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Unlocking the Power of Internal Control: How It Lowers Risk and Slashes Logistics Costs in Retail

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Abstract

Effective internal control is crucial for optimizing the logistics process and mitigating potential financial and operational losses associated with various risks, including inventory discrepancies, delayed deliveries, and lost goods. This study examines internal control's role in minimizing logistics risks and costs within the retail sector. This research uses a qualitative approach and a descriptive method, and the findings reveal that internal control is vital for the retail industry, particularly in decreasing operational risks and managing high logistics costs. By implementing standardized procedures, companies can enhance the efficiency of inventory management, distribution, and storage, thereby reducing the likelihood of loss or inaccuracies in stock data. Furthermore, the segregation of duties safeguards against fraud and improves overall accuracy. Internal control also fosters cost-efficiency by optimizing inventory management, employing technology for real-time monitoring of shipments and distribution, and better overseeing transportation budgets. Additionally, it ensures adherence to relevant regulations and legal standards, promotes transparency and accountability within the logistics process, and bolsters the organization's integrity. Thus, internal control significantly contributes to effective risk management, cost efficiency, and the sustainability of businesses in the retail sector.

Keywords: Internal Control, Logistics Cost, Retail Sector, Risk Management.

Abstrak

Pengendalian internal yang efektif sangat penting untuk mengoptimalkan proses logistik dan mengurangi potensi kerugian finansial dan operasional yang terkait dengan berbagai risiko, termasuk ketidaksesuaian inventaris, keterlambatan pengiriman, dan kehilangan barang. Penelitian ini mengkaji peran pengendalian internal dalam meminimalkan risiko dan biaya logistik di sektor ritel. Penelitian ini menggunakan pendekatan kualitatif dan metode deskriptif, dan temuan menunjukkan bahwa pengendalian internal sangat penting bagi industri ritel, khususnya dalam mengurangi risiko operasional dan mengelola biaya logistik yang tinggi. Dengan menerapkan prosedur standar, perusahaan dapat meningkatkan efisiensi manajemen inventaris, distribusi, dan penyimpanan, sehingga mengurangi kemungkinan kehilangan atau ketidakakuratan data stok. Selain itu, pemisahan tugas melindungi dari kecurangan dan meningkatkan akurasi secara keseluruhan. Pengendalian internal juga mendukung efisiensi biaya dengan mengoptimalkan manajemen inventaris, memanfaatkan teknologi untuk pemantauan waktu nyata pengiriman dan distribusi, serta lebih mengawasi anggaran transportasi. Selain itu, pengendalian internal memastikan kepatuhan terhadap regulasi dan standar hukum yang relevan, mempromosikan transparansi dan akuntabilitas dalam proses logistik, serta memperkuat integritas organisasi. Dengan demikian, pengendalian internal memberikan kontribusi signifikan terhadap manajemen risiko yang efektif, efisiensi biaya, dan keberlanjutan bisnis di sektor ritel.

Kata Kunci: Pengendalian Internal, Biaya Logistik, Sektor Ritel, Manajemen Risiko.

JEL Classification: M40, M410, R4

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1. Introduction

In today's increasingly interconnected world, consumers enjoy unprecedented access to vast products from every corner of the globe, unencumbered by geographical barriers. With just a few clicks, they can order items from different countries even across continents and receive them at their doorstep within days (Hermawanto & Anggraini, 2020). Advances in logistics technology and efficient distribution networks have facilitated this rapid and seamless process. Furthermore, establishing secure international payment systems, alongside the support of global e-commerce platforms and sophisticated supply chain management, has transformed cross-border transactions into a straightforward and enjoyable experience for consumers (Raza & Komala, 2020).

The global supply chain serves as the backbone for the movement of products across national borders and continents, driving business activities worldwide (Irawan & Lestari, 2024). In the retail sector, logistics is crucial for managing the entire flow of goods, from procuring raw materials to distributing finished products to consumers. Efficient logistics guarantee that goods reach the correct location, on time, and in optimal condition while minimizing costs to maintain market competitiveness (Kusumaastuti & Sugiama, 2019). Retail logistics enhances customer satisfaction and bolsters competitive strength by coordinating various stages, such as storage, transportation, packaging, and order fulfillment. Moreover, advanced logistics systems facilitate swift response to fluctuations in market demand, allowing consumers to easily access the products they need whenever and wherever they may be (Karjono et al., 2024).

Retail sector logistics is the backbone of the process that facilitates the seamless movement of products from manufacturers to end consumers. Key activities within this process, such as warehousing, inventory management, distribution, and long-distance delivery, must be meticulously managed (Gupta & Ramachandran, 2021). Effective warehousing is vital for ensuring stock availability. Strong inventory management helps maintain optimal levels, preventing shortages and surpluses, which enhances operations and customer satisfaction. Timely and strategic distribution ensures that products arrive at their intended locations efficiently, while long-distance delivery makes it possible for consumers in various regions to receive products without complications (Nurdin et al., 2024). Well-designed and effectively managed retail logistics lead to significant reductions in operational costs, enhanced efficiency, and the ability to meet evolving customer demands. This, in turn, provides a competitive advantage for retail businesses, allowing them to fulfill customer expectations and maximize their profits (Buldeo et al., 2019).

Retail logistics encounters many complex challenges, including effective inventory management that balances item availability and storage costs, fluctuations in consumer demand, and rising transportation expenses, particularly for long-distance deliveries (Nimmagadda, 2021). Furthermore, ensuring a secure and integrated supply chain is crucial, especially considering potential external disruptions such as natural disasters, pandemics, or political tensions that may impact distribution. The intense competitive landscape necessitates rapid and cost-effective delivery services, while integrating new technologies demands significant investments and operational adjustments (Chukwuka et al., 2023). Another significant challenge is managing distribution and product availability risks influenced by external factors. To effectively address this risk, retailers should adopt strategies such as supplier diversification and real-time market monitoring alongside predictive analytics technology and AI-driven monitoring systems (Riad et al., 2024).

In addition to risks, high logistics costs pose a significant challenge for the retail sector. Transportation expenses, particularly last-mile and express delivery, continue escalating as

consumer demand for faster and more flexible services grows (Setyabudhi et al., 2024). Additionally, the costs associated with storing goods can become a considerable burden if not managed efficiently. Companies must account for warehouse rental fees, inventory management, and labor costs. To address these challenges, many retail organizations invest in technological solutions, such as warehouse automation and supply chain management systems, to enhance operational efficiency and reduce expenses (Zahra & Purwaningsih, 2023). However, the initial investment required for these technologies can be substantial, prompting companies to devise long-term strategies to ensure their investments yield maximum returns. By optimizing retail logistics, companies can lower costs while meeting customer expectations regarding service availability and speed (Nur & Hura, 2024).

Implementing robust internal controls is essential to mitigate the risks and substantial costs associated with logistics in the retail sector. Internal controls are crucial in risk management and minimizing logistics expenses (Mandiri, 2023). By establishing adequate internal controls, companies can ensure that every supply chain step from procurement and warehousing to distribution operates according to set standards. Regular audits, strict inventory management, and digital monitoring systems help companies spot and resolve issues early. This proactive approach prevents problems from escalating and improves operational efficiency (Saputra & Pasaribu, 2022) furthermore, internal controls aid in preventing losses related to overstocking, theft, or damage to goods. By meticulously tracking expenditures, companies can pinpoint inefficiencies and implement adjustments to reduce operational costs (Armin, 2019).

Internal control, often called management control in a broader context, encompasses several key components, including the control environment, risk assessment, control activities, information and communication, and monitoring (Habibullah et al., 2024). It is the primary defense mechanism to safeguard assets while detecting errors, fraud, irregularities, and non-compliance with relevant regulations (Hutapea & Ghozali, 2022). The internal control system consists of organizational structures, methods, and various strategies that function together to safeguard organizational assets, ensure the accuracy and reliability of financial data, improve efficiency, and guarantee the effective execution of management policies (Wifriya & Sanjaya, 2020).

The distinctiveness of this research is rooted in its comprehensive exploration of the pivotal role of internal control in the retail logistics sector. This area has not received adequate attention in extensive academic studies. While numerous past investigations have concentrated on various aspects of risk and logistics management within the retail industry, this study seeks to fill that critical gap in knowledge. By leveraging contemporary empirical data and a range of in-depth discussions on retail companies, this research aspires to unveil fresh perspectives on effective control strategies. It aims to provide actionable recommendations to optimize logistics performance and enhance overall operational efficiency.

Moreover, the study will explore the far-reaching implications of bolstering internal controls, mainly how these enhancements can promote business sustainability. These factors are increasingly vital for businesses as they navigate the complexities and challenges posed by rapidly changing market dynamics. This exploration will not only contribute to theoretical frameworks but also offer practical guidance for retail businesses striving to adapt and thrive in a competitive landscape.

2. Method

This research employs a qualitative approach utilizing a descriptive research type, as articulated by Sugiyono (2019), who states that the descriptive qualitative research method is

grounded in the philosophy of postpositivism. The qualitative descriptive method was chosen for its capacity to thoroughly examine the factual conditions of the research phenomena. This approach provides detailed insights into how internal control is integrated within logistics operations, highlighting its role in reducing risks and costs for retail companies. Additionally, it uncovers dynamics that may have been overlooked in previous quantitative studies.

The data sources utilized in this study are predominantly secondary data, which plays a crucial role in laying a solid groundwork for our research findings. This secondary data encompasses a thorough document analysis of various materials, including historical archives, analytical notes, peer-reviewed academic journals, and articles that are directly relevant to our research topic.

The research employed diverse data collection techniques to gather this wealth of information effectively. This multifaceted approach involved careful observation of related practices within the field and meticulous documentation of our findings to ensure the data's validity and reliability.

Once we completed the data collection phase, we thoroughly analyzed the information. This analytical process unfolded in several stages, beginning with data reduction. We meticulously filtered and organized the data in this initial stage, focusing on distilling the most pertinent information supporting our conclusions.

Following data reduction, the refined data is compiled into a structured format that facilitates clearer insights and understanding. Ultimately, this comprehensive analysis allowed us to draw meaningful conclusions, leading to a well-articulated and in-depth knowledge of the significant role that internal control systems play in enhancing logistics efficiency within the retail sector. Through this research, we aim to underscore the importance of these systems in streamlining operations and improving overall performance in the industry.

3. Results and Discussion

Logistics in Retail Sector

Logistics is vital for facilitating the efficient movement of products from producers to consumers within the retail industry. There is considerable potential for the role of logistics in the retail sector to expand and evolve in the present and future (Ellram et al., 1999). Effective logistics can serve as a competitive advantage for retail organizations (Freitag & Silva, 2021). This logistics process encompasses several critical components: supplier coordination, effective inventory management, warehouse operations, transportation, and order fulfillment. Each of these elements is interconnected and significantly impacts the whole efficiency of the logistics flow (Tien et al., 2019). For instance, strong coordination with suppliers can guarantee the timely availability of goods. At the same time, attentive inventory management mitigates the risks of overstocking or shortages, which can negatively affect the business. To navigate the complexities of logistics, retail companies must concentrate on optimizing their operations to reduce costs and enhance the customer experience. Implementing information technology, such as supply chain management systems and analytical software, can assist companies in planning and executing more efficient logistics strategies (Dehgani & Jafari Navimipour, 2019).

Retail logistics encompasses product flow management throughout the supply chain, from manufacturers to end consumers. This process involves several critical activities, including warehousing, inventory management, distribution, and last-mile delivery. Efficient retail logistics ensures that products are available when needed, enhancing customer satisfaction and shopping experiences. This leads to higher sales and stronger brand loyalty, as satisfied

customers are more likely to return and recommend the brand. Effective logistics management builds lasting customer relationships and drives long-term retail success (Loske & Klumpp, 2022). Careful planning, effective coordination among all stakeholders, and incorporation of modern technology are essential to achieve efficiency in retail logistics. Companies must also ensure that their organizational elements, particularly employees across all departments, are prepared and equipped to adapt to technological changes (Setiawan et al., 2021). Tools such as supply chain management systems and analytics software can facilitate real-time monitoring and management of goods flow, enabling companies to make more informed, data-driven decisions. Furthermore, an active method of risk management and cost control minimizes waste and boosts productivity (Cullinane et al., 2019).

Retail logistics can be categorized into two primary areas: inbound logistics and outbound logistics, both of which play a crucial role in warranting the flow of the retail supply chain. Inbound logistics encompasses the process retailers follow to obtain goods from suppliers, including raw materials and finished products, and transport them to internal locations such as warehouses, fulfillment centers, or retail outlets. During this phase, retailers must maintain effective coordination with suppliers to ensure a seamless flow of goods, thereby avoiding stock shortages or surpluses. By efficiently managing inbound logistics, retailers can optimize inventory levels, reduce storage costs, and guarantee that the necessary products are consistently available in the right quantities (Minner, 2019). Outbound logistics refers to distributing products from the retailer's internal locations to the final consumer. This stage encompasses the picking, packing, and shipping products to customers. It can occur through various channels, including direct delivery to the customer's home or a physical retail location. The primary focus of outbound logistics is on the speed and accuracy of delivery, particularly as customers increasingly expect a prompt and efficient experience. In today's digital landscape, outbound logistics has also evolved to incorporate tracking technology that enables customers to monitor the status of their deliveries in real time. Outbound logistics' efficiency affects customer satisfaction and enhances the value companies offer, especially in fostering a reliable reputation and building consumer loyalty in an intensely competitive market (Klumpp & Heragu, 2019).

Effective retail logistics is crucial for businesses aiming to achieve several strategic objectives, including cost reduction, enhanced efficiency, and a competitive edge in the market. By implementing an organized and systematic logistics process, companies can lower operational costs through meticulous inventory management, optimization of delivery routes, and integration of automation technology in their warehouses (Sarjito, 2023). By controlling logistics expenses, businesses alleviate financial pressures and gain the flexibility to offer more competitive pricing to customers without sacrificing service quality. The operational efficiencies derived from streamlined logistics processes empower businesses to adapt to changes in demand and market fluctuations swiftly, a vital capability in the fast-paced retail environment (Christopher, 2022).

Retail logistics encompasses several critical components that significantly impact operational success, including inventory management, warehousing, and transportation (Tien et al., 2019). Successful inventory management is fundamental to ensure product availability while avoiding excess stock, which can escalate storage costs. Warehouses are vital hubs for storing and managing inventory efficiently, leveraging technology such as real-time monitoring systems and automation to enhance productivity. Transportation, the primary means of shipping goods, influences customer satisfaction and profitability. With effective management, it can optimize both costs and delivery times. Retailers must carefully select the appropriate mode of transportation—be it truck, ship, or plane—to balance cost and time efficiency (Umair et al., 2019).

Risk Management and Logistics Cost in Retail Sector Logistics Risk Management

Effective risk management in logistics is a crucial component of the logistics process, emphasizing the planning, implementation, and control of the efficiency and effectiveness of storing and moving goods, services, and related information. This comprehensive approach covers the entire journey of a product, from its origin to its destination, with the primary aim of meeting customer needs optimally. Consequently, establishing an effective and efficient risk management framework is a top priority for all professionals involved in logistics management(Choi et al., 2016). In this framework, risk management goes beyond merely addressing risks that may disrupt smooth distribution; it also encompasses preventive and adaptive measures that ensure continuity in logistics operations (Tubis & Werbińska-Wojciechowska, 2021). This entails evaluating potential risks at every stage, including procurement, inventory management, storage, and transportation. Through meticulous risk planning, companies can mitigate the impact of various threats that could disrupt the supply chain-delivery delays, damaged goods, or stock shortages thereby enhancing client satisfaction and preserving the company's image in the market. The risk management process allows for proactive actions to identify, analyze, and evaluate risks, thereby minimizing their occurrence and promoting effective risk mitigation strategies (De Oliveira et al., 2021).

Logistics risk management comprises a crucial series of steps to address the risks identified within a company's logistics operations (Odimarha et al., 2024). The first step is Risk Identification, which involves recognizing and documenting potential risks that may arise throughout the supply chain. This stage requires collecting detailed information about various risks, encompassing internal and external factors. Internal risks may relate to challenges associated with inventory management, warehouse capacity, and the condition of the company's logistics infrastructure. External risks refer to factors outside the company's control, such as hostile weather conditions, natural disasters, or changes in government policies that could impact the distribution and delivery process.

The next step involves Risk Evaluation, which seeks to understand the magnitude of the potential impact of risks and the likelihood of their occurrence. By conducting a thorough evaluation, companies can prioritize treatment strategies for various types of risks based on severity and probability. This analysis enables organizations to allocate resources more effectively—in terms of time, costs, or personnel ensuring that mitigation efforts are concentrated on the most significant and critical risks affecting the sustainability of logistics operations. Risk evaluation is a crucial foundation for companies in developing effective action plans.

The final stage is Risk Control, which involves developing strategies and specific actions to manage the identified and assessed risks. Risk control can encompass a range of approaches, such as risk prevention through the enhancement of security procedures, risk transfer via insurance or contracts with third parties, risk mitigation by developing emergency plans, or risk retention by accepting certain risks that are deemed manageable. By implementing a well-thought-out control strategy, the company can minimize the adverse effects of various risks, enhance operational stability, ensure seamless distribution, and bolster customer confidence in the services provided.

Risk management is vital to a company's operational strategy in today's increasingly complex logistics landscape. By adopting a proactive approach that encompasses comprehensive risk identification, evaluation, and management, logistics planners can maintain the stability of operational flows, minimize potential losses, and ensure the long-term sustainability of the supply chain. This proactive strategy involves assessing potential risks at every stage of the

logistics process, from procurement and storage to distribution. Furthermore, active engagement from various stakeholders suppliers, delivery teams, and customers is essential for fostering effective and responsive communication when addressing changes or challenges. With a well-structured risk management framework and strong stakeholder collaboration, companies can enhance their preparedness, navigate dynamic uncertainties, and continually adapt to ensure seamless and efficient supply chain operations. This approach not only mitigates short-term risks but also bolsters the company's resilience and competitiveness in the future.

Logistics Cost Management

According to Gomes et al. (2023), today's business leaders must adopt more effective logistics procedures in response to growing customer demand and the rapid evolution of e-commerce. Within this context, the final cost of a product is a critical factor influencing customers' brand choices. Consequently, companies must reduce logistics costs through strategic and well-planned management. By adopting best practices in logistics management, companies can realize significant savings while improving overall operational efficiency. This encompasses optimizing the supply chain, improving inventory management, and selecting the most suitable transportation methods. These measures help cut expenses and accelerate the delivery process, ultimately boosting customer satisfaction and enhancing the company's competitiveness in the market.

Logistics cost management encompasses strategies and practices designed to minimize expenses in the logistics process while maintaining high-quality service for customers. This approach is crucial for establishing a competitive advantage, as optimizing logistics costs allows companies to enhance operational efficiency while ensuring timely deliveries and intense customer satisfaction (Stefanova, 2022). Furthermore, effective logistics cost management affords the flexibility to adapt to evolving market conditions, including demand fluctuations and supply chain challenges. With the capacity for rapid and responsive adaptation, companies can preserve customer satisfaction and even reinforce brand loyalty. Therefore, logistics cost management investments facilitate cost savings and foster positive, long-term customer relationships, ultimately promoting sustainable business growth.

Comprehending and managing logistics cost elements cohesively is essential. In the realm of logistics, costs should not be regarded in isolation; rather, all cost components are intricately interlinked with other financial categories. An effective strategy entails managing these costs within a comprehensive logistics framework that takes into account the impact of each decision on the organization's overall economic performance. This highlights the significance of recognizing how logistics costs interact with other departments, such as sales on its selling mode, and their influence on the company's performance (Qin et al., 2021).

Calculating the total costs by aggregating each component involved is crucial to effectively managing logistics costs. Rushton et al. (2022) emphasize that analyzing total logistics costs is fundamental to sound cost management. Rather than reducing costs for specific activities in isolation, managers should adopt a broader perspective and aim to minimize total logistics expenses. A fragmented approach can lead to cost reductions in one area while inadvertently increasing costs in another, ultimately impacting the company's overall logistics costs.

The primary challenge in managing total logistics costs lies in their visibility. Logistics expenses are often concealed within financial statements and may not be readily apparent. This obscurity poses a significant challenge for companies in identifying and analyzing logistics costs. Inadequate classification and recording of these costs in financial reports can distort the accurate representation of a company's logistics performance. Consequently, it is

essential to enhance accounting practices to track and analyze all components of logistics costs more effectively.

Bowersox and Closs in Yakushev et al. (2023) highlight shortcomings in commonly used accounting practices, such as accumulating costs based on their nature, not their activities. This means that costs are not allocated in a way that allows managers to see the direct impact of certain activities on overall logistics costs. Apart from that, the lack of specifications and allocation of stock maintenance costs can also result in uncertainty in measuring logistics costs. By understanding and correcting these shortcomings, companies can better manage logistics costs and improve their operational efficiency and competitiveness.

Effective logistics cost management extends beyond a company's internal operations; it necessitates a broader perspective that encompasses the entire supply chain. Every step in the logistics process from suppliers to end consumers should be analyzed to uncover cost-saving opportunities. By adopting a holistic approach, organizations can enhance efficiency throughout the supply chain rather than solely within their operational confines. For instance, fostering collaboration with business partners, sharing information, and optimizing processes can enable all stakeholders to reduce costs while maintaining high customer service quality. Consequently, logistics cost management is not merely the obligation of individual employees but a shared responsibility that engages various stakeholders across the supply chain.

Moreover, implementing integrated logistics cost management empowers companies to respond more effectively to market fluctuations and customer demands. Organizations must swiftly adapt to sustain their relevance in today's competitive landscape. By viewing total logistics costs as a fundamental aspect of their business strategy, companies can make more informed decisions regarding procurement, storage, and distribution. Tools and technologies that facilitate logistics cost management, such as monitoring and analysis software, can provide the critical insights necessary for prompt and effective adjustments (Ding et al., 2021). Therefore, a comprehensive approach to logistics cost management is vital for enhancing profitability and establishing a sustainable competitive advantage in a dynamic market.

The Role of Internal Control in Reducing Logistics Risks and Costs in the Retail Sector

Internal control comprises policies and procedures to safeguard company assets from misuse. Additionally, this system seeks to ensure that the organization's accounting information is accurate and reliable (Rahadian et al., 2022). Internal control ensures that employees adhere to all legal regulations and management policies. In essence, internal controls act as a protective barrier against theft, embezzlement, and the misuse of resources while also ensuring that company assets are not placed in vulnerable positions. At the same time, stricter internal control on product quality is preferred to reduce the risk (Giuffrida et al., 2021).

Internal control is an essential part of fundamental management processes, including planning, implementation, and monitoring. During the planning stage, companies should identify potential risks and develop appropriate mitigation strategies. In the implementation phase, these strategies are put into action through clear procedures and employee training to ensure understanding and compliance. Lastly, ongoing monitoring is necessary to evaluate the effectiveness of the internal control system and make improvements as needed. By following this approach, companies can protect their assets and enhance the integrity and transparency of their financial reporting, which in turn strengthens stakeholder confidence in the organization. Effective internal control is a key component of good corporate governance, ultimately leading to greater transparency in financial reporting (Salehi et al., 2023).

The primary objective of internal control within a company is to safeguard assets and finances, thereby preventing misuse and potential losses. This is achieved through diligent supervision and well-structured procedures. Moreover, internal control ensures that financial reports are generated accurately, entirely, and punctually, enabling stakeholders to make informed decisions based on reliable data (Ardianingsih & Setiawan, 2023). Additionally, it ensures that operational activities align with company policies and relevant regulations, thus facilitating the achievement of established strategic goals. Companies can uphold operational integrity through effective internal control and promote stable and efficient business continuity.

Key internal control principles include the segregation of duties, which minimizes the risk of authority abuse by preventing employees from handling multiple critical functions. Establishing clear responsibilities is another crucial principle, ensuring that each individual understands their role, thereby fostering accountability. Systematic documentation procedures are essential for tracking all significant transactions and activities within the company. Independent internal verification assures that processes and data are executed as intended, free from fraud. Furthermore, companies implement various physical, mechanical, and electronic controls, incorporating technological tools and security systems to protect assets from theft or damage while ensuring safe procedures and data storage (Zahara et al., 2024).

The Committee of Sponsoring Organizations (COSO) (2013) defines internal control as a systematic process aimed at fostering confidence in achieving organizational objectives across three vital areas: the reliability of financial reporting, compliance with relevant laws and regulations, and operational effectiveness and efficiency. COSO delineates five critical components of internal control: the control environment, risk assessment, control activities, information and communication, and monitoring. To facilitate practical application, these components are elaborated through 17 principles.

The control environment serves as the foundational aspect of an internal control system, encompassing ethical values, organizational culture, and governance practices. It establishes a commitment to integrity, promotes the effective functioning of the board of directors, and reinforces accountability. Risk assessment entails the identification, analysis, and mitigation of risks that may impede the achievement of objectives, thus enabling the organization to respond proactively to potential threats.

Control activities consist of specific actions such as the segregation of duties, transaction authorization, and data reconciliation, all aimed at minimizing risk and ensuring consistent policy execution. Information and communication highlight the necessity of collecting and disseminating relevant and accurate information to internal and external stakeholders to enhance decision-making processes.

Lastly, monitoring represents a continuous oversight process that regularly evaluates control effectiveness and necessary adjustments in response to identified weaknesses. The integrated implementation of these five components fosters a robust framework for organizations to manage risk, ensure compliance, and enhance operational efficiency, thereby supporting strategic goals and bolstering stakeholder trust.

An effective internal control system is intrinsically linked to the retail sector's risk management and logistics costs. In this framework, the control environment plays a crucial role in ensuring that logistics policies such as inventory management and distribution are executed by established standards that promote cost efficiency and minimize risks, including theft and damage to goods. Conducting thorough risk assessments is essential for identifying potential disruptions in the supply chain, such as delivery delays, fluctuations in demand, or challenges

posed by unreliable suppliers (Zalukhu, 2022). Companies can formulate mitigation strategies by clearly understanding these risks, such as diversifying their supplier base or leveraging technology for real-time stock monitoring.

Control activities in the retail sector, such as the implementation of authorization procedures and regular logistics audits, play a crucial role in preventing deviations that can lead to increased costs, including inefficient deliveries and excess inventory. Additionally, information technology significantly contributes to enhanced information sharing and communication, exemplified by warehouse management systems that ensure stock data is always accurate and readily accessible to facilitate swift decision-making. This accuracy helps mitigate costs associated with inaccurate data, such as extra expenses for emergency orders or lost sales due to stockouts.

The monitoring component ensures that all logistics processes undergo regular evaluations through both internal audits and daily operational assessments. This process aids in identifying weaknesses within the system, such as inefficiencies in distribution routes or suboptimal resource utilization, enabling the company to make timely improvements.

Internal control serves a strategic function in minimizing risks and logistics costs within the retail sector, particularly given the operational complexities and high reliance on supply chain efficiency. Key roles of internal control include:

Reducing Operational Risk

Internal control in the retail sector primarily aims to mitigate operational risks related to inventory management, distribution, and storage. By establishing standardized procedures, companies can ensure logistics activities comply with guidelines, enabling precise stock recording and monitoring of deliveries. This oversight reduces losses and discrepancies between stock data and actual inventory.

Segregation of duties further enhances security by preventing individuals from overseeing the entire logistics process, thereby reducing the risk of fraud (Srinidhi, 1994). For instance, stock recording is separated from goods distribution, creating layered supervision for improved accuracy. This segregation will also mean there will be job rotation among employees. Task rotation has yielded stronger relationships with attitudinal outcomes, while job rotation enhances learning and development, psychological health, and organizational performance outcomes (Mlekus & Maier, 2021). Additionally, monitoring suppliers is crucial to mitigate risks like delivery delays or supply chain disruptions, partnering only with those meeting established quality standards.

Ultimately, robust internal controls allow for proactive risk management. An effective monitoring system helps identify potential issues, such as poor storage conditions or distribution inefficiencies, leading to timely corrective actions. By implementing these controls, businesses can ensure smooth logistics and continuity in operations.

Strengthening Cost Efficiency

Internal control is vital for enhancing logistics cost efficiency within the retail sector, particularly by facilitating optimal inventory management. This can be achieved by meticulously planning inventory requirements to avoid overstocking and stockouts. Excess inventory can lead to elevated storage costs and the potential for damage to goods, while shortages can cause lost sales opportunities and diminish customer satisfaction. Companies can maximize storage space utilization and minimize unnecessary operational expenses by implementing adequate controls.

Moreover, incorporating information technology into internal control systems enables companies to manage logistics more efficiently. Technology-driven warehouse management systems provide real-time monitoring of inventory, delivery, and distribution of goods. This precise and readily accessible data facilitates quicker and more informed decision-making, such as identifying the optimal time to reorder supplies or designing more cost-effective delivery routes. Consequently, information technology minimizes the risk of human error and helps reduce operational logistics costs (Sgarbossa et al., 2020).

Internal control also contributes to the efficient management of transportation and distribution budgets. Companies can pinpoint inefficiencies by regularly monitoring logistics expenses, such as suboptimal delivery routes or excessive fuel consumption. Furthermore, consistently evaluating the performance of logistics vendors ensures that the costs incurred align with the quality of services rendered. This method allows companies to allocate resources more effectively, minimize waste, and maintain profitability.

Managing Financial Risk

Internal controls are essential for effectively managing financial risks associated with logistics in the retail sector. One key strategy involves budget control for transportation and distribution. Organizations can establish structured oversight to ensure logistics expenditures are made using planned budget allocations. For example, effective management practices can mitigate additional costs resulting from delivery delays or inefficient rerouting. This proactive approach reduces unexpected expenses and enhances overall financial stability.

Furthermore, internal controls facilitate the ongoing monitoring of various components of logistics expenditure, including fuel costs, vehicle utilization, and labor. Companies can identify operational inefficiencies by conducting this evaluation, such as excessively long delivery routes or suboptimal distribution schedules. Addressing these inefficiencies not only leads to cost savings but also enhances effectiveness in supply chain management. Regularly assessing this process ensures the logistics budget is managed transparently and responsibly.

Internal control also encompasses evaluating the performance of logistics vendors to confirm that the services rendered align with the costs paid (Jazairy, 2020). Companies can ascertain whether a vendor is providing value or if a change is necessary by consistently assessing service quality- such as on-time delivery and transportation reliability. This proactive approach helps organizations avoid losses from high costs disproportionate to service quality, thereby increasing operational efficiency (Tetteh et al., 2022). In this way, internal control is an invaluable tool for maintaining financial stability amidst the complexities of logistics challenges.

Ensuring Compliance with Regulations

Internal control plays a crucial role in ensuring that companies in the retail sector comply with various applicable logistics and operations regulations, both locally and internationally. Adherence to these regulations is essential to avoid legal sanctions or fines, which could elevate operational costs and harm the company's reputation. For instance, regulations concerning safety in transporting goods and environmental standards, such as vehicle exhaust emissions, must be strictly followed. Internal control mechanisms verify that all logistics processes are conducted under legal standards, thereby minimizing legal risks.

Moreover, internal controls ensure compliance with sustainability and corporate social responsibility (CSR) regulations (Li, 2020) (Harasheh & Provasi, 2023). Companies must adhere to guidelines regarding environmentally friendly materials, waste management, and procedures for transporting goods that prevent environmental harm. In this context, internal

control ensures that all logistics activities align with the company's sustainability policies and comply with the provisions established by government or regulatory bodies. Therefore, internal control assists companies in maintaining operations within the legal framework without incurring additional costs due to non-compliance.

In addition to adhering to safety and environmental regulations, robust internal controls are crucial in ensuring that every transaction and logistics process is thoroughly documented to meet mandatory audit and reporting requirements. This encompasses the management of shipping documents, goods receipts, and proof of transactions with suppliers or customers. By maintaining complete and transparent documentation, companies can mitigate potential legal issues that may arise in the future, such as contract disputes or tax compliance challenges. An effective internal control system guarantees that all logistics activities are accurately accounted for and compliant with regulatory standards. Through a holistic approach to internal controls, companies can reduce legal risks, avoid penalties, and cultivate a positive image in the eyes of customers, suppliers, and the broader community. Furthermore, compliance with stringent regulations enhances stakeholder confidence and provides a competitive edge in a market that increasingly values sustainability and social responsibility.

Enhancing Monitoring and Evaluation

Internal control is crucial for enhancing transparency and accountability throughout the logistics process in the retail sector. A well-defined and structured control system allows for meticulous monitoring of every step in the logistics chain, from the receipt of goods to their distribution to end consumers. These internal controls ensure that all activities are recorded accurately and in detail, facilitating management and authorized personnel oversight. With transparent information, companies can assess the performance of each segment in the supply chain, ensuring that all processes adhere to established standards.

Moreover, internal control fosters accountability by clearly defining the responsibilities of individuals or departments for assigned tasks. Establishing effective internal control measures can positively influence employee engagement, fostering a more committed and proactive workforce (Haryanto et al., 2023). For instance, each unit or warehouse responsible for storing goods must implement transparent and accountable procedures in inventory management. In the event of a nonconformity or loss, internal controls enable the company to trace the source of the issue, allowing it to take appropriate corrective measures. They also ensure that the staff involved in logistics remain fully accountable for the operational flow, thereby minimizing the chances of errors or fraud.

Transparency enables companies to evaluate their vendors and logistics partners effectively. Organizations can monitor vendor performance regarding service quality, on-time delivery, and associated costs with thorough and precise documentation. This facilitates the comparison of vendors, allowing companies to select the partner that offers the best value. Conversely, accountability in vendor management is crucial for mitigating potential risks stemming from contracts or deliveries that do not align with the initial agreements. An internal control system ensures the entire process is accountable, preventing any party from evading responsibility.

Internal controls significantly enhance transparency and accountability, bolster organizational integrity, and foster trust among all stakeholders, including employees, customers, suppliers, and regulators. Furthermore, maintaining transparency simplifies the process for companies facing audits or external examinations and aids in ensuring compliance with relevant regulations. Collectively, these factors contribute to the company's sustainability and reputation while minimizing risks linked to non-compliance or errors in logistics operations.

4. Conclusion

Logistics within the retail sector is integral to ensuring the efficient distribution of products from manufacturers to consumers. This process is essential for maintaining supply chain integrity and enhancing customer satisfaction. This study encompasses supplier coordination, inventory management, warehousing, and transportation. Efficient logistics enhances customer satisfaction by ensuring timely product availability and facilitates retailers in reducing operational costs and boosting profitability.

The integration of information technology and modern supply chain management systems is vital for monitoring the flow of goods in real time, minimizing waste, and adapting to fluctuations in market demand. Risk management and logistics cost control are essential to maintaining smooth operations and competitiveness within the retail landscape. Companies must identify, evaluate, and mitigate various risks that could disrupt the supply chain, such as supply interruptions, regulatory changes, natural disasters, and security threats. A robust mitigation strategy is key to ensuring distribution continuity and sustaining customer satisfaction.

Additionally, effective logistics cost management focuses on overseeing expenses throughout the supply chain in an integrated manner to enhance operational efficiency without compromising service quality. This approach enables companies to respond swiftly to dynamic market conditions, lower costs, and improve competitiveness. Both risk management and cost control are interconnected and significantly contribute to a company's sustainability and growth in a competitive market, both locally and internationally.

Compliance with regulations is crucial for preventing companies from encountering legal issues that could adversely affect their reputation and financial stability. Internal controls are essential for ensuring adherence to relevant regulations related to logistics management, product safety, data protection, and taxation. For instance, in goods distribution, internal controls can verify that the company complies with product safety standards during delivery, ensuring that shipped goods do not infringe on patent rights or fail to meet the quality standards established by regulators. Additionally, internal controls can track whether the company has fulfilled its tax obligations concerning the delivery and transactions of goods, thus avoiding tax-related issues that may lead to fines or legal repercussions. By establishing robust internal controls, retail companies can effectively reduce operational risks and logistics costs, ensuring that all activities are in compliance with relevant laws and regulations. This is vital for preserving the company's reputation among customers, regulators, and other stakeholders while promoting sustainable business continuity.

Theoretical Implication

This research enhances the theoretical framework surrounding internal control by emphasizing its significance in risk management and the reduction of logistics costs within the retail sector. The empirical insights provided strengthen the connection between internal control components such as the control environment, control activities, and monitoring and operational efficiency. Furthermore, the study contributes to the existing literature on retail logistics by offering a perspective on how information and communication technology can enhance internal control for achieving cost efficiency and improved risk management. Additionally, this study lays the groundwork for future research on the application of internal control across various industrial sectors, including manufacturing and banking, to examine different contexts and influencing factors.

Practical Implications

Implementing effective internal controls, such as the segregation of duties and continuous

monitoring, can significantly assist retail companies in mitigating storage, distribution, and inventory management risks. By leveraging information technology for real-time monitoring and optimizing distribution routes, companies can decrease operational waste and enhance the efficiency of their logistics budgets. An internal control system can also ensure that all logistics processes adhere to local and international regulations, minimizing the risk of legal sanctions and bolstering the company's reputation.

Furthermore, retail companies can foster greater transparency in their supply chains through structured and accountable reporting, which is essential for informed management decision-making and building trust with stakeholders. The findings from this research can guide logistics managers in developing sustainability-oriented internal control strategies, including integrating technologies such as blockchain and AI to ensure the reliability of logistics data. This approach enables retail companies to remain competitive despite increasingly complex operational challenges while promoting business sustainability.

Recommendation

Retail companies should implement internal controls to address operational needs, focusing on high-risk areas and significant logistics costs. Using a digital logistics management system can improve accuracy and efficiency. Training employees on their roles in internal control will also help reduce risks and enhance logistics management.

Limitations and avenue for future research

This study concentrated on a specific retail sector, which may limit its generalizability to other industries or markets. Future research should consider comparative studies on internal control within the manufacturing or banking sectors. Adopting a mixed-methods approach could deepen our understanding of the relationship between internal control, risk, and logistics costs. Furthermore, investigating the effects of AI and blockchain on internal controls in logistics, along with expanding studies on retail companies globally, could yield valuable insights into cultural and regulatory influences.

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