

BRIGANTINE

Chemico-physical and multispectral Data fusion
for Adriatic sea monitoring
by autonomous vessel

RCO04_4.1 Entreprises with non financial support (entreprises)

University of Udine (PP1)
Corila (PP4)
UnivPM (PP2)

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Summary

Participation to events that create connection with SME and suggested solutions to implement the equipment

Description

The participation of the BRIGANTINE project in the ICOMIA World Marinas Conference 2025 represented an important opportunity to establish contacts with SMEs and companies operating in the nautical, marina management, marine technology, and environmental monitoring sectors. The conference is recognized as one of the leading international events dedicated to marinas, nautical infrastructures, and innovation in the recreational marine industry, bringing together marina operators, SMEs, technical experts, manufacturers, start-ups, investors, and service providers from different countries. During the event, the BRIGANTINE autonomous vessel was presented through demonstrations and networking activities, allowing direct interaction with companies potentially interested in the operational applications of the developed technologies. The participation enabled the partnership to discuss possible uses of the ASV systems for water quality monitoring, marina management, environmental services, and sustainable blue economy activities. SMEs involved in marina infrastructure, floating systems, sensors, marine technologies, and digital solutions participated in the conference panels and exhibition areas, providing a valuable context for knowledge exchange and future collaboration opportunities. The conference gathered a broad international audience of professionals and stakeholders from the nautical and marina sectors, including marina operators, technology suppliers, infrastructure companies, charter operators, and innovation-oriented SMEs. According to the organizers, the event represented one of the largest editions of the conference, with exhibitors and delegates from numerous countries worldwide, strengthening the dissemination impact and visibility of the BRIGANTINE project among industrial and professional stakeholders. The available public sources do not provide a complete official list of all SMEs attending the ICOMIA World Marinas Conference 2025. This conference gathered approximately 500–645 delegates from more than 40 countries, including SMEs, marina operators, technology providers, designers, nautical infrastructure companies, environmental service providers, and innovation-oriented marine businesses. However, several SMEs, marina operators, technical suppliers, and marine industry companies are explicitly mentioned among sponsors, speakers, exhibitors, and participating stakeholders. Among the SMEs and private companies involved or represented at the event, at least 8 of them attended to the infield demonstration (ie D-Marin a marina operator, Ferretti Group a marine industry representative, Marinedi Group; Marinetek Adriatic specialized in floating marina systems, Poralu Marine, Safe Harbor Marinas, MarineMax, SF Marina, Vento di Venezia – local organizer and marina operator, Venezia Certosa Marina – hosting venue and marina operator. The participation in the CROFISH international fair through presentations, panel participation, and a project booth, enabling direct interaction with fisheries, aquaculture, public authorities, SMEs, and the general public. During the dissemination and networking activities carried out within events such as AquaFarm 2026 several SMEs and technology providers operating in the fields of marine robotics, sensors, autonomous systems, environmental monitoring, and aquaculture technologies were contacted. Among the companies involved were BlueTraker, specialized in

environmental observation and fisheries monitoring systems; Floatex S.r.l., active in floating systems and technical solutions for marine monitoring; Garware Technical Fibres Limited, producer of technical materials for marine and aquaculture applications; Acqua&Co, focused on integrated systems for aquaculture monitoring and water quality management; Miranda Drone Green Services, specialized in drone-based environmental monitoring; TechFor Titude, active in environmental data management technologies; and Strike Motors, involved in marine technological systems applicable to autonomous platforms. Particular interest was also shown by Blue Robotics, an American company specialized in marine robotics, underwater drones (ROVs), autonomous surface vessels (ASVs), thrusters, sonars, and open-source marine technologies. Its best-known platform, the BlueROV2, is widely used for marine research, environmental monitoring, aquaculture, underwater inspections, and scientific activities. In the end TV 9 SMEs were in contact with the project: Ecomondo 2025 (Rimini)(PP2), AquaFarm 2026 (Pordenone)(PP1), CROFISH 2026 (Poreč, Croatia)(PP3), and the workshop “Nuove opportunità...” held at the Arsenale of Venice(PP4) on 13 March 2026. These events provided important opportunities to present the BRIGANTINE autonomous monitoring technologies and to establish direct interaction with SMEs and industrial stakeholders operating in the fields of aquaculture, marine robotics, environmental monitoring, sensors, AI-supported data analysis, and underwater technologies. Overall, 9 SMEs and private companies were directly engaged during these activities, including ENVEA, AMS Analitica, ACE iIoT, WALISE, INNOVA SEA, SubSeaRov, SEACRAS, Consorzio Venezia Nuova, and Thetis S.p.A. The companies expressed interest in several potential applications of the BRIGANTINE technologies, including environmental monitoring, connectivity and data transfer systems, biomass estimation, autonomous surveillance, underwater inspections, and monitoring of marine infrastructures such as the MOSE system.

The company expressed interest in the BRIGANTINE project and in the possible industrial development of the autonomous drone platform. The interactions with SMEs and technology providers focused on possible applications of the developed technologies, onboard equipment, environmental sensors, propulsion systems, and future industrial exploitation opportunities. In particular, interest emerged from companies working on biomass estimation through image analysis technologies and from operators requiring instrumentation and autonomous platforms for monitoring offshore fish farming cages and aquaculture facilities. Collaboration with SMEs was strengthened through the signing of Letters of Commitment with Croatian companies SeaCras and Calyx, supporting future exploitation, dissemination, and technology transfer perspectives linked to BRIGANTINE monitoring systems and ASV technologies. These exchanges highlighted the potential applicability of the BRIGANTINE technologies not only for marine environmental monitoring, but also for aquaculture management, biomass observation, and operational support activities in the blue economy sector. Although several companies expressed interest in future collaborations for the industrial development and optimization of the drone systems, no operational or commercial agreements have yet been formally evaluated or defined. Discussions are still ongoing and may evolve during the final phase of the project depending

on future technical developments and exploitation opportunities and the partners options on that. Overall, 9 SMEs were in direct contact with the project: Ecomondo 2025 (Rimini)(PP2), AquaFarm 2026 (Pordenone)(PP1), CROFISH 2026 (Poreč, Croatia)(PP3), and the workshop “Nuove opportunità...” held at the Arsenale of Venice(PP4) on 13 March 2026. These events provided important opportunities to present the BRIGANTINE autonomous monitoring technologies and to establish direct interaction with SMEs and industrial stakeholders operating in the fields of aquaculture, marine robotics, environmental monitoring, sensors, AI-supported data analysis, and underwater technologies. Overall, 9 SMEs and private companies were directly engaged during these activities, including ENVEA, AMS Analitica, ACE iIoT, WALISE, INNOVA SEA, SubSeaRov, SEACRAS, Consorzio Venezia Nuova, and Thetis S.p.A. The companies expressed interest in several potential applications of the BRIGANTINE technologies, including environmental monitoring, connectivity and data transfer systems, biomass estimation, autonomous surveillance, underwater inspections, and monitoring of marine infrastructures such as the MOSE system.