



DigCompEdu

The European Framework for the Digital Competence of Educators

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November 2018



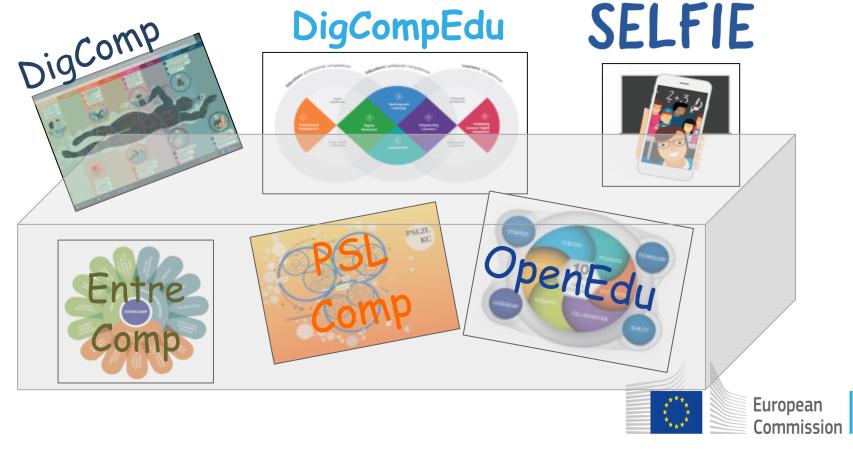
Joint Research Centre (JRC) at a glance



What we do...

Competence frameworks

- → For citizens, learners, teachers and trainers
- → For educational organisations



...and why

Council Recommendation on Key Competences for Lifelong Learning (2018)

- 1) Literacy competence
- 2) Multilingual competence
- Mathematical competence and competence in science, technology and engineering
- 4) Digital competence
- Personal, social and learning to learn competence
- 6) Citizenship competence
- 7) Entrepreneurship competence
- 8) Cultural awareness and expression competence







Digital Education Action Plan

17 January 2018

- Making better use of digital technology for teaching and learning
- Developing relevant digital competences and skills for the digital transformation
- Improving education through better data analysis and foresight







JRC Frameworks for Digital Competence

DigComp



Digital Competence

Of citizens for

Life in a Digical Age



SELFIE

Digital Capacity of Schools

DigCompEdu



Professional Digital Competence of Educators

To modernise education in a digital age



SELFIE







https://www.youtube.com/watch?v=n Ma0-2f 1w

More information:

https://ec.europa.eu/education/schools-go-digital



DigComp



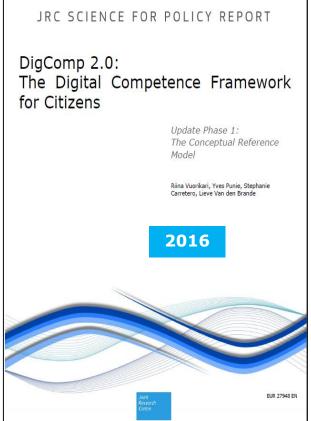


DigComp

Definition:

Digital Competence involves the confident, critical ad responsible use of, and engagement with, digital technologies for learning, at work, and for participation in society {COM (2018) 24 final}







DIGCOMP 2.0

THE DIGITAL COMPETENCE FRAMEWORK FOR CITIZENS
THE COMPETENCES



DigComp

1. Information and data literacy

- 1.1 Browsing, searching and filtering data, information and digital content
- 1.2 Evaluating data, information and digital content
- 1.3 Managing data, information and digital content

2. Communication and collaboration

- 2.1 Interacting through digital technologies
- 2.2 Sharing through digital technologies
- 2.3 Engaging in citizenship through digital technologies
- 2.4 Collaborating through digital technologies
- 2.5 Netiquette
- 2.6 Managing digital identity

3. Digital content creation

- 3.1 Developing digital content
- 3.2 Integrating and re-elaborating digital content
- 3.3 Copyright and licences
- 3.4 Programming

4. Safety

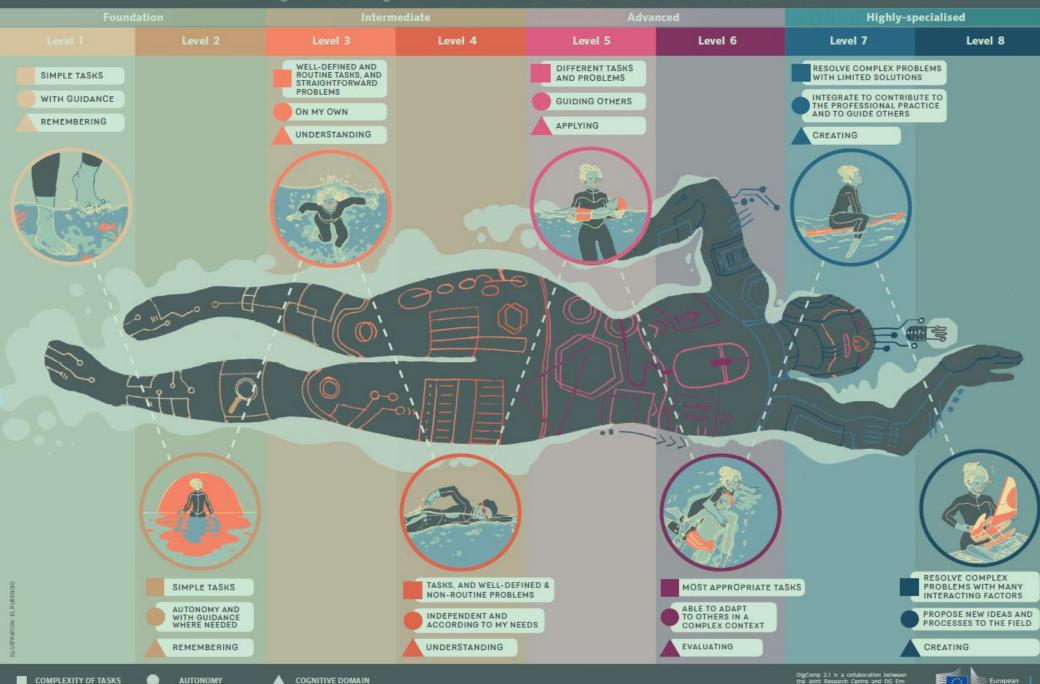
- 4.1 Protecting devices
- 4.2 Protecting personal data and privacy
- 4.3 Protecting health and well-being
- 4.4 Protecting the environment

5. Problem solving

- 5.1 Solving technical problems
- 5.2 Identifying needs and technological responses
- 5.3 Creatively using digital technologies
- 5.4 Identifying digital competence gaps

European

Learning to swim in the Digital Ocean: THE DIGITAL COMPETENCE FRAMEWORK FOR CITIZENS (V. 2.1)



User Guide





DigComp into Action GET INSPIRED

MAKE IT HAPPEN

A user guide to The Digital Competence Framework for Citizens 50 content items from

38 unique examples



https://bit.ly/2NBWmdE

EUR 29115 EN





Example: Germany

Students

verstehen und reflektieren

	Dig	VNIV Stratogy		4.	4. Schützen und sicher Agieren
Comp		KMK Strategy		4.1	4.1. Sicher in digitalen Umgebungen
	1.	1. Suchen, Verarbeiten und		2.6	agieren
	т.	Aufbewahren	_	4.2	4.2. Persönliche Daten und
	1.1	1.1. Suchen und Filtern		4.2	Privatsphäre schützen
	1.2	1.2. Auswerten und Bewerten	KUITUSAIINISTER KONFIETNZ	4.3	4.3. Gesundheit schützen
	1.3	1.3. Speichern und Abrufen		4.4	4.4. Natur und Umwelt schützen
	2.	2. Kommunizieren und Kooperieren	Bildung in der digitalen Welt Strategie der	5.	5. Problemlösen und Handeln
	2.1	2.1. Interagieren	Kultusministerkonferenz	5.1	5.1. Technische Probleme lösen
	2.2	2.2. Teilen	116	5 0	5.2. Werkzeuge bedarfsgerecht
	2.4	2.3. Zusammenarbeiten		5.2	einsetzen
	2.5	2.4. Umgangsregeln kennen und	-2x 38 1+16 ·		5.3. Eigene Defizite ermitteln und nach
	2.5	einhalten (Netiquette)	- 2 x = 54 (2)	5.4	Lösungen suchen
	2.3	2.5. An der Gesellschaft aktiv	* * * * * * * * * * * * * * * * * * * *		5.4. Digitale Werkzeuge und Medien
	2.5	teilhaben	4x +4	5.3	zum Lernen, Arbeiten und
	3.	3. Produzieren und Präsentieren	kmkorg		Problemlösen nutzen
	3.1	3.1. Entwickeln und Produzieren			5.5. Algorithmen erkennen und
	3.2	 3.2. Weiterverarbeiten und Integriere	n	3.4	formulieren
			<u> </u>	_	6. Analysieren und Reflektieren
	3.3	3.3. Rechtliche Vorgaben beachten		_	6.1. Medien analysieren und bewerten
					6.2. Medien in der digitalen Welt
				_	

Example: Spain

Teachers





http://aprende.educalab.es/wp-content/uploads/2017/11/2017_1020_Marco-Com%C3%BAn-de-Competencia-Digital-Docente.pdf

Estructura del Portfolio de la Competencia Digital Docente



AUTOEVALUACIÓ

Autoevalue su nivel de Competencia Digital Docerte en las 5 Areas del Marco Común de Competencia Digital Docerte de INTEF.

PORTA-EVIDENCIAS

El porta evidencia la ofinire la oportunidad de imperiori impellos evidencias que considera fustrativas para evidar su Competencia Digital Docente, pare campietar la información aportada en su Biografia.

Mada, organize y etiquete sus avidencias por tipos, por ejempla, migrisa, satias, cartificados, diplomas, projectos, folialpa con alumnes y en sentros selucidivos, premios, galardones, anafactos digitanes, recursos educacions allertos, publicaciones, etc.

PASAPORTE

TI Prosporte de la Competencia Digital Doceres muestra el revet que fu attançado en dicha competencia, sel como una vivilor general de las evidencias que tel avetars, de actando a las que untel hape includo en su porta-evidencias. A medista que untará actualido su biografía y su porta-evidencias, su Papaporte de la

Competencia Digital Sentinto e actualizaria.

Si lo dese, puede hacerto público y compartirto en sus redes sociales. Además, poede descargado en formato improvista; reflejaná la fecha de actualización más reciente.



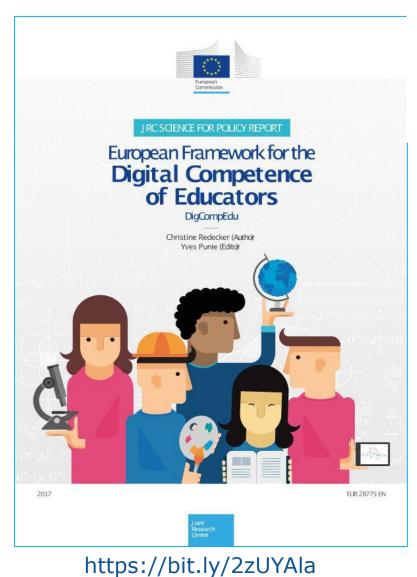








The Framework





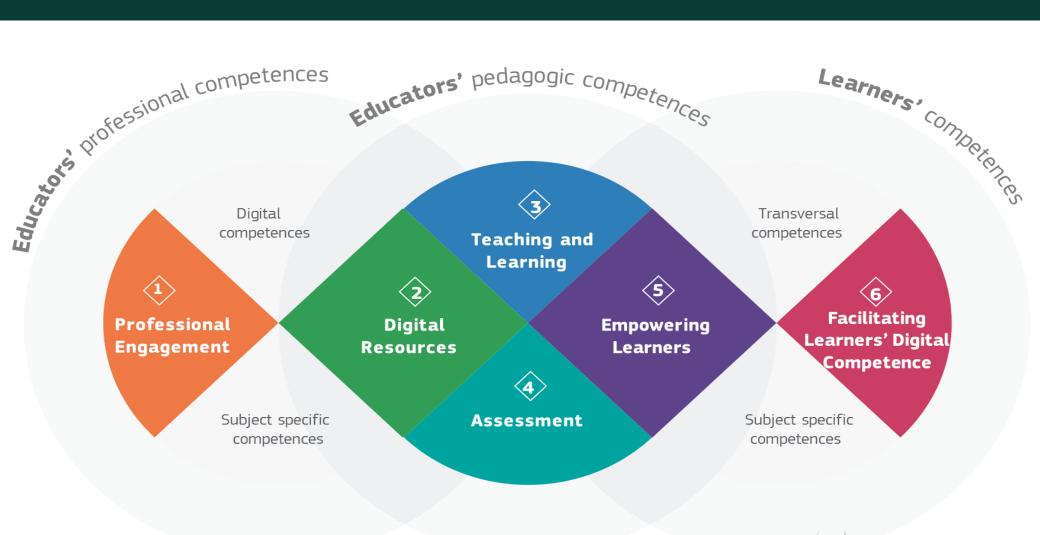
More about the Project:

https://ec.europa.eu/jrc/en/digcompedu





In a nutshell





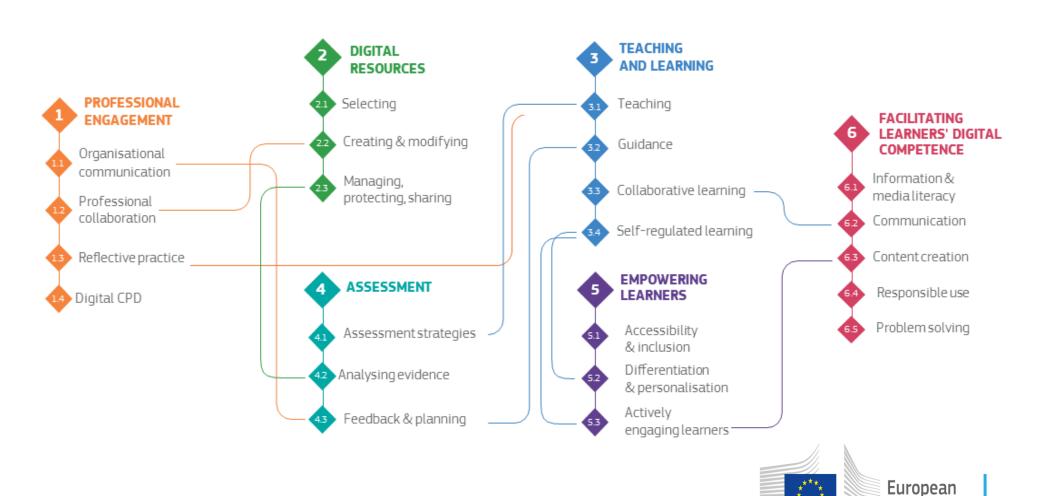
DigCompEdu explained

Educators' professional competences

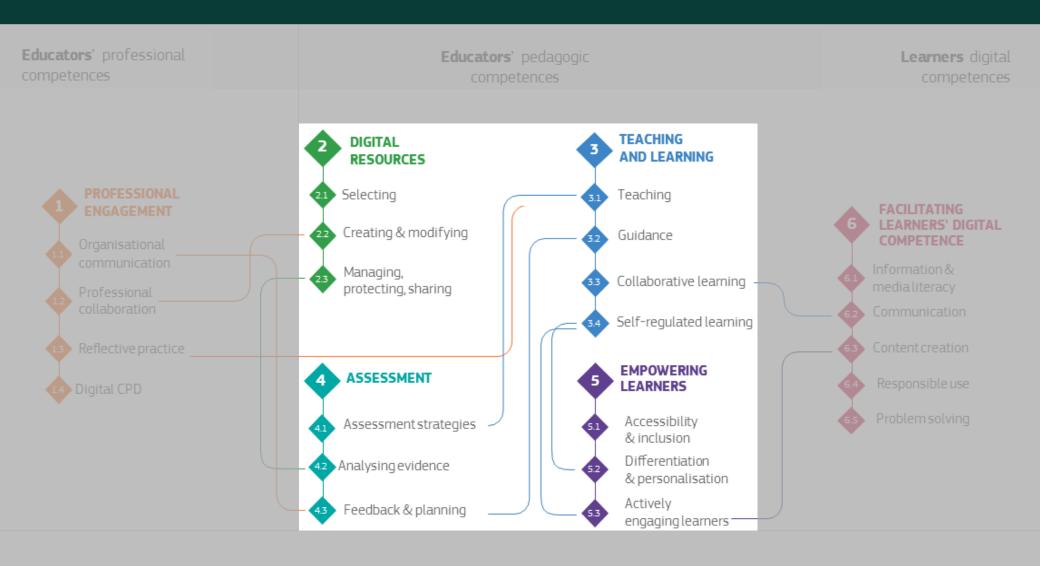
Educators' pedagogic competences

Learners digital competences

Commission



The pedagogic core



Core Competences for Teaching in the Digital Age

In a traditional classroom, 3.1 is the most important competence for educators



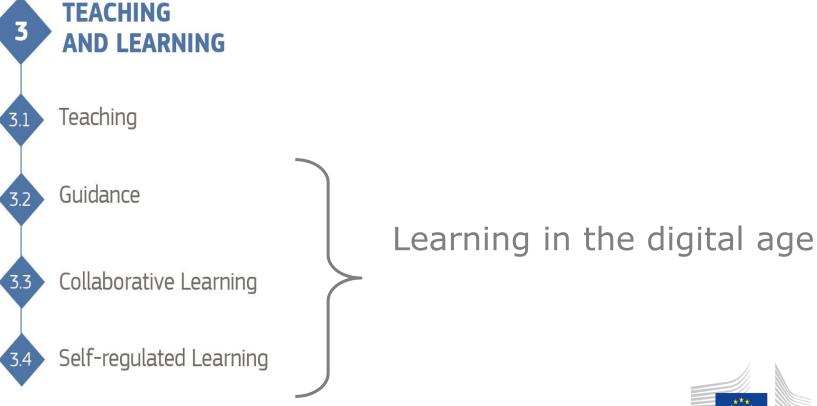


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To plan for and implement digital devices and resources into the teaching process, so as to enhance the effectiveness of teaching interventions. To appropriately manage and orchestrate digital teaching interventions. To experiment with and develop new formats and pedagogical methods for instruction.

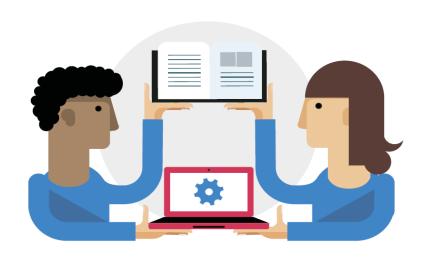
Learning in the digital age

The transformative potential of digital technologies





The two pillars of learning in the digital age



Collaborative learning

To use digital technologies to foster and enhance learner collaboration. To enable learners to use digital technologies as part of collaborative assignments, as a means of enhancing communication, collaboration and collaborative knowledge creation.



Self-regulated learning

To use digital technologies to support learners' self-regulated learning. To enable learners to plan, monitor and reflect on their own learning, provide evidence of progress, share insights and come up with creative solutions.

> European Commission

Consequences

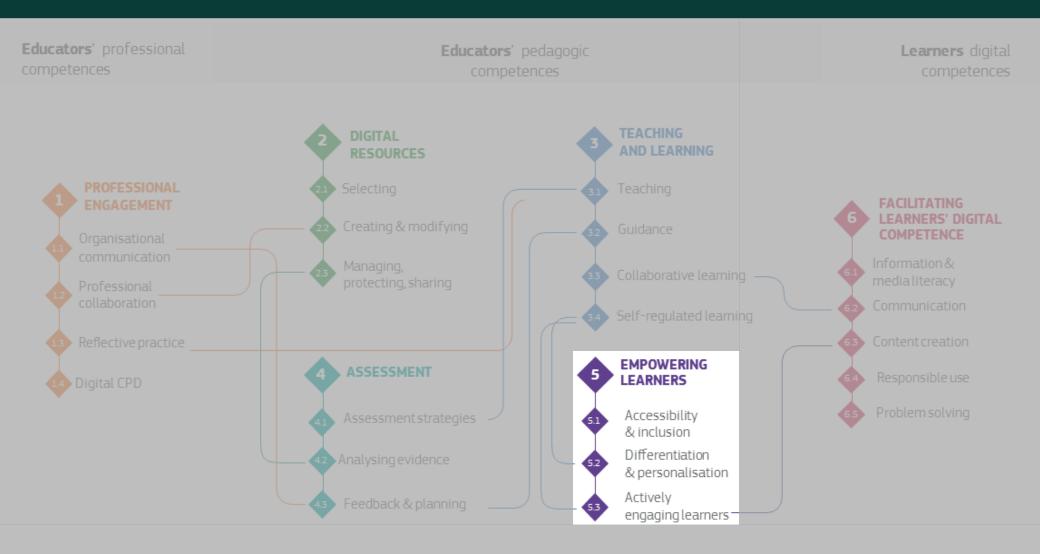
If student collaboration and self-regulated learning become the norm, new forms of providing guidance and support are needed.



To use digital technologies and services to enhance the interaction with learners, individually and collectively, within and outside the learning session. To use digital technologies to offer timely and targeted guidance and assistance.



Opportunities & Challenges



Digital age learning puts the learner at the centre

Opportunities







To use digital technologies to address learners' diverse learning needs, by allowing learners to advance at different levels and speeds, and to follow individual learning pathways and objectives.

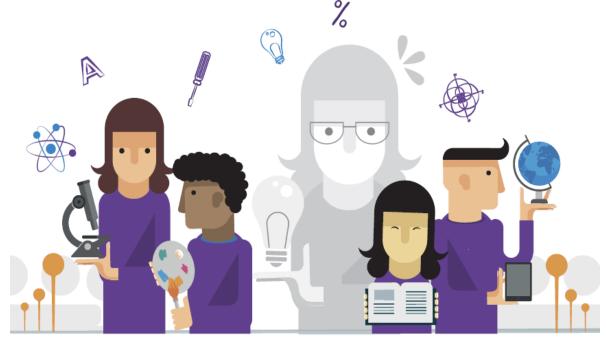


Opportunities





To use digital technologies to



foster learners' active and creative engagement with a subject matter. To use digital technologies within pedagogic strategies that foster learners' transversal skills, deep thinking and creative expression. To open up learning to new, real-world contexts, which involve learners themselves in hands-on activities, scientific investigation or complex problem solving, or in other ways increase learners' active involvement in complex subject matters.



Challenges





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To ensure accessibility to learning resources and activities, for all learners, including those with special needs. To consider and respond to learners' (digital) expectations, abilities, uses and misconceptions, as well as contextual, physical or cognitive constraints to their use of digital technologies.

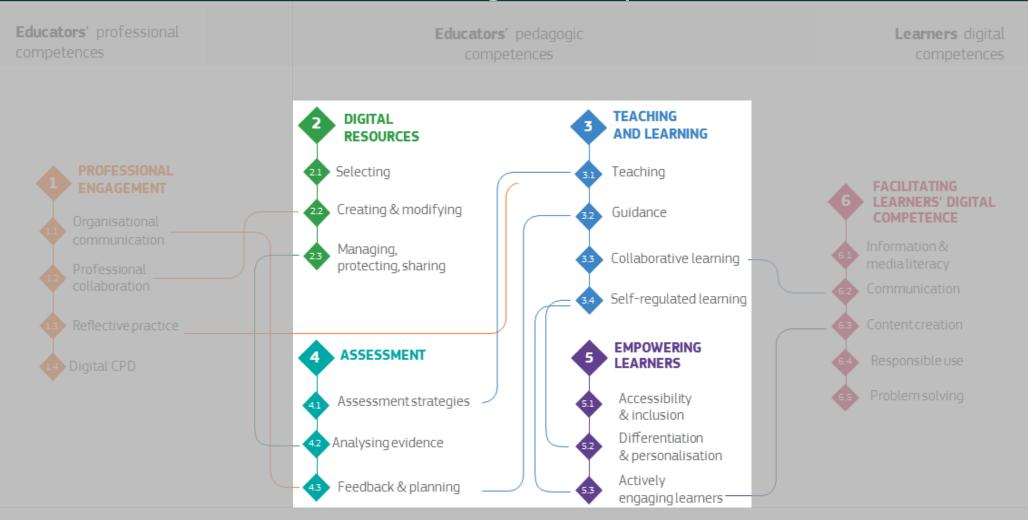
Widening the scope

A holistic view on educators' digital competence

Educators' professional Educators' pedagogic Learners digital **TEACHING AND LEARNING RESOURCES** Teaching **FACILITATING** Guidance Collaborative learning Self-regulated learning **EMPOWERING ASSESSMENT LEARNERS** Accessibility & inclusion Differentiation & personalisation Actively engaging learners:

Widening the scope

A holistic view on educators' digital competence



Digital Resources

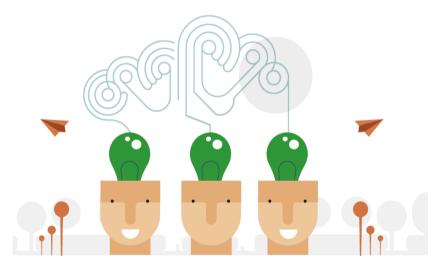
Finding, creating and sharing resources that are tailored to the learning context and individual learners' needs







Selecting digital resources



Managing, protecting and sharing digital resources

Creating and modifying digital resources

Assessment

Innovatively using the power of digital strategies for enhancing assessment and feedback **ASSESSMENT** Assessment strategies Assessment strategies Analysing evidence Feedback & Planning Feedback and Planning Analysing evidence

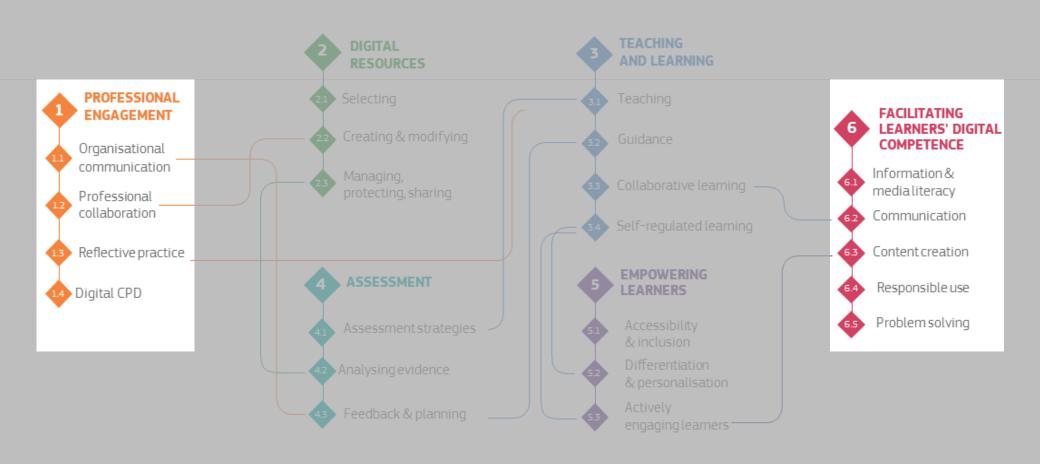
European Commission

Widening the scope further Life in the digital age

Educators' professional competences

Educators' pedagogic competences

Learners digital competences



Professional engagement

Opening up communication and collaboration strategies, within and beyond the organisation









Organisational Communication

PROFESSIONAL ENGAGEMENT





Reflective practice



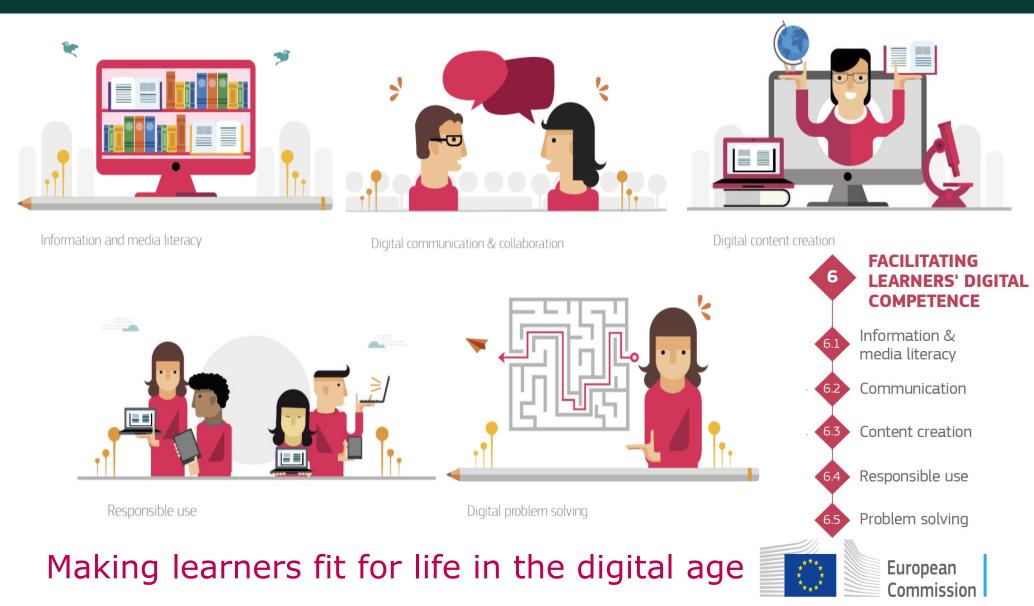
Digital Continuous Professional Development (CPD)

Enhancing and developing pedagogical competence





Facilitating Learners' Digital Competence

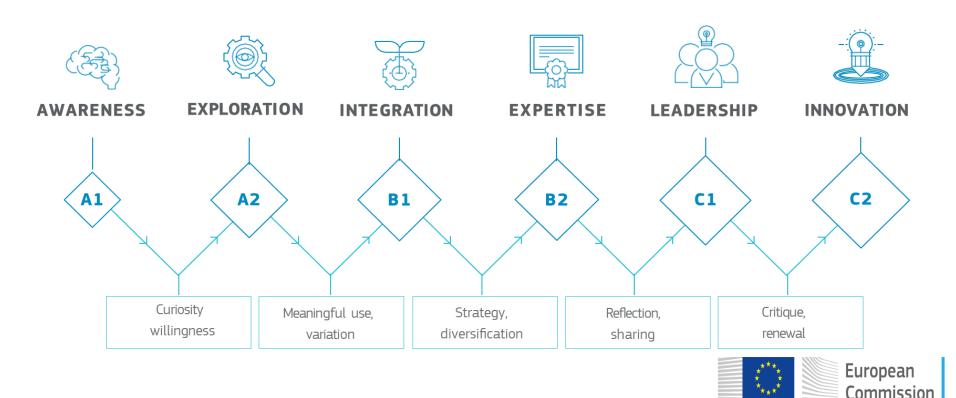


How can teachers develop their educator-specific digital competence?



Competence Progression

- → Educators' professional digital competence development is a continuous endeavour – no matter which stage they are at
- → Different levels mean different focus areas and strategies for professional development



Competence levels

Newcomer (A1)



Newcomers (A1)

Have not really started engaging with digital technologies for teaching and learning.

Explorer (A2)



Explorers (A2)

Already use digital technologies in some parts of their professional practice. However, they still need to develop a more comprehensive and consistent approach.

Integrator (B1)



Integrators (B1)

experiment with digital technologies in a variety of contexts and for a range of purposes, integrating them into many of their practices.

Expert (B2)



Leader (C1)



Pioneer (C2)



Experts (B2)

purposefully select digital technologies for particular situations, and try to understand the benefits and drawbacks of different digital strategies.

Leader (C1) have a consistent and comprehensive approach to using digital technologies. They rely on a broad repertoire of digital strategies from which they choose the most appropriate for any given situation.

Pioneers (C2) experiment with highly innovative and complex digital technologies and/or develop novel pedagogical approaches.



DigCompEdu Check-In Tool

An Online Survey-based tool for educators to self-assess and reflect

- 3 versions:
 - Teachers in school education incl. VET;
 - Academics in higher education;
 - Lecturers in adult education
- 22 items with 5 answer options
- One item per DigCompEdu competence
- Answer options arranged by level of engagement with digital technologies

Detailed Feedback

- Total score mapped on DigCompEdu competence levels
- Detailed feedback on each item
- Concrete advice

Check it out:

- For educators in school education: https://ec.europa.eu/eusurvey/runner/DigCompEdu-S-EN
- For educators in higher education: https://ec.europa.eu/eusurvey/runner/DigCompEdu-H-EN
- For educators in adult education: https://ec.europa.eu/eusurvey/runner/DigCompEdu-A-EN

Work in Progress

Join our Community



https://ec.europa.eu/jrc/communities/community/digcompedu-community





Any questions?

You can find me at christine.redecker@ec.europa.eu

https://ec.europa.eu/jrc/digcompedu

