The only event dedicated to seabed defence which debriefs the lessons from NATO's largest exercise for Unmanned Maritime Systems

Defence iQ

In association with REPMUS 2025

SEABED SECURITY

PROTECTING CRITICAL UNDERWATER INFRASTRUCTURE AMID INCREASING SEABED ACTIVITY

30 September – 1 October 2025
Tróia Design Hotel, Portugal

LEADING PERSPECTIVES ON THE UNDERWATER BATTLEFIELD INCLUDE:

Major General Paul Maynard OBE, Director Strategy and Policy, Assistant Chief of the Naval Staff, **UK MoD**

Rear Admiral Nuno de Noronha Bragança, Coordinator, **Atlantic Centre**

Captain Nuno Ribeiro, Director CEOM, **Portuguese Navy**

Colonel Claude Sanson, DBH Requirement Determination and Engagement Section Head, **NATO ACT**

Carine van Bentum, Director, **SeaSEC**

Lieutenant-Commander Florin Constantinoiu, Head of Innovation & Research, **Romanian Navy HQ**

Konstantin Bellini, Director, Security and Defence, **European Centre of Excellence for Countering Hybrid Threats**

"LIKE OTHER ASPECTS OF MARITIME SECURITY, SECURING CRITICAL UNDERSEA INFRASTRUCTURE GOES BEYOND POSTURING TO DETER FUTURE AGGRESSION; IT INCLUDES ROBUST COORDINATION, TO ACTIVELY MONITOR AND COUNTER MALIGN OR HYBRID THREATS."

Vice Admiral Mike Utley, Commander, NATO MARCOM

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SEABED SECURITY

WELCOME

Dear Colleague,

I am delighted to announce the launch of Defence iQ's Seabed Security conference, in association with REPMUS 25. The importance of Critical Infrastructure Protection (CIP) for economic stability, public safety, national security and its global impact, is far reaching. As activity on the seabed continues to rise, it is increasingly important for stakeholders to come together to foster cooperation and develop new strategies to protect critical undersea infrastructure.

Recent interference with undersea cables has highlighted the need for both advanced capabilities to enhance operations in this contested environment, and the need for open discussions between military and civilian organisations.

The first day at Seabed Security will discuss the current challenges faced by stakeholders from across several industries to examine the global threat context faced by those operating in the underwater space, and will encourage cross-sector collaboration. Discussions will span uncrewed vehicles, advanced sensors, and data systems, addressing the latest developments and initiatives that can support operations.

During the second day, the focus is on the strategies and technologies that can be utilised to monitor and protect seabed infrastructure, including cutting-edge research into new capabilities to assist with operations. As new technologies emerge, stakeholders must be prepared to take advantage of them in order to face the challenges of an increasingly contested seabed.

Collaboration will drive innovation, and this conference presents multiple opportunities for attendees to discuss, question, and overcome the challenges faced by navies, government, security agencies, maritime organisations, academia, and industry as they look to secure critical undersea infrastructure.

Seabed Security 2025 provides a unique platform to engage with experts working within the underwater battlespace, allowing the audience to take part in conversations, create new partnerships, and share knowledge that will drive progress and protect essential infrastructure.

I look forward to welcoming you to Tróia in September.

Kind regards,

Anisa Cousin
Divisional Director
Defence iQ

ATTEND SEABED SECURITY 2025 TO:

- Discover the observations and outputs from REPMUS 2025 as participants from the exercise provide data-driven examples, and join a site tour of Portugal's Naval Operational Experimentation Center (CEOM) to explore its facilities and capabilities
- Understand the current threat picture for underwater activities through case-studies and programme updates that extend to strategies, technology, and operational perspectives
- Forge connections with stakeholders from across the underwater environment and gain knowledge from multiple sectors, including defence, telecommunications, banking, and finance
- Meet innovative solution providers working on seabed and uncrewed capabilities to learn about the latest developments for the protection of key infrastructure

"The 2022 incident involving the Nord Stream pipelines highlighted to the international community our dependence on seabed infrastructure for our current way of life. The recognition that damage to this critical infrastructure can threaten state sovereignty has led to reflection, as will occur at the 2025 seabed security conference, on how to protect it. As undersea cables, pipelines, and resource extraction operations become ever more important for economic stability and growth, safeguarding the seabed is crucial for ensuring uninterrupted services, protecting investments and promoting sustainable industrial development in the maritime sector. The defence industry is developing a new seabed security ecosystem that combines naval platforms, uncrewed systems, and sensor networks connected via advanced data fusion technology. This ecosystem is designed to protect submarine cables, pipelines, offshore installations, and national sovereignty beneath the waves. These efforts reflect the growing recognition that the seabed is now a critical frontier for national and economic security."

Captain Nuno Ribeiro,
Director CEOM,
Portuguese Navy

CEOM Centro de Experimentação Operacional da Marinha

SEABED SECURITY

MEET THE CHAIRMAN

Dear colleague,

Troia is not just a beautiful spot on Portugal's west coast, south of Lisbon. Troia is an operational laboratory for technological innovation in the field of naval warfare. The Troia test site was born of the boldness and foresight of the Portuguese Navy, an intuition of its former Chief of Naval Staff, Admiral Henrique Gouveia e Melo, whom I had the honor of meeting in September 2023 during REPMUS23.

Since then, Troia has become a key venue for the droning of NATO maritime operations. The REPMUS and Dynamic Messenger exercises held there are now world-renowned. NATO's military decision-makers come together with executives from defense technology and industrial bases, start-ups, inventors, researchers and academics, all equally brilliant, to observe the capabilities of tomorrow's warfare and anticipate that of the day after tomorrow. The drone combat methods currently used in Ukraine were probably foreseen in Troia years ago.

Following on from REPMUS and Dynamic Messenger 2025, I invite you to join us here on September 30 and October 1, 2025. I'll be delighted to welcome you to the event where we'll be discussing a burning issue: the security of the seabed.

99% of the world's digital data travels via undersea cables. Maritime energy infrastructures - yesterday pipelines, gas pipelines, now wind turbines, tomorrow tidal turbines and small modular reactors (SMR) - are essential to the energy transition. They are threatened in the Baltic by hybrid warfare.

The Black Sea is a marvellous laboratory for this dronization born in Troia. The Russian navy has been wiped off the maritime map by drones, in the "weak to strong" logic conceived by the Portuguese navy. Underwater mines are proliferating. Under Outhis Threat in Red Sea, air-sea drone attacks are forcing shipping companies to bypass Africa, despite the fact that more than 80% of trade flows pass through the seas, including our cell phones. Still in Red Sea, in a context of hybrid threats, a submarine cable from Europe broke not far from the Bab El Mandeb strait, leaving some Asian countries without Internet access for several days.

Seabeds of the Atlantic and Pacific oceans abound with mineral wealth that must be protected from plundering by unscrupulous nations.

The Seabed Security Defence iQ event is to be a great opportunity to think about how to protect these cables and energy infrastructures. It will provide an insight into the physical realities of the undersea and seabed environment, and the strategic challenges of data. What threats, physical or hybrid? From exo-atmospheric space to the seabed, is protection static or dynamic? It should allow us as operators and industry partners to broaden our thinking, with a focus on setting requirements, increasing availability and enhancing the variety of skills needed to meet the very demanding, technologically and incredibly fast-moving underwater environment.

With over 13 confirmed speakers, and a number of panel discussions, it promises to be a fascinating opportunity to assemble senior military leaders, S&T specialists, academia and industry experts to explore the latest developments, challenges, and solutions relating to this constantly evolving, vital and impactful area of warfare. Additionally, you will also have the chance to enhance your networking opportunities and to engage with key stakeholders as well.

We look forward to welcoming you to Troia (Portugal) in September for what promises to be an exciting and hugely informative event.

Kind regards,

Rear Admiral (Retd) Eric Lavault,
Former Head of the French Navy Seabed Warfare Department

SEABED SECURITY

2025 SPEAKERS INCLUDE

Major General Paul Maynard OBE, Director Strategy and Policy, Assistant Chief of the Naval Staff, **UK MoD**

Rear Admiral Nuno de Noronha Bragança, Coordinator, **Atlantic Centre**

Commodore Kyrre Haugen, Commander Norwegian Fleet, **Norwegian Navy**

Colonel Claude Sanson, DBH Requirement Determination and Engagement Section Head, **NATO ACT**

Captain António Mourinha, Innovation Adviser to the Chief of Navy, **Portuguese Navy**

Captain Nuno Palmeiro Ribeiro, Director, CEOM, **Portuguese Navy**

Arturo Ojeda Demaria, UXS Specialist, Intelligence Surveillance & Reconnaissance, Technology Development Unit, **United Nations Global Service Centre (UNGSC)**

Konstantin Bellini, Director, Security and Defence, **European Centre of Excellence for Countering Hybrid Threats**

Lieutenant-Commander Florin Constantinoiu, Head of Innovation & Research, **Romanian Navy HQ**

Elizabeth Heathfield, Chief Corporate Affairs and Communications Officer, **Financial Services Information Sharing and Analysis Center**

Captain Levent BAHADIR, WMD Staff Officer, **MARSEC COE**

Dr Tine Larsen, Senior Seismologist, **Geological Survey of Denmark and Greenland**

Carine van Bentum, Director, **SeaSEC**

Henri van Soest, Senior Analyst, **RAND Europe**

Ms. Guadalupe Megre, Officer in Charge (OiC), Special Projects and Innovation Branch (SPIB), **United Nations Office of Counterterrorism (UNOCT)**

Andrés Fígoli, Project Manager, **ITU**

George Drysdale, Director of Operations, **Alford Technologies**

Gabriel Gomez Celaya, CEO, **Marine Instruments**

CONFERENCE DAY ONE, 30 SEPTEMBER
NAVIGATING UNDERSEA CHALLENGES

The first day of the conference will address the current challenges faced by stakeholders involved in the protection of critical undersea infrastructure from across several industries. Briefs will examine existing threats in the underwater space and on the seabed, including deep-sea mining and incidents of sabotage against undersea cables. Day one of the conference aims to boost international collaboration across several sectors, and encourage private-public partnerships, enabling a multi-faceted approach to how stakeholders can balance the need for resilience, deterrence, and security.

0800	**REGISTRATION AND REFRESHMENTS**
0850	**DEFENCE iQ WELCOME** **Anisa Cousin,** Divisional Director, **Defence iQ**
0855	**CHAIRMAN'S OPENING REMARKS** **Rear Admiral (Ret'd) Eric Lavault,** Former Deputy Commander, French Surface Fleet for Seabed Warfare, **French Navy**

STRATEGIC OVERVIEW OF UNDERSEA OPERATIONS

The opening session will cover the strategic importance and operational considerations for undersea operations, highlighting advancements in doctrine and strategy. With the increasing size of infrastructure networks on the seafloor and the dependence on the networks for society, there is growing concern for the protection of critical undersea infrastructure. Methods to detect, anticipate, and respond to potential threats before they occur must evolve, along with new strategies involved in protecting and surveying the seabed.

0900	**KEYNOTE ADDRESS: GLOBAL CONTEXT FOR UNDERWATER OPERATIONS** • Key regions of high seabed activity, and their potential for threats and the use of MUS capabilities for operations • Progress in the integration of new technologies into seabed operations as observed through experimentation during REPMUS • Capability gaps highlighted during REPMUS, and their impact on the current threat picture for seabed infrastructure and emerging requirements for future underwater operations **Captain Nuno Ribeiro,** Director, CEOM, **Portuguese Navy**
0930	**PANEL DISCUSSION: PUSHING FORWARD OPERATIONAL CAPABILITIES: OBSERVATIONS FROM RECENT MISSIONS, EXERCISES, AND MILITARY PLANNING** • What are the existing capability gaps for underwater systems? • How can we bridge technology gaps through R&D? • How does NATO define capability requirements, particularly for the use of autonomous vehicles? • What do Nations and partners need to do to move beyond the regional commitment into a wider Atlantic focus? • How can we utilise multi-domain capabilities and resources outside defence to improve data sharing and decision making? • What feedback has been received from phase one of TFX-Baltic? • How can we continue to contribute to better operational readiness? Moderated by: **Rear Admiral (Ret'd) Eric Lavault,** Former Head of Seabed Control, **French Navy** Panellists include: **Colonel Claude Sanson,** DBH Requirement Determination and Engagement Section Head, **NATO ACT** **Rear Admiral Nuno de Noronha Bragança,** Coordinator, **Atlantic Centre** **Henri van Soest,** Senior Analyst, **RAND Europe** **Gabriel Gomez Celaya,** CEO, **Marine Instruments** Questions will be opened to the floor
1030	**MORNING COFFEE AND NETWORKING**

WIDER CONTEXT FOR SEABED SECURITY

Stakeholders must consider the broader implications of seabed security, including its impact on each sector and civilian activity, so this session will explore its critical role across various areas. By assessing the vulnerabilities of infrastructure and fully understanding the challenges faced by those operating cables, pipelines, and underwater power grids, the collective knowledge from multiple sectors can be used to discuss innovative solutions for the protection of this critical undersea infrastructure.

1100	**VIRTUAL: PROTECTING CRITICAL UNDERSEA INFRASTRUCTURE** • Addressing seabed security issues across multiple industries and sectors to provide a cohesive approach • Challenges faced by those operating and protecting critical undersea infrastructure • Building resilience for undersea infrastructure through collaboration with stakeholders **Captain Levent BAHADIR,** WMD Staff Officer, **MARSEC COE**
1130	**SEABED SECURITY: HARNESSING THE SME ADVANTAGE: "SECURING THE SEABED TODAY, WHILE BUILDING THE FLEET OF TOMORROW."** • The threat below the waves • The critical speed of SME innovation • Turning innovation into maritime advantage **George Drysdale,** Director of Operations, **Alford Technologies**
1200	**ENHANCING COLLECTIVE CUI SECURITY AND DETERRENCE AGAINST POTENTIAL SABOTAGE** • Surveillance: developing technical capabilities for threat detection and defence • Conducting joint training and exercises against hybrid threats • Fostering civil-military cooperation to integrate the commercial sector's capabilities **Commodore Kyrre Haugen,** Commander Norwegian Fleet, **Norwegian Navy**
1230	**NETWORKING LUNCH**

LEVERAGING INTERNATIONAL COOPERATION FOR INCREASED SECURITY

The task of protecting undersea infrastructure is made more complex due to the expansive network of cables and pipelines in vast and remote oceans, making it difficult to monitor and even harder to defend. No individual organisation can monitor and protect all seabed infrastructure, so collaboration with European and NATO allies will be essential to bolstering strategies to combat interference. Through the sharing of intelligence and capability development, stakeholders will increase their ability to detect threats and produce technology that can provide deterrence.

1330	**THE RN'S NEW LEADING ROLE IN PROTECTING THE UK'S CUI** • Preparing to deter maritime incidents • Line of effort for UK-led Joint Expeditionary Force • Collaboration with private sector on cable defence **Major General Paul Maynard OBE,** Director Strategy and Policy, Assistant Chief of the Naval Staff, **UK MoD**
1400	**HYBRID THREAT IN THE CONTEXT OF SEABED SECURITY** • Crafting a common understanding of hybrid threats and the strategies employed to counter them • Combining knowledge from research into technology, doctrine, and cyber power to address hybrid threats • The Centre's latest work in supporting nations as they define doctrine to combat hybrid threats **Konstantin Bellini,** Director, Security and Defence, **European Centre of Excellence for Countering Hybrid Threats**
1430	**AFTERNOON TEA AND NETWORKING**
1500	**ASSEMBLE FOR SITE VISIT** All conference attendees should meet at the registration desk to be guided onto buses and driven to the CEOM, for an exclusive tour, followed by the networking reception on the pier.
1515	**TRAVEL TO SITE VISIT (TRANSPORT PROVIDED)**
1530	**SITE VISIT TO THE PORTUGUESE NAVY'S NAVAL OPERATIONAL EXPERIMENTATION CENTER (CEOM)** All conference attendees are invited to visit the Portuguese Navy's Naval Operational Experimentation Center for a tour of the site, including the hangar, runway, and other experimentation facilities used during REPMUS 2025. Hear a brief from the Director of CEOM to discuss the work carried out by the centre and the opportunities to get involved with new research. Understand the current priorities for the Portuguese Navy's development and testing of innovative maritime capabilities.
1630	**NETWORKING RECEPTION AND LIVE DEMONSTRATION** All attendees are invited to join us to watch a live demonstration of a current USV on the pier. Enjoy seeing the most cutting-edge use of MUS capable of performing various tasks, including surveillance, reconnaissance, patrolling, SAR, MCM and more. 
1730	**RETURN TRANSPORT TO THE DESIGN HOTEL AND END OF DAY ONE**

CONFERENCE DAY TWO, 1 OCTOBER

LEVERAGING INNOVATION FOR SEABED OPERATIONS

Day two of the conference will focus on the strategies and technologies that can be used for improving knowledge of the seabed through underwater exploration, better monitoring of the underwater domain, and enhanced protection of seabed infrastructure by securing the ability to act underwater. This includes cutting-edge research into new capabilities to assist with operations. As new technologies emerge, stakeholders must be prepared to take advantage of them in order to face the challenges of an increasingly contested and vulnerable seabed.

0830	**REGISTRATION AND REFRESHMENTS**
0855	**CHAIRMAN'S OPENING REMARKS** **Rear Admiral (Ret'd) Eric Lavault,** Former Head of Seabed Control, **French Navy**

INTEGRATING NEW CAPABILITIES INTO UNDERSEA OPERATIONS

As new and improved deep-water capabilities emerge, security partners, the subsea cable industry, international bodies, government, and NATO's navies must also develop the necessary cohesive strategy for the adoption and integration of such technologies into their operations. Autonomous and uncrewed systems, sensing equipment, and surface vessels must cooperate fully in order to carry out effective and efficient operations.

0900	**MODERNISING THE PORTUGUESE NAVY** • Current priorities for the Navy as uncrewed systems become increasingly vital to the maritime domain • Advancements in underwater communications and uncrewed systems to improve maritime operations • Working with allies to assess requirements and integrate new developments into operations at pace **Captain Antonio Mourinha,** Innovation Advisor to the Chief of the Navy, **Portuguese Navy**
0930	**THE ROLE OF MUS IN GLOBAL COUNTER-TERRORISM** • UNOCT's AROS Programme: Supporting the integration of technology and innovation in national counter-terrorism efforts • Overview of AROS Capacity-Building • Phase I: Research and Integration of UAS into national counter-terrorism efforts • Phase II: UXS, Specialized Training, and Advanced Countermeasures Support • Exploiting Data and Uncrewed Systems for Maritime Operations • Research and Development of uncrewed naval systems for data collection and infrastructure protection • Utilising sonar data from underwater capabilities for maritime operations, including MCM and seabed warfare • Advancing technologies to support the integration of new systems into operations **Ms. Guadalupe Megre,** Officer in Charge (OiC), Programme Special Projects and Innovation Branch (SPIB), **United Nations Office of Counterterrorism (UNOCT)** **Arturo Ojeda Demaria,** UXS Specialist, Intelligence Surveillance & Reconnaissance, Technology Development, **United Nations Global Service Centre (UNGSC)**
1000	**CASE-STUDY: USV MAGURA** • Overview of maritime drones (USVs) in the UKR/RUS war • Real-world examples of operational usage of the MAGURA V-type including surveillance, reconnaissance, patrol, search and rescue, mine countermeasures, marine protection, and combat missions • Developing a potent uncrewed naval force **CAPT (N) RET João Fonseca Ribeiro,** Director, **UForce**
1030	**MORNING COFFEE AND NETWORKING**

ENHANCING SENSING AND MONITORING SYSTEMS

As underwater activity increases, nations are looking to expand their capabilities to detect activity around critical infrastructure, with smarter and more scalable solutions that can augment military patrols. New technologies, including progress from areas beyond the defence industry, must be integrated into systems to ensure that all activity is identified and attributed efficiently, to detect risks early and prevent damage before it happens.

1100	**LARGE SCALE SEISMOLOGICAL MONITORING OF SUBSEA ACTIVITIES USING EXISTING INFRASTRUCTURE** • Seismology's role in the monitoring and classification of seabed activity • Applying innovations in sensing to undersea cables to monitor damage and activity • Working with military stakeholders to ensure protection of infrastructure and identification of incidents **Dr Tine Larsen,** Senior Seismologist, **Geological Survey of Denmark and Greenland**
1130	**TESTING UNDERWATER SYSTEMS FOR INCREASED INNOVATION AND SECURITY** • Recent projects from SeaSEC on testing capabilities for underwater operations • Applications of new innovations for multiple sectors to ensure full coverage of vulnerabilities • Providing a realistic testing ground for the validation of maritime capabilities **Carine van Bentum, Director, SeaSEC**

CONFERENCE DAY TWO, 1 OCTOBER

LEVERAGING INNOVATION FOR SEABED OPERATIONS

1200

Submarine Cables Resilience

- Telecommunication Submarine cables: the hidden backbone of the global digital economy
- Global efforts to strengthen resilience and foster connectivity
- ITU and the International Advisory Body on Submarine Cable Resilience: driving inclusive multistakeholder action

Andrés Fígoli, Project Manager, ITU

1230 **NETWORKING LUNCH**

DEVELOPING UNCREWED SYSTEMS FOR UNDERSEA OPERATIONS

Uncrewed systems offer much potential to support seabed operations, including the protection, surveillance, and repair of critical infrastructure, however challenges remain with the number and capabilities of UUVs and creating greater autonomy of USVs. Their unique capabilities can reduce risks and improve operational efficiency, however stakeholders must also work to fully integrate them with existing capabilities to ensure success in underwater environments.

1330

VIRTUAL: OPTIMISING THE USE OF EQUIPMENT AND PERSONNEL IN THE MARITIME ENVIRONMENT

- Experimentation and testing of naval capabilities for the security of critical undersea infrastructure
- Integrating autonomy into naval operations as new capabilities emerge
- Supporting academia and industry partners to develop new maritime unmanned systems to conduct military environmental assessments

Lieutenant-Commander Florin Constantinoiu, Head of Innovation & Research, **Romanian Navy HQ**

1400

INTELLIGENCE SHARING TO PROTECT FINANCIAL INFRASTRUCTURE

- FS-ISAC's role in supporting the protection of undersea financial infrastructure through collaboration with members
- Assessing long-term threats and current incidents to provide a global intelligence picture
- Sharing intelligence across the globe to devise actionable procedures and keep services running when facing threats

Elizabeth Heathfield, Chief Corporate Affairs and Communications Officer, **Financial Services Information Sharing and Analysis Center (FS-ISAC)**

1430 **AFTERNOON TEA AND NETWORKING**

APPLYING THE LATEST TECHNOLOGIES ACROSS MULTIPLE SECTORS

Progress from all industries must be shared to ensure that all stakeholders can effectively protect their undersea infrastructure from threats. Many sectors are currently advancing their capabilities for the protection of undersea infrastructure, and the sharing of knowledge and advancements between sectors will allow greater efforts to be made to combat threats as intelligence can be shared to provide better responses.

1500

INTERACTIVE ROUNDTABLE DISCUSSIONS

TABLE 1: CROSS-SECTOR INNOVATIONS FOR INFRASTRUCTURE PROTECTION

- Working with colleagues in academia and industry to improve resilience of infrastructure
- Securing oil and gas infrastructure with other stakeholders to ensure continued supplies
- Discussing the applications of AI and robotics within the sector

TABLE 2: SECURING THE SEABED THROUGH INTER-AGENCY COLLABORATION

- Latest observations from exercises and research on critical undersea infrastructure
- The role of bringing together stakeholders from military, industry, and academia to deliver a coherent maritime security strategy
- Strategic approaches to protecting critical infrastructure as interest rises

TABLE 3: OVERVIEW: REPMUS 2025

- Key data and outputs from the testing of underwater uncrewed vehicles
- Informing NATO doctrine and policy with REPMUS observations
- Enhancing interoperability between allies and new systems through international exercises

1530

FEEDBACK FROM DISCUSSIONS AND CHAIRMAN'S CLOSING REMARKS

Rear Admiral (Ret'd) Eric Lavault, Former Head of Seabed Control, **French Navy**

1545 **END OF CONFERENCE**

SEABED SECURITY

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ABOUT DEFENCE IQ

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Website: https://www.explosives.net/

Marine Instruments is a Spanish technology company specializing in advanced electronic systems for marine and underwater environments. Founded in 2003 and headquartered in Galicia, it is a global leader in smart fishing technologies, ocean monitoring, and dual-use solutions for security and sustainability.A core strength is underwater acoustics, with solutions covering both active and passive sensing. Its active acoustic buoys, widely used in tropical tuna fisheries, emit sonar pulses to estimate fish biomass beneath drifting objects. Equipped with solar power, satellite communications, and AI-driven data analysis, they deliver real-time information to optimize fishing efficiency and sustainability. These same buoys are now being adapted for subsea infrastructure surveillance and maritime security missions. On the passive side, the Marine Acoustic Smart System (MASS), originally developed for aquaculture, detects, processes, and identifies the natural sounds produced by shrimp during feeding. This enables precise feed management and waste reduction. Adapted versions of this technology support stealth monitoring of underwater anomalies without emitting signals, ideal for protecting critical infrastructure.Complementing these systems is the M5D-Airfox, an unmanned aerial vehicle for maritime and coastal surveillance, currently in service on the Offshore Patrol Vessels (OPVs) of the Spanish Navy. It supports missions such as maritime surveillance, anti-smuggling, and environmental monitoring. Marine Instruments delivers innovative, reliable, and mission-ready solutions for both civilian and defense applications worldwide

Website: https://www.marineinstruments.es/

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As the world's leading Geo-data specialist, Fugro provides services for safeguarding critical underwater infrastructure and offshore assets around the world. We deliver maritime domain awareness by leveraging our cutting-edge technologies, expertise and remote and autonomous solutions, including uncrewed surface vessels, aerial drones, and automated underwater vehicles. Our maritime security and surveillance solutions are enhanced with high-quality data from trusted partners, including AI-enabled satellite imagery and data fusion technology. This integrated approach empowers clients with the intelligence needed to make confident, data-informed decisions.

Website: https://www.fugro.com/

Our company was established in 1991 for the provision of project management, system engineering and consultancy services to the Presidency of Defence Industries (SSB) and the Turkish Armed Forces (TAF) in fields requiring high technologies and in support of the national security of Türkiye. STM operates in a wide variety of areas, ranging from naval platforms to tactical mini-UAV systems, and from cyber security to satellite technologies, from radar systems to command and control systems and certification, consultancy. Aside from its role in many national projects being conducted by the Turkish defence sector, STM is also cooperating in export and business development activities in NATO and more than 20 countries. STM is the main contractor in Turkey's first national frigate program, TCG ISTANBUL (F-515), and is the manufacturer of the KARGU Rotary-Wing Attack UAV System. STM has also established Türkiye's first Cyber Fusion Centre. https://www.stm.com.tr/en

Website: https://www.stm.com.tr/tr

SEABED SECURITY

Defence iQ

30 September – 1 October 2025
Tróia Design Hotel, Portugal

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PASS INCLUDES: CONFERENCE DAYS (30 SEPTEMBER - 1 OCTOBER, 2025) | ACCESS TO PRESENTATIONS POST EVENT

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