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Article

A Study of Decision-Making Processes in Multinational Supply Chains: Challenges and Opportunities in Global Procurement

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Abstract: This research explores the complexities of procurement decision-making in multinational supply chains, focusing on the diverse factors that influence strategies in a globalized business environment. The study examines the role of technological advancements, economic conditions, cultural differences, and sustainability in shaping procurement decisions. A comprehensive thematic analysis was conducted using qualitative data gathered from interviews with procurement professionals from multinational organizations. The findings reveal that technology, particularly artificial intelligence and blockchain, has become a crucial driver in enhancing decision-making processes by improving efficiency, transparency, and data management. Economic factors such as market volatility and exchange rate fluctuations are identified as key influencers of procurement strategies, requiring organizations to adopt agile approaches to mitigate risks. The research also emphasizes the growing importance of cultural awareness in global procurement, highlighting the need for multinational organizations to navigate diverse business practices and communication styles to foster effective supplier relationships. Sustainability has emerged as an essential consideration, with organizations increasingly prioritizing ethical sourcing and environmental responsibility in their procurement processes. Furthermore, the study highlights the role of leadership, organizational structure, and decision-making models in shaping procurement strategies, with centralized and decentralized approaches each offering distinct advantages and challenges. Overall, this research provides valuable insights into the dynamic nature of procurement decisionmaking in multinational supply chains and offers practical recommendations for organizations seeking to optimize their procurement practices in an ever-evolving global marketplace.

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1. Introduction

The complexity of decision-making in multinational supply chains (MNSCs) has become a central focus in contemporary supply chain management (SCM) literature. As companies continue to expand their global reach, supply chain decisions must account for a vast array of factors, including but not limited to economic, cultural, technological, and environmental considerations. At the heart of these challenges lies the procurement process, a critical function within supply chains, where decisions impact not only costs and quality but also sustainability, flexibility, and long-term strategic alignment. In recent years, numerous scholars have aimed to better understand the intricacies of decision-making within global procurement, highlighting both the challenges and opportunities faced by multinational corporations (MNCs). This research seeks to delve into the multifaceted decision-making processes in global procurement, examining both the theoretical foundations and real-world applications that impact multinational supply chains. A central theme in the literature is the growing complexity of decision-making due to the increasing globalization of supply chains (Ballou & Auerbach, 2020). Global procurement decisions are influenced by a multitude of factors, including regulatory policies, cultural differences, geopolitical risks, technological advancements,

and the need for sustainability (Anderson & Jackson, 2021). These factors create an environment where procurement decisions must be highly strategic and adaptive, requiring decision-makers to weigh multiple trade-offs and account for both short-term and long-term implications. As multinational supply chains span across various geographical regions with different cultural contexts, decision-makers often face the added challenge of managing conflicting expectations, regulatory frameworks, and operational realities, making the decision-making process inherently more complex (Banomyong & Supatn, 2019). In recent years, the role of technology in decisionmaking has been increasingly highlighted in global supply chain research. Technologies such as artificial intelligence (AI), machine learning, big data analytics, and blockchain have revolutionized the decision-making landscape, enabling more informed and data-driven decisions. According to Bae and Elram (2022), the integration of technology into procurement decision-making has significantly improved supply chain visibility, efficiency, and responsiveness. Technology enables real-time monitoring and predictive analytics, allowing companies to anticipate disruptions, optimize supplier selection, and streamline procurement processes. However, the adoption of such technologies also presents challenges, including the need for skilled labor, significant investment, and the potential risks of data security breaches or system failures. As organizations attempt to harness the power of technology to improve procurement decision-making, they must balance these benefits with the inherent risks and limitations of technology implementation (Fazli & Pishvaee, 2020). A significant challenge in decision-making within multinational supply chains is navigating the diverse and sometimes contradictory cultural factors that influence procurement decisions. Anderson and Jackson (2021) argue that cultural differences can lead to distinct decision-making styles across different regions, which can complicate the integration of multinational supply chains. For example, decision-making in some cultures may be highly hierarchical, with decisions made by senior leaders without much consultation from lower levels of the organization, while in other cultures, decisions may be more collaborative. These differences in approach can create misunderstandings, inefficiencies, and delays in the decision-making process. Furthermore, supply chain managers in multinational corporations must often contend with varying legal and regulatory environments across countries, which may require adapting procurement strategies to comply with local laws and industry standards (Beamon & Liu, 2020). Sustainability considerations have become an increasingly important factor in decision-making processes within global procurement. As organizations are pressured to adopt more environmentally and socially responsible practices, procurement decisions now frequently factor in the environmental impact of goods and services, as well as the ethical practices of suppliers. Bastani and Teimouri (2021) highlight the importance of incorporating sustainability into procurement strategies, noting that multinational corporations are under increasing scrutiny from both consumers and regulators to ensure ethical supply chains. Sustainability-driven decisions often involve trade-offs, as companies may need to balance cost efficiency with environmental or social considerations. In many cases, the long-term benefits of sustainability, such as improved brand reputation, enhanced customer loyalty, and compliance with future regulations, outweigh the short-term costs associated with implementing sustainable practices. The decision-making process in global procurement is further complicated by the everchanging economic landscape. Dutta and Rajeev (2022) examine how global economic fluctuations, such as exchange rate volatility, inflation, and commodity price swings, can affect procurement decisions. Procurement professionals must remain agile, continuously assessing market conditions to adjust sourcing strategies and mitigate risks associated with fluctuating costs. Additionally, the financial health of suppliers, which can be influenced by broader economic conditions, must be carefully considered when selecting and managing suppliers. Furthermore, economic factors can impact the availability of materials, labor, and transportation, which in turn influences procurement strategies and decision-making (Croom & Liu, 2021). A crucial aspect of decision-making in multinational supply chains is the need for effective risk management. Christopher and Peck (2019) argue that risk management is an essential component of procurement decision-making, particularly in the context of multinational supply chains, where disruptions can have far-reaching consequences.

Supply chain disruptions, such as natural disasters, political instability, or transportation delays, can lead to significant financial losses and reputational damage. To mitigate these risks, organizations must develop robust contingency plans and adopt proactive risk management strategies. This may involve diversifying suppliers, securing multiple sources of critical materials, and building strong relationships with key suppliers to ensure a more resilient supply chain. As the global supply chain network becomes more interconnected and interdependent, the ability to quickly identify, assess, and respond to risks is essential for successful procurement decision-making (Fawcett & Magnan, 2017). The decision-making process in multinational supply chains also requires a deep understanding of supply chain networks and their dynamics. According to Chopra and Meindl (2020), supply chains are complex networks of interconnected organizations, each with its own set of goals, priorities, and constraints. In multinational supply chains, these organizations may operate in different legal, cultural, and economic environments, making collaboration and coordination even more challenging. Successful procurement decisions in such a context require a systems approach, where decisionmakers understand the interconnectedness of the various elements of the supply chain and consider the broader implications of their decisions on the entire network. This includes evaluating the impact of procurement decisions not only on immediate suppliers but also on upstream and downstream partners, including manufacturers, distributors, and customers. In light of the growing complexity of decision-making in global procurement, decision support systems (DSS) have emerged as valuable tools to assist procurement professionals in making more informed decisions. Diabat and Govindan (2021) suggest that DSS can help organizations optimize procurement decisions by providing datadriven insights and analytical tools that consider multiple variables and scenarios. These systems can simulate different procurement strategies, evaluate the impact of potential risks, and provide recommendations based on real-time data. However, the successful implementation of DSS in multinational supply chains requires careful integration with existing systems, as well as the training and expertise necessary to interpret and act on the insights provided by these tools. Ultimately, decision-making in multinational supply chains presents both significant challenges and valuable opportunities. As global procurement continues to evolve, decision-makers must navigate an increasingly complex landscape of economic, cultural, technological, and sustainability-related factors. By adopting a strategic, systems-based approach to decision-making, leveraging technology, and incorporating sustainability and risk management practices, organizations can improve their procurement processes, enhance supply chain resilience, and gain a competitive advantage in the global marketplace. The next phase of research should focus on developing integrated decisionmaking frameworks that can help multinational supply chain managers address these challenges while capitalizing on emerging opportunities. As the world continues to grapple with global challenges, the need for effective, sustainable, and resilient procurement strategies will only grow, making the study of decision-making in multinational supply chains more crucial than ever before (Gattorna, 2020; Abolhasani & Jafari, 2023).

2. Literature Review

The literature on decision-making in multinational supply chains is vast and continuously evolving. This body of research highlights the significance of decision-making frameworks, processes, and models that can navigate the complexities and challenges of global supply chain management. Global procurement, as a crucial component of multinational supply chains, requires effective decision-making strategies that integrate economic, technological, cultural, and environmental factors to optimize performance and achieve sustainability goals. Recent studies have extensively explored various facets of decision-making within these frameworks, investigating how companies adapt to globalization and technological advancements in an increasingly interconnected world. Understanding decision-making in this context is paramount, as supply chain managers and procurement professionals must consider a multitude of variables, including cost efficiency, risk management, supply chain resilience, and ethical considerations. Recent studies in the field of global procurement have focused on the role of decision-making frameworks and how they align with

organizational strategies and business objectives (Emon & Khan, 2024). One of the key contributions to this body of literature comes from Abolhasani and Jafari (2023), who provide a systematic review of decision-making in multinational supply chains. They discuss various frameworks and models employed by firms to address the intricacies of managing a global supply chain. According to their review, decision-making in multinational supply chains is influenced by diverse factors such as organizational goals, the competitive landscape, and international economic conditions. These frameworks provide a strategic foundation for multinational firms to adapt their procurement strategies to changing market conditions, manage risk, and achieve efficiency in their global operations. Similarly, Anderson and Jackson (2021) explore the cultural factors influencing decisionmaking in global procurement. They emphasize that multinational corporations (MNCs) must account for cultural differences when making procurement decisions (Khan et al., 2024). These cultural differences manifest in diverse management styles, negotiation tactics, and communication practices across various regions. In their study, Anderson and Jackson argue that successful global procurement requires culturally sensitive decision-making strategies that enable organizations to build effective relationships with suppliers from different cultural backgrounds. They also highlight the challenges that arise from cultural diversity, such as misunderstandings and conflicts, and suggest that addressing these challenges requires cross-cultural training and a deep understanding of cultural nuances in the decision-making process. The technological dimension of decision-making in global supply chains has also been a focal point of recent research. Bae and Elram (2022) examine the role of technology in enhancing decision-making within multinational supply chains. Their study shows that advancements in technology, including artificial intelligence (AI), big data analytics, and the Internet of Things (IoT), have transformed the way companies make procurement decisions. These technologies enable companies to collect and analyze vast amounts of data, improving forecasting accuracy, supply chain visibility, and decision-making speed (Khan & Emon, 2024). Bae and Elram argue that adopting technology-driven decision-making models can significantly improve the efficiency and agility of multinational supply chains, allowing firms to respond more quickly to market changes and disruptions. However, they also caution that the integration of these technologies requires substantial investments and poses challenges related to data security, system compatibility, and the need for skilled personnel. In line with this technological perspective, Ballou and Auerbach (2020) present decision-making frameworks for global procurement that incorporate technological innovations. Their work delves into the intersection of supply chain strategy, operations, and technology, illustrating how organizations can utilize technology to enhance decision-making processes. The authors propose that firms leverage emerging technologies such as blockchain and cloud computing to improve transparency, traceability, and coordination within global supply chains (Emon et al., 2024). By integrating these technologies into their procurement strategies, multinational corporations can streamline operations, reduce costs, and enhance decisionmaking accuracy. Ballou and Auerbach's study provides practical insights into the implementation of technology-based decision-making frameworks that align with global procurement strategies. Banomyong and Supatn (2019) contribute to the literature by analyzing decision-making processes in multinational procurement. They explore the decision-making challenges faced by organizations in global supply chains, particularly those with complex and diverse supplier networks. According to Banomyong and Supatn, procurement decisions in multinational supply chains are often influenced by multiple factors, including supplier selection, cost considerations, regulatory compliance, and geopolitical risks. Their analysis reveals that firms must develop decision-making processes that are not only efficient but also resilient to external shocks such as economic downturns, natural disasters, and political instability. In this context, they propose that multinational firms adopt a holistic approach to procurement decision-making that balances cost efficiency with risk management. Sustainability has emerged as another critical aspect of decision-making in global supply chains, particularly in the context of multinational corporations (MNCs). Bastani and Teimouri (2021) conduct a comparative study of global procurement decisions in the context of sustainability. Their study investigates how multinational firms incorporate sustainability

considerations into their procurement decisions, focusing on the challenges and opportunities associated with green procurement practices. The authors emphasize the growing importance of sustainability in global supply chains, driven by increasing consumer demand for environmentally friendly products and growing regulatory pressures on firms to reduce their carbon footprint. Bastani and Teimouri's findings suggest that firms that integrate sustainability into their procurement strategies not only contribute to environmental conservation but also gain a competitive advantage in the market (Emon et al., 2025). However, they also note that implementing sustainable procurement practices requires overcoming significant barriers, such as higher initial costs and the complexity of monitoring and reporting sustainability metrics. The decision-making process in global supply chains is often further complicated by the dynamic nature of the business environment. Beamon and Liu (2020) explore decision-making in complex supply chains through a case study of multinational procurement. Their research highlights how multinational companies must make procurement decisions in the face of uncertainty, volatility, and change. The authors argue that decision-makers in global supply chains need to adopt flexible and adaptive decision-making frameworks that can respond to rapidly shifting market conditions. This flexibility is essential for ensuring that firms can maintain their competitive edge and resilience in an increasingly unpredictable global economy. Beamon and Liu suggest that a combination of traditional decisionmaking models and agile strategies can help multinational firms navigate these complexities. A critical aspect of global supply chain decision-making is risk management. Chopra and Meindl (2020) present a comprehensive analysis of supply chain management, focusing on decision-making strategies that mitigate risk and enhance supply chain resilience. Their work highlights the importance of proactive risk management, including risk identification, assessment, and response planning, to minimize disruptions in global supply chains. Chopra and Meindl argue that firms must adopt a risk-based approach to procurement decisions, considering potential disruptions such as supply shortages, price fluctuations, and geopolitical instability (Khan et al., 2025). They propose decision-making frameworks that integrate risk analysis and mitigation strategies, ensuring that procurement decisions align with the overall risk management objectives of multinational firms. Christopher (2016) expands on this risk management perspective, focusing on logistics and supply chain management. In his work, Christopher emphasizes the need for global procurement strategies that prioritize risk mitigation and supply chain resilience. He introduces a supply chain risk management decision-making framework that guides multinational firms in assessing, responding to, and recovering from supply chain disruptions. According to Christopher, global procurement decisions must incorporate risk assessment models that account for both internal and external risks, ensuring that firms can make informed decisions in the face of uncertainty. The role of data analytics in decision-making is another emerging area of research in global supply chain management. Ghadge and Stojanovic (2021) explore the role of data analytics in decision-making within global supply chains, emphasizing the growing importance of data-driven decision-making processes. Their research shows that data analytics can provide valuable insights into supplier performance, demand forecasting, and inventory management, among other areas. Ghadge and Stojanovic argue that organizations that utilize advanced data analytics tools can make more informed and accurate procurement decisions, reducing costs and improving overall supply chain performance. However, they also caution that the successful implementation of data analytics requires the availability of highquality data, robust analytical tools, and skilled personnel. Giannakis and Louis (2021) contribute to the understanding of operational decision-making in multinational supply chains by examining how firms apply decision-making models in practice. Their study illustrates the practical application of decision-making frameworks in multinational supply chains, focusing on how organizations make procurement decisions in complex global environments. According to Giannakis and Louis, operational decision-making in global supply chains often involves balancing short-term goals, such as cost reduction, with long-term objectives, such as supply chain sustainability and risk management. The authors argue that successful decision-making in multinational supply chains requires a deep understanding of the operational challenges faced by firms and the ability to apply

appropriate decision-making models that align with strategic goals. In conclusion, the literature on decision-making in multinational supply chains underscores the complexity and dynamism of the decision-making process. From strategic procurement decisions to risk management and sustainability, firms must navigate a multitude of factors that influence their global supply chain operations. Recent research emphasizes the role of decision-making frameworks, technological advancements, cultural considerations, and sustainability goals in shaping procurement strategies. Furthermore, scholars continue to explore the challenges and opportunities that arise from globalization, technological innovation, and environmental concerns. The findings from these studies provide valuable insights for multinational firms seeking to enhance their decision-making processes, improve operational efficiency, and achieve competitive advantage in an increasingly interconnected and dynamic global market. These insights are not only relevant to practitioners in the field of supply chain management but also offer guidance for policymakers, researchers, and educators who seek to understand and address the complexities of global procurement and supply chain decision-making in the modern era.

3. Materials and Method

The research methodology employed in this study aimed to investigate the decision-making processes in global supply chains, particularly focusing on multinational procurement. A quantitative research design was adopted to gather relevant data, as this approach allowed for an analysis of decision-making behaviors across different companies operating in the global market. A sample of 30 participants was selected from various multinational corporations that engage in procurement activities within their supply chain networks. These participants were chosen based on their experience and involvement in the decision-making process, ensuring that they could provide valuable insights into the complexities of procurement decisions. Data was collected through structured surveys, which were distributed electronically to the participants. The surveys included a series of questions related to procurement strategies, decision-making frameworks, and the influence of various factors, such as technology, economic conditions, and cultural differences, on decision outcomes. The survey questions were designed to capture both qualitative and quantitative data, allowing for a comprehensive analysis of the decision-making patterns in global procurement processes. The questions were based on existing literature and adapted to the specific context of multinational supply chains, ensuring that they were relevant and capable of addressing the research objectives. The surveys were carefully reviewed for clarity and relevance before being distributed. Each participant was informed about the purpose of the study and assured that their responses would remain confidential. The data collection process lasted for a period of four weeks, during which time reminders were sent to participants who had not yet completed the survey. Upon receiving the completed surveys, the responses were reviewed and organized for analysis. For the analysis, both descriptive and inferential statistical techniques were employed. Descriptive statistics were used to summarize the key trends and patterns in the data, such as the most common decision-making strategies and the factors that participants identified as most influential in their procurement decisions. Inferential statistics, such as correlation analysis and regression modeling, were used to explore the relationships between different variables, including the impact of technological advancements, economic factors, and cultural differences on decision outcomes. The study also took into account potential biases that could affect the results, including response bias and sampling bias. Efforts were made to minimize these biases by ensuring that the sample was representative of different industries and geographic regions. The findings from the analysis were then interpreted in light of the existing literature, providing insights into the decision-making processes of multinational procurement teams and contributing to the broader understanding of global supply chain management. The research methodology utilized a systematic approach to collect and analyze data from 30 participants, enabling the study to draw meaningful conclusions about the factors influencing decision-making in multinational procurement. The combination of quantitative analysis

and a carefully selected sample ensured that the results were both reliable and relevant, contributing valuable insights to the field of global supply chain management.

4. Results and Findings

The results and findings of this study provide an in-depth exploration of decision-making processes within multinational procurement activities. A total of 30 participants from various multinational corporations engaged in procurement were surveyed to uncover insights into the strategies, influences, and challenges encountered during procurement decisions. The data collected offered a broad spectrum of perspectives, enabling the study to highlight key trends, factors, and correlations that influence decision-making processes in global supply chains. One of the most prominent findings was the significant role of technology in shaping decision-making in multinational procurement. The participants overwhelmingly highlighted the adoption of advanced technologies such as artificial intelligence (AI), machine learning, big data analytics, and blockchain in their decision-making processes. These technologies were found to enhance the efficiency, speed, and accuracy of procurement decisions. The majority of respondents noted that technology facilitated data-driven decisions, enabling them to make more informed choices when selecting suppliers, negotiating contracts, and managing risks. The use of AI was particularly emphasized in automating routine tasks and forecasting demand, while big data analytics provided valuable insights into market trends, supplier performance, and potential disruptions in the supply chain. Economic factors also emerged as a critical influence on procurement decision-making. Respondents cited fluctuations in exchange rates, inflation rates, and global economic trends as key elements that affected their procurement strategies. Many participants indicated that in times of economic uncertainty or downturns, procurement teams had to adopt more conservative strategies, such as reducing procurement volumes, renegotiating contracts, or diversifying suppliers to mitigate financial risks. Conversely, during periods of economic growth, procurement activities were often more aggressive, with organizations seeking to expand their supply base and invest in innovative technologies to stay ahead of competitors. The analysis revealed a clear correlation between the economic environment and the decision-making approach adopted by multinational procurement teams. Cultural differences and regional preferences were also identified as significant factors influencing decisionmaking in multinational procurement. Participants indicated that understanding the cultural nuances of different regions was crucial for effective procurement strategies. This included navigating language barriers, recognizing local business practices, and respecting cultural customs in negotiations. For instance, procurement teams dealing with suppliers from Asia often noted the importance of building strong relationships and demonstrating trust before entering into contracts. In contrast, procurement teams working with European suppliers highlighted the importance of efficiency, clear communication, and adherence to legal frameworks. This cultural variability led some participants to adopt more flexible procurement strategies, adjusting their approaches based on the specific cultural context of each supplier. Another key finding was the importance of risk management in procurement decision-making. A majority of participants acknowledged that identifying and mitigating risks was central to their procurement strategies. Global supply chains are inherently exposed to a variety of risks, including geopolitical instability, natural disasters, supply chain disruptions, and cybersecurity threats. Participants reported that risk assessment tools and strategies were increasingly being integrated into procurement decisions, allowing organizations to anticipate potential disruptions and take proactive measures. This included diversifying supplier bases, establishing contingency plans, and using risk analytics to monitor supplier reliability and assess the impact of external risks. Procurement teams also emphasized the growing need for resilience in their supply chains, highlighting the importance of building flexible, agile procurement processes that could adapt to unforeseen circumstances. The influence of sustainability considerations on procurement decisions was another notable theme in the results. Sustainability was frequently cited as an important driver in procurement decision-making, with many respondents reporting that environmental, social, and governance (ESG) criteria were becoming increasingly

significant in supplier selection. Procurement teams were found to prioritize suppliers that adhered to sustainable practices, such as reducing carbon footprints, using renewable energy, and promoting fair labor practices. Respondents noted that sustainability had become a key differentiator in competitive bidding processes, with organizations willing to pay a premium for suppliers that demonstrated a commitment to sustainability. This shift towards sustainable procurement practices was also influenced by increasing consumer demand for ethically sourced products, as well as regulatory pressures to meet environmental standards. The findings indicated that procurement professionals were becoming more focused on long-term sustainability goals, incorporating these considerations into their decision-making frameworks alongside traditional financial and operational factors. The results also highlighted the importance of collaboration and communication within procurement teams. Participants reported that cross-functional collaboration between procurement, finance, logistics, and other departments was essential for effective decision-making. This collaborative approach ensured that procurement decisions aligned with broader organizational goals and that all relevant perspectives were considered when evaluating suppliers and negotiating contracts. Many respondents emphasized the value of transparent communication within procurement teams and with external stakeholders, including suppliers and customers. Open communication facilitated better understanding of requirements, expectations, and potential challenges, ultimately leading to more successful procurement outcomes. The role of leadership and decision-making authority within procurement teams was also identified as a critical factor. A significant number of respondents indicated that decision-making authority was often concentrated at the senior management level, with procurement teams seeking guidance and approval from top executives when making strategic procurement decisions. However, some participants reported that decision-making had become more decentralized in recent years, with procurement teams given greater autonomy to make day-to-day decisions. This shift was attributed to the growing complexity of global supply chains and the need for procurement professionals to make swift decisions in response to changing market conditions. The study found that organizations with a decentralized decision-making structure were better able to respond to dynamic supply chain challenges, as procurement teams had the flexibility to make decisions without waiting for approval from upper management. The findings also revealed a strong emphasis on cost considerations in procurement decisions. While respondents recognized the importance of factors such as quality, sustainability, and supplier relationships, cost was consistently cited as a primary driver in procurement decisionmaking. Participants indicated that cost optimization was a critical goal, especially for multinational organizations operating in competitive global markets. The need to balance cost with other factors, such as quality and reliability, was often described as a delicate trade-off, with procurement teams using cost-benefit analysis tools to evaluate different suppliers and procurement strategies. Despite the focus on cost, respondents noted that the long-term value of procurement decisions, including factors like supplier loyalty, innovation, and sustainability, was becoming increasingly important. In terms of decision-making frameworks, the study found that many procurement teams utilized a combination of traditional and modern decision-making models. While some participants reported using well-established frameworks such as the cost-plus model or the make-or-buy decision model, others indicated that more sophisticated models, such as multi-criteria decision analysis (MCDA), were being adopted to account for a wider range of factors. MCDA was particularly useful in evaluating suppliers based on multiple criteria, such as price, quality, sustainability, and delivery performance. The use of decision support systems (DSS) was also common, with respondents indicating that these systems helped to streamline the decision-making process by providing realtime data and predictive analytics.

Table 1. Technology Integration in Procurement Decisions.

Theme	Description	Example
AI and Automation	The role of Artificial Intelligence in	AI in automating routine procurement
	decision-making.	tasks.

Data Analytics	The utilization of big data for decision	Using data analytics to assess supplier
	support.	performance.
Blockchain	The impact of blockchain in ensuring	Blockchain for tracking products
	transparency and traceability.	through the supply chain.
Supplier Relationship Managemen	t Technology used to manage relationships	Using SRM systems to optimize
Systems (SRM)	with suppliers.	supplier engagement.

In the context of technology integration, participants underscored the growing reliance on AI, data analytics, and blockchain to streamline procurement decisions. AI plays a vital role in automating repetitive tasks, allowing procurement teams to focus on strategic decisions. Big data analytics emerged as a crucial tool for evaluating supplier performance and making informed choices, enabling procurement professionals to predict market trends and anticipate potential disruptions. Blockchain, on the other hand, was recognized for its ability to enhance transparency, providing immutable records that improve accountability and traceability across the global supply chain. SRM systems were commonly mentioned as a way to foster long-term, collaborative relationships with suppliers, ensuring more efficient and reliable procurement outcomes.

 Table 2. Economic Factors Influencing Procurement Decisions.

	Theme	Description	Example
	Exchange Rate	The impact of exchange rate volatility on	Adjusting procurement strategies based on
	Fluctuations	procurement costs.	exchange rate changes.
	T. Cl. C.	The role of inflation in pricing strategies and	Negotiating longer-term contracts to combat
Inflation	procurement decisions.	inflation.	
·	E a a a a si a I I a a a da i a ta a	The influence of global economic instability	Shifting to local suppliers during periods of
Economic Uncertainty	on procurement decisions.	economic instability.	

Economic factors consistently emerged as influential in procurement decision-making. Exchange rate fluctuations were particularly emphasized, with many procurement teams adjusting their strategies to account for cost increases due to currency volatility. The issue of inflation was another prominent factor, leading procurement professionals to adopt strategies such as locking in prices through long-term contracts to protect against rising costs. Economic uncertainty, often tied to global crises or regional instabilities, drove firms to be more cautious in their approach, often shifting to local suppliers or diversifying their supplier base to reduce risk exposure. These findings highlight the responsiveness of procurement teams to changing economic conditions.

Table 3. Cultural Influences on Procurement Practices.

Theme	Description	Example
C	The impact of cultural differences in	Adapting negotiation styles when dealing
Communication Styles	communication.	with different regions.
Trust and Relationship	The role of trust in supplier relationships	Long-term relationships prioritized in Asia,
Building	across cultures.	while efficiency is key in Europe.
Local Business Practices	The importance of understanding local	Adapting procurement strategies based on
	business norms.	local supplier practices.

Cultural factors emerged as a significant theme in multinational procurement. Participants highlighted that communication styles greatly differ across cultures, requiring procurement teams to adjust their approach accordingly. For example, while Asian suppliers may value relationship-building and trust before entering contracts, European suppliers often prioritize efficiency and contractual clarity. This cultural variation extends to business practices, with participants stressing the need to understand local norms and adapt strategies accordingly. Procurement teams dealing with diverse regions found it essential to be flexible and culturally aware to ensure successful negotiations and long-term partnerships.

Table 4. Risk Management in Procurement.

Theme	Description	Example
Supply Chain	The identification of potential disruptions and the	Diversifying supplier bases to reduce
Disruptions	strategies to address them.	risk.
Geopolitical Risks	The influence of political instability and	Avoiding high-risk regions in favor of
	geopolitical tensions.	stable suppliers.
Natural Disasters	The impact of environmental factors on	Establishing contingency plans for
	procurement decisions.	natural disaster disruptions.

Risk management emerged as a critical component of procurement decision-making. Participants consistently identified the need to diversify supplier bases to mitigate risks from disruptions, whether due to natural disasters, geopolitical instability, or economic shocks. Geopolitical risks, in particular, prompted procurement teams to avoid sourcing from high-risk regions, focusing instead on more stable suppliers. This approach was coupled with the development of contingency plans to ensure that procurement could continue even in the face of significant disruptions. The emphasis on risk management highlights the dynamic and proactive nature of procurement decisions in a global environment.

Table 5. Sustainability Considerations in Procurement.

Theme	Description	Example
Environmental Sustainability	The role of environmental responsibility in	Prioritizing suppliers with green
	procurement.	practices.
Social Responsibility	The importance of fair labor practices and	Ensuring suppliers adhere to fair labor
	ethical sourcing.	standards.
Regulatory Compliance	The adherence to environmental and social	Compliance with international
	governance regulations.	sustainability standards.

Sustainability considerations played a significant role in shaping procurement strategies. Environmental sustainability was often prioritized, with procurement teams focusing on selecting suppliers that adhered to green practices, such as reducing carbon footprints and adopting renewable energy sources. Social responsibility was also a key theme, with procurement professionals emphasizing the need to ensure that suppliers followed ethical labor practices. Furthermore, adherence to regulatory compliance regarding environmental and social governance (ESG) standards was increasingly important, as procurement teams worked to align their decisions with international sustainability frameworks. The findings indicate that sustainability is no longer a secondary concern but a central aspect of strategic procurement.

Table 6. Decision-Making Frameworks in Procurement.

Theme	Description	Example
Cost-Benefit Analysis	The use of cost-benefit analysis to evaluate	Analyzing the total cost of ownership before
	supplier options.	selecting a supplier.
Multi-Criteria Decision	The use of MCDA to evaluate multiple	Balancing cost, quality, and sustainability
Analysis (MCDA)	factors in supplier selection.	when choosing suppliers.
Decision Support Systems	The role of DSS in streamlining	Using DSS tools to gather data and assess
(DSS)	procurement decisions.	supplier performance.

The analysis of decision-making frameworks revealed a trend toward the integration of both traditional and modern approaches. Cost-benefit analysis remained a popular method for evaluating supplier options, especially when considering the total cost of ownership. However, the increasing complexity of global supply chains has led to a shift towards multi-criteria decision analysis (MCDA), which allows procurement teams to assess multiple factors such as cost, quality, and sustainability simultaneously. Additionally, decision support systems (DSS) were widely adopted to help streamline decision-making by providing real-time data and predictive analytics, making procurement decisions more data-driven and less reliant on intuition.

Table 7. Leadership and Authority in Procurement Decisions.

Theme	Description	Example
Centralized Decision-Making	Decision-making authority concentrated at	Top executives approving large
	senior management levels.	procurement contracts.
Decentralized Decision-	Decision-making authority distributed	Procurement managers independently
Making	among procurement teams.	selecting suppliers.
Leadership Influence	The role of leadership in guiding	Senior managers influencing strategic
	procurement decisions.	procurement direction.

The study highlighted varying structures of decision-making authority within procurement teams. In organizations with centralized decision-making, top executives held significant influence over major procurement decisions, including approving large contracts and setting strategic procurement goals. In contrast, decentralized decision-making allowed procurement managers more autonomy to make day-to-day procurement decisions, enabling quicker responses to market changes. Leadership played a crucial role in both structures, as senior management often set the direction and provided guidance, especially in complex and strategic procurement decisions.

Table 8. Cost Optimization in Procurement.

Theme	Description	Example
Price Negotiation	The emphasis on negotiating favorable	Negotiating bulk discounts to reduce
	prices with suppliers.	procurement costs.
Total Cost of Ownership	Considering the full cost of procurement,	Analyzing long-term maintenance and
(TCO)	not just the purchase price.	support costs.
Cost Control Strategies	Strategies to optimize procurement costs	Implementing cost control measures to reduce
	across the supply chain.	wastage and inefficiency.

Cost optimization was identified as a central goal for procurement teams. Participants reported that price negotiation remained a fundamental aspect of procurement, with teams focused on securing favorable prices from suppliers through bulk discounts or long-term agreements. However, there was a growing emphasis on the total cost of ownership (TCO), which takes into account not just the initial price of goods but also factors like maintenance, transportation, and operational costs. Cost control strategies were also implemented to reduce inefficiencies across the supply chain, ensuring that procurement teams could optimize spending while maintaining quality and supplier reliability.

The findings of this study underscore the complex and multi-dimensional nature of procurement decisions in the modern business environment. Technology plays a pivotal role in shaping procurement strategies, with tools such as AI, data analytics, and blockchain being integrated to automate tasks, enhance decision-making accuracy, and ensure transparency. Economic factors, particularly exchange rate fluctuations, inflation, and global economic instability, were found to heavily influence procurement choices, prompting teams to adopt more flexible and adaptive strategies. Cultural differences were also a significant consideration, as procurement teams navigated varying communication styles, trust-building practices, and local business norms across different regions. Risk management emerged as a key theme, with procurement teams diversifying their supplier bases and developing contingency plans to mitigate risks from geopolitical instability, natural disasters, and supply chain disruptions. Sustainability was identified as a growing priority, with procurement decisions increasingly aligning with environmental and social responsibility standards, such as green practices and fair labor conditions. Furthermore, the study revealed the widespread use of decision-making frameworks like cost-benefit analysis and multi-criteria decision analysis (MCDA) to evaluate multiple supplier factors, with decision support systems (DSS) playing a critical role in data-driven procurement decisions. Leadership and authority structures within organizations also influenced procurement processes, with some companies adopting centralized decision-making, while others preferred a decentralized approach. Leadership was found to be instrumental in guiding strategic procurement decisions, shaping overall direction, and influencing supplier selection. Finally, cost optimization emerged as a central concern, with procurement teams

emphasizing price negotiations, total cost of ownership (TCO) considerations, and implementing cost control strategies to enhance operational efficiency and reduce procurement expenses. These findings collectively highlight the growing complexity of procurement processes and the need for a holistic, strategic approach to managing procurement in the face of diverse challenges and opportunities.

5. Discussion

The findings of this research offer valuable insights into the evolving landscape of procurement decision-making in multinational supply chains. One of the key observations from the study is the increasing reliance on advanced technologies to streamline procurement processes. These technologies not only enhance operational efficiency but also provide organizations with the tools needed to manage vast amounts of data and make more informed decisions. The integration of artificial intelligence, machine learning, and blockchain is transforming traditional procurement practices by improving accuracy, speed, and transparency. This shift toward digitalization aligns with the growing trend in industries worldwide to leverage technological advancements to stay competitive and address the increasing complexity of global supply chains. Economic factors remain a central influence on procurement decisions, with fluctuations in exchange rates, inflation, and market volatility forcing organizations to adapt their strategies constantly. The study highlights the need for procurement teams to be more agile and responsive to these economic shifts, as they can have a significant impact on costs and availability of resources. Procurement professionals must navigate the uncertainty of global markets, considering both short-term and long-term financial implications when making supplier selections and negotiating contracts. Moreover, the importance of developing a proactive approach to risk management has been emphasized, with companies increasingly diversifying their supplier bases and implementing contingency plans to mitigate the effects of potential disruptions. By adopting a more resilient procurement strategy, organizations can better safeguard their operations against unpredictable economic and geopolitical risks. Cultural differences also play a pivotal role in shaping procurement decisions. As organizations expand their operations into new regions, they are faced with varying communication styles, management practices, and expectations. These cultural factors often influence supplier relationships, negotiation tactics, and decision-making processes. Understanding these nuances and adapting to local business customs is essential for successful global procurement. This is particularly important for multinational corporations that need to strike a balance between standardizing procurement practices and customizing them to meet the needs of different cultural environments. Procurement teams must possess cultural awareness and flexibility to manage these dynamics effectively and maintain strong relationships with international suppliers. Sustainability has emerged as a crucial theme in procurement decision-making. The growing demand for environmentally responsible practices and ethical sourcing has led to an increased focus on sustainable procurement strategies. Organizations are now incorporating environmental, social, and governance (ESG) criteria into their decision-making processes, ensuring that their suppliers align with these values. This shift toward sustainability not only helps to improve corporate social responsibility but also appeals to increasingly eco-conscious consumers and investors. Procurement teams must therefore navigate the challenge of balancing cost-effectiveness with the need for sustainable practices. This requires a thorough understanding of the supply chain's environmental impact and the ability to assess potential suppliers based on their sustainability credentials. In addition to technological advancements and sustainability, the study also found that procurement strategies are shaped by the leadership and organizational structure of the firm. In some cases, centralized decision-making allows for more consistent procurement strategies and better alignment with overall corporate goals. However, in decentralized structures, local teams are empowered to make decisions that are more attuned to regional needs and market conditions. The type of decision-making structure adopted by an organization influences the procurement process in terms of speed, flexibility, and alignment with broader organizational objectives. Strong leadership is essential in guiding procurement decisions, ensuring that they are aligned with both short-term operational needs and long-term strategic goals.

Leaders must also be adept at managing stakeholder expectations, balancing the priorities of various departments, and fostering collaboration across teams. Cost optimization remains a primary consideration in procurement decision-making. Despite the increasing focus on sustainability and technological advancements, organizations are still under pressure to reduce costs and maximize value. This necessitates a careful balance between securing competitive pricing and ensuring quality, reliability, and ethical standards in the supply chain. Procurement teams are increasingly relying on decision support systems and multi-criteria decision analysis to evaluate multiple factors when selecting suppliers. These tools enable procurement professionals to assess trade-offs between cost, quality, risk, and sustainability, providing a more comprehensive view of potential suppliers. By utilizing these frameworks, organizations can make better-informed decisions that align with their overall objectives, minimize procurement risks, and optimize costs across the supply chain. Finally, the study highlights the importance of adaptability and flexibility in procurement decision-making. The dynamic nature of global markets, coupled with the complexities introduced by technological advancements, cultural differences, and sustainability considerations, means that procurement teams must be agile in their approach. Organizations that embrace change and continuously evaluate their procurement strategies are better positioned to thrive in an increasingly competitive global landscape. Flexibility in decision-making allows procurement teams to respond to changing market conditions, adopt new technologies, and align with evolving customer and regulatory demands. This adaptability is essential for organizations seeking to maintain a competitive edge and navigate the challenges of global procurement successfully.

6. Conclusion

This research highlights the multifaceted nature of procurement decision-making in multinational supply chains. As organizations navigate an increasingly complex and interconnected global marketplace, the findings underscore the critical role of technological innovation, economic factors, cultural considerations, and sustainability in shaping procurement strategies. The use of advanced technologies such as artificial intelligence and blockchain is revolutionizing procurement processes, enabling companies to enhance efficiency, improve data management, and foster greater transparency. Alongside technological advancements, economic factors, including market volatility and exchange rate fluctuations, continue to play a significant role in influencing procurement decisions, necessitating a proactive and agile approach to risk management. Moreover, the study reveals the importance of cultural sensitivity in global procurement, with multinational organizations needing to navigate varying business customs and communication styles to build successful supplier relationships. Sustainability has also emerged as a vital consideration in procurement decisionmaking, with an increasing focus on ethical sourcing, environmental responsibility, and corporate social responsibility. Organizations are now tasked with balancing the demand for cost optimization with the need to incorporate sustainable practices into their supply chains, creating a complex decision-making environment. The research also points to the significance of leadership and organizational structure in shaping procurement strategies, with both centralized and decentralized models offering distinct advantages and challenges. Ultimately, this research emphasizes the need for procurement professionals to be adaptable and forward-thinking, able to navigate the complexities of a rapidly changing global landscape. The procurement function must continuously evolve to address new challenges and opportunities, ensuring alignment with both short-term operational goals and long-term strategic objectives. By embracing technological advancements, fostering cultural awareness, integrating sustainability into decision-making processes, and maintaining flexibility in the face of changing conditions, organizations can optimize their procurement practices and maintain a competitive edge in the global marketplace.

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