



OPTIMIZATION OF MANAGEMENT INFORMATION SYSTEMS IN IMPROVING ACCURACY AND EFFICIENCY OF ACCOUNTING REPORTING: LITERATURE STUDY AND IMPLEMENTATION ANALYSIS

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Abstract

This study aims to analyze the role of Management Information Systems (MIS) in accounting reporting in the public and private sectors. Through a literature review and a descriptive qualitative approach, it was found that the implementation of MIS significantly contributes to the efficiency, accuracy, and speed of the financial reporting process. This study highlights implementation challenges and system optimization strategies to support better decision-making.

Keywords: Management Information System, Accounting, Efficiency, Accuracy, Financial Reporting

INTRODUCTION

The rapid development of information technology has changed the paradigm of financial management and reporting in various organizations, both in the public and private sectors. Management information systems (MIS) are now an integral part of the accounting data processing process, supporting accurate and rapid decision-making, and ensuring the sustainability of organizational operations (O'Brien & Marakas, 2011). Effective MIS implementation can improve financial data accuracy, accelerate the reporting process, and minimize human error and both accidental and intentional fraud. In the context of accounting and financial reporting, data accuracy and speed are crucial because they are directly related to strategic decision-making, regulatory compliance, and transparency to stakeholders. Accurate and efficient financial reporting can also increase stakeholder trust in the organization and support good corporate governance (Laudon & Laudon, 2018). Therefore, increasing efficiency and accuracy in the reporting process through MIS optimization is a top priority for companies and organizations oriented towards sustainability and competitiveness.

However, the implementation of these systems does not always run smoothly. Various challenges arise, such as the need for adequate human resource training, integration with legacy systems, the sustainability of technological infrastructure, and aspects of data security and confidentiality (Sutia et al., 2020). Furthermore, organizational changes towards the use of technology-based MIS often encounter resistance from staff and management accustomed to manual or traditional systems. In this context, literature studies and implementation analysis are essential to identify key success factors and obstacles in optimizing MIS for accounting reporting. This is necessary so that organizations can design appropriate strategies to improve the quality of financial reporting while optimizing existing resources. This study aims to present a comprehensive overview of the theory and practice related to the application of MIS to support the accuracy and efficiency of accounting reporting and provide practical recommendations based on experience and case studies. Furthermore, technological developments such as automation, cloud computing, blockchain, and artificial intelligence (AI) are increasingly expanding the range of technologies available for use in financial information systems. However, adopting these technologies also brings its own challenges, including cost, human resource adaptation, and data security risk management. Therefore, it is crucial to conduct an in-depth study of MIS optimization to address these challenges and position organizations more competitively and responsively to the dynamics of economic and technological globalization. By deepening the literature and analyzing implementations in various organizational con-

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texts, it is hoped that best practices, strategies, and innovative solutions can be identified tailored to the needs of each entity. This is expected to improve data accuracy, accelerate reporting processes, and reduce operational costs, resulting in a more reliable and efficient financial reporting system.

LITERATURE REVIEW

A Management Information System (MIS) is a combination of people, technology, and procedures designed to produce information useful for decision-making. In the accounting context, MIS refers to a computer-based system that enables the collection, storage, and analysis of financial data. According to Bodnar and Hopwood (2010), an accounting MIS is a system that collects and processes financial and non-financial data used by management in business decision-making. MIS plays a crucial role in providing accurate and timely information. The literature indicates that implementing MIS can improve operational efficiency, improve financial reporting transparency, and facilitate internal audits and oversight. Technologies such as Enterprise Resource Planning (ERP), cloud-based systems, and Big Data integration are also beginning to be adopted to improve the performance of accounting information systems.

METHODS

This research uses a descriptive qualitative approach using a literature review method. Data were obtained from national and international scientific journals, textbooks, and relevant financial institution reports. The analysis was conducted by reviewing MIS practices and implementation in various organizations, both in the public and private sectors.

RESULT AND DISCUSSION

The Role of MIS in Accounting Systems

MIS plays a key role in supporting systematic, efficient, and accurate financial reporting. MIS automates the process of recording financial transactions, reducing human error and accelerating the preparation of financial reports. Furthermore, MIS assists in budget planning, cost control, and financial performance analysis. The real-time reporting functionality offered by MIS is crucial for responding to changing market conditions and supporting strategic managerial decisions.

Implementation of SIM in Private Companies

Many private companies have adopted ERP systems or accounting software such as SAP, Oracle Financials, and QuickBooks to manage their financial data. MIS implementation in private companies typically aims to integrate various business processes such as purchasing, sales, finance, and HR into a single system. Research by Pratama (2021) shows that companies using MIS experience up to a 30% increase in financial reporting efficiency and a 40% reduction in data input errors.

Implementation of SIM in the Public Sector

In the public sector, MIS is used to improve transparency, accountability, and efficiency in state financial management. Systems such as SIMDA (Regional Management Information System), SAKTI (Agency-Level Financial Application System), and SIPKD (Regional Financial Management Information System) are examples of MIS implementations within the government. According to the Ministry of Home Affairs, the implementation of SIMDA has assisted local governments in preparing financial reports in accordance with government accounting standards (SAP) and streamlined the audit process by the Supreme Audit Agency (BPK). However, challenges remain, such as a lack of human resource training and limited technological infrastructure.

Case Study: Implementation of SIMDA in Local Government

Research conducted by Lestari (2022) shows that the implementation of SIMDA in the Surakarta City Government significantly impacted the timeliness and completeness of regional financial reports. Prior to the use of SIMDA, financial reports were often delayed due to time-consuming manual processes. After the use of SIMDA, financial reporting became faster, data more accurate, and financial monitoring became easier. However, regular training for regional officials is still needed to ensure the system operates optimally.

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Challenges and Solutions for SIM Implementation

Although SIM provides many benefits, its implementation is not without various challenges, including:

- Lack of competent human resources in operating the system
- Dependence on external vendors
- High implementation and maintenance costs
- Internal resistance to technological change

Solutions that can be implemented include regular HR training, gradual system development, collaboration with universities, and strengthening regulations and supporting policies in the field of information technology.

The Impact of SIM on Decision Making

One of the primary benefits of an MIS is its ability to provide accurate, relevant, and real-time data, essential for decision-making. The financial information generated by an MIS assists management in determining business strategies, budget allocations, and performance evaluations. With management dashboards and analytical reports, organizational leaders can make financial predictions, improve budget planning, and avoid errors caused by inaccurate data.

Evaluation of SIM Effectiveness

The effectiveness of SIM can be measured through several indicators, including:

- Timeliness in preparing financial reports
- Data input error rate
- System user satisfaction
- Efficiency of time and operational costs

According to a study conducted by Ramadhani (2023), organizations that use MIS experience a 35% increase in financial reporting efficiency and a 45% reduction in accounting errors.

CONCLUSION

Management Information Systems (MIS) make a significant contribution to improving the efficiency, accuracy, and transparency of financial reporting in both the public and private sectors. While implementation challenges, such as limited human resources and infrastructure, the benefits are far greater when these systems are optimized. Management support, regular training, and continuous technology development are key to the success of MIS implementation in accounting. Therefore, every organization needs to make MIS an integral part of its financial management system.

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