

**2021-10-26**  
**Press Release**

## **RE-OPEN: the European Universities network to promote the setting up of Remote laboratories for teaching Renewable Energies**

The European network RE-OPEN (REmote labORatories for Practical Experiments on renewable energies at EU uNiversities), co-financed by the Erasmus+ Programme, has successfully concluded the second meeting (19, October 2021) to monitor the project and start defining the methodology to implement the standardized remote laboratories at EU universities.

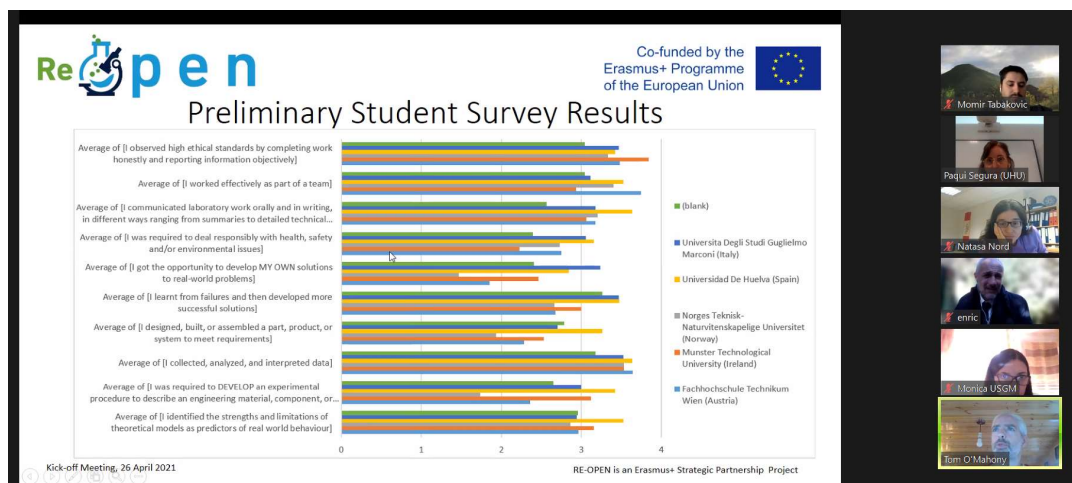
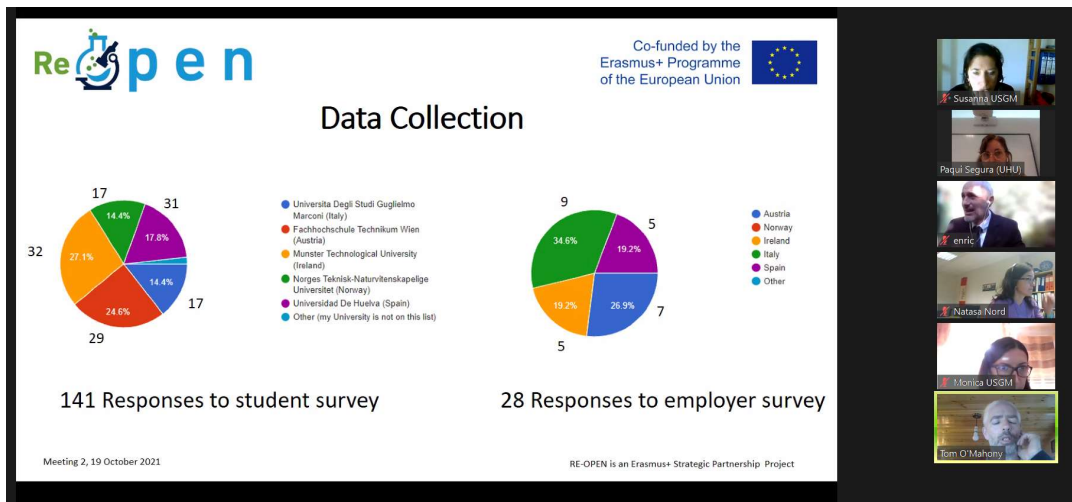
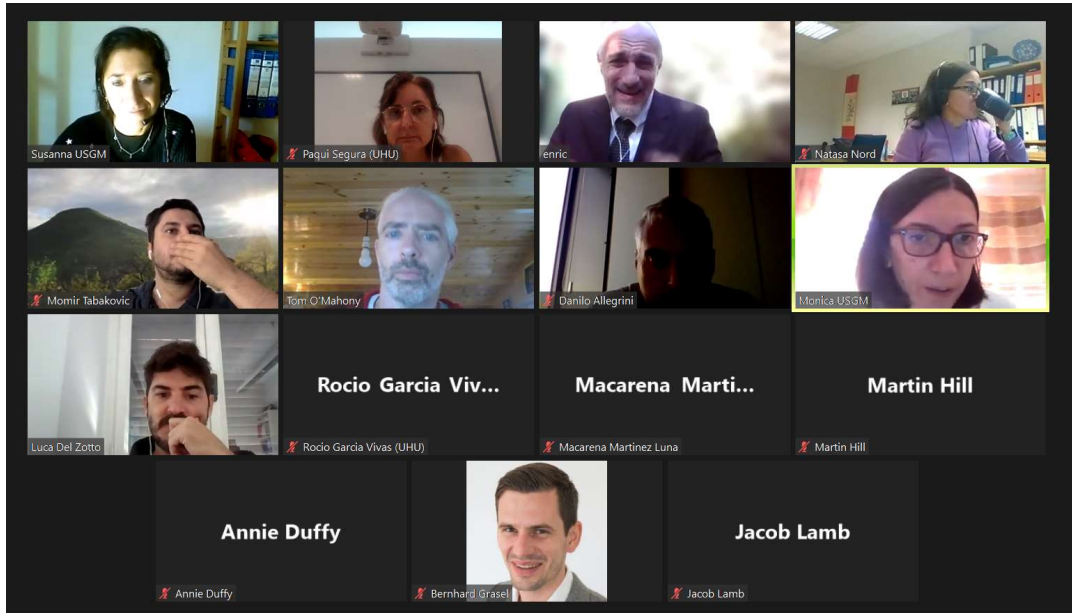
During this meeting, a review of best practices and partners experiences in using hands-on, virtual and remote labs in STEM with a specific focus on renewable energy has been presented. A total of 140 responses from students and 28 from employer surveys have been analysed.

Data collection reflects students from all EU participants institutions agree that experimental practices are useful to identify the strengths and limitations of theoretical models as predictors of real-world behaviour. Additionally, surveys results show that students, independently their mother country, work effectively as part of a team when they are at the laboratory.



The next project activities are: mapping of the hands-on/remote labs in EU universities, designing standard ICT-based learning solutions and pedagogical models of remote laboratories (Arduino board, LabView software) and open access-learning management system (LMS) and developing experimental modules on renewable energy. The developed methods and modules will all be tested and validated in each partner university.

RE-OPEN project will run for 2 years (2021-2023) and is made up of a consortium of EU universities and companies. There are 5 participating universities from 5 Member States, specialized in training in energy technologies that have already adopted innovative training methodologies. The participating EU universities are: Università degli Studi Guglielmo Marconi from Italy as coordinator, Fachhochschule Technikum Wien from Austria, Munster Technological University from Ireland, Norwegian University of Science and Technology from Norway, the University of Huelva from Spain. Additionally, the project includes the ICT company VJ Technology from Italy.

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## IO2. Supercapacitor remote laboratory.


Laboratory test: SC Power bank charging



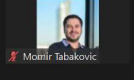
Programmable power source  
 $V_{SC} = 12 \text{ VDC}$   
 $I_{SC} = 50 \text{ A}$

Follow-up Meeting, 19 October 2021 RE-OPEN is an Erasmus+ Strategic Partnership Project

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