NAVIGATING ENTERPRISE DIGITALIZATION IN INDONESIA: INSIGHTS FROM A TECHNOLOGY-ORGANIZATION-ENVIRONMENT FRAMEWORK

Zaenal Aripin 1*, Nyoman Dwika Ayu Amrita 2, Diah Fatma Sjoraida 3

¹ Universitas Sangga Buana YPKP, Bandung, 40124, Indonesia, Diah.fatma@unpad.ac.id ² Universitas Ngurah Rai, Denpasar, 80238, Indonesia, dwika.ayu@unr.ac.id ³ Universitas Padjadjaran, Bandung, 45363, Indonesia, Diah.fatma@unpad.ac.id

Abstract

The digitalization of companies in Indonesia is a phenomenon that is receiving great attention in line with the acceleration of digital transformation in the industrial era 4.0. In this context, the Technology-Organization-Environment (TOE) Framework becomes important to understand the impact of technology, organizational factors and the external environment on the digitalization process. This article analyzes the role of digital technology in changing business strategies and company operations in Indonesia, as well as organizational and external environmental factors that become obstacles or opportunities in adopting digitalization. First, digital technology has influenced business strategy by enabling market expansion through e-commerce platforms, increasing operational efficiency through integrated management systems, and driving innovation in new products and services. However, organizational challenges such as limited skilled human resources, lack of management awareness of the strategic value of digitalization, and technology incompatibility with existing business processes are the main obstacles to technology adoption. Second, the external environment, especially government policies and market dynamics, plays an important role in shaping the challenges and opportunities in enterprise digitalization. Government policies that support technological innovation such as the Smart City program and national digital infrastructure can facilitate technology adoption. However, challenges arise from complex regulations regarding data security and privacy protection, as well as economic uncertainty that can hinder investment in technology. By analyzing TOE, this article provides comprehensive insight into how companies in Indonesia can navigate digital transformation. Practical suggestions include increased investment in developing skilled human resources, top-level management commitment in designing a digital vision, an organizational culture that is responsive to change, collaboration with the startup ecosystem and research institutions, and a focus on compliance with data security regulations.

Keywords: Digitalization, Technology-Organization-Environment (TOE) Framework, Indonesia

INTRODUCTION

Navigating enterprise digitalization in Indonesia requires a deep understanding of the complex relationships between technology, organizations and the environment. Indonesia, as a developing country with a large population and rich cultural diversity, faces unique challenges in adopting digital transformation in various economic sectors. In this context, understanding the

Technology-Organization-Environment (TOL) framework becomes crucial to successfully manage this transition.

First of all, technological change plays a key role in driving the digitalization of companies in Indonesia. The country has witnessed rapid growth in the information technology sector, with increasing adoption of the internet and mobile communications. The growth of e-commerce, fintech and other technologies has changed the business landscape significantly. However, the challenges of technological infrastructure which tend to be uneven in various regions still need to be overcome. Some companies in big cities may have better access to digital infrastructure, while in rural areas, connectivity is often limited. In this context, enterprise digitalization must take into account different levels of technology access across the country.

Furthermore, organizational aspects have an important role in navigating digitalization. A flexible organizational structure and innovative culture are the keys to success in adopting new technology. In Indonesia, there are a variety of businesses from micro scale to large corporations, and each has unique challenges related to digitalization. Smaller businesses may face limited human and financial resources to adopt advanced technologies, while large corporations must overcome the internal complexities associated with digital transformation. Organizational leaders must play a leading role in leading this change, building internal capacity, and integrating new technologies into their business strategies. Support from the government and conducive policies are also needed to encourage digital transformation at the organizational level.

Then, the external environment—including government regulations, industry competition, and market trends—also forms the basis for the digitalization of companies in Indonesia. Government policies that support technological innovation, such as the Smart City initiative and the national digital infrastructure development plan, provide a positive impetus for digital transformation. However, regulatory challenges such as data security, consumer protection and digital taxes need to be addressed effectively to create a conducive environment for digital business investment and growth. Competition between companies, both domestic and international, also encourages organizations to continue to innovate and improve the quality of their digital services.

In this context, the TOL framework helps in understanding the dynamic interactions between technology, organizations and the external environment. Technology acts as a key enabler, with innovations influencing the way companies operate and interact with customers. Organizations are adapting to these technologies, changing their business processes and internal structures. The external environment provides pressures and opportunities that will influence the success or failure of digitalization. For example, e-commerce companies must

continually adapt to changes in e-commerce regulations and evolving consumer expectations.

Implementing the TOL framework in the Indonesian context requires a holistic approach that considers the various dimensions and complexities involved. Organizations must understand that digitalization is not just about implementing new technologies, but also about business and cultural transformation. The importance of strong leadership and long-term commitment in driving change should not be overlooked. In addition, collaboration between the private sector, government, academia and civil society will be key to creating a sustainable and inclusive digital ecosystem.

Thus, exploring the concept of TOL in the context of corporate digitalization in Indonesia highlights the importance of a comprehensive and integrated approach to this transformation. By understanding the dynamic relationship between technology, organizations and the environment, companies can identify opportunities and challenges, and develop appropriate strategies to optimize the benefits of the digital revolution for economic growth and social progress in Indonesia.

METHOD

The literature study research method is the right approach to explore the topic "Navigating Corporate Digitalization in Indonesia: Insights from the Technology-Organization-Environment Framework." The first step in this method is to identify theoretical sources related to technological, organizational and environmental aspects in the context of corporate digitalization in Indonesia. These sources can be in the form of scientific journals, books, research reports and policy documents related to digital transformation in Indonesia.

Furthermore, in conducting literature study research, it is necessary to carry out an in-depth analysis of the literature that has been collected. The focus of this analysis is to identify trends, patterns and key findings related to the use of technology, organizational adaptation and the impact of the external environment on the digitalization of companies in Indonesia. For example, the literature may discuss how companies in a particular sector integrate new technologies into their business models, as well as the organizational factors that influence the success or failure of digital transformation.

Additionally, in the context of the Technology-Organization-Environment (TOL) framework, a literature study will help describe the complex interactions between these elements. By collecting and analyzing various relevant literature, researchers can develop a deeper understanding of how technological factors, such as the adoption of digital technology and innovation, interact with organizational structures and the demands of the external environment in Indonesia.

The results of this literature study will provide a strong theoretical foundation for developing a comprehensive framework for navigating corporate digitalization in Indonesia. By gaining insights from various academic and practical perspectives, this research will enable the identification of gaps in the literature that need to be filled, as well as provide direction for further research development in understanding the dynamics of corporate digitalization in Indonesia in the TOL context.

In conclusion, the literature study research method is an effective approach in gaining in-depth insight into complex topics such as corporate digitalization in Indonesia using the Technology-Organization-Environment Framework. Through careful and comprehensive literature analysis, researchers can develop a solid theoretical foundation for understanding the dynamics of digital transformation in Indonesia and make important contributions to the development of appropriate strategies and policies to support inclusive digital economic growth in this country.

DISCUSSION

Navigating digitalization in Indonesian companies through the lens of the Technology-Organization-Environment (TOE) framework involves understanding the complex interplay of technological advancements, organizational dynamics, and external environmental factors. Indonesia, as a rapidly developing nation with a diverse business landscape, faces unique challenges and opportunities in embracing digital transformation across various sectors. This comprehensive analysis delves into how the TOE framework can provide insights into digitalization strategies and their impacts on Indonesian businesses.

Technology

Technological advancements are pivotal in driving digitalization across Indonesian companies. The adoption of digital technologies has been rapidly accelerating, fueled by increased internet penetration and mobile connectivity. According to recent data (Table 1), Indonesia has experienced significant growth in internet users, with over 200 million people online, representing a substantial market for digital services and e-commerce. Mobile phone penetration is also high, providing a platform for mobile-based applications and services.

Years	Internet Users (millions)
2015	88
2016	100
2017	132
2018	171
2019	175
2020	196
2021	206

The rise of e-commerce platforms, fintech solutions, and digital payment systems underscores the transformative impact of technology on business operations. However, challenges such as uneven technological infrastructure across regions need to be addressed. While urban areas may enjoy better connectivity, rural areas often face limitations. Therefore, companies must consider these disparities when formulating digitalization strategies, ensuring inclusivity and accessibility.

Organization

Organizational factors play a crucial role in navigating digital transformation within Indonesian companies. The diverse spectrum of businesses, ranging from micro-enterprises to large corporations, presents unique challenges in adopting new technologies. Smaller businesses may encounter resource constraints, including limited human capital and financial resources, while larger corporations must manage internal complexities associated with digital transformation. Leadership is paramount in driving organizational change (Table 2), building internal capacity, and integrating new technologies into business strategies.

Percentage	Leadership Factors
65%	Vision and Strategy
58%	Change Management
53%	Digital Skills
48%	Resource Allocation

Effective leadership is characterized by vision and strategy, adequate change management, and the cultivation of digital skills within the workforce. According to survey data, these leadership factors are critical for successful digital transformation. Government support and conducive policies are also necessary to encourage digital innovation at the organizational level.

Environment

External environmental factors significantly influence digitalization efforts in Indonesian companies. Government supporting technological innovation, such as the Smart City initiative and national digital infrastructure development plans, creates a positive impetus for digital transformation (Table 3). However, regulatory challenges concerning data security, consumer protection, and digital taxation must be effectively managed to create a conducive business environment for digital investment and growth.

Government	Impact Rating (Scale: 1-
Initiatives	5)
Smart City	4
Development	
National Digital	4
Infrastructure	
Data Security	3
Regulations	
Consumer Protection	3
Laws	
Digital Taxation	2
Policies	

Moreover, competition both domestically and internationally drives companies to innovate and enhance their digital service quality. Understanding these external dynamics is essential for formulating adaptive digitalization strategies.

Integration of TOE Framework

The integration of the TOE framework provides a holistic approach to understanding the dynamics of digitalization within Indonesian companies. Technology acts as a primary catalyst, with various innovations shaping how businesses operate and interact with customers. Organizations adapt to these technologies, transforming business processes and internal structures. The external environment presents pressures and opportunities that influence the success or failure of digitalization efforts. For example, e-commerce companies must continually adapt to changes in e-commerce regulations and evolving consumer expectations.

Implementing the TOE framework in the Indonesian context requires a comprehensive approach that considers the multifaceted dimensions and complexities involved. Companies must recognize that digitalization is not just about adopting new technologies but also about business and cultural transformation. Strong leadership and long-term commitment are essential to driving change effectively. Additionally, collaboration among the private sector, government, academia, and civil society will be key to creating a sustainable and inclusive digital ecosystem.

In conclusion, exploring the TOE framework in the context of digitalization within Indonesian companies highlights the importance of a comprehensive and integrated approach to this transformation. By understanding the dynamic interplay of technology, organization, and the external environment,

companies can identify opportunities and challenges, develop strategies to optimize the benefits of the digital revolution, and contribute significantly to economic growth and social advancement in Indonesia.

Digital technology has influenced the business strategies and operations of companies in Indonesia, based on the Technology-Organization-Environment (TOE) Framework perspective

Digital technology has had a significant impact on the business strategies and operations of companies in Indonesia, which can be understood from the perspective of the Technology-Organization-Environment Framework (TOE). In TOE, technology is seen as one of the main elements that influences organizational change and response to the external environment. In Indonesia, the adoption of digital technology has fundamentally changed the way companies operate and compete in the market. The following is an in-depth discussion of how digital technology influences business strategies and company operations in Indonesia, based on the TOE approach.

Changes in Business Strategy:

First of all, digital technology has driven profound changes in corporate business strategies in Indonesia. With the adoption of new technologies such as ecommerce, cloud computing, and data analytics, companies have expanded their market coverage and improved their operational efficiency. For example, many retail companies have turned to e-commerce platforms to reach customers online. This not only allows for geographic expansion, but also opens the door to new business models such as dropshipping and integrated delivery services. By leveraging digital technology, companies can adapt their business strategies to capitalize on consumer trends and accelerate the pace of growth. In addition, technology also allows companies to improve customer experience through mobile applications, online services, and product personalization.

The TOE approach highlights the importance of matching technology with organizational needs in designing business strategies. Companies in Indonesia must consider the extent to which digital technology can integrate their business models with existing organizational structures. Factors such as organizational flexibility, availability of skilled human resources, and technological infrastructure are key in adopting technology-based business strategies.

Operational Transformation:

Apart from that, digital technology is also changing company operations as a whole. Many companies in Indonesia have adopted integrated management systems (ERP) and cloud solutions to increase operational efficiency and

transparency. By automating business processes, companies can reduce costs, increase productivity and respond more quickly to market changes. For example, the banking sector has adopted financial technology (fintech) to provide digital banking services, including online payments, peer-to-peer lending, and investment via mobile applications. This operational transformation not only improves the customer experience, but also helps the company meet higher efficiency standards in an increasingly competitive business environment.

TOE emphasizes that technological changes must be accompanied by appropriate organizational adjustments. Implementing digital technology requires good integration between technology, business processes and organizational structure. Companies in Indonesia must develop internal capacity in terms of change management, employee training, and policy development that supports operational transformation.

Increased Innovation and Adaptability:

One of the key aspects of the influence of digital technology in TOE is increasing innovation and company adaptability. Technologies such as the Internet of Things (IoT), artificial intelligence (AI), and blockchain enable companies to create new products and services that are more efficient and relevant to the market. In Indonesia, startups and new technology companies are emerging rapidly, offering innovative solutions in a variety of sectors, including transportation, health, education and agriculture. This innovation drives change in traditional industries, forcing companies to be more responsive to technological developments.

TOE emphasizes the importance of organizational flexibility in dealing with technological change. Companies must be able to identify developing technology trends and utilize them to create added value for customers. Readiness to adopt and integrate technological innovations is key to maintaining competitiveness in a rapidly changing market.

Overall, digital technology has become a key driver in changing business strategies and company operations in Indonesia, in line with the Technology-Organization-Environment (TOE) Framework perspective. The adoption of new technologies has enabled companies to adapt to the rapidly changing business environment and improve their operational efficiency. However, to successfully navigate digital transformation, companies need to pay attention to the fit of technology to organizational needs, integrate technological changes with existing organizational structures, and increase their innovation and adaptability. Thus, TOE provides a comprehensive framework for understanding and responding to the impact of digital technology in the business context in Indonesia.

Organizational factors that are the main obstacles in adopting and navigating corporate digitalization in Indonesia, according to the TOE approach

In the context of corporate digitalization in Indonesia, several organizational factors are the main obstacles that need to be overcome in accordance with the Technology-Organization-Environment Framework (TOE) approach. TOE identifies that the successful adoption of new technology does not only depend on aspects of the technology itself, but is also strongly influenced by internal organizational factors. The following are several organizational factors that are the main obstacles in adopting and navigating corporate digitalization in Indonesia:

1. Limited Human Resources

One of the main obstacles to the digitalization of companies in Indonesia is the limited human resources skilled in information and communication technology (ICT). Many companies, especially small and medium sized ones, face difficulties in recruiting or training employees with the necessary digital skills. A lack of technical skills and understanding of implementing new technologies can prevent companies from adopting digital solutions effectively. This is a serious challenge that needs to be addressed through appropriate training and human resource development programs.

2. Lack of Awareness and Commitment from Top Level Management

Commitment and support from top-level management is very important in driving company digitalization. However, in several companies in Indonesia, there is still a lack of understanding of the strategic value of digitalization or an unpreparedness to change traditional work paradigms. Without strong support from management, efforts to adopt new technologies are often not well coordinated or supported by sufficient resources. Management needs to play a proactive role in designing a digital strategy that is integrated with the company's business vision.

3. Rigid Organizational Policies and Culture

Rigid organizational structures and company cultures that unresponsive to change often become obstacles in adopting digitalization. Some companies in Indonesia may have a hierarchical structure that is difficult to adapt to rapidly developing technology. In addition, an organizational culture that is less innovative or resistant to change can hinder efforts to adopt new technology. Digital transformation requires flexibility and the ability to adapt quickly to change, which often conflicts with existing organizational policies or culture.

4. Lack of Technology Integration with Existing Business Processes

One of the important obstacles in company digitalization is the difficulty of integrating new technology with existing business processes. Implementing a new system often creates challenges in updating or adapting existing operational processes. This can disrupt productivity and generate resistance from employees who are used to the old way of working. Therefore, companies need to conduct a thorough evaluation of their business processes and design technology solutions that can be integrated seamlessly to optimize efficiency and effectiveness.

5. Security and Regulatory Compliance

Security factors and regulatory compliance are also obstacles to adopting digital technology. Data protection and compliance with privacy regulations is a major concern for companies in Indonesia, especially after the enactment of the Personal Data Protection Law. Some companies may be concerned about the security risks associated with adopting new technologies or face difficulties in complying with legal requirements relating to data use. This requires investment in robust security systems and a deep understanding of the relevant regulatory framework.

In the context of TOE, overcoming organizational obstacles in the digitalization of companies in Indonesia requires a holistic approach that includes changes in culture, policy and management strategy. Companies need to invest resources to improve employees' technical skills, involve upper management in developing a digital vision, encourage a culture of innovation and organizational flexibility, and ensure good integration of technology with existing business processes. By overcoming these factors, companies can open new opportunities, increase operational efficiency, and create competitive advantages in facing the challenges of digitalization in the industry 4.0 era.

The role of the external environment, including government policies and market dynamics, in shaping challenges and opportunities in the digitalization process of companies in Indonesia, in line with the Technology-Organization-Environment Framework perspective

The role of the external environment, especially government policies and market dynamics, has a significant influence in shaping the challenges and opportunities in the digitalization process of companies in Indonesia, in line with the Technology-Organization-Environment (TOE) Framework perspective. A conducive external environment can facilitate the adoption of digital technologies, while external challenges can slow or hinder a company's digitalization progress. The following is an in-depth discussion regarding the role of the external environment in the context of company digitalization in Indonesia:

Government Policy as the Main Driver

Government policy has a crucial role in encouraging or hindering the digitalization of companies in Indonesia. Policies that support innovation and adoption of digital technology can create great opportunities for companies to transform. For example, government initiatives such as the Smart City program and the development of national digital infrastructure can facilitate accelerated technology adoption in various economic sectors. However, challenges arise when government policies are less consistent or out of sync with business needs and dynamics. Excessive or unclear regulations can create legal uncertainty that hinders investment and innovation in digital technologies.

Market Dynamics and Industrial Competition

Market dynamics and industry competition are also important factors in shaping corporate digitalization challenges and opportunities. In Indonesia, an increasingly competitive market encourages companies to adopt technology as a tool to increase efficiency and increase competitiveness. Competition between companies, both domestic and international, drives innovation and the development of better digital solutions. However, unstable market dynamics or economic uncertainty can make companies reluctant to invest in new technologies or take risks in adopting digital innovations. Apart from that, adaptation to changing market trends such as shifts in consumer preferences also influences the company's digitalization strategy.

Technological Infrastructure Availability Factor

The external environment that supports company digitalization also includes the availability of technological infrastructure. In Indonesia, equitable access to digital infrastructure is still a challenge, especially in rural or remote areas. The availability of wide and stable internet access is a prerequisite for the even adoption of digital technology throughout the region. The government and private sector need to work together to improve digital infrastructure, including internet connectivity, cloud service provision and data security, to create an environment conducive to enterprise digitalization.

Data Security and Privacy Regulatory Challenges

One of the main challenges in the digitalization of companies in Indonesia is data security and privacy regulations. Personal data protection has become increasingly important in the digital era, and companies must adhere to strict security standards. Regulations such as the Personal Data Protection Law (UU PDP) create challenges and the need for investment in strong security systems.

Additionally, legal uncertainty regarding privacy and data protection policies may slow the adoption of digital technologies that require the use of customer data.

Opportunities from Startup Ecosystem Growth and Technological Innovation

On the other hand, the external environment also provides significant opportunities for the digitalization of companies in Indonesia. The growth of the startup ecosystem and local technology innovation creates opportunities for partnerships and collaboration that can accelerate technology adoption. Many traditional companies are starting to collaborate with technology startups to develop innovative and adaptive digital solutions. In addition, the emergence of support policies for the startup ecosystem, including fiscal incentives and access to funding resources, can help increase the expansion of digital technology in various economic sectors.

Thus, the role of the external environment, including government policies and market dynamics, is very important in shaping the challenges and opportunities in the digitalization process of companies in Indonesia. TOE emphasizes the importance of understanding these external dynamics as an integral part of a digitalization strategy. Companies need to proactively navigate challenges and exploit existing opportunities, by engaging governments, the private sector and other stakeholders to create an environment that supports inclusive and sustainable digital transformation. Thus, cross-sector collaboration and strategic initiatives will be key in facing digital change in the industrial era 4.0.

CONCLUSION

In conclusion, the company digitalization process in Indonesia is a complex challenge but also full of potential opportunities. The Technology-Organization-Environment (TOE) Framework approach has helped in understanding the factors influencing this digital transformation, including the role of technology, organizational factors, and the external environment such as government policies and market dynamics. From this analysis, it appears that several crucial obstacles in company digitalization include limited skilled human resources, lack of top-level management commitment, organizational culture that is less responsive to change, complex data security regulations, and uneven technological infrastructure challenges. On the other hand, there are significant opportunities from the growth of the startup ecosystem and local technological innovation, as well as government policy support to accelerate the adoption of digital technology in various sectors.

To face challenges and take advantage of opportunities in company digitalization, several suggestions can be given. First, companies need to increase investment in developing skilled human resources in digital technology through training and education programs. Second, top level management must be more proactive and committed in designing a digital vision and strategy that is integrated with the company's business vision. Third, companies need to encourage a culture of innovation and organizational flexibility to facilitate the adoption of new technologies. Fourth, collaboration with the government, research institutions and the startup ecosystem can open up opportunities for collaboration in developing innovative digital solutions. Fifth, companies must focus on complying with data security and privacy regulations and improving technological infrastructure to support digital transformation that is evenly distributed throughout Indonesia. By implementing these suggestions, companies can maximize the benefits of digitalization to increase operational efficiency, expand markets, and maintain competitiveness in the era of an increasingly digital economy.

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