

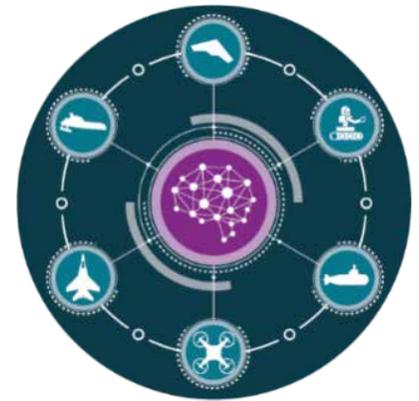
Collaborative Autonomy

OVERVIEW

The U.S. military is increasingly turning to autonomous systems to bring advanced capabilities, accelerate decision making, and act as a force multiplier. Collaborative Autonomy enables the U.S. military to fly teamed, unmanned aircraft that can operate in contested environments. Embracing modularity, interoperability, adaptability, and scalability, offers new technologies with which to counter near-peer adversaries, at a fraction of the cost of traditional systems.

OUR APPROACH

The Leidos approach brings together experts across multiple areas of sensing, open architectures, platform integration, and Collaborative Autonomy to develop the new resilient, secure, and trusted autonomous capabilities needed to tackle the U.S. Military's biggest challenges. Leveraging these capabilities, Leidos is working to create a vehicle-agnostic system solution that is portable to multiple platforms and adaptable to different missions. Our modular approach allows third parties to rapidly contribute new innovative technologies by meeting the interface standards that the architecture specifies. This is a shift from conventional development efforts, which tend to be standalone efforts that are more difficult to integrate.



PROVEN SUCCESS

We are combining advanced sensors with innovations in Collaborative Autonomy architecture and reasoning Artificial Intelligence (AI) to ultimately make decisions that affect the outcome of the mission. We serve as the system design agent for the Skyborg program, providing the Air Force with an agile, autonomous warfighting architecture demonstrated on both the MQ-20 and UTAP-22 air vehicles. From DARPA Gremlins, launching and recovering reusable UAS while out of range of adversary defenses to DARPA Air Combat Evolution (ACE), bringing AI into aerial battle management, we are developing systems that can autonomously collaborate—and adapt to changing threat and target tactics—ensuring mission success, especially in anti-access/area denied environments.

WHY PARTNER WITH LEIDOS

At Leidos, we focus on delivering solutions that cater to today's most demanding problems. Powered by cutting-edge technology, our capabilities advance yesterday's challenges into tomorrow's solutions.

NEXT STEP

To learn how your organization can be a part of the advancement and to speak with one of our Collaborative Autonomy experts contact us today.

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