Capabilities Overview
At Leidos, our employees are inspired to create innovative technology solutions that solve the world’s toughest problems. We call it our culture of innovation. We are committed to investing in critical internal research and development efforts that respond to your challenges, even as we work to deliver the next generation of agile, cohesive solutions necessary for today’s rapidly changing environment.

I am proud to present the following portfolio of capabilities our company has to offer. I look forward to learning more about your current challenges and our opportunity to create customized solutions for you.

ROGER A. KRONE
CHAIRMAN AND
CHIEF EXECUTIVE OFFICER
MISSION/VISION/VALUES
OUR OFFICES
CIVIL OVERVIEW
DEFENSE OVERVIEW
HEALTH OVERVIEW
INTELLIGENCE OVERVIEW
CULTURE OF INNOVATION
CAPABILITIES OVERVIEW:
  Airborne
  Artificial Intelligence/Machine Learning
  Aviation
  C4ISR
  Cloud
  Commercial Energy
  Cyber
  Data Analytics

Enterprise IT Modernization
Environment and Infrastructure
Exploration and Mission Support
Federal Health IT
Homeland and Transportation Security
Health Systems and Hospitals
Intelligence Services
Life Sciences
Maritime
Mission IT
Modeling, Simulation and Training
Operations and Logistics
Secure Development and Operation
Sensors and Situational Awareness
OUR COMPANY MAIN CORE VALUES, MISSION, AND VISION

MISSION
Leidos makes the world safer, healthier, and more efficient through information technology, engineering, and science.

VISION
Become the global leader in the integration and application of information technology, engineering, and science to solve our customers’ most demanding challenges.

We will deliver innovative solutions through the efforts of our diverse and talented people who are dedicated to our customers’ success. We will empower our teams, contribute to our communities, and operate sustainably.
VALUES

**INTEGRITY** is having the courage to make tough ethical decisions, taking pride in our work, being transparent with our team, and being respectful of everyone.

**INNOVATION** is not limited to our engineers and scientists. We must all act as catalysts. Be tenacious and curious to help us excel, and be a part of a learning organization.

**AGILITY** is our ability to think and act small while using the size and strength of our balance sheet to our advantage. It is about being flexible, creative, and resilient.

**COLLABORATION** is being inclusive, team-oriented, and proactively engaging—building relationships and staying connected with each other.

**COMMITMENT** to our customers and our team means we are accountable, take ownership, model servant leadership, and operate with a sense of urgency.
Leidos is dedicated to becoming the global leader in the integration and application of information technology, engineering, and science to solve our customers’ most demanding challenges. With more than 400 locations in 30 countries, we continue to expand our presence and strengthen our international relationships.
U.K. & EUROPE
The UK & Europe collectively plays a central role in our future growth strategy with more than 1,200 Leidos employees contributing to make the region more secure.

AUSTRALIA
More than 1,000 people strong, our Australian operations are of strategic importance for Leidos, through a number of critical technology capabilities.

MIDDLE EAST
We believe in the strength of enduring partnerships to provide practical answers to some of the Middle East’s most complex challenges.

CANADA
From information solutions to healthcare technologies — Leidos Canada provides a wide range of technology services to government agencies and private enterprise.

ISRAEL
Leidos Israel partners with the local technology eco-system to develop the innovative in-country talent and enhance our global expertise.
Our Civil business is helping to modernize infrastructure, systems and security by offering transformative information technology, expert logistics, and proven inspection technologies for government and highly regulated commercial customers. Leveraging well-defined technical core competencies, our talented team helps solve technical challenges and implement newfound efficiencies on a number of programs including those that power homes and businesses, guide air traffic, streamline census data collection, protect digital footprints, contain environmental incidents, heighten port security, and enable scientific discovery.

Artificial Intelligence/Machine Learning
Aviation
Commercial Energy
Cloud
Cyber
Enterprise IT Modernization
Environment and Infrastructure
Exploration and Mission Support
Homeland and Transportation Security
Operations and Logistics
Secure Development and Operations

**PRIMARY CUSTOMERS**

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From seafloor to cyberspace, Leidos is delivering innovative solutions that help our customers protect what’s most important. Our uncompromising focus is on evolving and accelerating readiness, resilience, and strategic modernization. Leidos has nation-scale expertise, working alongside domestic and international organizations and agencies—including the DoD, DISA, and all branches of the U.S. military—to revolutionize and future-proof their capabilities around the world and across domains.

With a 50-year heritage, an agile workforce, and a dedicated innovation center, Leidos is bridging the gap between industry and academia and government challenges. We’re bringing to bear a new generation of tools, technologies, and systems that are changing the way our global customers protect citizens and critical assets and information.

Airborne
Artificial Intelligence/Machine Learning
C4ISR
Cloud
Cyber
Data Analytics
Maritime
Mission IT
Modeling, Simulation and Training
Operations and Logistics
Secure Development and Operations
Sensors and Situational Awareness

**PRIMARY CUSTOMERS**

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From the research bench to the patient bedside, we integrate engineering, science, and clinical insights with technology to develop impactful, outcome-based solutions.

Recognized as a Top 10 Health IT provider, Leidos draws on decades of success to deliver a range of solutions and services designed to meet the healthcare challenges of today. We deliver a broad range of customizable, scalable solutions to hospitals and health systems, biomedical organizations, and every U.S. federal agency focused on health.

Leidos works with customers across the continuum of care to improve clinical, operational, and financial outcomes with innovative solutions that advance the next generation of care. Our mission is to contribute to creating a healthier world.

Artificial Intelligence/Machine Learning
Cloud
Data Analytics
Federal Health IT
Health Systems and Hospitals
Life Sciences
Operations and Logistics
Secure Development and Operations

PRIMARY CUSTOMERS

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<th>U.S. Social Security Administration</th>
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<td>U.S Department of Health and Human Services</td>
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10
INTELLIGENCE

Our intelligence capabilities provide seamless transition from strategic to tactical levels, integrating novel methods into current operations and leveraging big data architectures and analytics that allow users to provide critical decision support at revolutionary speed.

With expertise in cloud-enabled automation and augmentation and a team adept at harnessing machine learning, we’re applying powerful analytic tools for superior performance and protection despite a staggering breadth of data.

We’re focused on ensuring our intelligence customers have the right tools, technologies, and tactics to keep pace with an ever-evolving threat landscape and succeed in their mission to protect people and critical assets around the world.

Artificial Intelligence/Machine Learning
C4ISR
Cloud
Cyber
Data Analytics
Enterprise IT Modernization
Intelligence Services
Mission IT
Operations and Logistics
Secure Development and Operations

PRIMARY CUSTOMERS

Intelligence Community
FBI
U.S. Army
U.S. Air Force
U.S. Navy
CULTURE OF INNOVATION

LEIDOS INNOVATION CENTER

Leidos is a company built on scientific research and development (R&D). From our first contract in 1969 researching the effects of nuclear weapons, to our ongoing research in AI and machine learning, Leidos has a legacy of important innovation. The Leidos Innovations Center (LinC), a $300 million R&D division within the company, builds on this heritage by applying scientific breakthroughs to solve hard problems for our customers.

OUR TEAM

We have a commitment to sustain a culture of innovation at all levels within Leidos, and the right people are in the right place to make it possible. About 39 percent of staff have degrees in science, technology, engineering, or math (STEM) fields, and there are more than 70 Technical Fellows in the company. Technical Fellows are Leidos technical staff members with recognized stature in their chosen fields as national, even world-class, experts. Our technical staff are key differentiators for Leidos.
960 employees with PhDs

6,300 employees with Master’s Degrees

39% employees with STEM Degrees
We specialize in the development, operations, and maintenance of both manned and unmanned airborne systems. Leveraging decades of operational and technical integration expertise, our systems have successfully flown thousands of hours supporting the warfighter in combat zones, as well as, on the ground processing and exploiting mission-critical information.

- Design, integration, and operations of manned and unmanned airborne information, surveillance, and reconnaissance (ISR)
- Turn-key, quick-reaction airborne ISR solutions
- Sensor and communication integration, mission planning operations
- Geospatial tools, products, and services for precise global

OUR SOLUTIONS

High-Resolution 3-D Geospatial Information (HR3DGI)

HR3DGI is a sensor system for collection and processing of sensor data to generate unclassified, high-resolution, 3-D geospatial information critical to tactical customer needs. HR3DGI is platform agnostic and has proven its capability in operational deployments on a variety of manned and unmanned aircraft.

Next Generation Remotely Piloted Aircraft (RPA) Operation Center

Our unmanned systems provide proven and current competencies in system engineering, modernization, and sustainment for all aspects of RPA remote split operations, primarily in the areas of command and control for both fixed and mobile operations, 24/7 operations centers sustainment, and mission support to include integration across operations centers, ground control systems, platforms, sensors, and satellite communication facilities.

The Leidos Audio Multi-Level Security (MLS) System

The Leidos Audio Multi-Level Security (MLS) System, designed in partnership with Clear-Com®, LLC, is a communications system that supports audio transmission across multiple security domains. By streamlining operator workstations with a single microphone headset for use across multiple security enclaves, it enables the user to communicate seamlessly with mission partners on both classified and unclassified networks while maintaining isolation between domains.
Multi-INT ISR Platform with Modular Sensor Capability

Our team leverages decades of operational and technical integration expertise to rapidly design, integrate, deploy, and support specialized, leading-edge airborne ISR (AISR) sensor packages. Leidos AISR systems have flown tens of thousands of hours supporting the warfighter in combat zones. Our systems have led the battle against improvised explosive devices (IEDs) and other threats. Our expertise includes sophisticated ground stations able to process and exploit critical information.
We’re helping our customers adopt reliable, secure, and resilient artificial intelligence (AI) and machine learning (ML) solutions that turn data into new opportunities for insight and efficiency. Our deep understanding of our customers, their data, and their missions allows Leidos to deliver AI and ML solutions that provide real value immediately and across multiple domains.

Leidos is also protecting the AI and ML environment from cyber vulnerabilities through R&D programs. In addition to developing strong security guarantees, we are creating ways to reduce mission-impacting biases, verify that systems are trained adequately for deployment, and ensure they cannot be deceived by bad data.

As a leading provider of data-rich solutions for the U.S. government, our knowledge enables us to take a disciplined, science-based approach to AI and ML that distinguishes our solutions underscores our capabilities and expertise in the following:

- **Deep learning**
  - Convolutional Neural Networks (CNNs)
  - Faster Regional-Convolutional Neural Networks (R-CNNs)
  - Reinforcement Learning
  - Long Short-Term Memory (LSTM) networks
- **Resilient AI**
  - AI/Counter AI
  - AI Assurance
  - AI Privacy
- **Natural Language Processing**
- **Speech Processing**
- **Computer Vision**
- **Cognitive EW**
- **Cyber AI**
- **Predictive Analytics**
- **Unsupervised Learning**
- **Anomaly detection**
- **Graph analytics**
- **ML Microservices**
- **AI Deployment**

**OUR SOLUTIONS**

**R&D Programs**

Leidos is leveraging its R&D efforts to support and grow AI/ML, including:

- Developing AI-powered computer vision algorithms to identify man-made structures in overhead imagery across Rio de Janeiro, which covers roughly 500 square miles. A team of Leidos data scientists estimated it would take an individual analyst roughly 44 weeks to identify and categorize these structures across the entire city. But the automated solution was so advanced it learned to identify them on its own, reducing analysis time to a matter of hours.

- Using AI/ML to spot serious cybersecurity flaws. The solution applied natural language processing to help observe the early stages of cyber-attacks through unconventional signals, including Tweets and other open source data. The solution demonstrates how AI/ML capabilities are speeding up threat intelligence and changing the cybersecurity landscape.
Leidos is a trusted systems integrator serving Air Navigation Service Providers including the Federal Aviation Administration, the Transportation Security Administration, and airport operators. Our work in airport modernization helps stakeholders achieve stated objectives including increased operational efficiency and safety, a technology enhanced passenger experience, non-aeronautical revenue enablement, and state-of-the-art situational awareness and security.

- Help manage air traffic for 2.5 million+ traveling passengers every day
- Winner of two 2016 IHS Jane’s Air Traffic Control (ATC) Awards

**OUR SOLUTIONS**

**Air Traffic Automation**

Leidos air traffic control systems are used in Air Navigation Service Provider (ANSP) facilities that control more than 60 percent of the world’s air traffic. We work diligently to support the Federal Aviation Administration’s NextGen program with government accepted systems including En Route Automation Modernization (ERAM), Advanced Technology Oceanic Procedures (ATOP), Time Based Flow Management (TBFM), and Terminal Flight Data Management (TFDM). For the NATS system in the UK, we offer the SkyLine Air Traffic Management (ATM) suite to enhance safety, improve on-time performance, and increase fuel efficiency.

**FAA Professional Services**

We provide critical information technology, engineering, energy, environmental, safety and health, spectrum analysis, and training and flight procedure support for programs including the National Airspace System (NAS) and the Next Generation Air Transportation System (NextGen). Leidos carries out task orders at more than 60 locations stretching from FAA headquarters to service area locations nationwide.

**Airport Scenario Planning and Forecasting**

Our BEONTRA™ suite delivers highly detailed, schedule-based air traffic forecasts focusing on passenger and traffic figures covering all time horizons from hours ahead to the next 20 years. Forecasts are helping airports with capacity planning, revenue planning, route development, resource management, and long-term planning.
Airport Operational Systems

The Chroma™ Next Generation Airport Suite is a consolidated platform that enables airport operators, their partners, and stakeholders to put the passenger process at the heart of decision-making, enabling real-time collaboration, landside and airside alignment, and a holistic view of airport operations. Chroma includes solutions in Airport Operational Database (AODB), Airport Collaborative Decision Making (ACDM), Resource Management Systems (RMS), Flight Information Display Systems (FIDS), billing, and mobile services.

Drone Protection

Leidos is equipping airports with the tools necessary to identify, risk assess, and mitigate the threat from Drones, also referred to as Unmanned Aerial Systems (UAS) or Remotely Piloted Aircraft Systems (RPAS). We have established processes and decision support tools to help airports evaluate the risk of this growing technology and how it impacts operations.

Foreign Object Debris Protection

Varec, a wholly owned subsidiary of Leidos, designs, integrates, and installs a network of runway surface detection units (SDUs) that provide foreign object debris alerts, imagery, classification, and reporting.

Fuels Management

Another solution from Varec is the FuelsManager Aviation software that improves logistics, data collection, and accountability of aviation fuel and glycol management operations.

Baggage and Cargo Scanning

Our Reveal® product line provides automatic explosives detection and state-of-the-art imaging that meets the world’s most demanding explosives detection systems (EDS) standards. Our VACIS® product line provides non-intrusive imaging of cars, trucks, cargo, and other vehicles to detect weapons, nuclear material, narcotics, undeclared goods, and other contraband.

Flight Management and Briefing

Our Flight Service program provides the general aviation community with preflight and in-flight meteorological and aeronautical information, operational services for national airspace continuity of operations, emergency services for conditions of distress, and special services such as education and outreach.
Leidos is a Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) force multiplier, providing equipment, supplies, facilities, transportation, tools, materials, and other mission-critical services essential to successful C4ISR systems integration.

We develop and deploy solutions built for the digital warrior, facing evolving threats across environments. Our ISR capabilities enable unparalleled understanding and enhanced decision-making in every domain for defense and intelligence customers, as well as the DHS. Leidos is at the forefront of ISR, supporting the development, operation, and maintenance of manned, unmanned, and autonomous ISR vehicles.

**OUR SOLUTIONS**

**International Aircraft Mission Planner**

A customized aviation mission planning system designed for international customers operating a wide array of helicopters and fixed-wing aircraft. The system uses intuitive menus that follow the logical workflow of flight operations, tailored to meet each customer’s unique mission requirements.

**CBRNE Effects Models**

The Joint Collaborative Analysis Model (JCAM) provides a net-centric collaborative environment for near real-time analysis of the impact of CBRNE events on military operations and National and Foreign civilian and military populations.

**Strategic Mission Planning Systems**

Leidos develops four of U.S. Strategic Command’s primary strategic C2 planning systems. The Aimpoint Construction System (APCS) processes the creation of aimpoints for strategic weapon application. Attack Structure Manager (ASM) system builds and manages the hierarchical plan structures. The Mission Planning and Analysis Common Services (MPACS) orchestrates, manages, and provides situational awareness of the planning process and advanced plan visualization.
USAF Air Operations Center Modernization

The Airspace Management Application-Airspace Information Services (ASMAASIS) provides AOC managers modernized airspace management and tools. Request for Information Services for Command and Control (RISC2) enables superior request tracking, auditing, and handling capabilities for the AOC.

Positive Train Location (PTL)

The Leidos PTL solution provides real-time sub-meter tracking information through a broad range of operational environments, including those without Global Navigation Satellite (GNS) services. The system provides users with precise position data, including end-of-train and track discrimination information, to enhance safety and overall operational efficiency.
Leidos is an end-to-end solutions provider with validated experience supporting your business in its cloud adoption journey – be it government, commercial, healthcare, defense, or national intelligence. We specialize in creating unique, innovative, secure and sustainable industry-leading solutions. This includes developing a viable cloud adoption strategy, establishing a meaningful business case that ensures value and future benefit realization. As an Amazon Web Services (AWS) Premier Consulting Partner, and a Microsoft Gold Partner, we deliver industry-leading public and GovCloud service offerings and are an approved provider of secure community cloud services to federal, state, and local agencies.

**OUR SOLUTIONS**

**CLOUDbank™**

With Leidos’ CLOUDbank™, our expert staff and real-world experience makes us the trusted partner for your cloud initiatives. We assist our customers in determining their current and anticipated Total Cost of Ownership (TCO), we facilitate the execution of a migration readiness assessment and migration planning sessions as appropriate, and we help manage security costs by correctly assessing your data and selecting the appropriate cloud security controls. We also perform portfolio discovery, application analysis, and application rationalization, as well as mapping out application dependencies and categorizing the applications according to a predetermined application treatment plan.

**Cloud Migration**

The Leidos team leverages its system of systems understanding to help organizations determine which platforms or applications should migrate into the cloud now, and which should be part of a roadmap. Once a determination is made, we help procure, secure, and connect cloud services to your organization’s network, with automation that eliminates shadow IT from third-party providers.

**Developing in the Cloud**

The Leidos team of cloud experts consider Agile and SecDevOps within the context of ITIL, and incorporates industry best practices into its processes and designs. By considering Agile and SecDevOps within the context of ITIL, the processes can be morphed to take advantage of the methodologies’ benefits for teams and workloads when appropriate.
Secure Cloud Integration

Cloud integration is the linking of information flows between cloud-hosted applications and other applications hosted in different clouds or the data center. An integration tool or platform will automate the integration process by linking to cloud, IT and network security applications via their application program interfaces (APIs) and sending commands.

Cloud Connectivity

Cloud connectivity uses a variety of connection protocols to allow organizations to integrate with network, storage, compute, and even user environments. Our team of cloud experts will help your organization create optimal business agility so that you can adjust or scale according to market demand. Whether you are investigating AWS Direct Connect or Microsoft Azure Express Route among others, cloud connectivity uses a variety of connection protocols to allow organizations to integrate with network, storage, compute, and even user environments. The goal is to create optimal business agility, where the business can adjust or scale according to market demand.

Cloud Managed Services

While traditional Managed Service Providers (MSPs) help with monitoring and maintenance, we help our customers along the entire cloud adoption journey by offering an entire spectrum of cloud services. This includes developing a viable cloud adoption strategy, assessing an organization’s legacy environment, establishing a meaningful business case that ensures value and future benefit realization, managing migration to a private, public or hybrid cloud environment, as well as ongoing maintenance and sustainment of that environment.

PARTNERSHIPS

Leidos is an AWS Premier Consulting Partner, which is the highest tier within the Amazon Partner Network (APN). It recognizes partners that have made significant investments in technical skills and AWS expertise to drive successful customer outcomes. As an AWS Premier Consulting Partner, Leidos has proven performance deploying customer solutions on AWS, experience managing our customer’s mission-critical environments, and a strong team of trained and certified technical consultants.

As a Microsoft Gold Partner, Leidos has proven performance deploying customer solutions on Azure and Office 365, experience managing our customer’s mission-critical environments, and a strong team of trained and certified technical consultants. The Microsoft Gold Partner Cloud Platform competency, allows Leidos to help customers modernize their infrastructure, migrate applications and data to the cloud, and build analytics solutions on data platforms in the cloud. In addition, the Cloud Platform competency enables hosting and managed services for customer infrastructures.
Our industry-leading portfolio of energy solutions benefits utilities, lenders, developers, energy efficiency administrators, and manufacturing and industrial clients. We provide tailored solutions that support grid modernization, renewable integration, infrastructure protection, systems integration, and energy conservation efforts. Past performance includes work with more than 500 utilities, more than 350 lenders, developers, and investors, and the big three automakers.

**OUR SOLUTIONS**

**Power Delivery**
Highly ranked in Transmission and Distribution by Engineering-News Record, Leidos brings a comprehensive service offering to electric utilities, including planning, design, engineering, and operations support. We help utilities develop a clear vision of the modern infrastructure needed to safely and reliably deliver electric power service.

**Project Development and Financing**
Leidos applies technical, commercial, and regulatory expertise to advise the development, financing, restructuring, and acquisition of capital-intensive energy assets. Our capabilities span electric generation, biofuels, oil and gas infrastructure, transmission and distribution, and emerging energy solutions meeting the demands of the evolving marketplace.

**Energy Efficiency**
Leidos has been a pioneer in the energy efficiency industry for more than 30 years, and we continue to provide innovative, industry-specific solutions today. Our full-service, turnkey energy efficiency and conservation program administration service has earned several awards from industry associations and the *Climate Change Business Journal*.

**Industrial Systems**
As a member of *Control Engineering*’s System Integrator Hall of Fame, Leidos is transforming systems integration and energy management in the manufacturing space. We specialize in manufacturing execution systems and Andon, enterprise data solutions, software development, energy savings performance contracts, and energy engineering.
Intelligent Infrastructure

With deep expertise in systems integration, sensors and controllers, machine communication, advanced analytics, network infrastructure, and cloud operations, Leidos is equipped to cost-effectively deliver the promise of intelligent infrastructure. We create exceptional business value from advanced solutions tailored to exacting requirements for smart utilities, industries and cities.

Utility Security

Leidos is uniquely equipped to help utilities meet North American Reliability Corporation critical infrastructure protection standards and retool their physical security, cybersecurity, critical communications, and grid resiliency efforts to protect assets from evolving threat vectors. We utilize decades of experience in the national security sector to deter physical and cyber threats, and protect critical utility assets.
When you’re trusted with protecting some of the world’s most heavily attacked networks, it’s because you know cybersecurity should be built in, not bolted on. Leidos brings a new perspective to cybersecurity and the singular expertise of defending global cyber interests and delivering advanced capabilities honed from protecting some of the world’s most critical assets. Our cyber solutions and services ensure an adaptive defense strategy, sustainable threat protection, and a mature security posture.

Leidos is a recognized leader in cybersecurity across the federal government. Our team of cyber experts—including a deep bench of cleared developers and solutions architects—have a proven track record of delivering agile, game-changing cyber solutions in operations, government defensive, analytics, and commercial:

- Protecting data, networks, and systems against cyber threats from the most sophisticated adversaries
- Managing and monitoring cybersecurity operations and network operation centers
- Designing and deploying cryptographic and key management implementations
- Cloud security and cloud computing
- Reverse engineering malware
- Non-signature based threat detection
- Innovative research and development to detect insider threats
- Comprehensive testing and certification

OUR SOLUTIONS

Defensive Cyber and Cyber Health

We have the specialized expertise to conduct intelligence-based cyber defense, enabling the development and implementation of a mature and adaptive cybersecurity solution. Leidos put this philosophy into practice — using next generation technologies and processes to maximize the effectiveness of defensive cyber operations enabling the development and implementation of mature, adaptive cybersecurity solutions.

Security Operations Center (SOC) Services

In order to best support an organization’s strategic vision, Security Operations Centers (SOCs) must be equipped to defend against increasingly severe and frequent cyber-threats. Building, staffing, and tooling a SOC to support an intelligence-driven defense posture requires skilled analysts, tuned technologies, and a proven analytic framework. Leidos helps our customers build their SOC into an intelligent, integrated center poised to proactively defend your network through engagement types that are tailored to complement the custom needs of their team.
Open Source Intelligence and Cyber Threat Analysis Services

Our cyber threat analysis services provide a customizable state-of-the-art web, social media, monitoring, and analytics solution providing context for the analysis and application of cyber threat intelligence. By using broad market information to predict threat actor’s behaviors, tradecraft in global threat intelligence and trending on types of attacks in a sector, our cyber threat analysis services provide a customizable forecast of potential threats and vulnerabilities.

Endpoint Detection and Response (EDR) Solution

The EDR Solution secures your endpoints with best-of-breed threat intelligence and EDR technology combined with services from our team of seasoned cyber defenders to monitor your environment and proactively defend your assets. The EDR Solution provides real-time threat detection of both known and unknown threats using machine learning and behavioral analytics.

Arena ATM™: Advanced Threat Monitoring Platform

Identify threats and rapidly adapt defenses to ever-evolving attacks with Arena ATM—a specialized, file-centric threat detection platform that provides cyber analysts robust network visibility and email-focused intrusion detection capabilities. The web-based user interface enables the search and review of network traffic data for file-centric threats on the network and empowers analysts to create their own detections, and increase efficiency.

Arena ITI™ Insider Threat Identification Platform

Our award-winning Arena ITI solution provides organizations with proactive identification of potential insider threat activity. Arena ITI takes a holistic approach to detecting insider threats, seamlessly integrating data sources across the organization with individual modeling behavioral indicators to provide the most robust, advanced insider threat detection program available.

ExpeditionaryRT (XRT) (Tactical Real-Time SIGINT)

XRT is a high-performance computing platform that conducts data warehousing, performs data enrichment, and executes advanced analytics, all in a small form factor available to the warfighter. XRT provides real-time ingest, processing, alerting, and analysis in support of critical signals intelligence missions.

Federal Agency Cybersecurity

Our cybersecurity capabilities defend government networks and critical systems from external threats, insider threats, and optimize system resiliency. Leidos provides information assurance capabilities to key federal customers including the Federal Bureau of Investigation (FBI) and has expertise in transitioning security operations centers to a more proactive security intelligence posture and provides expert counsel to government Chief Information Security Officers (CISOs).
Data Analytics

Tools and expertise built to deliver actionable intelligence from disparate data sources; designed for the Intelligence Community, applicable to all markets we serve. These tools will help find trends, recognize patterns, identify potential causes, and forecast the future. The ultimate goal is to provide analysts an enhanced vision to help avoid surprise, understand the present, and shape the future.

OUR SOLUTIONS

Advanced Geospatial Framework (AGF)
AGF is a multi-INT framework that delivers “big data” to analysts through a standard web browser using the existing communications infrastructure. It seamlessly integrates multiple sensor types into a consistent thin-client environment where users can search for all available data types over any geographical region over any time period.

DigitalEdge™
DigitalEdge is a platform that integrates ETL (extract, transform, and load), real-time processing, and big data stores into a high performance analytic system. The DigitalEdge solution is designed to handle the deluge of today’s data in either batch or streaming modes. Coupled with the high-speed ingest is the capability of normalizing and correlating to external data sets.

GRGlobe™
The GRGlobe application brings enhanced geographic information system (GIS) capabilities to the Google Earth™ globe, providing the ability to create, edit, and visualize GIS data natively while supporting multiple formats such as KML, shapefile, and geodatabase. The application structures GIS data using like attributes and geometry (points, lines, areas) for visualization on a Google Earth globe, enabling users to categorize logically using attributes and visualize custom-themed symbology based upon feature attributes.

Publicly Available Information (PAI) Exploitation Platform (PXP)
Leidos has developed a robust threat intelligence platform fusing social media with the full universe of PAI data types (social media, text, imagery, and video). Leidos’ innovative data fusion model and real-time analytics makes the PAI Exploitation Platform an analyst’s on-stop shop for open-source data collection, transformation, discovery, visualization and analytics, and its eventual fusion with classified sources.
AIMES, AIMES Mobile, AIMES Motion Imagery

AIMES is a next-generation, full-motion video imagery exploitation tool created to solve the tough challenges faced by today’s motion imagery analysts. It includes an open architecture to enable integration of advanced processing algorithms and incorporation of dynamic, real-time task management capabilities to reduce analyst workload and speed the provision of intelligence to decision-makers.
Our Solutions

Enterprise IT, Engineering, and Operations
Leidos partners with four major intelligence agencies to specialize in highly-secure, mission-specific solutions and operations including the Intelligence Community Information Technology Enterprise Strategy (ICITE) initiatives and DIA Enterprise Infrastructure Engineering Services (EIES). We also develop, integrate, and operate the GEOAxis Identity Access and Management solution employed by multiple intelligence community (IC) agencies. We also offer unique capabilities in business analytics by combining our Big Data capabilities, Identity Access Management (IdAM), and IT operations to provide our customers a well-rounded assessment of their intelligence systems utilization.

Cloud and Data Center Operations
With our own deployment of the FedRAMP Solutions as a Service (SolaS) Community Cloud and Co-Location Services, Leidos helps customers design, architect, build, migrate, and manage their workloads in compliance with the Federal Cloud Computing Strategy and the Cloud First Policy. Our cloud implementation expertise goes beyond helping customers adapt relevant architectures—we provide comprehensive awareness of new services as they become readily available to help organizations and agencies achieve IT modernization imperatives with seamless, secure solutions.

Application Modernization
With the transition to fully digital citizen and government services, Leidos delivers transformative digital solutions that modernize our customers’ legacy applications and assist in the journey to better use of the cloud. Our solutions can help streamline cultural organizational changes; provide agile coaching in digital services; and integrate enabling technologies to improve efficiency and effectiveness within our customers’ businesses.
Asset Management and Service Catalog
Leidos provides Information Technology Service Management (ITSM) systems, integrated COTS solutions service desks, and asset management trouble ticketing systems as well as other standard services with an efficient management and delivery framework.

Critical Infrastructure Management
Leidos works to assist in implementing new system performances and cost saving measures in data center operations, supercomputing centers, cloud migrations, and software to address the high demand for efficiency with continuous budget pressures at the Department of Defense (DoD).

Application Integration
Today’s Joint Information Environment (JIE) require scalable, secure solutions that can interoperate across global networks, multinational partners, and multilevel security boundaries. Our work on enterprise data warehouses, big data solutions, and multinational information sharing enables customers to fully leverage their assets, and rationalize and simplify their application portfolios.

Application Development
All enterprises are not created equal. The DoD is unmatched in number of users, volume of data, and unique regulatory and security needs. We use agile DevOps approaches to rapidly evolve commercially available software solutions to deliver on DoD personnel, logistics, security, and command and control requirements.
Call Center Operations
Leidos has implemented a nation-wide network of Mission Support Services. Our integrated mission applications optimize the user experience and provide data analytics to help drive continuous improvement.

Enterprise Service Management
Information on the edge of the network provides the military an advantage. The agility of these solutions to be used on post and then quickly deployed to the edge are critical for our military. Our engineers have a proven record of delivering secure and reliable services needed to maintain the information edge on our adversaries.

Service Integration and Management (SIAM)
Service Integration and Management (SIAM) has proven to be one of the best solutions to address the increased popularity with Multi-sourced ICT environments known as “TowerModels”. By supplying the ‘mortar’ that binds the individual ‘bricks’ in the Tower Model, SIAM ensures that the range of constituent parts, whether outsourced or delivered internally, fit together to provide a single, effective ICT service to the user.

Agile Software Development
By leveraging the Scaled Agile Framework (SAFe) and similar techniques, our six leading software programs deliver capabilities including geospatial exploitation, open-source and internet exploitation, complex business systems, and a broad range of other intelligence tools.
Leidos is trusted by civilian and defense agencies with substantial environmental and sustainability driven missions. Our pedigree across environmental management, nuclear security, energy efficiency, infrastructure management, mission support, and IT modernization provides the applicable reach back needed to transform operations while modernizing aging infrastructure and maintaining environmental stewardship.

**OUR SOLUTIONS**

**Infrastructure Management & Operation**

We support several of the Department of Energy’s (DOE) largest nuclear production, operations and remediation sites including the Hanford Site in Richland, Washington; the Y-12 National Security Complex in Oak Ridge, Tennessee; and the Pantex Plant in Amarillo, Texas. At Hanford, we provide site-wide infrastructure management and operation including oversight of land and logistics, public works, information technology, fleet transportation, environmental sustainability and compliance, first responder services, and future project planning.

**Environmental Planning**

Leidos has a long history of completing concise, cogent, legally defensible National Environmental Policy Act (NEPA) decision documents like Environmental Assessments and Environmental Impact Statements, to meet Federal and state environmental compliance requirements. Industry and federal agencies turn to Leidos for our in-depth understanding of standard procedures, permitting agency requirements, and public and stakeholder participation. Leidos offers support in resource issues, impact analysis, and impact avoidance, minimization, and mitigation measures.

**Environmental Response**

Our environmental engineers and scientists address all aspects of remediation for soil, groundwater, surface water, and sediment, including removal, treatment, bioremediation, containment, resource management, land use and institutional controls, air emission control and monitoring, and remedy performance monitoring and reviews – including National Emergency Rapid Response. Leidos’ proven experience includes implementation and operation of remedies under multiple regulatory programs for a broad range of chemical and radiological contaminants in varied and complex site settings.
Energy and Environmental Modeling

Leidos has supported the DOE’s National Energy Modeling System and the Environmental Protection Agency’s Environmental Modeling and Visualization Laboratory for more than two decades by provisioning, maintaining, and supporting the use of high-performance computing and scientific visualization. Our DOE scope of work also includes strategic assessments of energy supply and demand, transmission and distribution, and conversion technologies.

Nuclear Security

Our nuclear technology and security professionals assist civilian and military stakeholders with nuclear deterrence, nuclear nonproliferation, and nuclear counterterrorism missions throughout the U.S. government. The Leidos team delivers essential services including nuclear criticality safety analysis and annual assessment, material control and accountability, and site safeguards and security support.

Science and Specialty Consulting

Leidos provides a highly-skilled staff of chemists, biologists, engineers, geologists, environmental scientists and support personnel for projects that require 24-hour emergency response, field work, onsite monitoring, or new materials and methods. On the advanced chemistry and materials development front, we are recognized for our materials and corrosion research, development, testing, and evaluation with the Naval Research Laboratory.
Our technical solutions enable more missions for agencies that conduct exploration and scientific discovery from the edges of the earth to the farthest reaches of the solar system. We also modernize information technology infrastructure and communications strategy for a variety of civilian agency missions.

OUR SOLUTIONS

Complex Logistics and Infrastructure Support

Leidos oversees all aspects of station services for research granted by the National Science Foundation at the three permanent research stations and vessels operated by the United States Antarctic Program. We provide logistics supply chain management, operational support for science execution, operation of research vessels, procurement of all food and supplies, researcher medical screening and travel arrangements, extreme cold weather clothing, intracontinental transportation coordination, food and shelter on the ice, and onsite facilities engineering and construction. Leidos also works with NASA to plan, coordinate, prepare, and pack standardized containers for all cargo missions to the International Space Station by international partner and commercial cargo vehicles.

Space Mission Operations

Leidos designs, develops, implements, operates, maintains, and sustains mission control and training systems in support of Human Space Flight. Our backend work is enabling NASA standard infrastructure, uninterrupted operations, and role-based security authentication. With expertise in ground command and control and telemetry disciplines, we also develop, support, and maintain large-scale satellite command and control systems. Our most recent system has delivered 2 million+ lines of code to support the International Space Station and all visiting vehicles.

Civil Spacecraft Engineering and Operations

With engineering expertise in a variety of disciplines, Leidos supports instrument and spacecraft programs with systems design, systems engineering, development, fabrication, integration, testing, and verification of space flight, airborne, and ground systems hardware and software. Space agencies turn to us when they need concepts of mission operations and in-space satellite servicing capabilities.
NASA Human Health and Research
Leidos supports the health, safety and productivity of crews living and working in space through the delivery of medical services, food services, research, technology development, engineering, operations, and flight hardware development. Our team was integral in the planning, analysis, and science associated with the “Year in Space” initiative recently completed by NASA.

Specialized Engineering Services
Leidos sustains a deep bench of scientific and engineering resources to help our customers solve their most challenging problems in engineering design, analysis, development, testing, and operations. Key skill areas include propulsion, materials, thermal, structural, aero-sciences, avionics and electrical systems, guidance navigation and flight control, flight and ground software, optics, systems engineering, test and validation, human centered design, and life sciences.

Commercial Low Earth Orbit (LEO)
Leveraging our NASA experience, Leidos is also supports commercial spacecraft operators with requirements definition and planning, payload design, mission integration, data analytics, human factors engineering, space food development, radiation analysis, and autonomous software design.

Environmental, Health, and Safety Support
Leidos supports environmental, health and safety requirements for various NASA centers. This includes environmental planning and engineering, regulatory compliance, operational safety, occupational health and industrial hygiene, construction management, deactivation and decommissioning, sustainability, energy upgrades and emergency spill response.
Leidos has a long history of success and innovation supporting health-focused programs within the federal government, including the U.S. Department of Defense (DoD), U.S. Department of Veterans Affairs (VA), and U.S. Department Health and Human Services.

OUR SOLUTIONS

Health IT
Leidos Health and Life Sciences solutions empowers our people to provide innovative IT solutions that can manage and protect our customer’s information, provide new means to connect with their customers, and solve their most pressing issues. Our solutions range from developing applications to detecting outbreaks, to enabling mobile access and telemedicine solutions, to creating systems that conduct analytics on Medicaid fraud prevention, and to providing flexible hosting environments. We maintain a strong set of industry leaders as partners to broaden the capabilities that we can draw upon to drive our innovation and accomplish more for our customers.

Independent Medical Exams
Leidos is the largest nationwide private provider of disability and occupational health examination services. Our more than 30-year history has been marked by a focus on delivering high-quality, technology-driven, exam solutions for our customers. We apply a customized, systematic operational workflow to administer evaluations, supported by innovative technology that achieves extraordinary quality, timeliness, cost-effectiveness, and customer service goals. We offer a complete one-stop shop for medical, disability, and occupational health services for federal and state governments, municipalities, and agencies including the DoD, VA, the Federal Occupational Health Service, and the U.S. Department of Labor.

Advanced Analytics
As healthcare transitions from paper to digital records, data becomes integral to all aspects of care and the biggest source of opportunity to improve outcomes. Leidos brings data science to healthcare with big data management and analytics applications for the highest priority problems our customers face: sepsis, heart failure, diabetes, infectious disease, and fraud, wastes and abuse of healthcare resources. Through our work in predictive analytics and big data, Leidos can help monitor the spread of infectious diseases and provide the technology. We can provide the technology to assist the public health sector by analyzing data sets to predict, monitor, and prevent outbreaks.
**Healthcare Modernization**

The transformation from analog to digital systems requires integrated technologies, talent, and processes. Leidos brings systems engineering and program operations to deliver the most complete capabilities to our customers. The result of the combined efforts Leidos takes towards next generation Electronic Medical Records (EMR) in the commercial and federal sectors through DoD and the VA is an on-coming tsunami of data that can be leveraged to improve patient care, to efficiently allocate resources and to create Learning Health Systems.

**Precision Medicine**

Precision medicine is a new prevention-based approach to disease treatment based on an individual’s genetics, environment, and medical history to select the most effective prevention and treatment strategies. By delivering robust and scalable technology, operations, and program management to the national precision medicine platform, Leidos Health and Life Sciences delivers benefits to many stakeholder groups. Ultimately, a national platform for precision medicine will transform medicine from “one-size-fits-all” to precise diagnosis and more tailored treatments which will provide better outcomes at lower costs.
Leidos provides advanced technologies, products, and custom solutions to serve a variety of end users, including customs authorities, military agencies, airport authorities, law enforcement agencies, terminal operators, industrial and manufacturing companies and emergency first responders.

Core competencies include:

- Fixed gamma-ray configurations for high throughput
- Mobile gamma-ray configurations to support flexible concepts of operation
- Full-scan inspection systems for occupied vehicles
- Portable digital x-ray imaging systems
- Detection and identification of gamma and neutron sources including nuclear bombs
- Comprehensive global maintenance and world-class training services

OUR SOLUTIONS

Biometrics and Identity Management

With 20 years of experience, Leidos helps customers in this law enforcement and national security field. With programs like Next Generation Identification (NGI), Leidos has worked on developing a range of innovative devices, systems, and algorithms to support automated fingerprint identification, palm print identification, facial recognition, iris recognition, DNA identification, and all other forms of biometrics security. The NGI system processes an average of about 300,000 transactions a day, with a fingerprint accuracy rate of 99.6 percent, and priority-dependent response times less than 10 seconds.

VACIS® and RTR-4® Non-Intrusive Inspection Systems

Gamma-ray and X-ray imaging of vehicles and cargo, which includes:

- Permanently installed portal for gates and checkpoints with integrated radiation detection and optical character recognition.
- Truck-mounted mobile systems capable of scanning containers both in stationary or drive-through mode
- Scanning railcars and containers of trains as they pass by for radiation detection and identification
- Portable x-ray inspection in the field used to identify contents of luggage, packages, and vehicle compartments
RTR-5 X-Ray System

The RTR-5 is a next-generation portable x-ray system for detecting explosives, weapons, and other contraband. Utilizing a computed radiography (CR) plate and a unique digital radiography (DR) scanning system. The RTR-5 supports law enforcement, military, customs and security personnel in rapid deployment in extremely tight spaces and near real-time acquisition of multiple images forming a single approach.

Exploranium® Radiation Sensing and Classification Systems

The Exploranium system scans containers, trucks, cars, and railcars while in motion to detect and locate gamma-ray and neutron sources, displaying live and stored radiation profiles on graphic consoles used at thousands of installations for both government and commercial clients in the United States and other countries.

› Exploranium systems include:
  › AT-980 Radiation Portal Monitor
  › SRPM-210 Radiation Portal Monitor
  › ST-20 Radiation Portal Monitor
  › GR-135 Plus Radioscope Identification Device

Checkpoint Technology Integration

Leidos has supported the Transportation Security Administration since its inception with checkpoint technology integration at geographically dispersed airports, ports, terminals, cargo facilities, and other locations. Under various contract vehicles, Leidos provides logistics support, installation, integration, preventative and corrective maintenance, and end-of-life equipment replacement. Effectively, the Leidos team is helping to protect our nation’s transportation infrastructure and the people traveling within it.

First Responder Training

Leidos is the primary training delivery services contractor for the FEMA Center for Domestic Preparedness (CDP) and has served this role since the CDP’s inception in 1998. Leidos helps the CDP provide advanced all-hazards and mass casualty training to emergency responders.
OUR SOLUTIONS

Advisory Services

Our team of experienced clinicians, strategists, operational, and technological professionals understand today’s health care drivers. Using deep healthcare, business, to health IT knowledge, our advisory services provide valuable insights for strategic decision-making at both the enterprise and departmental levels, and help you stay focused on moving toward your strategic goals. Our approach is a collaborative process that aligns your vision to organizational, operational, and financial goals. This includes methodologies for future state assessments, vendor selection, total cost of ownership, and IT portfolio rationalization and management. Our focus is ensuring that you invest in new technologies systematically, deploy capital effectively, and use resources efficiently to achieve return on investment and meet the changing requirements for care delivery.

Electronic Health Record Systems Integration

Leidos provides a range of services designed to help providers select, implement, and optimize their health IT investments. Realizing the maximum benefits of an EHR system requires innovating beyond the go-live milestone to optimally use the data it possesses and advance outcomes. Our experience and institutional knowledge allow us to improve access to benefits, services, and health records by providing health exams that speed benefit determination, digitization of records eliminating disability backlogs, and interoperability and integrated EHR capabilities through infrastructure and IT modernization.
Integration and Interoperability
We bring deep health care expertise across federal and commercial domains, offering a proven enterprise-scale solution, leveraging clinical, EHR implementation, and health system interoperability skills/tools. Care coordination, as part of an overall enterprise performance management strategy, specifically focused on driving resource efficiency in clinical operations over a fiscal year, our solution utilizes a strategic staffing plan to forecast, monitor, and manage operating costs for clinical (and support) resources to meet business performance goals. Built on modern workflow technology and tied to modern business rules, we’ve adapted the application to the business needs not the business needs to the application.

Managed IT Services
We deliver IT modernization services to a variety of healthcare customers including hospitals, health systems, and federal health organizations. Having deployed and managed data centers worldwide and supporting thousands of applications across hundreds of hospitals, our experience and institutional knowledge allow us to improve access to benefits, services, and health records. We do this by providing health exams that speed benefit determination, digitization of records eliminating disability backlogs, and interoperability and integrated EHR capabilities through infrastructure, IT modernization, Cybersecurity, and data center optimization.

Performance Improvement
Healthcare organizations today are faced with a variety of complex challenges that are impacting organizational performance. As such, healthcare leaders are being pressed to improve financial, clinical, and operational performance in new ways. Our Performance Improvement solutions provide innovative, data-driven methodologies that strategically identify opportunities for organizational improvement. Taking a holistic view of enterprise performance, we integrate clinical, financial, supply chain, pharma, and ambulatory analysis to help drive change. Our approach combines our data expertise, deep domain experience, and targeted data analytics to achieve sustainable clinical and operational improvements tied to measurable outcomes.

Technology Implementation and Optimization
Leidos professionals have experience across all major EHR vendor systems including Allscripts, Cerner, Epic, and MEDITECH, as well as a variety of ancillary departmental systems. Our clinical, financial, and technical subject matter experts provide assistance at any phase of an implementation project, including pre-implementation planning, design, build, test, training, and go-live support. With our deep EHR experience, we also bring methodologies, project management, best practices, and unique insights to technology. After implementation, we help our customers get the most from their systems by optimizing functionality and performance. Our experts work with you to streamline workflows, improve adoption, reduce operational costs, make better use of technology, access and understand data, and meet regulatory reporting needs.
Intelligence Services

We provide a wide-variety of low cost, highly effective solutions and services to the intelligence community and DoD as well as federal and civil customers, leveraging our extensive experience in the intelligence tradecraft. Services include:

- **Intelligence Community Engineering and Services:**
  - Systems engineering, integration and test
  - Analysis and exploitation
  - Business process reengineering, soa and knowledge management

- **Collection, Analysis and Reporting Services:**
  - OSINT big data and data analytics as a service (DAaaS) solutioning
  - Multimedia exploitation and advanced fusion analysis
  - Cultural and linguistics analysis and reporting
  - Operational and technical digital content analysis and reporting

- **Operational Intelligence Direct Support and Training:**
  - Field support specialty analysis
  - Operations tactics, techniques and procedures and critical planning support
  - Specialty analysis and reporting augmentation

**OUR SOLUTIONS**

**Global Monitoring and Planning System (GLIMPS)**

The GLIMPS provides accurate, global forecasts on defined lead times of up to five years, focused on turbulent and complex environments, in order to provide the information needed to adapt to changing needs and resources. GLIMPS technology forecasts the effects of poverty, environmental degradation, political instability, and social tensions through big-data mining and machine learning of millions of open-source intelligence data points to discover the unseen relationships between indicators of stress and locations of potential instability.

**Social Media and Open-Source Internet Analytical Solutions**

We provide customers with access to a wide range of online media using a suite of advance analysis tools to identify under-the-surface insight from digital content. We specialize in measuring the spread of topics through online discourse, whether it is world events, messaging campaigns, brand management, key decision-makers, or communication effectiveness. We scale our service to meet customer demands, targeting only the sites, accounts, and relevant topics needed to save time and money.

**PRODIGAL (Insider Threat Detection)**

PRODIGAL is a suite of advanced anomaly detection algorithms that can detect and combine the weak signals that characterize known and unknown insider threat scenarios.
ISR CrossCue (IXQ)
IXQ is an automated collaboration tool that allows warfighters and analysts to rapidly obtain critical expertise across the intelligence community. IXQ harvests analytic activity data from intelligence production systems to form a high-fidelity profile of the unique skillsets and expertise of each analyst. Users can then search, discover, geospatially visualize, and connect with peers using the same temporal, geospatial, or contextual queries they might employ for products or reports. Warfighters and analysts use dynamically created, secure collaboration rooms to discuss their objective or problem set, with the capability to post files and links in addition to text. IXQ provides analysts and tactical customers with an unparalleled ability to rapidly discover and leverage subject matter expertise.

3-D GeoPDF Technology
3-D GeoPDF’s are Adobe Acrobat® PDF files containing geo-referenced imagery and digital elevation models within a single file that are compressed for transmission across limited bandwidth communications. The Leidos 3-D GeoPDF technology solution provides 3-D elevation model feature preservation and decimation technology, enhanced image noise reduction and decimation algorithms for various types of large imagery files, creating a smaller file footprint while maintaining high visual quality. The applications for this technology creates a high-quality, portable 3-D GeoPDF maps that can be easily transmitted across limited bandwidth communication channels for both non-technical and geospatial consumers.

Classified Infrastructure Programs
This work includes full lifecycle critical infrastructure sustainment and enhancements; operations, maintenance, and repair of U.S. government infrastructure and equipment; logistical support (i.e., procurement and purchasing, cargo shipment preparation, warehouse management, material handling equipment operations, inventory management, and shipping); information technology (IT) support, cyber sustainment; and special projects.

Intel Analysis and Training
Leidos provides training and analytical services to the DoD, the Joint Improvised-Threat Defeat Agency (JIDA), and Intelligence Community facilities both in and out of the contiguous states (CONUS and OCONUS) to support U.S. and coalition forces in Counter-Improvised Explosive Device (IED) operations and countering irregular warfare threats during our customers’ critical missions.

Multi-Source Intelligence
We use our expertise in data fusion and analytics to empower our customers to create superior intelligence solutions capable of ingesting multi-source data while also reducing the time for analysts to spend identifying meaningful intelligence, utilizing advanced data collection algorithms, processing, and delivering visualized and predictive analytics for a single version of truth to achieve mission success.
Leidos designs and delivers customized solutions that support groundbreaking medical research, optimize business operations, and expedite the discovery of safe and effective medical treatments. Our doctoral and master’s-level scientific and analytical professionals execute a diverse portfolio, which includes:

- Produce and test vaccines and therapeutics for human clinical trials and regulatory compliance documentation services.
- Providing biomedical research and development support including portfolio management and strategic planning to federal customers.
- Rapidly translate basic research into effective new ways of diagnosing and treating cancer and AIDS.
- Supporting the development, implementation, and sustainability of grant programs from pre-award through closeout.
- Detection and identification of gamma and neutron sources including nuclear bombs.
- Collaborating with major academic, government, and commercial research laboratories to improve human health.

**OUR SOLUTIONS**

**Cancer Aids Research**

- Basic and Applied Research
- A full suite of advanced technologies in areas such as genomics, imaging, and high-performance biomedical computing.
- Operates two drug and vaccine manufacturing facilities for the federal government.
- Pioneering the medical applications of nanotechnology with a focus on treating cancer.
- Monitors more than 300 clinical trials treating patients in the United States and around the world.
- Establishes public-private partnerships in research and development.

**Global Health**

- Emphasis on emerging, neglected, and tropical infectious diseases.
- A virtual pharma model that is innovative, efficient, and collaborative, with proven results.
- Full-spectrum, life cycle support from initial concept through exploratory basic research, development, preclinical, and clinical phases up to product manufacturing and launching.
- Translational approaches to accelerate research from bench to bedside.
Defense Medical Research and Threat Reduction

- Product development support designed to protect and treat our warfighters
- Scientific, program, and communication expertise to U.S. Army medical research program efforts in areas such as infectious disease, emergency medicine, psychological health, rehabilitative health, and biodefense.
- Scientific support to the Department of Homeland Security’s agricultural and biodefense threat research program
- Grants management support to the DoD involving more than $8 billion of congressional appropriations, over 12,000 grants, and more than 20 topic areas, including cancer, traumatic brain injury, and biodefense threat research program.
We provide mission-critical maritime ISR solutions by applying ocean physics, advanced sensors, communications, unmanned platforms, and autonomy systems, including:

- Unmanned, autonomous surface, and underwater solutions for intelligence and defense
- Advanced system architecture, platform, and sensor design and integration
- Maritime ISR, anti-submarine warfare (ASW), and radio frequency sensors and systems
- High-fidelity ocean modeling and simulation
- Hydrographic surveys and studies

OUR SOLUTIONS

**Anti-Submarine Warfare Continuous Trail Unmanned Vessel (ACTUV)**

Leidos led the team that designed and built DARPA’s Anti-Submarine Warfare (ASW) Continuous Trail Unmanned Vessel (ACTUV), now named Sea Hunter, which embodies the program’s goals to develop a highly autonomous unmanned vessel capable of operating over thousands of kilometers on the open seas for months at a time under only sparse remote supervisory control. Leveraging decades of naval architecture experience, Leidos began construction of Sea Hunter in 2014. With its modular trimaran design, the vessel is designed for enhanced stability in all kinds of weather. It incorporates a diverse sensor suite, including sonar, electro-optical, and short- and long-range radars. Through at-sea testing on a surrogate vessel, Leidos has proved ACTUV’s autonomy suite capable of operating the ship in compliance with maritime laws and conventions for safe navigation.

**Transformational Reliable Acoustic Path System (TRAPS)**

TRAPS is a rapidly deployable, low-cost, persistent, deep-ocean sensor system for long-range passive ASW. TRAPS nodes are deployable from a wide range of maritime platforms and provide up to one year of continuous surveillance.
Autonomous Unmanned Underwater Vehicle (UUV) Delivery Communication (AUDAC) (Leidos)

The AUDAC enables autonomous launch and recovery of small UUVs from a large host UUV to support data collection and dissemination.

Combatant Craft Medium (CCM)

CCM is a long-range, low-observable watercraft solution that can be tailored for individual or complementary vessel missions. It is capable of relaying critical intelligence to the warfighter at 52 knots during high-speed, coastal, and open-ocean maritime operations.

Surveillance Towed Array Sensor System Team Trainer (STT)

This family of trainers provides high-fidelity simulation and stimulation of submarine, surface, and integrated undersea surveillance system ASW sensors and is deployed worldwide in support of U.S. Navy personnel training activities.

Survey Analysis and Area-Based Editor (SABER) Marine and Coastal Mapping

SABER is an efficient tool for processing, editing, updating, viewing, and analyzing hydrographic survey data. It can generate depth, color-coded bathymetry, multibeam imagery mosaics, sonar imagery mosaics, survey coverage, and contour plots. When integrated with Leidos Automatic Contact Detection software, it can detect and measure bottom contacts in side-scan sonar data using neural network technology to measure dimension, reducing the number of false detections.

Integrated Survey System (ISS-2000)

The ISS-2000 allows professional hydrographers and surveyors to conduct a broad range of high-performance, shallow-water survey operations with proven International Hydrographic Organization accuracy.
Mission IT

We deliver transformative, cost-effective IT services to support mission-critical operations in the Defense and Intelligence communities; for the DoD, and DHS. Expertise and capabilities include:

- Systems integration
- IT mission support
- Application development and software maintenance support
- Cloud adoption, security, migration, and operations and management
- Analytic services
- Enterprise architecture
- Machine learning development and integration
- World-wide language services and solutions
- Geospatial services
- Help desk support

OUR SOLUTIONS

Comprehensive IT Solutions

Leidos provides a full spectrum of Mission IT Services for government agencies including asset management for office, conference, mobile requirements, service desk support, application management, and managed cloud, and data center services. As a managed service provider, we use our expertise in complex background operations to allow users to utilize the benefits of IT Services with ease.
Modeling, Simulation and Training

We develop, deliver, and maintain holistic live, virtual, and constructive (LVC) training systems to support force protection for fixed, semi-fixed, and expeditionary sites resulting in improved information management, operational performance, and efficiency, including:

- CBRNE solutions, emergency management
- Solution, product, and technology development for cross-platform training

OUR SOLUTIONS

One Semi-Automated Forces (OneSAF®)

OneSAF is the U.S. Army’s open-source, common constructive simulation platform for the Army, joint, and non-military communities to manage the entire simulation life cycle, from scenario development through after action review.

Non-Rated Crew Member Manned Module (NCM3)

The NCM3 is among the first virtual aviation crew trainers for the rear portion of the CH-47 Chinook and UH-60 Blackhawk aircraft. It enables helicopter crews to train together and improve mission coordination and proficiency prior to deployment.

RC-12X Cockpit Procedural Trainer

The Leidos cockpit trainer provides procedural, sustainment, and annual training simulation solutions for the RC-12X and Hawker Beechcraft King Air 350ER aircraft, enabling pilots and co-pilots to train without leaving the mission.

Synthetic Environment Core (SeCORE)

The U.S. Army’s SE Core Common Virtual Environment program provides simulations with the ability to fully integrate and operate within live, virtual, constructive, and gaming training domains to ensure the “fair fight.”
Cloud Simulation Infrastructure (CSI)
Using cloud technology and virtualization, Leidos has moved key simulation components into a common environment to provide easy, on-demand access to modeling and simulation—wherever and whenever you need it. Our Cloud Simulation Infrastructure enables organizations to deploy simulation solutions directly to remote users without the infrastructure investment, implementation lead times, and costs associated with legacy simulation approaches.

Memory Unit Tactical Air Crew Training Systems (MUTACTS)
The MUTACTS provides quick, accurate, and cost-effective post-flight review and analysis of military aircraft training missions. The MUTACTS and its companion product for pre-flight analysis, mission planning system (MPS), are both based on exportable map database technology.

Common Driver Trainer (CDT)
The CDT product line supports vehicle-specific, high fidelity, operationally relevant, individual and crew combat vehicle driver training. Based on a common architecture of hardware and software components, the architecture of the CDT product line can be easily expanded to develop simulators for current and future military platforms.

Soldier Monitoring System (SMS)
The Leidos Soldier Monitoring System provides a personal safety net for every member during live training, survival and other exercises. SMS helps address the top priority during training to prevent injuries and death of military and civilian personnel during live training.
We provide cost-effective tools combined with experienced thought leadership and enhanced processes to meet global, mission-critical customer needs through:

- Rapid, efficient, agile development, modernization, and life-cycle support
- Emergency and battle management, Naval combat systems, land weapon systems
- Protection of assets through surveillance and command and control access control

OUR SOLUTIONS

PROVM

ProVM is a data management tool that captures maintenance actions, material suppliers, and failure rates to deliver actionable intelligence to the warfighter for effective decision-making and enhanced combat readiness as well as improved sustainment, operational reliability, and availability of platforms.

Logistics Commodities and Services Transformation (LCST) Program

Leidos is honored to support the UK Ministry of Defence’s Logistics Commodities and Services Transformation (LCST) program. This will help transform the UK’s defense supply chain by providing an integration of a complex mixture of services, at low risk, using a modern suite of systems that will modernize and transform the LCS organization into a streamlined, end-to-end commodity support chain able to meet the Operational Commanders’ requirements at the point of need. MOD customers will be able to generate higher customer confidence with the ability to see accurate stock levels and stock in transit, as live data, enabling Front Line Commands to make better decisions.

Aviation Services and Operations (ASO)

The ASO mission area’s core capabilities center on fixed wing/rotary wing contractor logistics support and training. This includes, but is not limited to, aircraft and vehicle maintenance and repair; airborne intelligence, surveillance, and reconnaissance (ISR) mission services; systems management and modernization; training mission support; and logistics readiness support. We maintain Western and Eastern-Bloc produced rotary wing aircraft and possess specific part certification skills to identify lower quality counterfeit parts.
Navy, Range, and Infrastructure Programs
Leidos provides technical services support expertise in depot operations enabling cost-effective solutions for mission-critical equipment. We perform scheduled and unscheduled maintenance on Navy assets; range operation services for the Department of Defense (DoD) preparedness; update, repair, and replace legacy systems with new technology; and provide new radar data interfaces and range integration. We also intuitively and effectively integrate emerging technologies into operational context, partnering with customers to understand the complexities of their environments and provide solutions built to address ever-changing threat environments.

C5I Operations and Sustainment
Leidos is the provider of global mission-critical communications capabilities supporting joint services military personnel and coalition forces. We also specialize in C5ISR systems software sustainment, in-theater communications systems sustainment, post-production software support, fielding and training support, and cyber sustainment.

Public Relations and Communications Support
Our experienced communications team provides the full range of public relations and communications support. This includes writing, editing, graphic design, photography, videography, marketing, social media, conference planning and support, multimedia, website design, and mobile application development. We work in close collaboration with our government clients to understand their mission and provide them with cost-effective, innovative communications solutions.

Mission Infrastructure
Mission Infrastructure programs provide a range of services including basic facility support and operation, security, energy efficiency, and systems deployment. Leidos provides energy efficiency solutions that assist our customers to meet mandated sustainability requirements and capture Energy Conservation Incentive Program (ECIP) funding. Leidos Mission Infrastructure programs also provide enterprise solutions that maximize efficiencies across multiple sites, result in less redundancy, better customer service, and a reduction in cost.

Chemical, Biological, and Radiological Systems
Leidos provides technical, engineering, logistical, and operational, and maintenance support services. Our employees play an integral part in deploying and testing chemical, biological, and radiological (CBR) equipment. We support our customers in the fielding and sustainment of chemical, biological, radiological–defense (CBRN-D) systems, materiel, and personnel that are deployed in support of domestic preparedness, consequence management, and counter-terrorist operations. Our teams also assist the customer staff in support of operational activities associated with contingency operations and National Security Special Events.
Secure Development and Operations

Secure Development and Operations (SecDevOps) integrates secure development practitioners and cybersecurity and operation engineers to reduce vulnerabilities and rapidly deliver high-quality, highly secure products. Our focus on SecDevOps provides an integrated and standard set of tools and methods that result in reduced security risk combined with faster and more cost-effective project delivery. The Leidos SecDevOps capability can provide customers with a wide scope of benefits:

- Increase efficiency in reuse of artifacts, micro-services, and software capabilities
- Continuous integration/continuous delivery of secure software solutions
- Enable implementation of the Leidos Engineering Edge common Agile processes and best practices
- Fully automate deployments with consistent, repeatable results

**OUR SOLUTIONS**

**Data Center Operations**

Today’s data center consolidation efforts are less about centralizing equipment and more about modernizing how infrastructure is deployed. Organizations are looking to rightsize their data center and network footprints to reduce costs, improve cybersecurity, and simplify management of cloud, network, and application infrastructure.

- System and network monitoring and optimization
- Data center consolidation planning and execution
- Security management
- Staff allocation and data center process optimization Technology Refresh and Advisory Services
- Hardware and software support
- Capacity planning
- Systems integration, including COTS products
- Legacy systems bridging, integration, and retirement

**Integrated Metrics-based Governance and Management**

- Policy, standards, and procedures development
- Risk assessment, cost-benefit, and feasibility analyses
- Configuration and change control management
- Metadata, master data, reference data and data quality management; information assurance

**Cloud-Based Deployment Automation**

- Infrastructure as code
- Blue/Green application deployment
- Immutable servers
Leidos Enterprise Application Framework (LEAF)

The Leidos Enterprise Application Framework (LEAF) is a set of Leidos-developed reusable software libraries that allow our engineers to deliver cost-effective, custom software development solutions to our customers at near commercial-off-the-shelf (COTS)-speed. In combination with Agile and SecDevOps processes, LEAF helps Leidos build complex, custom software solutions better, faster, and cheaper.

Leidos’ LEAF software development model maximizes the use of extensible framework technologies to develop high-quality applications faster and cheaper by reducing the amount of boilerplate code needed to create an application.

We leverage LEAF to rapidly build and modernize software solutions that are tailored to meet each customer’s unique and dynamic needs. The framework provides reusable components for both frontend and backend development, such as customizable user interface (UI) components, data services, geospatial rendering, and workflow management and execution. Using these components allows developers to spend less time writing custom code and more time tailoring the solution to each customer’s needs.

LEAF is not tied to any explicit technologies and offers the necessary flexibility to accommodate emerging technologies and reduces long-term maintenance and sustainment burdens.
At Leidos, we develop innovative solutions in radar technology, electronic warfare, radiation detection, and ground sensing systems for advanced threat detection and real-time situational awareness in operational environments.

Our work in sensor systems solutions spans the full life cycle of development, including:

- Applied research
- Modeling and simulation
- Prototype development
- Operational system development
- Product manufacturing
- Algorithm development

**OUR SOLUTIONS**

**Distributed Network Ground Sensing**

We exploit breakthrough technology in micro-sensors and electronics to develop low-cost, networked ground sensors for ISR applications. We are experts in state-of-the-art ground sensing technologies; geophysics; design and development of very low size, weight, and power — cost, or SWaP-C, electronics; embedded software for device control and signal detection and exploitation; and physics-based network data-fusion algorithm design and implementation.

**Electronic Warfare (EW)**

We develop EW technology to dominate the electromagnetic spectrum while denying the enemy access to it. Our research focuses on advancement of electronic attack, electronic protection, and spectrum/sensing and resource management methods. We exploit commercial off-the-shelf (COTS) technologies to develop operational systems that feature low-cost reprogram ability; attractive size, weight, and power; and the ability to sense and adapt to a new or changing threat environment in real time.

**Integrated Building Interior Surveillance System (IBISS)**

The IBISS is a situational awareness tool for the warfighter that uses stand-off, through-wall radar sensors to reconstruct 3-D floor plans of building interiors, detect and track occupants, and display the composite dynamic interior situation in an interactive 3-D display.
Radiation and Radiography

We develop advanced portable radiography systems for use by military explosive ordnance disposal technicians to safely detect explosive devices in packages. We have delivered thousands of these devices to our customers. We also use our strong nuclear science and engineering skills to develop handheld military $\alpha$, $\beta$, $\gamma$ radiation detectors, solid-state neutron detectors and dosimeters, and continuous-operation air-monitoring radioactive particle-detection systems.

High-Power Microwave (HPM) Ground-Based Counter/Improvised Explosive Device (IED) Pre-Detection System

The HPM ground-based counter-IED technology is designed for route clearance, convoy, and security control, offering the only system in existence today with the ability to successfully pre-detone hazardous explosives at safe ranges, protecting warfighters from exposure to blast and shrapnel. The system also performs successful pre-detonation of a varied set of explosive hazards encountered in combat situations.
About Leidos

Leidos is a Fortune 500® information technology, engineering, and science solutions and services leader working to solve the world’s toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company’s 32,000 employees support vital missions for government and commercial customers. Headquartered in Reston, Virginia, Leidos reported annual revenues of approximately $10.19 billion for the fiscal year ended December 28, 2018.