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**pen  
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ENCORE Educathons Junior Ed  
Validated by ENCORE Team

# Our Goals



- Understand the concept of Open Educational Resources (OER) and their role in education.
- Learn about the benefits of OER for faculty and students.
- Explore sources and tools to find OER.
- Understand the licenses and copyrights associated with OER.
- Learn how to effectively use OER in teaching and learning.

# OPEN EDUCATIONAL RESOURCES



techniques materials tools used for  
**TEACHING + LEARNING + RESEARCH**  
SHARED UNDER PUBLIC DOMAIN  
OR OPEN LICENSE FOR RE-USE

**creative commons**



## What are OERs?

«a way of carrying out education, often using digital technologies. Its aim is to widen access and participation to everyone by removing barriers and making learning accessible, abundant, and customisable for all. It offers multiple ways of teaching and learning, building and sharing knowledge. It also provides a variety of access routes to formal and non-formal education, and connects» (Opening up Education: A Support Framework for Higher Education Institutions, 2016)

OERs can include any type of resource, such as a photo, an image, an animation, a podcast, a text or a video, up to textbooks (OpenTextbooks), as long as are educational resources with some educational relevance for teaching and self-learning (Nascimbeni, 2020).

# Open Education on the European Agenda

The OpenEdu project was conceived as a response to the European Commission's Communication "Opening up Education: Innovative teaching and learning for all through new technologies and open educational resources". The results of the project also contribute to priority 3 of the 6 new priorities of the Education and Training 2020 (E&T2020) monitoring programme:

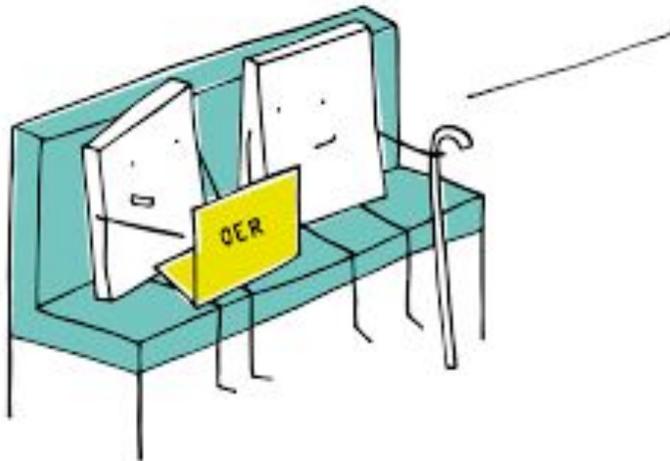
*«Open and innovative education and training, including by fully embracing the digital era»\**

Open Education is an umbrella term under which different meanings of open education can be accommodated.

It goes beyond Open Educational Resources (OER) and open research findings to embrace teaching and collaboration between individuals and institutions.\*

Open Education (OE) is not just about  
(or not only) MOOCs and OER.

It's about the democratic openness of education,  
the modernization and innovation of our systems  
higher education in Europe,  
through the use of digital technologies.



(Steger, 2018)

\*(EU Science HUB, <https://joint-research-centre.ec.europa.eu/what-open-education>)

# Importance of OER

The use of digital technologies for teaching and learning is no longer limited to open universities or virtual universities, but has spread to all types of institutions, both more traditional and cutting-edge.

- First, it can help reduce or eliminate barriers to education (e.g., cost, geographical differences, time, entry requirements). This would give learners the opportunity to upgrade or retrain at little or no cost and in a flexible way. Secondly, it supports the modernisation of university education in Europe. Finally, it opens up the possibility of creating a bridge between non-formal and formal education.

This can only happen if stakeholders fully explore ways to support open educational practices: dialogue should be sought to form a common vision for the openness of education in Europe.



# Importance of OER



Open Education around the world - EU Science Hub  
(<https://www.youtube.com/@JRCaudiovisuals> )



### Retain

You can keep the work forever



### Reuse

You can use the work for your own purpose



### Revise

You can adapt, modify, or translate the work

## The 5 R's of Open Education

# WHAT IS AN OPEN EDUCATIONAL RESOURCE (OER)?

*"For Free and Without Requesting Permissions"*



### Remix

You can combine it with another resource to make a new work



### Redistribute

You can share the work with others

"The idea behind OERs is that there are many resources that often remain closed within the educational environments in which they were created, and that instead could be made freely available through the network, thus allowing people who have not been able to access higher education to take advantage of exceptional educational opportunities" (Tosato & Raffaghelli, 2011, p. 89)



## **The 2019 UNESCO Recommendation on Open Educational Resources (OER)**

Supporting universal access to information  
through quality open learning materials

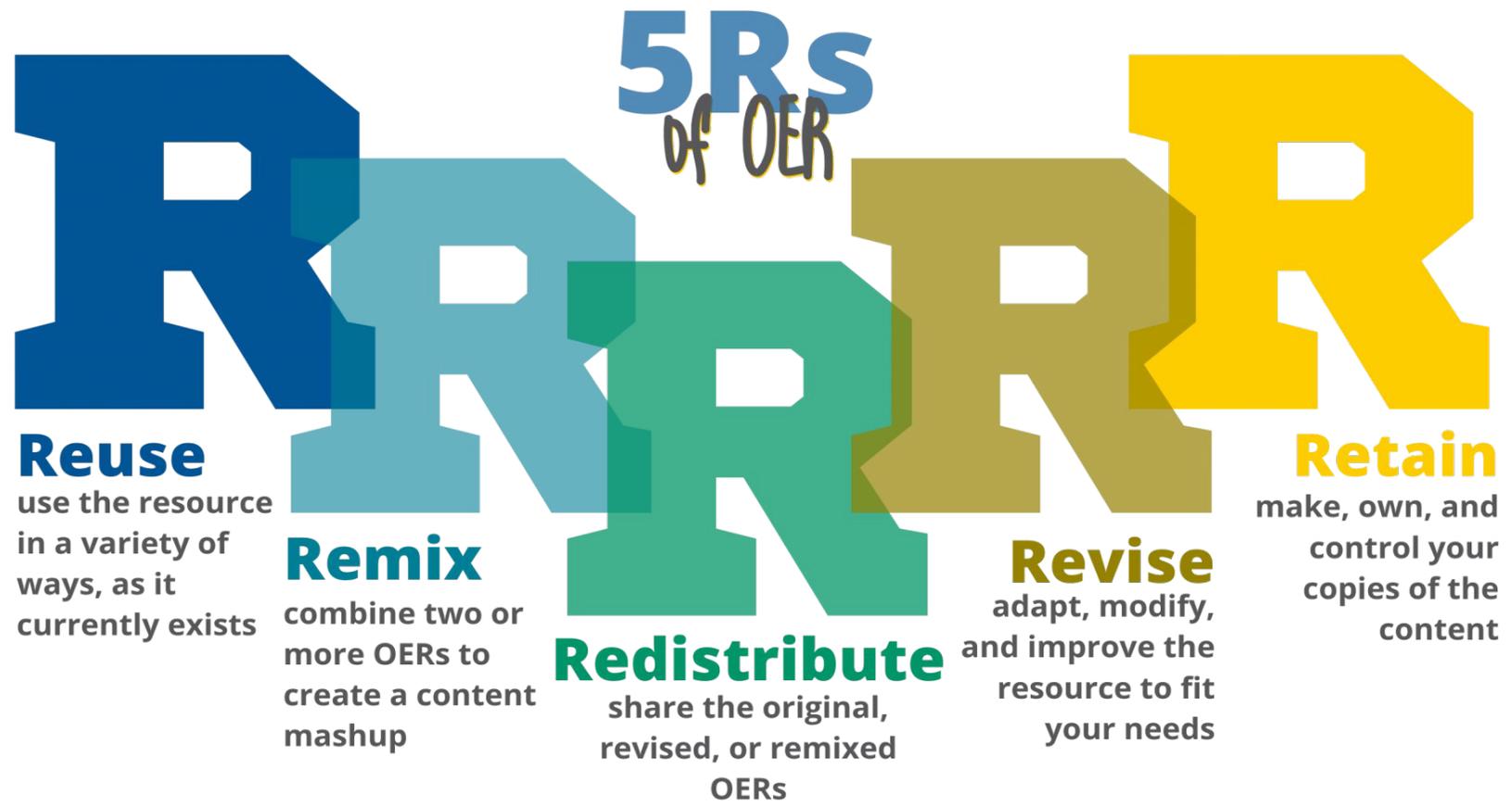


## **OER and UNESCO**

UNESCO is the only UN agency to have a specific programme dedicated to Open Educational Resources (OER).

The term "Open Educational Resource" was first coined in 2002 during a forum organized by UNESCO on "Open CourseWare in Higher Education". In November 2019, the 40th UNESCO General Conference adopted UNESCO's OER Recommendation, which constitutes the only international framework for setting standards in this area worldwide.





The most widely used classification globally regarding the characteristics that make a resource an OER is based on David Wiley's 2014 5R Framework, which argues that to be considered an OER, a resource must either be in the public domain or released under a license that allows anyone to do five things (Wiley 2014).

The 5R approach has had the merit, thanks also to the authoritativeness of its author, of providing a shared definition of what is meant by OER.

**R**

reuse: Use the original, revised or remixed copy publicly, for example on a website, or in a classroom presentation.

**R**

remix: Combine an original or revised copy of the asset with other existing material to create something new.

**R**

redistribute: Share copies of your asset with others, such as online or sending it to a colleague.

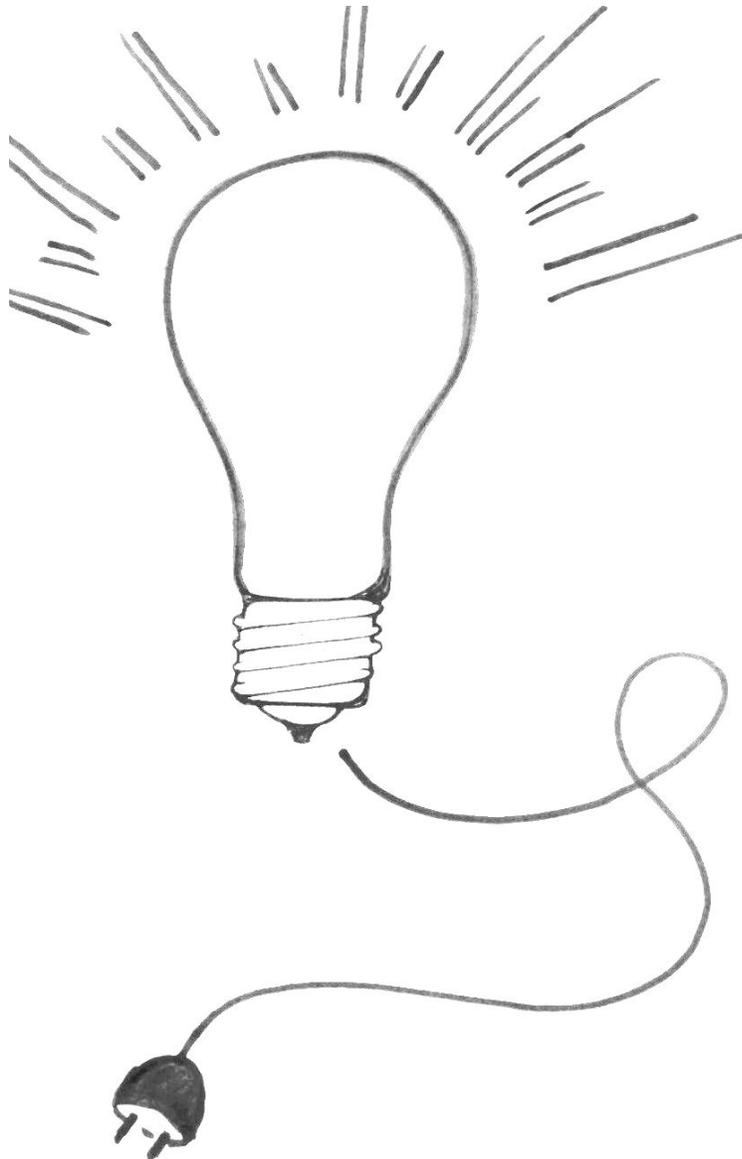
**R**

revise: Modify and adapt a copy of the asset, for example, by translating it into another language.

**R**

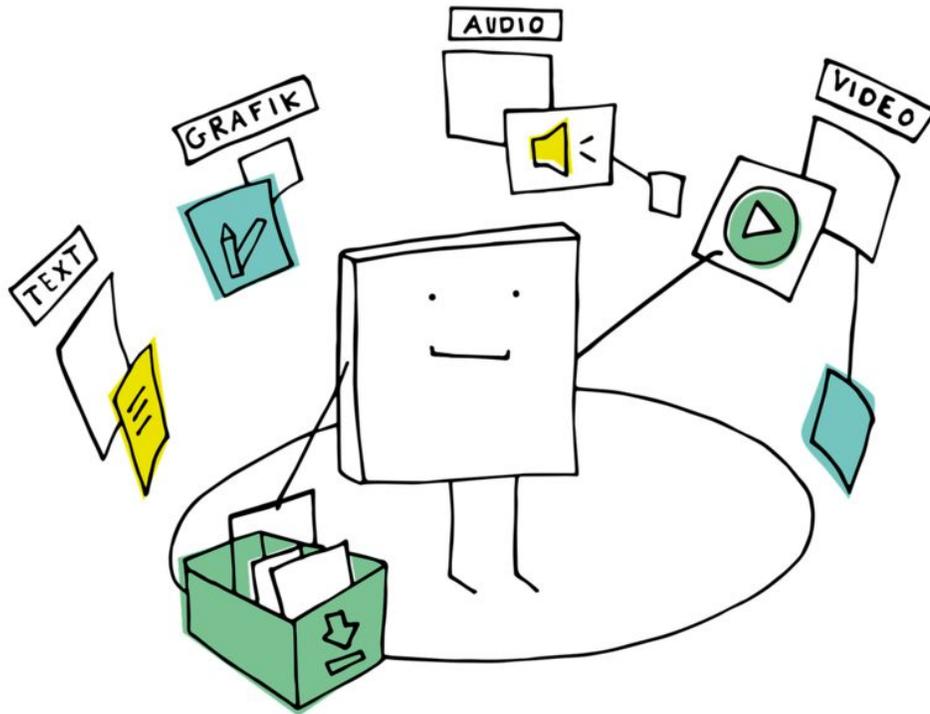
retain: Keeping and owning a copy of the asset, for example, by downloading a copy to your computer.

## List of tools to create OER



- OSS Watch provides tips for selecting open source or purchasing free or open software.
- SchoolForge and SourceForge allow you to find, create, and publish open software. SourceForge, for example, has millions of downloads every day.
- Wikipedia is an online, free and collaborative encyclopedia. Anyone can contribute to existing entries or create new ones.
- The Open Source Education Foundation and the Open Source Initiative, and other organizations like these, help spread knowledge.
- Creative Commons: is the non-profit organization Creative Commons, founded by Lawrence Lessig, at the origin of the Creative Commons licenses. These are licenses that allow the author of a work to choose the rights they wish to assign or not to a given work.

# Sources of OER



1. OER Repositories: There are a number of online repositories dedicated to OER, such as the OER Commons website, MIT OpenCourseWare, and even Wikipedia.
1. Universities & Educational Institutions: Many universities and institutes offer free online courses and open learning materials.
1. Collaborative Projects: Groups of educators often work together to create and share OERs. For example, the Wikimedia Commons project offers a wide range of free images.

# Licenses and Copyrights

OERs are often released under open licenses, such as Creative Commons, which allow users to use, modify, and share the material.

However, it is important to comply with the conditions specified in the license (BY – Attribution; NC - Non-Commercial; ND – No derivative works; SA – Share Alike) when using OER.

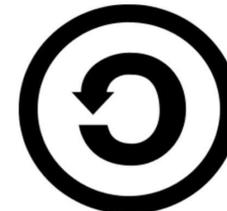
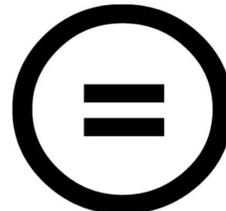


Attribution

Noncommercial

Non- Derivatives

Share alike



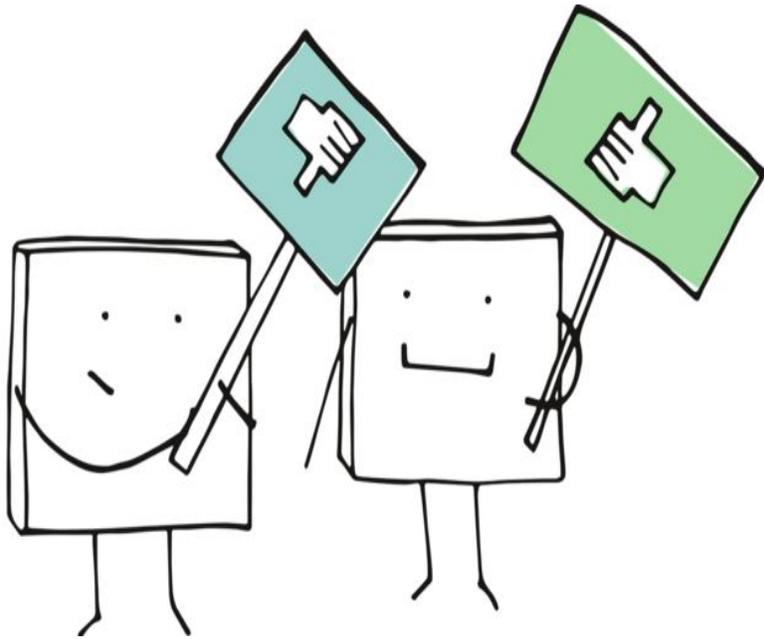
**Compulsory** - Must always **credit** me.

Use it but don't make **money**

Your version must **equal** mine - no changes

If I allow you to change it, **repeat** my CC **licence**

# Importance and Benefits of OER



- **Accessibility:** OERs are accessible to anyone with an internet connection, promoting access to education around the world.
- **Financial Savings:** Educators and students can save significantly on the cost of learning materials.
- **Personalization of learning:** Educators can tailor OERs to the specific needs of their students.
- **Cooperation:** OER encourages sharing and collaboration among educators.
- **Innovation:** Openness of resources promotes innovation in education, enabling new teaching approaches.

## Therefore...

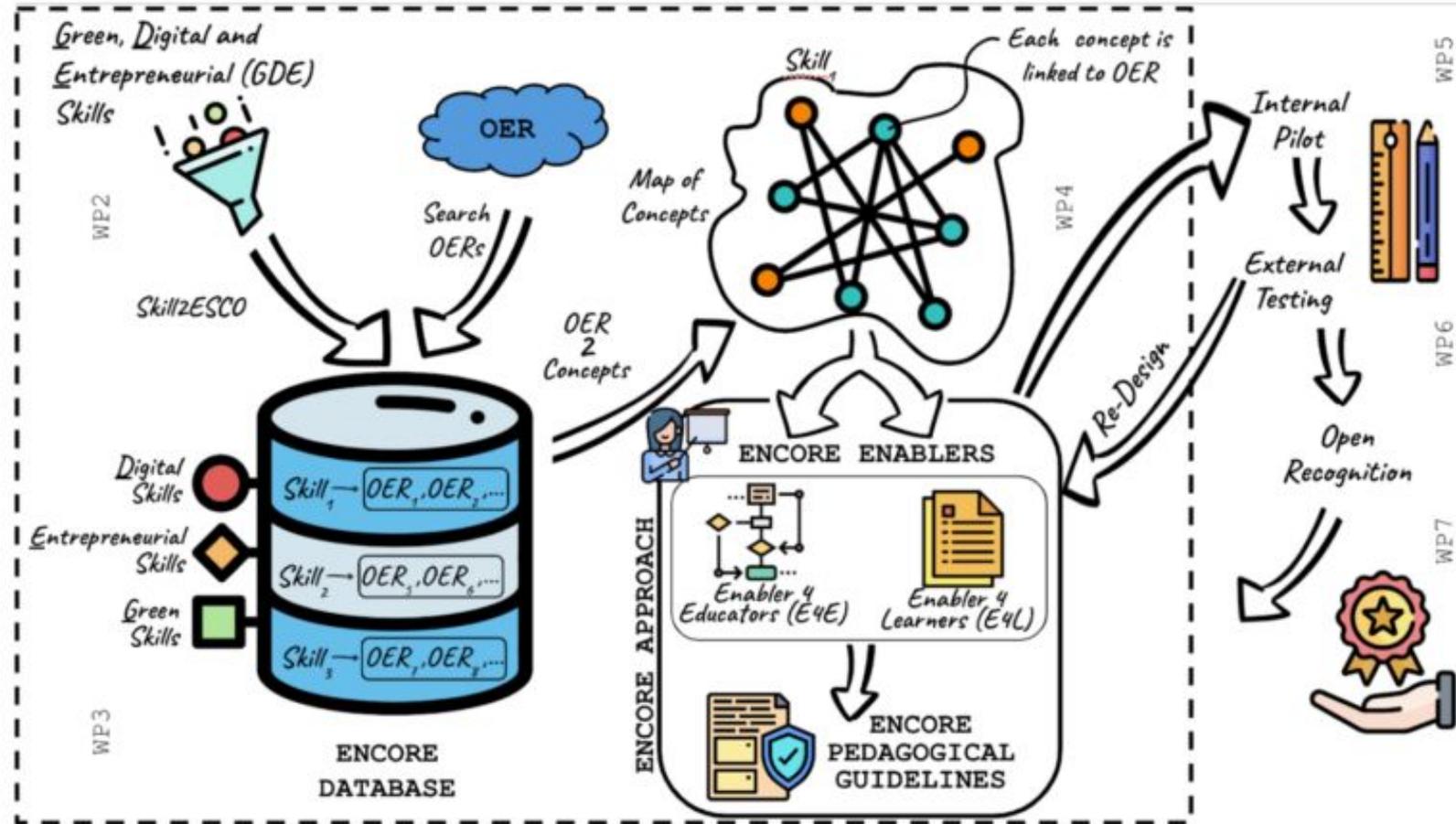
Open Educational Resources are an important tool for democratizing education, allowing anyone to access high-quality educational materials. They promote accessibility, sharing, and collaboration, helping to transform the way we learn and teach.

# THE ENCORE TOOL



Frame the QRcode or  
use the following link:

[ENCORE](#)



A specific focus on Green, Entrepreneurial and Digital Skills

## HANDS ON :)

Now try to navigate the ENCORE database through ENCORE platform and search for some OERs.

Just try browsing the platform, discovering its features and potential.

Happy browsing!

## CLAIMING AN OPEN BADGE

To claim an Open Badge (Open Recognition)



Frame the QRcode or use  
the following link:  
[Open Badge Recognition -  
OREC - Reconnaitre](#)

## Useful Bibliography

- Nascimbeni, F. (2020). *Open Education. OER, MOOC e pratiche didattiche aperte verso l'inclusione digitale educativa*. Media e tecnologie per la didattica - Peer Reviewed. <https://series.francoangeli.it/index.php/oa/catalog/book/575>
- Ossiannilsson, E., Zhang, X., Wetzler, J., Gusmão, C., Aydin, C. H., Jhangiani, R., Glapa-Grossklag, J., Makoe, M., Harichandan, D. (2020). From Open Educational Resources to Open Educational Practices. *Distances et médiations des savoirs*, 31. <https://doi.org/10.4000/dms.5393>
- Farrow, R., Pitt, R., de los Arcos, B., Perryman, L.A., Weller, M., McAndrew, P. (2015). Impact of OER use on teaching and learning: Data from OER Research Hub (2013–2014). *British Journal of Educational Technology*, 46(5), pp. 972-976. <https://doi.org/10.1111/bjet.12310>
- Raffaghelli, E. J. (2014). Teachers' creativity throughout professional life: A model based on oer cycle. *Elearning*, 36. [https://www.researchgate.net/publication/260747866\\_Teachers%27\\_creativity\\_throughout\\_professional\\_life\\_A\\_model\\_based\\_on\\_oer\\_cycle](https://www.researchgate.net/publication/260747866_Teachers%27_creativity_throughout_professional_life_A_model_based_on_oer_cycle)
- Raffaghelli, J. (2014). Keeping on doing what we do better or engaging in transformation? Achieving professional development through the usage of open educational resources. *Formazione & Insegnamento*, 9(3 Suppl.), 75–102. Retrieved from <https://ojs.pensamultimedia.it/index.php/siref/article/view/906>
- Van Allen, J. and Katz, S. (2020). Teaching with OER during pandemics and beyond. *Journal for Multicultural Education*, 14(3/4), pp. 209-218. <https://doi.org/10.1108/JME-04-2020-0027>
- Open Educational Resources (26 Ottobre 2023). Wikipedia. [https://en.wikipedia.org/wiki/Open\\_educational\\_resources](https://en.wikipedia.org/wiki/Open_educational_resources)
- Wiley, D., Bliss, T.J., McEwen, M. (2014). Open Educational Resources: A Review of the Literature. In Spector, J., Merrill, M., Elen, J., Bishop, M. (eds) *Handbook of Research on Educational Communications and Technology*. Springer. [https://doi.org/10.1007/978-1-4614-3185-5\\_63](https://doi.org/10.1007/978-1-4614-3185-5_63)



## Enriching Circular use of OER for Education

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