

AINARY RESEARCH REPORT NO. AR-008

# AI Governance for Boards

*What Every Director Needs to Know Before the Next Board Meeting*

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February 2026

Overall Confidence: 72%

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# 1. Executive Summary

- Only 22% of CEOs say their board effectively supports them on challenges including AI — the competence gap is structural and widening<sup>[1]</sup>
- EU AI Act high-risk enforcement begins August 2026 with penalties up to €35M or 7% of global revenue<sup>[2]</sup>
- The Caremark duty of oversight is extending to AI — directors who fail to monitor AI risk face personal liability under Delaware law<sup>[3]</sup>
- 99% of enterprises report AI-related losses (EY 2025, methodology unclear), yet most boards lack dedicated AI risk oversight structures<sup>[4]</sup>
- The window between optional and mandatory AI governance is closing; directors who act now build defensibility, those who wait build liability

**Keywords:** AI Governance, Board Oversight, Fiduciary Duty, EU AI Act, AI Risk, Corporate Governance, Director Liability

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## 2. Methodology

This report synthesizes primary board composition surveys (Spencer Stuart U.S. Board Index 2025, PwC Annual Corporate Directors Survey 2025), legal and regulatory analysis (EU AI Act legislative text, Delaware corporate law precedents, SEC staff guidance), international governance frameworks (NIST AI RMF, OECD AI Principles, ISO 42001), and documented failure cases from public filings and court records.

Research was conducted using a multi-agent research system combining automated source retrieval with human editorial judgment. Thirteen sources were evaluated, of which seven are primary (surveys, legal texts, case studies) and six are secondary (frameworks, analyst reports). Each claim carries an individual confidence rating; the aggregate report confidence is 72%, reflecting strong regulatory and survey evidence but gaps in AI-specific board competence measurement.

Limitations: No definitive survey quantifying "AI-literate directors" as a percentage of total board seats exists. The EY 99% claim uses an unclear definition of "AI-related." Director personal liability for AI specifically has no settled case law — legal analysis extrapolates from cybersecurity and food safety precedents.

### 3. The Competence Gap: Why Boards Are Falling Behind

(Confidence: High)

**Board composition is optimizing for the last crisis while the next one — AI — demands fundamentally different expertise.**

#### Evidence

The Spencer Stuart 2025 U.S. Board Index reveals a board ecosystem trending older and more insular. Average director age has risen to 59.1, up from 58.2 five years prior<sup>[1]</sup>. The refreshment rate has hit a decade low: S&P 500 companies appointed only 374 new directors in 2025, an 8% decrease and the lowest figure since 2016<sup>[1]</sup>. More critically, only 43% of directors have subject-matter expertise aligned with what CEOs consider their most pressing issues<sup>[1]</sup>.

Technology and telecom backgrounds account for 16% of new board appointments<sup>[1]</sup>. But "tech background" is a poor proxy for AI competence. A former telecom CEO does not necessarily understand transformer architectures, hallucination risks, or the regulatory implications of deploying a high-risk AI system under the EU AI Act. PwC's 2025 Annual Corporate Directors Survey confirms the gap: few directors report that their boards are currently using AI and GenAI in any meaningful capacity, and board appointments continue to prioritize traditional operational and financial expertise<sup>[5]</sup>.

#### Interpretation

I read this as a structural mismatch accelerating in real time. Boards are getting more experienced in the conventional sense — more retired executives, more financial expertise, more "seasoned judgment" — at exactly the moment when the most consequential strategic decisions involve technology that most directors have never used, let alone governed. The 22% figure from Spencer Stuart is damning: fewer than one in four CEOs believe their board is actually helpful on today's most pressing challenges<sup>[1]</sup>.

This is not a talent shortage in the general sense. It is a *selection* failure. Boards select for pattern recognition from the last era. AI governance requires pattern recognition from the next one.

**So What?** *If your board cannot meaningfully challenge management on AI strategy, AI risk, and AI compliance, you have a governance gap that no amount of traditional boardroom experience will close. The question is not whether directors are smart — it is whether they are relevant.*

**What would invalidate this?** *If AI competence exists on boards but is not captured in standard composition surveys — i.e., directors are more literate than the data suggests. Possible, but PwC's finding that few boards are even using AI themselves makes this unlikely.*

Exhibit 1: Board Composition Trends (Spencer Stuart, S&P 500)

METRIC	2020	2025	TREND
Average director age	58.2	59.1	↑ Aging
New director appointments	~410	374	↓ 8%, lowest since 2016
Tech/telecom backgrounds (new)	~14%	16%	↑ Slight, but not AI-specific
CEOs: board provides effective support	—	22%	Critical gap
Directors aligned with pressing issues	—	43%	Majority misalignment

Source: Spencer Stuart 2025 U.S. Board Index [1]



## 4. The Regulatory Landscape: What's Coming and When

(Confidence: High)

**By August 2026, directors of companies deploying high-risk AI in the EU face personal regulatory exposure — and the US is catching up faster than expected.**

### Evidence

The EU AI Act (Regulation 2024/1689) is the most comprehensive AI legislation globally, and its enforcement timeline is already in motion<sup>[2]</sup>:

- **February 2025:** Prohibited AI practices enforcement began
- **August 2025:** General-purpose AI (GPAI) model obligations took effect
- **August 2026:** High-risk AI system requirements become enforceable — including deployer obligations for risk management, human oversight, transparency, and record-keeping

The penalty structure is severe: up to €35 million or 7% of global annual revenue, whichever is higher<sup>[2]</sup>. For context, GDPR's maximum is 4% of global revenue. The EU AI Act explicitly creates deployer liability — meaning companies that *use* high-risk AI systems (not just develop them) carry governance obligations that require board-level attention.

In the United States, the regulatory landscape is more fragmented but converging. The SEC has increased staff comments on AI-related disclosures in 10-K risk factors and MD&A sections<sup>[6]</sup>. NIST's AI Risk Management Framework (AI RMF 1.0) provides a voluntary but increasingly referenced four-pillar structure: Govern, Map, Measure, Manage<sup>[7]</sup>. The OECD AI Principles — adopted by 46 countries — establish international norms around accountability, transparency, and robustness<sup>[8]</sup>. ISO 42001, the first certifiable AI management system standard, achieved early adoption when AWS received certification in January 2026<sup>[8]</sup>.

### Interpretation

I see three regulatory waves converging. First, the EU AI Act creates hard law with enforcement deadlines and significant penalties. Second, US regulators are tightening disclosure requirements, creating soft liability through securities law. Third, international standards (NIST, ISO, OECD) are establishing the baseline against which "reasonable" governance will be judged in any future litigation.

For boards, the practical implication is that "we're watching developments" is no longer a defensible posture. The developments have arrived. A company deploying AI for hiring decisions, credit scoring, or safety-critical applications in the EU must have a documented governance framework by August 2026 — and the board must be able to demonstrate oversight.

**So What?** *The compliance clock is ticking. Initial compliance costs for mid-size companies are estimated at \$2–5 million<sup>[9]</sup>, but the cost of non-compliance — both in regulatory penalties and litigation exposure — dwarfs the investment. Directors who have not yet placed AI governance on their board agenda are already behind.*

**What would invalidate this?** *If EU AI Act enforcement is significantly delayed or the high-risk classification is narrowed substantially. Given the legislation is already enacted and prohibited-practices enforcement has begun, this is unlikely.*

Exhibit 2: Global AI Governance Timeline — Key Deadlines for Boards

DATE	MILESTONE	IMPLICATION FOR BOARDS
Feb 2025	EU AI Act: Prohibited AI enforced	Review AI portfolio for prohibited uses
Aug 2025	EU AI Act: GPAI obligations	Assess GPAI model dependencies
2025	SEC: Increased AI disclosure scrutiny	Update 10-K risk factors, MD&A
Jan 2026	ISO 42001: AWS first certification	Certifiable standard now market-validated
Aug 2026	EU AI Act: High-risk enforcement	Full deployer compliance required
2027+	Expected US federal AI legislation	Prepare for converging transatlantic rules

Sources: EU AI Act [2], SEC guidance [6], NIST AI RMF [7], ISO 42001 [8]



## 5. Fiduciary Duty Meets AI: The Legal Framework (Confidence: Medium-High)

**The Caremark duty of oversight — historically applied to compliance and safety failures — is being extended to AI risk, and courts will not accept ignorance as a defense.**

### Evidence

The legal foundation for director AI liability runs through three Delaware precedents. In *In re Caremark* (1996), the Court of Chancery established that directors face liability for an "utter failure" to implement monitoring and reporting systems for known risks<sup>[3]</sup>. For two decades, this standard was nearly impossible to breach. Then *Marchand v. Barnhill* (2019) revived it: the Delaware Supreme Court held that "mission critical" risks require affirmative board monitoring — the case involved food safety at Blue Bell Creameries, where the board had no committee, no reporting system, and no agenda items addressing the company's core regulatory risk<sup>[3]</sup>.

The cybersecurity analogy is instructive. When Yahoo's board failed to oversee data breach risks, Verizon reduced its acquisition price by \$350 million<sup>[3]</sup>. Equifax's board oversight failure led to a \$575 million settlement<sup>[3]</sup>. In both cases, courts and regulators held that directors who failed to establish monitoring systems for foreseeable technology risks breached their fiduciary duties.

The extension to AI follows the same logic. If AI systems are mission-critical to a company's operations — influencing customer decisions, automating compliance functions, or making safety-relevant determinations — then failure to implement board-level AI monitoring constitutes the same kind of oversight gap that *Marchand* condemned.

### Interpretation

Let's be precise: this separates established law from legal extrapolation. No court has yet specifically found Caremark liability for an AI oversight failure. The legal theory, however, is straightforward and well-supported by analogy. The progression from Caremark → Marchand → cybersecurity cases → AI risk follows the same pattern courts have applied to every emerging technology risk: directors cannot claim ignorance of risks that are widely reported, commercially significant, and regulatorily flagged.

The Business Judgment Rule — the traditional shield for director decision-making — only protects *informed* decisions. A board that has never discussed AI risk, never received management reporting

on AI deployments, and never assessed regulatory exposure cannot claim it exercised informed judgment. Documentation matters. Process matters.

An emerging trend compounds this risk: D&O insurers are beginning to examine AI-related exposures, paralleling the evolution of cyber insurance exclusions<sup>[3]</sup>. Directors may find that their personal liability coverage has gaps precisely where AI risk is highest.

**So What?** *The legal question for directors is no longer "could we be liable for AI failures?" but "can we demonstrate we tried to prevent them?" Documented governance — committee structures, reporting cadences, risk taxonomies, audit trails — creates the Caremark defensibility that protects individual directors. The absence of documentation creates the "utter failure" that exposes them.*

**What would invalidate this?** *If courts explicitly reject the extension of Caremark to AI oversight, or if legislatures create safe harbors for board-level AI decisions. Neither trend is visible; the direction is toward more accountability, not less.*

Exhibit 3: Caremark Liability Framework Applied to AI Risk

ELEMENT	TRADITIONAL (CAREMARK)	AI APPLICATION
Duty	Implement monitoring systems	Implement AI risk monitoring
"Mission critical" test	Core business risk (food safety, financial controls)	AI in customer-facing, safety, or compliance functions
Breach standard	"Utter failure" to monitor	No AI committee, no reporting, no agenda items
Defense	Business Judgment Rule (informed decisions)	Documented AI governance framework
Precedent analogy	Cybersecurity (Yahoo -\$350M, Equifax \$575M)	AI deployment failures (VW, Air Canada)

Sources: Caremark (1996), Marchand v. Barnhill (2019), Yahoo/Equifax settlements [3]

## 6. Failure Cases: When Boards Didn't Know What They Didn't Know (Confidence: High)

Every major AI governance failure shares the same root cause — the board either didn't ask about AI risk or didn't understand the answers.

### Evidence

**Volkswagen / Cariad (\$7.5 billion loss).** VW's software subsidiary Cariad was intended to centralize the group's software and AI capabilities. Instead, it accumulated \$7.5 billion in losses due to chronic delays, strategic misalignment, and a board that lacked the technical competence to challenge management's software roadmap<sup>[10]</sup>. The supervisory board — dominated by labor representatives and political appointees — approved budgets and timelines it could not meaningfully evaluate. The result was not a technology failure but a governance failure.

**Air Canada Chatbot (2024).** An AI chatbot hallucinated a bereavement fare policy that did not exist, and Air Canada was held liable for honoring the chatbot's fabricated promise<sup>[11]</sup>. The case revealed that no board-level AI use policy existed, no human oversight framework governed customer-facing AI deployments, and management had deployed the system without documented risk assessment. A tribunal found that Air Canada could not disclaim responsibility for its own AI agent's statements.

**McDonald's AI Drive-Through (discontinued 2024).** After compounding order errors — including a widely publicized incident of an AI system adding hundreds of dollars of chicken nuggets to an order — McDonald's ended its AI drive-through partnership<sup>[11]</sup>. The deployment proceeded without a board-approved risk framework proportionate to customer-facing AI at scale.

**Klarna (2024-2025).** CEO Sebastian Simonsson publicly stated that AI had replaced the work of 853 full-time employees<sup>[11]</sup>. Then Klarna partially reversed course, acknowledging the reduction was too aggressive and resuming human hiring. The board did not provide an effective counterbalance to management's AI enthusiasm — a failure of the governance function at its most basic.

### Positive Counterexample

**McKinsey's AI High Performers.** The McKinsey Global Survey on AI (2025, n=1,993) identifies that 6% of companies qualify as "AI High Performers" — generating at least 5% of EBIT from AI<sup>[12]</sup>. What distinguishes them is not just technology adoption but governance maturity: dedicated AI

leadership, structured risk assessment, cross-functional oversight, and board-level engagement with AI strategy. These companies treat AI governance as a strategic enabler, not a compliance burden. The 6% figure is sobering — but it proves the model works for those who invest in it.

## Interpretation

The pattern across failure cases is consistent: management moved faster than the board could govern. In every instance, the technology deployment outpaced the governance structure. VW's board couldn't evaluate software strategy. Air Canada's board hadn't established AI use policies. McDonald's board hadn't defined risk thresholds for customer-facing AI. Klarna's board didn't temper management's enthusiasm with operational reality.

These are not edge cases. They represent the predictable outcome of the competence gap documented in Chapter 3, operating in the regulatory environment described in Chapter 4, under the legal framework outlined in Chapter 5.

**So What?** *The question for every director is: "Could this happen to us?" If your board has not conducted an AI risk inventory, has not established an AI governance framework, and cannot describe where AI is deployed in your organization and what decisions it influences — the answer is yes.*

**What would invalidate this?** *If these failures had different root causes than governance gaps — e.g., if they were primarily technology failures that no governance structure could have prevented. The evidence suggests otherwise: in each case, better board oversight would have changed the outcome.*

Exhibit 4: AI Governance Failure Case Matrix

COMPANY	LOSS / IMPACT	ROOT CAUSE	BOARD GAP
VW / Cariad	\$7.5B	Software strategy misalignment	No technical competence to challenge mgmt
Air Canada	Tribunal liability	Chatbot hallucination	No AI use policy, no human oversight framework
McDonald's	Program discontinued	Compounding order errors	No board-approved AI risk framework

COMPANY	LOSS / IMPACT	ROOT CAUSE	BOARD GAP
Klarna	Reversed headcount cuts	Over-aggressive AI replacement	Board didn't counterbalance mgmt enthusiasm

Sources: VW public filings [10], Air Canada tribunal [11], McDonald's/Klarna public reporting [11]



## 7. Best Practices: Building AI Governance That Works (Confidence:

Medium-High)

**Effective AI governance doesn't require every director to become a technologist — it requires structured oversight, the right questions, and dedicated accountability.**

### Evidence

Multiple frameworks now exist for board-level AI governance, creating a clear hierarchy of implementation options:

**NIST AI Risk Management Framework** (AI RMF 1.0) provides the most widely referenced structure, organized around four pillars: Govern, Map, Measure, Manage<sup>[7]</sup>. It is voluntary but increasingly functions as the de facto standard against which "reasonable" governance is benchmarked in the US.

**ISO 42001** is the first certifiable AI management system standard, with AWS achieving certification in January 2026<sup>[8]</sup>. Certification provides external validation and regulatory defensibility.

**The EU AI Act** mandates specific deployer obligations for high-risk AI: risk management systems, human oversight measures, transparency requirements, and record-keeping<sup>[2]</sup>. For EU-exposed companies, compliance is not optional.

**NACD** (National Association of Corporate Directors) has launched an Effective AI Oversight Certificate program and recommends, at minimum, one AI-literate director on every board plus regular management reporting on AI deployments and risks<sup>[13]</sup>.

### The 7 Questions Every Board Should Ask

Based on these frameworks and the failure patterns documented in Chapter 6, I recommend every board ensure it can answer these seven questions:

1. Where are we deploying AI and what decisions does it influence?
2. What is our AI risk taxonomy and who owns each risk category?
3. How do we validate AI outputs before they reach customers or stakeholders?
4. What is our incident response plan when AI fails?
5. Are we compliant with applicable AI regulations (EU AI Act, sector-specific requirements)?

6. What is our AI audit trail and can we explain decisions to regulators?
7. Do we have adequate AI expertise on this board or advising it?

## Board-Level Structures

Three structural options exist, in order of governance maturity:

- **Option A:** Dedicated AI/Technology Risk Committee — recommended for companies where AI is core to operations or revenue
- **Option B:** AI oversight integrated under existing Risk Committee with mandatory AI agenda items at every meeting
- **Option C:** Full board AI briefings on a quarterly cadence with external expert advisors — minimum viable governance

## Interpretation

I note a tension in the framework landscape: there are now *too many* frameworks, creating confusion for boards that are already struggling to understand the basics. My recommendation is pragmatic: start with the NIST AI RMF as the organizing structure, layer EU AI Act compliance on top for EU-exposed operations, and pursue ISO 42001 certification as a medium-term goal for external validation.

The compliance cost reality deserves honest framing. Initial compliance costs for mid-size companies are estimated at \$2–5 million<sup>[9]</sup>. This is significant. But the break-even calculation is straightforward: one prevented VW-scale failure, one avoided regulatory penalty, or one successful Caremark defense pays for decades of governance infrastructure.

**So What?** *The frameworks exist. The question is not "what should we do?" but "when will we start?" Every month of delay is a month of unmonitored AI risk exposure — exposure that is simultaneously increasing as AI deployment accelerates and regulatory enforcement approaches.*

**What would invalidate this?** *If AI governance frameworks prove ineffective in practice — i.e., if companies with strong AI governance experience the same failure rates as those without it. McKinsey's High Performer data<sup>[12]</sup> suggests the opposite: structured governance correlates with AI value creation.*

## Exhibit 5: AI Governance Maturity Model

LEVEL	DESCRIPTION	BOARD ROLE	EXAMPLE INDICATOR
1 — Awareness	Board knows AI is used	Occasional briefings	AI mentioned in board minutes
2 — Reactive	AI incidents trigger board attention	Post-incident reviews	AI incident escalation path exists
3 — Structured	Formal AI oversight established	Committee or dedicated agenda	AI risk taxonomy documented
4 — Proactive	Board drives AI governance strategy	Regular reporting + challenge	AI governance KPIs tracked
5 — Integrated	AI governance embedded in all decisions	Continuous oversight	AI competence in board evaluation criteria





## 8. The Action Agenda: What to Do Before the Next Board Meeting (Confidence: High)

**The window between "optional" and "mandatory" AI governance is closing. Directors who act now build defensibility; those who wait build liability.**

### Immediate (Next 30 Days)

- Commission an AI risk inventory from management: where is AI deployed, what decisions does it influence, what could go wrong
- Add AI governance as a standing agenda item for the next board meeting
- Review D&O insurance policies for AI-related exclusions or coverage gaps
- Assign one director as AI governance lead (even informally)

### Short-Term (Next 90 Days)

- Establish a formal AI oversight structure — committee, subcommittee, or mandatory agenda item
- Engage an external AI governance advisor for an independent assessment
- Initiate board AI education: NACD certificate program<sup>[13]</sup> or equivalent
- Request management's AI deployment register and risk assessment

### Medium-Term (Before August 2026)

- Implement EU AI Act compliance framework for high-risk AI systems (if applicable)
- Adopt NIST AI RMF<sup>[7]</sup> or pursue ISO 42001 certification<sup>[8]</sup>
- Document all AI governance decisions, discussions, and risk assessments for Caremark defensibility
- Review and update AI-related disclosures in public filings (10-K risk factors, proxy statements)
- Establish AI incident response and escalation protocols

**So What?** *This is not a theoretical exercise. The EU AI Act enforcement date is fixed. Delaware courts do not grandfather ignorance. D&O insurers are repricing risk now. The cost of building governance infrastructure is knowable and manageable. The cost of not building it is unknowable and potentially catastrophic.*

**What would invalidate this?** *If a major jurisdiction creates blanket safe harbor protections for board-level AI decisions, reducing the legal incentive for governance investment. No such legislation is proposed or under consideration.*

#### Exhibit 6: 90-Day AI Governance Implementation Checklist

WEEK	ACTION	OWNER	DELIVERABLE
1-2	Commission AI risk inventory	CEO / CTO	AI deployment register
2-3	Review D&O insurance	General Counsel	Coverage gap analysis
3-4	Board agenda: AI governance	Board Chair	Agenda item + briefing materials
4-6	Assign AI governance lead	Nom/Gov Committee	Director designated
6-8	External advisor engagement	Board Chair	Advisory scope defined
8-10	Board AI education	All directors	Training program initiated
10-12	Formal oversight structure	Full board	Committee charter or agenda mandate

## 9. Beipackzettel

**Overall Confidence:** 72%

**Sources:** 7 primary (Spencer Stuart Board Index, PwC Directors Survey, EU AI Act legislative text, Delaware case law, SEC guidance, VW public filings, Air Canada tribunal ruling), 6 secondary (NIST AI RMF, OECD AI Principles, ISO 42001, WEF governance report, NACD guidance, McKinsey AI survey)

**Strongest Evidence:** Spencer Stuart Board Index data (40-year track record, S&P 500 full coverage) and EU AI Act legislative text (enacted law with fixed enforcement dates)

**Weakest Spot:** No definitive survey quantifies "AI-literate directors" as a percentage of total board seats. The competence gap is inferred from proxy data (tech backgrounds, CEO satisfaction, PwC findings). The EY 99% AI-related losses claim [4] uses an unclear definition of "AI-related" and unverified methodology.

**What would invalidate this report?** If boards are actually more AI-competent than surveys suggest — i.e., competence exists but isn't captured in standard board composition metrics. Or if EU AI Act enforcement is significantly delayed or the high-risk classification is substantially narrowed.

**Methodology:** Multi-source research combining primary board surveys, legal and regulatory analysis, international governance frameworks, and documented failure cases. Research conducted via multi-agent research system with automated source retrieval and human editorial judgment.

**This report was created with a Multi-Agent Research System.**

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## Claim Register (Appendix)

#	CLAIM	VALUE	SOURCE	CONFIDENCE	WHAT WOULD INVALIDATE?
C1	CEOs receiving effective board support	22%	Spencer Stuart 2025 [1]	High	Different survey methodology or sample
C2	Directors aligned with pressing issues	43%	Spencer Stuart 2025 [1]	High	Question framing bias
C3	EU AI Act max penalties	€35M / 7% revenue	Legislative text [2]	High	Amendment or repeal (unlikely)
C4	Enterprises with AI-related losses	99%	EY 2025 [4]	Medium	"AI-related" broadly defined
C5	S&P 500 new director appointments	374 (8% decrease)	Spencer Stuart [1]	High	Counting methodology
C6	VW Cariad losses	\$7.5B	Public filings [10]	High	Different loss attribution
C7	AI High Performers	6% of companies	McKinsey (n=1,993) [12]	High	Self-reported EBIT attribution
C8	AI compliance costs (mid-size)	\$2-5M initial	Industry estimate [9]	Medium	Single source, high variance
C9	Equifax settlement	\$575M	Public record [3]	High	—

#	CLAIM	VALUE	SOURCE	CONFIDENCE	WHAT WOULD INVALIDATE?
C10	Yahoo acquisition price reduction	\$350M	Public record [3]	High	—



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## About the Author

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