+ Domains

Scientific Systems develops software solutions to create AI-enabled collaborative autonomy capabilities for unmanned platforms in all domains.

AIR

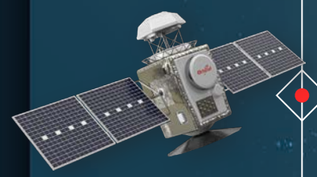
Enable unmanned aircraft to operate intelligently alone or in teams.

LAND

Improve real-time knowledge with the aid of autonomous teammates.

MARITIME

Enable maritime vehicles to accomplish mission objectives above and beneath the sea.



SPACE

Create new possibilities for utilizing autonomy in space.

+ Contact Us

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Suite 3000 Woburn, MA 01801

http://scientificsystems.com

SCIENTIFIC SYSTEMS

AUTONOMY FOR **ANY MISSION**

SCIENTIFICSYSTEMS.COM

WHO WE ARE

Architects of Autonomy

Autonomy and artificial intelligence are rightfully touted for their enabling potential for national defense and scientific exploration. We develop and holistically connect these and other relevant technologies together to provide disruptive, offsetting capabilities for unmanned systems, enabling them to make intelligent decisions and collaborate across the domains of space, air, land, and sea.

We've spent the past 40 years pioneering innovations, including advancements in mission autonomy, for all branches of the U.S. military, DARPA, NASA and more.

WHAT WE DO

Advanced Technologies For AI-Enabled Autonomy

At Scientific Systems, expert engineers and scientists work together to develop cutting-edge solutions for the most complex challenges facing warfighters and scientific explorers in and through all domains from undersea to outer space. Discover how we're advancing the possibilities of AI-enabled autonomy to achieve Commander's Intent and ensure mission success.

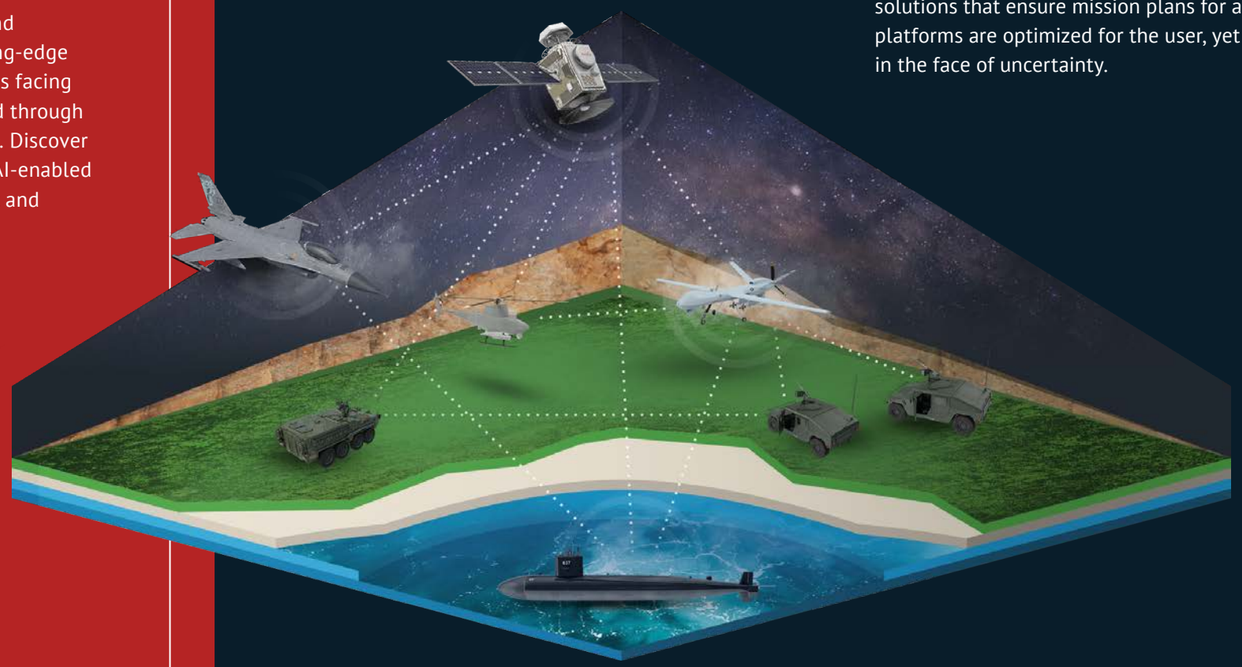
+ Capabilities

COLLABORATIVE MISSION AUTONOMY

We've created an open and modular software platform that puts intelligence into the machine. Operate and integrate multiple autonomous vehicles in and across domains to create disruptive mission capabilities.

VISION-BASED NAVIGATION

Scientific Systems has developed software that enables air platforms to navigate without GPS and/or be guided to land using only a single digital camera.



ADVANCED PERCEPTION & COGNITION

Inspired by living systems, we develop unique approaches to enabling autonomous systems to observe and orient themselves in complex environments.

ARTIFICIAL INTELLIGENCE

We enable autonomous systems to reason over sensory inputs, actively acquire information to fill knowledge gaps, predict possible outcomes of its actions and choose the best of course of future actions.

MISSION PLANNING

Mission planning takes on new dimensions for teamed manned and unmanned systems. We've developed solutions that ensure mission plans for autonomous platforms are optimized for the user, yet remain flexible in the face of uncertainty.

SCIENTIFIC SYSTEMS

+ Products

IMAGENAV™

ImageNav™ is a non-GPS precision navigation software that uses inertial navigation system information to match onboard camera imagery, including electro-optical and infrared, against stored geo-registered digital terrain elevation data (DTED) to determine the precise location of a suitable air vehicle in flight.

OPTICALLY-AIDED SAFETY ENHANCEMENT SYSTEM (OASES™)

Oases™ for Shipboard Landing (OASES-SL) is an optically-based shipboard landing aid for use with Group 3 or larger ship-based unmanned aerial systems. When mounted on an aircraft, OASES-SL provides a deck-relative aircraft position from the defined touchdown point at 25 Hz via an Ethernet connection to the air vehicle's flight computer.

Contact info@ssci.com for more information or to talk to one of our team members.