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Limited Access to Capital for SMEs and its Impact on **Growth in Competitive Markets**



Yana Ermawati 🖴

[🖴] Universitas Yapis Papua, Jayapura, 99113, Indonesia

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Corresponding author. Yana Ermawati ermawati.yana@gmail.com

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ABSTRACT

Purpose: This study investigates the multidimensional challenges of limited access to capital for Small and Medium Enterprises (SMEs) in competitive markets. It aims to analyze how capital constraints affect SME growth, innovation, and competitiveness while exploring the interplay of institutional, regulatory, and market factors that shape financial accessibility.

Research Design and Methodology: Adopting a qualitative approach, this research utilizes a systematic literature review (SLR) to synthesize findings from recent studies. The review focuses on the structural, institutional, and operational barriers impacting SMEs' access to finance, alongside the role of alternative financing solutions and institutional quality in mitigating these challenges.

Findings and Discussion: The study identifies capital constraints as a critical barrier limiting SMEs' ability to innovate, expand production, and compete effectively in dynamic markets. Weak institutional frameworks, such as underdeveloped credit systems and regulatory inefficiencies, exacerbate financial exclusion, particularly in developing economies. Furthermore, competitive pressures amplify these challenges, highlighting the need for alternative financing solutions like fintech and crowdfunding. However, adoption remains limited due to low financial literacy and inadequate digital infrastructure. These findings emphasize the necessity of systemic reforms to create an enabling financial ecosystem for SMEs.

Implications: The study contributes to academic literature and practical applications by providing actionable insights for policymakers and financial institutions. Recommendations include simplifying credit processes, enhancing financial literacy, and fostering public-private collaborations to address systemic barriers. These strategies can empower SMEs to overcome capital constraints, drive innovation, and contribute to sustainable economic development.

Introduction

Small and Medium Enterprises (SMEs) are universally acknowledged as critical drivers of economic development, employment generation, and innovation. In developed and developing economies, SMEs form the backbone of industrial and service sectors, contributing significantly to the Gross Domestic Product (GDP) and fostering socio-economic stability (Aikor, 2021). They play an essential role in bridging market gaps by catering to niche demands, creating opportunities for local entrepreneurship, and enhancing the overall dynamism of economic systems. In developing countries, SMEs are often seen as instruments of poverty alleviation and financial inclusion, providing livelihoods in regions

where large-scale industries are absent. However, despite their central role, SMEs face systemic obstacles that hinder their ability to sustain and expand operations. Among these, limited access to capital stands out as a pervasive and multifaceted challenge. Capital serves as the lifeblood of businesses, enabling them to scale production, improve operational efficiency, and invest in innovation. Without adequate financing, SMEs cannot leverage growth opportunities, adopt new technologies, or compete effectively in competitive markets (Bakhtiari et al., 2020). The financial constraints are further compounded by structural issues, such as rigid lending criteria imposed by financial institutions, insufficient collateral, and high-risk perceptions associated with smaller businesses (Santos & Cincera, 2022). These barriers restrict the potential of individual SMEs and curtail their collective contribution to economic resilience and market competitiveness. As markets become increasingly competitive, SMEs' inability to access and utilize financial resources amplifies their vulnerability, creating an uneven playing field that limits their capacity to achieve sustainable growth.

This study narrows its focus to investigate the profound implications of capital constraints on SMEs operating in competitive markets. While SMEs are often celebrated for their agility and innovative potential, their growth and sustainability are disproportionately affected by financial barriers. Inadequate access to capital constrains SMEs' ability to expand operations, develop new products, or penetrate more significant market segments (Kumar & Rao, 2016). In competitive environments, these challenges are further exacerbated as SMEs must contend with more substantial, well-funded competitors enjoying economies of scale and better financing options (Sinha et al., 2022). Moreover, the issue is particularly acute in developing economies, where financial systems are often underdeveloped, regulatory frameworks are cumbersome, and institutional support for SMEs is limited. Factors such as insufficient financial literacy, weak credit histories, and a lack of tailored financial products exacerbate the challenges for SMEs seeking funding (Shaikh et al., 2024). These constraints limit SMEs' ability to compete effectively and hinder their contribution to broader economic objectives, such as job creation, poverty reduction, and industrial diversification. The cascading effects of these capital constraints are evident in the inability of SMEs to innovate, maintain operational efficiency, or invest in long-term strategic initiatives (Kato, 2024). This situation highlights a persistent and systemic issue within the global economic landscape, requiring a closer examination of how limited access to capital influences SMEs' growth trajectories and competitiveness in dynamic market environments.

Recent studies highlight SMEs' multifaceted challenges in accessing capital and the implications for growth and innovation. Limited access to finance restricts SMEs' ability to introduce new products or services (Machokoto & Omotilewa, 2024). Public loan guarantee schemes improve SMEs' access to market-based financing, fostering more substantial fixed-asset growth (Boccaletti et al., 2024). Factors influencing SME financing include operational characteristics, financial reporting practices, and social relationships (Nguyen et al., 2024). Developing economies present additional challenges, such as limited managerial skills and technological gaps (Sumba-Bustamante et al., 2024). Addressing these barriers requires strategic models, such as Porter's Diamond Model, which emphasizes improving financial literacy, simplifying regulatory frameworks, and integrating digital technologies (Sumba-Bustamante et al., 2024). Further research underscores the role of banking sector competition and capital access in SME growth. Increased banking competition alleviates financing constraints, benefiting smaller firms (Rakshit & Bardhan, 2023). Debt capital positively influences SME employment growth, while equity financing has a negative effect (Ha et al., 2022). Corruption worsens financial constraints, especially in competitive markets and smaller firms (Amin & Motta, 2023). Credit information availability and economic development support banking competition in reducing SME financing constraints (Khan & Kutan, 2023). Moreover, firm size, entrepreneur characteristics, and institutional quality significantly impact access to finance and growth (Ha et al., 2022; Khan & Kutan, 2023). These findings emphasize the need to enhance banking competition, combat corruption, and improve credit information systems to support SME growth in competitive and developing markets.

Despite the substantial body of research addressing SMEs' financing challenges, critical gaps remain in the empirical and theoretical understanding of these issues. Most recent studies examine

isolated factors, such as the role of public loan guarantees or banking competition, in addressing financial constraints for SMEs. However, the interplay of these factors within a broader strategic framework, mainly how they collectively influence SME growth, remains insufficiently explored. For instance, while public loan guarantees have shown promise in improving SMEs' access to marketbased financing (Boccaletti et al., 2024), their integration with banking competition and credit information systems has not been comprehensively analyzed. Similarly, the contextual factors, including institutional quality, regulatory environments, and technological infrastructure, significantly affecting SMEs' ability to secure and effectively utilize capital are often overlooked in the existing literature. While models like Porter's Diamond have been proposed to address strategic gaps, there is limited empirical evidence validating their effectiveness across diverse economic contexts, especially in developing economies where financial systems and institutional frameworks differ substantially. Corruption and credit information systems have been identified as critical influences on SMEs' financial access (Amin & Motta, 2023; Khan & Kutan, 2023). However, their interactions with other market dynamics and institutional variables remain underexplored. These gaps indicate a fragmented understanding of SMEs' structural and operational barriers to accessing capital. This study addresses these gaps by synthesizing existing findings through a systematic literature review, aiming to provide an integrated perspective on the multidimensional challenges hindering SME growth in competitive markets.

This research introduces a novel perspective by integrating theoretical frameworks and empirical insights to address the multidimensional challenges associated with limited access to capital for SMEs in competitive markets. Unlike prior studies examining specific aspects of SME financing in isolation, this research adopts a holistic approach to analyze the interconnected factors-structural, institutional, and operational-influencing access to finance. Using a systematic literature review (SLR), the study seeks to fill critical gaps in understanding how contextual elements such as institutional quality, market dynamics, and regulatory frameworks interact to shape SMEs' financial accessibility. Furthermore, the research explores the compounded effects of these factors in competitive environments, offering insights that go beyond the fragmented findings of earlier studies. Key research questions guide the study: How do capital constraints affect the growth and competitiveness of SMEs in dynamic market environments? How do institutional, operational, and market factors influence SMEs' ability to access and utilize capital effectively? These questions reflect the urgency of addressing SMEs' systemic barriers in securing financing, particularly in developing economies where institutional deficiencies and market disparities exacerbate financial constraints. By answering these questions, this research aims to provide actionable insights for policymakers, financial institutions, and stakeholders, contributing to designing targeted interventions that promote financial inclusion and sustainable SME growth. The study's findings are expected to offer a comprehensive understanding of the interplay between capital access and SME development, addressing critical knowledge gaps in the field.

Literature Review

Porter's Diamond Model

Porter's Diamond Model is a widely utilized analytical framework for understanding the sources of competitive advantage within industries or nations. Developed by Michael Porter (1990), the model emphasizes that competitive advantage emerges not merely from natural resources but from the dynamic interplay of several interconnected elements. These elements include Factor Conditions, Demand Conditions, Related and Supporting Industries, Firm Strategy, Structure, and Rivalry. For instance, Factor Conditions, which comprise critical resources such as capital, labor, infrastructure, and technology, are instrumental in shaping the competitiveness of industries. Fainshmidt et al. (2016) highlight that the quality of governance and the degree of multinational enterprise penetration significantly influence these factors, demonstrating their dynamic nature in fostering economic growth. Demand Conditions, another key component, refer to the role of domestic market demand in driving firms to innovate and enhance product quality. Steinberg et al. (2023) underscore that the complexity of competitive repertoires within firms is shaped by the specific demands of their local and national contexts, emphasizing the importance of demand-driven innovation. Related and

Supporting Industries, such as financial institutions and credit providers, play a crucial role in creating a supportive ecosystem for businesses. Militaru et al. (2025) reveal that a robust network of supporting industries is integral to enhancing the competitiveness of regional clusters. Lastly, Firm Strategy, Structure, and Rivalry influence companies' strategies to remain competitive. Kim et al. (2023) suggest that digital advancements have redefined firm strategy, particularly in transitioning economies, underscoring the need for a more nuanced understanding of this component within the Diamond Model.

Porter's Diamond Model has been widely applied to understand competitive advantage across various contexts, including its adaptation to Small and Medium Enterprises (SMEs). The model identifies four interconnected elements-Factor Conditions, Demand Conditions, Related and Supporting Industries, and Firm Strategy, Structure, and Rivalry—as key determinants of competitiveness. Factor Conditions, encompassing resources such as capital, infrastructure, and human talent, are essential for SME growth. Surya et al. (2021) emphasize that the quality of these conditions, particularly in financial access, directly impacts the ability of SMEs to invest in innovation and productivity enhancements. Demand Conditions highlight the role of a sophisticated and dynamic domestic market in driving SME innovation. Evans & Bosua (2017) found that competitive pressure from local demand fosters firms' ability to adapt and innovate, a factor crucial for SMEs in competitive markets. Moreover, Related and Supporting Industries, such as banks and fintech platforms, play a vital role in enabling SMEs to overcome financial constraints. Brassell & Boschmans (2019) argue that well-developed supporting industries enhance the economic ecosystem, offering SMEs more straightforward access to credit and advisory services. Firm Strategy, Structure, and Rivalry explore how competition influences strategic decision-making within SMEs. Canhoto et al. (2021) underscore that digitalization has reshaped strategic approaches, allowing SMEs to leverage new tools to enhance competitiveness. By integrating these dimensions, Porter's Diamond Model provides a robust framework for analyzing how SMEs navigate challenges in competitive markets, underscoring the interplay between systemic factors and firm-specific strategies.

Limited Access to Capital for SMEs

Access to capital is crucial in driving the growth and sustainability of Small and Medium Enterprises (SMEs). It enables SMEs to innovate, enhance production capacities, and enter new markets (Surya et al., 2021). However, limited access to financing remains a significant barrier, especially in developing economies, where SMEs often face challenges such as strict lending requirements and insufficient collateral. Cruz et al. (2023) highlight that these constraints are further exacerbated by the absence of adequate credit histories, which financial institutions view as indicative of high risk. Furthermore, the lack of tailored financial products limits the options available to SMEs, restricting their ability to secure necessary funding. The issue of financial literacy is another critical factor impacting SMEs' access to capital. Feng et al. (2023) found that SME owners with low financial literacy often struggle to manage their finances effectively, impeding their ability to secure loans or utilize alternative financing options. Similarly, Wang & Chen (2023) observed that the absence of formal financial documentation among SMEs creates additional barriers, as lenders require transparent records to assess creditworthiness—structural challenges, such as complex regulatory frameworks and bureaucratic hurdles, compound SMEs' difficulties. Prasanna et al. (2019) emphasize that innovation efforts among SMEs are particularly stifled when financial constraints are present, as they hinder investments in technology and workforce development. This lack of innovation, driven by inadequate resource access, ultimately undermines SMEs' competitiveness in local and global markets. Addressing these multifaceted challenges requires interventions that improve financial literacy, simplify regulatory processes, and enhance access to formal credit systems.

Alternative financing options such as venture capital, crowdfunding, and fintech platforms have emerged as promising solutions for Small and Medium Enterprises (SMEs) facing challenges in accessing traditional financing (Oladejo et al., 2023). However, the adoption of these alternatives remains limited due to various barriers. Bruton et al. (2015) emphasize that while crowdfunding and peer-to-peer innovations offer substantial opportunities for SMEs, their effectiveness depends on the entrepreneurs' understanding of these mechanisms and their ability to build trust with potential

investors. The lack of technological literacy among SME owners often limits their capacity to navigate these platforms effectively. In addition, the dynamics of crowdfunding models, such as keep-it-all or all-or-nothing, require SMEs to carefully align their financing goals with the appropriate model. Cumming et al. (2020) highlight that the choice of crowdfunding model significantly impacts the outcomes of financing campaigns, making it imperative for SMEs to have a transparent strategic approach. Trust is a critical factor in the success of alternative financing. Moysidou & Hausberg (2020) argue that establishing trust is particularly challenging in lending crowdfunding, where investors rely heavily on transparency and credibility. The global alternative finance market has grown significantly, yet Ziegler et al. (2021) observe that SMEs in developing regions remain underrepresented due to limited awareness and access. This underutilization exacerbates SMEs' operational challenges, including their inability to invest in technology, workforce training, or market expansion. Addressing these gaps requires tailored interventions to improve financial literacy and digital adoption among SMEs.

SME Growth in Competitive Markets

The ability of Small and Medium Enterprises (SMEs) to thrive in competitive markets hinges on their capacity for continuous innovation, operational efficiency, and market expansion (Manafe et al., 2024). These enterprises must consistently adapt to changing market dynamics and invest in innovative solutions to remain relevant. However, access to capital is a persistent constraint on SME growth, which is crucial for sustaining these activities. Brunswicker & Vanhaverbeke (2015) emphasize that innovation within SMEs often depends on external knowledge sourcing, yet financial limitations frequently hinder their ability to leverage such resources effectively. This issue is particularly pronounced for SMEs seeking to compete against larger firms with extensive financial networks. Lee et al. (2015) found that following the financial crisis, SMEs have encountered even more significant challenges in securing finance, which is especially detrimental for those aiming to innovate or scale their operations. Competitive markets exacerbate these challenges, as SMEs must invest heavily in product development, marketing, and technology to differentiate themselves from larger competitors. Nakku et al. (2020) argue that many high-growth SMEs lack tailored public policy support that addresses their unique financial needs, further widening the gap between smaller businesses and their well-resourced counterparts. Pizzi et al. (2021) highlight that SMEs require business models that incorporate strategies for financial sustainability, yet such integration remains challenging without sufficient access to credit. In developing regions, limited financial infrastructure further compounds these issues. Gamage et al. (2020) note that SMEs struggling to access finance often face constraints in exporting and innovating, limiting their ability to compete effectively. These challenges underscore the need for targeted policy interventions and strengthened financial ecosystems to empower SMEs and enable them to navigate the demands of dynamic, competitive markets.

In developing countries, Small and Medium-sized Enterprises (SMEs) face intricate challenges stemming from weak institutional frameworks, underdeveloped financial infrastructure, and limited access to credit information systems. Hansen-Addy et al. (2024) argue that the regulatory business environment often hinders SMEs from securing financing, primarily due to inadequate credit-sharing mechanisms and stringent collateral requirements imposed by financial institutions. These constraints create a significant barrier to entry for SMEs seeking to expand their operations or invest in strategic initiatives. Limited access to credit information exacerbates borrowing costs for SMEs. Fosu et al. (2023) highlight how the absence of robust credit information systems increases risk perception among lenders, ultimately restricting SMEs' access to affordable financing. This limitation and low profit margins inhibit SMEs' ability to invest in essential areas such as technological innovation, workforce development, and market expansion, thus curtailing their potential contributions to economic growth. Strategic interventions are necessary to mitigate these barriers. Regulatory reforms that foster a more inclusive financial environment can alleviate some of the challenges SMEs face. Yuan et al. (2022) emphasize the importance of robust credit information systems in reducing information asymmetries and lowering SMEs' capital costs. Additionally, Attarpour et al. (2024) suggest that strengthening collaboration between governments, financial institutions,

and the private sector can create a supportive ecosystem. By adopting a holistic approach, SMEs in developing economies can enhance their competitiveness and contribute more significantly to economic development.

Research Design and Methodology

Study Design

This research adopts a qualitative approach using the Systematic Literature Review (SLR) method. The study is designed to systematically synthesize existing literature, providing a comprehensive understanding of the challenges and opportunities SMEs face in competitive markets, mainly related to financial access and innovation. The SLR approach follows a structured process that includes defining research objectives, selecting relevant literature, and synthesizing findings to ensure methodological rigor and reliability.

Sample Population or Subject of Research

The subject of this research includes academic articles, books, and reports published in reputable scholarly databases, such as Elsevier, Emerald, Wiley, and Springer. The inclusion criteria consist of publications written in English, published after 2018, and focusing on topics related to SME growth, access to finance, innovation, and competitive market dynamics. Publications that do not align with these criteria or lack empirical focus are excluded. The selected works cover diverse perspectives and contexts to ensure the analysis captures comprehensive insights.

Data Collection Techniques and Instrument Development

Data collection involves systematic searches using predefined keywords such as "SME financing," "innovation in competitive markets," and "financial barriers." A data collection protocol guides the search and ensures consistency. A standardized data extraction sheet is developed to document critical information, including publication details, research objectives, methodologies, and key findings. This approach minimizes bias and ensures uniformity in data collection.

Data Analysis Techniques

Thematic analysis is applied to identify recurring patterns and extract relevant themes from literature. Key themes include financial challenges, policy implications, and strategies for SMEs in competitive markets. The findings are organized and synthesized into coherent narratives, highlighting gaps in existing research and offering recommendations for future studies. This structured analysis ensures clarity and supports the development of practical and theoretical insights.

Findings and Discussion

Findings

Small and Medium Enterprises (SMEs) face significant challenges in accessing capital, primarily due to structural, institutional, and operational barriers. Structural issues include rigid lending criteria imposed by financial institutions, which often require collateral that many SMEs cannot provide. Furthermore, SMEs' limited credit histories and informal economic practices make them less attractive to lenders (Amin & Motta, 2023). Institutional weaknesses, such as inadequate credit information systems and fragmented bureaucratic processes, exacerbate these challenges, particularly in developing economies where financial systems are less mature (Hansen-Addy et al., 2024). For example, credit bureaus in many regions are underdeveloped or absent, leading to asymmetric information between lenders and borrowers, which increases the perceived risk of SME lending. Operationally, SMEs often lack the financial literacy and managerial expertise to navigate complex financing options and present viable business cases for funding (Nakku et al., 2020). This knowledge gap limits their access to traditional financing and hinders their ability to explore alternative financing methods such as crowdfunding or venture capital. The compounded effects of these barriers significantly restrict SMEs' ability to invest in growth-enhancing activities, such as adopting new technologies, expanding production capacity, or hiring skilled labor. These constraints

reduce SMEs' competitiveness and ability to contribute meaningfully to economic growth and innovation. Addressing these barriers requires systemic reforms to create a more supportive financial ecosystem for SMEs, particularly in emerging markets with the most acute challenges.

In competitive markets, SMEs face amplified challenges due to their limited access to financial resources, directly impacting their ability to innovate and expand. Unlike larger enterprises that enjoy economies of scale and diversified funding sources, SMEs often struggle to secure the capital needed to meet the demands of dynamic and competitive environments (Santos & Cincera, 2022). This issue is further complicated by rapidly changing consumer preferences, which demand continuous product innovation and adaptation. To remain competitive, SMEs must invest in research and development, marketing, and technology upgrades-investments often unattainable due to financial constraints (Bakhtiari et al., 2020). Moreover, the rise of digital technologies and ecommerce has created new competitive pressures, requiring SMEs to adopt digital tools and platforms to maintain market relevance. However, many SMEs cannot leverage these technologies effectively without sufficient financial backing. Market-based finance options, such as public loan guarantees or fintech solutions, hold the potential for bridging these gaps but remain underutilized due to operational inefficiencies and a lack of tailored support for SMEs (Boccaletti et al., 2024). The cumulative effect of these challenges limits SMEs' ability to compete on a level playing field with larger firms, further entrenching economic disparities. To mitigate these issues, targeted interventions that address the specific financial needs of SMEs and promote inclusive financing mechanisms are essential for fostering equitable competition and sustainable growth in dynamic market environments.

The lack of adequate financing has a profound impact on the growth and competitiveness of SMEs, affecting their ability to innovate, expand, and remain viable in the market. Financial constraints hinder SMEs' capacity to develop new products, adopt advanced technologies, and scale their operations to meet market demands (Aikor, 2021). In addition, SMEs often operate within tight profit margins, making it challenging to allocate resources for strategic investments such as workforce training and development. This lack of investment in human capital further limits their ability to enhance productivity and efficiency, both of which are critical for sustaining competitiveness in increasingly demanding markets (Ha et al., 2022). In developing economies, where access to finance is often more constrained, SMEs face heightened challenges in meeting operational and expansion goals. Weak financial infrastructure, combined with regulatory inefficiencies, exacerbates these difficulties, leaving SMEs unable to capitalize on growth opportunities (Hussain Khan & Kutan, 2023). Financial constraints reduce SMEs' resilience to economic shocks, making them more vulnerable to market volatility and external disruptions. As a result, many SMEs cannot contribute to broader economic development or create meaningful employment opportunities. Addressing these constraints requires improving access to traditional and alternative financing options and fostering a more supportive regulatory and institutional environment that empowers SMEs to overcome financial barriers and achieve sustainable growth.

Institutional and regulatory environments are critical in shaping SMEs' ability to access capital and compete effectively in the market. In many developing countries, weak regulatory frameworks and fragmented financial systems deter financial institutions from extending credit to SMEs. For instance, the absence of robust credit information systems leads to higher perceived risks among lenders, who are less willing to finance SMEs (Fainshmidt et al., 2016). Furthermore, cumbersome bureaucratic processes and inconsistent regulatory policies create additional barriers, often resulting in delays and higher costs for SMEs seeking financing. On the other hand, targeted regulatory reforms can significantly improve SMEs' access to capital. Streamlined loan application processes, establishing credit bureaus, and public financial support programs are examples of policies that have proven effective in mitigating these barriers (Hansen-Addy et al., 2024). However, many regulatory initiatives fail to account for the specific needs of high-growth SMEs, which require more tailored support to scale their operations and remain competitive in dynamic markets. Public-private partnerships can also play a vital role in addressing these challenges by fostering collaboration between governments, financial institutions, and the private sector to create a more inclusive

financial ecosystem. Strengthening institutional and regulatory frameworks is essential for enabling SMEs to overcome capital access barriers and achieve long-term growth.

To overcome systemic barriers to capital access, a holistic approach is required that integrates policy reforms, financial innovation, and collaborative stakeholder engagement. Governments must prioritize inclusive financing policies that address the unique needs of SMEs, such as offering digital financial platforms and alternative credit scoring models to expand access to underserved businesses (Feng et al., 2023). Additionally, enhancing financial literacy among SME owners is crucial for enabling them to effectively navigate complex financial systems and leverage available resources (Dela Cruz et al., 2023). Digitalization also plays a key role in bridging the financing gap, as fintech solutions can streamline lending processes and improve accessibility for SMEs. Regulatory reforms aimed at simplifying credit processes and reducing bureaucratic hurdles are equally crucial for creating a more supportive environment for SMEs. Public-private partnerships can strengthen these efforts by fostering collaboration between governments, financial institutions, and industry leaders to develop targeted interventions that address systemic barriers (Attarpour et al., 2024). By adopting a multi-faceted strategy that addresses structural, institutional, and operational challenges, stakeholders can create an enabling environment that empowers SMEs to achieve sustainable growth and compete effectively in dynamic markets. These efforts are critical for fostering financial inclusion and unlocking the economic potential of SMEs globally.

Discussion

The findings of this research reaffirm that limited access to capital significantly impacts the growth and sustainability of Small and Medium Enterprises (SMEs). Capital is a critical element that enables SMEs to innovate, enhance production capacity, and compete effectively in dynamic markets. However, SMEs with restricted access to financing face considerable challenges in adopting new technologies essential for improving operational efficiency. The inability to secure adequate funding hampers their ability to scale production, invest in research and development, and pursue market expansion opportunities. These limitations are particularly pronounced in international markets, where competition is often more intense, and the costs of entry are higher. Without sufficient financial resources, SMEs struggle to meet market demands, compete with larger firms, and remain competitive. With their superior financial capacity, large companies can exploit economies of scale and access affordable financing options, further widening the gap between themselves and resourceconstrained SMEs. This disparity in access to capital creates structural disadvantages for SMEs, limiting their ability to participate fully in economic activities. The cascading effects of limited financing stifle SME growth and hinder their contributions to employment creation and innovation, which are crucial for broader economic development. Addressing these barriers requires systemic changes that enable SMEs to access the capital needed to overcome these constraints and achieve long-term sustainability in competitive markets.

This study highlights how competitive market environments exacerbate SMEs' financial constraints, intensifying innovation and adaptation challenges. Competitive markets pressure SMEs to remain agile, respond to shifting consumer preferences, and incorporate digital transformation into their operations. These demands necessitate substantial investment in product innovation, marketing strategies, and technological upgrades. However, limited access to capital often leaves SMEs unable to meet these requirements, resulting in a competitive disadvantage. The rapid pace of technological advancements further widens the gap as larger firms with more substantial financial resources can swiftly adopt and deploy cutting-edge technologies. Meanwhile, SMEs struggle to keep up, not due to a lack of willingness but because of economic limitations. Consumer preferences are evolving unprecedentedly, driven by global trends and increased access to information. To remain relevant, SMEs must allocate resources toward developing innovative products and enhancing customer experiences. However, their constrained financial position makes it difficult to compete with well-funded competitors who can afford extensive market research and product diversification. This creates a cycle where SMEs, unable to keep pace with market demands, lose competitiveness and fail to realize their growth potential. The research underscores the urgent need for tailored

financial solutions and policy interventions to alleviate these pressures and level the playing field for SMEs in competitive markets.

The findings also reveal that institutional and regulatory barriers significantly hinder SMEs' access to financing, particularly in developing economies. Weak institutional frameworks, such as underdeveloped credit information systems, create asymmetries in the lending process, making it difficult for financial institutions to assess SMEs' creditworthiness accurately. This often leads to riskaverse lending practices, with banks imposing stringent requirements such as collateral and comprehensive financial documentation, which many SMEs lack. Additionally, complex bureaucratic processes and inconsistent regulatory policies exacerbate these challenges, increasing the time and cost of securing financing. Public policies that fail to address the specific needs of SMEs further widen the gap, as larger firms are better equipped to navigate such inefficiencies. For example, SMEs often struggle to meet the documentation standards required for loan applications, leading to high rejection rates. Conversely, targeted reforms that simplify loan approval processes, establish robust credit bureaus, and create SME-specific financial products have proven effective in some regions. However, such reforms are often absent or inadequately implemented in many developing countries, leaving SMEs trapped in a cycle of financial exclusion. The research underscores the importance of addressing these institutional and regulatory deficiencies to create a more enabling environment for SMEs. Strengthening financial infrastructure and aligning public policies with the unique challenges of SMEs are critical steps toward ensuring equitable access to capital and fostering long-term growth.

The study further explores the potential of alternative financing solutions such as crowdfunding, fintech, and venture capital as avenues to overcome capital constraints faced by SMEs. These mechanisms offer significant advantages, including faster access to funds, reduced reliance on traditional banking systems, and greater flexibility in meeting SMEs' unique financing needs. Crowdfunding platforms enable SMEs to secure funding directly from a vast pool of individual investors, while fintech solutions simplify the loan application process through digital platforms. Venture capital provides financial support and strategic guidance to help SMEs scale their operations. Despite these benefits, adopting alternative financing methods remains limited among SMEs, particularly in developing economies. One significant barrier is the lack of financial literacy among SME owners, which prevents them from fully understanding and utilizing these innovative financing mechanisms. Limited digital infrastructure in many regions restricts the accessibility of fintech platforms, creating additional challenges for SMEs. The study notes that alternative financing solutions are often underutilized due to regulatory uncertainties and a lack of trust in digital financial ecosystems. Addressing these issues requires coordinated efforts to enhance financial literacy, invest in digital infrastructure, and establish clear regulatory frameworks supporting alternative financing growth. By overcoming these barriers, alternative financing mechanisms can serve as powerful tools to bridge the capital gap for SMEs, fostering greater inclusivity and innovation within the global SME ecosystem.

The findings of this research strongly align with the theoretical framework established by Porter's Diamond Model, which emphasizes the interplay between access to capital, innovation, and institutional quality as fundamental determinants of competitiveness. This model, developed by Michael E. Porter, underscores that competitive advantage arises from natural resources and a dynamic interaction of key factors, including firm strategy, supporting industries, demand conditions, and factor conditions like access to financial resources (Porter, 1990). In the context of SMEs, the model provides a valuable lens to understand how limited access to capital constrains their ability to innovate, adapt to market demands, and enhance production efficiency. The constraints highlighted in the findings illustrate that SMEs often struggle to adopt the technological advancements or operational improvements required to remain competitive in dynamic market environments. This aligns with Porter's argument that institutional support and practical regulatory frameworks enable businesses to overcome structural and operational barriers. The model's emphasis on strengthening institutional quality resonates with the research findings that weak financial infrastructures and regulatory inefficiencies exacerbate SMEs' challenges in accessing capital. By applying Porter's Diamond Model to the SME context, this research extends the model's utility beyond its traditional focus on national competitiveness, illustrating its relevance in addressing microeconomic challenges

faced by smaller enterprises. These insights highlight the importance of fostering an enabling ecosystem through institutional reforms and targeted financial strategies to enhance SMEs' capacity for growth and innovation.

The findings of this research are consistent with several previous studies that highlight the challenges SMEs face in accessing capital. For instance, Amin and Motta (2023) emphasize that corruption and weak institutional frameworks in developing countries significantly exacerbate SME financing barriers. Their findings align with this study's conclusion that institutional deficiencies, such as inefficient credit information systems and regulatory complexities, contribute to financial exclusion for SMEs. Similarly, Ha et al. (2022) research underscores the critical role of capital in driving SME growth, particularly by enhancing production capacity and competitive capabilities. This supports the idea that access to adequate financial resources is vital for SMEs to innovate, scale their operations, and compete effectively in dynamic markets. However, this research extends the scope of prior studies by focusing on the interplay between competitive market dynamics and capital constraints, exacerbating the disparity between SMEs and larger firms. While earlier studies primarily address the structural and institutional challenges of accessing finance, this research sheds light on how competitive pressures amplify these issues, particularly in markets where SMEs must continuously innovate to meet evolving consumer demands and technological advancements. In contrast, this research also highlights inconsistencies with previous findings suggesting that alternative financing mechanisms, such as fintech and crowdfunding, have fully addressed financing challenges. While these alternatives hold potential, this study reveals that their adoption remains limited due to low financial literacy, lack of digital infrastructure, and regulatory hurdles in developing regions. This research provides a more comprehensive perspective on SMEs' financial challenges by exploring these nuances. It highlights the need for targeted interventions to address structural and market-driven financing barriers.

The practical implications of this study's findings are highly significant for policymakers, financial institutions, and other stakeholders committed to fostering the growth and sustainability of SMEs. Governments can leverage these insights to design more inclusive policies aimed at addressing the structural barriers faced by SMEs in accessing capital. Simplifying loan application processes and developing robust credit information systems are critical to creating a more transparent and efficient financial environment. Additionally, targeted reforms that streamline regulations and reduce bureaucratic hurdles can further empower SMEs to access the resources they need for growth. Financial institutions also have a pivotal role in bridging the financing gap for SMEs by offering tailored financial products that align with their unique needs. These products might include flexible repayment terms, reduced collateral requirements, or sector-specific financing solutions. Moreover, enhancing financial literacy among SME owners is crucial to ensure they understand and can effectively utilize alternative financing options, such as fintech, crowdfunding, and venture capital. Tailored training programs can equip SMEs with the knowledge and skills to navigate modern financial ecosystems, enabling them to maximize the potential of available resources. Collaboration between the public and private sectors is essential for creating a supportive business environment that promotes SME growth. Joint initiatives, such as public-private partnerships, can drive innovation in financial products while expanding access to underserved regions. By implementing these recommendations, SMEs can overcome their financial constraints, enhance their competitiveness, and make more substantial contributions to economic development and job creation, ultimately strengthening their role as key drivers of sustainable growth in local and global markets.

Conclusion

This research has addressed the multidimensional challenges associated with limited access to capital for SMEs in competitive markets. Through a systematic analysis, the study explored how capital constraints impact SME growth, innovation, and competitiveness while identifying the interplay between institutional and regulatory barriers and market dynamics. The findings highlighted the significant role of financial access in enabling SMEs to adapt to technological advancements, meet evolving consumer demands, and expand their market reach. Additionally, the study examined the

potential of alternative financing solutions and emphasized the importance of a supportive institutional environment in mitigating SMEs' financial challenges.

The value of this research lies in its contribution to academic literature and practical applications. The study provides an original perspective by integrating theoretical frameworks, such as Porter's Diamond Model, with empirical insights to comprehensively understand the challenges and opportunities for SMEs in accessing capital. From a practical standpoint, the findings underscore the need for inclusive policies and innovative financial strategies to empower SMEs. These include simplifying loan application processes, enhancing credit information systems, promoting financial literacy, and fostering collaboration between the public and private sectors. Managers and policymakers can apply these insights to design targeted interventions that address systemic barriers, enabling SMEs to realize their growth potential and contribute significantly to economic development and employment creation.

However, this study has several limitations that must be acknowledged. First, it relies on a systematic literature review, which may restrict the generalizability of its findings to specific contexts. Future research could build on this work by conducting empirical studies across diverse geographical and economic settings to validate and expand the findings. Additionally, while this study highlights the potential of alternative financing, further exploration of the practical adoption and implementation of these mechanisms in developing economies is needed. Researchers are encouraged to investigate the impact of digital infrastructure and regulatory reforms on SMEs' access to capital, as these factors play a crucial role in shaping financial inclusivity. By addressing these gaps, future studies can provide deeper insights and actionable solutions to foster the growth and sustainability of SMEs in increasingly competitive markets.

References

- Aikor, S. T. (2021). Small and Medium Enterprises (SMEs): Key to Socio-Economic Development of Nigeria. *International Journal of Research and Innovation in Social Science*, 5(12), 866-872. https://www.academia.edu/download/92461778/SMES_Key_to_Socio_Economic_Development_JRISS.pdf
- Amin, M., & Motta, V. (2023). The impact of corruption on SMEs' access to finance: Evidence using firm-level survey data from developing countries. *Journal of Financial Stability*, 68, 101175. https://doi.org/10.1016/j.jfs.2023.101175
- Attarpour, M., Elyasi, M., Mohammadi, A., & Rezaalizadeh, H. (2024). Create and strengthening innovation ecosystem: roles of policy-affiliated transition intermediaries in latecomers. *Journal of Science and Technology Policy Management*, ahead-of-print(ahead-of-print). https://doi.org/10.1108/JSTPM-11-2023-0194
- Bakhtiari, S., Breunig, R., Magnani, L., & Zhang, J. (2020). Financial constraints and small and medium enterprises: A review. *Economic Record*, 96(315), 506-523. https://doi.org/10.1111/1475-4932.12560
- Boccaletti, S., Ferrando, A., Rossi, E., & Rossolini, M. (2024). European SMEs' growth: the role of market-based finance and public financial support. *Small Business Economics*. https://doi.org/10.1007/s11187-024-00918-y
- Brassell, M., & Boschmans, K. (2019). Fostering the use of intangibles to strengthen SME access to finance. https://doi.org/10.1787/729bf864-en
- Brunswicker, S., & Vanhaverbeke, W. (2015). Open Innovation in Small and Medium-Sized Enterprises (SMEs): External Knowledge Sourcing Strategies and Internal Organizational Facilitators. *Journal of Small Business Management*, 53(4), 1241-1263. https://doi.org/10.1111/jsbm.12120
- Bruton, G., Khavul, S., Siegel, D., & Wright, M. (2015). New financial alternatives in seeding entrepreneurship: Microfinance, crowdfunding, and peer-to-peer innovations. In *Entrepreneurship theory and practice* (Vol. 39, Issue 1, pp. 9-26). SAGE Publications Sage CA: Los Angeles, CA. https://doi.org/10.1111/etap.12143

- Canhoto, A. I., Quinton, S., Pera, R., Molinillo, S., & Simkin, L. (2021). Digital strategy aligning in SMEs: A dynamic capabilities perspective. *The Journal of Strategic Information Systems*, 30(3), 101682. https://doi.org/10.1016/j.jsis.2021.101682
- Cumming, D. J., Leboeuf, G., & Schwienbacher, A. (2020). Crowdfunding models: Keep-it-all vs. all-or-nothing. *Financial Management*, 49(2), 331-360. https://doi.org/10.1111/fima.12262
- Dela Cruz, N. A., Villanueva, A. C. B., Tolin, L. A., Disse, S., Lensink, R., & White, H. (2023). PROTOCOL: Effects of interventions to improve access to financial services for micro-, small-and medium-sized enterprises in low-and middle-income countries: An evidence and gap map. *Campbell Systematic Reviews*, 19(3), e1341. https://doi.org/10.1002/cl2.1341
- Evans, N., & Bosua, R. (2017). Exploring innovation in regional manufacturing SMEs. *Small Enterprise Research*, 24(2), 149-166. https://doi.org/10.1080/13215906.2017.1334226
- Fainshmidt, S., Smith, A., & Judge, W. Q. (2016). National competitiveness and Porter's diamond model: The role of MNE penetration and governance quality. *Global Strategy Journal*, 6(2), 81-104. https://doi.org/10.1002/gsj.1116
- Feng, Y., Meng, M., & Li, G. (2023). Impact of digital finance on the asset allocation of small- and medium-sized enterprises in China: Mediating role of financing constraints. *Journal of Innovation* & *Knowledge*, 8(3), 100405. https://doi.org/https://doi.org/10.1016/j.jik.2023.100405
- Fosu, S., Agyei-Boapeah, H., & Ciftci, N. (2023). Credit information sharing and cost of debt: Evidence from the introduction of credit bureaus in developing countries. *Financial Review*, *58*(4), 783-810. https://doi.org/10.1111/fire.12361
- Gamage, S. K. N., Ekanayake, E. M. S., Abeyrathne, G., Prasanna, R., Jayasundara, J., & Rajapakshe, P. S. K. (2020). A review of global challenges and survival strategies of small and medium enterprises (SMEs). *Economies*, 8(4), 79. https://d1wqtxts1xzle7.cloudfront.net/105302076/pdf-libre.pdf?1693101491=&response-content-
- Ha, V. D., Nguyen, V. T., & Dang, T. T. N. (2022). The impact of capital on growth of small and medium enterprises: Evidence from Vietnam. *The Journal of Asian Finance, Economics and Business*, 9(1), 353-362. https://doi.org/10.13106/jafeb.2022.vol9.no1.0353
- Hansen-Addy, A. E., Parrilli, M. D., & Tingbani, I. (2024). The impact of the regulatory business environment on SMEs' funding choices in developing countries: Evidence from Africa. *International Journal of Finance & Economics*. https://doi.org/10.1002/ijfe.2951
- Hussain Khan, H., & Kutan, A. M. (2023). Banking sector competition and firms' financial constraints: Firm-Level evidence from developing economies. *Journal of International Financial Markets, Institutions and Money, 88,* 101848. https://doi.org/https://doi.org/10.1016/j.intfin.2023.101848
- Kato, A. I. (2024). Building resilience and sustainability in small businesses enterprises through sustainable venture capital investment in sub-Saharan Africa. *Cogent Economics & Finance*, 12(1), 2399760. https://doi.org/10.1080/23322039.2024.2399760
- Kim, Y., Atukeren, E., & Lee, Y. W. (2023). Digital Double Diamond (DiDD) Model Analysis of National Competitiveness Under Digital Transformation: An Application to Healthcare and Pharmaceutical Industries in South Korea and Switzerland. *International Journal of Global Business and Competitiveness*, 18(1), 1-18. https://doi.org/10.1007/s42943-023-00080-4
- Kumar, S., & Rao, P. (2016). Financing patterns of SMEs in India during 2006 to 2013 an empirical analysis. *Journal of Small Business & Entrepreneurship*, 28(2), 97-131. https://doi.org/10.1080/08276331.2015.1132513
- Lee, N., Sameen, H., & Cowling, M. (2015). Access to finance for innovative SMEs since the financial

- crisis. *Research Policy*, 44(2), 370-380. https://doi.org/https://doi.org/10.1016/j.respol.2014.09.008
- Machokoto, M., & Omotilewa, O. J. (2024). The impact of borrowing concentration on innovation: When is one not just enough? *Economics Letters*, 236, 111613. https://doi.org/https://doi.org/10.1016/j.econlet.2024.111613
- Manafe, M. W. N., Rizani, A., & Purnawati, E. (2024). Analysis of the Influence of Technical Expertise, Market Orientation, Social Capital, and Innovation on the Performance of Micro and Small Businesses in the Technology Sector. *International Journal of Business*, *Law*, *and Education*, 5(1 SE-), 983-995. https://doi.org/10.56442/ijble.v5i1.493
- Militaru, A. M. G., Kurt, A., & Gumus, M. (2025). Analysis of national strategic innovation objectives using adapted Porter's diamond model: a comparison of Romania and Türkiye. *Competitiveness Review: An International Business Journal*, 35(1), 100-118. https://doi.org/10.1108/CR-10-2023-0260
- Moysidou, K., & Hausberg, J. P. (2020). In crowdfunding we trust: A trust-building model in lending crowdfunding. *Journal of Small Business Management*, 58(3), 511-543. https://doi.org/10.1080/00472778.2019.1661682
- Nakku, V. B., Agbola, F. W., Miles, M. P., & Mahmood, A. (2020). The interrelationship between SME government support programs, entrepreneurial orientation, and performance: A developing economy perspective. *Journal of Small Business Management*, 58(1), 2-31. https://doi.org/10.1080/00472778.2019.1659671
- Nguyen, H. T., Nguyen, T. L. H., Dao, Q. T., & Nguyen, N. T. (2024). Factors affecting small and medium enterprises access to capital: Evidence from Vietnam. *Nurture*, 18(2), 418-434. https://doi.org/10.55951/nurture.v18i2.641
- Oladejo, O. R., Ogunsade, A. I., Kolade, S., & Atiase, V. (2023). Crowdfunding and traditional finance: the prospects and challenges for SMEs in Nigeria. *Entrepreneurial Financial Resilience and Financial Innovation in a Turbulent Era*, 85-105. https://doi.org/10.4337/9781802203929.00013
- Pizzi, S., Corbo, L., & Caputo, A. (2021). Fintech and SMEs sustainable business models: Reflections and considerations for a circular economy. *Journal of Cleaner Production*, 281, 125217. https://doi.org/https://doi.org/10.1016/j.jclepro.2020.125217
- Porter, M. E. (1990). The Competitive Advantage of Nations. New York: Free Press
- Prasanna, R., Jayasundara, J., Naradda Gamage, S. K., Ekanayake, E. M. S., Rajapakshe, P. S. K., & Abeyrathne, G. (2019). Sustainability of SMEs in the competition: A systemic review on technological challenges and SME performance. *Journal of Open Innovation: Technology, Market, and Complexity*, 5(4), 100. https://doi.org/10.3390/joitmc5040100
- Rakshit, B., & Bardhan, S. (2023). Bank competition and SMEs access to finance in India: evidence from World Bank Enterprise Survey. *Asian Review of Accounting*, 31(2), 317-347. https://doi.org/10.1108/ARA-05-2022-0124
- Santos, A., & Cincera, M. (2022). Determinants of financing constraints. *Small Business Economics*, 58(3), 1427-1439. https://doi.org/10.1007/s11187-021-00449-w
- Shaikh, M., Khoso, I., & Jummani, M. O. (2024). Investigating Financial Resource Sufficiency for Entrepreneurial Growth: A Case of SMEs in Pakistan. In *Journal of Entrepreneurship, Management, and Innovation* (Vol. 6, Issues 2 SE-Articles, pp. 136-151). https://doi.org/10.52633/jemi.v6i2.381
- Sinha, A. K., Mishra, A. K., RL, M., & Prabhudesai, R. (2022). Examining the determinants of small firms' performance in India. *International Journal of Productivity and Performance Management*, 71(6), 2496-2533. https://doi.org/10.1108/IJPPM-10-2020-0508

- Steinberg, P. J., Hennig, J. C., Oehmichen, J., & Heigermoser, J. (2023). How the country context shapes firms' competitive repertoire complexity. *Global Strategy Journal*, *13*(3), 552-580. https://doi.org/10.1002/gsj.1458
- Sumba-Bustamante, R. Y., Cantos-Figueroa, M. de L., Santistevan-Villacreses, K. L., Soledispa-Rodríguez, X. E., Nieves-Lizárraga, D. O., Cervantes-Martínez, L., Ultreras-Rodríguez, A., Olguín-Martínez, C. M., Triana-Garcia, R. W., Delgado, D. R., Valencia-Ortiz, D., & Rincón-Guio, C. (2024). Strategic model for strengthening smes: An empirical study based on porter's five forces. *Journal of Infrastructure, Policy and Development*, 8(10), 1-22. https://doi.org/10.24294/jipd.v8i10.6435
- Surya, B., Menne, F., Sabhan, H., Suriani, S., Abubakar, H., & Idris, M. (2021). Economic growth, increasing productivity of SMEs, and open innovation. *Journal of Open Innovation: Technology, Market, and Complexity*, 7(1), 20. https://doi.org/10.3390/joitmc7010020
- Wang, X., & Chen, X. (2023). An empirical study on financing constraints of digital inclusive finance development on small and medium-sized technology-based enterprise. *Kybernetes*, 52(2), 585-600. https://doi.org/10.1108/K-01-2022-0095
- Yuan, Y., Liu, L., & Liu, L. (2022). How does information integration enhance SMEs' credit quality: the mediating role of supply chain capabilities. *Industrial Management & Data Systems*, 122(2), 544-561. https://doi.org/10.1108/IMDS-10-2020-0621
- Ziegler, T., Shneor, R., Wenzlaff, K., Wang, B., Kim, J., Paes, F. F. de C., Suresh, K., Zhang, B. Z., Mammadova, L., & Adams, N. (2021). The global alternative finance market benchmarking report. *Available at SSRN 3771509*. https://doi.org/10.2139/ssrn.3771509