

FROM BREACH HEADLINES TO BOARD CONFIDENCE

Navigating Cyber Incidents from the Boardroom: Reputation, Regulation, Resilience, and
Risk Quantification

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01

THE 2026 BREACH LANDSCAPE

Why the board can no longer treat cybersecurity as an IT line item

THE FINANCIAL REALITY BOARDS CANNOT IGNORE

\$

\$10.93M

Average U.S. Data Breach Cost

IBM / Ponemon 2025 — All-time record

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\$3.09B

UnitedHealth / Change Healthcare Total Breach Cost

UHG Annual Filing 2025

🕒

4 Days

SEC Deadline to Disclose Material Incident on Form 8-K

SEC Rule — Dec 2023

📱

84%

CISOs Say a Successful Breach is Inevitable

HelpNet Security 2025

Cybersecurity is no longer a technical problem. It directly impacts **revenue growth**, **customer trust**, and **executive job security**.

HOW BREACHES HAPPEN — AND WHY BOARDS ARE ACCOUNTABLE

01

74%

HUMAN ELEMENT / SOCIAL ENGINEERING

Phishing, pretexting, and credential harvesting — AI has made these 5x faster and 75% more effective at bypassing filters.



02

61%

CREDENTIAL THEFT

Stolen credentials remain the top initial access vector; average dwell time before detection: 194 days.



03

45%

THIRD-PARTY / SUPPLY CHAIN

Software supply chain attacks grew 68% YoY; SolarWinds proved no vendor is immune.



04

38%

RANSOMWARE DEPLOYMENT

Average ransom payment \$1.5M; average total cost including recovery: \$5.2M.



05

22%

INSIDER THREAT

Privileged access abuse and negligent insiders — the threat your perimeter cannot stop.



Sources: Verizon DBIR 2024 | IBM Security | Proofpoint 2025

74% of breaches involve the human element. Boards that still classify cybersecurity as an IT problem are mispricing the single largest operational risk on their register.

THE AI-AGENTIC THREAT ERA — MACHINE-SPEED OFFENSE

Autonomous AI has shifted the attacker advantage from scale to autonomy — human-speed defense is no longer viable.

AUTONOMOUS AI ATTACK AGENTS

90%

of operations executed autonomously

First confirmed AI-orchestrated cyber espionage campaign (2025): AI autonomously performed reconnaissance, lateral movement, and data exfiltration with minimal human intervention.

AI-GENERATED PHISHING AT SCALE

1,265%

surge since 2023 — 5x growth in 2025

AI-crafted phishing is 75% more effective at bypassing filters. A campaign that took a red team 16 hours now takes AI 5 minutes — at 95% lower cost.

DEEPPAKE SOCIAL ENGINEERING

2,137%

increase since 2022 — 179 incidents in Q1 2025 alone

Deepfake BEC is operational: cloned executive audio/video authorizes fraudulent transfers. Visual verification is no longer a reliable control.

POLYMORPHIC & ADAPTIVE MALWARE

76%

of detected malware now exhibits AI-driven polymorphism

Malware mutates in real-time to evade signature-based detection. AI-driven payload mutation renders traditional endpoint defenses obsolete.

BOARD IMPLICATION

87% of organizations experienced AI-enabled attacks in 2025. Average AI-powered breach cost: **\$5.72M** (+13% YoY). The threat is not emerging — it is operationalized.

02

REPUTATIONAL RISK IS A BOARD-LEVEL RISK

How public cyber incidents are reshaping shareholder value, regulatory exposure, and stakeholder trust

THE HEADLINES THAT CHANGED GOVERNANCE — FOUR INFLECTION POINTS

EQUIFAX

2017

145M Americans exposed — SSNs, birthdates, addresses. Unpatched Apache Struts vulnerability — patch available for 2 months.

BOARD IMPACT

CISO and CIO resigned. Board directors lost re-election votes. Stock dropped 35%. \$1.4B total settlement.

FAIR LENS

ALE was predictable — patch management failure with known vulnerability and massive asset exposure.

SOLARWINDS

2020

Nation-state supply chain attack via Orion update. 18,000 organizations received compromised update, including US federal agencies.

BOARD IMPACT

SEC charged CISO Timothy Brown with fraud for misleading investors. Forced industry-wide supply chain security rethinking.

FAIR LENS

Third-party risk with catastrophic secondary loss magnitude.

MGM RESORTS

2023

10-minute social engineering call to IT help desk. \$100M+ total impact. 10-day system shutdown.

BOARD IMPACT

A single social engineering vector bypassed billions in security investment. Insurance claim disputed.

FAIR LENS

Extremely high vulnerability (human factor) with massive operational loss magnitude.

CHANGE HEALTHCARE

2024

Largest healthcare breach in US history — 100M+ patient records. MFA not enabled on critical Citrix remote access portal. \$3.09B total cost.

BOARD IMPACT

Triggered Congressional hearings. CEO Andrew Wittig grilled. Exposed systemic healthcare sector cyber fragility.

FAIR LENS

Single control failure (MFA) yielded catastrophic loss event. ALE far exceeded any prior investment analysis.

Every case study shares one pattern: **the breach was foreseeable, the control gap was known, and the board was under-informed.** FAIR quantification would have surfaced each of these as a top-tier risk before the headline.

🕒 THE FIRST 48 HOURS — YOUR MOST CONSEQUENTIAL WINDOW



0–2 HOURS CONFIRM AND CONTAIN

Activate incident response team and establish command structure

Preserve forensic evidence — do not reboot or wipe affected systems

Contain blast radius — isolate compromised segments

Establish secure, out-of-band communication channel



2–8 HOURS ASSESS AND TRIAGE

Classify incident severity using pre-defined criteria

Identify compromised systems, data types, and affected populations

Begin regulatory clock assessment (SEC, state notification, contractual)

Draft initial board notification — factual, concise, decision-oriented



8–24 HOURS GOVERN AND DISCLOSE

Convene board cybersecurity committee or emergency session

Engage outside counsel (privilege), forensic investigators, crisis PR

Prepare SEC materiality assessment framework

Draft stakeholder communications — investors, customers, regulators



24–48 HOURS COMMUNICATE AND MANAGE

Execute stakeholder notification plan per legal counsel guidance

File regulatory notifications as required

Begin customer and partner communication

Establish ongoing situation reporting cadence to board

The first 48 hours define the narrative. Every hour of delay compounds reputational damage and regulatory risk.

WHAT BOARDS EXPECT FROM THE FIRST CISO BRIEFING

BOARD ASKS

1 "What happened?"

2 "How bad is it?"

3 "Is it contained?"

4 "Who else knows?"

5 "What are our legal obligations?"

6 "What are we telling customers?"

7 "Could this have been prevented?"

8 "What happens next?"

CISO DELIVERS

→ Incident classification, attack vector, timeline of event. 'We know X. We do not yet know Y. We will know Y by [time]. Establish a facts cadence.

→ Scope of compromise: systems, data, customers affected. Document all assumptions. Anchor the board to a range – not a single number that will compound.

→ Current containment status, blast radius, ongoing risk

→ Regulatory notification status, law enforcement engagement

→ SEC 8-K clock, state notification laws, contractual obligations

→ Communication plan, timing, messaging

→ Root cause (preliminary), control gaps, prior warnings

→ Remediation plan, timeline, resource requirements

Boards do not want technical forensics. They want decision-grade intelligence: What happened, what it means, and what we are doing about it.

03





FROM REACTIVE TO RESILIENT

The governance posture that earns board confidence



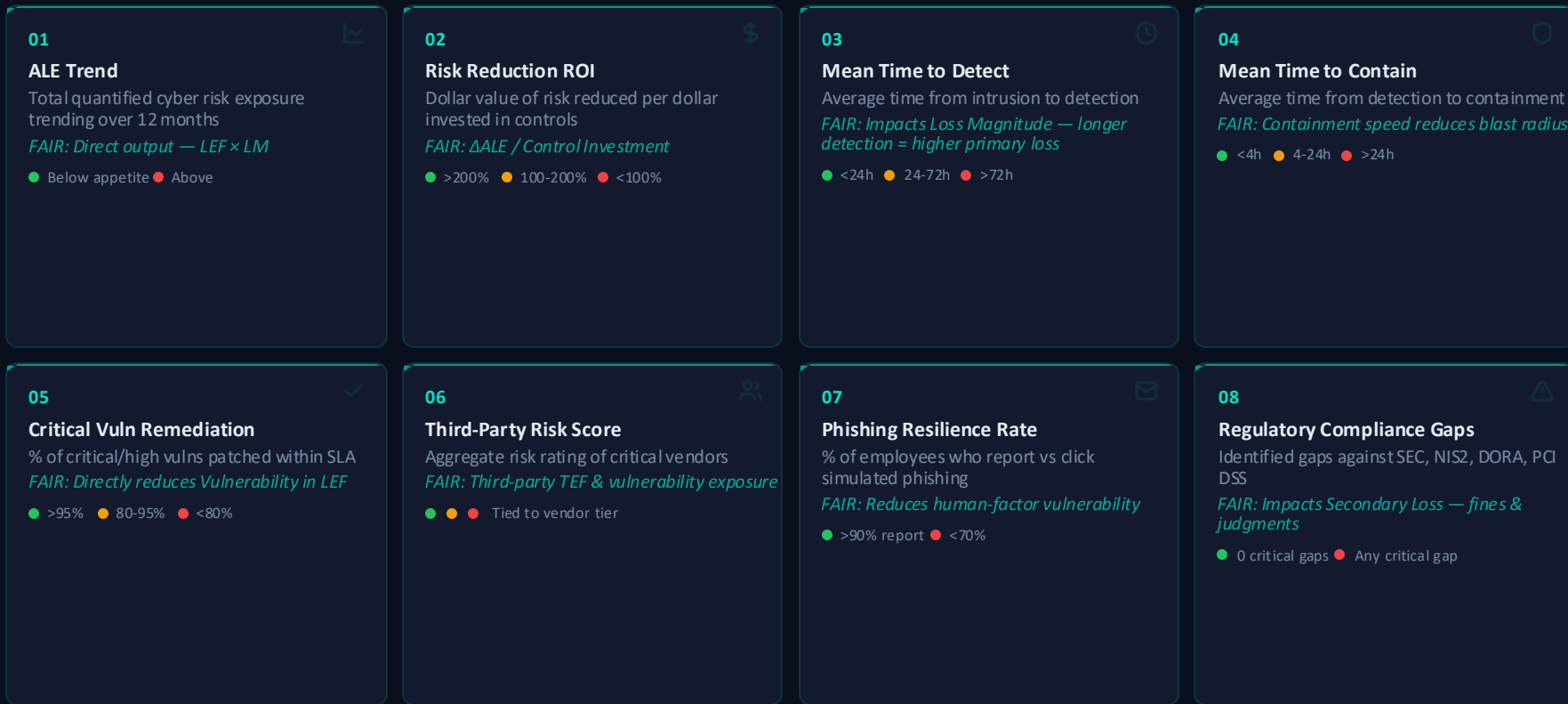
BOARD-LEVEL CYBER REPORTING CONSIDERATIONS

The foundational framework for governance-grade cybersecurity communication

- 01**  **RISK APPETITE ALIGNMENT**
Before a single metric is reported, the board must have articulated, in writing, its cyber risk appetite. How much operational disruption is acceptable? What data loss constitutes a material event? What reputational damage threshold triggers crisis protocols? Without this anchor, every metric is context-free noise.
- 02**  **SPEAK IN OUTCOMES, NOT ACTIVITIES**
The most consequential shift a CISO can make: retire activity reporting and adopt exposure narratives. "We patched 4,200 systems" is an operational update. "Fourteen critical assets in our payment infrastructure carry unmitigated exposure of \$2.4M" is a governance input. Report whether risk is compressing or expanding.
- 03**  **MAP INVESTMENT TO RESILIENCE**
Boards make capital decisions. They need line-of-sight from cybersecurity spend to measurable risk reduction — not assurance that the security team is occupied. Deliver a rolling 12-month spend-to-ALE-reduction analysis benchmarked against sector peers.
- 04**  **INSTITUTIONALIZE PATTERN RECOGNITION**
Governance matures through accumulated context. Quarterly briefings covering confirmed incidents, near-misses, and sector-specific threat patterns equip directors to ask increasingly precise questions and allocate resources with conviction.
- 05**  **REGULATORY AND COMPLIANCE LANDSCAPE**
NIS2, DORA, SEC cyber mandates, evolving NIST frameworks — the regulatory velocity is unprecedented. Boards require a forward-looking obligation calendar mapping deadlines, identified gaps, and resource requirements. This is not a legal briefing — it is strategic risk intelligence

THE BOARD-READY CYBER DASHBOARD — 8 METRICS THAT MATTER

No more than 8 strategic metrics, each with a clear RAG threshold tied to risk appetite



Eight metrics. Each tied to risk appetite. Each has a clear threshold. Each mappable to FAIR loss forms. This is a governance tool, not a technology report.

KEY TAKEAWAYS — THE BOARD CONFIDENCE MANDATE

1 Cyber risk is financial risk.

Average US breach cost: \$10.93M. This is not an IT budget line — it is an enterprise risk that demands board-level quantification through FAIR and ALE

2 The threat landscape has fundamentally shifted.

AI-agentic attacks operate at machine speed. Post-quantum threats are approaching. HNDL. Periodic vulnerability scanning is no longer sufficient — CTEM is the new baseline.

3 Reputation is your most expensive asset to rebuild.

Every major breach since 2017 demonstrates: the control gap was known, the board was under-informed, and the reputational cost exceeded the technical cost by orders of magnitude.

4 The first 48 hours define the outcome.

Boards that have rehearsed the 48-hour playbook, appointed a materiality triage committee, and established SEC decision frameworks will control the narrative. Those that have not will be controlled by it.

5 Embed governance into the organization, not the individual.

The CISO is a contributor to enterprise risk management — not the sole owner. Boards that do not formally own cyber risk governance will be held accountable — by regulators, shareholders, and prosecutors. Boards are now directly accountable for cyber risk under SEC, CIRCIA, NIS2, and DORA.

The distance between breach headlines and board confidence is not more technology — **it is better governance.**

THANK YOU

Questions and Discussion

From Breach Headlines to Board Confidence

