

# AI Governance Crosswalk

ISO/IEC 42001 · NIST AI RMF · EU AI Act, mapped through the Ozkaya AI Governance Framework (AIGF)

Three frameworks, three jobs. The **EU AI Act** is the law, the **NIST AI RMF** is the method, and **ISO/IEC 42001** is the proof. They are not competitors. Run them as one programme and let each control answer all three at once.

## LAW

EU AI Act · binding regulation, conformity assessment

## METHOD

NIST AI RMF · voluntary risk process, no certification

## PROOF

ISO/IEC 42001 · certifiable, third-party audited

AIGF Domain	NIST AI RMF (the method)	ISO/IEC 42001 (the proof)	EU AI Act (the law)
<b>DOMAIN 01</b> AI Inventory & Classification	MAP: frame each system, its purpose, users, and limits; surface shadow AI.	Clause 4 (context); Annex A controls for an inventory of AI systems.	Risk-tier classification; registration of high-risk systems in the EU database.
<b>DOMAIN 02</b> Data Governance for AI	MAP + MEASURE: data quality, provenance, representativeness, and bias.	Clause 8 (operation); Annex A data-management and data-quality controls.	Data governance and quality obligations for high-risk systems.
<b>DOMAIN 03</b> Model Security & Integrity	MEASURE + MANAGE: robustness, adversarial testing, monitoring, security.	Annex A controls across the AI system lifecycle and its security.	Accuracy, robustness, and cybersecurity obligations for high-risk systems.
<b>DOMAIN 04</b> Regulatory Compliance & Accountability	GOVERN: policy, roles, accountability, and risk culture across the lifecycle.	Clauses 5 to 7 (leadership, planning, support); Statement of Applicability.	Conformity assessment, technical documentation, human oversight, transparency.
<b>DOMAIN 05</b> AI Incident Response & Monitoring	MANAGE: prioritise, treat, escalate; the Manage to Map feedback loop.	Clauses 9 and 10 (performance evaluation, improvement); monitoring controls.	Post-market monitoring and serious-incident reporting.

**Top-level anchor:** NIST **GOVERN** ≈ ISO/IEC 42001 **Clauses 4 to 10** ≈ the EU AI Act's governance and accountability obligations. Map once at this level, then drill into controls.

Companion to the article “ISO 42001 vs NIST AI RMF vs the EU AI Act: How They Actually Fit Together” at [erdalozkaya.com](https://erdalozkaya.com).

EU AI Act high-risk timeline reflects the currently legislated position; provisional 2026 proposals (the Digital Omnibus) may shift specific dates. This crosswalk is a conceptual alignment to aid planning, not a formal control-level mapping or legal advice.

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