



Unmanned autonomous vehicles & vessels

Leidos, a leader in maritime autonomy and sensor integration, is leveraging our decades of experience in naval architecture, hydrodynamics, survivability, and modularity to design and develop the future generation of unmanned autonomous vessels. These vessels are being designed to support numerous alternate naval missions in addition to the as-designed anti-submarine warfare mission.

Leidos maritime autonomy is robust, COLREGs compliant, and built on a modular open architecture that readily supports integration of new sensors, mission behaviors, and platform control interfaces. Our current design implements a diverse sensor suite, including sonar, electro-optical, and radar, to enable unmanned vessels to detect, track, classify, and evaluate targets. These sensors also pinpoint the location of surface ships, allowing vessels to navigate autonomously to avoid surface craft while performing their missions without human intervention.

Modularity, which simplifies construction, is another critical design feature that Leidos is implementing as we address the U.S. Department of Defense's (DoD's) need for unmanned maritime vehicles and vessels. Modularity reduces maintenance time and also facilitates rapid modification for alternate missions, thus increasing the craft's versatility. Threats are many, oceans are vast, and resources scarce. Leidos' state-of-the-art unmanned autonomous vessels are expected to provide an affordable, flexible warfighting solution for the future.

FOR MORE INFORMATION:

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