



REFERENCE ARCHITECTURE · 2026

# The Governed AI PMO

How leading PMOs deploy AI inside enterprise policy — with autonomy tiers, approval ladders, and audit by default.

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## CONTENTS

# What's inside

<b>01</b>	Executive Summary	<b>3</b>
<b>02</b>	Why Governed AI, Why Now	<b>4</b>
<b>03</b>	The Reference Architecture	<b>5</b>
<b>04</b>	Autonomy Tiers and Approval Ladders	<b>7</b>
<b>05</b>	Audit by Default	<b>8</b>
<b>06</b>	Implementation Roadmap	<b>9</b>
<b>07</b>	Measuring Outcomes	<b>10</b>
<b>08</b>	Closing Notes & Next Steps	<b>11</b>

## 01 · EXECUTIVE SUMMARY

# AI belongs in the PMO — under governance

Project management offices are under pressure to do more with less while their portfolios grow more complex. Generative AI offers a credible path to relief: faster status, sharper narratives, and tighter forecasts. Yet the same capabilities that compress cycle time also introduce new risks — hallucinated commitments, opaque decisions, and uncontrolled access to sensitive data.

This whitepaper presents a reference architecture for deploying AI inside the PMO without trading away governance. It defines five autonomy tiers, an approval ladder that scales with risk, and an audit-by-default posture that lets executives, auditors, and regulators trace every consequential action back to a person, a policy, and a prompt.

*The goal is not autonomous projects. The goal is governed acceleration: humans set the envelope, AI moves the work inside it, and the system proves what happened.*

## What you'll take away

- A vocabulary for autonomy that maps cleanly to your existing RACI and DOA.
- An approval ladder that scales with blast-radius — not with effort.
- Concrete patterns for audit logs, policy guardrails, and human override.
- A 90-day rollout plan that proves value before it expands scope.

## 02 · CONTEXT

# Why governed AI, why now

PMOs sit at a structural choke-point. They consume status from delivery teams, reconcile it against baselines, and broadcast outcomes to executives, customers, and auditors. Every week of that cycle is dominated by translation work — turning Jira tickets into earned-value metrics, turning metrics into narratives, and turning narratives into decisions.

Large language models are unusually well-suited to translation. But translation in the PMO is consequential: a hallucinated forecast can mis-direct millions, a leaked baseline can embarrass a customer, and an unattributed decision can fail an audit. Ungoverned AI in this environment is not faster — it is faster *and* more expensive.

## Three pressures converging in 2026

- **Regulatory:** EU AI Act high-risk obligations now bind enterprise deployments and demand documented oversight.
- **Commercial:** Customers increasingly require attestations about AI use in delivery and reporting.
- **Operational:** Portfolio complexity has outgrown the spreadsheet PMO; manual roll-up no longer scales.

*If your PMO cannot answer 'who approved this, against which policy, on what evidence' for an AI-generated artifact, you do not yet have a governed AI PMO.*

## 03 · ARCHITECTURE

# The reference architecture

The reference architecture has four planes. Each plane has a clear owner and a clear interface to the planes around it. The separation matters: it is what makes the system auditable and what allows individual planes to evolve without re-litigating governance.

## 1. Evidence plane

Source-of-truth integrations — work trackers, repositories, finance systems, document stores — feed a versioned evidence layer. Nothing the AI says is admissible unless it is anchored to an evidence record with a stable identifier and timestamp.

## 2. Reasoning plane

The reasoning plane hosts the models, the retrieval, and the tool-use. It is sandboxed: it can read evidence, it can draft artifacts, and it can request actions — but it cannot execute side-effects directly. Every proposed action carries a reference to the evidence and the policy that justifies it.

## 3. Policy plane

The policy plane encodes the rules: who can approve what, at which dollar threshold, with which evidence, under which autonomy tier. Policies are versioned, signed, and machine-readable so that every decision can be replayed against the policy that was in force at the time.

## 4. Action plane

The action plane is the only plane that touches the outside world. It receives approved actions from the reasoning plane, enforces policy from the policy plane, and writes a tamper-evident record into the audit log before and after each side-effect.

03 · ARCHITECTURE (CONT.)

# How the planes interact



Figure 1 — The four planes form a one-way data flow with explicit handoffs. No plane can skip the next.

The one-way flow is deliberate. It prevents the reasoning plane from reaching past policy and acting directly on systems-of-record. It also makes failure modes diagnosable: if a bad outcome occurs, the audit trail localizes blame to the plane that produced it.

*If you remember one thing: the reasoning plane proposes, the policy plane authorizes, the action plane executes — and the evidence plane is the only thing the reasoning plane is allowed to believe.*

## 04 · OPERATING MODEL

# Autonomy tiers and approval ladders

Autonomy is not binary. We define five tiers, each with an explicit approval requirement. Most PMOs land between T1 and T2 in their first year. T3 and above require a mature policy plane and well-rehearsed override procedures.

Tier	Description	Approval
<b>T0 — Observe</b>	AI summarizes and surfaces insights only.	None
<b>T1 — Suggest</b>	AI drafts artifacts; humans accept or edit.	Owner review
<b>T2 — Act with approval</b>	AI executes scoped actions after sign-off.	Named approver
<b>T3 — Act autonomously</b>	AI executes within policy guardrails.	Policy + audit
<b>T4 — Self-direct</b>	AI plans and re-plans inside a chartered envelope.	Steering board

## Mapping tiers to work

- Status summarization, meeting notes, and risk surfacing → T1.
- Drafting EVM narratives, change requests, and stakeholder updates → T1–T2.
- Routine schedule updates and tag-based ticket grooming → T2.
- Cross-portfolio rebalancing, vendor escalations, customer comms → T3 only with steering board sign-off.

## 05 · CONTROLS

# Audit by default

Every consequential action — every artifact published, every external message sent, every system-of-record updated — must be reproducible from the audit log alone. That means the log captures the prompt, the retrieved evidence, the model and version, the policy that authorized the action, the human approver if any, and the resulting side-effect.

## Minimum viable audit record

- **Trigger:** the user, schedule, or upstream event that initiated the action.
- **Evidence:** identifiers and hashes of the source records consulted.
- **Reasoning:** the model, version, prompt, and structured output.
- **Policy:** the policy version that authorized (or would have blocked) the action.
- **Approver:** the human identity, timestamp, and approval channel.
- **Outcome:** the side-effect performed, including before/after state.

*The audit log is not a logging concern. It is a product surface. Auditors, executives, and customers should be able to query it directly — without engineering involvement.*

**06 · ROLLOUT**

# A 90-day implementation roadmap

## Days 0–30 · Establish the evidence plane

- Inventory the systems-of-record and their integration surfaces.
- Stand up versioned ingestion for two pilot programs only.
- Publish a data-classification policy that the reasoning plane will respect.

## Days 31–60 · Run T1 in production

- Deploy summarization and EVM narratives at T1 (humans accept or edit).
- Instrument the audit log; require it for every published artifact.
- Hold a fortnightly governance review; tune policies based on near-misses.

## Days 61–90 · Selectively promote to T2

- Promote low-blast-radius workflows (e.g., ticket grooming) to T2.
- Introduce named approvers with documented override procedures.
- Publish an internal scorecard: cycle time, override rate, and audit completeness.

07 · MEASUREMENT

# Measuring what matters

A governed AI PMO is measurable on two axes: **acceleration** and **assurance**. Optimizing one at the expense of the other is the most common failure mode. Track both, publish both, and refuse to ship changes that improve one while degrading the other.

Acceleration	Assurance
Status cycle time (hours)	Audit completeness (% of actions)
Narrative draft latency (minutes)	Override rate (%)
Forecast variance ( $\Delta$ vs. actuals)	Policy violations caught pre-action
PMO hours reclaimed per program	Time-to-explain a decision (minutes)

Figure 2 — A balanced scorecard. Promotion to higher autonomy tiers requires gains in both columns.

## 08 · CLOSING

# Where to go from here

Governed AI in the PMO is not a model selection problem; it is an operating-model problem. The teams that succeed treat it as a governance program with a software dependency, not the other way around. They start small, instrument heavily, and refuse to promote autonomy until the audit log can stand up on its own.

## Next steps

- Audit your current PMO workflows against the four planes — note the gaps.
- Pick two pilot programs and define their autonomy tier in writing.
- Stand up the audit log first; everything else depends on it.
- Schedule a working session with BotPM.ai to pressure-test your rollout plan.

*Want a second pair of eyes on your rollout? Visit [botpm.ai/demo](https://botpm.ai/demo) to book a 30-minute working session with our delivery architects.*

## About BotPM.ai

BotPM.ai builds the governed AI layer for enterprise PMOs. Our platform implements the reference architecture in this paper out of the box — evidence ingestion, policy-aware reasoning, approval ladders, and audit by default — so PMOs can move faster without trading away the controls their auditors and customers expect.