

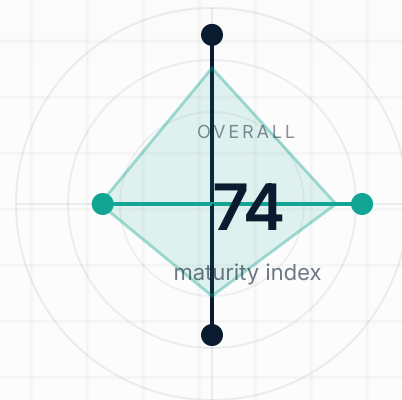


OFFICIAL PUBLICATION | WHITEPAPER SERIES

AIBOM and Control Evidence for Regulated AI

How to turn models, agents, prompts, datasets, and workflows into an operational record teams can govern.

PQC READINESS SYSTEM



INVENTORY	<div style="width: 92%;"><div style="width: 92%;"></div></div>	92
RISK SCORING	<div style="width: 78%;"><div style="width: 78%;"></div></div>	78
SERVICE MAPPING	<div style="width: 64%;"><div style="width: 64%;"></div></div>	64
HYBRID ROLLOUT	<div style="width: 48%;"><div style="width: 48%;"></div></div>	48

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EDITORIAL BRIEF

Executive summary

AUDIENCE

AI Governance Lead, Risk Team, Security Architect, Audit / Assurance

FORMAT

Quanterios Whitepaper

LENGTH

15 pages

AIBOMs are often described too narrowly as model inventories. In practice, regulated AI teams need a richer operating record that connects models, agents, prompts, datasets, tools, approvals, and policy enforcement into one visible estate.

This paper explains what belongs in a defensible AIBOM and how to translate that record into usable assurance evidence rather than static documentation.

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ISSUE MAP

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WHY THIS PAPER MATTERS

Quanterios whitepapers are designed to be carried into investor meetings, buyer reviews, partner conversations, and internal strategy sessions as serious editorial assets, not marketing one-pagers.

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SECTION 01

What an AIBOM should actually contain

A serious AIBOM goes beyond model names and versions. It should show relationships: which prompts drive which actions, what datasets support which workflows, which tools are reachable, and which approvals exist between reasoning and execution.

Without those relationships, teams can inventory components without understanding operational risk.

WHY URGENCY IS COMPOUNDING



Research

Planning

Procurement

Modernization

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SECTION 02

Lifecycle records are necessary but incomplete

Training lineage, validation reports, owners, and deployment status all matter. But regulated AI programs increasingly need to explain live system behavior as well. A frozen lifecycle document does not explain whether runtime controls were present when an event occurred.

That is why the control record has to bridge lifecycle evidence and runtime evidence.

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OPERATING MODEL

OPERATING CYCLE

Discover to evidence



- 01 Discover cryptography everywhere
- 02 Score posture and exposure
- 03 Prioritize by service consequence
- 04 Roll out hybrid migration waves
- 05 Prove progress with live evidence

SECTION 03

How evidence becomes reviewable

Evidence becomes useful when it can answer reviewer questions directly: what system is in scope, what its risk path looks like, what controls are active, what overrides exist, and which teams own remediation.

The more fragmented the source systems, the harder this becomes. Teams need one place where oversight can see the same truth engineers and security teams see.

WHERE MIGRATIONS STALL

Late discovery

Hidden certificates, appliances, and supplier code

Fragmented ownership

Security, delivery, infra, and compliance see different records

No service map

Findings are not tied to consequence or change windows

No exception logic

Temporary tolerances cannot be reviewed or expired cleanly

PRACTICAL IMPLICATIONS

- Model and agent inventories should connect to real ownership and business process context.
- Prompt and tool relationships should be visible, not implied.

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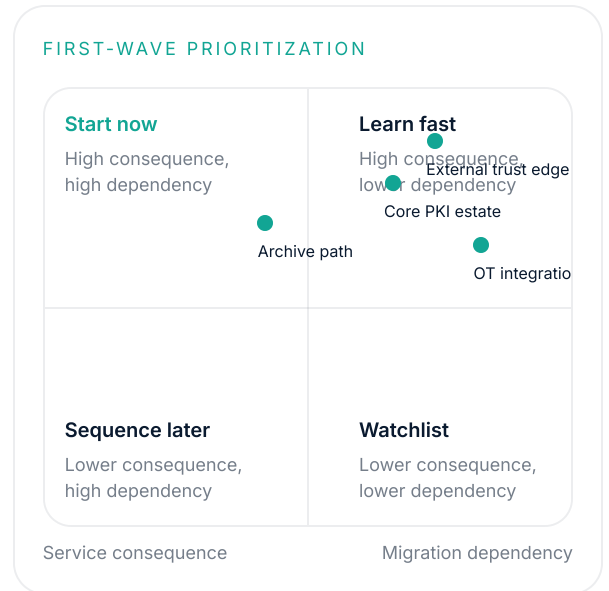
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SECTION 04

The operating record regulators and auditors trust



Reviewers trust systems that show continuity. They want to see not only what teams claim they do, but what the system shows they did over time. That continuity is the difference between governance language and governance proof.

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CLOSING SPREAD

From insight to action

KEY TAKEAWAYS

- AIBOMs must include relationships, control points, and ownership, not just component lists.
- Strong evidence bridges lifecycle documentation and runtime behavior.
- The best AI assurance programs share one operating record across engineering, security, and review teams.

WHAT STRONG TEAMS DO NEXT

- NOW**
 - **Make the estate visible**
Create one living control record across assets, services, owners, and deadlines.
- NEXT**
 - **Run a first-wave queue**
Move the highest-consequence services into a controlled hybrid rollout plan.
- THEN**
 - **Prove progress**
Review migration status and exceptions as an operating program, not a slide deck.

NEXT STEP

Want an AIBOM that becomes evidence, not shelfware?

Quanterios can help map your model and agent estate into a live assurance record.

[Request AI inventory review](#)

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