

AI Becomes Mainstream For Compliance

Idea In Short

Artificial intelligence has become a mainstream operational tool in compliance, with 70% of firms planning significant AI investments, shifting compliance from a defensive role to a strategic risk function. While surveillance and monitoring are top use cases, the primary challenge is operationalizing these technologies effectively, with data quality, explainable AI, and robust governance now critical to ensure resilience and maintain market trust

The results of the latest Nasdaq Global Compliance Survey reveal an acceleration in AI adoption, with 70% of firms planning to scale their investment. For these firms, compliance is no longer just a defensive necessity; it is a strategic function, with surveillance and monitoring being the primary use cases. The key challenge has shifted from simply keeping pace with regulatory change to the difficult task of operationalizing these sophisticated new technologies effectively and ethically across the entire enterprise.

The Compliance Tipping Point

Is compliance still a cost center or is it the newest strategic pillar of the enterprise? If your organization hasn't moved AI from a niche experiment into a fundamental operational capability, you are already falling behind. The game has changed!

For years, the integration of technology into the Chief Compliance Officer's (CCO) mandate felt like a slow, defensive maneuver. Today, it's a full-scale, aggressive pivot.

The Nasdaq Global Compliance Survey of 2025 paints a picture of a function that is finally claiming its place at the executive table. For instance, the number of Heads of Compliance reporting directly into the Chief Risk Officer (CRO) has risen significantly to 33%.

This is not a clerical reporting shift; it's a strategic realignment.

It signals that compliance is no longer viewed as reactive policing managed by the Chief Operations Officer (COO); it is now recognized as a critical pillar of enterprise risk control.

More than half of all surveyed firms—51%—reported a stronger presence at the executive table, up from 45% in 2024. This momentum means AI is no longer optional for maintaining market integrity—it is the engine of next-generation Regulatory Technology (RegTech).

The New Battlefield

The sheer acceleration of investment confirms this new reality: 70% of firms are planning to add or scale their AI-enabled capabilities in the next 12 to 24 months, particularly in core areas, such as surveillance and monitoring. But, here is the profound irony revealed by the data:

the top challenge for compliance professionals is no longer new regulation or fraud risk, but the complex task of operationalizing the new technology itself.

Think of it this way: AI is the most powerful jet engine ever designed, but most companies are struggling to build the runway, let alone keep it clean.

This "operational maturity gap" is the real existential risk today. You can spend millions on sophisticated machine learning models, but the outcome is always constrained by a timeless principle:

Garbage in, garbage out

Data quality is the often-overlooked scaffolding upon which all robust AI must be built. If the foundation is shaky, the skyscraper will fall.

In the financial sector, this is not a theoretical threat; it's a quantifiable cost. Firms worldwide are incurring an estimated US \$15 million in average annual losses due to poor data quality, covering everything from operational rework to fines. A high-performing AI system is not a magic wand; it is a mirror reflecting the quality of the data and governance you feed it.

The Litmus Test Of Trust

In a highly regulated environment, a compliance failure is a governance failure and an AI failure is a trust failure.

It is simply not enough to build a model that is fast and accurate; it must also be secure, robust and fundamentally fair. This is where the emerging field of AI Governance intersects directly with core regulatory principles.

The antidote is embedding principles, such as Explainable AI (XAI)—tools that allow the model to articulate how it reached a specific decision. This is critical because for a financial institution, every decision made by an AI—from a fraud flag to a loan denial—must be legally defensible. If you cannot explain the output to a regulator or a court of law, you have not deployed an AI model, you have deployed a regulatory time bomb.

Operationalizing Resilience For The Future

Moving forward, the successful adoption of AI in compliance rests on a few core mandates. Firms must move beyond siloed solutions and establish true cross-product visibility in their surveillance programs, a sophisticated step that over a third of firms have already taken. This integrated approach ensures that a pattern flagged in one business line is automatically correlated across the entire customer or market profile.

Furthermore, we must treat AI models like living assets that require active maintenance, an approach known as Model Risk Management (MRM). This involves constant and continuous monitoring of models in production to detect drift, bias and unexpected outcomes. It is the mechanism that ensures resilience in a dynamic regulatory environment. The compliance function is crossing the Rubicon; it is embracing AI not as an option for efficiency, but as the only viable path to manage modern complexity. The challenge now is to infuse every AI deployment with the necessary governance, ethics and rigor to earn and retain the market's trust.

Summary

- AI adoption in compliance is now an enterprise-wide mandate, shifting the function from reactive policing to strategic risk mitigation under the Chief Risk Officer (CRO)
- The single greatest challenge is the operational maturity gap, demanding executive focus on data quality, robust AI frameworks and continuous monitoring over simply acquiring shiny new technology
- Effective AI governance must embed principles of fairness and non-discrimination by design, using concepts like Explainable AI (XAI) to ensure all models are legally defensible and retain public trust