

B2B Networking session with relevant international robotics, sensors and maritime communications companies

The Oceanic Platform of the Canary Islands (PLOCAN) invites you to participate in the Networking Session that will take place on 29th September (09:00 AM – 11:30 AM) at its headquarters.

As a public organization, PLOCAN is committed to reinforce the regional business network through public actions and events. The objective of this session is to create new opportunities for regional SMEs in an international environment where companies will show their cutting-edge technologies. The Networking Session will be divided into two parts (a coffee break will be offered from 10:00 AM to 10:30 AM). The local SMEs interested in attending have to fill in an [online form](#) to provide the company's details and to select the SWARMs partners they want to meet. You can find the [complete list of attending organizations and companies](#) in this document, as well as a brief description of each one. The participation is free of charge. Besides the B2B meetings, PLOCAN could provide the local SMEs with a 'demonstration area' for roll-up banners or products (on request). SMEs will have between 10-20 minutes to meet the project partners, to exchange ideas or to identify potential collaborations. Time could vary depending on attendance. The main language of the event is English.



SWARMs)))

PLOCAN is a partner in the [SWARMs](#) project. The main goal of the SWARMs project is to expand the use of underwater and surface vehicles (AUVs, ROVs, USVs) to facilitate the conception, planning and execution of maritime and offshore operations and missions. This will reduce the operational costs, increase the safety of tasks and of involved individuals, and expand the offshore sector.

REGISTRATION

In case you are interested in participating to make new potential contacts, please fill in this [online form](#). You will received further information after the registration.

Please, note that registration deadline is on 9th September 2016.

Contacts

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SWARMs' Early Trials

PLOCAN test site facilities will be the scenario for the early trials (first demonstration) of the SWARM system. These trials will be an adaptation of the lab tests performed over the different subsystems into a more realistic environment. Their results will be valid for evaluating the appliance of the modules to the real demonstrations to be launched in the following stages.

List of attending organizations and companies

No.	Name	Country	Type
1	Acciona Infraestructuras	Spain	Large industrial company
2	Autonomous Systems	Romania	Small and Medium-sized Enterprises (SME)
3	Bosch	Germany	Large industrial company
4	Boskalis	Netherlands	Large industrial company
5	DeepVision	Sweden	Small and Medium-sized Enterprises (SME)
6	Desistek Robotik	Turkey	Small and Medium-sized Enterprises (SME)
7	ECA Robotics	France	Large industrial company
8	EvoLogics	Germany	Small and Medium-sized Enterprises (SME)
9	GS Lda.	Portugal	Small and Medium-sized Enterprises (SME)
10	HI Iberia	Spain	Small and Medium-sized Enterprises (SME)
11	Instituto de Telecomunicações	Portugal	Research organisations
12	Inventas	Norway	Small and Medium-sized Enterprises (SME)
13	Ixion	Spain	Small and Medium-sized Enterprises (SME)
14	Mälardalen University	Sweden	University
15	Maritime Robotics	Norway	Small and Medium-sized Enterprises (SME)
16	Norwegian University of Science and Technology	Norway	University
17	Onera	Francia	Research organisations
18	PLOCAN	Spain	Research organisations
19	Sabanci University	Turkey	University
20	Science & Technology	Netherlands	Small and Medium-sized Enterprises (SME)
21	Scuola Superiore Sant'Anna	Italy	University
22	Sintef	Norway	Research organisations
23	TeamNet	Romania	Large industrial company
24	Tecnalia	Spain	Research organisations
25	Thales	France	Large industrial company
26	TNO	Netherlands	Research organisations
27	TTI Norte	Spain	Small and Medium-sized Enterprises (SME)
28	Universidad Politécnica de Madrid (UPM)	Spain	University
29	Universidade de Aveiro	Portugal	University
30	Water Linked	Norway	Small and Medium-sized Enterprises (SME)
31	Whitehead	Italy	Large industrial company

Acciona Infraestructuras



[Website](#)

ACCIONA Infraestructuras is a leading European company constructing and managing buildings and civil infrastructures under the sustainability principles. It is part of ACCIONA Group, whose business lines are Construction, Energy, Water, Real State, Urban-Environmental Services, Logistic and transport. It has its own R&D Technological Centre in Madrid, composed by a multidisciplinary and international team of about 150 highly qualified researchers from a wide range of disciplines. Main research areas are Automation and ICTs, Nanotechnology, New Construction Materials, Products and Systems, Energy Efficiency and Environmental Technologies.

Autonomous Systems



SC AUTONOMOUS SYSTEMS SRL was established in 2011 having as the business core research and development of autonomous air, land and naval systems. Other domains of interest are: surveillance of critical infrastructure, areas affected by natural disasters or man-made structures, support intervention in emergencies and autonomous systems testing in order to prove that the requirements in the technical documentation are met and the system is working.

Bosch



[Website](#)

Bosch is one of the world's leading technology companies and active in the automotive, industrial technology, consumer goods and security systems sectors. Bosch will bring its expertise in the fields of robotics and subsea hydraulics to the SWARMs project.

Boskalis



[Website](#)

Research and development is essential to Boskalis. It continuously invests in the development of new methods and cutting-edge technology to increase the efficiency, effectiveness and environmental sustainability of dredging, offshore energy and salvage activities. Through R&D Boskalis also aim to achieve greater cost efficiency and precision throughout our operations by, for example, enhancing training programs, project design and engineering, using advanced simulators and virtual reality technology. Boskalis R&D activities also contribute to providing accurate estimation models for tender processes, and developing technology to enter new markets such as offshore mining.

DeepVision

DeepVision

[Website](#)

DeepVision serves the global market with high performance SONAR solutions. It designs and develop the whole systems from transducer design, electronics and mechanics to software. It manufactures and delivers both final products and OEM modules

Desistek Robotik



[Website](#)

Desistek is a robotics company especially experienced on marine robotics. Desistek produces mini ROV vehicle for observation purposes up to 250 meters deep. Desistek also produces data buoys to gather data from sea 7/24 remotely. Desistek has completed several governmental supported R&D projects including ROV, AUV and UAVs.

ECA Robotics



[Website](#)

ECA Robotics designed the first unmanned underwater vehicle with integrated real time and artificial intelligence on board in 1960. ECA produced more than 600 military and commercial grade underwater vehicles and has extensive expertise in integration, embedded architecture, autonomous underwater navigation, real-time localisation and mapping.

EvoLogics



[Website](#)

EvoLogics team has over 14 years of ample experience in developing and implementing innovative signal processing techniques that improve data transmissions in challenging underwater environments. EvoLogics experts have designed novel PHY/MAC/NET protocols for the company's acoustic communication and positioning systems. EvoLogics' commercial underwater products have networking capabilities and can successfully operate under different communication protocols. Moreover, EvoLogics' experts collaborated with its industrial partners on a series of modular systems and have experience in adapting its products to multiple protocol requirements.

GS Lda.



[Website](#)

GSLDA has growing experience and strong expertise in developing innovative solutions for energy efficient secure networking communications considering mobile nodes and dynamic environments. This SME continues to further enhance and develop its in-house system-level simulation platform, namely for emerging D2D/M2M/IoT communications. Network security aspects are also one of GSLDA's key expertises.

HI Iberia



[Website](#)

HI Iberia is a medium size software development company. Skills in this field include:

- Computational semantics, especially applied to information fusion.
- Autonomous and highly automated driving of vehicles (cars). Fully Electric Vehicle management.
- Simulation (e.g., traffic simulation).
- Mobile based (Android) video analysis.

Instituto de Telecomunicações



[Website](#)

ITAV has strong reputation and deep expertise in communications and associated applications, namely considering mobile equipment/nodes and dynamic environments, including maritime. Also, this institution carries out applied research on such systems, enhancing or extending them through advanced strategies involving, e.g. cooperation and/or context awareness. Moreover, ITAV has vast experience in large international projects, including management, throughout FP4-FP7.

Inventas



[Website](#)

Inventas delivers innovation processes and products at both component and system level. The motivation of participation into SWARMs is to broaden the portfolio on user interfaces and user design for digital workspaces into complex cooperating systems. Inventas will contribute with their expertise on human-machine interaction and user interface design.

Ixion



[Website](#)

IXION is a highly technological SME with more than 10 years of experience in SW and HW development for unmanned vehicles, spanning from requirement analysis to validation, verification, simulation and testing.

Mälardalen University



[Website](#)

The Embedded Systems research environment (ES), is the largest and most prominent research environment at Mälardalen University (MDH). ES has a strong national and international scientific position, with a well-developed and successful cooperation with regional, national and international industry. The research environment annually produces over 100 peer reviewed scientific publication, several in proceedings of internationally leading conferences and journals.

Maritime Robotics



[Website](#)

Maritime Robotics develops and delivers unmanned surface vehicle systems, and has gathered broad experience with these systems through several projects with different customers. They will contribute with expertise on system engineering and system integration, with special attention to support vessels and coordination.

Norwegian University of Science and Technology



[Website](#)

NTNU is a leading university in engineering, awarding over 2000 MSc and 300 PhD degrees each year. In SWARMS the main contributing department is Department of Marine Technology. The department has a number of laboratories; applied underwater robotics lab, ocean basin, power management lab, structural mechanics lab, marine cybernetics lab, towing tanks. The department is also host of the Norwegian Centre of Excellence Autonomous Marine Operations and systems (AMOS).

Onera



[Website](#)

ONERA works on AUV studies since 1998, especially on AUVs operated by the French Government Defense procurement agency. ONERA works on the cooperation of unmanned systems involving AUVs since 2007. It develops vehicle planning algorithms in many fields for decades. Research is specially related to software for situation assessment, supervision, planning, re-planning and fault monitoring functions at the vehicle level and in the system control station. Examples of research applications: DAURADE, a multi-purpose experimental AUV for Rapid Environmental Assessment applications, ACTION Prospective Research Programme on the cooperation of heterogeneous autonomous vehicles.

PLOCAN



[Website](#)

PLOCAN has a background and related expertise gained in marine technology (ocean observing platforms) and focusing within the development and regular use of autonomous underwater vehicles and marine robotics mainly through FP7 projects like PERSEUS, GROOM, and EURATHLON.

PLOCAN currently has 26 high-qualified R&D personnel staff. Its managing team and staff has an extensive experience in the development and management of large national and international projects in the marine and maritime sector such as CANIGO (4th FP), ANIMATE (5th FP), MERSEA (6th FP), EuroSITES (7th FP), AMASS (FP7), GROOM (7th FP), TROPOS (7th FP), NeXOS (7th FP), FIX03 (7th FP), LEANWIND (7th FP), etc.

Sabanci University



[Website](#)

Sabanci University conducts top research in applied and basic sciences with international partners. Our relevant expertise is in the design and application of networked control systems with time delays and data loss. We also have extensive design and application know-how of ultrasonic transducers and associated electronics.

Science & Technology



[Website](#)

Science and technology BV has years of experience with developing innovative software solutions for various domains including the space, defence, life science and oil & gas industry. This concerns especially software for the processing of satellite and sensor data.

Scuola Superiore Sant'Anna



[Website](#)

The BioRobotics Institute of SSSA has a strong expertise in robotics, in autonomous robots, in sensory-motor coordination, and related topics, developed in research activities at international level. The Institute (and formerly the ARTS Lab) has been taking part and coordination a large number of European projects, on fundamental robotics research and on robotics applications. The Research Centre on Sea Technologies and Marine Robotics has been established in 2009 in Livorno, on the sea-side, purposively for carrying on research on the marine applications of robotics.

Sintef



[Website](#)

SINTEF is an independent research organization with approximately 2,000 employees, of whom around 70% are researchers. Contract research carried out by SINTEF covers all scientific and technical areas, and range from basic research through applied research to commercialization of results into new products. The competences of SINTEF ICT, having experience with and being of special strategic importance within autonomy and robotics, will be employed in SWARMs.

TeamNet



[Website](#)

Teamnet World Professional Services is part of Teamnet International Group, having expert teams proficient in various types of assignments with a dedicate team of experts in European projects. The company is constantly investing in innovation. It has experience in developing integrated IT systems in the following domains: Environment, Administration, Transport, e-Government & e-Health, Agriculture, Cadastre, Utilities, Oil & Gas and Banking.

Tecnalia



[Website](#)

Private RTO with cross-domain technologic skills related to CPS engineering: computer vision techniques for image enhancing and object recognition; smart analytics, prediction, and optimization techniques for task planning; and semantic technologies and distributed middleware solutions for interoperability and integration of heterogeneous information.

Thales



[Website](#)

In THALES Research and Technology, the Optimization and Decision Laboratory (LDO) has a background and related expertise in distributed optimization algorithms and multi-criteria decision solutions. For more than 20 years, LDO aims to provide adapted solutions for THALES units in different domains. In particular, LDO works on line formation algorithms in a self-organized swarm of micro-UUV (DGA Ph-D thesis, 2013), temporal planning (in close relation with INRIA and ONERA teams, French ANR Descarwin project, 2012) and on different path-planning solutions (UAV mission planning, weather routing, multi-criteria optimization...).

TNO



[Website](#)

TNO's Acoustics & Sonar department has over 15 years of experience with wireless acoustic underwater communications, including design and application of robust equalizer algorithms, and acoustic channel characterization and modelling. The oceanic environment mutilates the transmitted signal by adding noise, multipath and Doppler-spreading effects, necessitating the application of complex equalization algorithms. It is this advanced signal processing where TNO's Acoustics & Sonar department has a strong position.

TTI Norte



[Website](#)

TTI is an SME that works in the technological forefronts of space, military, telecommunications, science, and information technology sectors. It was founded in 1996 entirely with national private capital and comprises an expanding team of more than 100 highly qualified engineers. TTI also works in radiofrequency and antenna technology fields, developing point-to-point broadband communication solutions based on customized developments as well as on commercial equipment.

Universidad Politécnica de Madrid (UPM)



[Website](#)

Universidad Politécnica de Madrid (UPM) is a technical university with more than 4.000 faculty members, around 38,000 undergraduate students and 6,000 postgraduates in 21 schools of study. UPM, as a top quality academic establishment, has a strong commitment to R&D and Innovation. It boasts over 200 Research Units and several Research Institutes and Technological Centres and contributes significantly to the international scientific community with a high number of journal papers, conference communications, and PhD theses. Next-Generation Networks and Services (GRYS) research group activity is focused on three research

lines, which are closely related to Telematic Engineering, namely: Next-Generation Telematic Networks and Services, Telematic Networks and Services Security and Advanced Software Engineering for Telematic Networks and Services.

Universidade de Aveiro



[Website](#)

UAVR, as a university, has many and transversal expertise, which in SWARMs essentially translates into its vast knowledge and experience in signal processing and patterns recognition. It is also to highlight this institution's skills associated to systems architectural designing to support cooperation among mobile nodes in a cluster, e.g. targeting energy saving. Other relevant expertise include approaches based on game theory, advanced fusion techniques and cognitive/context awareness.

Water Linked



[Website](#)

Water Linked AS was founded in 2013 with the vision of becoming a world leader in high-end acoustic subsea communication systems. Through high technological R&D projects, Water Linked is bringing the next generation acoustic subsea communication systems to the market. Water Linked develops high-bandwidth acoustic underwater modems, and will contribute with their expertise on hydroacoustic transmission.

Whitehead



[Website](#)

Whitehead Sistemi Subacquei (WASS) was founded in 1875 and is the oldest company in the world for underwater applications. In 1995, WASS joined the FINMECCANICA Group, collecting all the underwater activities of the Group. WASS products include lightweight and heavyweight torpedoes, torpedo countermeasures, surveillance systems and sonar systems. WASS is recognized for its excellence in Integrated Systems Engineering, is a world leader in Underwater Systems. WASS products have been chosen and put in service by several navies around the world.