PRESS RELEASE

Robosys Automation launches new VOYAGER AI Simulator at Oceanology International

Caption: ROBOSYS' VOYAGER AI SIMULATOR enables testing and refinement in advance of seaborne operations

A leading advanced autonomy and vessel control innovator, Robosys Automation, has unveiled its new VOYAGER AI Simulator at Oceanology International 2026.

The VOYAGER AI Simulator is a powerful maritime simulation environment designed to work with Robosys' VOYAGER AI Autonomous Navigation System.

The VOYAGER AI Simulator enables advanced testing, validation, mission planning and rehearsal for autonomous and remotely operated vessels by creating a Digital or Virtual Twin of a vessel or USV (Unmanned Surface Vessel).

Key Capabilities

The simulator enables operators and manufacturers to create digital twins of vessels or USVs by simulating engine performance, onboard sensors and navigational data. This allows teams to replicate real-world vessel behaviour within a controlled virtual or immersive environment.

The platform also supports the modelling of multiple vessel tracks, enabling users to build complex maritime traffic scenarios and conduct quantitative testing and analysis. These capabilities allow organisations to evaluate system performance and safety under realistic operational conditions.

The system supports the testing of COLREGs-compliant collision avoidance behaviour in simulated maritime environments, while enabling both shore-based simulation and immersive operational testing. In addition, the platform can ingest live maritime traffic data and generate augmented traffic scenarios for enhanced operational testing and training .

The simulator also enables complex seaborne mission rehearsal planning, allowing operators to design, test and refine operational scenarios before vessels are deployed in real-world conditions.

Core Features

The VOYAGER Simulator incorporates an integrated ENC display, providing accurate chart-based navigation environments to support realistic maritime simulation. Its drag-and-drop scenario creation tools allow users to quickly build and modify simulation scenarios, enabling rapid configuration and testing.

The platform also supports Remote Piloting (RP) testing and can integrate with third-party hardware controllers to replicate realistic remote vessel operations. In addition, the system supports testing at Degree 4 autonomy, enabling comprehensive validation of advanced autonomous navigation capabilities.

Propelling Maritime Innovation

The VOYAGER Simulator provides developers, operators and regulators with a powerful maritime synthetic environment to validate autonomous navigation behaviour, improve safety and accelerate the deployment of autonomous maritime systems.

By enabling high-fidelity simulation of vessels and complex traffic environments, the platform allows teams to test and refine operational scenarios before vessels ever enter the water, reducing risk while improving operational performance and reliability.

Find out more at www.robosysautomation.com or visit Robosys at stand A170 at Oceanology International.

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NOTES TO EDITORS

ABOUT ROBOSYS AUTOMATION

Since 2012, **Robosys Automation** has been regarded as the world leader in maritime autonomy and smart shipping applications, delivering pioneering and intelligent navigation solutions to crewed, lean-crewed and autonomous vessels, USVs and ships, from 3m to 320m.

Headquartered in the UK within the maritime sector's Silicon Solent region, Robosys also has offices in USA, Canada and India.

Robosys has two decades of experience in developing and supporting AI maritime autonomy and smart shipping solutions with its platform, propulsion, and sensor-agnostic software; for both operational purposes, and for training simulation in synthetic environments, across surface and subsea operations.

Robosys' solutions are proven and boast full IMO Degree 4 Maritime Autonomy capability. Robosys' solutions include its ground-breaking **VOYAGER AI** software which transforms any motorised vessel into a fully autonomous Unmanned Surface Vessel (USV); which features independent navigation, collision and obstacle avoidance, anti-grounding and dynamic route optimisation.

In addition, Robosys offers numerous options to complement VOYAGER AI, including COLREGS-compliant Collision Avoidance Decision Aid (CADA) applications, to enhance the safety in the support of crewed and lean crewed watchkeepers. Other options include Voyager Platform Control providing Remote Steering, Engine Control and Propulsion Control, together with Voyager Platform Management, providing Alarm Monitoring, together with Switch & Relay Controlling.

Robosys Automation has also won numerous awards and accolades, being crowned Winner of the **MUKS 2023 International Partner of the Year Award** and the **MUKS Future Skills Award in 2024** and declared the Finalist at the **Maritime UK Technology Gamechanger Award** in 2024. Robosys was also **Maritime UK 2025 International Partner Award** Finalist.

Robosys' national and international partners include the **Australian Maritime College - AMC Search**, the **Maritime Research Institute of Netherlands** (**MARIN**) and the **National Oceanography Centre (NOC) Marine Robotics Innovation Hub.**

Find out more about Robosys Automation at **www.robosysautomation.com**.

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