

# SYSTEMATIC LITERATURE REVIEW ON FINANCIAL CONSTRAINTS AND THEIR IMPACT ON CORPORATE INNOVATION

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### ABSTRACT

Financial constraints remain a critical barrier to corporate innovation, particularly in limiting access to capital for research and development (R&D) investment. These constraints significantly undermine firms' innovation capacity and global competitiveness. This study aims to systematically review the existing literature on the relationship between financial constraints and corporate innovation, while also identifying the role of public policy and strategic management interventions in mitigating such limitations. Employing a Systematic Literature Review (SLR) method with a qualitative approach based on PRISMA 2020 guidelines, this research analyzed five Scopus-indexed articles published during the 2024–2025 period. Content analysis was conducted to synthesize theoretical perspectives and empirical findings related to the keywords "financial constraint" and "corporate innovation." The findings reveal that financial constraints negatively impact innovation activities, particularly under conditions of regulatory pressure, macroeconomic volatility, and exogenous shocks such as natural disasters. However, targeted policy interventions, particularly technology-financing schemes-and adaptive corporate strategies, including digital transformation, have demonstrated efficacy in alleviating financial bottlenecks. Academically, this study contributes by mapping current theoretical discourse and empirical evidence on financial constraints in innovation, offering an integrative framework for future inquiry. Practically, the results inform policymakers and corporate leaders on effective mechanisms to enhance innovation resilience through financial and strategic flexibility. Future research is encouraged to expand the scope by including diverse industrial sectors and cross-country comparisons, employing longitudinal data to capture dynamic interactions between financial access and innovation output over time.

Keywords : Financial Constraints; Corporate Innovation; Systematic Literature Review

### INTRODUCTION

Innovation has become an important pillar in the modern business world, serving as a driving force for competitiveness and longterm growth of companies. In an increasingly complex and rapidly changing business environment, innovation provides а vital competitive advantage for companies in responding to dynamic market demands. Research shows that innovation only improves not

company performance, but also supports the sustainability of business models that are more innovative and adaptive to change (Irawan et al., 2024; Rondi et al., 2019). Innovation is closely related to technological advancements that allow companies introduce new products and to services that meet consumer needs, while maintaining relevant competitiveness in the market (Farida & Setiawan, 2022; Sezer et al., 2020).

One of the most significant roles of innovation is in creating business models that can adapt to sustainability trends. Research shows that sustainable innovative business models appeal to consumers who are increasingly concerned about environmental issues and provide a competitive advantage in the global market (Jin et al., 2021). In addition, innovation contributes to the creation of added value in products and business processes, which is key for companies to stay relevant and thrive in the midst of competition (Coelho et al., 2023; Farida & Setiawan, 2022).

However. the journey to innovation is often not smooth, and many companies face various challenges that hinder their ability to innovate effectively. The first challenge that companies face in the innovation process is financial constraints. These constraints usually arise due to limited access to capital required for investment in research and development (R&D), workforce training, and the implementation of new technologies (X. Li et al., 2021; Scopelliti et al., 2013). Therefore, understanding the various factors that affect innovation, including financial, human resources, and technological aspects, becomes critical to the planning of a company's long-term innovation strategy (Ali et al., 2022).

Financial constraints refer to difficulties experienced by the companies in obtaining sufficient funds to support innovation activities. This barrier is often one of the main causative factors that stop companies from exploring new possibilities (Weiß et al., 2011). Increasing consumer demand for increasingly innovative and sustainable products further emphasizes the importance of having adequate access to funding to facilitate R&D and innovation activities (Acebo et al., 2020). This creates a vicious circle where lack of financing reduces innovation capacity, which further results in a decline in competitiveness in an increasingly tight market (Scopelliti et al., 2013).

In terms of impact, financial constraints can be seen in the product development process, where inadequate investment often results in a product that is less competitive and does not meet market expectations. There is evidence that companies operating in financially constrained environments report lower innovation outcomes compared to companies with good financial access (Gorodnichenko & Schnitzer, 2013).

It also includes an impact on R&D investment, where a lack of funds can cause companies to fail to invest adequately in new technologies that are essential for sustainable innovation (Q. Li et al., 2021; Suryono et al., 2020).

Recent literature reviews show a significant relationship between financial constraints and innovation practices in companies, where many studies have found that companies that experience financial constraints tend to have a lower frequency of carrying out innovation activities (Q. Li et al., 2021; Seenaiah & Rath, 2018). These effects are not only limited to specific sectors, but have been observed across a wide range of industries, suggesting that financial constraints can be a pervasive and complex issue (Reddy, 2024). Other research underscores the importance of conducting a systematic review to explore how companies can better address these barriers through policies innovation and more integrated strategies (Azari et al., 2017).

Looking into existing research gaps, it is known that while there is a lot of research that sheds light on the relationship between finance and innovation, there is still a lot that has not thoroughly explored how financial factors interact with other aspects such as human resources and government policies in supporting innovation (Acebo et al., 2020; Q. Li et al., 2021). Systematic studies are needed to consolidate and synthesize existing findings, providing a more comprehensive picture of the patterns and trends that researchers and practitioners in this field can take (Azari et al., 2017).

The main objective of this study was to collect and analyze the relevant literature to highlight the complex relationship between financial constraints and innovation. By building on this understanding, the research not only contributes to the development of theories but also provides practical guidance for policymakers and managers to design effective strategies more in supporting innovation across a wide range of organizations (Azari et al., 2017). Identifying patterns in these relationships is very important in directing efforts to increase the achievement of innovation, so that companies can be more competitive and sustainable.

This study focuses on literature published in the 2024–2025 period, a time frame selected intentionally to capture the most recent postpandemic recovery trends and policy shifts related to innovation financing. Although this period is relatively short, it reflects a critical transition era, characterized by aggressive digitalization, green investment, and restructured funding policies across industries. Thus, literature within this window is strategically relevant for understanding how companies are currently navigating financial barriers to innovation in a fast-evolving economic landscape.

Given these conditions, a systematic review of the literature is needed to map the current understanding and provide theoretical and practical insights. This study focuses on literature published in the 2024–2025 period, a time frame selected intentionally to capture the most recent post-pandemic recovery trends and policy shifts related to innovation financing. Although this period is relatively short, it reflects a critical transition era, characterized by aggressive digitalization, green investment, and restructured funding policies across industries. Thus. literature within this window is strategically relevant for understanding how companies are currently navigating financial barriers to innovation in a fast-evolving economic landscape.

The limited number of articles (five) was a result of strict inclusion criteria, focusing only on peerreviewed, Scopus-indexed articles that directly addressed the interaction between financial constraints and corporate innovation. While small in quantity, the selected studies offer depth, thematic consistency, and recent empirical findings, which are suitable for qualitative synthesis. Prior research (Azari et al., 2017) supports the use of focused, highquality samples in systematic literature reviews where the goal is

conceptual mapping rather than statistical generalization.

This study aims to synthesize recent findings and explore the complex relationship between financial constraints and innovation, offering both theoretical insights and recommendations practical from managerial and policy perspectives. By integrating contextually relevant literature, underscores it the importance of adapting innovation strategies to financial realities to maintain competitiveness and sustainability. A deep understanding of financial constraints is crucial for companies striving to innovate in a resource-limited environment, as it enables the formulation of more sustainable and adaptive innovation policies (Q. Li et al., 2021; Seenaiah & Rath, 2018). Ultimately, this research contributes meaningfully to innovation management practices and lays the groundwork for future, datadriven investigations while providing alternative solutions for firms facing funding limitations.

### **RESEARCH METHOD**

This study uses a qualitative approach with a structured, transparent, and replicable Systematic Literature Review (SLR) method to examine the relationship between financial constraints and corporate innovation. The SLR follows the PRISMA 2020 guidelines, adapted into three main stages: (1) planning, (2) implementation of reviews, and (3) reporting of results. The main purpose of this method is to identify research gaps, propose new research directions, and highlight emerging themes in the existing literature. Keyword selection was based on the terms "Financial Constraint" and searched "Corporate Innovation", across Scopus-indexed journals for the 2024–2025 period. Inclusion criteria were: peer-reviewed status, relevance to research focus, and availability in English. In order for the articles to be reviewed in accordance with the problems and objectives of the research. the following search criteria were developed:

 Table 1. Article selection criteria

No.	Criterion
	Articles are from scientific
1	journals that are published
T	periodically, not discontinuously,
	and indexed on Scopus
2	Articles are written in English and
2	are available in open access.
3	Articles published in the last 2
5	years (2024–2025).
	Literature search using Scopus
4	with the keywords Financial
4	Constraint and corporate
	innovation
	The search is limited to the top 5
5	results of each keyword with a
J	minimum number of citations of
	10
	The final process is in the form of
6	aligning the selected articles with
	the research objectives.

Quality assessment was conducted using a modified Critical Appraisal Skills Programme (CASP) checklist for each study. Articles were evaluated based on clarity of objectives, methodological rigor, credibility of findings, and relevance to the research questions. Only articles with medium to high quality scores were included in the synthesis.

Data extraction was carried out using a structured spreadsheet to capture both bibliographic information (e.g., first author. publication year, title, journal name, volume, issue, DOI, citation count, and journal quartile ranking) and substantive content (e.g., main theme, methodology type, data type, region/industry focus, and key findings). This ensured consistency and traceability in the review process. Data extraction was carried out using a structured spreadsheet to capture both bibliographic information (e.g., first author, publication year, title, journal name, volume, issue, DOI, citation count, and journal quartile ranking) and substantive content (e.g., main theme, methodology type, data type, region/industry focus, and key findings). In total, five articles met all inclusion and quality criteria. Despite the limited number, these studies provided in-depth and recent insights aligned with the research objectives. The final synthesis was used to inform both theoretical implications and future research recommendations.

# **RESULT AND DISCUSSION**

Table 2. List of Articles					
Auth or Nam e First, the year Huan	Article Title The	Journal Name Finance	Keywor ds Financia		
g et al. (202 5)	integration of technology and finance and corporate innovation boundary	Researc h Letters	l Constra int dan Corpora te Innovati on		
Sun et al. (202 5)	The impact of China's green credit policy on the innovation of manufactu ring enterprise s	Journal of Innovati on & Knowled ge	Financia I Constra int dan Corpora te Innovati on		
He et al. (202 5)	The real effect of shadow banking regulation on corporate innovation : Evidence from conduit business	Pacific- Basin Finance Journal	Financia I Constra int dan Corpora te Innovati on		
Rana & Deba ta (202 4)	Role of corporate innovation and uncertaint y in	Journal of Indian Business Researc h	Financia I Constra int dan Corpora te		

Auth or Nam	Article Title	Journal Name	Keywoı ds
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	corporate		
	R&D		
	landscape		

	Table 3. 1	List of Arti	cles	Aut	Article	Result	concluci
Aut hor Na me First	Article Title	Result and discussio n	concluci on	hor Na me First , the	Title	and discussio n	on
, the year				year Sun	The	The study	Green
year Hua ng et al. (202 5)	The integrati on of technolo gy and finance and corporat e innovatio n boundar y	China's Pilot Policy Promotin g the Integratio n of Technolo gy and Finance (PPPITF) policy boosts firms' innovatio n output in pilot areas. Mediatio n analysis shows that the policy effect is strengthe ned through reducing financing constraint s and accelerati ng digital transform ation. More	The integrati on of technolo gy and finance through PPPITF expands firms' innovati on boundari es by strength ening financial and digital capacitie s. Such integrati ve policies are effective in promoti ng sustaina ble innovati on in developi ng countrie	et al. (202 5)	impact of China's green credit policy on the innovatio n of manufact uring enterpris es	finds that China's green credit policy significant ly reduces innovatio n in heavily polluting firms due to increased financial constraint s. This inhibitory effect is more severe for private, tech- intensive, and Central- region firms, and is worsened by subsidies and internal investme nts.	credit policy hampers innovati on due to financial constrai nts and is especiall y detrimer tal to private, tech- intensive , and Central China firms.
		digitalized firms gain greater innovatio n	S.	He et al. (202 5)	The real effect of shadow banking regulatio	The 2017 regulatio n of conduit business	Shadow banking regulatio n has a negative

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year		n		Na me First , the year	Title	discussio n	on
•	corporat	shadow	on	year		industrial	
	е	banking	corporat			policies.	
	innovatio	sector	e	Ran	Role of	The study	Corporat
	n:	significant	innovati	a &	corporat	reveals a	e
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	from	reduced	emergin	ata	innovatio	relationsh	on
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	business	R&D	markets,	4)	uncertai	between	investme
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Aut hor Na me First , the year	Article Title	Result and discussio n	concluci on	
Xu (202 5)	storm: How typhoons are reshapin g the corporat e R&D landscap e	ly reduce firms' R&D expenditu re and patent applicatio ns, especially in coastal areas. These impacts are transmitt ed through three main channels: (1) financial constraint s due to economic losses and market uncertain ty, (2) loss of human capital due to migration and safety risks, and (3) infrastruc ture damage that disrupts	hamper firm innovati on through physical damage, financial stress, and organiza tional disruptio n. A resilient innovati on ecosyste m is needed for firms to adapt to extreme climate disasters	

ut Article Result concluci Title or and on ٧a discussio n ne rst the ear R&D activities. SOEs are more resilient than private firms

### Discussion

The relevant literature nsistently shows that financial nstraints are a major obstacle to innovation rporate investment, pecially in developing countries nere access to financing is still nited. He et al. (2025) examined the pact of strict regulation on shadow nking in China that restricted ernative financing avenues and und significant declines in R&D penditure, especially on expensed &D components and non-invention tents that tended to be less strategic. is reinforces the view of trade-off eory and pecking order, where mpanies facing capital constraints efer to prioritize short-term uidity over long-term investments as innovation. This study ch empirical ovides important idence that financial restrictions not ly hinder the quantity of innovation vestment, but also affect the quality d type of innovation produced.

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In addition to internal financial constraints, economic uncertainty and other external factors have also exacerbated the financial impact on innovation. Rana & Debata (2024) their research in India highlights how economic uncertainty reduces the strength of the positive relationship between innovation and investment, in companies especially facing financial constraints. Executive risk preferences are also an important factor influencing innovation investment decisions amid such uncertainty. Meanwhile, Lei & Xu (2025) It shows that natural disasters such as typhoons cause damage to infrastructure and loss of human capital which aggravates financial limitations, thus indirectly suppressing the company's innovation capacity. As such. financial constraints must be understood in a broader context, including external risks and unforeseen events that increase the cost burden and risk of financing innovation.

Public policy interventions are emerging as potential solutions to reduce financial barriers and support corporate innovation. Huang et al. (2025) revealed that the policy of technology and financial integration in China through the PPPITF program has succeeded in reducing financing limitations and accelerating digital transformation, thereby expanding the boundaries enterprise of innovation. This kind of policy helps companies access more flexible

capital and technological resources necessary for innovation. But Sun et al., (2025) warned that green credit policies aimed at sustainability could also tighten financing for certain sectors, especially companies with high pollution intensity, potentially hindering their innovation investments. Therefore, policy design must be balanced so as not to cause a crowding out effect that actually harms innovation, especially in sectors that are most vulnerable to financial restrictions.

In facing financing constraints, companies need to develop adaptive financial management and innovation strategies. The literature shows the importance of diversifying financing sources and optimizing the use of internal capital so that innovation can continue. In addition, accelerating digitalization is key to overcoming financial limitations and improving the efficiency of the innovation process, as explained by Huang et al. (2025). This approach not only helps reduce reliance on traditional sources of financing, but also strengthens innovation capabilities in the face of tight economic and regulatory the other pressures. On hand, companies must also proactively monitor and adjust their strategies in accordance with policy dynamics and market conditions in order to maintain the continuity of innovation. A comprehensive understanding of the relationship between financial constraints and innovation provides

for an important basis the development of effective innovation management practices and public policies. The studies analyzed show that the success of companies' innovations is highly dependent on their ability to manage limited resources and utilize supportive policies. including policies that integrate technological and financial aspects. Therefore, managers and policymakers need to design strategies and regulations that are tailor-made, responsive to the company's industry characteristics and risk profile. This kind of will strengthen approach the company's competitiveness in the global market. while driving innovation that is more sustainable and adaptive to evolving economic and environmental challenges. A understanding of financial deep constraints and their impact on innovation is critical to a company's success in a dynamic and uncertain global era. Recent studies have shown that limited access to finance, whether due to tight regulations, economic uncertainty, or natural disasters, significantly hinders R&D investment and sustainable Therefore. innovation output. companies need to adopt adaptive financial management strategies and utilize integrated financial technology policies that can reduce financial barriers and encourage digitalization, while balancing the impact of environmental policies such as green

credit so as not to hinder innovation. This research is expected to make an important contribution to innovation management practices by opening up opportunities to formulate effective, sustainable, and tailor-made policies and strategies, so that companies can overcome resource limitations, ensure innovation sustainability, and maintain adaptive competitiveness in an increasingly competitive global market.

## CONCLUSION

Financial constraints remain a significant barrier to corporate innovation, particularly in emerging markets where access to formal financing is limited and external pressures, such as economic uncertainty and natural disasters, are prevalent. This study reveals that strict regulations, market uncertainty, and unexpected events elevate both risk and the cost of financing, prompting firms to prioritize shortliquidity term over long-term investments like research and development (R&D).

However, public policy interventions, especially those that integrate technology and finance, can effectively alleviate these constraints and stimulate innovation bv accelerating digital transformation. Nevertheless, policies such as green credit must be carefully designed to avoid restricting innovation investment in vulnerable sectors. As such, firms are advised to adopt adaptive financial management strategies and leverage integrated policy frameworks while aligning with evolving environmental regulations. These actions can help firms overcome resource limitations and sustain innovation and competitiveness in an increasingly volatile global market.

From a theoretical perspective, this contributes to the study advancement of knowledge in innovation management and corporate finance, particularly within the context of developing economies. It expands our understanding of how external dynamics and public policy shape corporate investment behavior in innovation and highlights the importance of aligning fiscal policy, financial regulation, and digital transformation to build a resilient innovation ecosystem.

For investors, the findings offer strategic insights for evaluating firms' innovation potential, especially in sectors and regions susceptible to financial constraints. Investors are encouraged to consider a firm's financial adaptability and digital readiness as key indicators in their investment decisions, as these factors reflect the firm's capacity to endure and grow amidst uncertainty and change.

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