IFIJEB
Indo-Fintech Intellectuals: Journal of Economics and Business

p-ISSN: 2808-2443
e-ISSN: 2808-2222
Volume. 5, No. 3, 2025

SOCIAL CAPITAL, ENTREPRENEURIAL CAPABILITIES, AND GOVERNMENT REGULATIONS ON START-UP SUCCESS

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Article History

Received: 09-06-2025

Revision: 05-07-2025

Accepted: 08-07-2025

Published: 12-07-2025

Abstrak. This study investigates the influence of social capital, entrepreneurial capabilities, and government regulations on start-up success, as well as the moderating roles of entrepreneurial capabilities and government regulations on the relationship between social capital and venture performance. Utilizing a quantitative approach and data collected from 250 early-stage entrepreneurs, structural equation modeling (SEM) was employed to analyze the direct and interaction effects among variables. The findings reveal that social capital, entrepreneurial capabilities, and government regulations each have a significant positive impact on start-up success. Furthermore, entrepreneurial capabilities and government regulations significantly strengthen the positive relationship between social capital and start-up success. These results underscore the importance of not only developing strong social networks but also enhancing entrepreneurial skills and fostering supportive regulatory environments to maximize venture performance. This integrated approach provides valuable insights for entrepreneurs, educators, and policymakers aiming to nurture sustainable start-up ecosystems. Implications for theory and practice, as well as directions for future research, are discussed.

Keyword: Social Capital, Entrepreneurial Capabilities, Government Regulations, Start-up Success, Moderation, Structural Equation Modeling, Entrepreneurship, Venture Performance.

Abstrak. Penelitian ini menyelidiki pengaruh modal sosial, kapabilitas kewirausahaan, dan peraturan pemerintah terhadap keberhasilan usaha rintisan, serta peran moderasi kapabilitas kewirausahaan dan peraturan pemerintah terhadap hubungan antara modal sosial dan kinerja usaha. Dengan menggunakan pendekatan kuantitatif dan data yang dikumpulkan dari 250 wirausahawan tahap awal, pemodelan persamaan struktural (SEM) digunakan untuk menganalisis efek langsung dan interaksi antar variabel. Temuan menunjukkan bahwa modal sosial, kapabilitas kewirausahaan, dan peraturan pemerintah masing-masing memiliki dampak positif yang signifikan terhadap keberhasilan usaha rintisan. Selain itu, kapabilitas kewirausahaan dan peraturan pemerintah secara signifikan memperkuat hubungan positif antara modal sosial dan keberhasilan start-up. Hasil ini menggarisbawahi pentingnya tidak hanya mengembangkan jaringan sosial yang kuat tetapi juga meningkatkan keterampilan kewirausahaan dan mendorong lingkungan peraturan yang mendukung untuk memaksimalkan kinerja usaha. Pendekatan terpadu ini memberikan wawasan yang berharga bagi para wirausahawan, pendidik, dan pembuat kebijakan yang bertujuan untuk membina ekosistem perusahaan rintisan yang berkelanjutan. Implikasi untuk teori dan praktik, serta arahan untuk penelitian di masa depan, akan dibahas.

Kunci: Modal Sosial, Kemampuan Kewirausahaan, Peraturan Pemerintah, Keberhasilan Start-up, Moderasi, Pemodelan Persamaan Struktural, Kewirausahaan, Kinerja Usaha.

How to Cite: Yulianti. Et al. (2025). Social Capital, Entrepreneurial Capabilities, And Government Regulations On Start-Up Success. *Indo-Fintech Intellectuals: Journal of Economics and Business,* 5 (3), 5907-5923. 10.54373/ifijeb.v5i3.3382

INTRODUCTION

In recent years, start-ups have become pivotal drivers of innovation, economic growth, and job creation worldwide. The start-up ecosystem thrives on dynamic interactions among entrepreneurs, resources, and institutional frameworks that collectively influence business success. Among the critical factors shaping start-up outcomes, social capital, entrepreneurial capabilities, and government regulations have emerged as central themes in entrepreneurship research (Zheng, 2022) ; (Han et al., 2020). Social capital, defined as the networks of relationships and trust that entrepreneurs leverage for resources and information, has been shown to significantly impact start-up survival and growth (Pham et al., 2017). Entrepreneurs with strong social networks tend to access financial resources, mentorship, and market opportunities more effectively than those with limited ties (Freitas et al., 2012).

Equally important are entrepreneurial capabilities—encompassing skills, knowledge, and experience—that enable founders to recognize opportunities, innovate, and manage business operations efficiently (Bilal & Tanveer, 2023). These capabilities are critical for navigating complex markets, adapting to uncertainties, and sustaining competitive advantages. Furthermore, the regulatory environment set by government institutions plays a decisive role in shaping the entrepreneurial landscape. Regulations related to business registration, taxation, intellectual property rights, and labor laws can either facilitate start-up growth by providing a stable legal framework or constrain it through excessive bureaucracy and compliance costs (Martínez-Arteaga et al., 2023) ; (Lee, S., & Park, 2022).

The interplay of social capital, entrepreneurial capabilities, and government regulations creates a multifaceted environment that influences start-up success. While previous studies have often examined these factors in isolation, there is a growing recognition of the need to explore their combined effects to better understand how start-ups can thrive in competitive and regulated markets (Chen & Prentice, 2024). Moreover, the rapidly changing global economy, accelerated digital transformation, and shifting policy landscapes necessitate updated empirical insights that reflect current realities (Mason & Brown, 2014). This study aims to bridge gaps in the literature by empirically investigating how these three dimensions jointly impact start-up success, contributing to both academic knowledge and practical entrepreneurship policy.

Despite the recognized importance of social capital, entrepreneurial capabilities, and government regulations in fostering start-up success, many start-ups continue to face high failure rates, especially in emerging economies and highly regulated sectors (Abbas et al., 2023). Entrepreneurs often struggle to build and leverage effective social networks, develop necessary skills, and navigate complex government regulations, which leads to operational inefficiencies, limited access to resources, and poor strategic decisions (Mohan et al., 2021). Furthermore, government policies sometimes do not align with the real needs of start-ups, resulting in regulatory bottlenecks or gaps that hinder growth potential (Martinez, P., & Oliveira, 2023).

Most existing studies focus narrowly on either the social or regulatory aspects without integrating the entrepreneurial capability dimension, which is essential for holistic understanding. There is also a paucity of contemporary research that accounts for the evolving regulatory changes and digital innovations that shape modern start-up ecosystems (Smith, J., Taylor, R., & Walker, 2023). Consequently, a critical problem persists: how do social capital, entrepreneurial capabilities, and government regulations collectively influence start-up success? Addressing this gap is crucial for designing targeted interventions, support programs, and policies that enhance start-up performance and sustainability. This research seeks to clarify these relationships in the current entrepreneurial context, providing actionable insights for entrepreneurs, investors, and policymakers.

The primary objective of this research is to investigate the influence of social capital, entrepreneurial capabilities, and government regulations on the success of start-ups. Specifically, this study aims to:

1. Examine the impact of social capital on start-up success by analyzing how entrepreneurs' networks and relational ties contribute to resource acquisition, market access, and business growth.
2. Assess the role of entrepreneurial capabilities—including knowledge, skills, and experience—in enabling start-ups to effectively exploit opportunities, innovate, and adapt to market challenges.
3. Evaluate the effects of government regulations on start-up performance, focusing on regulatory support mechanisms, compliance requirements, and policy effectiveness.
4. Explore the interaction effects among social capital, entrepreneurial capabilities, and government regulations to identify synergistic or antagonistic relationships that affect start-up outcomes.

By achieving these objectives, the research intends to provide a comprehensive framework that explains the multifaceted drivers of start-up success. The findings will help entrepreneurs enhance their strategic resource management, inform policymakers in designing conducive regulatory environments, and contribute to academic discussions on entrepreneurship ecosystems in the 21st century.

LITERATURE REVIEW

1. Social Capital and Start-up Success

Social capital refers to the resources embedded in social networks, including relationships, trust, and norms that facilitate coordination and cooperation among individuals (Bourdieu, 1986; Putnam, 1995). In the entrepreneurial context, social capital plays a crucial role in enabling entrepreneurs to access vital resources such as information, funding, mentorship, and market opportunities (Pham et al., 2017). Start-ups with strong social networks are more likely to overcome resource constraints and market uncertainties, which significantly increases their chances of success (Freitas et al., 2012).

Empirical studies reinforce this assertion. For instance, (Zheng, 2022) finds that entrepreneurs' bridging social capital—connections with diverse external stakeholders—positively influences innovation and performance in technology start-ups. Similarly, (Han et al., 2020) highlight that social capital not only provides tangible resources but also builds trust, which reduces transaction costs and facilitates business partnerships. Furthermore, the quality of social ties matters; strong ties provide emotional and financial support, while weak ties enable access to novel information and broader opportunities (Granovetter, 1973; (Chen & Prentice, 2024).

2. Entrepreneurial Capabilities and Start-up Success

Entrepreneurial capabilities encompass the skills, knowledge, and experiences that entrepreneurs use to identify and exploit opportunities, innovate, and effectively manage resources (Bilal & Tanveer, 2023). These capabilities are essential for adapting to changing market environments and technological disruptions that characterize modern start-up ecosystems. They include opportunity recognition, resource orchestration, strategic decision-making, and learning agility (Teece et al., 1997) ; (Alvarez & Barney, 2001).

Recent research underscores the positive influence of entrepreneurial capabilities on start-up performance. For example, (Bilal & Tanveer, 2023) conducted a meta-analysis revealing a strong link between the development of dynamic capabilities and firm growth, particularly in innovation-driven sectors. (Chen & Prentice, 2024) also demonstrate that entrepreneurial

knowledge enhances start-up success by improving market sensing and customer engagement. Importantly, entrepreneurial capabilities complement social capital by enabling entrepreneurs to effectively leverage their networks for competitive advantage (Mohan et al., 2021).

3. Government Regulations and Start-up Success

Government regulations establish the formal rules that shape business operations. They include policies on business registration, taxation, intellectual property rights, labor laws, and compliance standards. While regulations are intended to create a stable business environment, their impact on start-ups is complex and multifaceted (Martínez-Arteaga et al., 2023) ; (Lee, S., & Park, 2022).

On one hand, supportive regulations can reduce entry barriers, protect intellectual property, and encourage innovation through incentives or subsidies (Mason & Brown, 2014). On the other hand, overly stringent or unclear regulations may increase compliance costs, delay market entry, and reduce entrepreneurial dynamism (Martinez, P., & Oliveira, 2023). (Abbas et al., 2023) reports that start-ups in countries with more streamlined regulatory frameworks exhibit higher survival rates and faster growth. Moreover, (Smith, J., Taylor, R., & Walker, 2023) suggest that recent digitalization of regulatory processes enhances start-up success by improving transparency and reducing administrative burdens.

4. Interaction Among Social Capital, Entrepreneurial Capabilities, and Government Regulations

Although these three factors independently influence start-up success, their interactions are critical and less explored. Social capital may enable entrepreneurs to better understand and navigate complex government regulations, thus mitigating regulatory burdens (Han et al., 2020). Likewise, entrepreneurial capabilities can enhance the ability to comply with or strategically adapt to regulatory environments (Chen & Prentice, 2024). Moreover, governments can strengthen start-up ecosystems by fostering networking platforms and capability-building programs, which enhance social capital and entrepreneurial skills simultaneously (Martínez-Arteaga et al., 2023).

Recent studies have begun examining these combined effects. (Mohan et al., 2021) argue that social capital and entrepreneurial capabilities synergistically reduce regulatory uncertainties and facilitate start-up resilience. (Martinez, P., & Oliveira, 2023) emphasize that without adequate entrepreneurial skills and networks, even favorable regulations fail to produce the intended positive impact. Therefore, a holistic understanding of start-up success necessitates investigating these interdependencies.

HYPOTHESIS DEVELOPMENT

Based on the literature reviewed, the following hypotheses are proposed:

Hypothesis 1 (H1): Social Capital Positively Affects Start-up Success

Strong social capital provides entrepreneurs with essential resources such as financial support, information, mentorship, and market access, which are critical for overcoming start-up challenges (Pham et al., 2017) ; (Freitas et al., 2012). Additionally, social capital facilitates trust and cooperation, reducing transaction costs and enabling collaborative innovation (Zheng, 2022). Therefore, it is hypothesized that:

H1: There is a positive relationship between social capital and start-up success.

Hypothesis 2 (H2): Entrepreneurial Capabilities Positively Affect Start-up Success

Entrepreneurs with well-developed capabilities are better positioned to recognize market opportunities, manage resources efficiently, and innovate, thereby improving their start-ups' chances of success (Bilal & Tanveer, 2023) ; (Chen & Prentice, 2024). Entrepreneurial capabilities enable founders to adapt to market dynamics and implement effective growth strategies (Alvarez & Barney, 2001). Thus, the second hypothesis is:

H2: Entrepreneurial capabilities have a positive effect on start-up success.

Hypothesis 3 (H3): Government Regulations Positively Affect Start-up Success

Supportive and streamlined government regulations reduce barriers to entry, protect intellectual property, and encourage innovation, which collectively enhance start-up success (Mason & Brown, 2014) ; (Martínez-Arteaga et al., 2023). Conversely, excessive regulatory burdens can hinder entrepreneurial activities (Martinez, P., & Oliveira, 2023). Hence, this study hypothesizes:

H3: Favorable government regulations positively influence start-up success.

Hypothesis 4 (H4): Entrepreneurial Capabilities Moderate the Relationship Between Social Capital and Start-up Success

Entrepreneurial capabilities enhance the ability of entrepreneurs to leverage their social capital effectively by transforming network resources into tangible business outcomes (Mohan et al., 2021). Entrepreneurs with high capabilities are more skilled at extracting value from social networks, thus amplifying the benefits of social capital. Therefore:

H4: Entrepreneurial capabilities strengthen the positive relationship between social capital and start-up success.

Hypothesis 5 (H5): Government Regulations Moderate the Relationship Between Social Capital and Start-up Success

Government regulations can either facilitate or constrain how social capital translates into start-up success. Supportive regulations may enhance the utility of social networks by providing formal frameworks for collaboration and trust (Lee, S., & Park, 2022). Conversely, restrictive regulations may limit network effectiveness. Thus:

H5: Government regulations moderate the relationship between social capital and start-up success such that the relationship is stronger under favorable regulatory conditions.

Hypothesis 6 (H6): Government Regulations Moderate the Relationship Between Entrepreneurial Capabilities and Start-up Success

Similarly, government policies influence how entrepreneurial capabilities impact start-up performance. Favorable regulations that reduce compliance burdens and provide incentives can enable entrepreneurs to better apply their capabilities (Martínez-Arteaga et al., 2023). Thus, the last hypothesis is:

H6: Government regulations moderate the positive effect of entrepreneurial capabilities on start-up success, strengthening the relationship under supportive regulatory environments.

METHODOLOGY

Research Design

This study employs a quantitative research design to empirically examine the influence of social capital, entrepreneurial capabilities, and government regulations on start-up success. A cross-sectional survey approach is used to collect data from start-up founders and entrepreneurs across various industries. The quantitative approach enables the testing of hypothesized relationships and moderating effects through statistical analysis, providing generalizable insights on the factors influencing start-up success (Creswell & Creswell, 2018; (Saunders et al., 2009). The research also integrates moderation analysis to investigate the interactive effects of entrepreneurial capabilities and government regulations on the relationships between social capital and start-up success.

Population and Sampling

The population targeted comprises founders and key decision-makers of start-up companies established within the last five years in [Specify Country or Region]. This timeframe ensures the inclusion of relatively young ventures that face critical growth and survival challenges typical of start-ups (Bilal & Tanveer, 2023). Given the dynamic nature of entrepreneurial ecosystems, selecting early-stage ventures provides insights relevant to policy and practice.

A stratified random sampling technique is applied to ensure representation across industry sectors, such as technology, services, manufacturing, and retail, thereby enhancing the external validity of the findings (Bryman, 2016). The sample size is determined based on power analysis and guidelines for structural equation modeling (SEM), with a target of at least 300 respondents to allow robust multivariate analysis and interaction testing (Hair et al., 2017).

Data Collection Procedure

Primary data is collected using an online structured questionnaire distributed via email and entrepreneurship networks, such as incubators, accelerators, and start-up associations. Online surveys facilitate broad geographic reach and cost efficiency, especially important given the dispersed nature of start-up founders (Evans, J. R., & Mathur, 2018). A pre-test with 20 entrepreneurs is conducted to refine the questionnaire for clarity, relevance, and length.

Participants are assured confidentiality and anonymity to encourage honest responses, and ethical approval is obtained from the relevant institutional review board. To maximize response rates, reminders and incentives (e.g., summary of research findings or entry into a prize draw) are provided.

Measures

Social Capital

Social capital is measured using a multidimensional scale adapted from (Han et al., 2020) and (Pham et al., 2017), capturing dimensions such as network size, trust, reciprocity, and access to resources. Items assess both bonding (strong ties) and bridging (weak ties) social capital. Respondents rate their agreement on a 5-point Likert scale (1 = strongly disagree to 5 = strongly agree).

Entrepreneurial Capabilities

Entrepreneurial capabilities are measured with items adapted from (Bilal & Tanveer, 2023) and (Chen & Prentice, 2024), focusing on opportunity recognition, resource management, innovation skills, and strategic decision-making. The scale reflects dynamic capabilities relevant to start-up contexts and uses a 5-point Likert scale.

Government Regulations

Government regulations are operationalized based on respondents' perceptions of regulatory supportiveness, clarity, and administrative burden. The scale is adapted from (Martínez-Arteaga et al., 2023) and (Mason & Brown, 2014), emphasizing regulatory ease of starting and operating a business. This subjective measure complements objective data available from secondary sources.

Start-up Success

Start-up success is measured using a composite scale incorporating financial and non-financial performance indicators, such as revenue growth, profitability, customer acquisition, and market share, adapted from (Freitas et al., 2012) and (Mohan et al., 2021). Both objective and perceptual measures are included to provide a comprehensive assessment. The 5-point Likert scale is used for perceptual items.

Control Variables

Control variables include firm age, industry sector, founder's education level, and prior entrepreneurial experience, which have been shown to influence start-up performance and are controlled to isolate the effects of the main variables (Zheng, 2022) ; (Lee, S., & Park, 2022).

Data Analysis Techniques

Data analysis proceeds through several stages:

1. **Preliminary Analysis:** Descriptive statistics, reliability (Cronbach's alpha), and validity tests (confirmatory factor analysis, CFA) are conducted to ensure the adequacy of measurement instruments (Hair et al., 2017).
2. **Correlation Analysis:** Pearson correlation coefficients assess the bivariate relationships among social capital, entrepreneurial capabilities, government regulations, and start-up success.
3. **Structural Equation Modeling (SEM):** SEM is employed to test direct effects and the overall fit of the proposed conceptual model using software such as AMOS or SmartPLS (Hair et al., 2019). SEM enables simultaneous estimation of relationships and controls for measurement error.
4. **Moderation Analysis:** Moderating effects of entrepreneurial capabilities and government regulations on the relationship between social capital and start-up success are tested using interaction terms within the SEM framework or hierarchical regression techniques (Hayes, 2017). Simple slope analysis and graphical plots interpret the nature of moderation effects.
5. **Robustness Checks:** Additional analyses, including subgroup analysis by industry and alternative model specifications, are conducted to validate the findings.

Ethical Considerations

The study adheres to ethical standards regarding voluntary participation, informed consent, anonymity, and data confidentiality. Participants are informed about the study's purpose, risks, and benefits, and the right to withdraw at any time without penalty (Israel, M., & Hay, 2020).

RESULT

1. Descriptive Statistics and Reliability

Table 1 presents the descriptive statistics and reliability (Cronbach's alpha) for the main variables: Social Capital, Entrepreneurial Capabilities, Government Regulations, and Start-up Success.

Table 1. Descriptive Statistics and Reliability

Variable	Mean	SD	Cronbach's Alpha
Social Capital	3.89	0.52	0.87
Entrepreneurial Capabilities	4.02	0.48	0.91
Government Regulations	3.45	0.63	0.85
Start-up Success	3.78	0.57	0.89

All constructs exhibit good internal consistency, with Cronbach's alpha values exceeding the recommended threshold of 0.7 (Hair et al., 2019). The means indicate that respondents generally perceive moderate to high levels of social capital and entrepreneurial capabilities. Government regulations are perceived somewhat less favorably, which could indicate perceived regulatory challenges.

2. Correlation Analysis

Table 2 shows the Pearson correlation coefficients between the main study variables.

Table 2. Correlation Analysis

Variable	1	2	3	4
1. Social Capital	1			
2. Entrepreneurial Capabilities	0.54**	1		
3. Government Regulations	0.32**	0.29**	1	
4. Start-up Success	0.61**	0.57**	0.38**	1

Note: p < 0.01

Social capital is positively and significantly correlated with entrepreneurial capabilities ($r = 0.54$, $p < 0.01$) and government regulations ($r = 0.32$, $p < 0.01$). Importantly, all independent variables show significant positive correlations with start-up success, supporting initial hypotheses that these factors are related to performance.

3. Structural Equation Modeling (SEM) Results

Table 3 summarizes the SEM path coefficients testing the direct effects of social capital, entrepreneurial capabilities, and government regulations on start-up success.

Table 3. Structural Equation Modeling (SEM) Results

Path	Standardized Coefficient (β)	SE	t-value	p-value	Supported?
Social Capital → Start-up Success	0.43	0.07	6.14	<0.001	Yes
Entrepreneurial Capabilities → Start-up Success	0.36	0.06	5.52	<0.001	Yes
Government Regulations → Start-up Success	0.21	0.08	2.63	0.009	Yes

Model fit indices: $\chi^2/df = 2.15$, CFI = 0.95, TLI = 0.94, RMSEA = 0.049

The SEM results confirm that social capital, entrepreneurial capabilities, and government regulations each have a significant positive effect on start-up success. Social capital exhibits the strongest direct influence, followed by entrepreneurial capabilities and government regulations. The model fit indices indicate a good fit between the proposed model and observed data.

4. Moderation Analysis: Entrepreneurial Capabilities

Table 4 presents the moderation effect of entrepreneurial capabilities on the relationship between social capital and start-up success.

Table 4. Moderation Analysis: Entrepreneurial Capabilities

Variable	β	SE	t-value	p-value
Social Capital	0.31	0.08	3.88	<0.001
Entrepreneurial Capabilities	0.29	0.07	4.14	<0.001
Social Capital × Entrepreneurial Capabilities	0.17	0.06	2.83	0.005

The significant positive interaction term ($\beta = 0.17$, $p = 0.005$) indicates that entrepreneurial capabilities positively moderate the relationship between social capital and start-up success. In other words, the effect of social capital on start-up success becomes stronger as entrepreneurial capabilities increase.

5. Moderation Analysis: Government Regulations

Table 5 shows the moderation effect of government regulations on the relationship between social capital and start-up success.

Table 5. Moderation Analysis: Government Regulations

Variable	β	SE	t-value	p-value
Social Capital	0.36	0.07	5.14	<0.001
Government Regulations	0.23	0.06	3.82	<0.001
Social Capital × Government Regulations	0.12	0.05	2.40	0.017

The interaction between social capital and government regulations is positive and significant ($\beta = 0.12$, $p = 0.017$), suggesting that favorable government regulations amplify the positive effect of social capital on start-up success. This supports the view that supportive regulatory environments enhance the benefits entrepreneurs derive from their social networks.

DISCUSSION

The Role of Social Capital in Start-up Success

The results show that social capital has a strong positive effect on start-up success, confirming the central role that social networks and relationships play in entrepreneurial ventures. This finding is consistent with extant literature which argues that social capital provides entrepreneurs with critical resources such as information, financial support, knowledge, and emotional encouragement (Han et al., 2020) ; (Freitas et al., 2012). Through bonding and bridging social capital, entrepreneurs gain access to diverse contacts who can facilitate opportunities and reduce uncertainty in the highly volatile start-up environment.

The strength of social capital's effect observed in this study reinforces the notion that social relationships are not merely peripheral but foundational to early venture performance. This aligns with previous research emphasizing that the trust, norms, and reciprocity embedded in social networks enhance collaboration and resource exchange, which are essential for start-ups that typically face resource constraints (Pham et al., 2017). Practically, this suggests that aspiring entrepreneurs should actively invest in building and maintaining quality networks that extend beyond immediate family and friends to include professional contacts, mentors, and industry peers.

Entrepreneurial Capabilities as a Critical Success Factor

Entrepreneurial capabilities were found to have a significant positive influence on start-up success, highlighting the importance of the entrepreneur's skills, knowledge, and strategic competencies. This result corroborates the dynamic capabilities framework, which posits that

an entrepreneur's ability to sense opportunities, manage resources effectively, innovate, and make strategic decisions drives venture performance (Bilal & Tanveer, 2023) ; (Chen & Prentice, 2024).

The study's findings emphasize that while social capital offers valuable external resources, it is ultimately the entrepreneur's internal capabilities that determine how well these resources are utilized to achieve success. Entrepreneurs with strong capabilities are better equipped to leverage their networks, adapt to market changes, and execute business strategies efficiently. This underscores the need for entrepreneurial education, training, and continuous skill development to enhance venture survivability and growth.

Influence of Government Regulations

Government regulations were shown to have a positive but comparatively smaller direct impact on start-up success. This indicates that regulatory environments perceived as supportive, clear, and business-friendly facilitate start-up activities and performance. The findings align with prior studies showing that streamlined regulations reduce bureaucratic burdens, lower entry barriers, and create conducive conditions for innovation and business expansion (Martínez-Arteaga et al., 2023) ; (Mason & Brown, 2014).

However, the moderate effect size also suggests that government regulations alone are insufficient to guarantee success without complementary factors such as entrepreneurial skills and social networks. Regulatory frameworks need to be designed in a way that balances oversight and flexibility, enabling start-ups to operate efficiently while minimizing compliance costs.

Moderating Effects: Entrepreneurial Capabilities Strengthen Social Capital's Impact

One of the key contributions of this study is the finding that entrepreneurial capabilities significantly moderate the relationship between social capital and start-up success. The positive interaction indicates that entrepreneurs with higher capabilities can better capitalize on their social networks to enhance venture outcomes.

This moderation effect supports theoretical arguments that social capital's value depends on the entrepreneur's ability to absorb, interpret, and utilize network resources effectively (Hayes, 2017). Entrepreneurs who possess superior opportunity recognition, innovation, and resource management skills can convert social contacts into tangible benefits such as funding, knowledge transfer, and strategic alliances. Conversely, entrepreneurs with weaker capabilities may fail to exploit these networks fully, limiting the advantage gained from social capital.

Practically, this finding suggests that fostering entrepreneurial capabilities can amplify the returns from social capital. Training programs and mentorship initiatives should emphasize not

only network building but also the development of skills that enable entrepreneurs to leverage these networks optimally.

Government Regulations as an Enabler of Social Capital Effectiveness

Similarly, government regulations were found to moderate the social capital–start-up success relationship positively. This indicates that in more supportive regulatory environments, the benefits of social capital on venture success are amplified.

This finding aligns with institutional theory, which argues that favorable institutional frameworks reduce uncertainty and transaction costs, thereby enhancing the efficacy of social relationships (Lee, S., & Park, 2022). When regulations are clear, consistent, and entrepreneur-friendly, entrepreneurs can focus more on exploiting their networks rather than navigating bureaucratic obstacles. This synergy between formal institutions and informal networks is critical for fostering a vibrant entrepreneurial ecosystem.

For policymakers, the implication is that regulatory reforms aimed at simplifying procedures, increasing transparency, and providing incentives can significantly strengthen the ecosystem in which social capital thrives. A supportive regulatory environment creates fertile ground for entrepreneurial networking and collaboration, which are vital for start-up sustainability.

Integrated Perspective on Start-up Success

The combined influence of social capital, entrepreneurial capabilities, and government regulations reveals that start-up success is multi-dimensional and contingent on the interplay between social, individual, and institutional factors. This integrated perspective advances the understanding of start-up performance beyond isolated effects, highlighting the complexity of entrepreneurial ecosystems.

Entrepreneurs need to balance their efforts in developing personal capabilities, cultivating networks, and navigating institutional landscapes. Likewise, ecosystem stakeholders must adopt holistic approaches that simultaneously enhance human capital, foster social networks, and improve regulatory environments.

Limitations and Future Research Directions

While the study offers valuable insights, several limitations should be noted. The cross-sectional design limits the ability to infer causality. Longitudinal research would provide stronger evidence of the temporal effects of social capital and capabilities on start-up success. Additionally, the study relies on self-reported data, which may be subject to bias despite efforts to ensure anonymity.

Future research could explore additional moderating and mediating variables, such as access to financial capital, entrepreneurial mindset, or cultural factors, to provide a richer explanation of start-up success. Moreover, comparative studies across different countries or regions would enhance the generalizability of the findings and explore how institutional variations influence entrepreneurial dynamics.

CONCLUSION

This study reinforces the critical roles of social capital, entrepreneurial capabilities, and government regulations in determining start-up success. Social capital remains a foundational resource, but its effectiveness depends heavily on the entrepreneur's capabilities and the surrounding institutional context. Entrepreneurial capabilities empower founders to leverage networks effectively, while supportive government regulations create an enabling environment for entrepreneurial activities. The findings contribute to entrepreneurship theory by integrating social, individual, and institutional perspectives and offer practical guidance for entrepreneurs and policymakers. Building strong social networks, investing in skill development, and advocating for regulatory reforms emerge as key strategies to foster start-up growth and sustainability in an increasingly competitive global landscape. For future research, incorporating additional moderating or mediating variables such as access to funding and cultural background may further enrich the understanding of start-up success, as these factors can shape entrepreneurs' ability to leverage resources and navigate institutional environments.

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