

ES2 Expands Hydrographic Survey Fleet with AI-Enabled Autonomous Survey Vessel

Archie expands hydrographic survey capacity and strengthens autonomous field operations, strengthening ES2's ability to support critical infrastructure projects.



ES2



Mythos AI

DENHAM SPRINGS, La. — ES2, Inc., a provider of geospatial and engineering services, today announced the expansion of its hydrographic survey fleet with the addition of Archie, an AI-enabled autonomous surface vessel (ASV), enabling ES2 to deploy autonomous and conventional survey platforms based on project requirements, site conditions, and operational objectives.



Powered by the Mythos AI autonomous survey platform, Archie provides AI-enabled mission management, autonomous survey execution, real-time operational awareness, and repeatable survey workflows, allowing survey teams to focus on hydrographic data quality while maintaining oversight throughout each mission.

“Autonomous technologies have changed how hydrographic surveys are performed by giving survey teams greater visibility into mission execution, survey coverage, and operational performance. ES2’s investment in Archie demonstrates how autonomous survey platforms are supporting the high standards required for professional hydrographic surveying, applying automation and autonomy to minimize risk and increase survey quality in complex hydrographic environments,” said Geoff Douglass, CEO, Mythos AI.

Across the United States, inland waterways and flood protection infrastructure are under increasing pressure from aging assets, shifting river conditions, erosion, and more frequent extreme weather events. Agencies including the U.S. Army Corps of Engineers, state departments



of transportation, and port authorities must monitor these dynamic environments with constrained field resources while maintaining safety in often hazardous conditions.

ES2 has already deployed Archie to address these challenges. On the U.S. Army Corps of Engineers' (USACE) New Orleans District revetment program, Archie supports ES2's work to conduct annual hydrographic surveys, including multibeam surveys, delivering condition data used to assess more than 1,000 miles of revetment protecting the Mississippi, Atchafalaya, and Red Rivers from erosion that threatens levees and navigation channels.

"Investment in Archie reflects how hydrographic surveying is evolving," said Andrew Milanes, President of ES2. "As our customers take on increasingly complex infrastructure projects, autonomous technologies help our survey teams meet the rigorous quality standards required more safely and efficiently. Combined with the expertise of our hydrographers, Archie expands our capacity to deliver reliable data that supports informed infrastructure decisions."

Purpose-built to operate in active navigation channels, congested river systems, and restricted-access environments, Archie supports a full range of hydrographic survey services, including multibeam and singlebeam surveys, navigation channel assessments, dredge measurement support, and underwater hazard detection, while its autonomous and remotely supervised capabilities enhance safety, operational efficiency, and compliance with USACE quality control requirements.

Working alongside Archie, ES2's conventional hydrographic survey vessel, Verboaten, provides shallow-water operations, quality assurance and verification, supplemental data collection, and nearshore survey support. Together, the complementary fleet positions ES2 to meet the growing demand for hydrographic data as infrastructure owners modernize aging assets, strengthen flood protection systems, and improve the resilience of critical infrastructure.



About ES2

Founded in 1996, ES2, Inc. is an SBA 8(a)-certified, Cuban-owned geospatial and engineering services firm serving government and private-sector clients. The company specializes in hydrographic surveying, GIS, land surveying, and Unmanned Aerial Systems (UAS), complemented by civil engineering, environmental consulting, project and program management, construction management, and disaster management services. Registered as an engineering firm in Alabama, Arkansas, Colorado, Florida, Louisiana, Mississippi, Nevada, Oklahoma, and Texas, and as a surveying firm in Louisiana and Texas, ES2 supports critical infrastructure projects across the United States.

About Mythos AI

Mythos AI develops vessel-agnostic autonomy, navigation, and command-and-control software for crewed and uncrewed maritime platforms. Its technology enables autonomous mission execution, collision avoidance, automated hydrographic surveying workflows, remote supervision, and real-time situational awareness across defense, government, and commercial operations. Mythos AI systems support programs across the U.S. Services and maritime industry. The company is headquartered in West Palm Beach, Florida

