

OUR AI ADVANTAGE AT A GLANCE

Our breadth providing AI services across the federal government allows us to deeply understand your most pressing challenges, creating insight advantages.

provider of AI services to the Federal Government

Al Service Contracts

Federal Clients

Largest Al the Public

Allen

Booz

Footprint in Sector

Robust Innovation Engine

Our AI talent is differentiated by their unique position at the intersection of mission, commercial technology, and R&D enabling us to provide customizable professional engineering services that propel your missions forward.

Federal Al

Cutting Edge

Years advising the Federal Government

Al Practitioners

Unique Al Services

- 1. Al Ready Organization
- 2. Al Innovation
- 3. Al Engineering
- 4. Data for Al



AI Assemble

Al Stacks

BOOZ ALLEN'S AI OFFERINGS

Venture Investments



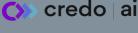
Next Wave R&D

By strategically investing in and partnering with pioneering Al companies, we can quickly integrate customized state-of-the-art capabilities into systems to effectively accomplish federal missions. _atentAl









Venture Capital Fund to accelerate commercial tech deployment for federal clients

We pioneer Al Innovation through R&D, partnerships, and emerging tech investments – propelling government missions today with the AI solutions of tomorrow.

PROFESSIONAL AI SERVICES

Artificial intelligence requires a proven playbook. As the leader in AI for the federal government, our premier professional services enable your organization to design, engineer, and operationalize purpose-built AI solutions.

Al Ready Organization

Prepare your organization for the transformative power of AI through our AI Ready Organization Services. We guide you through every step of the journey from developing a strategic roadmap to talent development and upskilling

Our Services

- Al Strategy
- Al Training
- Responsible & Explainable AI
- Al Governance & Al Risk Management

Al Innovation

Spark your next breakthrough with AI Innovation. Our AI Innovation Services allow us to push the boundaries of AI and solve the mission challenges of today with the technology of tomorrow.

Our Services

- Tech Scouting
- Al Product Development
- Applied R&D
- Quantum

Data for Al

Unlock the immense potential of your Al models with Data for Al. We do the heavy lifting, delivering prepped datasets and data infrastructure ready to supercharge your Al projects.

Our Services

- Al Ready Data
- DataOps for Al
- Data Mesh & Platform

Al Engineering

Harness the true power of AI with our expert AI engineering services. We build custom AI solutions that solve your specific business challenges ensuring scalability, reliability, and ethical considerations.

Our Services

- Model Development (LLM, CV, RLHF)
- MLOps
- Edge AI Solutions

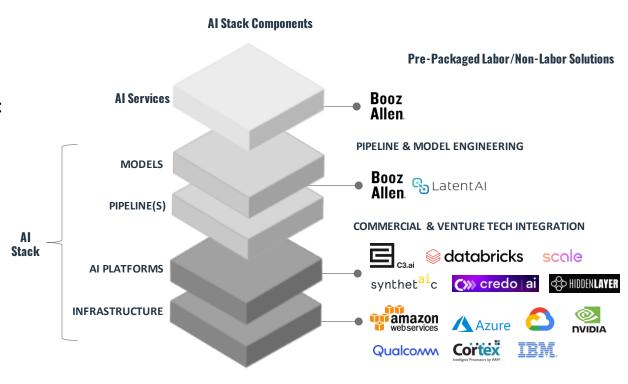
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VISION AI STACK



AI STACKS 101

- Al Stacks are pre-packaged solutions that scale Al specialization, differentiated delivery and economics
- Al Stacks are enhancements to Al services that:
 - ✓ Make it easier to scale specialized Al skillsets
 - ✓ Reduce risk, accelerate delivery and increase quality of AI services
- AI Stacks are critical components of VOLT/WOW and our multi-year business transformation



VISION AI

Booz Allen's Vision AI Stack is a set of integrated software services designed to build, deliver, run, and sustain AI for computer vision.

Tailored to fit your need for the cloud, the powered edge, or the mobile edge, the Vision AI Stack supports the full lifecycle of AI development and offers tools for both data science teams and non-AI engineers.

- + Superior data engineering methods to label, organize, and augment data
- + Accelerated pipelines built with our partners LatentAI® and Synthetaic®
- + Optimization to best-fit computer vision methods on different compute hardware

WHY WE BUILT IT

Getting the right data is too expensive.

Organizations can spend significant time and money collecting, searching, curating, and labeling data.

Traditional AI/ML development is too slow.

Al Training time presents a new problem. Deployed models need to rapidly adapt to changing missions has grown. Al struggles to run outside of the cloud.

The size, weight, and power (SWaP) constraints of mission hardware make running performant Al outside of the enterprise very difficult.

20-80% Reduction in Real Data Need

Booz Allen's Replicant synthetic data suite and integrations with COTS solutions show huge savings in real data needed to build models. This translates to lower cost and reduced time for data collection.

10x Faster Label and Train Time

Synthetaic's RAIC™ Software delivers rapid, semisupervised labeling capability, paired with Booz Allen **rapid training methods** to bring agile model development to the mission.

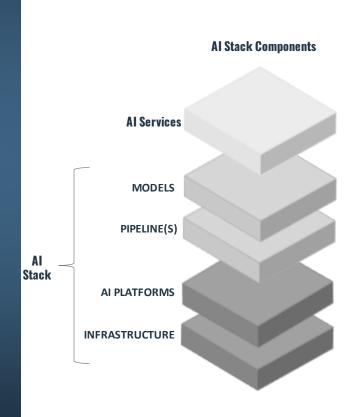
Multi-Spectral Data Fusion

Build, deliver, and re-train a variety of EO/IR, LiDAR, RF, and SAR imagery based classification, detection, and tracking solutions. Extendable to support new data fusion algorithms within our existing pipelines.

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VISION AI STACK



MODELS

PIPELINES

Data Engineering

Software for multi-modal data ingest, search, and automated labeling. Connections to synthetic data services for reduction in amount of real data.



Advanced AI/ML training methods to support rapid development of computer vision models and sustainment due to changing need.

Optimized Inference Engines

Software that provides 1st and 3rd party model runtimes, pre- and postprocessing, and tracking methods for efficient cloud inference and optimized inference for edge devices under SWaP

constraints.



BATCH/STREAM

INGEST

Z₽

RAPID

E X

TESTING &



SYNTHETIC

DATA

synthet^{a1}c

ADVANCED

SEARCH & LABEL

@aws_/\

CLOUD SERVICE

INTEGRATION





PLATFORMS / VENTURE TECH INTEGRATION

INFRASTRUCTURE

DESCRIPTION

Booz Allen's Vision Al Stack is a set of integrated software services to build, deliver, run, and sustain computer vision AI.

THE STACK

MODELS

PIPELINES

PLATFORMS / VENTURE TECH INTEGRATION

INFRASTRUCTURE

GO TO MARKET

Full Stack Menu

Ecosystem-level integrations with connections to CSPs and commercial tech.

Custom Stack

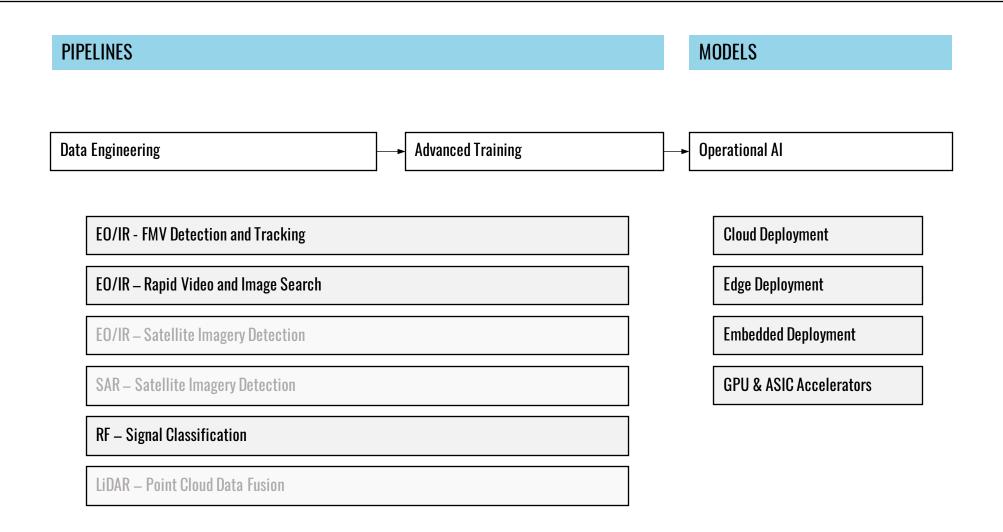
Full integrations of Vision Al Kitin cloud, on-premise, or edge (e.g., Bighorn Al Kit™)

Managed

BAH-hosted services with data, model, or report artifact delivery.



VISION AI STACK PIPELINES

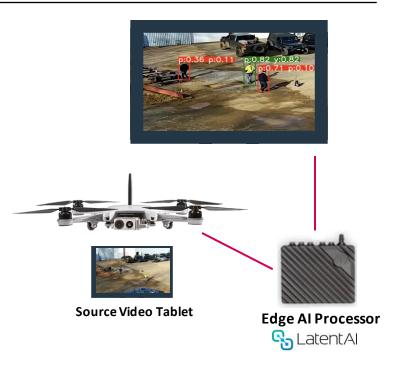


VISION AI STACK EXAMPLES

Build and Run CV models on edge hardware.



Integrated Vision AI runtime software with mission applications.



Demonstrated to Navy, Army, SOF Community

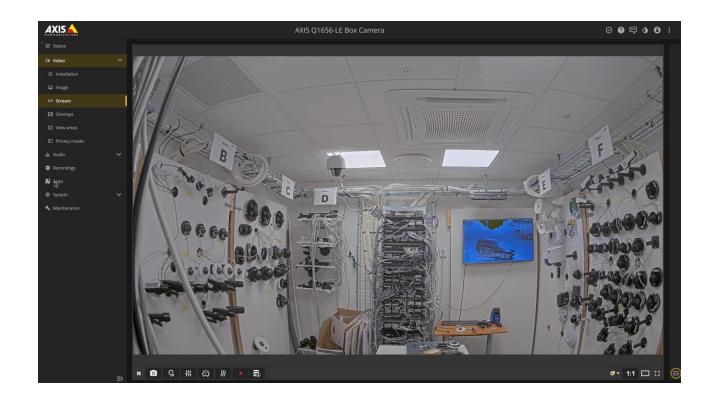
Partnered with DBP - Edge Based Routing

COMPUTER VISION FOR SECURITY

VISION AI STACK

IN ACTION

Build and Run CV models on Axis, eliminating need for GPU hardware.



Integrated Vision AI runtime software with Axis SDK to create "app".



Axis Communications Q1656-LE

Demonstrated to

Department of State DSS

(Jacoby, Buteau)



AI2C | ARTIFICIAL INTELLIGENCE INTEGRATION CENTER

VISION AI STACK

IN ACTION

Summary

Booz Allen partnered with the US Army Al Integration Center (Al2C) to take drone footage from live fire exercises and rapidly curate it for training computer vision Al detection and tracking models. Using Booz Allen's Vision Al Stack, which includes Synthetaic's Rapid Automatic Image Categorization tool (RAIC), we deployed a pre-integrated computer vision pipeline into a CUI-accredited computing environment to process Al2C's drone video.



Developed

a system with an efficient auto- and semi-supervised video labeling service, allowing the team to process more than 16,000 images pulled directly from Al2C video.

Integrated

a pipeline leveraging custom-built machine learning models created from labeled data that will cut down on the number of hours needed for any future work.

Innovated

the development of new machine learning models and labeling tasks, allowing Al2C to quickly implement our strategies to cut down their labeling process by 100s of hours.



LIDAR AI | AIR FORCE CIVIL ENGINEER CENTER

VISION AI STACK

IN ACTION

Summary

The Air Force awarded Booz Allen a \$30M contract to capture global installation space utilization. This space utilization data is used to efficiently plan modifications to installations (new additions, re-allocation of space, etc.). The current workflow utilizes a manual process capturing LiDAR data and then hand drawing the buildings. The CTO-Al Vision team worked with JDA RIES to develop an automated workflow leveraging state-of-the-art vision models to streamline the generation of the building blueprints.



Developed

a novel LiDAR to BIM workflow to process hand-captured LiDAR datasets of all buildings across Air Force installations and leverage Segment Anything and other image-processing algorithms to generate BIM blueprints.

Created

a novel metric evaluation framework to quantify the performance of the LiDAR to BIM workflow that incorporated existing Air Force standards. This framework will be used to build confidence with the client to use the Al Solution.

Streamlined

development of new Vision models by integrating Agile best-practices and automation techniques to rapidly develop new capabilities within weeks instead of the previous monthly timeline.

BIGHORN AI KIT

VISION AI _BIGHORN AI KIT™

Booz Allen's Eighorn Artificial Intelligence (A) Kit[™] delivers advantage in **building and sustaining computer vision A solutions at the edge**—critical for mission success in disconnected environments.



FEATURES

- Auto-Search and Analyze Video On-Kit
- Auto-Label and Rapidly Re-Train Al Models
- Manage Al Models and Deploy to Edge Devices
- Synchronize Data from Edge-to-Cloud

HELIX DEMO





VISION AI _BIGHORN AI KIT™

HOW YOU USE IT

Leverage New Data

Mission Focused
(Task + Hardware Pairing)

Rapid AI/ML Re-Training







5 Optimized Operational Al



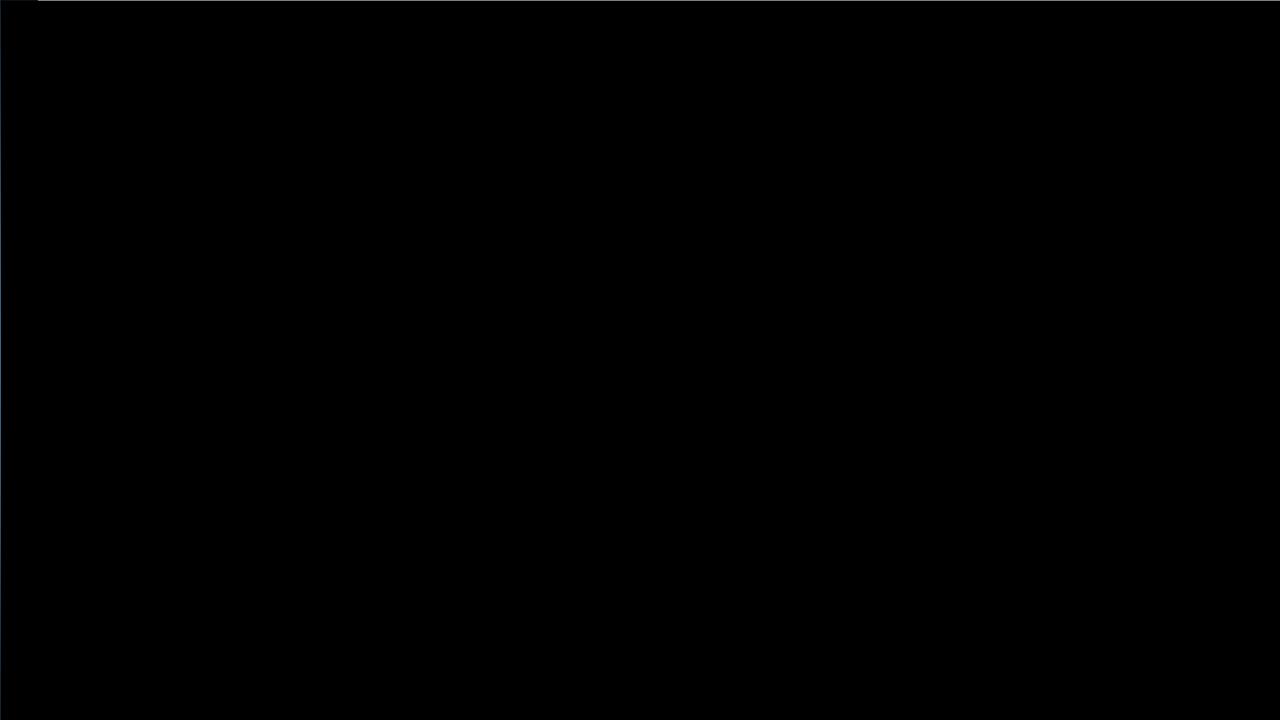
Booz Allen_®





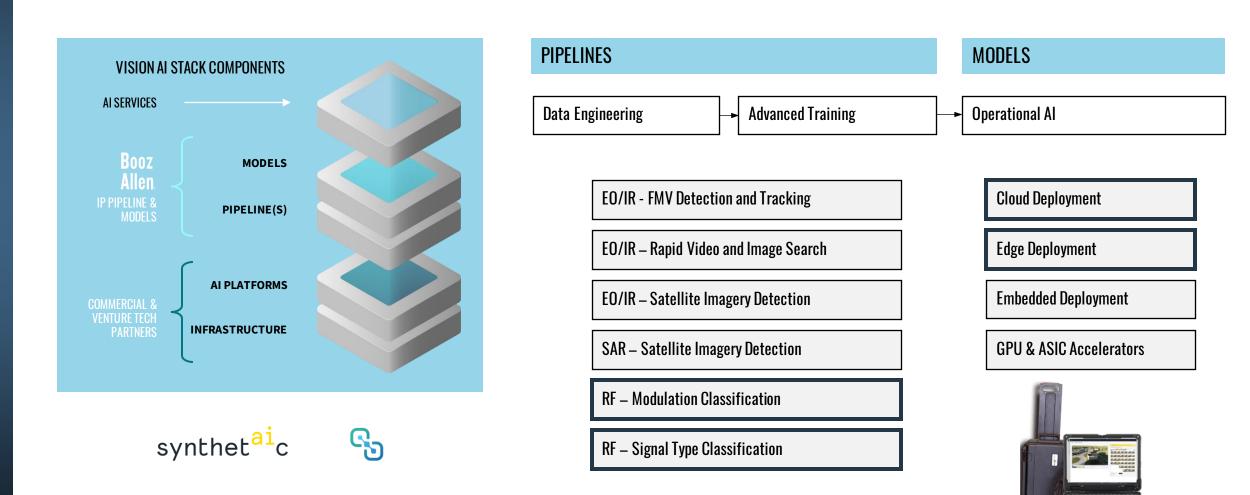
Deployment





BLUERIDGE RF AI KIT

BLUERIDGE AND THE VISION AI STACK



BLUERIDGE USAGE

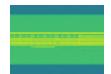
RF AI Kit: Adapt your AI to changes in the MISSION or ENVIRONMENT.

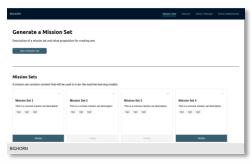
In prototype development for training, optimizing and deploying ML models at the tactical edge. The RF Kit leverages cutting edge computer vision labeling methods to enable search, discovery, and rapid labeling of RF data. By converting signals data to images and integrating Synthetaic RAIC Edge software, analysts can locate signals of interest and rapidly generate training data to update AI models.

Leverage New Data

Mission Focused
(Task + Hardware Pairing)

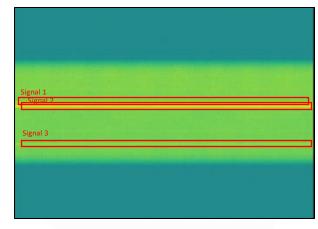
Rapid AI/ML Re-Training







5 Optimized Operational Al



Booz Allen



4 Deployment



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