

Blue RoSES

Blue Robotics

for Sustainable Eco-friendly Services for innovative marinas & leisure boats

Project Coordinator: Massimo Caccia
CNR - INstitute of Marine engineering

Partnership



Advisory Board

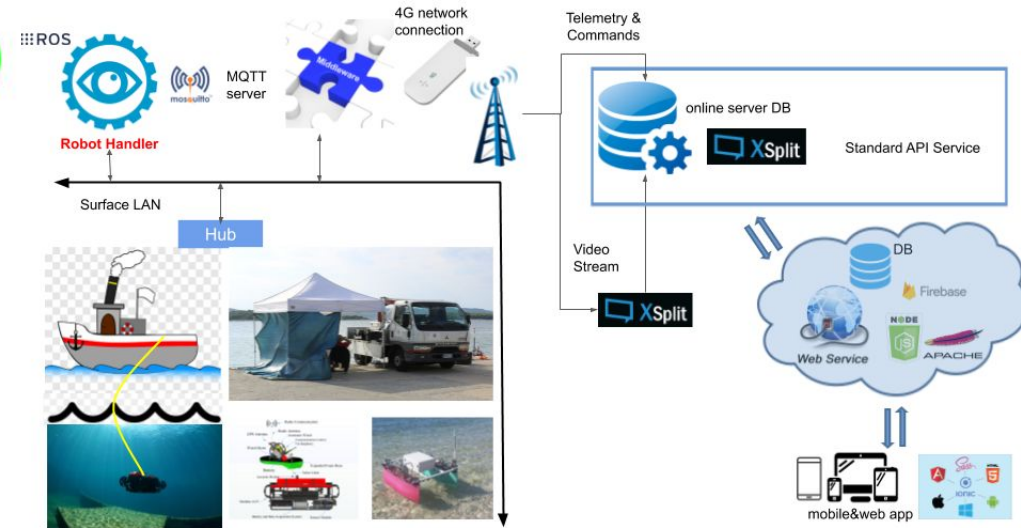
Vincenzo Poerio	CEO of Tankoa Yachts Former CEO of Benetti Yachts
Justin Manley	Innovative technologist
Gregory Yovanof	Prof. of Innovation & Entrepreneurship
Simonetta Fraschetti	Coord. of Interreg MED AMAre

Stakeholder Board

mareFVG (cluster)	DLTM (cluster)
Achaia Chamber of Commerce	Arco Latino (cooperation platform)
DGPM (ocean literacy)	Aula del Mar (ocean literacy)
West Med Assistance Mechanism	Subnauta (diving, Pilot 1)

Cluster Marítimo Marino de Andalucía

Pilot 2: harbour/environment
robotic-based water and seabed monitoring
inside marinas



remote access to naturalistic and/or cultural underwater sites

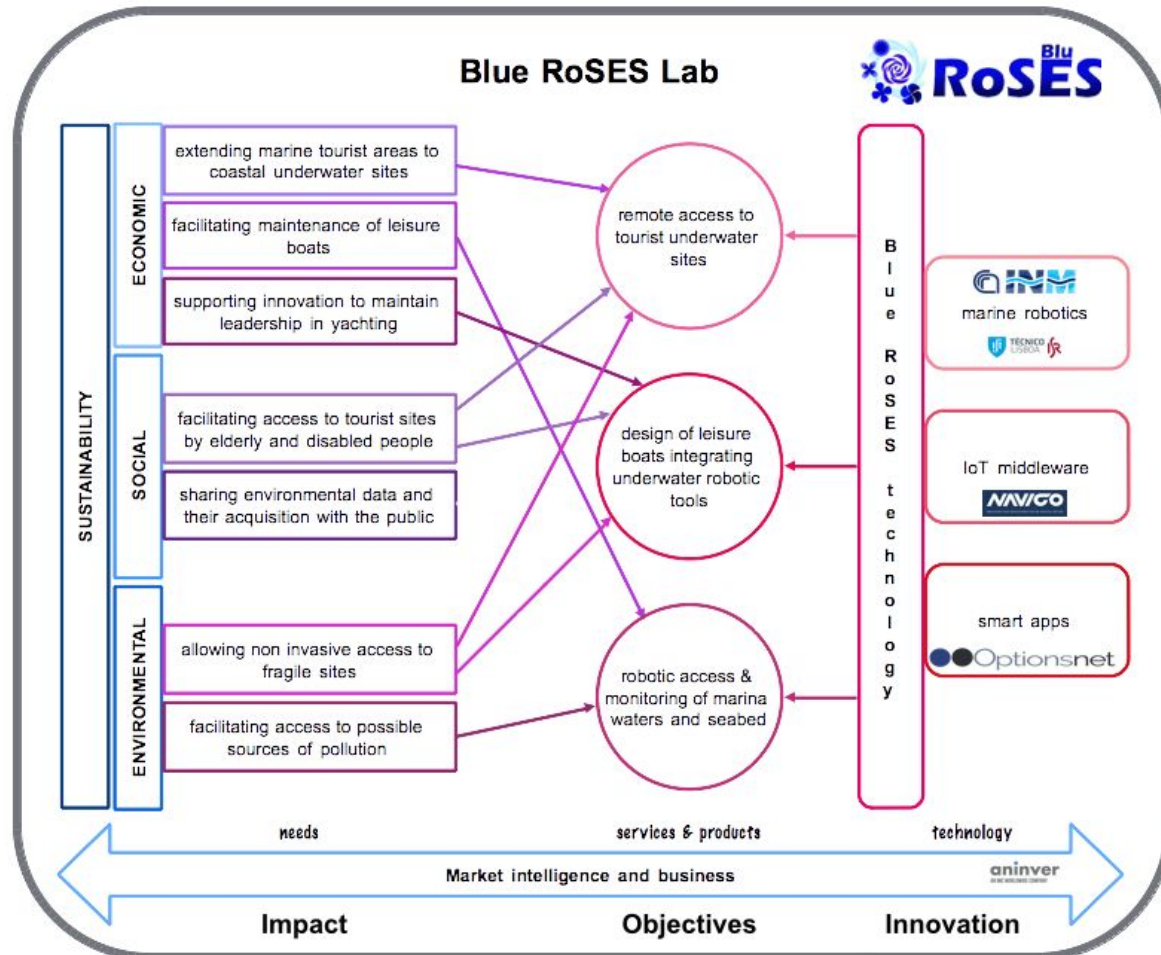
Rationale

Duration

December 1, 2019 - November 30, 2021
May 31, 2022*

Project eligible cost: 1042725.78 €

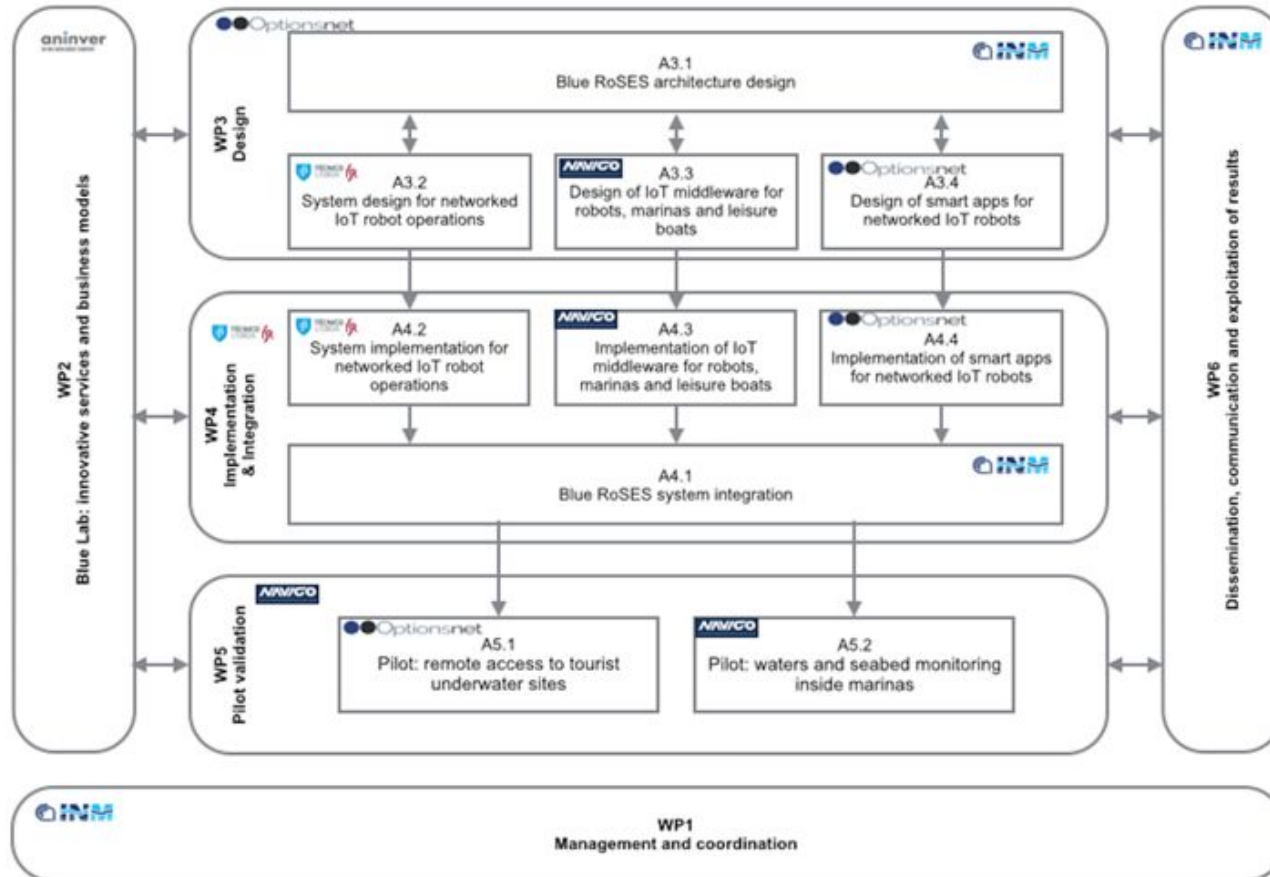
Max. grant amount: 834178.00 €



Objectives

- **Technology objective TO1:** prototype middleware architecture and tools for connecting marine robots to leisure boats' onboard home automation, marinas IT infrastructures, and smart devices
- **Innovative services (Service Objectives SO)**
 - SO1: remote access to naturalistic and/or cultural underwater sites (Pilot 1)
 - SO2: robotic-based waters and seabed monitoring inside marinas (Pilot 2)
 - SO3: robotic-based monitoring of yacht hulls for security and support to refit and dismantling
- **Innovative products (Product Objectives PO)**
 - PO1: innovative leisure boats integrating robotic tools, e.g. ROVs, for facilitating access to the underwater environment
- **Dissemination Objective DO1:** to promote awareness of new business models and market opportunities
- **Communication Objective CO1:** to increase public awareness of how the introduction of robots and IoT at sea can support economic growth and environmentally sustainable use of marinas and coastal areas

Implementation



Pilot 1: remote access to tourist underwater sites

Ocean Revival underwater park

Praia da Rocha, Portimão, Algarve, Portugal

LIBERA FUSION-Class

Hybrid ROV/AUV



Pilot 2: water & seabed monitoring inside marinas

Viareggio harbour



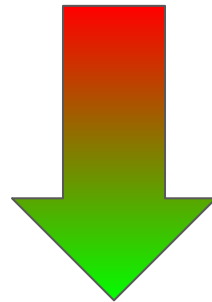
Proteus ROV/AUV



SWAMP ASV

Blue RoSES & tourism: from sustainability to resilience

Designing & developing technology to support sustainable touristic access to coastal areas in a scenario of worldwide growth of the tourism sector



Covid-19 Outbreak

Can the designed & developed technologies support tourism safety during pandemic, while contributing to change touristic offer in order to make it more resilient to unforeseen emergencies?

Blue RoSES & tourism: from sustainability to resilience

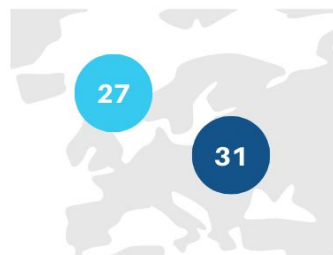
ICT services for post Covid-19 blue tourism in the Mediterranean region

November 10, 2020, 10:00 a.m. - 1:00 p.m. CET, Online - GoToWebinar Platform



Blue RoSES lab: gender gap in marine robotics

Questionnaire/Europe



- Contacted research centers
- Obtained answers



Preliminary findings



GENERAL DATA

Average age of respondents: 47 years old
37% of respondents are Italian institutions
> 80% of respondents are male

WOMEN IN MARINE ROBOTICS

7.4% research teams have 0 women
28.5% research teams have no women researcher



SPECIALISATIONS

Predominant specialisation in Guidance, navigation, control
25% of teams have 50% or more women with a technical degree working in admin.

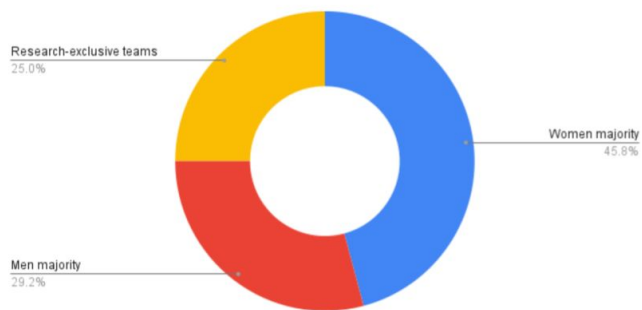


JOB STABILITY

Women researchers tend to work full-time yet few are permanently employed

SOME STATISTICS

Male/Female presence in non-research roles



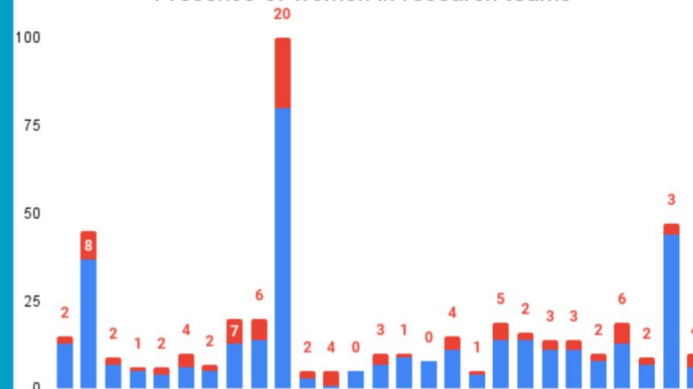
TEAM COMPOSITION

The presence of women in teams is very low, in some cases inexistent.

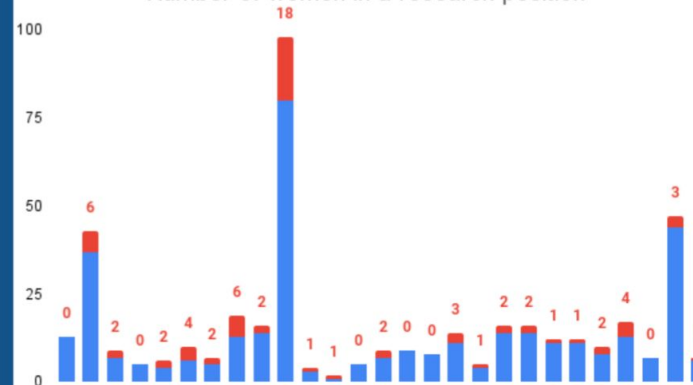
RESEARCH-FOCUS

In most of the teams the number of women in research roles is even lower.

Presence of women in research teams



Number of women in a research position



Blue RoSES lab: INTERVIEWS

WOMEN IN BLUE - INTERVIEWS

We are interviewing women working in marine robotics & blue tech, in order to share their inspiring stories more broadly and provide:

Empowerment
Inspiration
Motivation

to other women. If you feel like recommending us potential interviewees whose stories are worth sharing, please get in touch at:
ruxandra.lupu@inm.cnr.it

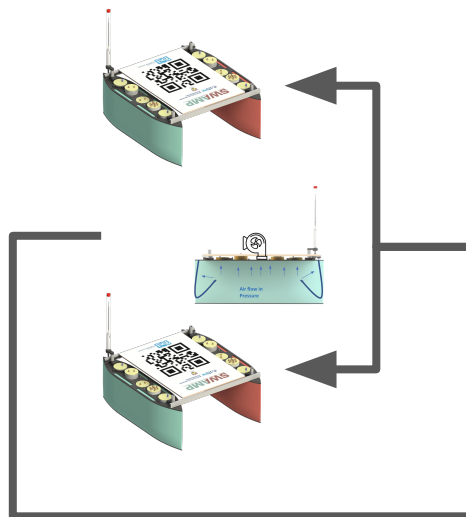
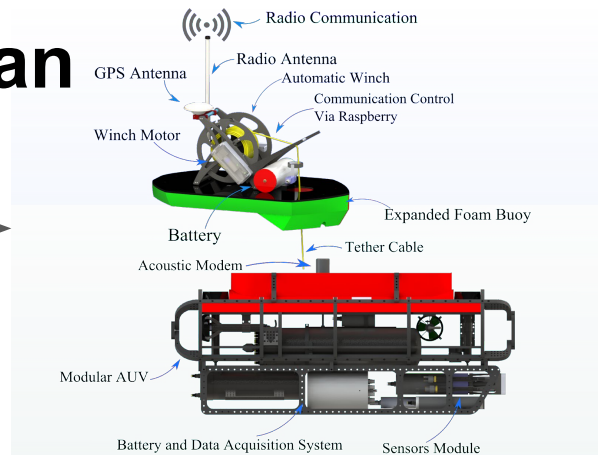
Breaking The Surface event

Tuesday, September 28, 2021, 8:30 p.m.

'Women in Blue: gender-related challenges and opportunities in Blue research'



Capitalization plan



Blue RoSES network

- Website: www.blueroses.eu
- Blog: <https://bluerosesproject.wixsite.com/home/blog-1>
- Facebook: <https://www.facebook.com/BlueRosesProject>
- Instagram: https://www.instagram.com/blue_roses_project/
- Linkedin: <https://www.linkedin.com/company/blue-roses-project>
- Twitter: <https://twitter.com/BlueRoSESpj>
- YouTube:
<https://www.youtube.com/channel/UCn4wyJN15uMgbkM90XZcjiw>