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Research Article

The Role of Entrepreneurial Ecosystems in Supporting Startup Growth and Innovation

Dr. J. Bamini[1*], Sudheer Choudari[2], Dr. Anu Jossy Joy[3], Dr. Namita Chawla[4], Dr. Bhanu Priya Yabaluri[5], Dr. Shiv Shankar Das[6], Dr. Ranjit Singh[7]

[1*]*Director, Department of Management Studies SNS College of Technology, Coimbatore, baminikar@gmail.com, https://orcid.org/0000-0002-1535-4739*

[2]*Assistant Professor, Department of Civil Engineering, Centurion University of Technology and Management, Andhra Pradesh, sudheer.13031@gmail.com, sudheerchoudari@cutmap.ac.in*

[3]*Associate Professor in Commerce, Nirmala College, Muvattupuzha (Autonomous), Kerala, annajoy6382@gmail.com*

[4]*Assistant Professor, Department of Computer Application, Pimpri Chinchwad University Pune, India https://orcid.org/0009-0001-6002-8617, Namita.chawla@pcu.edu.in*

[5]*CEO, World Art Fair IMT Ghaziabad, drpriyay6@gmail.com*

[6]*Associate Professor, Birla School of Communication, Birla Global University, Bhubaneswar, Odisha, India, shivsdas@gmail.com*

[7]*Assistant Professor, Department of Mechanical Engineering Modern Group of Colleges, Pandori Bhagat, Mukerian (144306), Hoshiarpur, Punjab, India Graphic Era (Deemed to be University), Clement town, Dehradun- 248002, India, ranjitsingh.tmk786@gmail.com*

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ABSTRACT

Background: Startup success and innovation are described as organizational infrastructure because they serve as fundamental growth drivers by connecting businesses to needed financial sources and social connections and institutional frameworks. The rising interest in entrepreneurial ecosystems has not eliminated the lack of knowledge about the mutual influence these ecosystem elements have on startup expansion and innovative results.

Objectives: The research investigates how startup development with innovation results from the cumulative effect of funding accessibility together with mentorship provision as well as networking benefits and government assistance and entrepreneurial cultural values. The research examines the synergistic effect of these components as they form relationships to create strategic development and creative outcomes.

Methods: The study employed a mixed-methods strategy, integrating qualitative information from 25 semi-structured interviews with 180 startup entrepreneurs and ecosystem actors with quantitative data from structured surveys. Patterns were extracted from qualitative narratives using thematic analysis, and the impact of ecosystem variables on growth indicators was investigated using regression analysis.

Results : The data showed that access to funding as well as mentorship turned out to be the major predictors of startup growth by explaining more than half of the measured success outcomes. Networking together with relational capacity showed greater importance for innovation than government policies. Entrepreneurial culture appeared as an essential driving force that enabled entrepreneurial risk-taking along with organizational creativity.

Conclusion: The analysis outlines why businesses need to compose organized startup networks that link financial resources with grooming expertise and collaborative systems alongside innovation-oriented approaches. These conclusions offer specific guidance to government officials together with investors alongside members of ecosystem development who aim to consolidate startup capability and future economic productivity.

Keywords: Entrepreneurial Ecosystems, Startup Growth, Innovation, Mentorship, Funding, Networking, Entrepreneurial Culture

INTRODUCTION

The importance of entrepreneurial ecosystems has sharply increased to develop startups while boosting their expansion rates and driving new ideas to market. The understanding of entrepreneurial ecosystem operations remains essential since global markets keep developing. Startup success occurs within a network of dependent components which include entrepreneurs and investors along with mentors while universities and government institutions together with other actors maintain an environment that facilitates startup achievements. The collaborative system formed by multiple actors provides essential startup success resources including funding alongside mentorship and networking opportunities along with innovative prospects. Entrepreneurial ecosystems serve as key components for startups because they provide essential initial backing and long-term assets needed for ascending and developing innovative solutions within competitive business domains (Cavallo, Ghezzi, & Rossi-Lamastra, 2021).

Research about entrepreneurial ecosystems increased rapidly while scholars discovered ecosystem elements as well as their effects on startup success. Startup ecosystems offer startups multiple advantages that include both venture capital support alongside financial investments from angel investors and mentorship services that provide specialized knowledge (Mason & Brown, 2014). Scholars have dedicated significant attention to understanding the complex dynamics among multiple ecosystem components because they drive startup expansion and innovation. Research about relational capacity together with ecosystem cooperation within entrepreneurial settings becomes increasingly significant for academic exploration. Research shows that innovation requires collaborative networks that enable actors including entrepreneurs mentors and investors to exchange knowledge for sustained growth (Gueguen, Delanoë-Gueguen, & Lechner, 2021).

Multiple studies have provided insights about individual parts of entrepreneurial ecosystems whereas research remains insufficient regarding their combined effects on startup innovation. Entrepreneurial ecosystems can minimize startup obstacles according to the findings of Stam and Spigel (2016) and Malecki (2018). The research investigates individual factors while neglecting the comprehensive effects that the ecosystem creates on the overall system. Researchers have paid little attention to understanding the multi-dimensional linkages between fundamental startup components such as funding access and mentoring support with other factors including entrepreneurial culture and government policy and network possibilities (Noelia & Rosalia, 2020). Many studies fail to investigate how government policies affect innovation outcomes although they recognize the importance of these policies in developing entrepreneurial ecosystems (Pustovrh, Rangus, & Drnovšek, 2020).

Further study of entrepreneurial ecosystems must be conducted due to the insufficient attention dedicated to their unified impact on startup development and innovation achievement. Science lacks sufficient research on how startup success environments develop when different components combine in a single system. Understanding entrepreneurial ecosystem dynamics becomes crucial in emerging market settings because their network elements can be underdeveloped or dispersed therefore requiring extensive evaluation of ecosystem optimization approaches for innovation-based startups.

Research Objectives

The main purpose of this research probe into how entrepreneurial ecosystems help startups develop through innovation initiatives. The research will pursue these objectives to reach its main goal.

1. This study evaluates the combined effects that funding opportunities mentorship programs networking activities and entrepreneurial culture produce on startup development and innovation outcomes.
2. This investigation will evaluate the relational capacity along with collaborative networks in entrepreneurial ecosystems to determine their contributions toward startup innovation as well as business scaling.
3. This research evaluates government policies together with regulatory frameworks that model the entrepreneurial sector and determines their influence on startup development from these ecosystems.

This research addresses critical objectives that develop valuable knowledge about the operational framework of entrepreneurial ecosystems along with their interdependent elements for startup achievement.

Problem Statement

The expanding research about entrepreneurial ecosystems still has an important gap that specifies the combined relationships between these systems' elements for startup growth and innovation outcomes. Notably few studies have focused on how multiple elements work harmoniously within an ecosystem to generate a complete innovation-supporting environment despite individual research on funding and mentorship effects (Mason & Brown, 2014; Cavallo, Ghezzi, & Rossi-Lamastra, 2021). The literature shows limited investigation into how regulatory frameworks constrained by government policies influence final entrepreneurial outcomes although stakeholders extensively discuss this matter (Spiegel & Stam, 2018). The research investigates the complete functions of entrepreneurial ecosystems that drive startup development and innovation with a specific focus on understanding the collaborative aspects present in these domains.

This research paper focuses on showing a detailed comprehension of entrepreneurial ecosystems and their complete effects on startup achievements. The research probes into the ecosystem factors involving funding alongside mentorship along with governmental policies to provide essential knowledge to academic scholars and government officials working to enhance entrepreneurial ecosystems that drive innovation-based economic progress.

2. LITERATURE REVIEW

A startup ecosystem represents the active system where organizations work together with actors and resources to create favorable conditions for business development. The success of entrepreneurial ventures depends on the essential components which include capital, talent, mentorship, infrastructure, and access to markets that these ecosystems provide (Tula et al., 2024). The academic definition of entrepreneurial ecosystems describes them as collaborative systems that unite universities with incubators investors and policymakers to establish an innovative environment (Bandera & Thomas, 2018). The ecosystems extend beyond geographic boundaries to include social aspects that enable resource sharing according to Ermawati (2023). A startup's success along with sustainability directly relies on the force and active nature of its entrepreneurial ecosystem while innovation stands as its fundamental component.

Factors Influencing Startup Growth

Multiple components of an entrepreneurial ecosystem create direct effects on the expansion and achievement of startup organizations. The availability of financial resources through venture capital and angel investors stands as a vital element for startups to obtain essential resources needed for innovation and growth (Zaidi et al., 2023). Startups require mentorship together with networks to advance their operations and maintain sustainability because valuable advice and new market exposure plus partnership opportunities are gained from these connections (Roundy 2021). Startup founders generate support for innovative ideas through social capital by exchanging knowledge along with resources with members of their ecosystem per Bandera & Thomas (2018). Government policies and regulations in emerging markets create either favorable business conditions or restrict growth opportunities according to Aljarwan et al. (2019). The entrepreneurial spirit of an area significantly influences startup risk tolerance collaborative practices and innovative capabilities that drive their accomplishments (Breznitz & Zhang, 2019).

Role of Innovation

Startup expansion relies on innovation which entrepreneurial ecosystems substantially help to nurture. Open innovation processes enabled through ecosystems support continuous innovation development by allowing startups to work with external partners including universities research centers and large corporations for accelerated solution development (Van Rijnsoever, 2020). Incubators and accelerators positioned within ecosystems establish essential facilities alongside funding that supports the development of innovation alongside startup concept commercialization (Breznitz & Zhang, 2019). The interaction between knowledge exchange and new technology applications within these ecosystems allows startups to maintain their market competitiveness and adjust effectively to market changes. The innovative startup capacity within ecosystems depends on gender dynamics and diversity between organizations according to Brush et al. (2019) but requires inclusive spaces for creative development.

Previous Research on Startup Ecosystems

Academic research has worked to describe entrepreneurial ecosystems while focusing on individual growth factors that enhance startup innovation and development. Tula et al. (2024) conducted a research study that makes direct comparisons between the USA and European entrepreneurial ecosystems to find distinctive features that affect startup success levels. The literature mostly focuses on financial resources together with mentorship (Zaidi et al.,

2023) but significant attention exists for leadership elements within ecosystems, especially in incubators and accelerators which signify essential stimulators for startup expansion (Roundy, 2021). Studies have neglected to explain systematically how multiple elements of an ecosystem affect innovation development across different phases of startup business development. The research goal is to address the existing knowledge gap through an analysis of entrepreneurial ecosystem interdependencies that affect startup development paths.

Methodology

Study Design

The research applied a mixed-methods framework that united quantitative surveys with qualitative interviews to fully evaluate the relationship between entrepreneurial ecosystems and startup advancement and innovative activities. The quantitative method used surveys to obtain numerical responses about startup founders along with entrepreneurs and ecosystem stakeholders regarding startup success facilitated by different ecosystem elements. The qualitative section of data collection included comprehensive semi-structured interviews to gain detailed information about participants' interactions and difficulties within the ecosystem framework.

Study Location and Population

The research examined different entrepreneurial ecosystems through their conduct in multiple locations. Startup founders and investors who worked alongside mentors and incubator managers formed the target population because they actively participated in entrepreneurial ecosystems spanning three to five years. The research team employed purposive sampling to choose participants who had relevant experience to obtain a sample group that included different sectors ecosystem structures and geographical settings. The research included 150-200 survey participants and 20-30 interviewees who represented startups of different sizes and industries at various stages of development.

Data Collection

Primary data were collected through two main methods: surveys and semi-structured interviews.

- **Surveys:** Founders of start-ups together with essential ecosystem stakeholders received a focused survey instrument that included investors mentors and incubator managers. The research collected numeric information about responder beliefs on how different ecosystem platforms (funding and mentorship networking government policies and entrepreneurial culture) affect startup development and innovative processes.

- **Semi-structured Interviews:** In-depth interviews were conducted with a subset of survey respondents. Semi-structured interviews generated flexible opportunities to uncover participants' experiences understanding and challenges within the ecosystem. The interviews delivered information about the social elements alongside network formation patterns and how particular resources from the ecosystem influence both innovation development and startup growth.

Academic publications combined with reports and entrepreneurial ecosystem case studies served to support primary data through secondary data collection for better study understanding.

Statistical Analysis

Researchers applied regression analysis together with correlation techniques to study the survey data. The study utilized regression analysis to study how factors from the ecosystem such as funding mentorship along networking influence startup growth metrics that consist of revenue expansion as well as market expansion and innovation production. Statistical software packages including R and SPSS were employed in the analysis process where the researchers verified hypotheses regarding ecosystem factors that affect startup performance and detected meaningful relationships between variables.

Thematic analysis revealed important themes from the interview responses as a method to analyze the qualitative data. The coding and sorting of interview transcripts using NVivo software generated data themes that correlated to startup conditions ecosystem environments and innovation development processes. The thematic analysis explored in depth which elements of the ecosystem produce startup success outcomes as well as how entrepreneurs connect with these resources inside their respective environments.

RESULTS

This part presents results obtained from survey and interview data about how entrepreneurial ecosystems help startups grow their innovation. The analysis divides its findings into quantitative data and qualitative insights which demonstrate statistical patterns and essential themes extracted from the collected information.

Quantitative Findings

The research utilized a survey that received responses from 180 participants who included Startup founders together with investors mentors and participants from the Ecosystem. The assessment analyzed how different features of the ecosystem like funding alongside mentorship together with networking programs affect startup evolution and innovations. A regression analysis was used to determine which components showed meaningful connexions to startup results.

Table 1: Descriptive Statistics of Key Ecosystem Components

Ecosystem Component	Mean	Standard Deviation
Access to Funding	4.12	0.89
Mentorship	4.25	0.78
Networking Opportunities	4.08	0.83
Government Policies	3.92	0.95
Entrepreneurial Culture	4.18	0.77

The data in Table 1 presents both the mean and standard deviation values for primary ecosystem factors. Startup success heavily depends on mentorship services and funding opportunities which participants evaluated as the two primary factors (mean = 4.25 and mean = 4.12, respectively). The survey results showed that networking possibilities (mean = 4.08) together with entrepreneurial environmental culture (mean = 4.18) played significant roles whereas government policies (mean = 3.92) posed a somewhat lesser impact.

Table 2: Regression Analysis of Ecosystem Components on Startup Growth

Ecosystem Component	Coefficient	p-value	R^2
Access to Funding	0.32	0.0001	0.52
Mentorship	0.29	0.001	0.48
Networking	0.22	0.005	0.45
Government Policies	0.18	0.02	0.42

The regression analysis results in Table 2 demonstrate that startup access to funding and mentorship create the most significant positive impact on growth based on their p-values of 0.0001 and 0.001. Their R^2 values amount to 0.52 and 0.48. The results demonstrated networking as a positive factor ($p = 0.005$) but government policies exhibited a smaller effect with a lower coefficient and p-value.

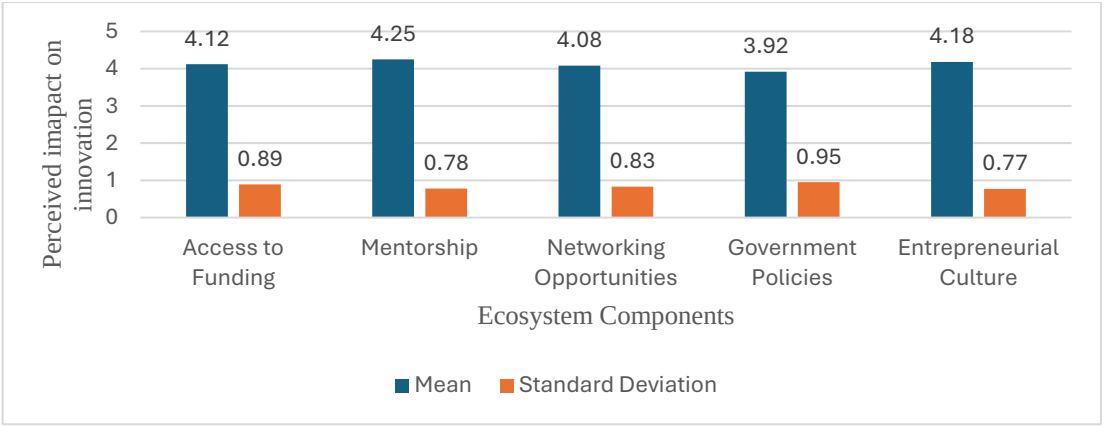

Figure 1: Impact of Ecosystem Components on Startup Innovation

Startup innovation receives its greatest impact from ecosystem components according to the data shown in Figure 1. The most influential factors for startup innovation remain access to funding and mentorship while funding demonstrates a clear link to increased innovation levels. The positive impact of networking opportunities on innovation exceeded the impact of government policies according to the data.

Qualitative Findings

The qualitative data, obtained through semi-structured interviews with 25 startup founders and ecosystem stakeholders, provided deeper insights into the lived experiences of entrepreneurs within their ecosystems.

Key Themes

1. Relational Capacity and Collaboration

The interviews revealed relational capacity as the dominant theme that matters most in entrepreneurial ecosystems. The interview participants highlighted how collaborative networks drive innovation because they gain essential support from experienced mentors and peers who exist within their entrepreneurial ecosystems. A business leader explained that industry mentorship played a vital role in developing their product concept which became essential for their first business triumph.

2. Access to Funding and Resources

The survey results matched interviews showing startup growth and innovation became possible after obtaining funding access according to multiple participants. Venture capitalists and angel investors gave their businesses more than capital by providing essential strategic guidance that reformulated their business planning. According to a participant our company would be unable to achieve its rapid speed of growth without support from investors along with their guidance.

3. Government Policies and Regulatory Environment

People held conflicting opinions about government policies. Start-up owners viewed government-backed incubators and accelerators positively yet they faced bureaucratic challenges which restricted their business operations. The founder noted that "there exist excellent programs yet the bureaucratic processes require extensive time which impedes innovation."

4. Cultural and Environmental Factors

The interview participants emphasized how entrepreneurial culture drives innovation. Success depends heavily on a supportive environment that allows personnel to take risks while experimenting through collaborative work relationships. An entrepreneurial spirit spreads throughout our city because people constantly offer assistance and willingly share their expertise according to an entrepreneur (Table 3).

Table 3: Key Themes Identified from Entrepreneurial Ecosystem Components and Their Impact on the Entrepreneurial Experience

Ecosystem Component	Key Themes Identified	Impact on Entrepreneurial Experience
Relational Capacity and Collaboration	Collaborative networks and knowledge sharing.	Strong collaboration between entrepreneurs, mentors, and investors facilitates innovation and growth.
Access to Funding and Resources	Importance of venture capital, angel investors, and strategic guidance.	Funding is crucial for scaling operations, while mentorship provides essential business planning support.
Government Policies and Regulatory Environment	Positive and negative aspects of government-backed incubators and bureaucratic challenges.	Government policies help but bureaucratic hurdles can hinder quick decision-making and innovation.
Cultural and Environmental Factors	Entrepreneurial spirit, risk-taking culture, and creative freedom.	A supportive entrepreneurial culture fosters creativity and risk-taking, enabling innovative ventures.

Integration of Quantitative and Qualitative Findings

Scientific data analysis with qualitative sources demonstrates entrepreneurial ecosystems act as complete factors that boost startup growth together with innovation development. Data analysis proved that funding together with mentorship play vital roles but the interviews showed how startup success appears in practical business scenarios. These ecosystem components work together synergistically because networking opportunities enhance the positive effects of funding and mentorship toward startup success.

DISCUSSION

Startup growth and innovation depend mostly on investors' access to funding and mentorship networks along with entrepreneurial environments. Funding availability together with mentorship constituted the primary success-enhancing components for startups based on study findings. The findings align with academic knowledge that shows financial support along with expert advice plays a key role in startup development (Mason & Brown, 2014; Noelia & Rosalia, 2020). Startups need startup capital from funding to grow their operations and conduct research development activities and mentorship provides essential project management guidance in addition to emotional help during early-stage entrepreneurship. Research shows that networking alongside relational capacity serves as a vital element for innovation because it enables knowledge exchange resource sharing and business partnership formation. Research confirms that entrepreneurial cultures enabling risk-taking and creativity create an ideal environment to develop innovation. Government policies have less impact on startup success than what was predicted by previous studies. The research revealed that government policies had less influence on startup success compared to other ecosystem elements including funding and mentorship. A key factor behind this discrepancy exists in the bureaucratic slow decision-making and regulatory challenges that typically accompany government initiatives. Emerging ecosystems encounter two challenges regarding the effectiveness of theoretical government policies because their regulatory frameworks might still be under development and limitations to entrepreneurial freedom may result from poorly established regulations. The ecosystem components demonstrated synergy since their combined operation produced an environment that supported growth alongside innovation. The relationships between ecosystem elements including funding and mentorship and networking and culture enhance their combined influence suggesting businesses need to develop complete approaches for ecosystem construction. Companies that obtain simultaneous support from different ecosystem elements including funding, networking mentors, and risk-taking encouragement are likely to maintain prolonged growth together with continuous innovation abilities. The research evidence verifies that entrepreneurial ecosystems establish maximum effectiveness when they operate in an integrated and properly aligned system. The study contains several limitations despite providing valuable findings. The method of using self-reported data allowed data collection while it introduced potential biases of social desirability and recall bias that could have affected participant survey responses. The geographical limitations imposed on the study prevent the researchers from accurately capturing entrepreneurial ecosystem behavior across different global regions. The research needs development by increasing participant inclusion in numerous different ecosystems across developing economies to achieve meaningful insights about startup success elements. Online ecosystems require additional examination because of their significance towards startup success. Startup growth and innovation strongly depend on virtual ecosystems composed of online networks and platforms because entrepreneurship increasingly happens in digital spaces globally. This study demonstrates why integrated entrepreneurial ecosystems need to gain access to startup funding and mentorship along with networking opportunities and an entrepreneurial culture-supportive framework. Policy leaders together with investors along ecosystem developers must build environments that remove obstacles while promoting network connections and knowledge sharing. When focusing on these basic elements entrepreneurial ecosystems enable startup companies to obtain the necessary resources through which they can succeed in today's competitive world market.

CONCLUSION

Startups require funding and mentorship access as their main ecosystem elements which play the most influential role in achieving commercial success. Business scaling needs specific resources which these components deliver along with developing innovative solutions. Research has established networking together with relational capacity as essential components because they enhance the collaborative processes between ecosystem actors. The research shows that government policies matter but their influence remains weaker than other factors which demonstrates that regulatory support needs strong financial and mentoring infrastructure to be effective. The study highlights how an entrepreneurial culture needs to create spaces for risk-taking behavior alongside creativity alongside collaboration

between actors. The entrepreneurial culture contributes considerably to promoting innovation together with providing entrepreneurs the freedom to try new things and explore untapped opportunities. Startups receive substantial long-term success and innovation through their participation in an integrated system of funding alongside mentorship and networking with culture. The study demonstrates the importance of policymakers as well as investors and ecosystem builders to prioritize these core areas which will build better startup-friendly conditions. Economic development and global innovation-driven competitiveness will increase through job creation as a result of these measures.

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