Digital Transformation in MSMEs: Challenges and Opportunities in Technology Management

Satya Arisena Hendrawan1, Afidhal Chatra2, Nurul Iman3, Soemarno Hidayatullah4, Degdo Suprayitno 5

1Faculty of Technology and Information, Universitas Siber Indonesia
2Department of Development Economics, STIE Sakti Alam Kerinci
3Faculty of Economics and Business, Universitas Bhayangkara Surabaya
4 Faculty of Economics, Universitas Patompo
5Faculty of Social Sciences and Management, Institut Ilmu Sosial dan Manajemen STIAMI

arisenahendrawan@cyber-univ.ac.id

Abstract

This study aims to examine the challenges and opportunities in the digital transformation of MSMEs, as well as effective technology management strategies. In the digital era, MSMEs face various challenges such as limited financial and human resources, inadequate digital infrastructure, and lack of knowledge and awareness about technology. Nevertheless, digital transformation also offers significant opportunities for MSMEs, including improved operational efficiency, access to broader markets, and the ability to analyze data for better decision-making. Through a qualitative approach with literature review, this research finds that effective technology management strategies are crucial for the successful digital transformation of MSMEs. These strategies include developing a technology strategic plan aligned with business goals, selecting and integrating appropriate systems, and training and developing employees' skills. The proper implementation of digital technology can help MSMEs automate business processes, reduce operational costs, and enhance productivity and innovation. The study concludes that digital transformation is not just about adopting technology but also about changing work processes and mindset to create sustainable added value for MSMEs. With adequate support and well-planned strategies, MSMEs can overcome challenges and leverage digital opportunities for business growth and sustainability.

Keywords: Digital Transformation, Msmes, Technology Management, Operational Efficiency, Market Access.

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1. Introduction

In this rapidly evolving digital era, digital transformation has become a necessity for all sectors of the economy, including micro, small, and medium enterprises (MSMEs). Digital transformation refers to the adoption of digital technology to enhance operational efficiency, expand market reach, and improve competitiveness. For MSMEs, which often have limited resources, digitalization offers significant opportunities to compete with larger and more established companies. However, alongside these opportunities, there are various challenges in managing technology. Digital transformation in Micro, Small, and Medium Enterprises (MSMEs) is a process used to restructure the economy, institutions, and society as a whole at a systemic level [1]. Digital transformation in MSMEs can be defined as efforts to enhance business operational efficiency, create new business opportunities, and generate significant profits [2].

MSMEs play a crucial role in the global economy, including in developing countries like Indonesia, contributing significantly to gross domestic product (GDP) and employment. Digital transformation can moderate the relationship between transformation capabilities and MSME performance [3]. Nevertheless, MSMEs face challenges such as limited access to technology, capital, and markets. Digital transformation can help MSMEs overcome some of these challenges by providing broader market access and enabling more efficient operations. However, this transformation process is complex and often encounters numerous obstacles. With digital transformation, MSMEs have the opportunity to optimize processes, improve efficiency, and expand their market reach [4]. It also aids MSMEs in addressing global challenges and enhancing their business performance [5].

One of the major challenges in digital transformation for MSMEs is resource limitations, both financial and human. Many MSMEs lack sufficient budget for investments in new technologies or training for their employees. Additionally, a lack of digital knowledge and skills among MSME owners and workers is a significant barrier. They may struggle to understand how to effectively implement digital technology or leverage it for their business advantage. Studies indicate that financial resource constraints and inadequate ICT skills hinder MSMEs in achieving business digitalization. Limited human resources with digital expertise also pose
serious challenges for MSMEs in adopting digital transformation. Insufficient ICT skills make it difficult for MSMEs to implement necessary digital changes [6].

In addition to resource limitations, MSMEs often face infrastructure issues. In many developing countries, digital infrastructure such as fast and stable internet remains a challenge. Without adequate infrastructure, MSMEs struggle to successfully adopt digital technologies, including necessary hardware, software, and reliable technical support. Inadequate infrastructure, such as slow or unstable internet connections, can hinder MSMEs in adopting digital technologies to enhance operational efficiency and competitiveness [7]. Moreover, lack of infrastructure can affect MSMEs' access to digital platforms and online services that could help expand their market reach and increase sales [8]. This infrastructure gap can impede digitalization efforts and leave MSMEs lagging behind larger, more technologically advanced competitors.

On the other hand, there are many opportunities that can be leveraged by MSMEs through digital transformation. One of these is the enhancement of operational efficiency. Digital technology enables the automation of various business processes, from inventory management to marketing. This automation not only reduces operational costs but also enhances service accuracy and speed. Through the adoption of digital technology, MSMEs can improve customer interactions, provide more personalized services, and respond to customer needs more efficiently [9]. Digitizing customer services in MSMEs can yield various benefits, including cost reduction, expansion of customer base, increased sales, and enhanced customer loyalty [10]. Thus, MSMEs can serve customers better and faster, thereby increasing satisfaction and loyalty.

In addition to efficiency gains, digital technology also opens opportunities for MSMEs to reach broader markets. Through e-commerce platforms, social media, and digital marketing, MSMEs can market their products not only locally but also internationally. This provides unprecedented opportunities for MSMEs to expand their business and increase revenue. Furthermore, digitalization allows MSMEs to utilize social media and online platforms to interact with customers, expand market reach, and strengthen customer relationships [11]. Digital technology also enables MSMEs to better understand their customers through data analysis, allowing them to tailor their products and services to meet customer needs and preferences. By leveraging digital technology, MSMEs can collect and analyze customer data to gain deeper insights into customer behavior, preferences, and needs [12]. This data analysis enables MSMEs to identify trends, patterns, and customer preferences that can be used to adjust their products and services to better meet customer expectations.

However, to capitalize on these opportunities, MSMEs need to develop effective strategies in technology management. This includes selecting the right technology, managing change, and training employees. MSMEs need to ensure that they choose technology that fits their needs and capabilities, as well as have a clear plan for implementation. Technology can also help MSMEs innovate and develop new products [13]. By embracing technologies such as digitalization and digital transformation, MSMEs can add value to their products and adapt to changing market trends. Moreover, cultural and organizational changes are also important to ensure that new technologies are accepted and effectively utilized by all members of the organization. In addition to improving productivity and innovation, choosing the right technology can also help MSMEs expand market access and create new business opportunities [14]. By leveraging technology, MSMEs can expand their business footprint, create new jobs, and contribute to maintaining social balance in society.

In this context, research on "Digital Transformation in MSMEs: Challenges and Opportunities in Technology Management" is highly relevant. This research aims to identify the main challenges faced by MSMEs in digital transformation, as well as the opportunities they can exploit. With a better understanding of these challenges and opportunities, MSMEs can develop more effective strategies in managing their digital transformation. This research will also provide valuable insights for policymakers and financial institutions in supporting MSMEs in the digitalization process. Overall, digital transformation is a promising path but filled with challenges for MSMEs. With the right approach and adequate support, MSMEs can succeed in adopting digital technology and capitalize on the opportunities it offers. This research will make a significant contribution to understanding the dynamics of digital transformation among MSMEs and help them overcome barriers while seizing opportunities for sustainable growth and development.

2. Research Methods

The research utilizes a qualitative approach with a literature review method. This approach aims to identify, analyze, and synthesize various findings from previous studies regarding the challenges and opportunities faced by MSMEs in managing digital technology. The first step in this research is to define the problem and research objectives. The problem addressed is the challenges and opportunities encountered by MSMEs in adopting and managing digital technology. The research objective is to identify the main challenges and potential opportunities and provide recommendations for MSMEs and policymakers to support SME digital transformation.

Secondary data form the backbone of this research, drawn from reputable sources such as scientific journals, books, government and non-governmental reports, as well as dissertations and conference papers published within the last decade. Selection criteria ensure relevance, credibility, and methodological rigor, focusing

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exclusively on literature that directly addresses digital transformation's impact on MSMEs, technological hurdles, and growth prospects. Thematic synthesis will be employed to distill the literature's main themes and subthemes, organizing similar findings into cohesive narratives that illuminate the landscape of SME digital challenges and opportunities. To bolster the validity and reliability of its conclusions, the study employs rigorous validation techniques including source triangulation—cross-referencing multiple sources to corroborate findings—and peer review by experts in relevant fields. Consistent coding and thematic analysis further safeguard data integrity, ensuring robust insights into enhancing SME resilience and competitiveness in an increasingly digital economy.

3. Results and Discussion

Digital transformation poses a complex and often challenging process for MSMEs (Micro, Small, and Medium Enterprises). One of the primary challenges faced by MSMEs is resource constraints, both financial and human. Many MSMEs lack adequate budgets to invest in new technologies or provide training for their employees. Additionally, there is a scarcity of human resources with digital skills, which hinders effective adoption and operation of digital technologies. Without the right expertise, MSMEs struggle to implement technology efficiently and to its full potential. Moreover, inadequate digital infrastructure presents a significant barrier for MSMEs in their digital transformation journey. In many areas, especially rural or remote regions, slow or unstable internet connectivity obstructs MSMEs from fully leveraging digital technologies. Limited access to necessary hardware and software, coupled with unreliable technical support, exacerbates the situation. Weak infrastructure leaves MSMEs unable to compete on equal footing with larger, more technologically advanced companies. Another challenge faced by MSMEs is the lack of knowledge and awareness regarding the benefits and usage of digital technology. Many SME owners and managers are unaware of the importance of digital transformation or lack sufficient understanding of how to implement it. This ignorance leads to resistance to change and adoption of new technologies. Without a deep understanding of the benefits and potential offered by digital technology, MSMEs may hesitate to invest their time and resources in digitalization efforts, thereby missing out on opportunities to enhance operational efficiency and expand their market reach.

Resource Constraints

Research indicates that one of the greatest challenges faced by MSMEs in digital transformation is the limitation of financial and human resources. Many MSMEs lack sufficient budget for investments in new technologies or employee training. Additionally, the scarcity of skilled labor in digital competencies poses a significant barrier. The primary challenge encountered by MSMEs in digital transformation is the limitation of financial and human resources. Many MSMEs do not have adequate budgets for investing in new technologies or training employees [15]. This demonstrates that MSMEs often face constraints in accessing the financial resources needed to adopt new technologies and enhance their human resource capacity. Resource constraints represent one of the main challenges faced by MSMEs in undergoing digital transformation. Financially, many MSMEs lack sufficient budgets to invest in the new technologies necessary for digitization. Limitations in financial and human resources can present serious obstacles for MSMEs in keeping up with the increasingly important trend of digital transformation in the current digital era [16]. Without adequate access to funds for technology investment and employee training, MSMEs may struggle to compete and adapt to rapid changes in the business environment. Digital technologies, such as the latest hardware, specialized software, and cloud-based services, often require significant initial investment. In addition to the costs of the technology itself, MSMEs also need to consider additional expenses such as employee training and system maintenance. Budget limitations make it difficult for MSMEs to allocate sufficient funds to adopt technologies that can help them compete in the digital age. In addition to financial constraints, MSMEs also often face shortages of human resources with the necessary digital skills. Employees in MSMEs may lack sufficient knowledge or experience in operating digital technologies, such as e-commerce, data analytics, or customer relationship management (CRM) systems. The recruitment process to acquire employees with adequate digital skills is also a challenge in itself, given that MSMEs often cannot offer competitive salaries and benefits compared to larger corporations. This lack of expertise results in suboptimal implementation of digital technologies and diminishes the potential benefits that could be derived from digitization. Furthermore, human resource constraints also encompass the time and energy available to SME owners and managers. They often have to manage various aspects of the business simultaneously, ranging from daily operations to marketing and financial management. With so many responsibilities to handle, the time and energy available to focus on digital transformation are extremely limited. This causes the digitization process to often proceed slowly or be unsustainable. To address these resource constraints, MSMEs require external support, such as training provided by the government or non-governmental organizations, as well as easier access to funding for technology investments.
Inadequate Infrastructure

Suboptimal digital infrastructure, such as slow or unreliable internet connectivity, poses a significant challenge for MSMEs, especially in rural or remote areas. Without adequate infrastructure, efforts to adopt digital technologies often encounter obstacles and limitations. One of the significant challenges in digital transformation for MSMEs is inadequate infrastructure. In many regions, particularly in rural or remote areas, slow or unstable internet access is a major constraint. Poor internet connectivity hinders MSMEs from fully leveraging digital technologies, such as e-commerce, cloud computing, or customer relationship management (CRM) systems. Without reliable and fast internet access, MSMEs cannot efficiently conduct technology-based business operations, which hampers their growth and competitiveness in an increasingly digital market.

In addition to internet connectivity issues, infrastructure limitations also include insufficient access to adequate hardware and software. Many MSMEs do not possess sufficiently advanced computers or other devices to run the latest digital applications or systems. Outdated or mismatched hardware that does not meet the needs of modern technology can hinder productivity and operational effectiveness. On the other hand, specialized software that could help MSMEs manage their businesses better is often expensive and requires technical expertise to operate. Lack of access to such infrastructure makes it difficult for MSMEs to keep up with rapid technological advancements and exploit existing opportunities. Reliable technical support is an essential part of the infrastructure needed for MSMEs' digital transformation. However, reliable technical support is often unavailable to MSMEs [17]. This is a serious issue because MSMEs often have resource constraints, both financially and in terms of human resources, which make it challenging for them to access the technical support services necessary to implement digital transformation.

Reliable technical support is also a crucial part of the infrastructure needed for digital transformation, yet it is often unavailable to MSMEs. In many areas, technical services that could assist MSMEs in solving technology issues or maintaining their digital systems are severely limited. Research indicates that inadequate infrastructure can be a serious barrier for MSMEs in adopting digital technologies [18][19]. Despite MSMEs' advantages in operating within local business environments and quickly exploring alternative strategic options, inadequate infrastructure can hinder their ability to compete in an increasingly digital era.

The importance of adequate infrastructure in MSMEs' digital transformation is further underscored by research highlighting that digitalization requires robust infrastructure support to ensure successful implementation of digital technologies [20][21]. Without adequate infrastructure, MSMEs may struggle with technical challenges, data security issues, and system integration that arise during the digital transformation process. Without reliable technical support, MSMEs may face difficulties in adopting and operating digital technologies, as well as the risk of downtime that could disrupt business operations. Addressing these infrastructure issues requires investment from both the government and private sectors in developing digital infrastructure, as well as technical support programs accessible to MSMEs. With better infrastructure, MSMEs can effectively leverage digital technologies and enhance their competitiveness in the global market.

Lack of Knowledge and Awareness

Insufficient understanding of the benefits and usage of digital technology also poses a challenge for MSMEs. Many SME owners and managers are not aware of the importance of digital transformation or lack sufficient knowledge to effectively implement technology. The lack of knowledge and awareness regarding the benefits and usage of digital technology is a major barrier faced by MSMEs in the digital transformation process. Many SME owners and managers do not grasp the potential of digital technology to enhance operational efficiency and expand market reach. This ignorance often leads to resistance to change, as they may be comfortable with traditional business methods they have used for years. Without a clear understanding of how technology can benefit their business, MSMEs tend to hesitate in allocating resources and time for digital technology adoption.

Research indicates that insufficient understanding of digital technology can be a serious impediment for MSMEs in adopting digital technologies [22][23]. Lack of knowledge in using online marketing technology, website management, social media, and marketplaces can confine SME products to local recognition, inhibiting their business growth potential. Furthermore, inadequate technical knowledge among SME staff is also a constraint in digital technology implementation. Many employees lack basic digital skills required to operate software or digital systems. This limitation can hinder the digitization process, as employees may require intensive training to effectively use new technologies. Additionally, lack of knowledge about cyber security and data protection can pose significant risks for MSMEs, as they may lack adequate systems or procedures to protect their business and customer data.

Information imbalance also contributes to a lack of awareness regarding the opportunities offered by digital technology. Many MSMEs do not have access to information resources that could help them understand latest technology trends and how to integrate them into their businesses. Available information is often scattered and difficult to access, especially for those in remote areas. Additionally, research highlights that lack of understanding in digital literacy can pose a serious threat in the current era of digital transformation [24][25].
Limitations in understanding digital technology can hinder MSMEs from capitalizing on opportunities presented by technology, such as online marketing, digital financial management, and developing technology-based business models.

Therefore, training and education programs sponsored by governments or non-governmental organizations can play a crucial role in enhancing knowledge and awareness of digital technology among MSMEs. With better understanding, MSMEs can be more prepared and motivated to adopt digital technology, thereby enhancing their competitiveness and business growth.

**Opportunities for MSMEs to Exploit**

One of the primary opportunities that MSMEs can leverage through digital transformation is enhanced operational efficiency. Digital technology enables the automation of various business processes such as inventory management, accounting, and marketing. For instance, using inventory management software, MSMEs can reduce human errors, expedite order processing, and optimize stock management. Cloud-based accounting systems also facilitate real-time and accurate financial monitoring, enabling faster and more informed decision-making. Research indicates that digital transformation can help MSMEs improve their operational efficiency [26][27]. Through the adoption of digital technology, MSMEs can automate business processes, reduce time spent on routine tasks, and enhance overall productivity.

Digital technology, particularly through e-commerce platforms and social media, presents significant opportunities for MSMEs to access broader markets. With e-commerce platforms like Tokopedia, Shopee, and Lazada, MSMEs can sell their products not only locally but also nationwide and even internationally. Social media platforms such as Facebook, Instagram, and TikTok also allow MSMEs to reach and interact directly with potential customers, build brand awareness, and measure marketing campaign effectiveness more easily. This expanded access enables MSMEs to grow their customer base, increase sales, and significantly expand their business. Enhanced digital skills through training and mentoring can also assist MSMEs in improving their operational efficiency [28][29] With a better understanding of digital technology, MSMEs can optimize the use of relevant software and applications to manage inventory, customer service, and other business operations more efficiently.

Adopting digital technology provides MSMEs with the capability to gather and analyze customer data more effectively. Through data analysis, MSMEs can gain deep insights into the behaviors, preferences, and needs of their customers. This information can be used to tailor products and services offered, design more targeted marketing strategies, and enhance customer satisfaction. For example, utilizing analytics tools available on e-commerce platforms or social media, MSMEs can track purchasing patterns, evaluate the effectiveness of promotions, and identify emerging market trends. Making decisions based on this data helps MSMEs to be more responsive to market changes and enables them to make more informative and strategic business decisions.

**Improving Operational Efficiency**

Adopting digital technology enables MSMEs to automate various business processes such as inventory management, accounting, and marketing. This automation can reduce operational costs, enhance efficiency, and allow MSMEs to focus on other more strategic aspects of their business. Haryati emphasizes that digital technology adoption and digital branding are key to the sustainability of small businesses, yet many SME operators face challenges such as low understanding and capability in utilizing digital media [30]. Digital transformation presents significant opportunities for MSMEs to enhance operational efficiency through automating various business processes. A concrete example is the implementation of inventory management software that enables MSMEs to manage stock more effectively and accurately.

According to Sasonoko et al., digital marketing, which involves marketing through internet access and social media, allows MSMEs to reach a broader audience and enhance product visibility [31]. With digital technology adoption, MSMEs can utilize digital platforms to promote their products, manage marketing campaigns efficiently, and measure their marketing performance more accurately. With such systems, MSMEs can monitor stock levels in real-time, reduce human errors in counting, and expedite reorder processes. Additionally, this software can provide automatic alerts when stocks are nearing minimum levels, thereby preventing stockouts that can disrupt business operations. The result is improved efficiency in inventory management, leading to cost reductions and increased customer satisfaction.

Besides inventory management, digital technology also enables automation in accounting and finance. Cloud-based accounting systems like QuickBooks or Xero allow MSMEs to automate transaction recording, manage financial reports, and automatically reconcile bank accounts. With these systems, accounting processes that were previously time-consuming and prone to manual errors can now be conducted faster and more accurately. Additionally, MSMEs can access their financial data in real-time from anywhere, facilitating quicker and more informed financial decision-making. The ability to generate accurate and timely financial reports also aids MSMEs in business planning and better budget management.
Digital technology also provides opportunities for MSMEs to automate marketing processes through the use of digital marketing tools such as email marketing, CRM (Customer Relationship Management), and analytics tools. With CRM, MSMEs can manage customer interactions, track purchase histories, and tailor marketing campaigns based on customer preferences. Purnomo highlights that the adoption of latest technologies, such as the Internet of Things (IoT), plays a crucial role in enhancing operational efficiency for MSMEs [32]. Email marketing tools enable MSMEs to automatically send personalized marketing campaigns to potential customers, thereby increasing conversion rates and customer retention. Moreover, analytics tools help MSMEs measure the effectiveness of their marketing campaigns, provide insights into customer behavior, and identify areas for improvement. Automation in marketing not only enhances efficiency but also helps MSMEs achieve marketing targets more effectively and precisely.

**Access to Broader Markets**

Digital technology, especially through e-commerce platforms and social media, opens opportunities for MSMEs to reach a wider market, both locally and internationally. By leveraging these technologies, MSMEs can expand their customer base and increase revenue. E-commerce technology allows businesses to easily promote products through web-based applications [33]. Utilizing online platforms, such as marketplaces, has had a significant impact on the SME sector, especially in the post-pandemic and Information Technology (IT) development era that enables businesses to operate within networks [34]. Digital transformation presents significant opportunities for MSMEs to access broader markets through the use of e-commerce platforms and social media. E-commerce platforms like Tokopedia, Shopee, Lazada, and Bukalapak enable MSMEs to sell their products not only in local markets but also nationally and even internationally. Through these platforms, MSMEs can utilize features such as online payments, integrated shipping, and product promotions to reach more customers. The existence of online stores also allows MSMEs to operate 24/7, increasing sales opportunities without time and location constraints.

Social media platforms like Facebook, Instagram, and TikTok offer powerful tools for marketing and customer interaction. MSMEs can use social media to build brand awareness, reach a wider audience, and interact directly with customers through posts, stories, and paid advertisements. Platforms like Instagram and TikTok, with their visual and video features, are highly effective for showcasing products and building strong brand narratives. The use of hashtags, influencer marketing, and targeted advertising campaigns enables MSMEs to reach specific audiences based on their demographics and interests, thereby increasing conversion and sales opportunities. Prasetyo et al. also emphasize that social media platforms like Facebook and Instagram offer benefits for MSMEs to enhance their product marketing [35]. By leveraging social media, MSMEs can expand their market reach, increase consumer interactions, and build a strong brand image.

Furthermore, digital technology provides various analytical tools that allow MSMEs to better understand their markets. These tools provide insights into consumer behavior, market trends, and the effectiveness of marketing campaigns. With this data, MSMEs can adjust their marketing strategies to better align with customer preferences and needs. For example, analytics from e-commerce platforms can show which products are most popular and when sales peaks occur, enabling MSMEs to optimize their inventory and promotion strategies. Thus, access to broader markets through digitalization not only enhances sales opportunities but also helps MSMEs make more strategic decisions based on accurate data.
The first step in effective technology management is to develop an integrated strategic technology plan aligned with long-term business objectives. This involves identifying specific technology needs, determining appropriate budgets, and ensuring that long-term business goals can be achieved through technology adoption. The next critical step is choosing and integrating the right systems. MSMEs must ensure system compatibility, data security, scalability, and adequate technical support, including regular system maintenance and updates to ensure smooth operations. Another crucial aspect is ensuring that employees have the necessary skills to operate new technologies. This can be achieved through internal training, digital skills development, and continuous learning programs to keep up with the latest technological advancements.

With this strategy, MSMEs can enhance productivity, drive innovation and creativity, and achieve better operational efficiency through the use of digital technology. Digital technology enables MSMEs to boost productivity by automating various business processes, such as inventory management and accounting [36]. By adopting accounting information systems and e-commerce applications, MSMEs can expedite their business processes, reduce errors, and enhance overall operational efficiency. SME strategies supported by digital technology, such as digital marketing and e-commerce, can foster innovation and creativity in product marketing [37].
4. Conclusion

Digital transformation offers significant opportunities for MSMEs to enhance operational efficiency, expand market access, and optimize business strategies through appropriate technology. Despite facing challenges such as limited resources, inadequate infrastructure, and lack of knowledge and awareness, MSMEs can leverage digital technology to improve their productivity and competitiveness. By adopting inventory management software, cloud-based accounting systems, and e-commerce platforms, MSMEs can automate business processes, reduce operational costs, and reach customers in broader markets. Additionally, the use of social media and analytic tools enables MSMEs to understand consumer behavior, measure the effectiveness of marketing campaigns, and make data-driven decisions.

However, to maximize the benefits of digital transformation, MSMEs need to implement effective technology management strategies. This includes developing an integrated strategic technology plan aligned with business objectives, selecting and integrating the right systems, and training and developing skills for employees. With a comprehensive approach and adequate support, MSMEs can overcome existing challenges and harness the opportunities offered by digital technology to achieve better business growth and sustainability. Digital transformation is not just about adopting new technology but also about changing workflows and mindset to create sustainable added value.

References


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