

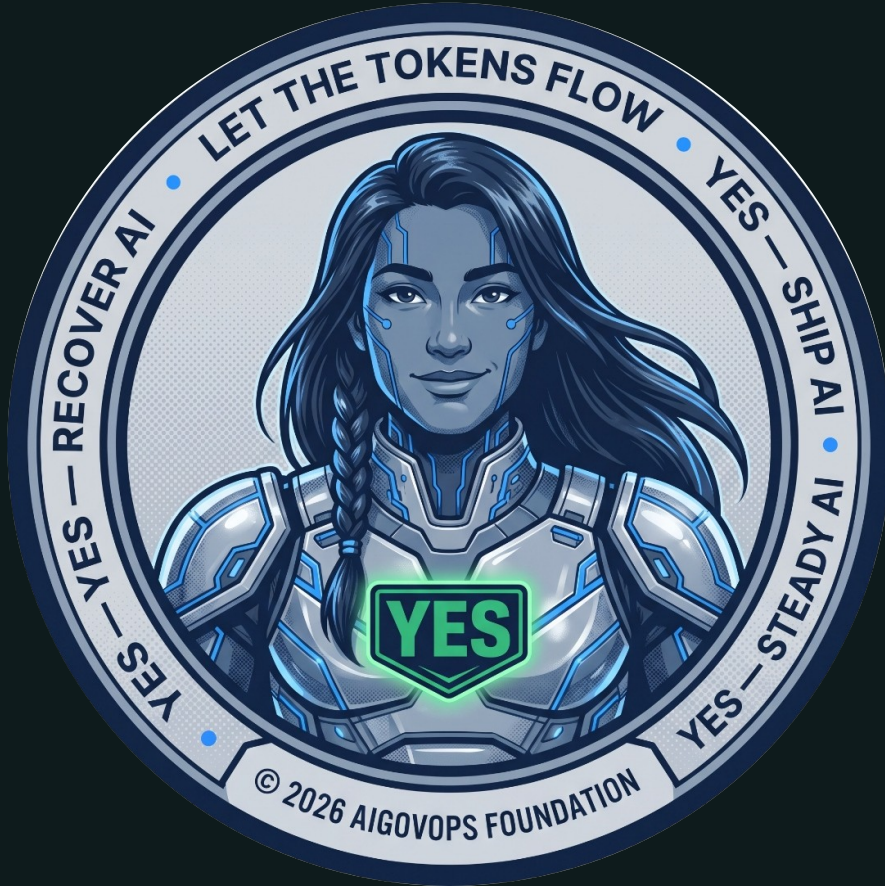
A I G O V O P S F O U N D A T I O N · A P A C H E - 2 . 0

# AlGovOps Beacon

Verifiable AI governance.

For every model. Every framework. Every day.

YES-Ship AI · YES-Steady AI · YES-Recover AI



Bob Rapp & Ken Johnston · AIGovOps Foundation · 2026

## THE PROBLEM

# 100 documented AI failures. Billions in damage. One missing receipt.

**\$48B+**

Documented AI-related losses across the 100-case proof set (Terra/Luna, FTX, dieselgate, Cambridge Analytica).

**55 of 100**

Would have been caught pre-deployment by a YES-Ship checklist receipt.

**0**

Frameworks today demand a cryptographically verifiable bundle. Beacon does.

## Every AI program hits one of these. Beacon answers each.

### Shipping the wrong model

*Zillow \$304M write-down · Apple Card bias · Amazon recruiter · UK A-levels · COMPAS*

YES-Ship AI — pre-deployment checklist receipt records risk review, fairness tests, and human sign-off.

### No visibility once it ships

*Samsung source-code leak · Air Canada hallucinated refund · Microsoft Bing Sydney · Tessa NEDA chatbot*

YES-Steady AI — three passive beacons watch the network and emit signed receipts hourly.

### Can't prove what happened

*Robodebt · Optum bias · Detroit wrongful arrests · NYT vs OpenAI · MOVEit ransomware*

YES-Recover AI — every claim is an Ed25519-signed JCS receipt the auditor verifies themselves.

# Policy-as-code.

## Every claim is a signed receipt anyone can re-verify.

### 1. POLICY

#### 23 audit frameworks

NIST AI RMF, EU AI Act, ISO/IEC 42001, HIPAA, GDPR, Colorado AI Act, Korea AI Basic Act + 16 more. Each is a YAML and XML file in the repo.

### 2. EVIDENCE

#### Three passive beacons

Model beacon watches egress to AI hosts. Prompt beacon counts traffic from CASB/SIEM. Artifact beacon detects C2PA / AI-generation signatures.

### 3. RECEIPT

#### Ed25519 + JCS NDJSON

Every receipt is canonicalized (RFC 8785), signed, and appended to an NDJSON stream. No payloads stored. Metadata only.

### 4. SCORE

#### One risk index

Receipts roll up into a per-framework score and an org-wide AI Risk Index (0-100). Reproducible from the receipts alone.

# Three beacons. One signed evidence stream.

*Privacy by default. No payloads stored. Metadata only.*

## MODEL BEACON

### Discovers every model in use

Watches egress to OpenAI, Anthropic, Bedrock, Vertex, Azure OpenAI, Cohere, Mistral, Groq, Perplexity, DeepSeek. Resolves host to process. One signed receipt per (host, process).

N O   P A Y L O A D S

## PROMPT BEACON

### Counts traffic, not content

Log-tail mode reads existing CASB / SIEM exports (Splunk, Sentinel). Extracts model name, token count, route. Optional TLS-proxy mode is opt-in and clearly labeled.

M E T A D A T A   O N L Y

## ARTIFACT BEACON

### Tracks AI-generated outputs

Watches S3, SharePoint, Confluence. Detects C2PA provenance markers and AI-generation signatures. Tags every artifact with a receipt that follows it through the org.

P R O V E N A N C E

# One number your board will actually understand.

Every receipt rolls into a weighted score per framework. Frameworks roll into one AI Risk Index from 0 to 100. Reproducible from the receipts alone.

55.4

SAMPLE AI RISK INDEX

From 200 signed sample receipts across 17 frameworks

FRAMEWORK	SCORE	STATUS
ISO/IEC 23894	80.3	Strong
SOC 2 TSC	69.9	Strong
ISO/IEC 42001	65.8	Watch
NIST AI RMF	58.1	Watch
EU AI Act	42.6	Watch
NYC LL 144	25.9	Gap
India DPDP	9.4	Gap

## 23 audit frameworks. Global. In force and in draft.

Each framework ships as a YAML, an XML, and an entry in the JSON index — versioned, signed, mirrored.

### IN FORCE — 6

EU AI Act  
HIPAA Security Rule  
GDPR Art. 22 + 35  
NYC LL 144  
China Interim GenAI  
India DPDP

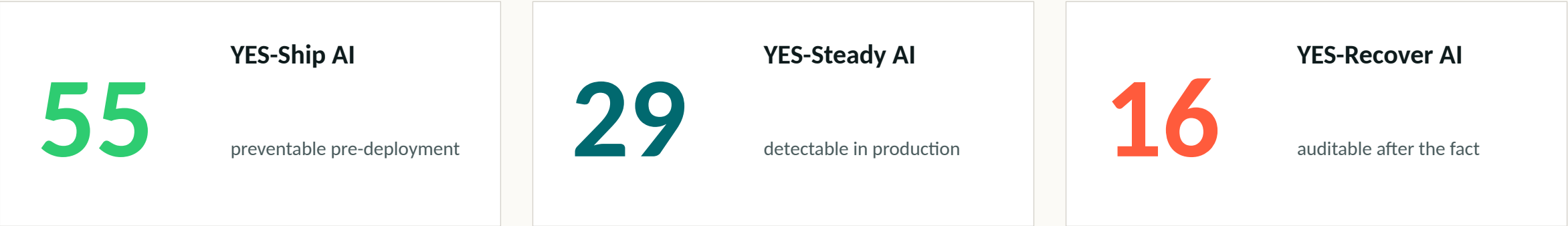
### VOLUNTARY — 8

NIST AI RMF  
ISO/IEC 42001  
ISO/IEC 23894  
SOC 2 TSC  
OECD AI Principles  
Singapore Model AI v2  
Australia AI Ethics  
IEEE 7000

### DRAFT / PROPOSED — 9

Colorado SB24-205  
Korea AI Basic Act  
Brazil PL 2338  
UN AI Resolution  
UK AI White Paper  
Canada AIDA  
California SB 53  
Texas TRAIGA  
AI Bill of Rights

100 real AI failures. Each mapped to a receipt that would have caught it.



SELECTED CASES

Terra/Luna stablecoin collapse	~\$40B	YES-Ship	Volkswagen dieselgate software	\$10B+	YES-Ship
FTX collapse — algorithmic	\$8B+	YES-Ship	Cambridge Analytica / Facebook	\$5B FTC fine	YES-Recover
Babylon Health NHS collapse	\$4.2B value	YES-Recover	Wells Fargo fake accounts	\$3B settlement	YES-Steady
Hong Kong deepfake wire fraud	\$25M transfer	YES-Steady	Zillow Offers shutdown	\$304M write-down	YES-Ship

Source: [failures dataset](#), [Reuters](#), [SEC filings](#), [FTC orders](#)



# Auditors want evidence, not policy PDFs.

The next 24 months will produce 10,000 audits, 6 new national laws, and a thousand vendor "AI trust centers". One thing matters: can you hand the auditor a bundle they verify themselves?

## Open & verifiable

Apache-2.0. No SaaS lock-in. Sign with your own Ed25519 key. JCS canonicalization (RFC 8785). Anyone can re-verify a bundle with a six-line Python script.

## Manual-first

The CLI wizard works on day one. Beacons are optional. You can attest with humans-in-the-loop while you wire up automation behind it.

## Discovers shadow AI

Three passive collectors find the models you don't know are running. Most enterprises have 4-7× the AI footprint they think they do.

## Translates to any law

23 frameworks, global. New ones land as YAML/XML pull requests. Translations ship for ES + AR with a script to add more.

# Let the tokens flow.

Hand the auditor a bundle they can verify themselves.

## OUR ASK

### Pilot partners

Run Beacon against a single AI system for 30 days. We co-write the audit report.

### Framework authors

Add the YAML for your jurisdiction. We mirror it into the global registry.

### Foundation members

Join the AIGovOps Foundation. Help govern the receipt schema and scoring weights.

## CONTACT

**Bob Rapp** [bob.rapp@aigovops.community](mailto:bob.rapp@aigovops.community) · **Ken Johnston** [ken.johnston@aigovops.community](mailto:ken.johnston@aigovops.community)

[aigovopsfoundation.org](https://aigovopsfoundation.org) · [github.com /bobrapp/aigovops-beacon](https://github.com/bobrapp/aigovops-beacon)