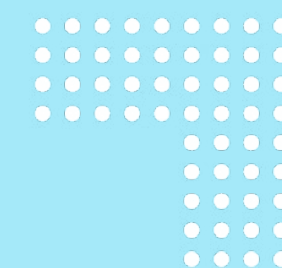# FINDINGS ON THE META-MODEL FOR DIGITAL EDUCATORS

Comprehensive List of Digital Competences for Educators

EdDiCo

Supporting the Development
of the Digital Competences
of Educators

FINDINGS ON THE META-MODEL FOR DIGITAL EDUCATORS
Comprehensive List of Digital Competences for Educators

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DigComp Edu

All Aboard

eLene4work

DIG COMP 2.1

DigCompOrg

Revive project

Digital Competence Wheel

Wedlake, Keyes and Lothian model

ISTE Computational Thinking competencies for educators

Navigate Knowledge Tree

European e-Competence Framework

Short description
DigCompEdu is a scientifically sound background framework which helps to guide policy and can be directly adapted to implement regional and national tools and training programmes. In addition, it provides a common language and approach that will help the dialogue and exchange of best practices across borders. It aims to provide a general reference frame for developers of Digital Competence models, i.e. Member States, regional governments, relevant national and regional agencies, educational organisations themselves, and public or private professional training providers.

Year of publication
2017

Targeted groups
Educators in general: school teachers, HE teachers, company trainers, any educator actually

Link to website
https://ec.europa.eu/jrc/en/digcompedu

Link to document
-

Available languages
EN, ES, DE (on the EU wesbite)
+ IT (on italian Ministry for Educ. website)

Related tools/items
Self assesment tool in several languages

Level
EQF 5, 6 and 7

EdDiCo

MORE

DigComp Edu

All Aboard

eLene4work

DIG COMP 2.1

DigCompOrg

Revive project

Digital Competence Wheel

Wedlake, Keyes and Lothian model

ISTE Computational Thinking competencies for educators

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European e-Competence Framework

Short description
It provides (as described on its website):
- a simple, fun way of thinking about digital skills (in the form of a Metro Map)
- shared lessons and learning materials that anyone can access online
- 'digital badges' across a range of applications including, of course, digital skills
It was developed working in partnership with many organisations and groups, including supporting student engagement projects
It championed a focus on confidence, empowerment, identity, and wellbeing.

Year of publication
2015

Targeted groups
Learners, teachers, and anyone who uses technology.

Link to website
https://www.allaboardhe.ie/

Link to document
https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/european-framework-digital-competence-educators-digcompedu

Available languages
EN

Related tools/items
Self assesment tool in English, called "Your Digital Confidence Profile".

Level
not specified

MORE

EdDiCo

Basic information of the analyzed frameworks (1/2)

DigComp Edu

All Aboard

eLene4work

DIG COMP 2.1

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European e-Competence Framework

Short description
Comparative Analysis on the state of the art on soft skills and digital soft skills.

Year of publication
2017

Targeted groups
HE students in the transition to the labour market.

Link to website
http://elene4work.eu/project-outputs/comparative-analysis/

Link to document
https://drive.google.com/open?id=0ByZukJfrU4qGMGhpLVJYcTZ0clE

Available languages
EN, FR

Related tools/items
Self assessment tool + Orientation Guide + Personal Journal (see website to check them all).

Level
EQF 6 and 7

MORE

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ISTE Computational Thinking competencies for educators

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European e-Competence Framework

Short description
The Digital Competence Framework for Citizens, with 8 proficiency levels and examples of use. It is structured in 5 main competence areas (DIMENSION 1), then described through specific competences (DIMENSION 2). For each competence 8 levels of proficency have been defined. Some examples are then available. It is strictly connected with DIGCOMP EDU: it finalized the last of the 6 areas of competences that should be enanched by the educators.

Year of publication
2017

Targeted groups
EU citizens

Link to website
https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/digcomp-21-digital-competence-framework-citizens-eight-proficiency-levels-and-examples-use

Link to document
http://publications.jrc.ec.europa.eu/repository/bitstream/JRC106281/web-digcomp2.1pdf_(online).pdf

Available languages
EN + many others

Related tools/items
-

Level
not specified

EdDiCo

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Basic information of the analyzed frameworks (1/2)

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Digital Competence Wheel

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ISTE Computational Thinking
competencies for educators

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European e-Competence Framework

Short description
Digital learning technologies, in the context of DigCompOrg, constitute a key enabler for educational organisations, which can support their efforts to achieve their particular mission and vision for quality education. Deep, as distinct from superficial, integration of digital technologies requires significant educational innovation and implies a process of planning for change on three basic dimensions: pedagogical, technological and organisational.

Year of publication
2018

Targeted groups
Digitally competent organizations.

Link to website
https://ec.europa.eu/jrc/en/digcomporg/framework

Link to document
-

Available languages
EN

Related tools/items
-

Level
organisational

MORE

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European e-Competence Framework

Short description
Quality criteria identified for ICT integration on institutional level, Curriculum level, professional skill development level and overall quality assurance process (national level).

Year of publication
-

Targeted groups
-

Link to website
http://reviveproject.vdu.lt/vet/quality-criteria/

Link to document
-

Available languages
-

Related tools/items
-

Level
EQF 5, 6 and 7

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ISTE Computational Thinking competencies for educators

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European e-Competence Framework

Short description
The purpose of the Digital Competence Wheel is to provide an overview of which digital competences exist and should be improved, as well as concrete inspiration for how to improve the most relevant digital competences.

Year of publication
2009-2020

Targeted groups
Individuals

Link to website
https://digital-competence.eu/

Link to document
-

Available languages
EN

Related tools/items
DigCompOrg

Level
EQF 5, 6 and 7

EdDiCo

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Basic information of the analyzed frameworks (1/2)

DigComp Edu

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ISTE Computational Thinking competencies for educators

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European e-Competence Framework

Short description
Digital skill sets for diverse users: a comparison framework for curriculum and competences.

Year of publication
2019

Targeted groups
Individuals

Link to website
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3427252

Link to document
-

Available languages
EN

Related tools/items
DigCompEdu

Level
-

MORE

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ISTE Computational Thinking competencies for educators

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European e-Competence Framework

Short description
Integrate CT across disciplines, with all students: CT competencies for educators. Our goal is to help all learners become computational thinkers who can harness the power of computing to innovate and solve problems. These competencies are intended to help educators build those skills by integrating computational thinking (CT) across all disciplines and with students of all ages.

Year of publication
2019

Targeted groups
US High School teachers (K-12)

Link to website
https://www.iste.org/standards/computational-thinking

Link to document
-

Available languages
EN

Related tools/items
-

Level
EQF 5, 6 and 7

MORE

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Basic information of the analyzed frameworks (1/2)

DigComp Edu

All Aboard

eLene4work

DIG COMP 2.1

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Wedlake, Keyes and Lothian model

ISTE Computational Thinking competencies for educators

Navigate Knowledge Tree

European e-Competence Framework

Short description
Based on the results of a survey conducted among HE students in Italy, Bulgaria and Sweden, the NAVIGATE knowledge tree is intended to sustain the acquisition of specific Information literacy competences. It has been designed to support HE teachers in the definition of IL learning goals.

Year of publication
2018

Targeted groups
HE students. Tool for teachers

Link to website
https://www.navigateproject.eu/

Link to document
https://www.justframeworks.com/#!/frameworks/1a37b1af-a89b-e811-80c2-000d3ab29ba4

Available languages
EN

Related tools/items
-

Level
EQF 6 and 7

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European e-Competence Framework

Short description
The European e-Competence Framework is not based on job profiles but rather on competences as this approach is more flexible. Its purpose is to provide general and comprehensive e-Competences specified at five proficiency levels that can then be adapted and customised into different contexts from ICT business and stakeholder application perspectives.

Year of publication
2014

Targeted groups
The European e-Competence Framework provides a basic, clear and sound orientation for companies and all type of organizations in the public and private sector who need to take decisions about recruitment, career paths, training, curricula, assessment, etc. It is also useful for promoting clearer understanding of competence needs from ICT organizations, professions and professional perspective.

Link to website
http://www.ecompetences.eu/it/e-cf-overview/

Link to document
http://www.ecompetences.eu/wp-content/uploads/2014/02/European-e-Competence-Framework-3.0_IT.pdf

Available languages
EN, DE, IT, ...

Related tools/items
-

Level
EQF 6 and 7

EdDiCo

MORE

Basic information of the analyzed frameworks (2/2)

Spanish Teacher Digital Competence Framework

UNESCO Common Digital Competence Framework for teachers

DCDM Digital Competences development methodology

Essential Digital Skills Framework

Future Skills Framework

Digital Skills Framework (University of Edinburgh)

Digital Competence Framework

Technological Pedagogical Content Knowledge Framework

Jisc Digital Capability Framework

Short description
The Common Digital Competence Framework for Teachers is a reference framework for thediagnosis and improvement of the digital competences for teachers. These competences are defined as those teachers need to improve their teaching practice and for their continuous professional development. These are according to EuropeanParliament indications on key competences for lifelong learning (2006/962/EC).
Framework for Teachers is made up by 5 competence areas and their 21 competences defined in 6 proficiency levels.
Each competence provides a detailed description as well as the descriptors based in terms ofknowledge, ability and attitude.

Year of publication
2017

Targeted groups
Teachers from all educational stages.

Link to website
https://intef.es/

Link to document
https://aprende.intef.es/sites/default/files/2018-05/2017_1024-Common-Digital-Competence-Framework-For-Teachers.pdf

Available languages
ES, EN

Related tools/items
https://portfolio.intef.es
http://aprende.intef.es

Level
EQF 6 and 7

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LESS

Spanish Teacher Digital Competence Framework

UNESCO Common Digital Competence Framework for teachers

DCDM Digital Competences development methodology

Essential Digital Skills Framework

Future Skills Framework

Digital Skills Framework (University of Edinburgh)

Digital Competence Framework

Technological Pedagogical Content Knowledge Framework

Jisc Digital Capability Framework

Short description
The ICT Competency Framework for Teachers (ICT CFT) Version 3 is a tool to guide pre- and in- service teacher training on the use of ICTs across the education system. It is intended to be adapted and contextualized to support national and institutional goals. The ICT CFT Version 3 responds to the 2030 Agenda for Sustainable Development, adopted by the UN General Assembly, which underscores a prevalent global shift towards the building of inclusive Knowledge Societies. It addresses recent technological and pedagogical developments in the field of ICT and Education and incorporates inclusive principles of non- discrimination, open and equitable information accessibility and gender equality in the delivery of education supported by technology. The UNESCO ICT CFT framework identifies 18 ICT competencies to which teachers should aspire and subdivides these into 64 specific objectives. The competencies range from encouraging teachers to understanding national priorities as identified in national ICT in Education policies, how ICT can support the curriculum, assessment strategies, pedagogy, school and class organization, administration as well ongoing professional development.

Year of publication
2019

Targeted groups
Its target audience is teacher-training personnel, educational experts, policy-makers, teacher support personnel and other professional development providers.

Link to website
https://en.unesco.org/themes/ict-eduction/competency-framework-teachers-oer

Link to document
https://unesdoc.unesco.org/ark:/48223/pf0000265721

Available languages
EN

Related tools/items
https://www.oercommons.org/hubs/UNESCO

Level
EQF 6 and 7

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LESS

Spanish Teacher Digital Competence Framework

UNESCO Common Digital Competence Framework for teachers

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Jisc Digital Capability Framework

Short description
The DCDS project will empower citizens, training providers and policy makers to address in synergy
one of the key challenges that Europe is currently facing, namely the lack of basic digital skills, by
supporting assessment of adult citizens' learning needs, valorisation of their existing skills, and
design and delivery of inviting training opportunities adapted to individual learning needs.

Year of publication
2019

Targeted groups
25+ years old citizens with low digital skills through an integrated system that combines distant learning on an online environment and face-to-face training (blended learning)

Link to website
http://www.dcds-project.eu/results/dcd-methodology/

Link to document
http://www.dcds-project.eu/wp-content/uploads/2019/02/D6_DCD-Methodology-_v1_revised.pdf

Available languages
EN

Related tools/items
http://www.dcds-project.eu/dcds-platform/

Level
EQF levels below 5

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LESS

Spanish Teacher Digital Competence Framework

UNESCO Common Digital Competence Framework for teachers

DCDM Digital Competences development methodology

Essential Digital Skills Framework

Future Skills Framework

Digital Skills Framework (University of Edinburgh)

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Technological Pedagogical Content Knowledge Framework

Jisc Digital Capability Framework

Short description
This framework has been designed to support providers, organisations and employers across the UK who offer training for adults to secure their essential digital skills.
The frameworks sets out 5 categories of essential digital skills for life and work:
- communicating
- handling information and content
- transacting
- problem solving
- being safe and legal online.

Year of publication
2018

Targeted groups
Adults

Link to website
https://www.gov.uk/government/publications/essential-digital-skills-framework

Link to document
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/738922/Essential_digital_skills_framework.pdf

Available languages
EN

Related tools/items
-

Level
not specified

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Spanish Teacher Digital Competence Framework

UNESCO Common Digital Competence Framework for teachers

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Essential Digital Skills Framework

Future Skills Framework

Digital Skills Framework (University of Edinburgh)

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Technological Pedagogical Content Knowledge Framework

Jisc Digital Capability Framework

Short description
A framework jointly designed by McKinsey and Stifterverband to assess the competence demand of the private sector and society. Framework is made up 18 skills, listed under three categories: 1) technological skills; 2) digital basic skills; 3) classical skills.

Year of publication
2018

Targeted groups
Adults

Link to website
https://www.stifterverband.org/future-skills/framework

Link to document
https://www.stifterverband.org/medien/future-skills-welche-kompetenzen-in-deutschland-fehlen

Available languages
DEU

Related tools/items
-

Level
not specified

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Future Skills Framework

Digital Skills Framework (University of Edinburgh)

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Technological Pedagogical Content Knowledge Framework

Jisc Digital Capability Framework

Short description
The Digital Skills Framework is a tool to help you evaluate your current levels of digital capability, reflect on your development needs, plan your development path and find resources to help you develop your skills.

The framework can be used by all staff and students at the University including learners, teachers, researchers and professional services staff.

Year of publication
2011-2020

Targeted groups
All staff and students at the University including learners, teachers, researchers and professional services staff.

Link to website
https://www.digitalskills.ed.ac.uk/

Link to document
-

Available languages
EN

Related tools/items
This framework is closely based on the Jisc Digital Capability Framework

Level
EQF 5, 6 and 7

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LESS

Basic information of the analyzed frameworks (2/2)

Spanish Teacher Digital Competence Framework

UNESCO Common Digital Competence Framework for teachers

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Jisc Digital Capability Framework

Short description
Three competence levels- Level 1: Overview knowledge / basics; Level 2: Practical application teaching / learning context or in own research activity; Level 3: Provision of information; instructions and support for students and / or colleagues.

Year of publication
2017

Targeted groups
Educators

Link to website
https://www.studiumdigitale.uni-frankfurt.de/67051940/gmw17_Digitale_Kompetenz_v04.pdf

Link to document
https://www.studiumdigitale.uni-frankfurt.de/65903024/Kompetenzraster_Digitale-Kompetenz-Hochschullehrende.pdf

Available languages
GER

Related tools/items
-

Level
not specified

EdDiCo   LESS

Basic information of the analyzed frameworks (2/2)

Spanish Teacher Digital Competence Framework

UNESCO Common Digital Competence Framework for teachers

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Digital Skills Framework (University of Edinburgh)

Digital Competence Framework

Technological Pedagogical Content Knowledge Framework

Jisc Digital Capability Framework

Short description
Technological pedagogical content knowledge (TPCK) reflects a new direction in understanding the complex interactions among content, pedagogy, learners and technology that can result in successful integration of multiple technologies in teaching and learning.

Year of publication
2013

Targeted groups
Teachers (school and HEI)

Link to website
-

Link to document
https://www.researchgate.net/profile/Kevin_Graziano/publication/319207089/figure/fig1/AS:530026773913600@1503379638509/Technological-Pedagogical-Content-Knowledge-TPACK-Framework-Reproduced-by-permission.png

Available languages
EN

Related tools/items
-

Level
EQF 5, 6 and 7

EdDiCo   LESS

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Jisc Digital Capability Framework

Short description
The present-day Digital Capability Framework is now well recognised and used across many universities to develop staff and student skills. It describes six overlapping elements of digital capability for staff and students, which can be further broken down into 15 subcategories for ease of use, clarity and reference.

The framework aims to help with:
- Supporting discussion and building consensus about the capabilities required in a digital organisation,
- Mapping digital expertise across different roles, identifying gaps and recognising where digital expertise adds value,
- Planning and reviewing personal development,
- Structuring and signposting development opportunities,
- Planning or reviewing a curriculum.

Year of publication
2018

Targeted groups
HEI staff and students

Link to website
https://www.jisc.ac.uk/rd/projects/building-digital-capability

Link to document
-

Available languages
EN

Related tools/items
Digital discovery tool; role profiles; resoures to support organisational approaches; case studies.

Level
not specified

EdDiCo

LESS

DigCompEdu as the starting point of this analysis

1 Professional engagement

2 Digital Resources

3 Teaching and Learning

4 Assessment

5 Empowering Learners

6 Facilitating Learners' competences

EdDiCo

1 Professional Engagement

1.1 Organisational communication

1.2 Professional collaboration

1.3 Reflective practice

1.4 Digital Continuous Professional Development

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1 **Professional Engagement**

1.1 Organisational communication

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2.1 Selecting digital resources

2.2 Creating and modifying digital resources

2.3 Managing, protecting and sharing digital resources

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2 Digital Resources

2.1 Selecting digital resources

2.2 Creating and modifying digital resources

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Health

Gamification

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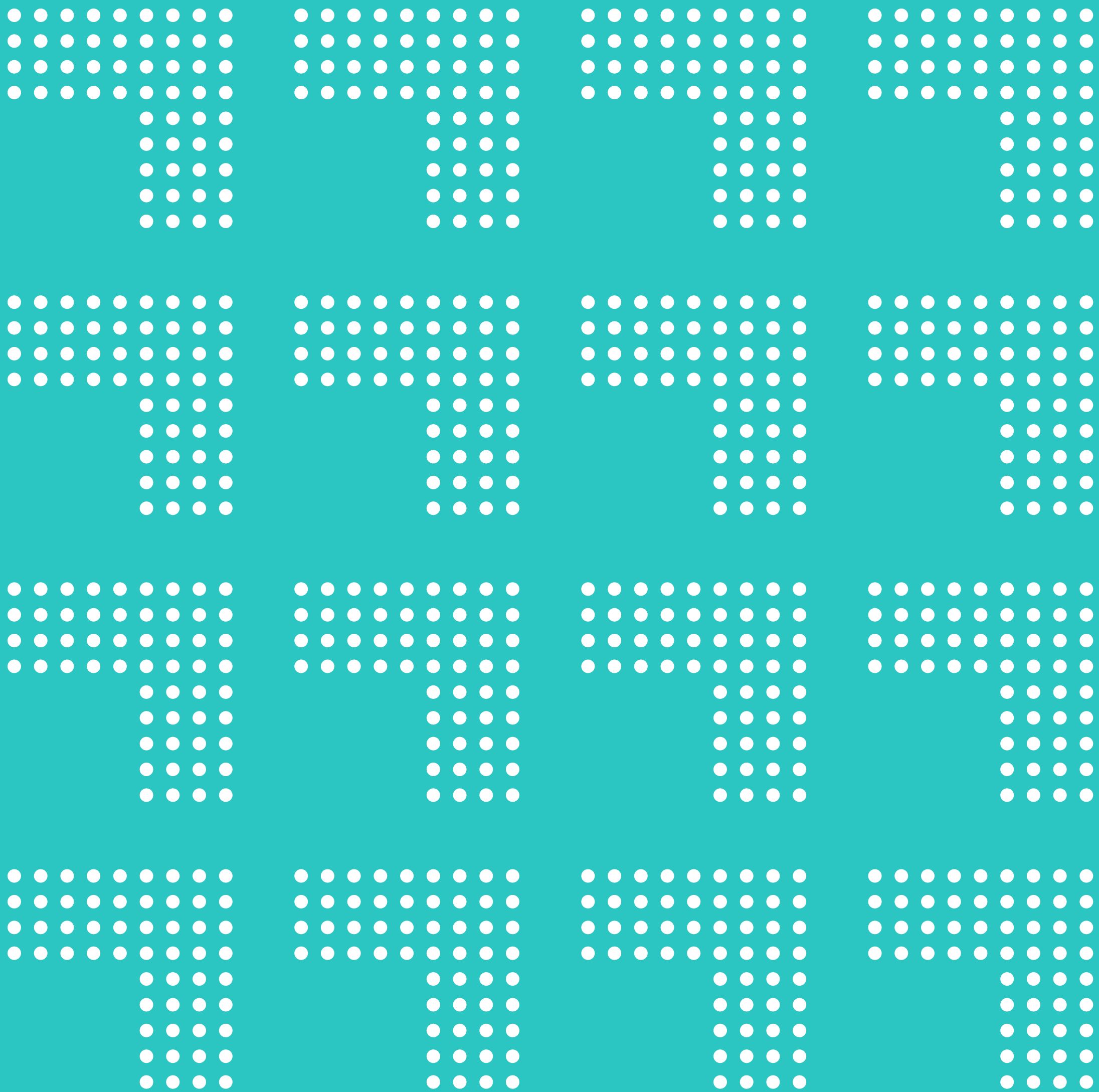For further and updated information about this project please see: **https://eddico.eu/**

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About the EdDico Project

With the advent of each new technology come predictions of fundamental changes in education. Yet few of these changes have been realized. Digital learning may indeed be the technology that breaks that pattern, but this will only come to pass if educators are empowered to take advantage of the technologies and methodologies available to them. The EdDiCo project aims at empowering individual educators to (a) identify the potential technology holds to transform and improve the education they offer, (b) identify the digital competences they would need to acquire to take advantage of those technologies and associated methodologies; (c) find the educational resources necessary to acquire those competences.