

DISSEMINATION OF KNOWLEDGE



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AI-Driven Strategic Decision-Making Models for Sustainable Organizational Growth

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Abstract

One transformative opportunity for sustainable organizational development is integrating Artificial Intelligence (AI) into strategic decision-making processes. This paper provides an examination of procedural models of strategic decision-making using AI models, focusing on how decision-making may be improved in terms of socialness, flexibility, and long-term performance. Organizations can use AI methods, such as machine learning, predictive analytics, and decision support systems to enhance decision-making in increasingly complex business environments. This paper will utilize a mixed-methods research design and include an empirical component of selected case studies and conceptual models. The findings indicate that AI informs the integration of strategic goals with sustainability goals, encompassing social, environmental, and economic elements throughout the decision-making process, in addition to supporting data-driven, real-time decision-making. The research showed governance, ethical application, and cross disciplinary integration had several facilitators and barriers to implementing the AI-supported decision-making frameworks. A theoretical framework is suggested to offer a scalable framework for organizations seeking to alter their sustainability level, and is offered to help with a better integration of AI into the strategy planning process. The results have practical implications for researchers, IT executives, and practitioners in the intersections of AI strategic management, and sustainable development.

Keywords: Predictive analytics; sustainable development; strategic decision making; artificial intelligence; organizational transformation; decision support systems.

Introduction

Trunk et al. (2020) noted that organizations base their longevity and growth upon strategic decision-making. Quite frankly, strategic decisions affect stakeholder engagement, product innovation, market positioning, and resource allocation. Decision-makers in either the private or public sector were guided primarily by their experience, their gut, or linear forecasting models until only a few decades ago when a new approach was introduced and more models formed. While these decision-making approaches may have been well suited to more stable conditions, advances in renewable resources, globalization, new technologies, climate change, and changing social expectations present a much more complex, dynamic and nonlinear world for decision-makers who must now rely more heavily on data-based models and flexible decision-making that also emphasize sustainability (Rajagopal et al., 2022).

Vudugula et al. (2023) observed that artificial intelligence presents a valuable opportunity to confront these issues. Through the utilization of machine learning, predictive analytics, and decision support systems, companies can analyze large data sets, identify trends that humans would not, and make predictions about the future that are more accurate than ever before (Kim & Seo, 2023). AI can fundamentally change strategic decision-making itself (as well as operational efficiencies) because sustainability can be seamlessly integrated into strategic processes, which supports managers in balancing profit with social and environmental responsibilities.

Zhao and Gómez Fariñas (2023) explained that this article explores how AI influenced decision-making models can contribute to organizational growth over the long-term. It presents the frameworks surrounding sustainability, theoretical models of decision-making, and the status of AI applications in management and engineering. This mixed-method study provides case examples from global firms, combined with conceptual modeling, to fully recognize the challenges to implementation that companies face while proposing a scalable conceptual framework that actually describes how one model of AI may support sustainable initiatives (Kulkov et al., 2024).

Literature Review

Strategic Decision-Making Theories

Badghish and Soomro (2024) identified one transformative opportunity for sustainable organizational development is integrating Artificial Intelligence (AI) into strategic decision-making processes. This paper provides an examination of procedural models of strategic decision-making using AI models, focusing on how decision-making may be improved in terms of socialness, flexibility, and long-term performance. Organizations can use AI methods, such as machine learning, predictive analytics, and decision support systems to enhance decision-making in increasingly complex business environments (Al-Surmi et al., 2022). This paper will utilize a mixed-methods research design and include an empirical component of selected case studies and conceptual models. The findings indicate that AI informs the integration of strategic goals with sustainability goals, encompassing social, environmental, and economic elements throughout the decision-making process, in addition to supporting data-driven, real-time decision-making (Stone et al., 2020).

AI in Management and Engineering

Artificial intelligence is becoming an important resource in engineering and management because of its support for activities such as supply chain optimization, customer analytics, financial forecasting, and predictive maintenance. By using machine learning and predictive analytics organizations can improve planning precision, automate processes, and predict risks (Olan et al., 2022). Bringing together AI's capacity to simulate scenarios, monitor in real-time, and continuously learn further improve organizational responsiveness and enhances decision-making (Keding, 2021).

Sustainability Frameworks

Lăzăroiu et al. (2022) explained that sustainability frameworks such as the UN Sustainable Development Goals, ESG measures, and Triple Bottom Line provide organizations with opportunities to connect corporate goals and society and environment obligations (Table 1). These approaches highlight that performance needs to be assessed in ways other than financial performance. AI enables organizations to integrate sustainability goals into their strategic and tactical decision-making process. AI does this by providing real-time data analysis, predictive modeling, and performance monitoring (Kitsios & Kamariotou, 2021).

Table 1. Key Sustainability Frameworks and Their Focus

Framework	Main Focus	Application in Organizations	Role of AI
Triple Bottom Line (TBL)	Economic, Environmental, and social performance	Encourages balance between profitability, environmental care, and social responsibility	Supports integrated reporting and analysis of impacts across all three dimensions
Environmental, Social, and Governance (ESG) Metrics	Performance indicators for responsible business practices	Used by investors, regulators, and stakeholders to assess organizational responsibility	AI enables automated ESG data collection, risk analysis, and compliance tracking
UN Sustainable Development Goals (SDGs)	17 global goals for sustainable development	Guides organizations in aligning strategies with global sustainability priorities	AI helps map organizational activities to specific SDGs and monitor progress

Gaps and Barriers

Strategic planning is facing continuous challenges to AI usage. In many cases, the effective implementation of AI is limited by issues of ethics, cultural resistance, and poor governance practices (Kar et al., 2021). Further, costs of adoption remain high for firms, especially smaller firms with limited resources, which means challenges remain for AI implementation in business strategy. In order to address these challenges, companies need to establish clear

governance, values, and a cultural environment that supports the effective use of AI to promote future growth (Singh & Goyal, 2023).

Methodology Design

In this study, Nica and Stehel (2021) used a mixed-methods approach taking a blend of empirical case study analysis and conceptual modeling together. The conceptual model brings in understandings from sustainability frameworks, AI implementations, and decision-making frameworks. The case study analysis can provide practical validations through analysis of organizations that have incorporated AI into their strategic planning (Figure 1).

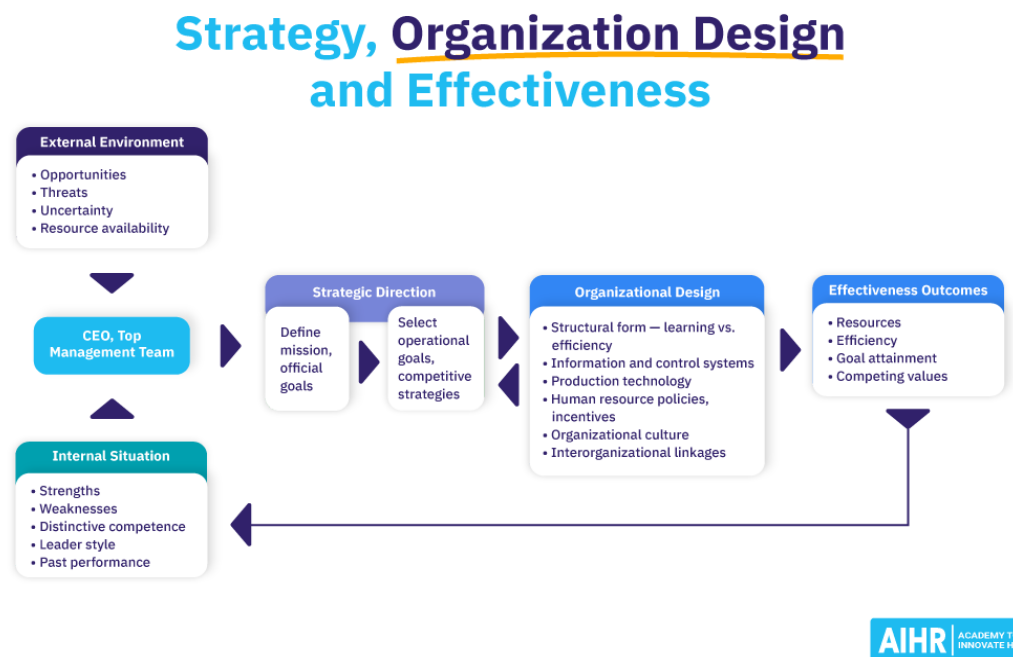


Figure 1. Framework of Strategy, Organizational Design, and Organizational Effectiveness

Data Collection

Peng et al. (2023) reported that data were drawn from industry analysis, academic studies, annual disclosures, and business sustainability reports completed between 2020 and 2025 (Goralski & Tan, 2020). Companies that represent consumer goods, energy, and technology have been utilized for the case study review for their advanced application of AI-led strategies (Paramesha et al., 2024).

Analysis

1. In what ways does AI enhance organizational agility and decision quality?

AI enhances decision quality through real-time data analysis, predictive modeling, and scenario testing, directing decision makers away from rationalized gut instinct and ignorance (Chang & Ke, 2024). AI enhances agility through the early identification of shifts in the environment and allows organizations to make rapid changes to operations and strategy; this increased agility in a volatile environment delivers increased competitiveness (Hong & Xiao, 2024).

2. In what ways does AI assist with embedding sustainability into strategy?

AI assists with foundation frameworks such as TBL, ESG, and the SDGs, operationalizing sustainability (Brendel et al., 2021). It enables organizations to assess social impacts more precisely, efficiency of resources, and emissions monitoring. AI will embed sustainability as a core of strategy, placing all insights into the plan (Rimon, 2024).

3. What are the key enablers and barriers to implementing AI-assisted decision-making frameworks?

Governance, a culture of innovation, and collaboration between strategy and technology teams are examples of enablers (Shaik et al., 2024). Culturally, organizations may experience resistance to the digital shift and face substantial implementation costs, while ethically, bias related to using AI may represent a barrier. Whether AI

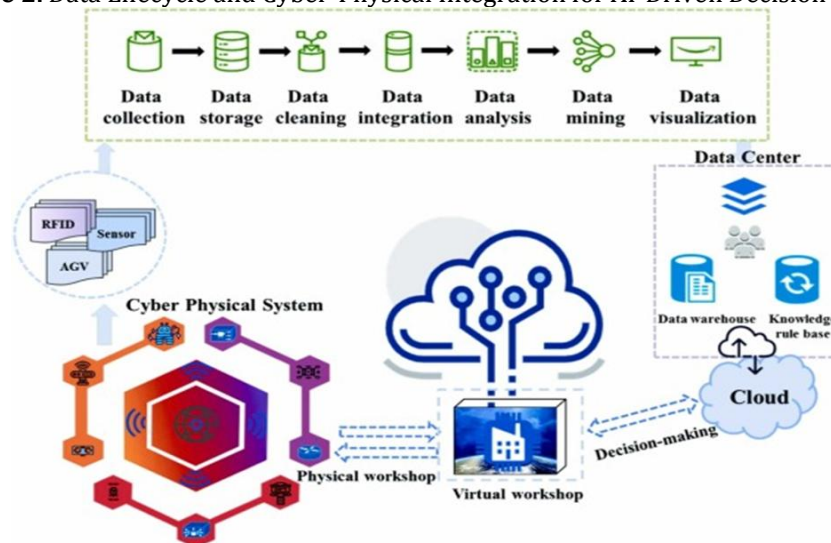
adoption will lead to sustainable growth is dependent on the relationship of these enablers and barriers (Belhadi et al., 2022).

Result

Improving Decision Quality and Agility

This study indicates that by delivering real-time insights from large and complicated datasets, AI-based models facilitate better quality decisions. In the field of IT, AI-enabled sustainability calculators enable organizations to monitor emissions tracking, assess energy consumption, and initiate changes to operations to reach environmental targets (Dicuonzo et al., 2023). Predictive maintenance solutions have improved the efficiency with which renewable energy installations are serviced, minimizing downtime and increasing reliability in the energy field (Figure). These examples demonstrate how AI improves an organization's agility to provide a quick response to external shocks while monitoring the universe beyond that (Truby, 2020).

Figure 2. Data Lifecycle and Cyber-Physical Integration for AI-Driven Decision-Making



Aligning Strategic Objectives with Sustainability Goals

Wilson and van der Velden (2022) noted that AI has started to provide an avenue for directly incorporating sustainability into decision-making (Figure 3). For example, multinational consumer goods companies have started implementing AI-based logistics optimization to reduce shipping waste and improve resource efficiency.

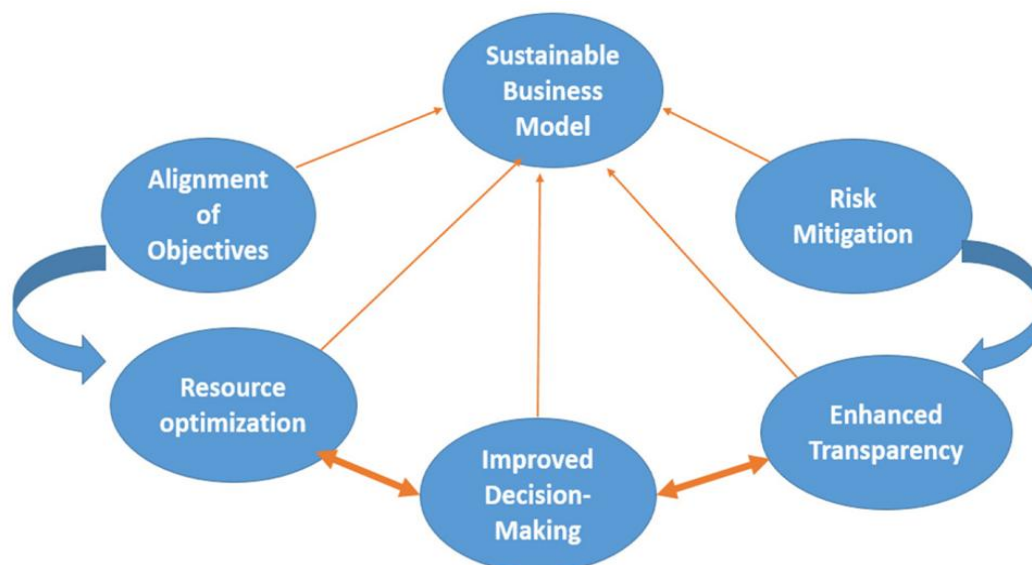


Figure 3. Key Drivers of a Sustainable Business Model through AI-Enabled Strategic Decision-Making

Overall, this aligns business practices to broader sustainability targets like clean energy and responsible consumption (D'Amore et al., 2022). AI provides organizations with tools to both evaluate the trade-offs between sustainability and profit, as well as create well-informed decisions that ultimately help to ensure long-term resilience, through forecasts and simulations of a whole set of norms (Jarrahi et al., 2023).

Critical Enablers

Three enablers were identified as important for adoption:

- governance regimes that established ethical norms, accountability, and transparency;
- organizational cultures that foster creativity and build trust in AI systems;
- cross-functional integration (openness to collaboration between strategic planning, sustainability and IT),

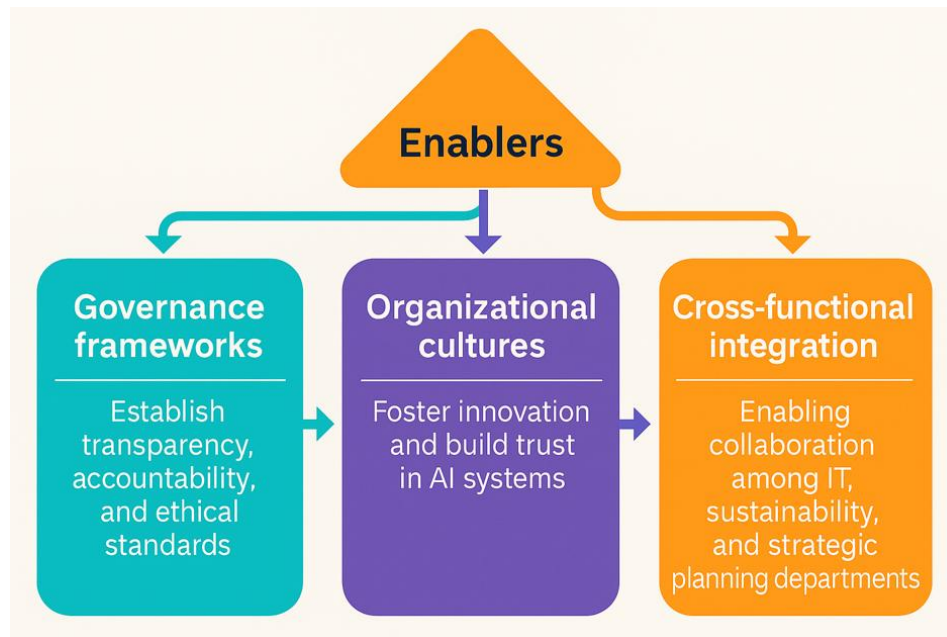


Figure 5. Key Enablers for Effective Implementation of AI-Driven Strategic Decision-Making Models

These enablers assure that AI insights are generated and applied in a manner that is consonant with the company's values and sustainability commitments (Tsoulakis et al., 2023).

Barriers to Adoption

Martini et al. (2024) noted that barriers still exist. The credibility of AI-based models continues to be undermined by algorithmic bias, including in areas such as social impact evaluation and talent management (Figure 5). Beyond the affordability challenges that limit small businesses' adoption of sophisticated AI technologies, resistance is also evident among employees and leaders, either because of limited awareness or fear of losing control over their own decision-making (Bogachov et al., 2020). Finally, business adoption of AI is hampered by uncertainty surrounding laws governing intellectual property and data ownership (Michael, 2025).

A similar dynamic has been documented in other data-driven adoption settings: resistance to shifting from intuition-based to evidence-based decisions among senior staff, compounded by persistent skill gaps, has been identified as a comparable barrier to sustained analytics adoption in higher education institutions Chin et al. (2026), often traced to insufficient structured training in using new digital tools Chin et al. (2026).

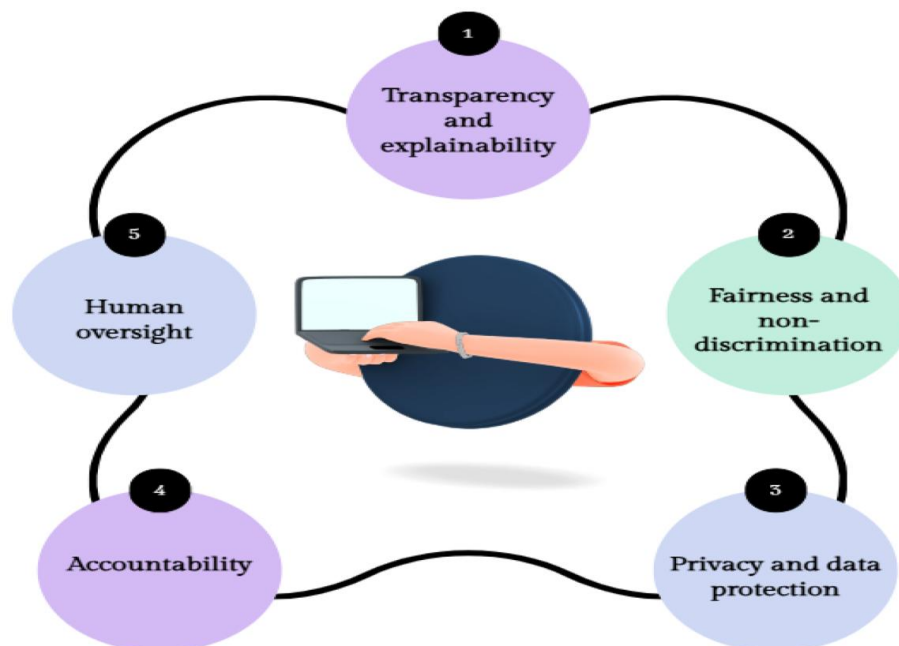


Figure 6 . Ethical and Governance Principles for Responsible AI Deployment

Conceptual Framework

From the proposed conceptual framework, AI is considered a meta-capability embedded in the strategic decision-making processes. The four key components are:

- **Input:** Market and stakeholder information, ESG metrics, and organizational data.
- **AI Processing Layer:** Decision making tools, machine learning and predictive analytics that generate insights and predict outcomes.
- **Decision functions:** AI-based intelligence-assisted resources transformations, opportunity-taking, and strategic sensing.
- **Outcomes:** Enhanced decision-making, greater organizational adaptability, and alignment to sustainability objectives.

The framework emphasizes that organizational culture and governance play a mediating role in whether AI adoption has any lasting impacts. The modular nature of the framework allows for scalability from small to large and flexibility from industry to industry.

Discussion

Theoretical Implications

Gupta et al. (2022) explained that the research expands the domain of decision-making theories by conceptualizing AI as a tool that enhances dynamic capacities and mitigates bounded rationality. AI lessens cognitive and information constraints, allowing firms to take more rational evidence-based solutions in contingent contexts. Additionally, in terms of organizational agility theories, it enhances one's ability to take in changes in the environment and address them (Abrokwah-Larbi & Awuku-Larbi, 2024).

Practical Implications

Oluoha et al. (2022) stressed the need to reframe AI as an adviser, not in place of human thought. Managers must develop governance structures, in addition to investing in ethical AI and establishing an innovative culture. Extensive training and collaboration across divisions are vital to ensuring AI-provided recommendations are integrated into decision-making processes (Wang et al., 2023). AI provides tools to improve the systems in operation and engineering aspects that would additionally help achieve an overall sustainability plan.

Alignment with Sustainability Strategies

Richey et al. (2023) found that the triple bottom line and ESG goals are explicitly supported when AI is incorporated into strategic decision-making. Integrating sustainability criteria into the decision-making process allows businesses to balance between profitability and their societal and environmental responsibilities. In

markets where sustainability issues are becoming increasingly relevant, this alignment enhances resilience, attracts investment, and increases organizations' legitimacy (Di Vaio et al., 2020).

Conclusion

This study demonstrates that AI-driven strategic decision-making models significantly enhance decision quality, speed, and sustainability alignment. Drawing on examples from consumer products, energy, and technology, the findings show how AI enables organizations to operationalize sustainability goals while strengthening competitiveness. Key facilitators of successful adoption include cross-functional collaboration, organizational culture, and governance structures, whereas major barriers remain in the areas of ethical challenges, implementation costs, and resistance to change. To address these challenges, a conceptual model has been introduced to guide firms in scaling AI-driven decision-making frameworks for sustainable growth.

Despite these contributions, the study has certain limitations. It relies primarily on conceptual modeling and secondary case data, which, while theoretically robust, require validation through primary field research and cross-industry analysis. Empirical testing is necessary to confirm the adaptability and effectiveness of the proposed framework in diverse organizational contexts.

Looking ahead, future research should focus on longitudinal assessments to evaluate the long-term implications of AI-driven strategies for organizational sustainability. Comparative studies between small and large firms could highlight differences in adoption patterns and resource capabilities, providing richer insights into scaling challenges. Moreover, advancing the ethical integration of AI into strategic planning will require interdisciplinary collaboration among management researchers, ethicists, and engineers to ensure that technological innovation aligns with social responsibility.

List of abbreviations

- **AI** – Artificial Intelligence
- **ML** – Machine Learning
- **DSS** – Decision Support Systems
- **NLP** – Natural Language Processing
- **ESG** – Environmental, Social, and Governance
- **TBL** – Triple Bottom Line
- **SDGs** – Sustainable Development Goals
- **CSR** – Corporate Social Responsibility
- **KPI** – Key Performance Indicator
- **SME** – Small and Medium-sized Enterprises
- **ROI** – Return on Investment
- **IoT** – Internet of Things
- **BI** – Business Intelligence
- **ERP** – Enterprise Resource Planning
- **GDP** – Gross Domestic Product

Author Contributions

Alongside an extensive literature search, a methodology design, case study analysis and conceptual framework, the author was responsible for the origin, design, and development of the study. Moreover, the author completed the preparation, review, and submission of the manuscript.

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Data Availability Statement

The documentations used to inform the study's conclusions were based on public sources, including industry studies, academic articles, annual reports, and sustainability reports. No proprietary or privately held information was used.

Conflicts of Interest

The author declares no conflicts of interest relevant to the content of this article.

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