



# COMBINED NAVAL EVENT

23-25 MAY 2023 | FARNBOROUGH, UK

## 2023 Speakers includes...



Rear Admiral (UH) Mihai  
Panait, Chief of the  
Romanian Naval Forces



Rear Admiral Keith  
Beckett, Deputy CEO,  
Submarine Delivery  
Agency



Commodore David  
Eagles, Commander,  
Royal Fleet Auxiliary



Vice Admiral Brad  
Cooper, Commander Fifth  
Fleet - US Navy



Vice Admiral Manuel Antonio  
Martinez-Ruiz, Director of  
Engineering Agency & Naval  
Communication, Spanish  
Navy



# Event Overview

This is the 10th iteration of this meeting, the second time we have co-located three events, and the first time we have launched our Surface Technology meeting. With the Naval Damage Control Event taking place at the same venue, this will maximise the benefit to our attendees. It is a pleasure to welcome you once more to Farnborough, which with its size and links will be our home for the foreseeable future. It will have been a year since we last met and the maritime environment is emerging as key priority for NATO and its partners. Future Surface Fleet developments, ensuring comprehensive Underwater Defence and Security, and maintaining world beating Submarine Technology and Surface Fleet Technology are central tenants to this. The combination of the four help countries to develop their maritime capabilities, ensure freedom of navigation is not threatened and when necessary, sea control and denial are achieved. Those with both a responsibility and interest in the Naval domain need to keep abreast of developments, both technical and geopolitical if advantage in this competed domain is to be maintained; failing to do so could have dire consequences and these are some of the focus areas of the four meetings:

## Underwater Defence & Security

This will be split across MCM and ASW in an essential, stand-alone area that merits the discrete focus this conference will provide. Delegates will be updated on trends and changes in the operations, tactical employment and sustainability of UW, surface and airborne Fleets, whilst considering the impact of the latest technological developments.

## Future Surface Fleet

This will analyse designing, building, modernising and sustaining fleets throughout their lifecycle. We will look at how to maximise platform availability with presentations from both a naval and industry angle and learn what needs to be done to enable Fleets to be delivered to time, quality and cost. The development and maintenance of trusting relationships between the supplier and customer will be at the forefront of issues in this challenging area.

## Submarine Technology

The unique capabilities of stealth, silence, lethality, endurance and deniability of submarines, allowing them to operate close to the threat, are a vital component in our defence and deterrence strategy. Sensor performance, combat systems and views on the significance of new technology and innovation within the development of new submarine capability will be shared. Sensors and Safety will feature heavily throughout, as well as survivability and materiel certification.

## Surface Fleet Technology

Following the feedback from 2022, we have narrowed the lens of our technological partners and enabling organisations to look solely at the options for developing capabilities for the surface. Looking at C2, materials, weapons, ISR and more, this promises to be one the must attend meetings for the surface community.



### Sponsors















# Previous Speakers



Dr Thomas Altshuler, Senior Vice President, Global Maritime Defense Strategy and Business Development – Teledyne Marine



Julie Angus, CEO – Open Ocean Robotics & NATO MUS Innovation Board Members



Commander Bernd Arjes, DEU/NOR Submarine Project Officer – German Navy



Vice Admiral Naveed Ashraf, Deputy Chief of the Naval Staff (Operations) – Pakistan Navy



Julian Barber, Information Management Campaign manager – Leonardo



Simon Barchard, VP Business Development – Teledyne Marine Imaging



Vice Admiral Keith Blount CB OBE, Commander MARCOM – NATO Maritime Command



Brigadier Sean Brady RM, Deputy Director Shipbuilding Programmes – Royal Navy



W01 (COXN) Ian Brown, SMERAS Head of Training – Royal Navy



Commodore (Ret'd) David Burton, Director of ASW Barrier Smart Defence Initiative



Lieutenant Commander Sehoon Cha, KSS-III Program manager – Republic of Korea Navy



Ed Cheesman, Senior Manager Sales and Business Development – Teledyne Marine



Commander Filip Clauwaert BN, Chief of Staff – NATO Mine Warfare COE



Vice Admiral Brad Cooper, Commander Fifth Fleet – US Navy



Dr Joseph Cotter, Research Associate – Imperial College London



Davide D'Alessio, Defence System Designer Coordinator – DRASS



Commander Ian Danbury, Deputy Director Music^2 – NATO



Dr Robert Dalsjö, Deputy Director of Research – Swedish Defence Research Agency



Dr Matt Darkin, Director Ships Acquisition Portfolio Manager & Ships Domain Obsolescence Lead – UK MoD DE&S



Per Fransson, A26/NGU Project Manager – FMV



Captain Matt Farr, Director – US Office of Naval Research



James Graves, MarLabs Senior Technologist – BAE Systems



Jack Green, Key Account Manager – Leonardo



Rear Admiral Hiroyuki Habuchi, Japanese Maritime Self Defence Force



Rear Admiral Paul Halton OBE, Director Submarine Support – Royal Navy



Rear Admiral Rhett Hatcher, UK National Hydrographer & Director Data Acquisition and Defence – UK Hydrographic Office



John Haworth, Senior Programme Manager, Future Systems – QinetiQ



Rear Admiral Jim Higham OBE, Director Ship Support – UK MoD DE&S



Professor Ed Hill OBE, Chief Executive – National Oceanography Centre



Lieutenant Commander Renauld Hock, Project Leader rMCM Programme – Belgian Navy



Neil Hunt, Senior Business Manager, Defence Research – Frazer-Nash Consultancy



Dr Rhett Jeffries, Technical Director – US Office of Naval Research



Rear Admiral Yong-ku Jun, Director General KSS-III Program – Republic of Korea Navy



Captain Christos Kalogrias, Surface Ships Program manager, HNGS Armaments Directorate – Hellenic Navy



Rear Admiral (Ret'd) Jonathan Kamerman, Head of Sales Surface – thyssenkrupp



Ralf Katscher, Sales Director for Naval and Governmental segment – RENK Group



# Previous Speakers



Dominic Kieran, Chief Executive of Babcock Nuclear



Andy Lapsley, Programme Manager – UK MoD DE&S



David Lockwood OBE, Group Chief Executive – Babcock International Group



Jim Luffman, UK Defence Unit Director – Northrop Grumman Corporation



Ewan Macpherson, Principal Engineer – JFD Limited



Professor David Manley, UK MoD Chair in Naval Architecture – University College London



Captain (N) Del McKnight RN, Deputy Commander CTF 52 – US Navy



Andrea Bell Miller, Program Executive Office Unmanned and Combatant Programme Director – US Navy PEO



Johnathan Milsom, Capability Director – TPG Services



Rear Admiral Steve Moorhouse OBE, Director Force Generation – Royal Navy



Vice Admiral (Ret'd) Alfredo Muradas, Chief Advisor of Science and Technology – Brazilian Navy



Flotilla Admiral George Penev, Commander – Bulgarian Navy



Commander Patrick O'Keeffe, Center for Asia-Pacific Strategy and Security – Kiel Security Centre



Rear Admiral Fredrik Palmquist, Chief of Navy Staff – Swedish Navy



Rear Admiral James Parkin, Navy Director Develop – Royal Navy



Matteo Perrone, Project Manager R&D – Swedish Defence Materiel Organisation (FMV)



Commander Joao Carlos Lourenco da Piedade, Head of Innovation Division – Portuguese Navy



Captain Vasco Pizzinato, Senior Combat System Officer, U212 NFS Programme Division – Italian Navy



Commander Benoit Plaisier, Command in Second – Expertise Maritime Patrol Center – French Navy



Guy Platten, Secretary General – International Chamber of Shipping



Vice Admiral (Ret'd) Duncan Potts CB, Former Commander UK Maritime Forces



Captain Giedrius Premencas, Commander – Lithuanian Navy



Jeremy Quin MP, Minister for Defence Procurement – UK Government



Commander Dov Raz, Head of Platform Developments – Israeli Navy



Lieutenant Commander Nick Samuels, International Submarine Escape and Rescue Operations Officer – NATO Maritime Command



Klaus Schmidt, Director Naval Application Engineering – Rolls Royce Solutions GmbH



Philip Schon, Head of Product Sales Submarines – thyssenkrupp



Robert Semmence, Capability Management Lead for Naval Sonar Engineering – ULTRA



Arild Skoge, Manager Business Development, Naval Systems – Kongsberg Defence & Aerospace



Nick Smith, Global Systems, Architectures and Customization Leader – GE



Commander Bruno Sola, Commanding Officer – FR Joint Support Center for Meteorology and Oceanography (CISMF)



Nick Swift, Chair Undersea Warfare Group – Society for Underwater Technology



Rear Admiral (Ret'd) Robert Tarrant CB, Former Commander Operations



Rear Admiral Jude Terry, Director People and Training & Naval Security – Royal Navy




Commander Sean Trevethan, Director MUSIC^2 – NATO



Commodore Peter van den Berg, Director Plans and Policy – Royal Netherlands Navy



# Day 1 Agenda – 23rd May 2023

6:15	<b>5km run from The Aviator Hotel</b> Sponsorship Available	
8:00	<b>Registration and Welcome Coffee</b> Sponsorship Available	
9:45	<b>Chairman's Opening Remarks</b> Presented by Vice Admiral (Ret'd) Duncan Potts CB, Former Commander UK Maritime Forces, Royal Navy	



**ALIGNING NAVAL STRATEGY AROUND A GLOBAL FORCE**

The importance of the maritime domain and consequently competition and potentially confrontation at sea is growing. Whether it is freedom of access for power projection, the opening of shipping routes, mineral and fishing exploitation, the ability to dominate the domain is a growing priority for many countries. A particular focus is on domination of the undersea domain, both militarily and for commercial advantage. The opening session will review some of these strategies around the globe.

09:00	<b>Ensuring the UK is ready to meet the capabilities of a modern Navy</b>
09:20	<b>Industry address: capability dominance in the maritime domain</b> Sponsorship Available
09:40	<b>1SL address: driving the RN strategy in line with our allies</b>
10:00	<b>Morning coffee and networking in the exhibition area</b> Sponsorship Available

**REFORMING FOR DEPLOYMENT**

The balance of blue water vs littoral activity is a key question for a Navy building its force. Whatever its activity, there is a technical evolution happening that can be embraced. This starts with partnerships, be it home grown industry or allied projects and these sessions will outline some of the key questions on how a Navy aligns its force.

11:00	<b>Driving US changeability with its partners</b> Presented by Vice Admiral Brad Cooper, Commander Fifth Fleet, US Navy	
11:20	<b>Integrating industry innovations at a more rapid pace for operational effect</b> Sponsorship Available	
11:40	<b>The changing role of the Spanish Navy in ensuring global security</b> Presented by Vice Admiral Manuel Antonio Martinez Ruiz, Director of Engineering and Naval Construction, Spanish Navy	

<b>12:00</b> <b>Lunch and Networking in the Exhibition Area</b> Sponsorship Available	<b>12:00</b> <b>Lunch and Networking</b> Sponsorship Available	<b>12:00</b> <b>Lunch and Networking</b> Sponsorship Available
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# Day 1 Agenda – 23rd May 2023

## FUTURE SURFACE FLEET











Canada, Spain, Netherlands, Italy, Norway, Germany, France, Turkey, Poland, the UK and the US are all running significant ship projects. This sets the scene for an exciting three days of insights and opportunities that will galvanise surface capabilities across the globe. Whether its large build or small boat acquisition, there will be a host of current and future case studies for countries to learn from and utilise the lessons.

## UNDERWATER DEFENCE & SECURITY

Welcome to the start of three days of themed presentations focussing on underwater strategy, capabilities and technologies that will help us understand the latest Naval developments from around the world. NATO high-end ASW and MCM capabilities have atrophied since the 1990s with substantial reductions in force structure. This has been recognised and there are now a significant number of programmes to regenerate capacity.

## TECHNOLOGY SESSIONS







Gone are the days where military lead industry in the development of technical solutions. Modern day navies are using and exploiting commercial off-the-shelf solutions (COTS) and modified off-the-shelf solutions (MOTS) to become and remain a battle winning force. Nevertheless, boundless opportunities remain for bespoke solutions and following the success of our Submarine Technology meeting we have added a Surface Fleet Technology element to ensure all those can extract maximum value.

Conference A: Future Surface Fleet Location: FSF Theatre A Shipbuilding and National Strategies		Conference B: Future Surface Fleet Location: FSF Theatre B Offboard systems		Conference A: Underwater Defence & Security – MCM Location: UDS Theatre A Delivering mine protection		Conference B: Underwater Defence & Security – Unmanned Systems Location: UDS Theatre B Offensive submarine activity		Submarine Technology – New Programmes Location: ST Theatre ‘Developing next generation UW deterrence’		Surface Fleet Technology – New Programmes Location: SFT Theatre Propulsion and minimising vibration	
With many in-service vessels nearing the end of their useful lives, new ships fitted with cutting edge technology are the preferred option for an increasing number of nations. This section reviews current programs that will allow navies to meet modern threats whilst facilitating these new builds.		Offboard systems must be capable of meeting predicted future threats but it’s challenging to define these at the start of a vessel’s life. Navies seek to push the limits of these systems and develop novel solutions to be integrated on-board with increasing trends towards modular systems and open architectures allowing for flexibility as threats evolve.		The Underwater community has had plenty of focus on ASW but the persistent, most likely and most dangerous course of action comes from mines and maritime IEDs. This session will dissect both the threat and their potential solutions.		The most feared asset to Naval Fleets is still submarines and the day will commence with an analysis of some of the essential UW capabilities, where they are emerging from and how best nations can find and prosecute targets.		The increasing complexity of the underwater arena has led many countries to address their subsurface capabilities. Several countries are turning to joint programmes to achieve advanced submarines at reduced cost. The agenda will open with a section addressing the upcoming and ongoing submarine programmes around the world.		Propulsion systems are an early consideration in platform design and recent high-profile failures have highlighted how critical it is to get this right. This section will analyse advances in the use of hybrid systems and the impact of alternative power systems on reducing vibration as well.	
13:50	<div>Chairman's Opening Remarks</div> <div>Presented by Pippa Bostock, Centre for Creative and Immersive XR, University of Portsmouth</div> <div></div>	13:50	<div>Chairman's Opening Remarks</div> <div>Presented by Vice Admiral (Ret'd) Paul Bennett CB, OBE, Former ACNS (Capability), Royal Navy</div> <div></div>	13:50	<div>Chairman's Opening Remarks</div> <div>Presented by Vice Admiral (Ret'd) Duncan Potts CB, Former Commander UK Maritime Forces, Royal Navy</div> <div></div>	13:50	<div>Chairman's Opening Remarks</div> <div>Presented by Commodore (Retd) David Burton, Director, NATO ASW Barrier Programme</div> <div></div>	13:50	<div>Chairman's Opening Remarks</div> <div>Presented by Rear Admiral (Ret'd) Robert Tarrant CB, Former Commander Operations, Royal Navy</div> <div></div>	13:50	<div>Chairman's Opening Remarks</div> <div></div>
14:00	<div>The T26 programme update</div> <div></div>	14:00	<div>Project VAMPIRE: challenges for future maritime operations</div> <div></div>	14:00	<div>The current and anticipated situation for naval mine warfare and how it will be countered</div> <div></div>	14:00	<div>US Programme Executive Office and its work in underwater activities</div> <div></div>	14:00	<div>Overcoming key challenges to the lifecycle of Spain's S80+</div> <div>Presented by Commander Carlos Pasquin, Programme S80 Operational Area, Spanish Navy</div> <div></div>	14:00	<div>How propeller design and propulsion systems affects a naval ship's operational capabilities</div> <div></div>
14:30	<div>Identifying future trends and designs in warship design</div> <div>Hosted by BAE Systems</div> <div></div>	14:30	<div>Challenges and lessons learned while integrating new Combat Systems</div> <div>Hosted by General Atomics</div> <div></div>	14:30	<div>Opportunities for minehunter modernisation</div> <div>Hosted by ECA Group</div> <div></div>	14:30	<div>How artificial intelligence and digital solutions can be used to pre-empt through life issues to drive cost savings</div> <div>Hosted by ATLAS ELEKTRONIK UK</div> <div></div>	14:30	<div>The impact of Netherlands Navy underwater capability programmes</div> <div>Sponsorship Available</div>	14:30	<div>Shaping next generation of digital and smart solutions around advanced threats</div> <div>Sponsorship Available</div>
15:00	<div>Update on the Canadian surface modernisation programme</div> <div></div>	15:00	<div>Developing modular defensive systems to increase lethality and survivability</div> <div></div>	15:00	<div>MCM replacement programme of the Belgian and Royal Netherlands navies</div> <div></div>	15:00	<div>Enhancing Fleet survivability via increased ASW Barriers</div> <div></div>	15:00	<div>From Gotland through to A26: Developing submarine programmes with Sweden and its partners</div> <div></div>	15:00	<div>Multi-disciplinary technologies impacting future naval platforms and sustainability</div> <div></div>

15:30

Afternoon Coffee and Networking in the exhibition Area  
Hosted by Leonardo



Shipbuilding and National Strategies continued		Automation and Lean Operating		Technology improving MCM delivery		Achieving multistatic ASW		Submarine systems development		Surface systems and sensors	
The first session this afternoon looked at in-service vessels nearing the end of their useful lives and how new ships fitted with cutting edge technology are the preferred option for an increasing number of nations. This next session looks at the support strategies and wider investment that will facilitate these new builds.		As nations aim to increase autonomy in their future fighting forces to reduce risks to personnel, questions about its possible applications arise. The development and integration of man-in-the-loop and independent systems has increased understanding of the potential applications of AI technologies This section will explore how autonomous systems are altering the naval battle ground now and in the future.		Achieving greater efficiency to improve MCM means the utilisation of technologically advanced solutions; management of data, destruction at source and exploitation. This session will highlight some novel solutions for the problems.		Maritime forces require defence in all environments, but particularly from submarines. Force protection requires rapid abilities to detect and destroy, ideally via a network of sensors and this session will dissect some of the essential components.		The aim of the first day of the main conference will be to address the current threat picture and how to ensure underwater Fleets are synched to achieve their missions. It will encompass stealth, propulsion, C4ISR, combat systems and navigation; looking to enable discussion about current challenges, how these are being overcome and how best to ensure collaboration, both internationally and with industry, going forward.		Maritime forces require defence in all environments, but particularly from submarines. Force protection requires rapid abilities to detect and destroy, ideally via a network of sensors and this session will dissect some of the essential components.	
16:15	<div>Integrating multi-role vessels into the fleet</div> <div>Presented by Rear Admiral UH Mihai Panait, Chief, Romanian Naval Forces</div> <div></div>	16:15	<div>The evolving role of AI in navies</div> <div></div>	16:15	<div>Current MCM missions and how experimentation is improving response</div> <div>Presented by Captain Del McKnight RN, Deputy Commander Task Force 52, US Navy</div> <div></div>	16:15	<div>Accelerating allied interoperability across platforms and domains</div> <div>Presented by Commodore Andy Perks, Navy Develop: Deputy Director Underwater Battlespace Capability, Royal Navy</div> <div></div>	16:15	<div>Update on the Italian U212 Near Future Submarine Program</div> <div></div>	16:15	<div>Maintaining maritime security operations in a contested and hostile environments</div> <div></div>
16:45	<div>Cost effective solutions to maximise ship survivability</div> <div>Hosted by Pall Europe</div> <div></div>	16:45	<div>Utilising distributed external and internal sensors for optimised situational awareness</div> <div>Hosted by Frazer-Nash Consultancy Ltd</div> <div></div>	16:45	<div>Expanding MCM capabilities using novel commercial sensors and solutions</div> <div>Hosted by Teledyne Marine</div> <div></div>	16:45	<div>ASW integrated into the system of systems throughout the design process</div> <div>Sponsorship Available</div>	16:45	<div>Effective combat systems for use in a congested operating environment</div> <div>Hosted by Frazer-Nash Consultancy Ltd</div> <div></div>	16:45	<div>Investigating solutions for submarine navigation through utilisation of multiple sensors</div> <div>Sponsorship Available</div>
17:15	<div>The RAN surface fleet programme update</div> <div></div>	17:15	<div>AI and Human-machine teaming for maximum capability</div> <div></div>	17:15	<div>Introducing Maritime Autonomous Systems to upgrade Mine Hunting Capability</div> <div></div>	17:15	<div>Update on CMRE trials and the impact on UW protection</div> <div></div>	17:15	<div>Norway's preparations for the support and arrival of the Type 212CD</div> <div></div>	17:15	<div>Integration of space-based data to enhance maritime operations</div> <div>Presented by Commander Patrick O'Keeffe, SO Space Operations, NATO COE CSW</div> <div></div>

18:00

Evening networking and drinks reception  
Sponsorship Available

18:00

Evening networking and drinks reception  
Sponsorship Available

18:00

Evening networking and drinks reception  
Sponsorship Available

19:45

Evening networking and drinks reception closes





# Day 1 Private Briefings – 23rd May 2023

## EXCLUSIVE PRIVATE BRIEFINGS

**Located in Navigator boardroom: by invitation only (for information please contact the Defence Leaders Team)**

Following the success of a series of private briefings run concurrently with the programme, Defence Leaders is delighted to be able to offer bespoke, confidential meetings to a select group of attendees. Whilst attendance is predominately by invitation only, please contact our team for consideration should you want to attend.

14:00 – 15:30	<b>21st Century maritime engineering</b> We have two strategic defence assets; Belfast and Appledore, that provide significant ship-build capacity for MoD requirements. With a wealth of experience across many national programmes including the ANZAC class and Canadian patrol, we want to discuss the latest challenges, success stories and see how we can best support. Hosted by Harland & Wolff Group Holdings plc	
16:15 – 17:45	<b>The challenges and opportunities of accommodating a Submarine Rescue System onto a vessel</b> JFD serves the commercial and defence markets with innovative diving, submarine and hyperbaric rescue, technical solutions and services. Operating worldwide, we're the world's leading provider of submarine rescue capability and an established provider of submarine escape training. We provide defence products and systems to both the MCM and special operations diving communities. Hosted by JFD	

# Day 2 Private Briefings – 24th May 2023

7:15 – 8:45	<b>Session 1</b> Sponsorship Available
9:00 – 10:30	<b>Session 2</b> Sponsorship Available
10:45 – 12:15	<b>Session 3</b> Sponsorship Available
12:30 – 14:00	<b>Session 4</b> Sponsorship Available
14:15 – 15:45	<b>Session 5</b> Sponsorship Available
16:00 – 17:30	<b>Session 6</b> Sponsorship Available

# Day 3 Private Briefings – 25th May 2023

9:00 – 10:30	<b>Session 1</b> Sponsorship Available
11:15 – 12:45	<b>Session 2</b> Sponsorship Available



# Day 2 Morning Agenda – 24th May 2023

06:15  
5km run from The Aviator Hotel  
Sponsorship Available

08:00  
Registration and welcome coffee  
Sponsorship Available

## FUTURE SURFACE FLEET

## UNDERWATER DEFENCE & SECURITY

## TECHNOLOGY SESSIONS

Future Surface Fleet Location: Theatre A Future programmes		Future Surface Fleet Location: Theatre B Design		Underwater Defence & Security Location: Theatre A Harnessing the potential of UW systems		Underwater Defence & Security Location: Theatre A Improving UW operations and support		Submarine Technology Location: Theatre XX Raising standards in underwater communications		Surface Fleet Technology Location: Theatre B Opportunities in the surface communications arena	
Mixed armaments seem to be the solution to most Navies struggling to meet their varied mission demands. This session will explore some of the Frigate programmes taking advantage of this.		Getting the design phase right is the start of a process that aids military capability directly and national export opportunities indirectly. The opposite is also true so this session will explore best practise around making the best of this area.		Platforms that can find, identify, and track UW targets must be fully integrated into our ASW system of systems. This session will identify cross-industry benefits, the technology to help them and steps countries are taking to acquire them.		Militarys are looking to push their UW abilities with innovative solutions that can be mounted on-board. This section looks at the work that nations are doing to prepare their vessels for future operations and the solutions that are available to them.		With the attenuation of signals from saltwater communications are incredibly slow by today's standards. They are susceptible to disruption, spoofing and interception so new technologies are being developed to overcome these vulnerabilities.		Militarys are looking to push their signals ability with innovative solutions that are exploiting the civilian sectors. This section looks at the work nations are doing to upgrade and replace their overwater capabilities to ensure fleets remain informed and prepared for operations.	
8:50	<b>Chairman's Opening Remarks</b> Presented by Pippa Bostock, Centre for Creative and Immersive XR, University of Portsmouth	8:50	<b>Chairman's Opening Remarks</b> Presented by Vice Admiral (Ret'd) Paul Bennett CB, OBE, Former ACNS (Capability), Royal Navy	8:50	<b>Chairman's Opening Remarks</b> Presented by Commodore (Retd) David Burton, Director, NATO ASW Barrier Programme	8:50	<b>Chairman's Opening Remarks</b> Presented by Vice Admiral (Ret'd) Duncan Potts CB, Former Commander UK Maritime Forces, Royal Navy	8:50	<b>Chairman's Opening Remarks</b> Presented by Rear Admiral (Ret'd) Robert Tarrant CB, Former Commander Operations, Royal Navy	8:50	<b>Chairman's Opening Remarks</b>
9:00	<b>The unique demands of operations in the Baltic regions</b>	9:00	<b>Designing the next generation of the Hellenic Navy's surface fleet</b> Presented by Commander Yonatan Kudish, Head of Platform Development Branch, Israeli Navy	9:00	<b>Feedback from Portugal's REPMUS 2022 Innovation programme and impact on defence</b>	9:00	<b>Back to the GIUK gap for a 4th Battle of the Atlantic?</b>	9:00	<b>Overcoming underwater communication challenges through sonar</b>	9:00	<b>Challenges of defence and security in the western pacific</b>
9:30	<b>Future power solutions for frigates</b> Hosted by ABB Marine	9:30	<b>Balancing innovation risks vs costs during the design phase</b> Sponsorship Available	9:30	<b>Expanding MCM capabilities using novel commercial sensors and solutions</b> Hosted by JFD Limited	9:30	<b>Balancing innovation risks vs costswhen exploiting UW operations</b> Hosted by General Dynamics Maritime and Autonomous Systems	9:30	<b>Satellite communications for submarines</b> Sponsorship Available	9:30	<b>Future maritime capability development</b> Sponsorship Available
10:00	<b>Considerations for the development of T32</b>	10:00	<b>Building international partnerships to achieve innovation in naval-relevant solutions</b>	10:00	<b>Opportunities from the commercial sector for military applications</b>	10:00	<b>Building international partnerships to achieve innovation in naval-relevant solutions</b>	10:00	<b>Enabling secure communications between AUVs/UUVs and submarines</b>	10:00	<b>The use of EW and SATCOM to enhance support to surface operations</b>

10:30  
Coffee and Networking  
Hosted by JFD Limited

Vessel power solutions		Digital Shipyards of the Future		Modular mission considerations		Expanding the role of fixed wing airborne assets		Navigation		Interoperability for strike operations	
The backbone of a ship, efficient power supply ensures mobility and manoeuvrability. There are significant moves to address how this power is provided and this session will explore them in more detail.		There has been a significant shift in shipyards toward digital systems, such as digital twins, modelling and 3D printing to increase quality whilst reducing build time and costs. This section examines the exploitation of these technologies for an optimal Future Surface Fleet.		From enhancing operational flexibility to preparing for power hungry UW sensors, modern communication systems and high-tech diving equipment, nations now are looking even further ahead to anticipate new threats and enable better modularity.		Airborne assets are a significant boost to the ASW capability of a Fleet. Recent incursions into EEZs have highlighted the need for international co-operation, andthis session will identify what factors can aid in maximising the abilities of airborne ASW.		Underwater topography, internet cables, fishing nets and other submarines are allhuge threats to safe submarine operations. The solutions demand improved navigation safety, intelligence gathering and mission equipment that aids tactical situation assessments. This section will discuss the current innovations in tactical and navigation technology.		Recent events have highlighted the effects of diminishing numbers of MPAs/ MPHs, resulting in Fleets being vulnerable to surveillance and ultimately attack. This session will examine how modular tools can continue to be a key contributor for ASW and surveillance. It aims to identify potential improvements in current capabilities and what transitions are necessary for the future.	
11:15	<b>The development of future logistics ships to support expeditionary task groups</b>	11:15	<b>Harnessing digital tools through design, build and support</b>	11:15	<b>Developing fleets suited for a smaller maritime state demands</b>	11:15	<b>Enhancing range/ distance/ accuracy of maritime patrol via unmanned support</b>	11:15	<b>The use of underwater networks to aid deconfliction</b>	11:15	<b>Exploring the synergies between military and commercial shipping</b>
11:45	<b>Current industry solutions to support auxiliary fleets</b> Hosted by General Electric	11:45	<b>A shipbuilding revolution, enabled by digital</b> Hosted by Thales	11:45	<b>Future proof containerized multi mission modules</b> Presented by Chris Lade, Defence Sales Manager, SAAB Dynamics AB	11:45	<b>How HII is bolstering capabilities from the air</b> Sponsorship Available	11:45	<b>Submersible diver delivery innovations</b> Hosted by Drass Galeazzi Underwater Technology	11:45	<b>Realising a distributed future maritime force for strike operations</b> Sponsorship Available
12:15	<b>Boosting European demand for power solutions</b>	12:15	<b>Australia's perspective on shipyard innovations</b>	12:15	<b>Future modular suggestions from the Naval Mine Warfare Centre of Excellence (NMW COE)</b>	12:15	<b>Future of ASW Maritime Aviation; role of UAV/MPA in future ASW</b>	12:15	<b>Disabled submarine search and localization through unmanned vehicles</b> Presented by Bill Orr, Director Submarine Survivability, Escape and Rescue, US Submarine Force Pacific	12:15	<b>Realigning allied deployments and adaptations that have to happen</b>







12:45  
Lunch and Networking in the Exhibition Area  
Hosted by DAVIE Shipyard

12:45  
Coffee and Networking  
Sponsorship Available

12:45  
Lunch and Networking  
Sponsorship Available









# Day 2 Afternoon Agenda – 24th May 2023

FUTURE SURFACE FLEET		UNDERWATER DEFENCE & SECURITY		TECHNOLOGY SESSIONS							
<div>Future Surface Fleet</div> <div>Location: Theatre A</div> <div>Energy storage</div> <div>The need for ships to remain mission capable in hostile environments must be factored in the design process. Furthering a ship's survivability is essential to gaining the upper hand whether it be through structural consideration or reducing your ship's signature. This stream will explore why design and survivability are so key.</div>		<div>Future Surface Fleet</div> <div>Location: Theatre B</div> <div>Through Life Support</div> <div>Supporting naval vessels through service is complex and costly. With many navies being asked to make efficiencies, attention turns to methods of reducing downtime and costs during support. Planned and pre-emptive maintenance as well as methods for extending the service of platforms with mid-life upgrades form the focus of this session.</div>		<div>Underwater Defence &amp; Security</div> <div>Location: Theatre A</div> <div>Special operations</div> <div>A proliferation of underwater threats highlights the requirement for an increase use of special operations. Some new programmes are phasing out organic ASW capabilities completely in favour of divers and swimmer delivery vehicles. This session will consider the contribution of new technology, its integration and fusion with current systems.</div>		<div>Underwater Defence &amp; Security</div> <div>Location: Theatre A</div> <div>Enabling C2 via robotics</div> <div>The morning so far has outlined some of the technological challenges. This afternoon session will focus on the challenge of integrating MUS whilst ensuring C2 into the fighting force.</div>		<div>Submarine Technology</div> <div>Location: Theatre XX</div> <div>Combat systems</div> <div>There is a plethora of new threats to safe and secure submarine operations including supercavitating torpedoes, enhanced surface sonar processing and increasingly complex intelligence collection platforms. Combat systems must be updated frequently to take advantage of new innovations and technologies.</div>		<div>Surface Fleet Technology</div> <div>Location: Theatre B</div> <div>Combat Systems</div> <div>Militaries are looking to push their UW abilities with innovative solutions that can be mounted on-board. This section looks at the work that nations are doing to prepare their vessels for future operations and the solutions that are available to them.</div>	
14:00	<div>Case Study: Vessel design and energy use</div>	14:00	<div>Project RENOWN update: lessons and challenges</div> <div>Presented by Rear Admiral Jim Higham, Director Ship Support, UK MoD DE&amp;S</div> <div></div>	14:00	<div>Interchangeable and fast solutions for SF operations in littoral operations</div>	14:00	<div>Integrating unmanned systems into the maritime task force</div>	14:00	<div>Applying incremental development concepts to the Jangbogo-III Program</div>	14:00	<div>Developing next generation weaponry through smart solutions</div>
14:30	<div>Energy considerations in the design phase</div> <div>Hosted by RENK GmbH</div> <div></div>	14:30	<div>Supporting ships air operations with innovative approaches to support</div> <div>Sponsorship Available</div>	14:30	<div>Update on changes to the HBK special operations support</div> <div>Hosted by Ultra Group</div> <div></div>	14:30	<div>The Digital Ocean and impact on military applications</div> <div>Presented by Thomas Altshuler, SVP Defense Strategy and Business Development, Teledyne Marine</div> <div></div>	14:30	<div>Submarine systems, one step ahead of threats</div> <div>Hosted by DNV</div> <div></div>	14:30	<div>Future developments in complex combat systems</div> <div>Presented by Andrew Obolensky, Head of Sales and Product Management, Rohde &amp; Schwarz UK Ltd</div> <div></div>
15:00	<div>Implementing energy solutions during the build phase</div>	15:00	<div>Harnessing data to develop support strategies</div>	15:00	<div>National perspective: Integrating SOF systems, tactics, training and procedures into operations</div>	15:00	<div>MUS Force Integration</div>	15:00	<div>Update on the Canadian patrol submarine programme</div>	15:00	<div>Rapidly upgrading defensive combat systems</div>

15:30

Afternoon Coffee and Networking in the Exhibition Area  
Hosted by ABB Marine



<div>Impact of new power solutions</div> <div>The persistent threat to Naval Fleets is causing many to acquire new ships that have enhanced capabilities. These have impacted most areas of the ship and this session will look at some of the biggest effects in the development of power capabilities and where they are emerging from.</div>		<div>Multi domain integration</div> <div>This session will address the differing ongoing mission types, whilst ensuring Fleets are synched across allied forces to achieve mission success. This will enable discussions about current challenges, how these are being overcome and how to ensure best collaboration, both internationally and with industry, going forward.</div>		<div>Naval opportunities to enhance support</div> <div>NATO continues to work with partners to address maritime challenges and explore potential integrated, interoperable, interchangeable, uncrewed solutions. This morning focuses on the underwater domain, unmanned systems and potential solutions to achieving warfighting dominance.</div>		<div>Maximising UW Command and Control</div> <div>Forces that have both the capability and intention to disrupt allied activity are driving significant interest and investment in technology developments. Innovation is increasingly being sought from industry; this session will seek realistic solutions.</div>		<div>Off board effects</div> <div>The expansion of undersea activities have increased the global availability of low-cost undersea platforms and data from undersea research networks that can potentially compromise Navy's undersea operations. This session will look at the array off board effects this has resulted in.</div>		<div>UxV Support to surface Fleets</div> <div>Air and surface vehicles are an increasingly important element of surface warfare, with unmanned and autonomous elements providing increasing amounts of ISR and support, including replenishment. This session will explore how far these plans have progressed and what the next step may be for the future.</div>	
16:15	Plans for the T32 and how it will be exploiting surface technology	16:15	Accelerating innovation in artificial intelligence into Fleet operations	16:15	Autonomous Distributed Networks	16:15	Brazilian R&D on future UW systems	16:15	Managing the evolution of combat system technology as part of the submarine life cycle	16:15	Why the Royal Navy heavy lift challenge could permanently change how we operate
16:45	Power generation technology for the future surface combatant Hosted by Rolls Royce 	16:45	Shaping next generation of digital and smart solutions around advanced threats Hosted by Leonardo 	16:45	Developments in modular MCM technology Hosted by Huntington Ingalls Industries 	16:45	LATVIAN NAVY Minehunter modernisation with UMIS MCM system (needs to be on ASW) Presented by Arild Skoge, Manager Business Development, Naval systems, Kongsberg Defence & Aerospace 	16:45	Safeguarding essential components Hosted by Scientific Management International Limited 	16:45	Developing multi-mission organic USVs to compliment surface operations Sponsorship Available
17:15	A shipyard's role in supporting the introduction of technology into Naval new builds	17:15	Overcoming the challenges of integration during the ASW in the Baltics	17:15	Bulgarian military capabilities: closing the gap from technology development to integration at sea	17:15	Persistent undersea surveillance and connectivity	17:15	Considerations for combat system development aboard the Suffren class SSN	17:15	Exploiting commercial activities in the UxV domain

18:00

Evening networking and drinks reception  
Sponsorship Available

18:00

Evening networking and drinks reception  
Sponsorship Available

18:00

Evening networking and drinks reception  
Sponsorship Available

19:45

Evening networking and drinks reception closes



# Day 3 Agenda – 25th May 2023

06:15

5km run from The Aviator Hotel  
Sponsorship Available

08:00

Registration and welcome coffee  
Sponsorship Available

## FUTURE SURFACE FLEET

### Future Surface Fleet Location: Theatre XX Replenishment at Sea

Force projection requires fleets to increasingly operate on a global scale far from friendly ports. This means Replenishment at Sea is an essential evolution for sustaining a platform's ability to operate and if necessary, fight. This section of the agenda looks at developments in tankers and support vessels.

### Future Surface Fleet Location: Theatre B Small boat programmes

Large vessels are the jewel in the crown for all Navies but there are a plethora of smaller boats that enable full capabilities on board. Whether for piloting, resupply or amphibious operations, there is increasing attention on the role of small boats to support surface operations and this session will analyse the opportunities...



## UNDERWATER DEFENCE & SECURITY

### Underwater Defence & Security Location: Theatre A Diving and EOD

All those that play a part in Underwater Defence & Security face some common issues; the need for closer inspection of problem areas, often whilst remaining undetected and resupply being just a few. This session looks at the role of getting divers delivered to areas to deliver mission effects.



### Underwater Defence & Security Location: Theatre B Improving rotary wing operations and support

Whether operating from land or sea, airborne assets are a significant boost to the ASW capability of a Fleet. Recent incursions into exclusive economic zones have highlighted the need for international co-operation, and this session will identify what factors can aid in maximising theabilities of airborne ASW.

## TECHNOLOGY SESSIONS

### Submarine Technology Location: Theatre XX Submarine Technological Developments

Maintaining an effective, safe and operational capability is a task becoming increasingly supplemented by modular and digital solutions. The utilisation of these methods and the employment of these digital solutions within this area reduces downtime, failure of parts and accidents. This section of the agenda will focus on how solutions can aid navies in maintaining their submarines and stimulate discussions on what commercial solutions are available.

### Surface Fleet Technology Location: Theatre XX Hybrid Systems and Sustainability

New fuels and emerging green technologies are enabling fleets to reduce fuel and maintenance costs as well as become more sustainable, meeting their national objectives to reduce greenhouse gas emissions. However, it's important for navies to balance 'going green' with operational effectiveness and they must ensure that hybrid solutions are robust enough for the rigours of combat.

8:50	Chairman's opening remarks	8:50	Chairman's opening remarks Presented by Vice Admiral (Ret'd) Paul Bennett CB, OBE, Former ACNS (Capability), Royal Navy	8:50	Chairman's opening remarks Presented by Vice Admiral (Ret'd) Duncan Potts CB, Former Commander UK Maritime Forces,	8:50	Chairman's opening remarks Presented by Commodore (Retd) David Burton, Director, NATO ASW Barrier Programme	8:50	Chairman's opening remarks Presented by Rear Admiral (Ret'd) Robert Tarrant CB, Former Commander Operations, Royal Navy	8:50	Chairman's opening remarks
9:00	Collaborative approaches in developing support ship programmes and in-service support Presented by Commodore David Eagles, Commander, Royal Fleet Auxiliary	9:00	Overcoming the limitations of standard design in smaller vessels	9:00	Plans for diver sensors to improve the scope of UW missions	9:00	Changing operations and subsequent demand on operators and sensors	9:00	Project Resolution and the impact on UK submarine readiness	9:00	Exploring the synergies in sustainability between military and commercial shipping
9:30	Enhancing availability of vessels at sea Sponsorship Available	9:30	Creating an effective model for fielding small boats Hosted by NVL B.V & Co KG	9:30	Maximising EOD information sharing Hosted by BAE Systems	9:30	Developments from the Swedish NH-90 ASW program Sponsorship Available	9:30	Maintaining submarine performance through effective Smart Controls Sponsorship Available	9:30	Alternative communication systems to help UxV support for Naval vessels Sponsorship Available
10:00	The future of support-ships and their role in tomorrow's Navy	10:00	Foreign military sales programmes of interest to enhance small boat operations	10:00	Overcoming issues of EOD search in existing systems	10:00	Future ASW as part of the US Airborne rotary ISR programme	10:00	French Fleet Support Service – Mission and organization to guarantee the availability of SSN fleet	10:00	Considerations for hybrid energy solutions aboard modern Naval Fleets

10:30

Coffee and Networking  
Sponsorship Available

### Technology and the role of automation

Technology is revolutionising Navies, and it is automation that is enabling it. Recent mistakes have often been down to human error, so decision-assisting systems and processes are an attractive prospect.

### Crew protection and safety

With the rise in weapon lethality, including hypersonic and laser options interest in ship/crew protection has risen significantly. This can be an array of passive vs active systems and this session will explore some for the options.

### Ensuring complete UW protection

Off board, remote, unmanned and autonomous technology present opportunities to either supplement or replace conventional systems and increase capabilities. This session will analyse some available, whilst considering their potential impact on the underwater battlespace.

### Future technology and weapons

Lethality is high on the list of priorities for those looking at Naval capabilities, but full operational dependency is thwarted by complexity and issues of liability. Thought must be given to the maturity of these systems and this session will explore some of lessons.

### Safety and rescue

Particular focus is being paid to improving human factors and ensuring safety for crews, be that oxygen levels, temperature, layout of working environment or escape methods. The final session will pull together the lessons from the event and impact on current and planned programmes.

### Air assistance to surface fleets

Manmade and natural interference creates a cluttered environment where enemy forces can easily conceal their position. Rotary aircraft augment surface lethality through precision and enabling over-the- horizon attacks. This section examines current technological developments and strategies to maintain a dominant forceposture.

16:15	Distributing sensing aids both internally and externally for optimised performance	16:15	Enabling 24/7 deployable force protection technologies	16:15	How to ensure access to denied environments	16:15	Preparing ASW operators for future complex scenarios	16:15	NATO International Submarine Escape and rescue: ISMERLO 2023	16:15	Increasing security in the Indian Ocean through the new naval air platforms
16:45	Multi-disciplinary technologies impacting future naval platforms and sustainability Sponsorship Available	16:45	Situational awareness systems: providing the mission-critical functionality of all systems Sponsorship Available	16:45	Transforming future missions for maritime warfare Hosted by L3 Harris Technology	16:45	Hardening autonomous combat vehicles against adversaries Sponsorship Available	16:45	Controlling the atmosphere to support crew survival Sponsorship Available	16:45	Integration lessons for air sensors from multinational training exercises Sponsorship Available
17:15	Optimised sensor solutions for shipboard applications	17:15	The way forward for sensors and effectors in torpedo defence	17:15	Current factors Steering future capabilities and operations for the Indian Navy	17:15	Creating underwater ranges to ensure maximum training in submarine shadow zones	17:15	Submarine Safety in the view of the Norwegian Defence Materiel Agency	17:15	Delivering the air component of the Queen Elizabeth Class

12:45

Lunch and Networking  
Sponsorship Available

12:45

Lunch and Networking  
Sponsorship Available

12:45

Lunch and Networking  
Sponsorship Available



# Day 3 Agenda – 25th May 2023

## OPTIMISING OUR MARITIME RESPONSE

The past three days have seen a range of presentations from speakers and industry across the globe. There is much to learn and the final session will take some of the key points and combine them with the current issues they face. Future systems will have technology at its heart, but it will be people building, operating and maintaining them and we look forward to hearing how we can optimise their use.

13:45	<b>Interoperable and adaptable: developing Navy leaders for this century</b>
14:15	<b>The Future of Naval Warfare</b> Sponsorship Available
14:45	<b>Considerations for maritime strike forces into the next epoch of procurement</b>
15:15	<b>Close of plenary day afternoon and Chairman’s summary of key themes</b> Presented by Vice Admiral (Ret’d) Duncan Potts CB, Former Commander UK Maritime Forces, Royal Navy
15:20	<b>Close of conference and carriages to Heathrow</b>

## ACHIEVING AND MAINTAINING THE RIGHT FLEET BALANCE

This week has taught us the importance of building and sustaining a force mix that is ready and capable of dealing with an array of threats and tasks. This process takes time, and the event will conclude by addressing some of the most important considerations when it comes to ensuring Navies have the right balance of ship platforms, offset against commonality of parts and procedures to ensure maximum availability.

13:45	<b>Future proofing ship design to ensure rapid adoption of available technology</b>
14:15	<b>How industry ensure information exploitation at a time of increased conflict</b> Sponsorship Available
14:45	<b>Keeping the fleet fighting: key goals for delivering Naval effect</b>
15:15	<b>Close of plenary day afternoon and Chairman’s summary of key themes</b> Vice Admiral (Ret’d) Paul Bennett CB, OBE, Former ACNS (Capability), Royal Navy
15:20	<b>Close of conference and carriages to Heathrow</b>





# 2023 Exhibition



1500+ Attendees



160+ Exhibitors



50+ Nations



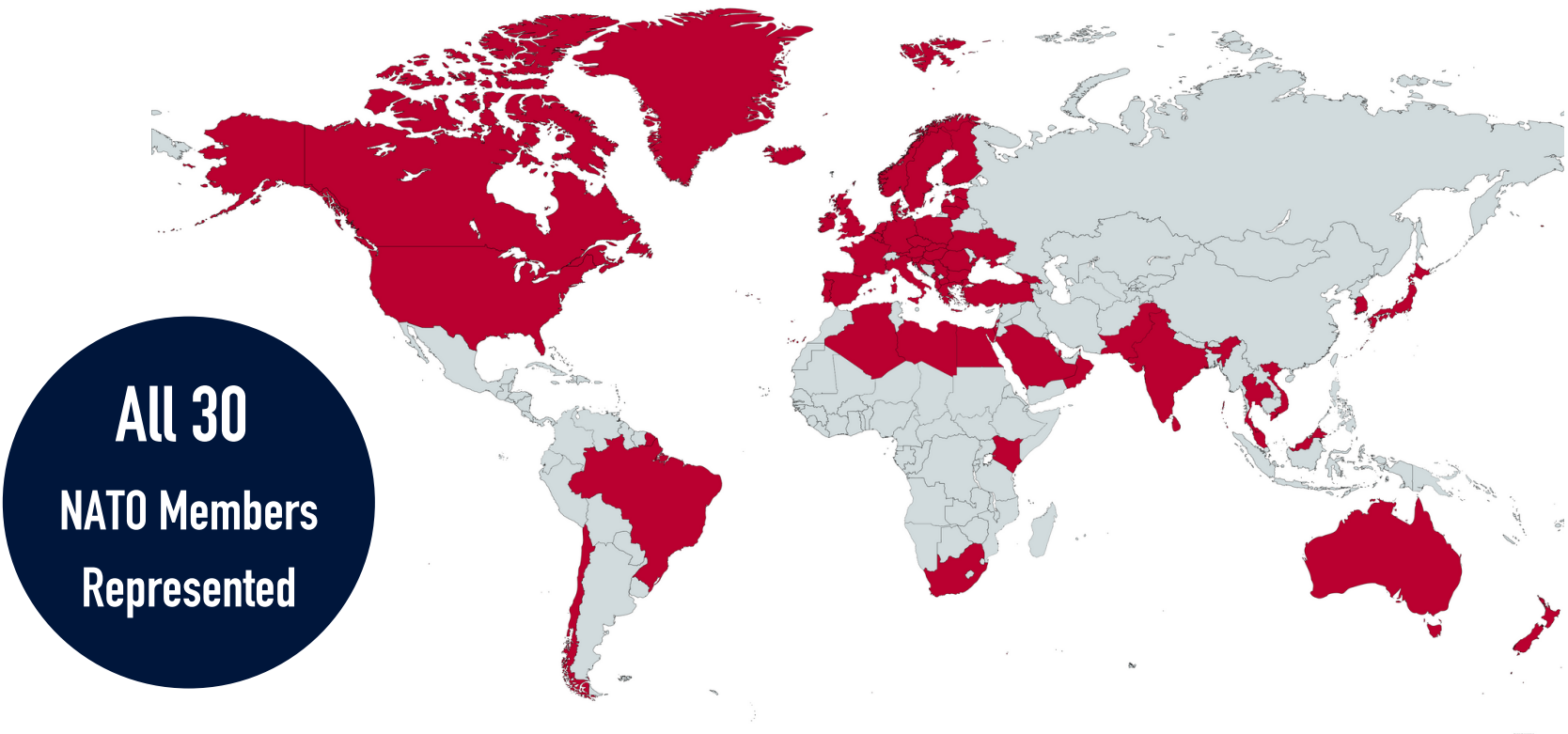
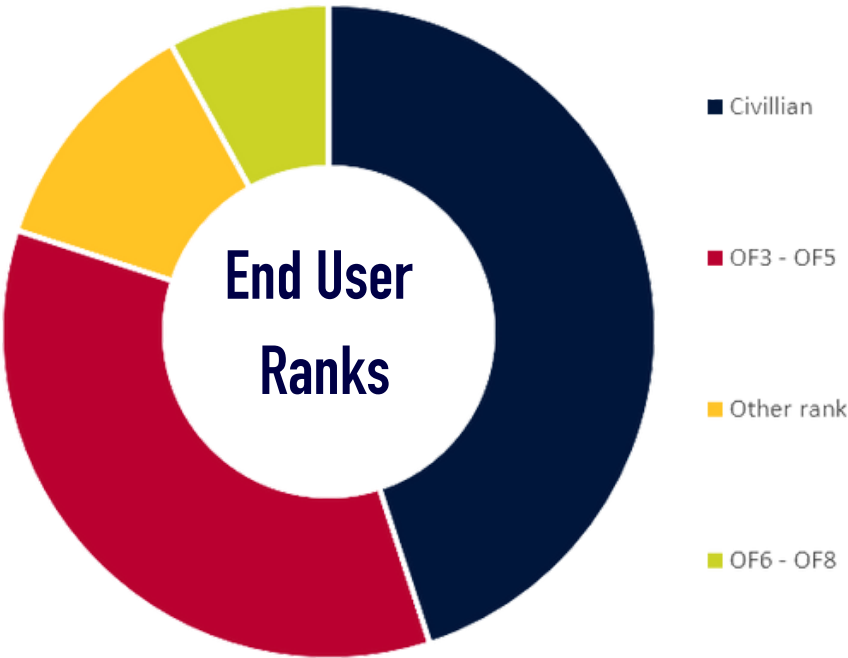
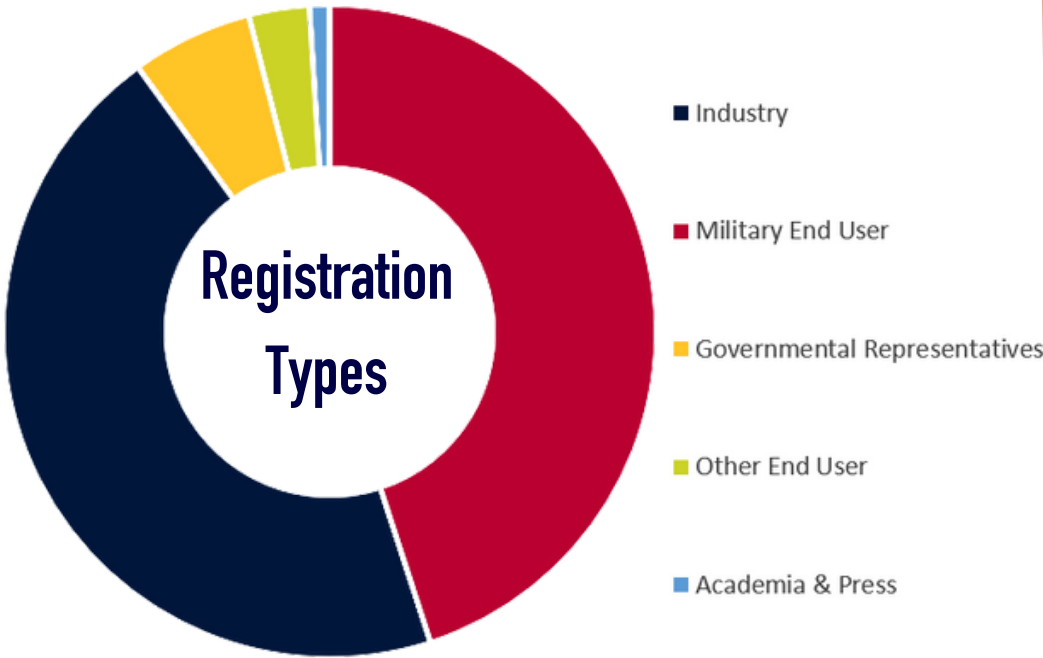
100+ Expert Speakers

## Exhibitors

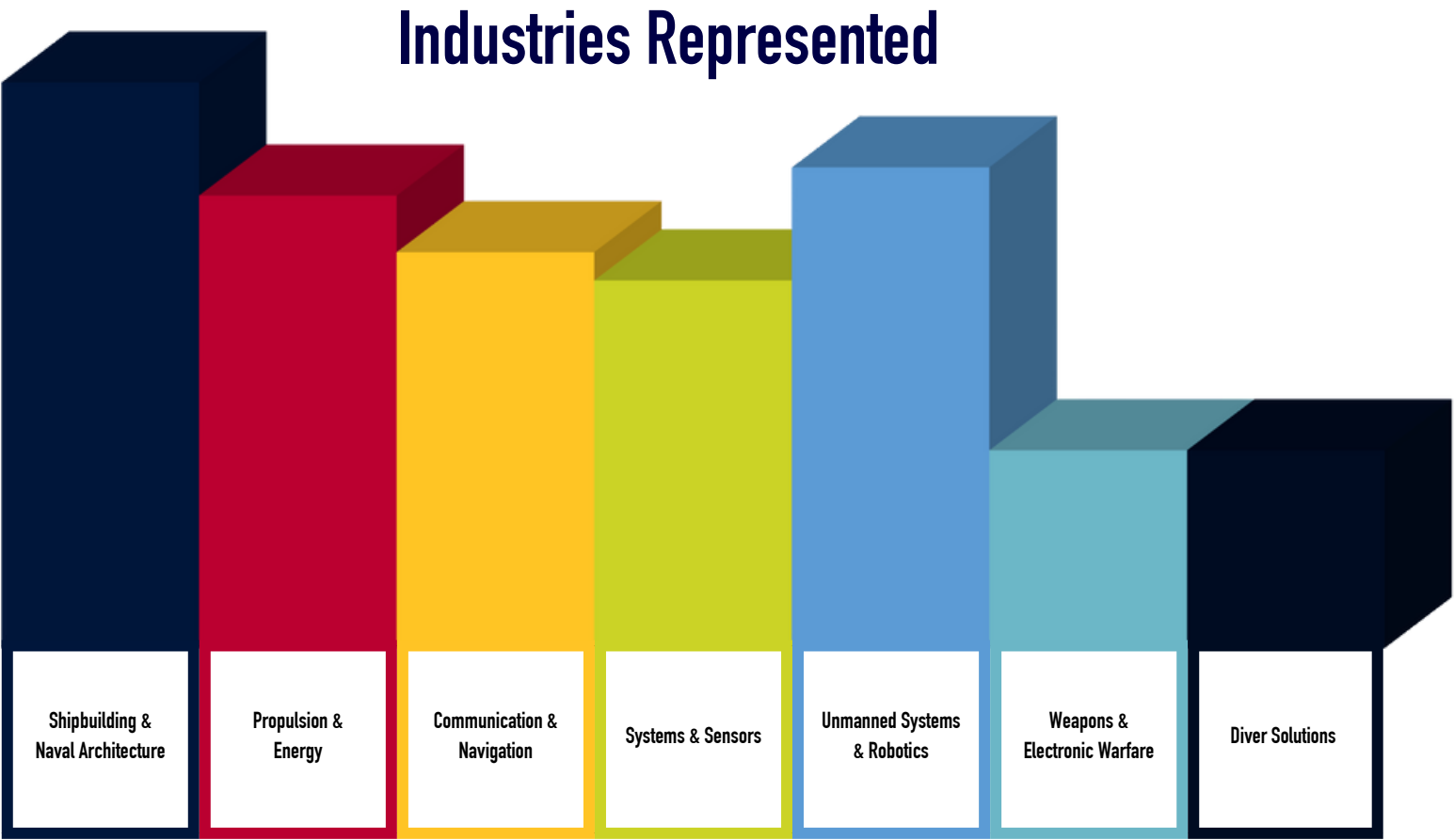




# Audience



- Albania • Algeria • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • Czech Republic • Denmark • Estonia • Finland • France • Georgia • Germany • Greece • Hungary • Italy • Japan • Latvia • Libya • Lithuania • Netherlands • New Zealand • North Macedonia • Norway • Oman • Pakistan • Poland • Portugal • Qatar • Romania • Saudi Arabia • Serbia • Slovakia • Slovenia • South Africa • South Korea • Spain • Sweden • Turkey • UK • Ukraine • USA • Vietnam •



# Exhibition and Sponsorship Opportunities

**LEAD NAVAL PARTNER – EXCLUSIVE TO ONE PARTNER.**  
1 x 30 minute industry address during the plenary conference day 1  
1 x 30 minute industry presentation slot during conference stream  
Four (4) complimentary all access conference delegate tickets  
Highest level branding on all onsite signage, the event website, conference guide and all marketing collateral  
Key account call with guesting department to identify and target key prospects to invite  
1-2-1 networking facilitated onsite  
**Price: £29,950**

**LEAD TECHNOLOGY PARTNER – EXCLUSIVE TO ONE PARTNER.**  
1 x 30 minute industry address during the plenary conference day 1  
Four (4) complimentary all access conference delegate tickets  
Associated branding on all onsite signage, the event website, conference guide and all marketing collateral  
Key account call with guesting department to identify and target key prospects to invite  
1-2-1 networking facilitated onsite  
**Price: £19,950**

**NAVAL PARTNER**  
Limited to 2 Partners  
1 x 30 minute industry address during the closing conference day 3 (either Surface or Subsurface)  
Four (4) complimentary all access conference delegate tickets  
Associated branding on all onsite signage, the event website, conference guide and all marketing collateral  
Key account call with guesting department to identify and target key prospects to invite  
1-2-1 networking facilitated onsite  
**Price: £19,950**

**LEAD STREAM SPONSOR**  
Exclusive to one partner per stream.  
Provide the opening industry speaking session in a dedicated conference stream  
1 x 30 minute industry presentation slot during conference stream  
High-level branding above all other sponsors except Lead Naval, Lead Technology and Naval Partners.  
Associated branding on all onsite signage, the event website, conference guide and all marketing collateral  
Additional 2 delegate passes  
**Price: £14,950**  
Underwater Defence & Security Stream – 1 available  
Future Surface Fleet Stream – 1 available  
Surface Fleet Technology Stream – 3 available  
Submarine Technology Stream – 1 available

**STREAM SPONSOR**  
Limited to 3 partners per stream  
Your company will be provided with a speaking session in a dedicated conference stream.  
1 x 30 minute industry presentation slot during conference stream  
Associated branding on all onsite signage, the event website, conference guide and all marketing collateral  
Additional delegate pass  
**Price: £9,950**  
Underwater Defence & Security Stream – 3 available  
Future Surface Fleet Stream – 3 available  
Surface Fleet Technology Stream – 4 available  
Submarine Technology Stream – 1 available

**PRIVATE BRIEFING SPONSOR**  
Host your own private 90-minute session at CNE 2023.  
Flexible format, you have the option to run a roundtable, briefing, workshop, product demonstration, or social event. capacity for up to 20 guests.  
Purpose built room with built-in AV, close to the main exhibition.  
Hot and cold refreshments are provided during your session.  
Breakfast snacks will be included for early morning briefings.  
Listing within the official event agenda.  
Listing as Private Briefing Sponsor on the event website, event app, onsite signage and on selected marketing messages.  
Inclusion on dedicated feature page on the CNE 2023 website  
Direct assistance from the Defence Leaders Audience Team to ensure your session is attended by your desired targets.  
3 Delegate passes.  
**Price: £14,950**

**PRIVATE MEETING ROOM**  
A fully-enclosed facility to conduct private meetings and demonstrations.  
Package includes:  
Full height shell scheme walls with lockable door  
Single power supply  
Seating and table (dependant upon required layout)  
You have the option to add branding to the interior to achieve an immersive brand experience.\*  
Located in a quiet area of the exhibition to ensure privacy.  
**3m x 3m – 4 person capacity**  
**Exclusive hire for the full 3-day event: £8,000**  
**3m x 4m – 6 person capacity**  
**Exclusive hire for the full 3-day event: £12,000**  
\* Requires additional investment and available to exclusive hire only.

**SHELL SCHEME STAND**  
A turn-key stand option which can be customized with your own branding.  
Package includes:  
Available as either 6m2, 9m2, 12m2 or 18m2.  
Full height shell scheme walls  
Carpet, small table and two chairs  
Single 500W power supply  
Facia board displaying the company name  
Access to the event app and digital networking tools  
Listing as exhibitor in the event guide, event app and event website  
**SPACE-ONLY STAND**  
A dedicated position upon which you can construct your own bespoke designed exhibition stand.  
Package includes:  
Access to the event app and digital networking tools  
Listing as FEATURED exhibitor in the event guide, event app and event website

Size	Dimensions	Passes Included	Price
36m <sup>2</sup>	6m x 6m	7 Passes	£44,950
18m <sup>2</sup>	6m x 3m	5 Passes	£24,950
12m <sup>2</sup>	6m x 2m	4 Passes	£18,950
9m <sup>2</sup>	3m x 3m	3 Passes	£14,950
6m <sup>2</sup>	3m x 2m	2 Passes	£9,950
4m <sup>2</sup>	2m x 2m	2 Passes	£7,950



**MORNING RUN**

Each day of the event we host a small number of participants for a casual run around the Farnborough location.

Each participant receives a branded running bib. Your logo will also appear alongside other event feature sponsors on the website, event app and selected onsite event signage.  
Includes 2 delegate passes.

**Price: £7,950**

**LUNCH SPONSOR**

The CNE is a fully catered event, with lunch provided for all participants.

Your logo will appear prominently in one of our 3 themed networking areas on a specific day. Your logo will also appear alongside other event feature sponsors on the website, event app and selected onsite event signage.  
Includes 2 delegate passes

**Price: £7,950**

**BADGE SPONSOR**

Event attendees must always wear and have their badge visible.

Your logo will be exclusively featured on the badge design, in full color alongside our own event branding. Your logo will also appear alongside other event feature sponsors on the website, event app and selected onsite event signage.  
Includes 2 delegate passes

**Price: £7,950**

**STATIONARY SPONSOR**

With so much exclusive conference content on offer, note taking is essential. Each participant receives a branded notepad and pen, distributed from several positions around the venue.

Your logo will also appear alongside other event feature sponsors on the website, event app and selected onsite event signage.  
Includes 2 delegate passes

**Price: £9,950**

**LANYARD SPONSOR**

Our most visible branding opportunity. Every event attendee receives a branded lanyard at registration.

Your logo will be exclusively featured on the lanyard design, alongside our own event branding. Your logo will also appear alongside other event feature sponsors on the website, event app and selected onsite event signage.  
Includes 2 delegate passes

**Price: £9,950**

**REGISTRATION SPONSOR**

Begin engaging with our visitors from the moment they enter the venue. Your logo will be featured on the registration desk and surrounding area alongside our own event branding.

Your logo will also appear alongside other event feature sponsors on the website, event app and selected onsite event signage.  
Includes 2 delegate passes

**Price: £7,950**

**HANGING WALL BANNER**

Place your brand front-and-centre in the exhibition with one of our six large hanging banner positions.

Located on the rear wall, these placements are in direct eyeline as visitors enter the event.

**Price: £4,950**

**EVENT GUIDE**

Our event guide is more than just an agenda, it is a vital companion for every attendee.

You will receive front cover logo placement, the rear cover advert and a full page editorial.  
Includes 2 delegate passes.

**Price: £9,950**

**DELEGATE BAG**

We will provide each of our end-user VIP guests and speakers with a high-quality event bag.

These will be co-branded with your logo and our event branding. Each can be pre-filled with your choice of material.

**Price: £14,950**

**SPEAKER GIFT SPONSOR**

Each of our invited speakers is presented with a 'thank you' gift for taking part. Your company logo will appear alongside our own on a special batch of uniquely labelled Navy Leaders rum, presented to each speaker at the close of the final day.

**Price: £7,950**

**THEATRE SPONSOR**

Take the lead branding position for one of our six conference Theatres.

Future Surface Fleet x 2 | Underwater Defence & Security x 2 | Submarine Technology | Surface Fleet Technology

Your logo will be placed on the exterior hanging banner, event floor plan and will include literature distribution via seat drop.

**Price: £9,950**

**LITERATURE DISTRIBUTION**

Place your company and product literature in front of the most relevant audience.

We will distribute your literature via seat drop before a session of your choice and in the catering areas.

**Price: £3,950**

## DRINKS RECEPTION SPONSOR

As the conference closes on day one and two, we welcome all event participants back into the exhibition to discuss the days sessions and hear from VIP speakers over complimentary drinks.

With three distinct zones (Surface, Sub-Surface and Tech) we are able to offer sponsorship of an evening's drinks focused upon a specific audience to an industry partner.

Package includes:

Recognition alongside other event sponsors as an Official Drinks Reception Sponsor.

Your logo will appear prominently in one of our 3 themed networking areas on a specific day.

Your logo will also appear alongside other event feature sponsors on the website, event app and selected onsite event signage.

Includes 2 delegate passes

**Price per zone: £9,950 Price for all 3 zones: £19,900**

## EVENT APP SPONSOR

Defence Leaders have partnered with Webex by Cisco to deliver an industry-leading and secure interactive event app and networking platform.

The Defence Leaders app delivers a full suite of capabilities to enable our audience to effectively navigate the exhibition, create their own personal agenda, network with other attendees and take part in polls and Q&A.

Our fully customised app allows the opportunity for an exclusive sponsor to add branding and leverage the messaging and insight capabilities of the platform, which remains active for 12 months.

Package includes:

Recognition alongside other event sponsors as Official App Sponsor.

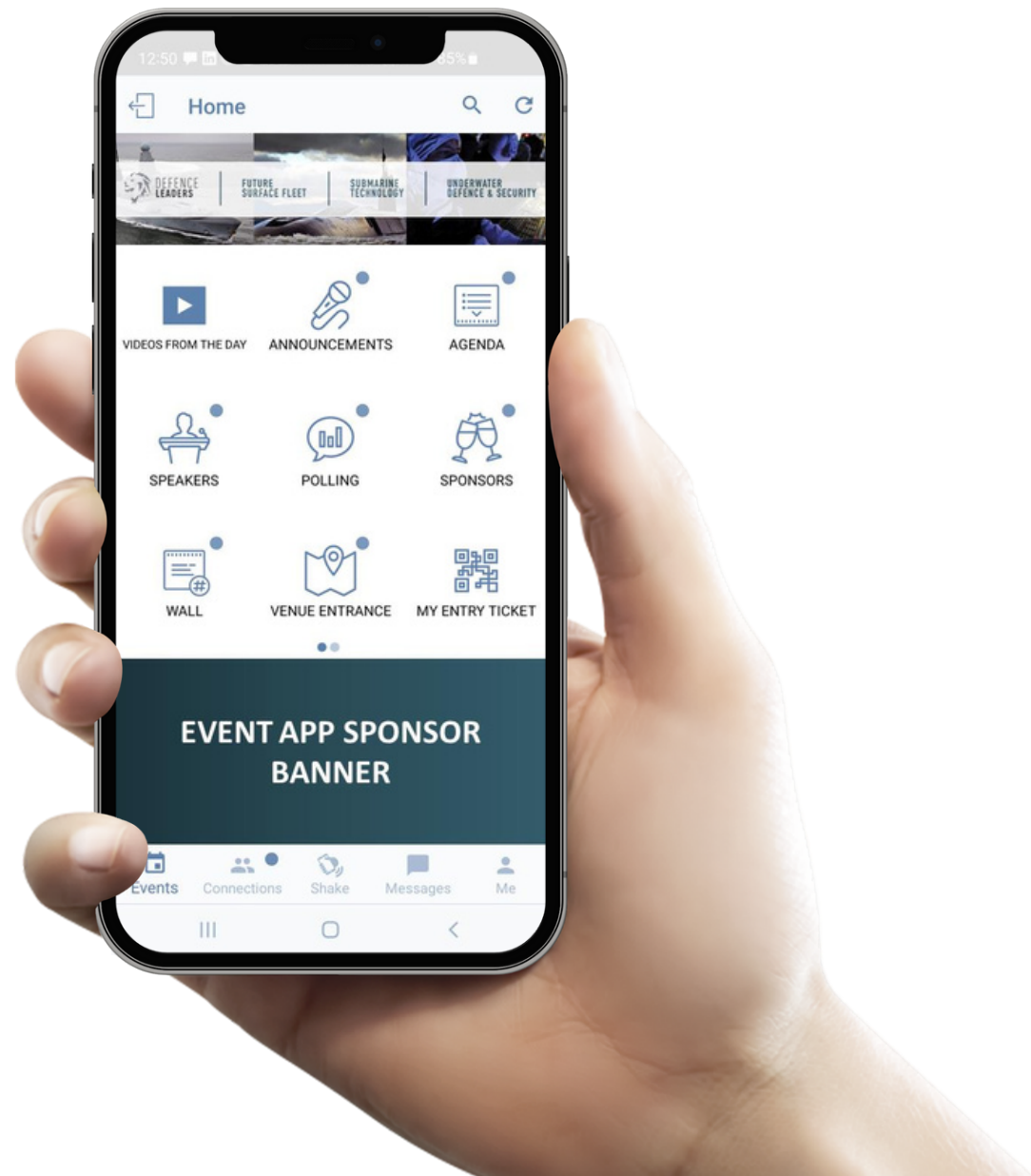
Recognition and logo inclusion on app launch email campaign.

Custom designed banner placement on app homescreen.

Eleven message credits to communicate with our entire event audience pre-event, mid-show and post-event.

Inclusion of a dedicated question in our polling function to help you gain insights from the audience.

**Price: £14,950**



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