Educating for the future:
the transformative power of openness

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Barcelona, 28 Sept. 2022

@aisantos

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Six Blind Men and an Elephant
by John Godfrey Saxe

The future of education

Educating for the future

Threefold perspective

to education for the future

Contemporary society

Complexity, chaos, authority, individualism, otherness, tribalism

Social challenges

Twin transition – Triple transition

Transformative innovation through openness

Open education – Human capital

Slido.com #7440996

What is open education for you in one or two words?

Which OEP are you mostly familiar with?

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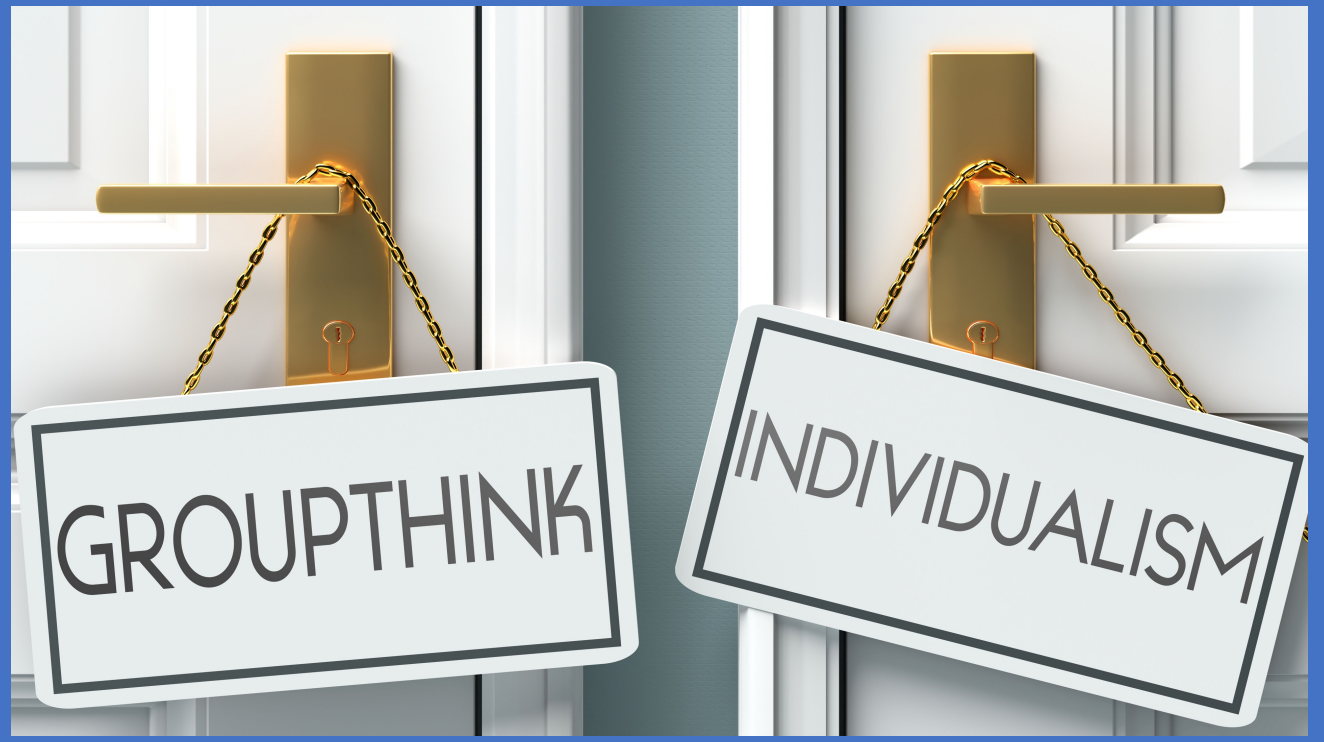
Contemporary society

More choices, complexity, chaos

Individualism

Tribalism, sense of belonging



We now have too many choices.
We make decisions 25 times more than in the 80s.
We make about 35 thousand decisions each day.

Complexity: From authority to otherness

The contemporary society (post-industrial) is characterised by a change in the way we interact with the world. We are no longer guided by institutions or by authority. There has been a shift from *authority* to *otherness*. There are no longer set standards, expectations, or fixed rules. It is characterised by impredictability.

INDIVIDUALISM
COLLECTIVISM

Individualism

We like to be treated as ‘individuals’, and to have our preferences respected

e.g. what we buy and how we buy things have changed: e.g. the pair of trainers that we design, the playlist that we build to our liking, the type of coffee we drink, the type of diet we follow…

INDIVIDUALISM
COLLECTIVISM

Tribalism

Although we like to perceive ourselves as unique, from an individual perspective, we also like to align ourselves to certain groups of people, or ways of thinking, so that we feel we belong…

We are not searching for or creating our own ideas, but aligning ourselves to the ideas that make us feel that we belong to a certain group.

algorithms

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- Twin transition – Triple transition
- Skills - jobs of the future
- Research, policies and tools

Twin – triple transitions

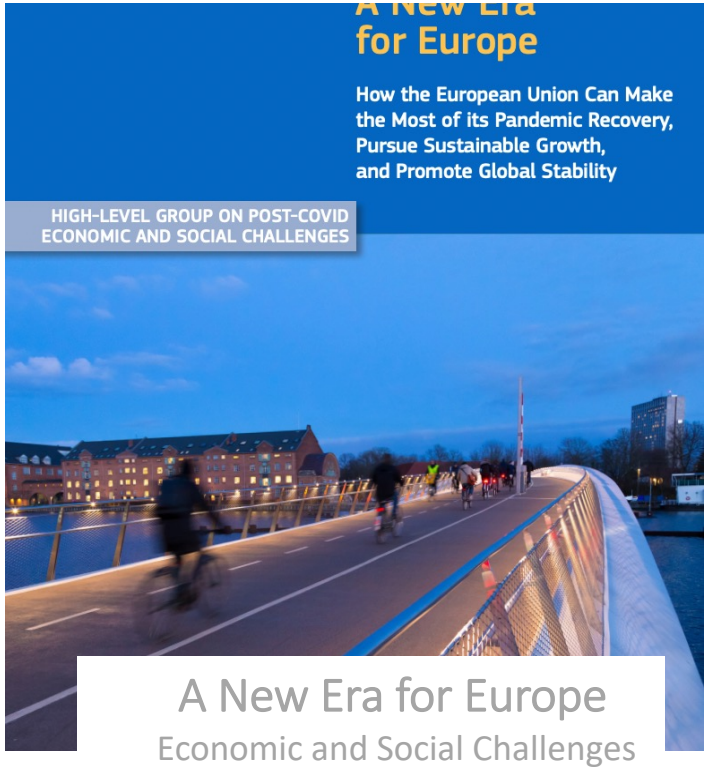
Some points of action for the European triple transition

Research, policies and tools

to help promoting transformative innovation in Europe

8th Cohesion Report
(2022)
Research

PRI Playbook
with fiches
(2022)
Research, policy experimentation and tool



A New Era for Europe
Economic and Social Challenges
(2022)
Research

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Policies

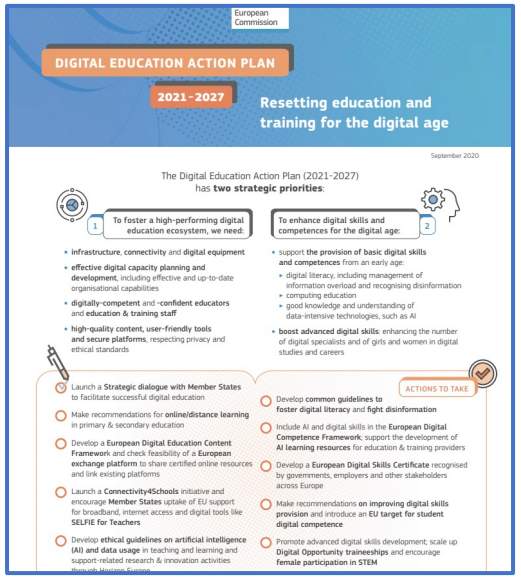
supporting transformative innovation through education

European Commission

COMMUNICATION FROM THE COMMISSION

ON A

EUROPEAN STRATEGY FOR UNIVERSITIES



European Commission

DIGITAL EDUCATION ACTION PLAN

2021 - 2027

Resetting education and training for the digital age

September 2020

The Digital Education Action Plan (2021-2027) has **two strategic priorities**:

1 To foster a high-performing digital education ecosystem, we need:

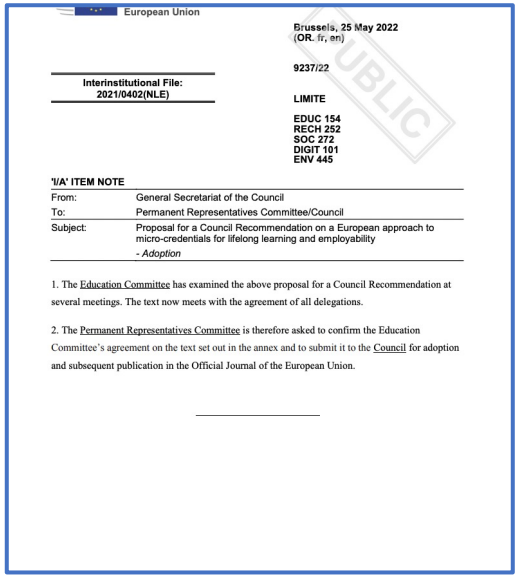
- **infrastructure**, **connectivity** and **digital equipment**
- **effective digital capacity planning and development**, including effective and up-to-date organisational capabilities
- **digitally-competent** and **confident educators** and **education & training staff**
- **high-quality content, user-friendly tools and secure platforms**, respecting privacy and ethical standards

2 To enhance digital skills and competences for the digital age:

- support **the provision of basic digital skills and competences** from an early age:
  - digital literacy, including management of information overload and recognising disinformation
  - computing education
  - good knowledge and understanding of data-intensive technologies, such as AI
- **boost advanced digital skills**: enhancing the number of digital specialists and of girls and women in digital studies and careers

ACTIONS TO TAKE

- Launch a **Strategic dialogue with Member States** to facilitate successful digital education
- Make recommendations for **online/distance learning** in primary & secondary education
- Develop a **European Digital Education Content Framework** and check feasibility of a **European exchange platform** to share certified online resources and link existing platforms
- Launch a **Connectivity4Schools** initiative and encourage **Member States** uptake of EU support for broadband, internet access and digital tools like **SELFIE for Teachers**
- Develop **ethical guidelines on artificial intelligence (AI) and data usage** in teaching and learning and support-related research & innovation activities
- Develop **common guidelines to foster digital literacy** and **fight disinformation**
- Include AI and digital skills in the **European Digital Competence Framework**; support the development of **AI learning resources** for education & training providers
- Develop a **European Digital Skills Certificate** recognised by governments, employers and other stakeholders across Europe
- Make recommendations **on improving digital skills provision** and introduce an **EU target for student digital competence**
- Promote advanced digital skills development; scale up **Digital Opportunity traineeships** and encourage **female participation in STEM**



European Union

Brussels, 25 May 2022
(OR. fr, en)

9237/22

LIMITE

EDUC 154
RECH 252
SOC 272
DIGIT 101
ENV 445

PUBLIC

Interinstitutional File:
2021/0402(NLE)

'I/A' ITEM NOTE

From:	General Secretariat of the Council
To:	Permanent Representatives Committee/Council
Subject:	Proposal for a Council Recommendation on a European approach to micro-credentials for lifelong learning and employability - *Adoption*

1. The Education Committee has examined the above proposal for a Council Recommendation at several meetings. The text now meets with the agreement of all delegations.

2. The Permanent Representatives Committee is therefore asked to confirm the Education Committee's agreement on the text set out in the annex and to submit it to the Council for adoption and subsequent publication in the Official Journal of the European Union.

EUROPEAN COMMISSION

Brussels, 5.7.2022
COM(2022) 332 final

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

A New European Innovation Agenda

{SWD(2022) 187 final}

The future of education is going open…

Open education and open science feature on fiche 59 of the PRI Playbook, as tools for policy experimentation, supportive of transformative innovation support

Open education and open science feature in the staff working document of the New Euroepan Innovation Agenda

European University is an initiative that aims to foster mobility, make universities collaborate, develop learning pathways, joint courses and issue joint degrees

Did you know?

All research results funded by the EU under the Horizon Europe programme must be released with a Creative Commons License

LEVELS OF GOVERNMENT All

LEVELS OF RESPONSIBILITY Acquiring resources; Promoter

GOALS Stakeholder engagement; Policy objectives; Problem framing

COMPETENCES Shape change; Frame policy problems; Mobilise resources sustainably

59 Open science and open education

Purpose: To foster inclusion and innovation

Use: To enable new practices and policy design to promote transformation at the system level

Europe is lagging behind in translating research and innovation (R&I) results into the economy. Efforts need to be channelled towards strengthening industrial innovation, technology transfer and fostering the diffusion of innovation through knowledge transfer and public-private cooperation (EC ERA Communication 2020). A way to do it is through **Open Science** and **Open Education**, to increase stakeholder engagement and investment in human capital. The European Research Area has enhanced access to open, free of charge, re-usable scientific information through the Open Science initiative, and the recently launched European Open Science Cloud (EOSC) creating a cloud area for research data in Europe allowing for better science through open and collaborative knowledge sharing.

As skills needs are rapidly evolving, and the green and digital transition requires future-proof education, the higher education sector has to adapt. Diversity, inclusiveness and gender equality in the higher education sector have become more important than ever (EC Communication 2022). Universities have a unique position at the crossroads of education, research, innovation, serving society and economy, through knowledge transfer and sharing. In this sense, open educational practices play an essential role, creating a route for communication between what is produced 'inside the university' to the world 'out there' – and this includes businesses, local authorities and citizens.

Re- and up-skilling the workforce through an ecosystem of practices, such as opening up access to university knowledge via open courses, open educational resources, open learning pathways, micro-credentials and open research and data, is a way forward to transformative change. This ecosystem of practices contributes to professional development and upskilling the workforce in local economies. It also opens up a dual way for communication between the universities and the community around them. Regional innovation depends upon a multi-stakeholder approach, in which smart specialisation strategies (S3) for universities play a crucial role in the triangle research, education and innovation.

OpenEdu framework.

Find out more:
Practical Guidelines on Open Education for Academics; OpenEdu Framework (European Commission, JRC) Open Science Cloud; Open Research Europe, Self-reflection tool on digital competence for academics --Check-In (JRC) / Blockchain in Education (European Commission, JRC) , European Blockchain Service Infrastructure (diploma case)

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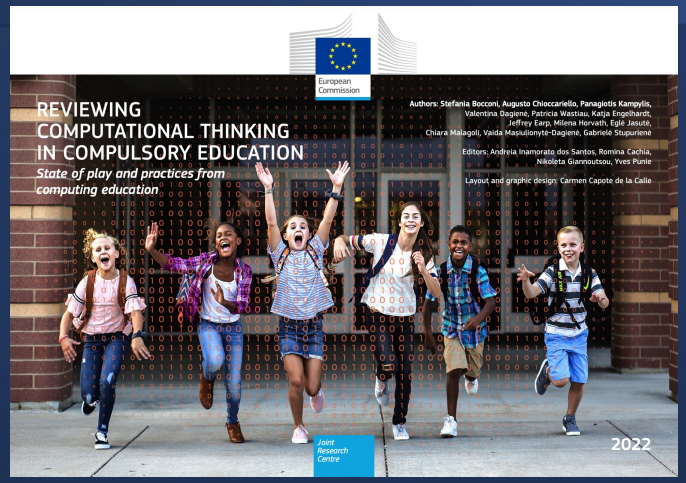
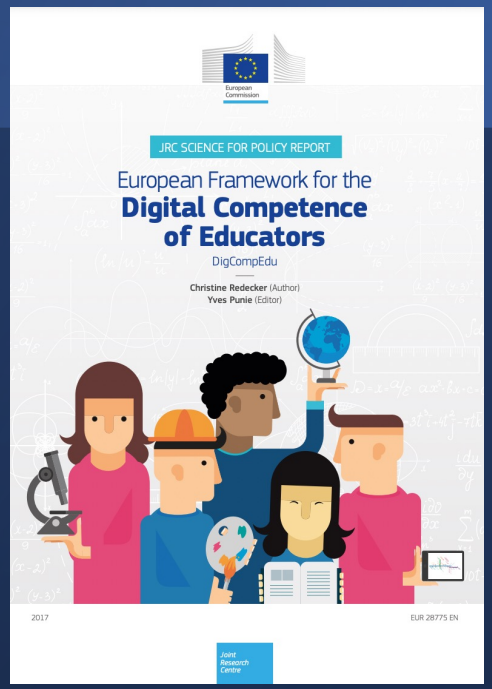
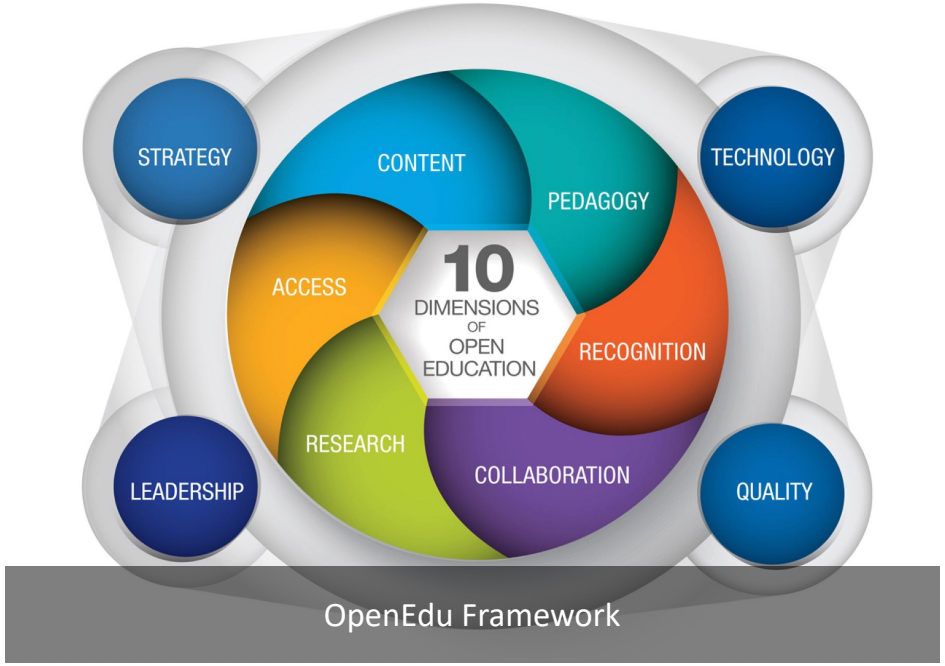
PRI Playbook – fiche 59

Research: policy support

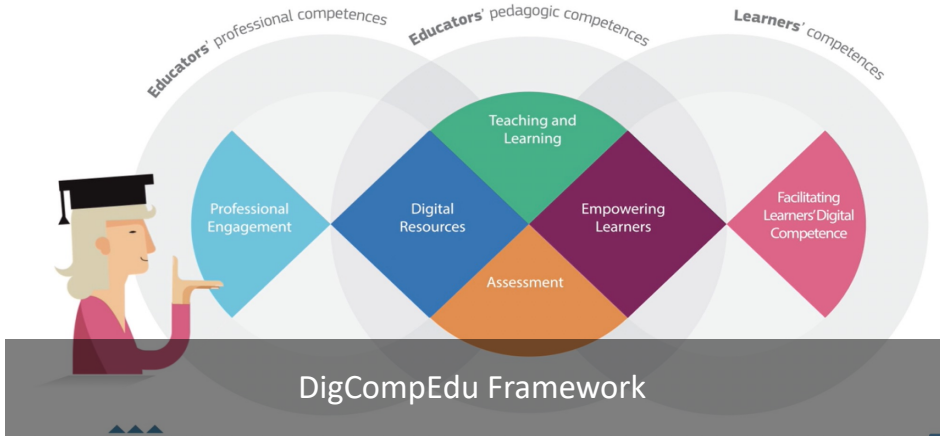




European Frameworks for Digital Education



OpenEdu Framework



DigCompEdu Framework

Home About

Are you making the most of digital technologies for teaching and learning?

Log in or Sign up

EUSurvey Login | Help | Language

CheckIn_HE_v.2021_EN

Welcome to the DigCompEdu CheckIn for Higher Eucation

Learn more about your personal strengths and the areas where you can enhance the ways in which you use digital technologies for teaching and learning. Answer the 25 questions of this self-reflection to receive detailed **feedback** with useful **tips** and the **key milestones** on your personal roadmap to innovating teaching.

This tool will help you to reflect on your digital competence as an **academic** teaching in **higher and further education**.

Please note that, by using this tool, you agree to EUsurvey's rules on data protection.

Start

Languages

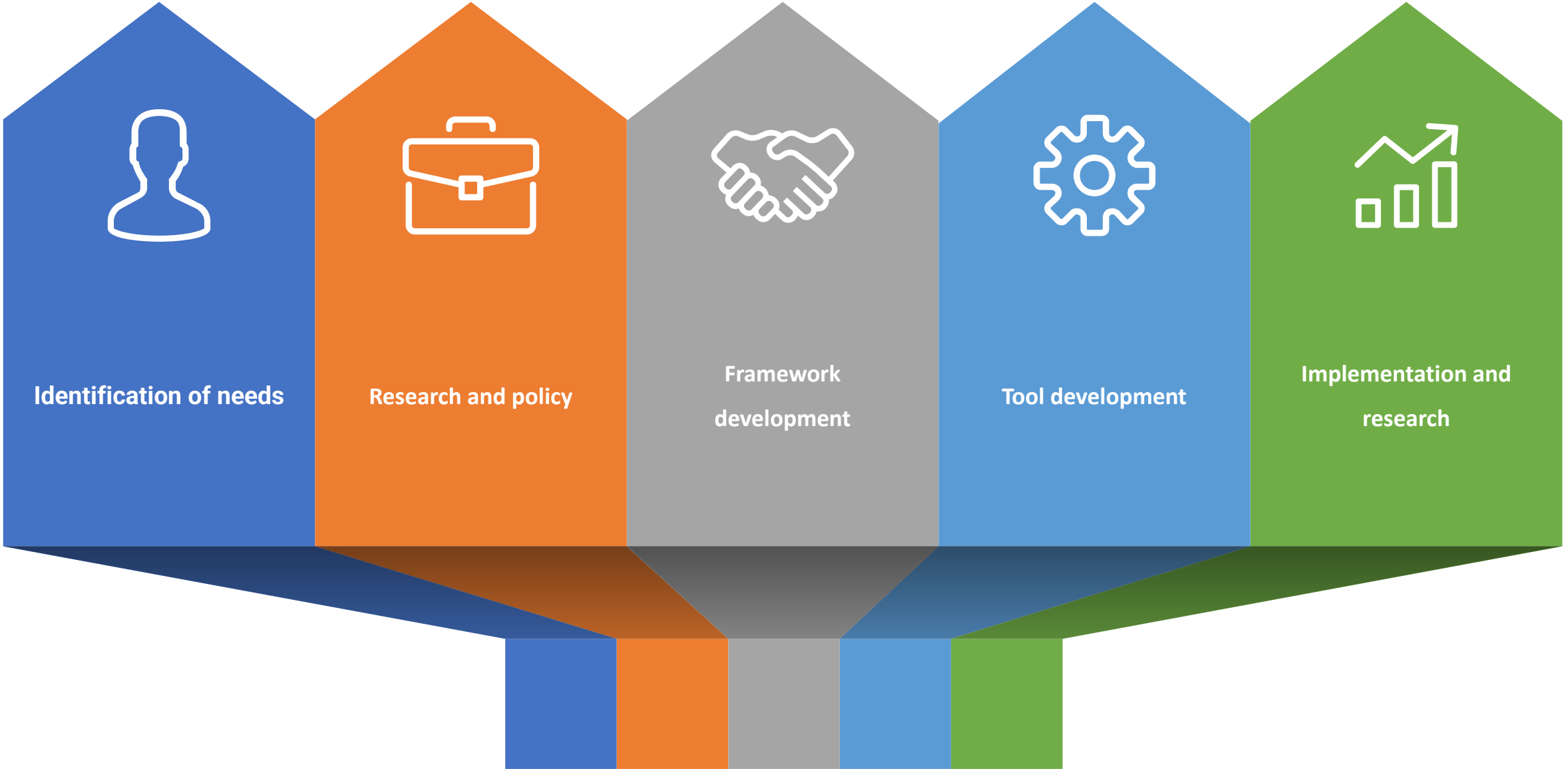
English

Contact

jrc-digcompedu@ec.europa.eu

Research and policy cycle in education

Building the future of education



“

2023 will be the European year of skills.

”

Ursula von der Leyen

President of the European Commission

Jobs of the future & future-proof skills

Emerging jobs:

Ethical hacker; Metaverse architects

Jobs of the future:

Algorithmic transparency officer; Data privacy strategist, artificial intelligence educator, Metaverse psychologist, Metaverse psychiatrist

Skills: lifelong learning, entrepreneurship, digital competence, problem solving, creativity, STEAM

The future of education is ever more technology-based

What:

LMS

Digital Content (OER, modular)

Artificial intelligence

Teaching and learning (active methodologies)

Augmented - virtual reality

MOOCs or online courses

Microcredentials

Social media

Metaverse

How:

Interoperable - customisable

Open

Focus on pedagogy (active methodologies)

Challenge-based

Learner-centred (learning pathways)

Blockchain

No geographical boundaries

Distance education (online learning)

Autonomous learners

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Slido.com #7440996 Results

What is open education for you in one or two words?

Educating for the future:

Why is open education important?

OE fosters inclusion in education

OE includes top-down and bottom-up approaches

OE can be performed at the individual level, by choosing to be an open educator or open learner (or both!)

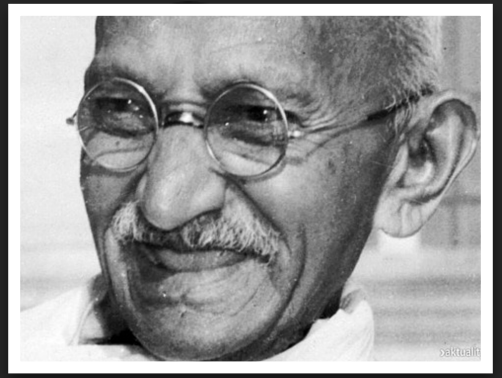
OE fosters system change

OE can be the foundation for upskilling and reskilling

OE supports transformative innovation

OE requires an open mindset – an asset in itself

Be the change you wish to see in the world.



Mahatma Ghandi

Lawyer, social activist 1869-1948

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THANK YOU

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