17.2.4 Collaboration for SDG Best Practice

2024/2025

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) actively contributes to international projects and collaborative research that compare approaches across countries to address the Sustainable Development Goals (SDGs). Through partnerships with universities, research institutions, and international organizations, AASTMT helps develop, exchange, and promote best practices in areas such as sustainable development, climate action, maritime sustainability, innovation, and quality education.

Project: Surveying and Mapping Technology for Smart City (SUMTS)

30 July 2025

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) has officially announced the public release of the comprehensive baseline study for the Surveying and Mapping Technology for Smart City (SUMTS) Project, an important initiative co-funded by the European Union's Erasmus+ Programme. This Project is specifically tailored for academic institutions, policymakers, researchers, and industry stakeholders dedicated to advancing digital transformation within engineering education. Furthermore, it focuses heavily on strengthening academia-labor market collaboration across the Mediterranean region, ensuring that educational outputs align directly with modern workforce demands and technological advancements. The study provides critical insights and strategic data needed to modernize curricula and build resilient, tech-forward learning ecosystems.

Project partners include:

- Epimorfotiki Kilkis Monoprosopietaireia Periorismeni, Greece (Coordinator)
- Universita Degli Studi Dell'aquila, Italy
- Al-Balqa Applied University, Jordan
- Arab Academy for Science, Technology and Maritime Transport, Egypt
- Centre De Calcul El Khawarizmi, Tunisia.

As an output of the project, the baseline study report can be downloaded from:
SUMTS baseline study report



AASTMT Disseminates the Baseline Study of the SUMTS Project (Erasmus+)

Published on AASTMT webpage:
AASTMT Disseminates the Baseline Study of the SUMTS Project (Erasmus+)

Project: Green Maritime Horizons Collaborative Innovation in Ship Engineering and Sustainable Technologies (GEMS-TECH)

3 December 2024

The Arab Academy for Science, Technology and Maritime Transport (AASTMT), through its Innovation and Training Sector in cooperation with the Faculty of Engineering, has secured funding for the Green Maritime Horizons (GEMS-TECH) project under the European Union Erasmus+ Programme. The initiative aims to transform maritime education in Egypt and Kenya by incorporating sustainable maritime practices, green technologies, and water resource protection into academic programs. The project addresses the growing need for professionals equipped with the skills to tackle marine pollution, wastewater management, and the sustainable use of marine and freshwater ecosystems. GEMS-TECH is to develop multidisciplinary academic modules, modernize existing maritime curricula, and introduce Massive Open Online Courses (MOOCs) focused on sustainable water and marine solutions.

The project is aligned with international sustainability frameworks, including the UN Sustainable Development Goals, the EU Green Deal, and the International Maritime Organization's 2050 Decarbonization Strategy. Key objectives include integrating sustainability principles into maritime education, strengthening collaboration between academia and industry, enhancing capacity building for students and professionals, establishing advanced sustainability laboratories, and promoting innovation in marine and water protection technologies.

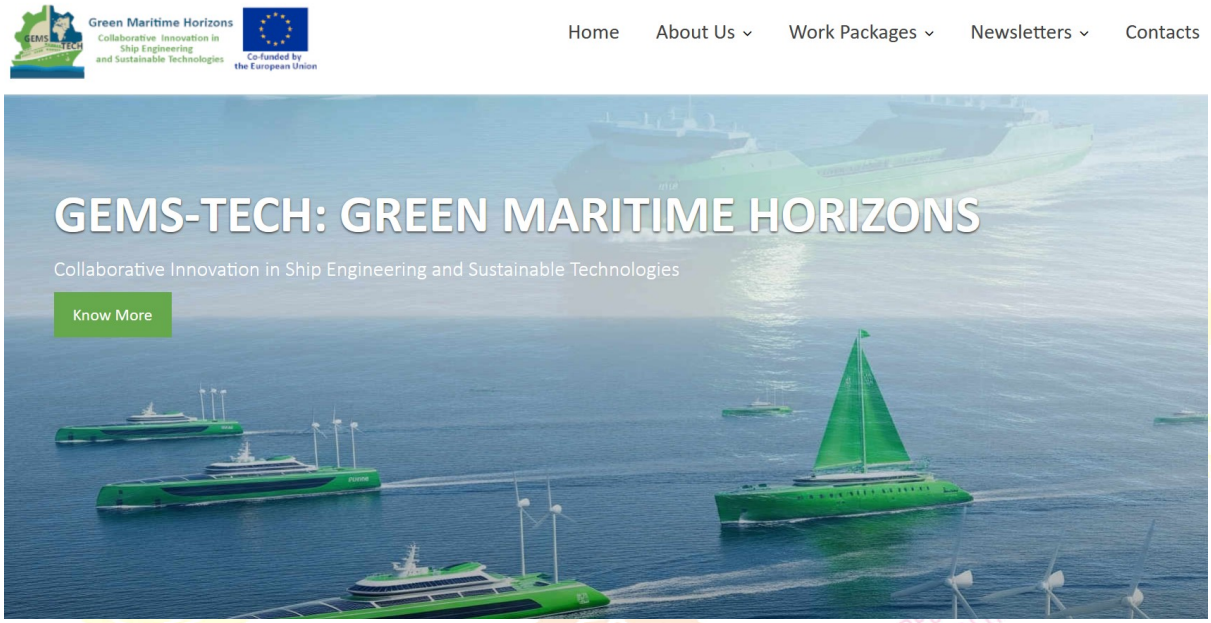
Project partners include:

- University of Telecommunications and Posts (UTP), Bulgaria.
- Institute for Technological Transfer and Innovation (ITTI), Bulgaria.
- Ain Shams University (ASU), Egypt.
- Arab Academy for Science, Technology and Maritime Transport (AASTMT), Egypt.
- Arab Navigation Institute (AIN), Egypt.
- Jomo Kenyatta University of Agriculture and Technology (JKUAT), Kenya.
- Technical University of Mombasa (TUM), Kenya.
- Lake Victoria Basin Commission (LVBC), Kenya.
- University of the Aegean, Creative Thinking Development (CRETHIDEV), Greece.
- Sveuciliste U Zagrebu (University of Zagreb), Croatia.
- Tallinn University of Technology (TalTech), Estonia.

Co-funded by the European Union

GEMS-TECH Green Maritime Horizons: Advancing Sustainable Maritime Education for Clean Water and Ocean Health

Published on AASTMT webpage:
GEMS-TECH Green Maritime Horizons Project



Project homepage:
Gems-tech homepage

Project: Knowledge Exchange in Aquatic Animals Medicine and Ecosystem Health in the Mediterranean and sub-Saharan Regions (AquaVET)

1 December 2024

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) is participating in the AquaVET Project, an Erasmus+ initiative designed to address critical challenges in aquaculture and aquatic veterinary medicine across Egypt and Nigeria. The initiative tackles major regional hurdles, including high fish mortality rates from disease outbreaks, industrial and agricultural environmental pollution, limited research capabilities in aquatic veterinary medicine, and a shortage of specialized professionals in fish health and ecosystem management. By bridging the gap between aquaculture and veterinary sciences, AquaVET aims to cultivate a highly skilled new generation of experts equipped to safeguard aquatic resources.

The project features a diverse international consortium comprising leading institutions from Egypt, Nigeria, Italy, and Croatia. Partners include:

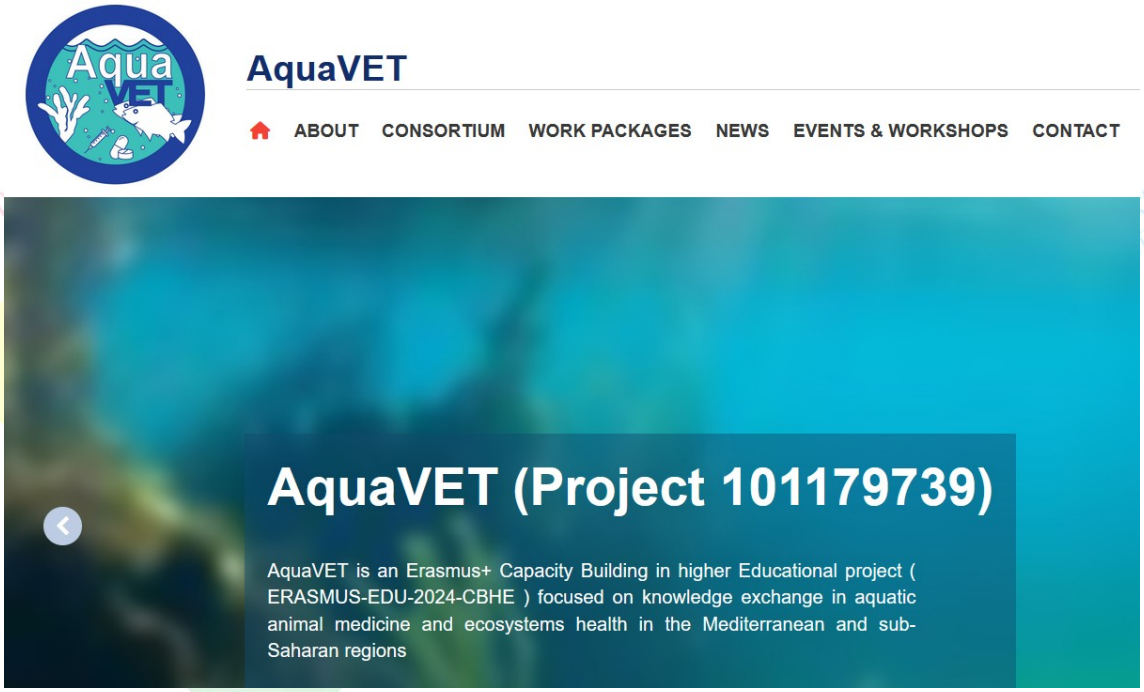
- Alexandria University, Egypt.
- Arab Academy for Science, Technology and Maritime Transport, Egypt.
- The University of Nigeria Nsukka, Nigeria.
- Michael Okpara University of Agriculture Umudike, Nigeria.
- The University of Palermo, Italy.

- Istituto Zooprofilattico Sperimentale delle Venezie (IZSVe), Italy.

Together, these partners collaborate on curriculum modernization, knowledge exchange, and targeted training programs to foster sustainable aquatic ecosystems and strengthen food security across the Mediterranean and sub-Saharan regions.

AquaVET Knowledge Exchange in Aquatic Animals Medicine and Ecosystem Health in the Mediterranean and sub-Saharan Regions

Published on AASTMT webpage:
AquaVET Knowledge Exchange in Aquatic Animals Medicine and Ecosystem Health in the Mediterranean and sub-Saharan Regions



Project homepage:
AquaVET project homepage

AASTMT participation in the ongoing project Pro-GREEN-LABs

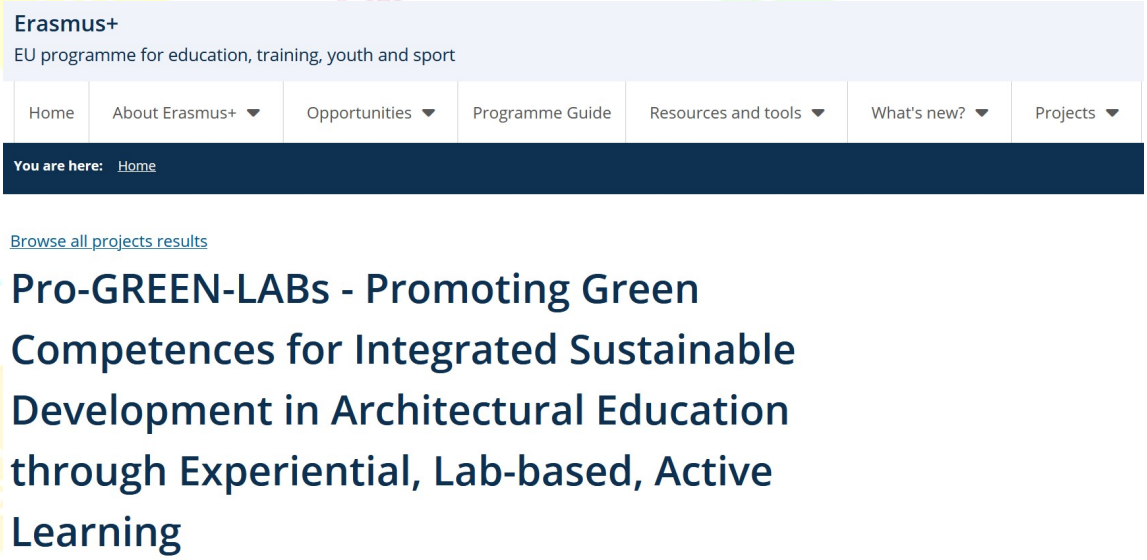
1 April 2024 – 31 March 2027

The Arab Academy for Science, Technology and Maritime Transport (AASTMT) continues its participation in the project titled "Promoting Green Competences for Integrated Sustainable Development in Architectural Education through Experiential, Lab-based, Active Learning" (Pro-GREEN-LABs, Grant Agreement ID: 101129466), funded under the European Union's

Erasmus+ Programme for Capacity Building in Higher Education. Running from April 2024 through March 2027, this collaborative 36-month initiative brings together eight higher education institutions across Europe and the South Mediterranean—including the Arab Academy for Science, Technology and Maritime Transport (AASTMT). The project's core mission is to modernize architectural and urban design education by embedding green competencies and sustainable development principles directly into curricula. To bridge the gap between theory and practical application, Pro-GREEN-LABs utilizes a Joint Lab approach. This involves establishing advanced, hybrid urban living labs equipped with modern tools such as 3D printers, digital fabrication hardware, energy loggers, and immersive visualization technology. These labs serve as dynamic hubs for experimental learning, faculty capacity building, and community-driven climate resilience strategies. Ultimately, the initiative empowers the next generation of architects and urban planners to lead the green transition and tackle pressing environmental challenges across the region.

Participants of the project include:

- Bauhaus-Universitaet Weimar, Germany (Coordinator).
- Alexandria University, Egypt.
- Arab Academy for Science, Technology and Maritime Transport, Egypt.
- Cairo University, Egypt.
- Chalmers Tekniska Hogskola, Sweden.
- German Jordanian University, Jordan.
- Petra for Education, Jordan.
- Politecnico Di Milano, Italy.



Published on Erasmus+ webpage:
Pro-GREEN-LABs Project