

Customs, Screening, and Border Security

BigBear.ai

BIGBEAR.AI CAPABILITY OVERVIEW



WHO WE ARE

BigBear.ai builds risk management and threat detection capabilities for customs and border authorities, helping them prioritize cargo, vehicles, and travelers for inspection. Our solutions combine biometric identity verification, predictive analytics, and AI-assisted threat detection to support inspection targeting and traveler processing.

LEADERSHIP AND EXPERTISE

Our platforms are shaped by senior-level executive experience across customs, border, and transportation security. Chief Executive Officer Kevin McAleenan is a former Acting Secretary of the U.S. Department of Homeland Security and former Commissioner of U.S. Customs and Border Protection;

Troy Miller, SVP, DHS and Law Enforcement, is a former Acting Commissioner of U.S. Customs and Border Protection. That operational experience informs system design and keeps it aligned with real-world enforcement and inspection workflows.

HOW WE DEPLOY

Our platforms are built for sensitive operating environments. We support secure on-premise deployment, supporting data sovereignty and operational control, and an open architecture that integrates with existing inspection infrastructure and other security technologies rather than displacing them.

STANDARDS AND ACCREDITATIONS

Our approach to customs risk management follows the WCO SAFE Framework's emphasis on intelligence-led targeting and verifiable chain of custody. Our screening capability is built to open architecture standards and in July 2026 received Dutch national approval against APIDS Standard 1, following independent testing by TNO. Our generative AI platform holds FedRAMP High authorization and deploys up to DoD Impact Level 6 in the cloud and up to Top Secret/SCI on air-gapped hardware; in July 2026 it was expanded for U.S. Department of War mission teams.

CORE CAPABILITY AREAS

Cargo & Baggage Screening

AI analysis of non-intrusive inspection (NII) X-ray and CT imagery, correlated against shipment documentation to surface discrepancies between declared and actual contents and prioritize inspection effort.

Traveler Vetting & Biometrics

Facial recognition and biometric matching for identity verification, and processing that automates manual document and identity checks at ports of entry.

Trade Compliance & Cargo Visibility

In partnership with International Shipping Compliance, S.A., chain-of-custody tracking with biometric validation of drivers, vehicles, and containers at every handoff, and anomaly detection across transborder corridors.

Operations Modeling & Capacity Building

Simulation and digital twins to size and design new capacity, not only tune existing operations — modeling process flow, staffing, and facility layout against future growth, and leaving authorities with an enduring planning capability rather than a one-off study.

Secure Generative AI

Authorized, model-agnostic generative AI for analysis and reporting across cloud, on-premise, and edge, plus an air-gapped appliance for classified and disconnected sites.

Advisory Services

Customs advisory and border security analysis drawing on senior operational and policy expertise across customs, transportation, and homeland security.

Solutions We Bring to the Customs and Border Mission.

CARGO AND BAGGAGE INSPECTION

CargoSeer

Risk Analysis and Targeting

Combines non-intrusive inspection (NII) X-ray imagery with import-export documents and structured trade data in a single workflow, using computer vision to help identify high-risk shipments.

Pangiam® Threat Detection

Automated Prohibited Item Detection

Analyzes 3D CT imagery in near real time and flags potential prohibited items for screening officers. Nationally approved in the Netherlands against APIDS Standard 1.



TRADE COMPLIANCE AND CARGO VISIBILITY

International Shipping Compliance

Chain of Custody Across Shipping Corridors

This co-developed ISC solution offers a security layer over global logistics: real-time shipment tracking, biometric validation linking drivers and vehicles to containers and seals at every handoff, and anomaly detection across corridors.



TRAVELER IDENTITY, VETTING AND BIOMETRICS

Advance Passenger Information Screening

Pre-Arrival Vetting and Authorization

Adjudicates advance passenger information so risk and authorization can be assessed before arrival, and automates manual document and identity checks on arrival.

veriScan®

Traveler and Operator Verification

Captures a photograph and transmits it for biometric verification against a gallery, with mask and duplicate-match detection. Deployed at 15+ international airports and 60+ major airlines.

Trueface™

Biometric Matching Engine

One-to-one and one-to-many matching against a temporary gallery, designed for poor lighting, off angles, and partial obstruction.



PLANNING, ANALYSIS AND DECISION SUPPORT

ProModel.ai

Capacity Building and Throughput Optimization

A digital twin and discrete-event simulation engine for testing decisions before implementation — facility layout, capacity, staffing, and arrival and departure scheduling.

BigBear.ai Generative AI Platform

Secure Generative AI for Analysis and Reporting

A model-agnostic, multimodal platform for chat, retrieval-augmented generation over your documents, and agentic workflows. Expanded in July 2026 for U.S. Department of War teams. For disconnected sites, a sealed appliance runs it locally as a separate accreditation boundary.

Consulting Services

Customs Advisory and Border Security Analysis

Expertise across customs and transportation security, applied to security, facilitation, and operational challenges.

