

## Boardroom AI: The Governance of AI-Assisted Corporate Decision-Making

**Farhang Salehi**

President, 1000072650 Ontario (Rosha) Toronto, Canada

**KEYWORDS:** AI Governance, Corporate Decision-Making, Boardroom AI, Ethical AI Compliance, AI Risk Management

**Corresponding Author:**  
**Farhang Salehi**

**Publication Date:** 30 April-2025

**DOI:** [10.55677/GJEFR/08-2025-Vol02E4](https://doi.org/10.55677/GJEFR/08-2025-Vol02E4)

**License:**

This is an open access article under the CC BY 4.0 license:  
<https://creativecommons.org/licenses/by/4.0/>

### ABSTRACT

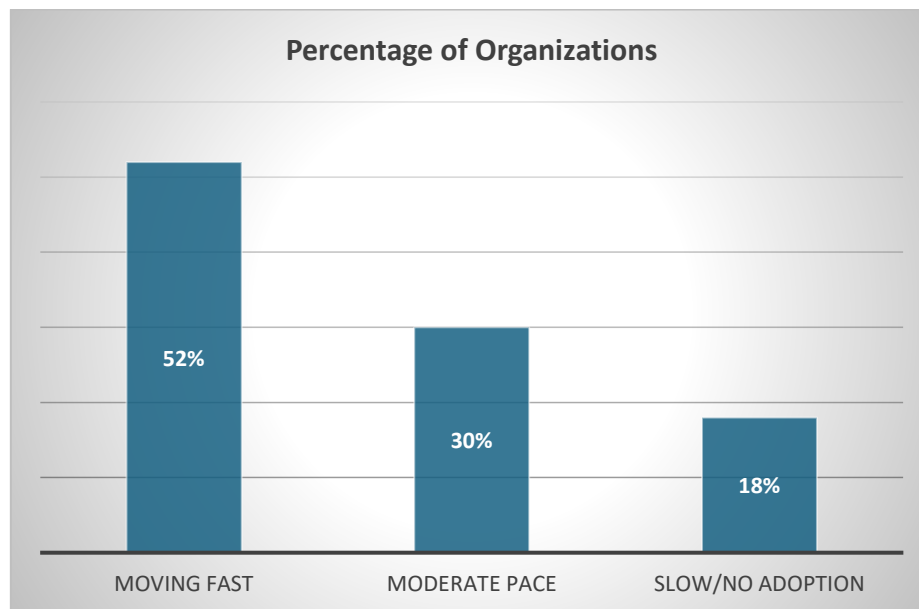
Artificial Intelligence (AI) is no longer a distant dream but a drastic change to the ordinary world of companies ascending in the corporate world. The governance of the boardroom is the technology that has been overshadowed, and now it is the topics of conversation in the boardroom. The organizations of the AI for the decision-making process of the boardroom bring numerous advantages like better efficiency, predictive analytics, and risk management in the conduct of the decision making process. On the one hand, it creates some governance challenges such as transparency, accountability, ethical compliance, and regulatory alignment but on the other hand, it automates boardroom decision-making, and a higher level of profitability is thus achievable. This study is an extensive discussion of decision making in the corporate world helped by AI by addressing its advantages, risks, and the changes in the boards' responsibilities, which they face when managing AI-related strategies. For better understanding of this new field, we provide research data, practical application examples, and the governance models that can be used by the organizations to guarantee the ethical AI implementation. We also deliberate on the requirements of human supervision, legal compliance, and moral considerations in AI governance. Moreover, it brings forth a systematic approach to the control of AI's dangers and the maximization of potential within the corporate governance framework.

### INTRODUCTION

#### The Rise of AI in the Boardroom

AI's integration into corporate decision-making is no longer a novelty but a necessity. The global AI market reached \$196.63 billion in 2023 and is projected to grow at an annual rate of 36.6% from 2024 to 2030 (Bughin et al., 2023). A 2024 survey by Deloitte revealed that 52% of organizations are moving "fast" in adopting Generative AI, with 76% of leaders expecting it to drive substantial transformation within three years (Deloitte, 2024). Additionally, 78% of organizations plan to increase their AI spending in the next fiscal year (Deloitte, 2024).

In the boardroom, AI is being used to enhance decision-making by processing vast amounts of data quickly and accurately. For example, JP Morgan Chase employs an AI system called COiN to review complex legal documents in seconds, a task that would typically take thousands of hours (Brynjolfsson & McAfee, 2017). This capability reduces human error and ensures early identification of compliance issues (Salehi, 2024). However, the same survey from Deloitte found that nearly 50% of board directors and executives say AI is not yet on their board agenda, highlighting a gap in governance readiness (Deloitte, 2024).



**Diagram 1: AI Adoption in Corporate Decision-Making**  
 (Source: Deloitte State of Generative AI in the Enterprise Survey, July/Sept. 2024)

This diagram illustrates the varying speeds at which organizations are adopting AI, emphasizing the urgency for boards to address governance.

### Benefits of AI in Corporate Decision-Making

AI offers several advantages in the boardroom, transforming traditional decision-making processes:

1. **Data-Driven Insights:** AI can analyze market trends, customer behavior, and financial patterns in real-time, providing boards with precise forecasts and risk assessments. For instance, Netflix uses AI to predict audience preferences, enabling strategic content decisions that give it a competitive edge (Agrawal et al., 2018).
2. **Bias Mitigation:** Traditional decision-making often relies on human judgment, which can be influenced by unconscious biases. AI, when properly designed, can mitigate these biases by focusing on objective data. A study by Obermeyer et al. (2019) noted that AI in healthcare reduced error rates in metastatic breast cancer diagnoses by 85%, a principle that can be applied to corporate decision-making to eliminate blind spots.
3. **Efficiency and Automation:** AI streamlines governance processes by automating tasks like compliance monitoring, agenda planning, and minutes generation. This allows board members to focus on strategic issues. Salesforce CEO Marc Benioff uses an AI tool called Einstein to provide data-driven analysis during executive meetings (Davenport & Ronanki, 2018).
4. **Risk Management:** AI enhances risk management by identifying patterns that humans might overlook. In the insurance sector, AI analyzes past incidents of fraud or cybersecurity threats, enabling proactive risk mitigation (Brynjolfsson & McAfee, 2017).

### Impact of AI on Decision-Making Efficiency

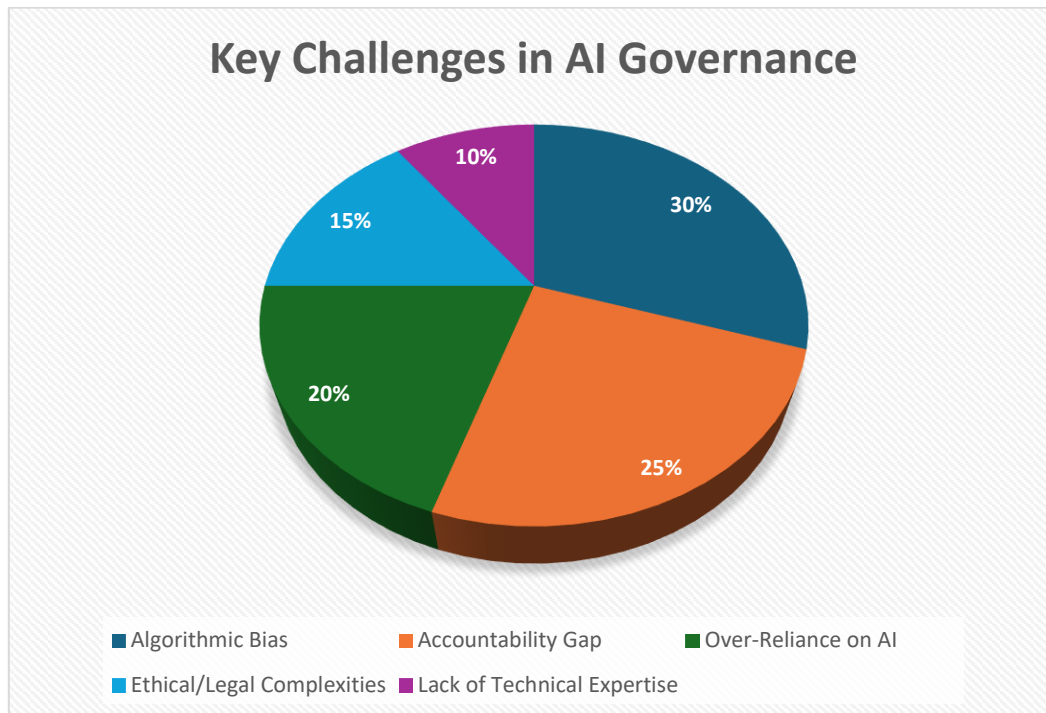
- 97% of business owners believe AI will significantly improve their operating models (Bughin et al., 2023).
- AI can reduce the time for complex document reviews by up to 99% (Brynjolfsson & McAfee, 2017).

### Challenges and Risks of AI in the Boardroom

While AI offers significant benefits, it also presents challenges that boards must address to ensure responsible governance:

1. **Algorithmic Bias:** Despite its potential to reduce human bias, AI systems can perpetuate biases if trained on flawed data. Studies have shown that AI can exhibit its own biases, which could undermine diversity initiatives in board composition (Mehrabi et al., 2021).
2. **Accountability Gap:** A key concern is the lack of accountability in AI-driven decisions. If an AI system makes a flawed decision, who is responsible—the board, the developers, or the AI itself? Legal frameworks, such as Delaware corporate law, require directors to be human beings, complicating the accountability of AI as a decision-maker (Zetzsche et al., 2020).
3. **Over-Reliance on AI:** Boards may become overly dependent on AI, potentially diminishing their independent judgment. Research by Kaplan and Haenlein (2021) highlights the risk of directors conforming to AI's "views" due to its perceived superiority.

4. **Ethical and Legal Complexities:** The use of AI raises ethical questions, such as data privacy and transparency. Shareholders demand clear communication about AI strategies, and boards must ensure compliance with evolving regulations like the EU General Data Protection Regulation (GDPR) (Wachter et al., 2017).



**Diagram 2: Key Challenges in AI Governance**  
(Source: Compiled from various studies on AI governance challenges)

This pie chart highlights the distribution of challenges boards face in governing AI, with algorithmic bias being the most significant concern.

### The Role of Boards in AI Governance

Boards of directors play a pivotal role in ensuring that AI is used responsibly and effectively in corporate decision-making. Their responsibilities include:

1. **Developing AI Fluency:** Boards must gain a fundamental understanding of AI to ask the right questions. Research by Kolbjørnsrud et al. (2021) found that only 30% of board directors believe they have the right expertise to advise on generative AI implementation.
2. **Establishing Oversight Frameworks:** Boards should create AI oversight committees to integrate AI governance into risk management frameworks (Zetsche et al., 2020).
3. **Balancing Opportunities and Risks:** Boards must ensure that AI's benefits are harnessed while mitigating its risks (Kaplan & Haenlein, 2021).
4. **Maintaining Human Oversight:** The principle of "Noses In, Fingers Out" is crucial—boards should stay informed about AI's role without crossing into operational management (Zetsche et al., 2020).

### Board Readiness for AI Oversight

- Only 13% of S&P 500 companies have AI expertise on their boards (Kolbjørnsrud et al., 2021).
- 36% of S&P 500 companies mentioned AI in their earnings calls last quarter (Kolbjørnsrud et al., 2021).

### Future Trends and Scenarios

The future of AI in the boardroom is poised to evolve in several ways:

1. **AI as a Board Member:** While not legally recognized as directors, AI systems like Vital (appointed by Deep Knowledge Ventures in 2014) and Aiden Insight (added to Abu Dhabi's International Holding Company in 2024) are already participating in boardrooms as non-voting members. A decade-old World Economic Forum survey predicted that nearly half of respondents believed AI directors would be appointed by 2025, a trend that is slowly materializing (Kaplan & Haenlein, 2021).

2. **Hybrid Boards:** In a hybrid-board scenario, human directors and AI systems collaborate. However, this raises concerns about human directors conforming to AI's views, as noted in a 2021 Forbes article. Ensuring accountability in such scenarios remains a challenge (Zetzsche et al., 2020).
3. **AI-Driven Diversity:** AI could potentially enhance board diversity by selecting candidates based on merit and diverse perspectives. However, a 2022 European Business Organization Law Review article argued that AI's own biases mean that quotas for female representation should be maintained to ensure gender diversity (Mehrabani et al., 2021).

### Projected Growth of AI in Governance

- The AI market is expected to grow at a 36.6% annual rate from 2024 to 2030 (Ideals Board, 2024).
- 75% of organizations anticipate changes to their talent strategies within two years due to Generative AI (Deloitte, 2024).

The governance of AI in the boardroom is not just a technological challenge but a strategic imperative. Boards that embrace this evolution with a balanced approach will be best positioned to lead their organizations into the future.

### RECOMMENDATIONS FOR EFFECTIVE AI GOVERNANCE

To navigate the complexities of AI-assisted decision-making, boards should adopt the following strategies:

1. **Invest in Education:** Boards must prioritize AI education to develop fluency. This aligns with corporate governance codes in countries like France and Germany, which mandate board education on technological changes Kolbjørnsrud et al., 2021).
2. **Implement Ethical Guidelines:** Boards should establish ethical principles for AI use, ensuring fairness, transparency, and accountability. This includes regular audits to detect and address algorithmic biases (Wachter et al., 2017).
3. **Foster Collaboration with Management:** A coordinated relationship between the board and management is essential to balance AI's opportunities and risks, as highlighted by a 2024 Harvard Law School article (Kaplan & Haenlein, 2021).
4. **Advocate for Regulatory Clarity:** Boards should engage with regulators to advocate for a principles-based approach to AI regulation, reducing uncertainty while fostering innovation (Zetzsche et al., 2020).

### CONCLUSION

AI-assisted corporate decision-making is reshaping the boardroom, offering unprecedented opportunities for data-driven insights, efficiency, and risk management. However, it also introduces significant challenges, including algorithmic bias, accountability gaps, and ethical complexities. Boards must take a proactive role in governing AI, developing fluency, establishing oversight frameworks, and maintaining human oversight to ensure responsible use. As AI continues to evolve, its influence in the boardroom will grow, potentially leading to hybrid boards or even AI directors. By addressing these challenges head-on, boards can harness AI's potential to drive sustainable innovation and growth while safeguarding their organizations and stakeholders.

### REFERENCES

1. Agrawal, A., Gans, J., & Goldfarb, A. (2018). *Prediction Machines: The Simple Economics of Artificial Intelligence*. Harvard Business Press.
2. Brynjolfsson, E., & McAfee, A. (2017). *Machine, Platform, Crowd: Harnessing Our Digital Future*. W.W. Norton & Company.
3. Bughin, J., Hazan, E., & Ramaswamy, S. (2023). *The Economic Potential of Generative AI*. McKinsey Global Institute.
4. Davenport, T. H., & Ronanki, R. (2018). "Artificial Intelligence for the Real World." *Harvard Business Review*, 96(1), 108-116.
5. Deloitte. (2024). *State of Generative AI in the Enterprise Survey*. Deloitte Insights.
6. Kaplan, A., & Haenlein, M. (2021). "Siri, Siri, in My Hand: Who's the Fairest in the Land? On the Interpretations, Illustrations, and Implications of Artificial Intelligence." *Business Horizons*, 64(1), 15-25.
7. Kolbjørnsrud, V., Amico, R., & Thomas, R. J. (2021). "How Artificial Intelligence Will Redefine Management." *Harvard Business Review*, 99(2), 1-10.
8. Mehrabi, N., Morstatter, F., Saxena, N., Lerman, K., & Galstyan, A. (2021). "A Survey on Bias and Fairness in Machine Learning." *ACM Computing Surveys*, 54(6), 1-35.
9. Obermeyer, Z., Powers, B., Vogeli, C., & Mullainathan, S. (2019). "Dissecting Racial Bias in an Algorithm Used to Manage the Health of Populations." *Science*, 366(6464), 447-453.
10. Salehi, Farhang. "The role of artificial intelligence in revolutionizing the agriculture industry in Canada." *Asian J. Res. Rev. Agric* 6.1 (2024): 70-78.
11. Wachter, S., Mittelstadt, B., & Floridi, L. (2017). "Why a Right to Explanation of Automated Decision-Making Does Not Exist in the General Data Protection Regulation." *International Data Privacy Law*, 7(2), 76-99.
12. Zetzsche, D. A., Buckley, R. P., & Arner, D. W. (2020). "The Evolution of Fintech: A New Post-Crisis Paradigm?" *University of Pennsylvania Journal of International Law*, 41(4), 1-45.