



RESEARCH, INNOVATION & EDUCATION KEY DRIVERS OF THE EU SKILLS AGENDA



To tap into the full potential of knowledge in Europe, we need to strengthen synergies and coherence between the European Research Area and the European Education Area. Europe's skills base is the major driving force in creating an inclusive, prosperous and sustainable society.

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



Research, innovation and **education** go hand in hand in developing **Europe's skill base**, enabling students, researchers and employees to make the most of their potential, new technologies and work organisation practices. They support the lifelong learning approach and generate the advanced knowledge and skills European need to adapt to the fast-changing labour market and address our **big societal challenges**.

The European Research Area and the **European Education Area** are key drivers and enablers for the labour market and societal transitions. They promote innovative and inclusive education for all as well as up- and reskilling of talents across the EU.

RESEARCH, INNOVATION AND EDUCATION PLAY AN IMPORTANT ROLE IN AN AMBITIOUS NEW SKILLS AGENDA

Higher Education Institutions empower people with high-level skills that boost their professional, social and personal development. **Erasmus+** and **Horizon Europe** plays a key role in supporting students, higher education institutions and researchers to reach their full potential.

REACT-EU INSTRUMENT OF NEXT GENERATION EU

EUR 55 billion

for 2020-22. Additional funding for skilling opportunities accompanying the green and digital transitions.

RECOVERY AND RESILIENCE FACILITY

EUR 560 billion

in grants and loans

EUROPEAN UNIVERSITIES WILL BE THE UNIVERSITIES OF THE FUTURE

We need to enable Europeans to cooperate across languages, borders and disciplines to address societal challenges and skills shortages. **European universities are ambitious transnational alliances of higher education institutions** that will pool resources and develop interdisciplinary, skills-focused curricula and promote research and innovation. They will be rolled out under the Erasmus+ and the Horizon Europe programmes (2021-2027).

Research and
Innovation



OTHER PRIORITIES ARE TO

- **Upskill scientists**, by developing open science, entrepreneurship and science management curricula, getting a better understanding of brains circulation and introducing a uniform European Competence Framework for researchers
- **Introduce Micro-credentials**, a new initiative to support the European standards of quality, transparency and the take-up of short learning courses that offer transferable skills
- **Update the Digital Education Action Plan** to improve digital literacy and skills at all levels of education
- **Raise the attractiveness of STEM** (Science, Technology, Engineering and Mathematics) among the next generation by promoting policies, strategies and initiatives at EU, national and regional levels
- **Develop a European competence framework** on education for climate change and sustainable development
- Introduce a new **Talents-On-Demand** knowledge exchange to bring academia and industry together

Selection of projects from Horizon 2020, Horizon Europe and ERASMUS+ contributing to the EU Skills Agenda:

EURAXESS is one of the largest networks supporting researcher mobility and career development in Europe. More than 600 support centres in 40 countries provide free of charge assistance to mobile and non-mobile researchers and their families.

Skills Alliance for Industrial Symbiosis addresses possible skills shortages in the Energy Intensive Industries, while providing EU citizens with the necessary skill sets for the future.

MANUWORK aims to focus on the development of an integrated platform for the management of manufacturing workplaces of the future that will be characterized by the complementarity between humans and automation.

FACTS4WORKERS provides the current workforce with opportunities to develop and make use of skills that enhance their employability

Sector Skills Strategy in Additive Manufacturing aims to develop an effective system to identify and anticipate the right skills for increased labour market needs of Additive Manufacturing (AM).

FIT4FoF project - Making our Workforce Fit for the Factory of the Future aims at addressing workers' needs by analysing technology trends across 6 industrial areas (including robotics, data analytics and cybersecurity).

The ECIU European University works towards open education with flexible learning pathways, as well as short learning units leading to micro-credentials and a competence passport.

More information on the projects funded by Horizon 2020 is available at cordis.europa.eu

