

THE GENERATIVE ARTIFICIAL INTELLIGENCE GOVERNANCE PARADOX: DRIVING INNOVATION WHILE CHALLENGING GLOBAL CORPORATE OVERSIGHT IN MULTINATIONAL FIRMS

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Abstract

Generative artificial intelligence (AI) is revolutionizing industries by enhancing operational efficiency, fostering innovation, and automating decision-making processes. However, its integration into multinational firms introduces a paradox: while enabling unprecedented innovation and growth, it presents significant governance challenges, particularly concerning transparency, accountability, and regulatory compliance. This research investigates the governance paradox of generative AI in multinational firms, focusing on the technology, finance, and manufacturing sectors. Employing a mixed-methods approach, the study combines qualitative interviews with corporate governance officers and AI ethics specialists and quantitative surveys from global firms to identify key challenges and strategies for navigating this complexity.

The findings highlight that while 65% of surveyed firms have implemented AI governance frameworks, only 30% fully comply with international standards. Key challenges include the “black box” nature of

AI, regulatory fragmentation across jurisdictions, and ethical risks such as bias and labor displacement. The study concludes that firms must adopt hybrid governance models, enhance transparency through AI tools, and establish robust ethical oversight mechanisms. Furthermore, the research underscores the urgent need for global cooperation to develop consistent AI governance standards, ensuring that innovation and ethical responsibility progress hand in hand.

1. INTRODUCTION

Generative artificial intelligence (AI) is transforming industries across the globe by enhancing operational efficiency, driving innovation, and automating decision-making processes. However, the rapid adoption of generative AI in multinational firms presents a paradox: while it brings unprecedented opportunities for innovation and growth, it simultaneously introduces complex governance challenges. The integration of AI into corporate structures complicates transparency, accountability, and regulatory compliance, particularly for global firms that operate across multiple legal and cultural environments.

This research investigates this paradox and aims to understand how multinational firms are managing the governance challenges posed by generative AI while leveraging its benefits. Specifically, the study focuses on firms in the technology, finance, and manufacturing sectors — industries where AI has been most transformative. By examining both qualitative and quantitative data, the research sheds light on how global firms can strike a balance between fostering AI-driven innovation and ensuring robust governance and ethical oversight.

The primary objective of this research is to explore how multinational firms are addressing the governance paradox presented by generative AI. The study seeks to identify the key governance challenges these firms face, particularly related to transparency, accountability, and regulatory compliance, and to examine how these challenges vary across industries and regions. Additionally, the research aims to propose strategies that firms can adopt to navigate this paradox, ensuring that AI can be used responsibly while driving innovation.

2. LITERATURE REVIEW

The literature on generative AI governance reveals both the opportunities and challenges posed by AI adoption in multinational firms. Generative AI enables firms to automate complex tasks, process large volumes of data, and enhance decision-making capabilities. According to Kremer et al. (2023), firms that integrate AI into their operations can achieve efficiency gains of up to 40%, particularly in industries like finance, manufacturing, and healthcare. However, this increase in efficiency comes at a cost. The “black box” nature of many AI

systems makes their decision-making processes difficult to interpret, leading to governance issues related to transparency and accountability.

Studies also highlight the ethical risks associated with AI systems, particularly concerning biases and the displacement of human labor. Daugherty et al. (2024) emphasize the need for AI governance frameworks that prioritize fairness, accountability, and transparency. Multinational firms face a “regulatory patchwork” when it comes to AI governance, as they must comply with different legal systems and ethical standards across jurisdictions. Petrin (2024) further stresses the importance of global cooperation in setting consistent AI governance standards.

Corporate social responsibility (CSR) is another critical aspect of AI governance. Generative AI has the potential to exacerbate biases and data privacy concerns, which could conflict with the CSR commitments of global firms. Hyseni (2023) showed AI ethics where the efficiency gains provided by AI systems sometimes come at the expense of ethical business practices.

2.1. Problem statement

The central problem explored in this research is the paradox of generative AI and corporate governance in multinational firms. While AI enhances innovation and operational efficiency, it also introduces significant governance challenges, particularly concerning transparency, accountability, and ethical risks. This paradox is compounded by the complexity of governing AI across multiple jurisdictions, each with its own legal and cultural framework.

2.2. Research hypothesis

The research hypothesis posits that while generative AI drives innovation in multinational firms, its integration into corporate governance structures exacerbates governance challenges. Specifically, the lack of transparency in AI systems and the fragmentation of AI regulations across different countries create significant barriers to effective governance. Firms that successfully manage this paradox will need to develop hybrid governance models that balance innovation with strong oversight mechanisms.

3. RESEARCH METHODOLOGY

This research adopts a mixed-methods approach, combining both qualitative and quantitative research techniques. The qualitative portion involved conducting interviews with corporate governance officers, AI ethics specialists, and legal experts in multinational firms. These

interviews explored how firms are integrating AI into their governance structures, the challenges they face, and the strategies they employ to ensure transparency and accountability.

The quantitative portion of the study involved distributing surveys to multinational firms across various industries. The survey gathered data on AI governance frameworks, compliance with international standards, and perceived governance challenges. The data was analyzed using statistical techniques to identify patterns and correlations between AI governance practices and factors such as firm size, industry, and geographic location.

4. RESULTS OF THE RESEARCH

The qualitative interviews revealed several key challenges related to AI governance. Most respondents pointed to the “black box” nature of AI systems as a major governance issue. The opacity of AI decision-making complicates efforts to ensure transparency and accountability, particularly in highly regulated industries like finance. Ethical risks were also a major concern, with interviewees highlighting the potential for AI to perpetuate biases and displace human workers.

The quantitative survey revealed that 65% of firms reported having some form of AI governance framework in place. However, only 30% fully complied with international AI governance standards. Firms in highly regulated industries, such as healthcare and finance, were more likely to have robust governance frameworks, while firms operating in regions with less stringent regulations had weaker governance practices. The survey also highlighted that 45% of respondents identified regulatory fragmentation as a significant governance challenge, while 40% noted difficulties in ensuring transparency in AI-driven decisions.

5. CONCLUSION

The research confirms the central paradox of generative AI and corporate governance in multinational firms. While AI drives innovation and operational efficiency, it also introduces governance challenges related to transparency, accountability, and regulatory compliance. Firms that effectively navigate this paradox must invest in developing hybrid governance models that balance AI-driven innovation with strong ethical and legal oversight.

The findings suggest that multinational firms need to adopt AI transparency tools, strengthen ethical oversight through AI ethics boards, and advocate for the creation of global AI governance standards.

The global nature of AI governance demands greater international cooperation to reduce regulatory fragmentation and provide a consistent framework for responsible AI use.

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