



## Press Release

**For Immediate Release: April 27, 2023**

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### **ABS and Seatrium Advance Pioneering Digital Transformation with Smart Yard Initiatives**

*Industry's First Smart Wearable Device Monitoring System from Seatrium Receives PDA as ABS Launches Industry-Leading Requirements for Smart Shipyards*

(SINGAPORE) ABS and Seatrium Limited (Seatrium) have joined forces to empower and transform industries through smart technologies to further enhance the seamless digital experience and to raise safety, productivity, and efficiency to greater heights.

At Singapore Maritime Week, ABS has launched detailed requirements to guide the industry in the application of smart technologies at shipyards, and recognizes Seatrium as the first shipyard group to deploy smart technologies in its operations, in line with the *ABS Guide for Smart Technologies for Shipyards*.

Seatrium's Mobile Wearable Personal Device (MYPD) Monitoring System, which leverages internet of things (IOT) and platform technologies has also received Product Design Assessment (PDA) approval from ABS.

The MYPD Monitoring System by Seatrium is integrated into smart devices that are deployed shipyard wide. These devices are worn on the wrists and promise to enhance the overall health and safety of shipyard workers with features like fall detection; geo-location; emergency connectivity; and real-time safety notifications.

The devices can be monitored via a command center to help improve response time to emergencies and deploy safety messages more effectively.

"The transition towards digitalization is moving fast in shipbuilding, and ABS is leading the industry by partnering pioneers like Seatrium. Smart technology can

improve design, fabrication and operational processes as well as improve the health, safety, and quality processes in shipyards. Our guide is a key step in supporting others in their digitalization journey,” said Christopher Wiernicki, ABS Chairman, President and CEO.

“The smart device is another example of how Seatrium is harnessing digital technologies as part of our broader strategy to transform our workforce, products and services in support of our order book, while achieving safety and operational excellence to further augment our Smart Yard vision. We are glad to collaborate with ABS to advance smart technologies for the industries and create value which will benefit all stakeholders,” said Chris Ong, Seatrium Chief Executive Officer.

The recognition from ABS for the wearable device monitoring system is among the many ongoing collaborative efforts between ABS and Seatrium to pioneer digital transformation for the offshore, marine and energy industries through a multi-year joint development project (JDP).

Also under the JDP, ABS and Seatrium will collaborate on further smart yard initiatives covering a wide range of innovative digital solutions, such as the remote inspection using smart glasses with 5G technology to enhance the surveying process during and after the construction of the vessel. Since 2022, Seatrium has launched the 5G infrastructure across its yard operations to future-proof yard-wide connectivity, which will enable the trial and deployment of multiple-use cases, including an augmented reality (AR) and virtual reality (VR) remote inspection platform, and smart video analytics.

Prior to this, ABS and Seatrium have collaborated in a series of significant smart functions development projects. Among the ongoing joint efforts to further advance the use of smart functions in the energy sector includes developing a suite of intelligent energy management functionality onboard Seatrium’s Floating Living Lab to enable a self-generating smart microgrid within the yard. The Floating Living Lab is a pioneering initiative that has received a first-of-its-kind approval in principle (AIP) award from ABS. The system includes asset performance and distributed energy resource operation equipment for predictive health monitoring that can be remotely monitored from Seatrium’s command center over a 5G network to drive operational excellence, maximize asset performances and minimize asset lifecycle cost.

Smart functions for the Floating Living Lab were provided in accordance with the ABS *Guide for Smart Functions for Marine Vessels and Offshore Units* that can be downloaded [here](#). The ABS *Guide for Smart Technologies for Shipyards* that introduces the process to recognize shipyards utilizing and incorporating smart technologies into their operational processes can be downloaded [here](#).

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### **About ABS**

ABS, a leading global provider of classification and technical advisory services to the marine and offshore industries, is committed to setting standards for safety and excellence in design and construction. Focused on safe and practical application of advanced technologies and digital solutions, ABS works with industry and clients to develop accurate and cost-effective compliance, optimized performance and operational efficiency for marine and offshore assets.

### **About Seatrium Limited**

Seatrium Limited provides innovative engineering solutions to the global offshore, marine and energy industries. Headquartered in Singapore, the Group has 60 years of track record in the design and construction of rigs, floaters, offshore platforms and specialized vessels, as well as in the repair, upgrading and conversion of different ship types.

The Group's businesses are supported by five commercial units – Oil & Gas Newbuilds and Conversions; Renewables and New Energies; Specialized Shipbuilding, Repairs & Upgrades and Technology and New Product Development – which provide a diverse suite of products and services, with a growing focus on sustainable solutions to advance the global energy transition and maritime decarbonization.

As a premier global player offering offshore renewables, new energy, and cleaner offshore & marine solutions, Seatrium is committed to delivering high standards of safety, quality, and performance to its customers who include major energy companies, owners of floating production units, shipping companies and cruise and ferry operators.

Seatrium operates shipyards and other facilities in Singapore, Brazil, China, Indonesia, Japan, the Philippines, Norway, the United Kingdom and the United States.

Discover more at [www.seatrium.com](http://www.seatrium.com).