

**Analysis of the Implementation of Purchasing Information System Based on Enterprise Resource Planning (ERP) Using Microsoft Dynamics Nav Application (Case Study of PT. Simpang Kanan Lestarindo)****Ilhamzah Pahutar<sup>1\*</sup>, Meigia Nidya Sari<sup>2)</sup>**<sup>1,2)</sup>Department of Accounting, Faculty of Social Sciences, Pembangunan Panca Budi University, Indonesia

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E-mail : [ilhmzh98@gmail.com](mailto:ilhmzh98@gmail.com)**Abstract**

*Enterprise Resource Planning (ERP) is a vital component in improving company performance in today's digital era. PT Simpang Kanan Lestarindo implements an ERP-based purchasing information system using the Microsoft Dynamics NAV application to optimize the purchasing management process. Microsoft Dynamics NAV offers various features that support purchasing management, including purchase requests, purchase orders, goods receipt, purchase invoices, and payments. This research aims to analyze the effectiveness of the implementation of this information system in improving the efficiency and accuracy of the purchasing process in the company. The research method used is qualitative with a case study approach, which involves collecting data through interviews and observations. The results showed that the implementation of Microsoft Dynamics NAV has had a positive impact on the company's performance, despite some challenges in the system adaptation process. This research is expected to contribute to the development of science and become a reference for further research in the field of information systems and purchasing management.*

**Keywords : Enterprise Resource Planning, Microsoft Dynamics NAV, Purchasing Management.****INTRODUCTION**

In today's digital era, information technology plays a very important role in improving the efficiency and effectiveness of company operations. The rapid advancement of science and technology has affected every aspect of human life, including the business world. One technology that is widely used is Enterprise Resource Planning (ERP), which is an integrated information system that combines various business processes in one platform. This system is designed to help companies manage and optimize their resources more efficiently and effectively, as well as facilitate communication between departments in the organization.

PT Simpang Kanan Lestarindo, which operates in the Palm Oil sector, realized the importance of implementing an ERP system to improve the performance and efficiency of the purchasing process. By using Microsoft Dynamics NAV application, the company aims to overcome the problem of error-prone manual data entry and constraints on existing system features. Previously, the purchasing process was done manually using Microsoft Excel, which was not only time-consuming but also increased the risk of errors in recording transactions.

The implementation of Microsoft Dynamics NAV is expected to automate the entire purchasing process, from purchase requests to goods receipt, thus improving operational efficiency and data accuracy. With an integrated ERP system, PT Simpang Kanan Lestarindo can ensure that all purchasing-related information is accessible in real-time, supporting better decision making and responsive to dynamic business needs

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## RESEARCH METHODS

This research uses a qualitative approach with a case study method. The qualitative approach was chosen because it allows researchers to understand phenomena that occur in a natural context, and provides in-depth insight into the implementation of an Enterprise Resource Planning (ERP)-based purchasing information system at PT Simpang Kanan Lestarindo. According to Sugiyono (2019), qualitative methods are methods used to research natural conditions, where researchers act as key instruments in data collection.

In this study, researchers triangulated data collection techniques, which included interviews, observation, and document analysis. Interviews were conducted with employees involved in the purchasing process to obtain accurate and in-depth information. Observations were made to understand the flow and constraints in the purchasing process, while document analysis was used to collect data from reports and company policies.

The comparative method in this study is used to analyze the comparison between conditions before and after the implementation of an ERP-based purchasing information system using the Microsoft Dynamics NAV application at PT Simpang Kanan Lestarindo. This approach aims to identify changes that occur in the purchasing process, operational efficiency, and user satisfaction after the implementation of the ERP system. By using this method, researchers can clearly describe the impact of ERP system implementation on various relevant aspects of the company's business processes. The purpose of applying the comparative method is to provide a clear picture of the impact of ERP system implementation. By comparing before and after conditions, researchers can identify significant changes that occur in various aspects, such as the purchasing process, time efficiency, and data accuracy. Before the implementation, the purchasing process at PT Simpang Kanan Lestarindo was done manually using Microsoft Excel, which could potentially cause errors and be time-consuming. After ERP implementation, it is expected that this process will become more integrated and efficient, reducing time and errors in data entry.

## RESULTS AND DISCUSSION

The results showed that although there were challenges in the transition process, the longterm benefits of the ERP system were much more significant. The implementation of the ERP system, specifically Microsoft Dynamics NAV, has improved efficiency in the purchasing process. Processes that were previously done manually have now been automated, which reduces errors in data entry and speeds up transaction turnaround time. This is in line with the main objective of ERP systems to integrate various business functions in one platform, thereby increasing productivity and operational efficiency.

ERP systems also have a positive impact on inventory management. With better visibility into inventory data, companies can exercise more effective control, reduce storage costs, and minimize the risk of stock-outs. Accurate and real-time information allows management to make more informed decisions regarding procurement and resource management.

In terms of decision-making, ERP systems provide more accurate and faster reports, supporting management in formulating business strategies. With integrated information from various departments, management can conduct more in-depth analysis and make more informed decisions.

While the benefits are considerable, the challenges of transition are worth noting. Employees require adequate training to adapt to the new system, and companies must be prepared to face significant start-up costs to ensure successful implementation. Overall, the implementation of the ERP system at PT Simpang Kanan Lestarindo has provided substantial benefits in improving efficiency, effectiveness, and information management, which ultimately contributes to the overall success of the company

## CONCLUSION

Based on the results of the analysis conducted, it can be concluded that the implementation of the ERP system at PT Simpang Kanan Lestarindo has a significant positive impact on the company's operational efficiency. Although there are challenges in the transition process, such as customizing the existing system, the long-term benefits of this system are far greater. ERP systems, specifically Microsoft Dynamics NAV, have successfully improved the efficiency of purchasing, inventory management, and managerial decision-making. With integrated and accurate information, management can make better and strategic decisions, ultimately contributing to the overall success of the company.

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