

## Defence Innovation Hub Award – Offboard Detection, Classification & Localisation

### *Unmanned Surface Vehicles for ASW Barrier Operations*



BlueZone Group is pleased to announce the award of a Defence Innovation Hub contract for a Concept Exploration Phase study for Offboard Detection, Classification and Localisation (Offboard DCL) using unmanned systems.

BlueZone Group and partners propose to develop a highly automated system to contribute to Navy surface combatant Offboard DCL capability and extend the effect that modern combatants can make to Anti-Submarine Warfare (ASW). The concept is based around integrating existing sonar and information processing sub-systems into an Unmanned Surface Vehicle (USV) which can be deployed to extend the sensor surveillance coverage of the parent ship. The system will comprise USV equipped with sonar to automatically detect, classify and localise submarine contacts and automated track generation and management capability which will pass tactically useful track data to the parent ship and then throughout Navy task groups.



The BlueZone innovation will demonstrate that unmanned surface vehicles can enhance undersea and anti-submarine warfare capability.

**#AheadOfTheTide #innovation #defence #unmanned #ASW**

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## Defence Industry Service Commendation – Paul Montgomery

### *Recognition of outstanding career of service to the Australian Defence Force and defence industry*

BlueZone is pleased to announce that Paul “Monty” Montgomery has been selected as one of seven new recipients of the Defence Industry Service Commendation.

The Defence Industry Service Commendation is an initiative launched by the Commonwealth Government in 2018, which recognises outstanding achievements and dedication in the application of skills, judgement and innovation in the defence industry sector.

Monty has an outstanding career of service to the Australian Defence Force and defence industry. Beginning as a draftsman at Garden Island Dockyard in the 1980s, Paul learnt his trade and contributed to the support and maintenance of the RAN fleet including *Adams Class* destroyers and *Perry Class* frigates. Paul’s service continues in defence industry where he is a key member of the BlueZone team managing the workshop that supports the ‘Double Eagle’ Mine Disposal System, a key capability for Navy Mine Countermeasures.



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## Maritime Unmanned Systems Take Centre Stage at NATO

*ASW, MCM and More will be enabled by New Technology*

Recent developments in NATO point to a renewed focus on maritime warfare after decades of land warfare driven concerns. Looking toward maritime operations in 2040, unmanned systems and autonomy are recognised as a key area of challenge and opportunity. Maritime Unmanned Systems (MUS) are a clearly game-changing technology. It is self-evident that they provide a force multiplier, cost efficiency in deploying capability and minimisation of risk to personnel. A NATO study due for completion in May 2019 will be developed by 52 experts from 34 companies and 11 different nations to address the question in detail



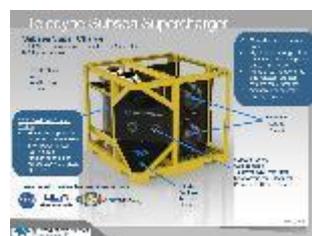
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## Subsea Supercharger Brings Electric Power to the Seafloor

*An energy revolution coming to the seabed*

The Subsea Supercharger developed by Teledyne Energy Systems enables persistent AUV/ROV operations without needing a crew nearby to retrieve or redeploy the underwater vehicles, or a tether to supply power from above the water. In addition to the AUV/ROV operations, the Subsea Power System can be used to power subsea instruments that require a longer duration and power than batteries alone can provide.

The system is fully recoverable and rechargeable.



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## BlueZone supports TMT to deliver ROV for submarine rescue

*Hydrostatic pressure testing an essential step in assurance for ocean systems*

BlueZone is pleased to provide support to Perth-based Total Marine Technology in their ROV manufacturing and operations which will in time include the delivery of an ROV for Australia's new submarine rescue capability.



BlueZone provides hydrostatic pressure testing for TMT ROV development. Hydrostatic pressure testing is an essential step in assurance of systems designed for deployment in the ocean depths.

Located in Perth, BlueZone owns and operates two hydrostatic pressure testing chambers. All chambers have electrical pressure rated penetrators for connection to equipment under test. BlueZone maintains all chambers with in-date NATA certified gauges.

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## New Products & Services



## DeepWater Buoyancy

*New Products for Offshore Oil & Gas*

DeepWater Buoyancy has announced a range of new products to service the Offshore Oil & gas market:

- Jumper Buoyancy modules are fabricated with either a rotationally-moulded polyethylene shell or with a GRP skin. In all cases, high-performance DeepTec® syntactic foam provides the buoyancy. An integral elastomeric clamp acts as the interface to the pipe and resists axial and torsional loads.
- Umbilical Buoyancy provides distributed buoyancy for platform-to-seafloor umbilical applications. Available with either an integral or secondary clamp, these modules can be custom to fit to any umbilical of any size or configuration. Umbilical Ballast modules are also available to assist in the creation of the proper umbilical arrangement.
- Pipeline Buckle Mitigation Buoyancy modules are clamped onto the pipeline to control the formation of the lateral buckles and to alleviate stress. These modules decrease the lateral friction from the buckle by both reducing weight of the buckling sections and by providing a protective shell.



[Read More – Flotation Technologies](#)

[Read More – Deepwater Buoyancy](#)

## DeepSea Power & Light Product Discontinuation

DeepSea Power & Light have announced discontinuation of the following products:

- NTSC Video Format in the Super Wide-i SeaCam® and Wide-i SeaCam®. NTSC video format for the Super Wide-I SeaCam 4060 and Wide-I SeaCam 4060 is no longer available due to the module being obsoleted.
- Low-Light SeaCam. Low-Light SeaCam has been discontinued due to the module being obsoleted without an alternative option available.

Please contact BlueZone for advice on continued support for in-service systems and availability of alternative products.

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