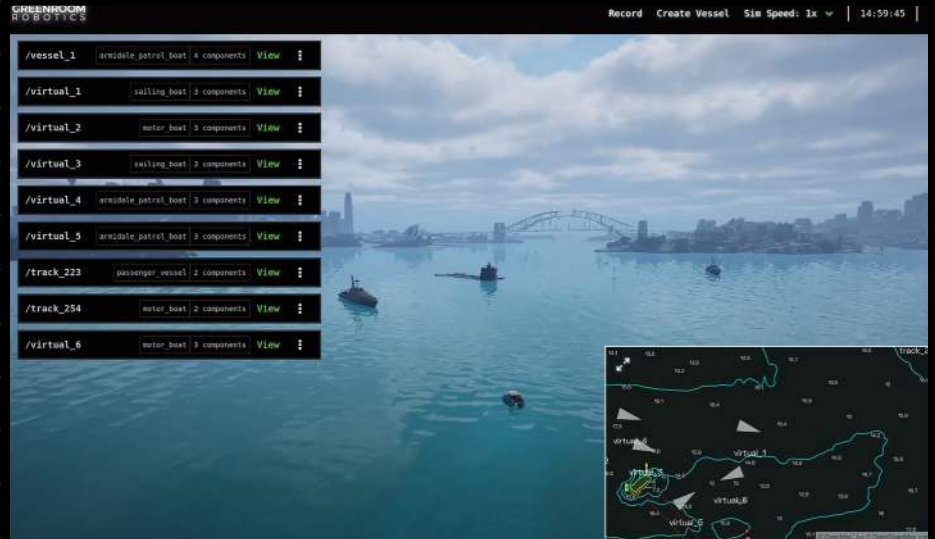


Total visibility of all assets and objects of interest in any maritime operation environment.

MIS-SIM is a dynamic mission simulation tool that bridges the gap between real-world operations and virtual testing environments. This versatile simulator enables teams to test maritime systems, create digital twins, and develop a 3D common operating picture using both simulated and historical data, with simple integration into any UMAA-compliant or DDS system.



REMOTE MONITORING

- Monitor and share information between real-world deployed assets with a detailed 2D and 3D common operating picture, offering real-time insights into the status and activity of platforms within the maritime environment.
- Share and consolidate information on objects detected through RADAR, optical sensors, AIS, ARPA, and other systems, ensuring a comprehensive and accurate understanding of the operational area for informed and timely decision-making.



DIGITAL TWINS

- Create a highly accurate digital replica of a real-world physical vessel, including design elements like weight, buoyancy, and max speed, as well as operational data to simulate performance under various weather, sea state, and environmental conditions.
- Parse data from any real-world sensor feed to identify issues before they arise, ensuring proactive management and enhanced operational readiness.



MISSION REHEARSAL

- Run complex multi-asset simulated missions to test systems and train operators for crewed and uncrewed operations.
- Rehearse operations and easily integrate new information into operation briefs and plans to mitigate associated risks.
- Run high-frequency scenario rehearsals to gather data, ensure statistical significance, and prove mission success, supporting informed decision-making and risk mitigation.



Situational Clarity

Monitor the progress of deployed crews and gain a comprehensive understanding of their operating environment. By consolidating the best possible information from all sources, MIS-SIM users can quickly identify threats, objects of interest, or targets, enabling rapid response to emerging challenges.



Streamlined Testing

Minimise vessel time spent testing performance and implementing new autonomy versions by using a digital twin in a synthetic environment. Conduct tests and updates without the physical vessel, significantly reducing operational downtime and resourcing costs.



Asset Insight

Know the exact location, activity, and performance of every asset in real-time. Relay the most accurate, relevant, and up-to-date information to deployed teams for optimal decision-making.

