Competences and skills needed for using Gen-AI and OER

Robert Schuwer

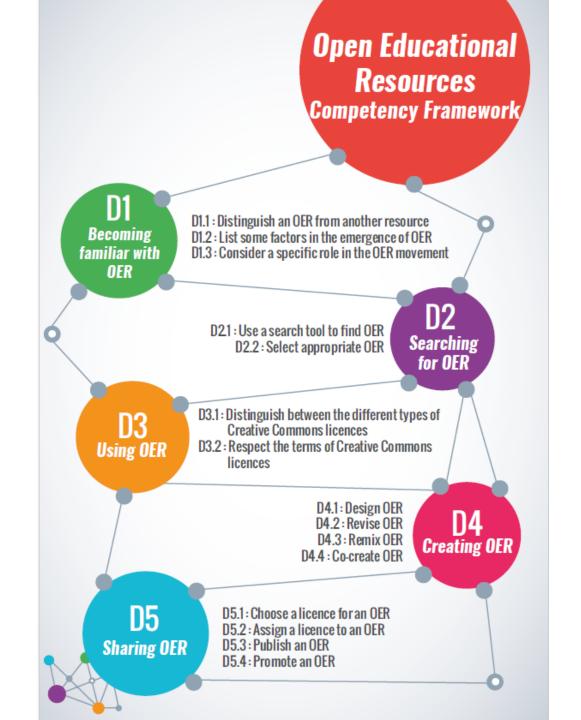




Skills and competences for using OER









Field of competence D4.Creating OER			
Abilities	Capabilities		
	 Produce original or reusable content that can be assembled into a work that may be licensed to become an OER 		
D4.1 : Design OER	 Know the right practices to design resources that take into account the educational and cultural dimensions of the resource, its technical quality and ergonomics as well as basic concepts in order to ensure its discovery and accessibility 		
D4.2 : Revise	 Be able to identify and distinguish a modifiable OER in open format (in particular by ensuring the original design format is available) 		
OER	 Know the different options for adaptation of an OER (translation, sound, illustration, accessibility, contextualization, etc.) 		
	 Know how to create an OER comprising various OER taking into account the specificities of licences and their potential for dissemination 		
D4.3 : Remix OER	 Know how to create an OER comprising various OER and content that is not open within the constraints associated with this type of composite work and specifying the rights associated with the individual content 		
D4.4 : Co-create OER	 Distinguish between the different modes of co- creation in order to use them wisely for the creation of OER 		
	 Identify the contributors involved in the creation of OER by establishing and clearly stating the levels of contributions and intellectual property of each of them 		





Skills and competences for using (Gen-)Al





Framework

- UNESCO effort toward competency frameworks for teachers and students
- Objectives:
 - Teacher: define the knowledge, skills and attitudes that teachers should possess to understand the roles of AI in education and utilize AI in their teaching practices in an ethical and effective manner
 - Student: articulate the knowledge, skills and attitudes students should acquire to understand and actively engage with AI in a safe and meaningful manner in education and beyond
- Publishing foreseen in Digital learning week 2024





Aspects	Progression			
	Acquisition	Deepening	Creation	
Human-centred Mindset	Benefit-risk analysis	Human accountability	Al society responsibility/ Social human agency	
Ethics of AI	Ethical principles	Safe and responsible uses	Co-creating commons of AI ethics	
Al Foundations & Applications	Basic AI technique and applications	Application skills	Creating with AI	
Al Pedagogy	Al-assisted teaching	Al-pedagogy integration	AI-enhanced pedagogical transformation	
Al for Professional Development	AI as enabler of lifelong professional learning	AI to enhance organizational learning	Al to support professional transformation	





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Generic





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Creating





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Educational use





Combining both frameworks for a teacher





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Becoming familiar with OER

D1.1 : Distinguish an OER from another resource

D1.2 : List some factors in the emergence of OER D1.3 : Consider a specific role in the OER movement

D21: Use a search tool to find OER D2.2 : Select appropriate OER

D2 Searching for OER

D3 Using OER D3.1: Distinguish between the different types of Creative Commons licences

D3.2: Respect the terms of Creative Commons licences

D4.1: Design OER D4.2: Revise OER

D4.3: Remix OER

D4.4 : Co-create OER

Creating OER

D5 Sharing OER

D5.1: Choose a licence for an OER

D5.2 : Assign a licence to an OER D5.3 : Publish an OER

D5.4: Promote an OER

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OER Consultancy

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Colophon

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References

Used in this presentation and for further reading

Bozkurt, A. (2023). Generative AI, synthetic contents, open educational resources (OER), and open educational practices (OEP): A new front in the openness landscape. *Open Praxis*, 15(3), 178-184. https://doi.org/10.55982/openpraxis.15.3.579

Buist-Zhuk, M., Beldhuis, H., Schuwer, R., & Täuber, S. (2023). *Recognition & Rewards for working with Open Educational Practices and Open Educational Resources*. https://www.robertschuwer.nl/download/RecRewEN.pdf.

Coolidge, A., McKinney, A., & Shenoy, D. (n.d.). *Tenure and promotion. DOERS3*. https://www.doers3.org/tenure-and-promotion.html

International Organisation of La Francophonie (IOF) (2016). *Open Educational Resources Competency Framework OER*. https://unesdoc.unesco.org/ark:/48223/pf0000266159 eng

Miao, F., & Holmes, W. (2023). Guidance for generative AI in education and research. UNESCO, Paris. https://unesdoc.unesco.org/ark:/48223/pf0000386693

UNESCO (4 December 2023). Al competency frameworks for school students and teachers. *UNESCO*. https://www.unesco.org/en/digital-education/ai-future-learning/competency-frameworks



