



Robotics in aquatic environments to promote STEM and environmental awareness

ABOUT- Scope and partnership

The RoboAquaRIA project aims to address climate crisis and foster environmentally sustainable behaviors in school communities with the use of Educational aquatic robots.

The project is in line with the horizontal priority “*Environment and fight against climate change*” and the priority “*Addressing digital transformation through the development of digital readiness, resilience and capacity*”.

The consortium of the project is a collaboration among universities (Marche Polytechnic University-Leader, University of Aegean, University of Zagreb), educational & research centres (CARDET, Future in Perspective, INNOVADE, Ancybernetics) and schools (IC Solari, Primary school Osnovna škola Tituša Brezovačkog, ICS Largo Cocconi).

PROJECT RESULTS

To achieve its scope, the project will develop the following outcomes:

1. Methodological Framework for the Pilots, Guidelines for the Teachers and Validation; a report based on the design of pedagogical approaches that can be used to cultivate learner’s sustainability competences.
2. Toolkits and Lesson topics; guidelines to direct educators on how to build the RoboAquaRIA and implement an educational curriculum incorporating robotics and green skills.
3. E-learning platform and Open Educational Resources (OERs); an open space with free pedagogical resources and tools.
4. Policy Recommendations; a collection of lessons learned, best practices, challenges and policy suggestions.

LTTA & TPM & Multiplier Event

The project’s Learning, Teaching, and Training Activity (LTTA) took place in Ancona from July 22 to 26, 2024, alongside the Transnational Partner Meeting (TPM 2) on 22nd of July and a Multiplier Event on 24th of July.

Representatives from partner organizations and schools discussed progress on Work Packages 2, 3, and 4 and dissemination under WP5. The LTTA also included teachers from non-partner schools, such as Cyprus and Ireland, who were trained on using the dry and wet kits in classrooms.

The week provided valuable training and strengthened collaboration to advance the project’s goals.



CURRENT WORK & NEXT STEPS

The MOOC and Toolkit (lesson plans) are now complete, and the consortium is currently focused on the e-development and translation of these materials into partner languages. The next steps include conducting piloting in schools, which will run until April 2025, to ensure the resources are effectively implemented and meet the needs of educators and students across all partner countries.

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