

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:

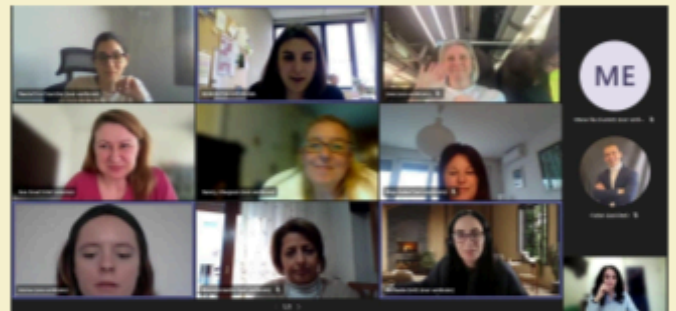
- Methodological Framework for the Pilots, Guidelines for the Teachers and Validation; a report based on the design of pedagogical approaches that can be used to cultivate learner's sustainability competences.
- Toolkits and Lesson topics; guidelines to direct educators on how to build the RoboAquaRIA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

PARTNER MEETING

The project's third online meeting was held on the 14th of March 2024.

Representatives from all partner organizations, institutes, and schools attended the meeting and discussed the progress and next steps of Work Packages 2, 3, and 4.

The meeting successfully highlighted critical focus areas for each work package, setting the stage for significant milestones in the project. Stay tuned for updates on our next meeting and LTTA in Ancona on the 22nd to 26th of July 2024.



CURRENT WORK & NEXT STEPS

During the last months, the consortium has been working on the following:

- Virtual toolkit development
- Manual for inside and outside the classroom activities
- Dry toolkit v2
- Validation framework for WP2 KPIs
- Ongoing development and refinement of the project manuals based on WP2 documentation and partner experience
- Finalization of the Validation Framework

The Wet Robotic Kits will soon be ready for testing in national schools, while RoboAquaRIA lesson plans and modules are under development.

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