer and online learning – all elements offered by European Schoolnet initiatives – are highly effective means of sharing and spreading inspiring innovative practices. For this reason, European Schoolnet will continue to invest in fostering school networks and teacher communities.

PROJECTS

eTwinning

E Twinning, currently available in 36 European countries, promotes school collaboration and teachers’ professional development by providing support, tools and services for schools through a variety of means, including a sophisticated digital platform where school staff can develop projects together and participate in online learning opportunities.

eTwinning Plus

E Twinning Plus is an expansion of the eTwinning network to 8 other neighbouring countries: Armenia, Azerbaijan, Georgia, Moldova, Tunisia, Ukraine, Jordan and Lebanon.

School Education Gateway

The School Education Gateway is a European Commission initiative as part of the Erasmus+ Programme offering a place for all practitioners to engage with European policy and practice in early childhood and school education.

Teacher Academy

The Teacher Academy, by the School Education Gateway, supports teachers to access relevant training opportunities by providing them with a platform to search for, participate in and evaluate training courses available on-site and online across Europe.
In 2020, the European Commission published its communication on achieving the European Education Area by 2025 and its new Digital Education Action Plan (DEAP) 2021-2027 “resetting education and training in the digital age”. European Schoolnet and its network of Ministries of Education welcomes these two major publications which set the European agenda regarding the development of digital education in Europe.

The transformation of education processes for 21st-century teaching and learning in a digitised society is at the centre of the remit of EUN. In its publication in November 2017, “Driving innovation in education: How far we have come and where we are going”, EUN capitalised on the latest research on the development of digital education and its role in shaping tomorrow’s society.

Over the past 20 years, the educational landscape and society in general have changed rapidly, thanks to the development of new technologies. These changes require stakeholders to focus not only on the digital skills of teachers, school leaders and students, but also on supporting citizens in the digital society more holistically.

They increasingly also require policy-makers to develop whole-school approaches to pedagogical innovation and flexible learning environments and to facilitate new ways of incorporating innovative formal, non-formal and informal learning opportunities. It is also vital to train future generations of teachers effectively to work in an increasingly multi-digital working environment where new pedagogies, new ways of working between teachers and among schools and new ways of accessing professional development opportunities are made possible by technological developments.

Nowadays, it is even more of a priority to consolidate, identify and refine effective mechanisms fostering large-scale adoption of the wide range of successful innovations being implemented by the policy-makers, school leaders and practitioners.

EUN’s key strength over the past 20 years has been its ability to act as an effective broker between educational policies and practices. As it continues to work closely with schools on European cooperation projects, EUN remains uniquely placed to provide relevant evidence to its Ministries of Education members that can support informed policy-making and anticipate new challenges and opportunities arising from emerging technological developments.

All these issues related to digital education have become even more pivotal during the COVID-19 crisis, where all our education systems have faced tremendous challenges in the struggle to ensure the continuity of education provision, for example, through emergency remote teaching processes established by the majority of Ministries of Education in Europe. Now, the challenge is to reflect on and apply new models of schooling, as hybrid and blended schooling models are currently emerging linked to the continuation of the COVID-19 crisis and the preparation of a new recovery period.

In that context, with its long tradition in terms of European cooperation in the digital education area, EUN has developed a unique expertise (foresight, methodologies, delivery tools, indicators, etc.) and has a proven track record in how to build a solid cooperative network consisting of EU education ministries, major EdTech providers, educational experts and practitioners that can contribute to this new European digital education agenda.

European Schoolnet and its Ministries of Education have stressed the importance of reinforcing the activities it has already developed as well as strengthening further the cooperation between the European Commission and member states. We believe that, through its various activities, EUN can contribute and support the Commission in the development and implementation of the DEAP.

In parallel, the political priorities defined by the new European Commission, namely innovation in education, science education, climate change (related to education) and the digital skills gap are taken fully into account in the development of future activities.

European Schoolnet looks ahead to growing its shared network and to continuing to improve the future of education, with the help of the European education community which it serves and works alongside.

Marc Durando
Executive Director of European Schoolnet
Our 32 Members

Belgium (FR)  
Ministère de la Fédération Wallonie-Bruxelles, Administration générale de l’Enseignement (AGE)

Belgium (NL)  
Vlaams Ministerie van Onderwijs en Vorming

Bulgaria*  
Ministarstvo Znanosti i obrazovanja

Croatia  
Ministarstvo Znanosti i obrazovanja

Cyprus  
Παιδαγωγικό Ινστιτούτο Κύπρου

Czech Republic  
Dům zahraniční spolupráce (DZS)

Estonia  
Hariduse Infotehnoloogia Sihtasutuse (HITSA)

Finland  
Opetushallitus/Utbildningsstyrelsen

France  
Ministère de l’Éducation nationale et de la Jeunesse

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The Netherlands  
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Instituto Nacional de Tecnologías Educativas y de Formación del Profesorado

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Skolverket

Switzerland  
educa.ch, Institut suisse des médias pour la formation et la culture

Turkey  
Milli Eğitim Bakanlığı Yenilik ve Eğitim Teknolojileri Genel Müdürlüğü

Our 32 Members
Funding

PROJECTS FUNDED BY THE EUROPEAN COMMISSION

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- eTwinning
- eTwinning Plus
- School Education Gateway
- Teacher Academy

Co-funded by the Erasmus+ programme of the European Union
- Assess@Learning
- BRITEC
- EDURegio
- Design-FILS
- eSafety Label
- L2C
- MENTEP
- NOVIGADO
- SOS-ACT
- STE(A)M IT
- STEM School Label
- STIM
- TeachUP
- TiWi

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- CO:RE
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- SpaceEU
- ySKILLS

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- Digital Skills and Jobs Platform
- Europeana DSI 4

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- EU Code Week
- European Entrepreneurship
- Nature-Based Solutions

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- Digital SkillUp

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- Supporting Digital Education in Greece (Phase II)
- Implementing an Effective Induction System for Novice Teachers in Flanders
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