ALION

REAL MISSION READINESS
Synchronized Modernization and Sustainment Solutions

MEETING DEMANDS FOR SPEED AND COST

The United States' long-standing military dominance has been supported, in part, by some of the most advanced, capable platforms on the planet. But these platforms take a long time and large budgets to create, especially as technologies evolve and adversaries become increasingly mature.

In addition, lack of supply due to aging fielded systems, OEMs who go out of business, restricted access to raw materials, and more poses a serious threat to operational readiness. Yet, systems in the field must be able to maintain continuous combat capability, regardless of budget pressures or age.

To stay ahead, the U.S. must complement its new platform investments with intelligent, nimble modernization approaches to support the long-term combat effectiveness and viability of existing military platforms— all in an environment where demands for speed and budget restraints are growing every day.

GETTING AHEAD OF THE NEED

At Alion, we are helping our defense and national security clients tackle evolving modernization, sustainment, and obsolescence issues on time, on budget, and absolutely to spec. Through full-lifecycle support, we can help you protect system integrity and uptime, so you stay mission ready.

In addition to more traditional solutions, we are helping close the security gap by embedding cyber hardening across a variety of platforms and control system networks that others leave unprotected. We apply our technical capabilities in deep and machine learning to implement solutions beyond what humans can achieve alone.

With 30% veterans and forward-deployed engineers, we bring operational experience to deliver solutions that work in the real world. From program management to complex logistics and engineering, we have the experience and expertise to make sure America's military stays ready and stays ahead.

OUR MODERNIZATION & SUSTAINMENT SOLUTIONS

We provide a broad range of modernization, sustainment, and obsolescence solutions to support clients across every branch of service. With our vendor-agnostic approach and an agile engineering methodology applied to each project and program, we help clients save time and money, while delivering industry-leading solutions to support the United States' continued defense and national security.

LIFECYCLE SUPPORT

We provide complete operational sustainment and lifecycle support to maximize platform capability and lifespan. Our services encompass in-service support as well as lifecycle logistics, including technical data development using machine learning, contractor advisory services, and interim supply support. We also conduct availability planning, execution and control, and provide schedule management and onsite logistics representatives at home ports to ensure optimal results.

CYBER HARDENING

We help clients harden platforms and control systems against cyber threats — even if they're already deployed — without the need for costly and risky redesigns. With custom-built solutions to assess, block, and mitigate both known and unknown (Zero-Day) attacks, our off-the-shelf, drop-in tools deliver a fast, affordable way to neutralize current platform threats, while we use deep and machine learning to build cyber hardening into the systems of the future.

DATA ANALYTICS

With our unique combination of in-the-field knowledge and technological ingenuity, we support clients with root-cause analysis, opportunity identification, and maintenance decision prescription to help synthesize and activate the data they need for mission success. We use applied artificial intelligence (Ai), autonomy, deep learning, and machine learning to make sense out of massive data sets for better-informed modernization decisions.

OBSOLESCENCE MANAGEMENT

Our experts use deep and machine learning to identify unresolved, mission-degrading obsolescence issues and provide solutions that are both mission and cost effective. We design hardware and software to replace obsolete components, and our supply chain experts can identify and qualify alternative commercial-off-the-shelf solutions or suppliers. We make sure you have what you need to keep moving, no matter how the environment evolves.

To learn more about our complete package of modernization and sustainment solutions, or to get connected with one of our experts, visit us online at www.alionscience.com/modernization.

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About Alion Science and Technology

At Alion, we combine large company resources with small business responsiveness to design and deliver mission-critical engineering solutions. With an 80-year technical heritage and an employee-base comprised of more than 30% veterans, our engineers, technologists, and program managers bring together an agile engineering methodology and the best tools on the market to deliver mission success faster and at lower costs. Based just outside of Washington, D.C., we help clients turn big ideas into real solutions. For more information, visit www.alionscience.com.

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