

EU AI Act to Runtime Controls Mapping

A practical mapping from EU AI Act expectations to runtime AI inventory, risk classification, human oversight, monitoring, and evidence generation.

Use this asset to assess readiness, start a governance conversation, and identify candidates for a 6-week Aethryx design partner pilot.

Primary audience: Global enterprises, investors, legal and compliance leaders

From obligation to control

For enterprises deploying AI across jurisdictions, compliance requires more than static documentation. High-risk systems need controls that can be monitored, updated, and evidenced over time.

EU AI Act operating map

Requirement area	Runtime control	Evidence output
Risk classification	Classify systems by use case, impact, autonomy, and sector exposure.	Risk tier record and classification rationale.
Data governance	Track data sources, retrieval context, and sensitive data exposure.	Data lineage, retrieval trace, redaction logs.
Human oversight	Escalate high-risk decisions or restricted actions for approval.	Approval log and reviewer decision.
Logging and monitoring	Capture model inputs, outputs, context, tool calls, and risk signals.	Audit-ready decision trace.
Post-market monitoring	Detect incidents, drift, and recurring control failures.	Monitoring dashboard and incident record.

Buyer conversation starter

- Which AI systems could be considered high risk under current or future use?
- Can the organization reconstruct why an AI decision was made?
- Are runtime incidents routed to risk, compliance, legal, and technology owners?

Readiness Call CTA

Ready to assess your organization's AI governance maturity?

Book a 30-minute Aethryx AI Governance Readiness Call. We will help identify runtime AI risks, governance gaps, audit evidence requirements, and potential controls for your AI systems.

Recommended next step	Outcome
30-minute readiness call	Confirm priority AI systems, risk areas, and governance gaps.
6-week design partner pilot	Map controls, instrument evidence, and validate runtime governance workflows.
Executive debrief	Provide a concise risk and control roadmap for risk, technology, and audit leaders.