

# ANALYSIS OF MSME CHALLENGES AND OPPORTUNITIES IN THE DIGITAL ERA

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## **Abstract**

The advancement of digital technology has globally transformed the business landscape, including the Micro, Small, and Medium Enterprises (MSMEs) sector. This research aims to analyze the challenges and opportunities faced by MSMEs in the digital era. Key challenges involve limited access and understanding of technology, digital security, and intensifying competition. MSMEs also face risks related to data privacy and regulatory uncertainties in the digital environment. However, amidst these challenges, the digital era presents new opportunities for MSMEs, such as market globalization, product innovation, and operational efficiency through technology integration. Government efforts, business stakeholders, and educational institutions are needed to enhance the digital literacy of MSMEs, provide supportive infrastructure, and develop policies that facilitate MSME growth in the digital era. This research provides profound insights into the dynamics of MSMEs amid technological changes, with the hope of contributing to the development of policies and strategies that support MSME growth in the digital era.

**Keywords:** *MSMEs, Challenges, Opportunities, Digital Era*

## **INTRODUCTION**

The development of digital technology has become the main catalyst in changing business paradigms globally, and this is no exception for Micro, Small and Medium Enterprises (MSMEs). The digital revolution has created new dynamics, opening up opportunities as well as creating significant challenges for MSMEs (Firdausya & Ompusunggu, 2023). This research was conducted with the main aim of conducting an in-depth analysis of the complexity of the challenges and opportunities faced by MSMEs in facing the ever-growing digital era.

The main challenges faced by MSMEs can be divided into several key aspects. First of all, limited access and understanding of technology is the main obstacle. Many MSMEs still face difficulties in integrating technology into their daily operations due to costs, lack of expertise, or lack of awareness of the benefits of technology in increasing business efficiency (Anatan & Nur, 2023).

Then, digital security issues are a serious concern for MSMEs. Along with the implementation of digital technology, risks to the security of business data and information are increasingly complex. Cyber threats, data theft and privacy violations

are real risks that can harm the reputation and business continuity of MSMEs (Putranti et al., 2022). No less important is the intense competition in the digital era. MSMEs do not only compete at the local level, but also have to compete with large companies and MSMEs from various parts of the world who can be easily accessed via digital platforms. This requires MSMEs to continue to innovate in their products and services in order to differentiate themselves and meet increasingly high customer expectations (Widjajanti & Sugiyanto, 2023).

Regulatory uncertainty in the digital environment poses an additional challenge. Rapid changes in policies and regulations can make it difficult for MSMEs to adapt and comply with evolving standards. Therefore, there is a need for a regulatory framework that is clear and accessible to MSMEs to reduce uncertainty and support compliance (OECD, 2023). However, amidst all these challenges, the digital era also brings endless opportunities for MSMEs. Market globalization is becoming more accessible through digital platforms, opening up global expansion opportunities that were previously difficult for MSMEs to reach. Product innovation can also be a driving force for growth, enabling MSMEs to create added value and meet changing market demands (Alfarizi & Widiastuti, 2023).

Additionally, operational efficiency can be improved through technology integration. Digital inventory management systems, electronic payments, and the use of business analytics can help MSMEs manage their resources more efficiently, increase productivity, and reduce operational costs (Mohapatra & Mohanty, 2017).

To overcome these challenges and maximize opportunities in the digital era, cooperation between government, business players and educational institutions is very important. The government can provide support through policies that support digital literacy, fiscal incentives and infrastructure assistance. Business actors can collaborate in forming an ecosystem that supports innovation and growth, while educational institutions can play a role in improving the digital skills and literacy of MSMEs (Chen et al., 2021).

This research aims to provide in-depth insight into the dynamics of MSMEs in the digital era. By identifying the challenges and opportunities faced by MSMEs, it is hoped that concrete policy and strategy recommendations can be produced to support the sustainable growth of MSMEs amidst rapid technological change. It is hoped that the conclusions of this research can provide a meaningful contribution to the development of policies and business strategies that are adaptive and responsive to developments in the digital era.

## **RESEARCH METHOD**

This research uses a qualitative approach with a literature study method to analyze the challenges and opportunities faced by Micro, Small and Medium Enterprises (MSMEs) in the digital era. Literature study was chosen because it allows researchers to

collect and evaluate information from various relevant sources, including scientific journals, books, research reports, and articles from online platforms. This approach allows researchers to establish a solid foundation of understanding of the research topic, explore conceptual frameworks, and identify trends and significant findings from previous research. During literature study research, researchers synthesize information from various sources to understand the conceptual framework and explain the context surrounding the challenges and opportunities of MSMEs in the digital era. In analyzing the literature, researchers also pay attention to the differences and similarities in approaches used by previous researchers, providing a comprehensive picture of the current condition of MSMEs.

## **RESULT AND DISCUSSION**

### **Findings**

#### Challenges of MSMEs in the Digital Era

##### Challenges of Technology Access and Understanding

The increasingly rapid development of technology opens up wider and easier access to the digital world (Alfarizi & Widiastuti, 2023). However, not all individuals can easily understand and utilize this access, especially in the context of utilizing digital finance in the Micro, Small and Medium Enterprises (MSME) environment due to the low level of public education. Lack of information and knowledge regarding the use of digital finance is an obstacle for some MSME entrepreneurs. Many MSMEs experience limitations in accessing and understanding digital technology, either due to financial limitations or lack of digital literacy (Anatan & Nur, 2023). Based on research by Mangawing et al. (2023), MSME owners are still active in monitoring, bookkeeping and manually recording stock, sales and payments in Balikpapan City.

These challenges demonstrate the need for training programs and financial support to improve MSMEs' skills and access to technology. The government and educational institutions can collaborate to provide training and access facilities. The government can overcome MSME problems based on the scope of their business. If the business is small or medium, a market-based policy approach can be used, such as training and skills development programs in all fields, assistance with technology procurement, etc (Maksum et al., 2020).

### **Digital Security**

Cyber security awareness among Micro, Small and Medium Enterprises (MSMEs) in Indonesia is a fundamental context and issue in digital business (Singgalen et al., 2021). The presence of attackers in virtual space becomes a smooth and catalyst for application developers as defenders to improve application performance and security. Cyber security has a holistic scope, such as operational security, communications security, information security, physical security and military security (Anwar et al., 2020).

It is time for MSMEs who use digital transaction support applications to build information security awareness. In the Control Objective for Information and Associated Technology (COBIT) framework, information security is crucial in maintaining company privacy, especially data that cannot be published (Singgalen et al., 2021). Apart from COBIT, the ISO/IEC 27001 framework also evaluates the information security components of information systems used by institutions (Fathurohman & Witjaksono, 2020).

Information security is an aspect of vulnerability that needs to be estimated using various methods or approaches (Ibnugraha et al., 2018). In the context of information security vulnerabilities, good governance is needed to classify various risks that have the potential to cause harm to companies and government institutions.

Therefore, information security is one of the important issues that is accommodated in policies to anticipate criminal acts or misuse of data that are detrimental to institutions and the public (Ismail et al., 2017).

### **Global and Local Competition**

Competitiveness is the ability to produce goods and services that meet international standards, and at the same time maintain a high and sustainable level of income, or the ability of a region to generate high levels of income and employment opportunities while remaining open to external competition. The World Economic Forum (WEF), an institution that regularly publishes the "Global Competitiveness Report" defines competitiveness as the ability of an economic nation to achieve sustainable high economic growth (Prasetyo, 2023).

Competition is increasingly fierce, both in local and global markets, forcing MSMEs to innovate and increase competitiveness. According to research by Widjajanti & Sugiyanto (2023), innovation has a positive and significant influence on business. Product strategy and innovation to remain able to compete amidst increasingly tight business competition. MSMEs need to adopt digital marketing strategies, improve product quality, and look for uniqueness to compete. Involvement in global e-commerce platforms may also be a solution.

### **Data Privacy Risks**

The use of information technology in managing Micro, Small and Medium Enterprises (MSMEs) is not only limited to business performance and productivity, but also aspects of data and transaction security using various mobile, website and desktop-based applications. Risks related to data privacy, including deficiencies in customer data management, are a major concern for MSMEs.

Based on the research results of Singgalen et al. (2021), information security awareness can be reviewed based on knowledge, attitudes and behavior. Risk management can be reviewed based on supply risk, operational risk and customer risk.

Cyber Security Awareness and Risk Management in MSMEs is holistic and cannot be generalized so it needs to be discussed contextually based on case studies.

To overcome these challenges, it is necessary to implement strict data privacy policies, education about data protection, and investment in security systems to protect customer information. Four principles to support companies regarding data privacy are: (1) letting privacy and data-based business go hand in hand, (2) putting customers first and turning their privacy preferences into opportunities, (3) aligning risk management activities with the digital service development process, and (4) use of technology to professionalize legal processes (Schäfer et al., 2023).

### **Regulatory Uncertainty**

Regulatory uncertainty in the digital environment creates challenges in adapting to MSMEs. Law Number 11 of 2020 concerning Job Creation was passed as a government step to facilitate ease of doing business in Indonesia (easy doing business). Several articles and implementing regulations, including Government Regulations regarding ease of doing business and a risk-based approach, regulate efforts to simplify the licensing process and access to capital, which previously were classic challenges for Micro, Small and Medium Enterprises (MSMEs). Meanwhile, the growth of MSMEs in Indonesia continues to increase, they are still faced with various problems, which often make them less competitive both at the national and international levels. Regulations related to licensing and capital are often the main obstacles for MSMEs in developing their businesses. However, regulations related to the transformation of MSMEs into digitalization of products and marketing rarely receive attention. The use of digital marketing strategies, although it can be the basis for development, is a challenge for MSMEs in their transformation journey. Business actors who have a better understanding of technology and have determined digital platforms according to the characteristics of their consumers will be able to formulate marketing strategies more easily (Sukarmi et al., 2021).

### **MSME Opportunities in the Digital Era**

Over the decades, globalization has become the movement of goods, capital and services, deepening relations between states and nations. Currently we are faced with a structural transformation, where traditional schools have changed places and adapted to existing realities. The digital era opens the door for MSMEs to access global markets through digital platforms. MSMEs can take advantage of this opportunity by building an online presence, exploring global trading platforms, and understanding consumer preferences in various markets. MSMEs have the opportunity to enter new markets, small businesses in the world can become “micro-multinationals” through digital platforms and individuals are directly involved in the globalization process by using digital platforms to find work, study, present talents and develop personally. network

of relationships. Therefore, digitalization is changing business models around the world, changing the global economy through complex changes occurring between countries with different levels of development, regulatory regimes and other costs. The flow of data, trade and people has crossed national borders, becoming a global market that can be reached and penetrated more easily, regardless of business size and domain, nationality, region (Dumitrescu et al., 2019).

### **Product Innovation and Operational Efficiency**

Technology integration can provide opportunities for product innovation and increased operational efficiency. MSMEs can adopt technologies such as e-commerce, business analytics and automation to increase efficiency and accelerate product innovation. The results of the study show that technology plays an important role in facing various challenges faced by MSMEs. Technological innovation provides opportunities to improve production processes, inventory management, marketing and customer reach. Apart from that, technology also facilitates more efficient financial management, internal operations and data analysis. All of these efforts can help MSMEs reduce operational costs, improve product and service quality, and increase their competitiveness in the global market (Triwahyono et al., 2023).

### **The Role of Government, Business Actors, and Educational Institutions**

Collaboration between government, business players and educational institutions is very important to support MSMEs in the digital era. The government can provide fiscal incentives, training and infrastructure facilities. Government programs that support training and access to technology can help MSMEs overcome various challenges and obstacles. In promoting support for MSMEs, the government also plays an important role in maintaining economic sustainability and social stability. MSMEs that are successful in adapting and developing can create more jobs, reduce the unemployment rate, and make a positive contribution to regional economic growth. Business actors can contribute through partnerships and a supportive business ecosystem, while educational institutions need to focus on increasing digital literacy and relevant skills. Collaboration with educational institutions, the business community and digital industry players can help improve the quality and reach of future MSMEs (Sopanah & Rusyad, 2023).

### **CONCLUSION**

In the digital era, Micro, Small and Medium Enterprises (MSMEs) face a number of challenges that require holistic solutions. One of the main obstacles is access and understanding of technology, especially in the context of utilizing digital finance. Lack of digital literacy and information about technology is the main obstacle for MSME entrepreneurs. To overcome this, training programs and financial support are needed

by the government and educational institutions. Another challenge is digital security, where awareness of cyber security needs to be increased among MSMEs. Implementing data privacy policies, education about data protection, and investing in security systems are crucial steps. Increasingly fierce global and local competition is encouraging MSMEs to innovate, adopt digital marketing strategies, and engage in global e-commerce platforms. Data privacy risks and regulatory uncertainty are also serious concerns that need to be addressed. However, the digital era also opens up opportunities for MSMEs, including global access through digital platforms, product innovation, operational efficiency through technology integration, and collaboration between government, business players and educational institutions to support the growth of MSMEs in the digital era.

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