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## LITERATURE REVIEW ON THE ROLE OF DIGITAL TRANSFORMATION IN IMPROVING ORGANIZATIONAL PERFORMANCE

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### *Abstrak*

Digital transformation has become a key factor in improving organizational performance in the modern era. This study aims to conduct a systematic literature review on the role of digital transformation in enhancing operational efficiency, innovation, and customer satisfaction. The findings reveal that adopting technologies such as big data, cloud computing, the Internet of Things (IoT), and artificial intelligence can boost productivity, accelerate data-driven decision-making, and create new value for customers. However, the process faces challenges, including resistance to change, high investment costs, and data security risks. Key success factors include digital leadership, organizational readiness, and effective change management. This review provides strategic insights for organizations to develop successful digital transformation initiatives and identifies opportunities for future research in diverse industrial and geographical contexts.

**Keyword :** Digital transformation, organizational performance, operational efficiency, innovation, customer satisfaction.

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### INTRODUCTION

Digital transformation has become one of the key trends in business and organizations in the modern era. With the rapid development of information and communication technology, organizations are under pressure to adopt digital technologies to remain competitive in the global market. Digital transformation refers to the process of integrating digital technologies into all operational aspects of an organization, with the aim of enhancing efficiency, innovation, and overall performance. This process involves fundamental changes in how organizations operate, including the adoption of technologies such as big data, cloud computing, the Internet of Things (IoT), and artificial intelligence (Vial, 2019; Westerman et al., 2014).

In the organizational context, digital transformation not only affects technological aspects but also requires changes in culture, organizational structure, and business processes. Organizations that successfully undergo digital transformation tend to show significant improvements in performance, in terms of productivity, innovation, and customer satisfaction (Fitzgerald et al., 2014; Hess et al., 2016). However, digital transformation also presents challenges, such as the need for new skills, large investments in technology, and resistance to change among employees (Kane et al., 2015; Sebastian et al., 2017).

Previous research has shown that digital transformation plays a crucial role in improving organizational performance, particularly through the optimization of processes, data-driven decision-making, and the creation of new value for customers (Bharadwaj et al., 2013;

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Verhoef et al., 2021). However, the existing literature is often fragmented and lacks a holistic view of how digital transformation impacts organizational performance across various industries and geographical contexts (Yoo et al., 2010; Matt et al., 2015).

This study aims to conduct a comprehensive literature review on the role of digital transformation in enhancing organizational performance. By analyzing various previous studies, this research will identify patterns, key success factors, and major challenges faced by organizations in the digital transformation process. Additionally, this study will provide insights into future research opportunities to support the development of more effective digital transformation strategies (Henriette et al., 2015; Wessel et al., 2021).

## RESEARCH METHODS

This study uses a systematic literature review method to analyze the role of digital transformation in improving organizational performance. This approach was chosen because it provides a comprehensive overview based on relevant studies and identifies patterns, key findings, and research gaps in this field. The following are the steps undertaken in this research methodology:

1. Identifying the Research Problem

The initial stage of the research begins with formulating the main research question, which is: "How does digital transformation affect organizational performance?" This question serves as the foundation for defining the scope of the study.

2. Literature Search

The literature search was conducted through academic databases such as Scopus, Web of Science, IEEE Xplore, and Google Scholar. Keywords used included "digital transformation," "organizational performance," "digital transformation," and "organizational performance." The selected literature includes scholarly journals, conference proceedings, and books published between 2010 and 2023.

3. Literature Selection

Literature selection was based on the following inclusion and exclusion criteria

- Inclusion Criteria: Articles relevant to the research topic, available in English or Indonesian, and including empirical studies or literature reviews related to digital transformation.
- Exclusion Criteria: Articles that do not provide empirical data, are non-academic, or only discuss technological aspects without relating them to organizational performance.

4. Data Analysis

The selected articles were analyzed using a thematic approach. This stage involved coding data to identify key themes, such as the impact of digital transformation on operational efficiency, innovation, and customer satisfaction. The analysis also included grouping the success factors and main challenges in the digital transformation process.

5. Synthesis of Findings

The findings from the analyzed literature were synthesized to provide a holistic view of the role of digital transformation in improving organizational performance. This process involved comparing findings across studies and identifying consistent trends or patterns.

## 6. Validation and Triangulation

To ensure the validity of the research results, triangulation was conducted by comparing the findings of this study with the results of previous studies with high relevance. Additionally, discussions with experts in the field of digital transformation were held to obtain further insights.

## RESULTS AND DISCUSSION

The findings of this study are based on an analysis of relevant literature on the role of digital transformation in improving organizational performance. The main findings identified are as follows:

### 1. Impact of Digital Transformation on Organizational Performance

Studies indicate that digital transformation significantly influences organizational performance, particularly in three main aspects:

- **Operational Efficiency**  
Digital transformation enables business process automation, cost reduction, and faster service delivery (Vial, 2019; Westerman et al., 2014). For instance, adopting cloud-based technologies and IoT has enhanced data integration and coordination across various departments in companies.
- **Innovation**  
Digital technologies facilitate the development of new products and services through real-time customer data analysis and improved cross-functional collaboration (Bharadwaj et al., 2013; Verhoef et al., 2021).
- **Customer Satisfaction**  
Digitalization allows for more personalized and responsive customer experiences, which in turn increases customer loyalty (Henriette et al., 2015).

### 2. Key Success Factors for Digital Transformation

From the analyzed literature, several factors contribute to successful digital transformation:

- **Digital Leadership**  
Support from organizational leaders, particularly in providing strategic vision and adequate resources, is crucial for success (Kane et al., 2015).
- **Organizational Readiness**  
Factors such as a culture of innovation, employees' digital skills, and adequate technological infrastructure play an essential role in the transformation process (Matt et al., 2015; Hess et al., 2016).
- **Change Management**  
Organizations that manage resistance to change effectively through clear communication and employee training have higher chances of success (Sebastian et al., 2017).

### 3. Challenges in Digital Transformation

Despite its many benefits, digital transformation also presents various challenges, including:

- **Resistance to Change**  
Many organizations face internal barriers in the form of employees' unwillingness to abandon traditional working methods (Yoo et al., 2010).
- **Investment Costs**  
The transformation process requires significant upfront investment, both in technology and employee training (Hess et al., 2016).

- **Data Security**

The adoption of digital technologies increases the risk of cyber threats, particularly for organizations without adequate data protection systems (Wessel et al., 2021).

## **Discussion**

The results of this literature review demonstrate that digital transformation is a strategic step that not only impacts operational efficiency but also drives innovation and customer satisfaction. However, the success of digital transformation heavily depends on organizational readiness, leadership support, and effective change management.

Moving forward, organizations need to develop strategies that are adaptive to technological advancements and market demands. Moreover, focusing on developing employees' digital skills and investing in technological infrastructure are critical for supporting successful digital transformation.

Overall, these findings provide important insights for organizations aiming to initiate or accelerate digital transformation processes. This study also opens opportunities for further in-depth research on the implementation of digital technologies in more specific contexts, such as industrial sectors or particular geographical regions.

## **CONCLUSION**

This study highlights the significant role of digital transformation in enhancing organizational performance, as revealed through a systematic review of the literature. The key findings indicate that digital transformation positively impacts operational efficiency, innovation, and customer satisfaction. By automating processes, enabling data-driven decision-making, and facilitating the development of new products and services, digital technologies serve as a critical driver for organizational success in the modern era.

Several factors contribute to successful digital transformation, including strong digital leadership, organizational readiness, and effective change management. Leadership provides the vision and resources necessary for transformation, while readiness ensures the cultural, technical, and human resource capabilities to support change. Change management addresses resistance and fosters a smooth transition to digitalized processes.

However, the process is not without challenges. High investment costs, employee resistance, and data security concerns remain significant obstacles for organizations. Addressing these challenges requires strategic planning, ongoing training, and robust cybersecurity measures.

Overall, digital transformation represents a strategic imperative for organizations seeking to remain competitive in a rapidly evolving business landscape. This study contributes to the understanding of its impact and offers a foundation for future research aimed at exploring the nuances of digital transformation across various industries and regions. Organizations are encouraged to prioritize digital innovation and adapt proactively to technological advancements to maximize the benefits of digital transformation..

## **SUGGESTION**

Based on the findings of the literature review, several suggestions for future research are proposed to broaden understanding and contribute further to the study of digital transformation in enhancing organizational performance:

1. Future studies can focus on empirical analyses of the impact of digital transformation across various industrial sectors, such as manufacturing, healthcare, education, and

financial services. This is essential to identify variations in how digital transformation influences organizational performance in specific sectors.

2. Further research can explore differences in the implementation and impact of digital transformation across geographic regions, particularly in developing countries that face unique challenges such as limited technological infrastructure and cultural resistance.
3. Upcoming studies can develop approaches that integrate technological aspects, change management, and digital leadership to understand how these elements collectively influence the success of digital transformation.
4. Most current research focuses on the short-term effects of digital transformation. Future research can investigate the long-term impact, including the sustainability of innovation, adaptation to technological changes, and contributions to organizational profitability.

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