GEOSPATIAL INTELLIGENCE

Securing Decision Advantage With GEOINT Excellence

Delivering GEOINT AI, advanced analysis, field support, and a comprehensive geospatial toolkit for the warfighter

Geospatial intelligence plays an essential role in equipping the warfighter to safeguard our nation's interests — from seabed to space. Without access to the capabilities, tools, and cross-functional expertise to help you enhance your GEOINT analysis and tradecraft, your organization could be at a tactical and strategic disadvantage.

ECS, a leading systems integrator and provider of AI/ML solutions to the Department of Defense (DoD), is ready to help. We bring the industry's best together to support AI model development, validation, and deployment. We seamlessly blend powerful technologies to deliver custom-tailored tools and provide off-the-shelf solutions. And, we lend the expertise of our intelligence professionals and engineers, who stand shoulder-to-shoulder with your analysts to provide ongoing training and mission support.

GEOINT AI

Innovation, Automation, and Data Analytics

With ECS' GEOINT AI capabilities, you can see the unseen and automate workflow processes. Leverage data analytics to uncover insights faster, optimize decision making, and accelerate AI development to unlock its full potential.

AI/ML Modeling and Algorithm Development

ECS supports a "field to learn" AI model development cycle that encompasses data curation, model training, validation, evaluation, fielding, and user feedback. We bring the industry's best together to facilitate AI development (more than 1,000 models delivered on behalf of the U.S. government), supporting algorithm development, validation, and deployment of multiple sensor types across multiple security domains.

Automated Intelligence

Advanced AI/ML technology transforms the way you collect and leverage open-source data.

Automated Feature Extraction	Automated GEOINT Detection	Analytic Model Development

GEOINT Open-Source Analysis

ECS Argos, a secure suite of data science and analytics tools, powers your GEOINT open-source analysis (GOSA) with publicly available information (PAI) and open-source intelligence (OSINT).

ARGOS
POWERED BY ECS

Next-gen PAI toolset	Managed attribution capabilities	Virtual desktop and mission partner environments

GEOINT FIELD SUPPORT OPERATIONS
Integration and Engineering

ECS' Field Support Operations (FSO) is comprised of highly experienced intelligence professionals, field service representatives (FSRs), field support engineers (FSEs), and software engineers (SWEs). The team ensures AI technologies are seamlessly integrated into your existing workflows, architectures, and legacy technology systems.

The FSO's overriding principle is to leverage user feedback to improve capabilities. The FSO fields support to all six armed services as well as the Department of Homeland Security (DHS) and the Intelligence Community (IC), with permanently assigned staff at eight CONUS and eight OCONUS locations.

Operational Groups

FIELD SERVICE

Our intelligence analysts lead integration efforts and help ensure successful technology implementation among user groups, gathering, parsing, and communicating feedback and providing ongoing change management.

MISSION INTEGRATION

Senior analysts provide a conduit between program management and relevant stakeholders, increasing cross-program integration, the fidelity of ground truth data, and the accessibility of scalable reporting methods, driving rapid solutioning, feedback, and user engagement.

FIELDING AND SUSTAINMENT

Our SWEs and FSEs perform QA/QC of hardware and software releases prior to fielding, perform installations on user networks, troubleshoot integration issues, and develop permanent integration fixes.

MISSION ENGAGEMENT

Senior analysts provide exercise support as a service, streamlining and standardizing the deployment of technology in support of exercises and events across the DoD and IC.

Support Groups

OPERATIONS

Program management and logistical and administrative support for deployed and deployable operational elements, including secure access, ITAR compliance, and foreign travel requirements.

TRAINING

The FSO develops and provides initial and in-service training and certifies field service staff prior to deployment on-site. We also develop and implement training materials and programs for our customers and user groups.

Interested in learning more about our GEOINT solutions?
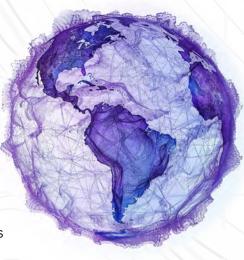**Reach out to solutions@ecstech.com**

GEOINT OPERATIONS
Analysis, Collections, and Foundation

ECS provides remote imaging scientists and data experts to the National Geospatial-Intelligence Agency (NGA), transforming how classified and open-source intelligence is collected, created, and used. We support missions across the Intelligence Community (IC), DoD, National System for Geospatial Intelligence (NSG), and commercial GEOINT enterprises.

ECS advances NGA's maritime GEOINT mission by supporting the OASIS program and Maritime Issues Office. Our teams lead analyst development frameworks, analytic tradecraft, and foundational analysis in structured data programs aligned with NGA and DoD priorities. We also deliver image science across the Analysis Directorate, helping organizations leverage remote sensing systems, adapt AGI strategies, automate imagery analysis, and integrate with existing systems.

Supporting NGA's Foundational GEOINT Mission

ECS provides prime support to the NGA's foundational GEOINT efforts, including:

Geospatial Databases, Cataloging, and Discovery	Digital Mapping	Feature Extraction/ Manipulation	Process Improvement/ Automation
AI/ML R&D and Integration	Automated Geoprocessing	Standard and Automated QA/QC	

See the Unseen

Use advanced remote sensing tools and tradecraft to conduct GEOINT analysis, identifying and classifying phenomena beyond the visible.

Spectral Imagery (MSI/HSI)	EO/Panchromatic	Synthetic Aperture Radar (SAR) Imaging
Full Motion Video (EO/IR)	Horizontal Motion Imagery (EO/IR)	LIDAR Imaging

Faster Insights

Uncover insights from immense data repositories through data processing, mining, and analytics.

Applied Mathematics and Statistical Analysis	Analytical Programming	Data Modeling and Stories

GEOINT CAPABILITIES
Tailored GOTS Solutions

ECS Joint Warfighter Toolbox (JWT) is a lightweight, web-based solution built from multiple validation tools. It can ingest data, invoke AI/ML models to produce detections, and provide many export options, enabling integration into existing workflows. ECS also has the experience and expertise to develop and deliver government off-the-shelf (GOTS) solutions for federal customers.

Proven Validation
Rapidly validate and field Computer Vision (CV) algorithms across multiple GEOINT sensors for Motion & Satellite Imagery, including EO, SAR, IR.
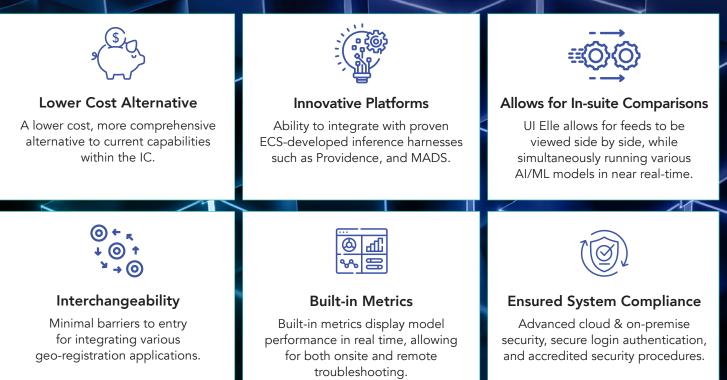
Flexibility
Provide rapidly deployable options for edge capabilities, augmenting available resources in austere environments with a plug-and-play package that is agnostic to your POR systems

Tailored Support
GOTS software tailored to your specific use cases.

Unlock Model Integration and Visualization at a Fraction of the Cost

Lower Cost Alternative
A lower cost, more comprehensive alternative to current capabilities within the IC.

Innovative Platforms
Ability to integrate with proven ECS-developed inference harnesses such as Providence, and MADS.

Allows for In-suite Comparisons
UI Elle allows for feeds to be viewed side by side, while simultaneously running various AI/ML models in near real-time.

Interchangeability
Minimal barriers to entry for integrating various geo-registration applications.

Built-in Metrics
Built-in metrics display model performance in real time, allowing for both onsite and remote troubleshooting.

Ensured System Compliance
Advanced cloud & on-premise security, secure login authentication, and accredited security procedures.

OUR CUSTOMERS

CDAO

The mission doesn't wait. Neither should you.

ECS

ECS is a leading provider of GEOINT, data analytics, and digital transformation solutions to customers across the U.S. public sector, defense, intelligence, and commercial industries. Our experts deliver mission outcomes by developing and deploying new technologies that protect our national security and our warfighters. We maintain partnerships with leading cloud, cybersecurity, and AI/ML providers and hold specialized certifications in their technologies.

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