

Learning science outside the classroom for a sustainable future

PROJECT PROFILE

Duration: September 1st, 2021 – February 29th, 2024

Overall budget: € 1 598 748.75

EU contribution: € 1 598 748.75

Topic(s): SwafS-24-2020 - Science education outside the classroom

Horizon 2020 project



CONSORTIUM





















Why OTTER?

Interest in science, technology, engineering arts, and mathematics (STEAM) subjects among young people is in decline¹.

Students do not chose university studies in STEAM either because **they do not see the relevance of science to their lives** or they do not see themselves as future scientists².





Why OTTER?

However, science learning plays an important part in the foundation for lifelong learning across all levels, since it includes the development of scientific skills that are transferable in other subjects, as well as observation, reasoning, co-participation and argumentation.



OTTER project

In OTTER project, we aim at increasing the interest in scientific topics among young people through Education Outside the Classroom (EOC) methods and pedagogies.

Furthermore, we want to understand how EOC can help improve the acquisition of **scientific knowledge** and **transferable skills*** in students, specifically in the field of environmental sustainability.

* cognitive, affective, social / interpersonal and physical / behavioural



What is Education Outside the Classroom?

EOC methods are out-of-school settings such as **outdoor activities**, **fieldtrips**, **community** and **botanical gardens**, **museums**, **zoos**, **scientific centres**, **community settings**, **the internet**, **enhanced digital learning** and **media**, that keep students healthy both physically and mentally, and that have proven to positive effects in them such as:

- Cognitive (knowledge and understanding)
- Affective (attitudes and feelings)
- Social / interpersonal (such as empathy, team work and communication skills)
- Physical / behavioural (civic, moral and ethical skills).



How do we achive our mission?



© Photo: Mikhail Nilov

EOC HUBS

Connecting experts from Spain, Hungary, Ireland, Finland and multi-country



© Photo: Jens Johnsson

GUIDELINES

tools to implement the
OTTER Labs



© Photo: Lukas from Pexels

OTTER LABS

Training Educators on EOC methodologies and testing our pedagogy with a focus on sustainability





EOC HUBS

We will strengthen **EOC networks** within Europe, connecting specifically experts from four different regions within the continent (Finland, Hungary, Ireland and Spain)





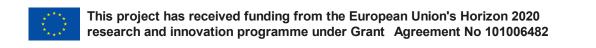




and one international network for all other countries.











OTTER Labs

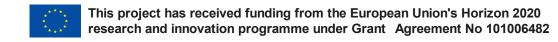
We will work together with teachers from schools to train them on EOC pedagogies.

Together with them, we will implement an EOC programme through our OTTER labs for kids from primary and secondary school.

OTTER Labs

We will focus on plastic waste and recycling as a common theme to teach STEAM subjects (science, technology, engineering, arts and mathematics) in the EOC programme.







Post - OTTER Labs

We will analyse the effect our programme has on the science performance of participating students, including their levels of sophisticated consumption* and scientific citizenship**.

* **Sophisticated consumption**: A consumer who has the knowledge and impetus to purchase a product not just based on its price, but on other factors such as its environmental impact or the ethicality of the production process.

** **Scientific citizenship**: A citizen who has a sufficient level of scientific knowledge to enable them to make informed decisions, being open to other points of view and revising their individual preference in the light of information and other arguments.





We will consider different

geographical locations and gender

differences of students who

participated in the pilot schemes and
those who were taught through formal
educational methods.



Guidelines

We will identify methods for measuring and accrediting the recognition of Education Outside the Classroom as a method to acquire relevant knowledge and skills

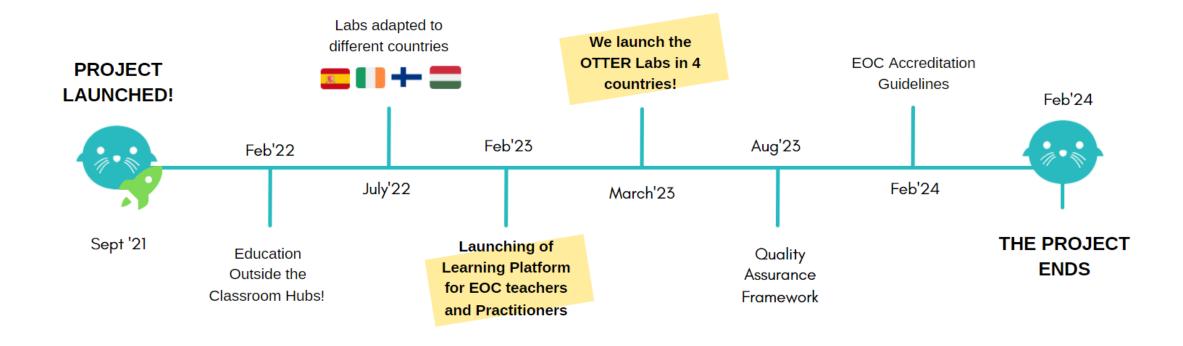


Toolkit

We will create the Learning Platform with resources for teachers and EOC practitioners to replicate OTTER across Europe!



Timeline







How can I get involved?

- ▶ If you are a teacher or an EOC practitioner, join a Hub!
- ➤ If you are a **parent** living in Spain, Hungary, Finland or Ireland and would like your kid's school to participate, get in touch.
- If you are a student from anywhere in the world, follow us in our social media!



How can I get involved?

- > We also want **policy makers joining us** to help us push EOC methods as an accredited activity!
- Are you a researcher looking to collaborate? Contact us!
- > Are you an organization / museum/ centre working with sustainability? Join the Hub!



FOLLOW US!



@OTTER EU



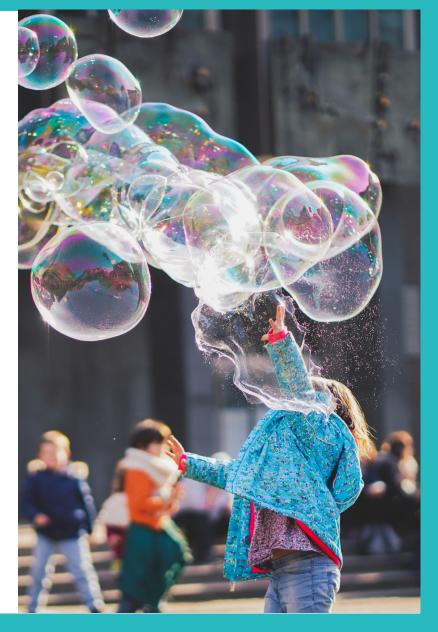
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https://otter-project.eu/



Coming soon!









THANK YOU!



