

Announcing Beag Labs Compliance RLMs: Small language models (SLMs) for NIST classification and beyond. [Each account available...](#)

MODELSCAPABILITIES

models.
research.
deployed anywhere.

id models to your infrastructure, train your own
a custom model for your use case using SOTA
of thousands in compute spend and get your
or than ever before.

TALK TO US

 Beag Labs



Beag Labs — Custom AI. Your Data. Your ...

Custom AI services — we build and deploy
domain-specific classification and extraction...



Beag Labs

AI MODERNIZATION PLATFORM

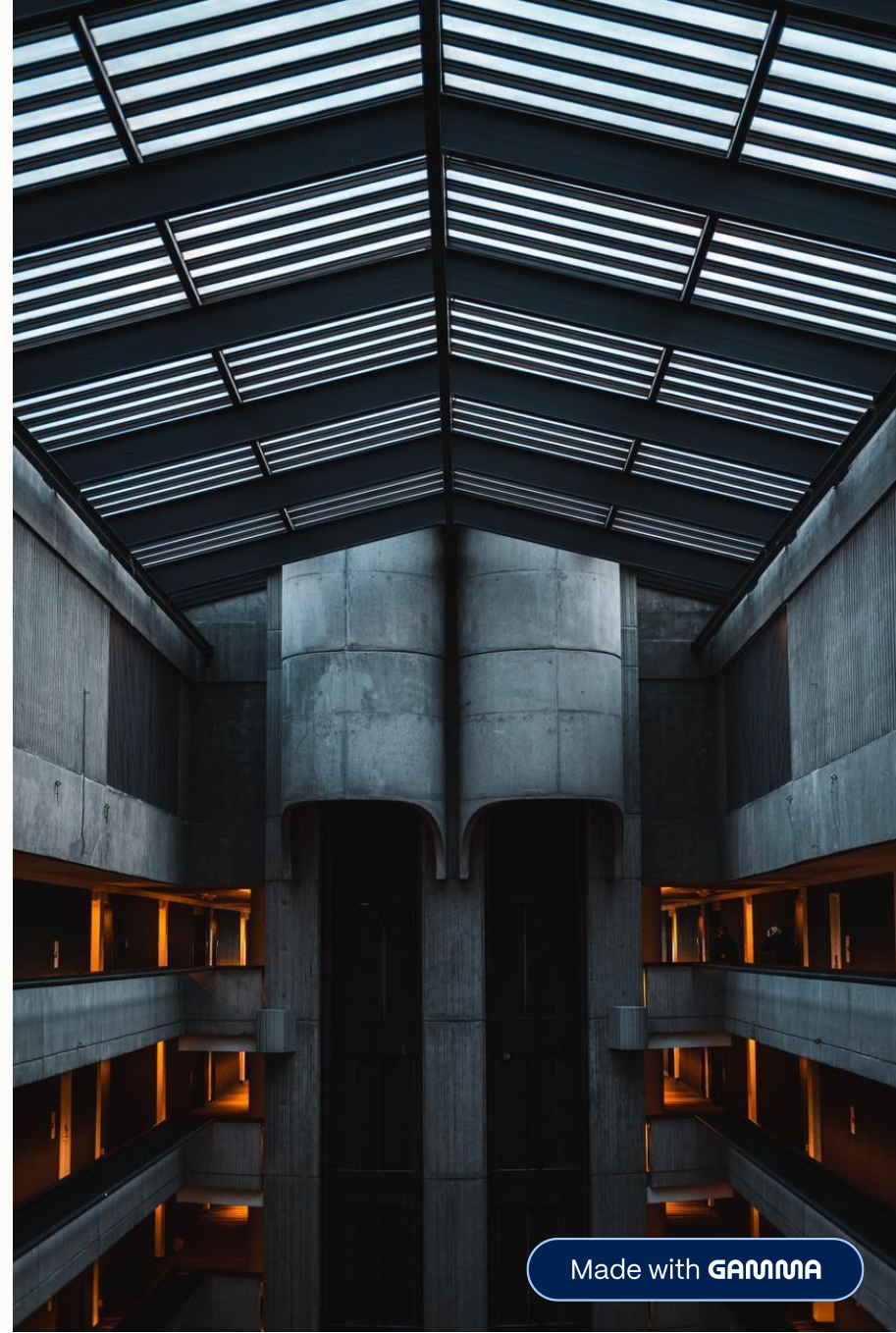
DEFENSE & GOVERNMENT SOLUTIONS

A secure AI modernization company helping government and regulated organizations transform legacy systems into intelligent, interoperable, machine-readable environments – without requiring external AI API dependencies.

The logo for the Small Business Administration (SBA), featuring the letters 'SBA' in a stylized font with a blue and red outline.

The logo for HUBZone CERTIFIED, featuring the text 'HUBZone' in a bold, sans-serif font with a yellow and blue gradient, and 'CERTIFIED' in a smaller, blue, sans-serif font below it.

Made with GAMMA

A photograph of a modern building interior, featuring a large, dark, geometric structure with a glass roof, creating a dramatic, high-contrast scene.

Modernize Existing Systems Without Replacing Them

Modern government and defense organizations rely on decades of mission-critical software, databases, industrial systems, documents, and operational workflows. These systems cannot be replaced due to cost, mission risk, certification requirements, or operational dependencies. Beag Labs provides an AI modernization layer that enhances existing infrastructure through secure, locally deployable small language models and intelligent software agents – without disrupting the systems operators depend on.

No External AI APIs

All AI inference runs inside your environment. No data leaves your network. No third-party model dependencies.

Customer-Controlled Models

Your organization owns the AI stack. Full control over model lifecycle, updates, and data governance.

Flexible Deployment

On-premises, private cloud, and air-gapped environments supported. IL4 and IL6 deployment-ready.

Reduced Operational Cost

Predictable AI costs without usage-based pricing. Faster modernization of legacy applications at lower total cost of ownership.



Core Message: Beag Labs enables AI capability without requiring replacement of existing mission systems.

Legacy Systems Cannot Be Replaced Easily

Government organizations operate complex, aging infrastructure that was never designed for AI integration. Fragmented data, incomplete documentation, and strict security requirements make modernization efforts slow, risky, and expensive. Replacing these systems creates operational risk that most organizations cannot accept.

Systems in Operation

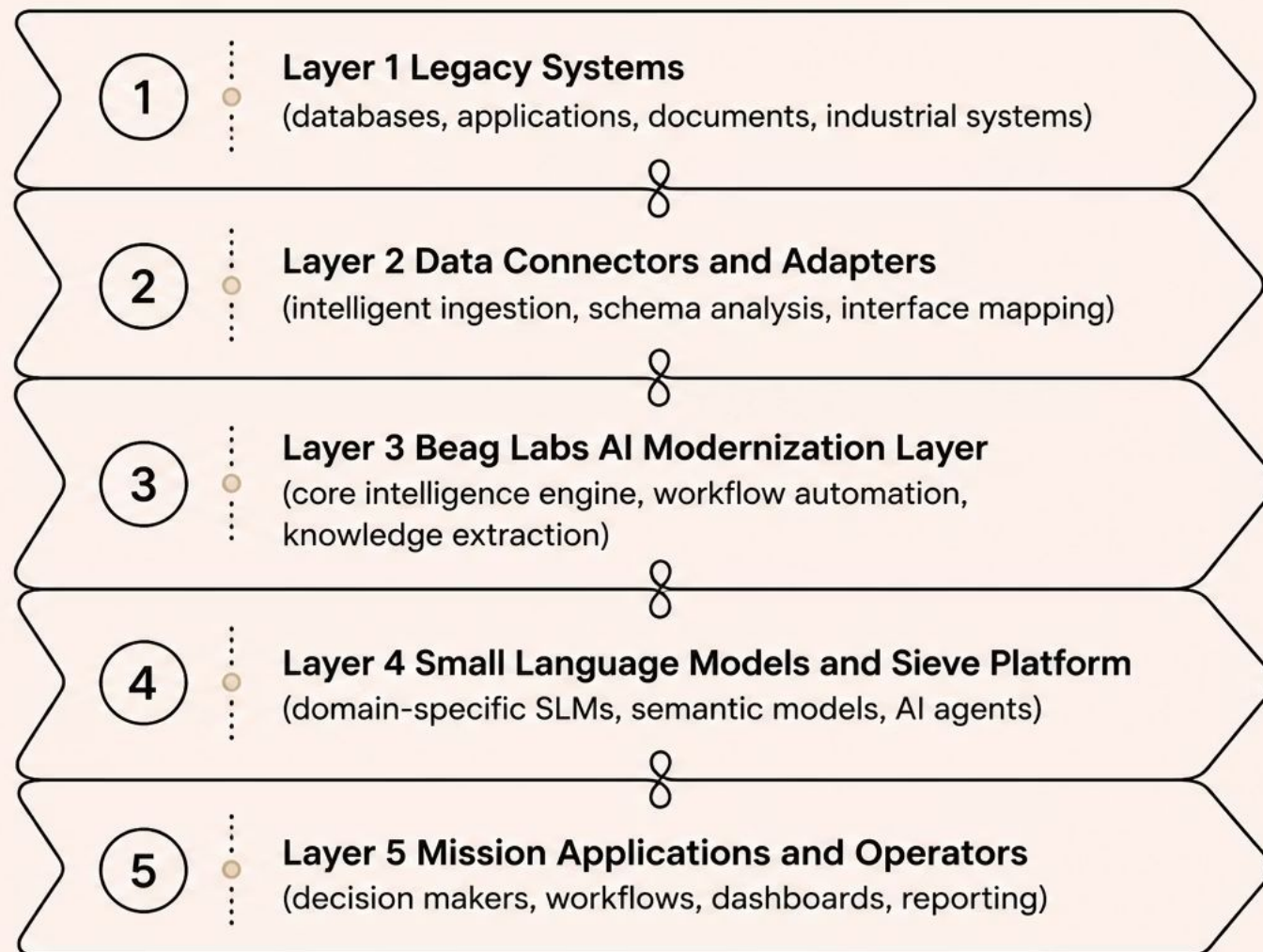
- Legacy databases and aging applications
- Manufacturing and industrial systems
- Healthcare and administrative platforms
- Logistics and sustainment systems
- Document-heavy operational workflows

Core Challenges

- Systems not designed for AI integration
- Data is fragmented and undocumented
- External AI services may be prohibited
- Modernization efforts take years to complete
- Replacement creates unacceptable operational risk
- Certification and compliance barriers

The Beag Labs AI Modernization Layer

The Beag Labs modernization layer provides intelligence between existing systems and new AI capabilities. It enables understanding of legacy data, automated workflows, knowledge extraction, AI-assisted operations, decision support, and system interoperability – all without requiring changes to the underlying infrastructure.



This layered architecture ensures that organizations can introduce AI capability incrementally, starting with the highest-value data and workflows, while maintaining full operational continuity across all mission systems.

Sieve: Intelligent Integration Framework

Sieve is Beag Labs' intelligent integration and modernization framework. It enables organizations to transform undocumented, disconnected, and aging systems into AI-accessible environments. Sieve serves as the operational core of the Beag Labs platform ecosystem, providing the connective intelligence between legacy infrastructure and modern AI capabilities.



Intelligent Data Understanding

Ingest technical documentation, analyze schemas, understand interfaces, and extract operational knowledge from legacy systems automatically.



Secure AI Workflows

Deploy local AI agents, automate knowledge workflows, assist operators, and provide decision support within controlled environments.



AI-Powered Integration

Generate adapters, normalize data formats, map system relationships, and create semantic models that make legacy data machine-readable.



Enterprise Deployment

Private infrastructure, controlled environments, no external API requirement, and a fully customer-owned AI stack.

Small Language Model Strategy

Beag Labs focuses on small language models (SLMs) because they are purpose-built for secure, mission-focused deployment. Unlike large external AI APIs, SLMs run entirely within the customer's environment, providing domain-specific intelligence with full data sovereignty, predictable costs, and edge compatibility.

Large External AI APIs

- Data leaves the environment for processing
- Usage-based pricing creates unpredictable costs
- Vendor dependency and lock-in
- Limited customization for mission domains
- Prohibited in classified or air-gapped settings
- No control over model updates or lifecycle

Beag Labs SLM Approach

- Runs entirely inside customer environment
- Customer-controlled data and inference
- Domain-specific intelligence and fine-tuning
- Predictable, fixed operational costs
- Compatible with IL4, IL5, and IL6 environments
- Faster inference with lower infrastructure requirements

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External API Calls

All inference stays on-premises

100%

Data Sovereignty

Customer retains full ownership

3x

Faster Deployment

Compared to full system replacement

Defense and Government Deployment

Beag Labs solutions are engineered for the most demanding security and compliance requirements in government and defense. Our deployment approach is built around the principle that data must never leave authorized boundaries, and that model lifecycle must be fully controlled by the customer organization.

IL4 Environments

Supported for controlled unclassified information (CUI) with full on-premises deployment and no external connectivity requirements.

IL5 Environments

Deployment-ready for sensitive but unclassified workloads with hardened infrastructure configurations and secure update processes.

IL6 Environments

Architected for classified and disconnected environments where external API dependency is strictly prohibited.

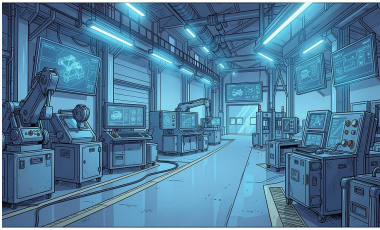
Air-Gapped Systems

Fully operational in disconnected environments with no internet connectivity required for model inference or workflow execution.

Security Principles: No external API dependency · Customer-controlled inference · Data remains within authorized boundaries · Controlled model lifecycle · Secure update processes

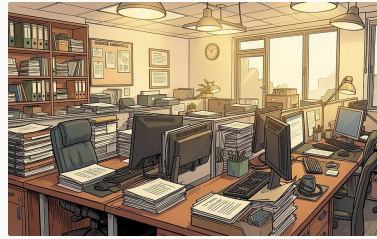
Government Mission Applications

Beag Labs solutions are applicable across the full spectrum of government and defense operations. The following examples illustrate how the AI modernization layer and Sieve platform deliver measurable value in high-priority mission areas.



Defense Industrial Base Modernization

AI modernization layer connecting MES systems, manufacturing equipment, engineering documentation, and production workflows. Enables legacy equipment modernization.



Healthcare and Administrative Modernization

AI agents assisting document workflows, form processing, data extraction, and operational analytics. Reduces administrative burden while maintaining compliance with healthcare and personnel data requirements.



Logistics and Sustainment

AI understanding of maintenance records, technical manuals, supply documentation, and historical data. Enables predictive sustainment, faster decision-making, and improved readiness reporting across logistics platforms.

Why Beag Labs

Beag Labs occupies a unique position in the AI modernization landscape. As a HUBZone-certified small business and non-traditional defense supplier, we combine the agility of an innovative technology company with the rigor required for government and defense deployment. Our solutions are secure-by-design, purpose-built for regulated environments, and engineered to reduce long-term AI operating costs.



Secure-by-Design AI

Architecture built around data sovereignty and compliance from the ground up.



SLM Specialization

Focused expertise in small language model development and optimization.



No External API Dependency

All AI capability runs within your authorized infrastructure.



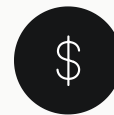
Legacy Modernization Expertise

Proven approach to connecting and enhancing aging systems.



Government-Ready Deployment

IL4, IL5, and IL6 deployment architectures available.



Reduced AI Operating Costs

Predictable pricing without usage-based API fees.

Transform Legacy Environments Into Modern, AI-Enabled Systems

Beag Labs enables government organizations to adopt artificial intelligence while preserving mission-critical investments. Through secure small language models, intelligent integration technology, and platforms such as Sieve, Beag Labs transforms legacy environments into modern, AI-enabled systems without requiring replacement or external data exposure.

Secure No external AI API dependencies. Full data sovereignty.	Deployable On-premises, private cloud, and air-gapped environments.
Interoperable Connects to existing systems without replacement.	Mission-Ready IL4, IL5, and IL6 deployment architectures.

Beag Labs is available for CSO submissions, SBIR/STTR engagements, prototype projects, and prime contractor teaming discussions. We welcome the opportunity to demonstrate how our AI modernization platform can address your organization's specific legacy system challenges.

Learn more at www.beaglabs.com

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CAGE:22QH1

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