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Eureka Journal of Business, Economics & Innovation Studies (EJBEIS)

ISSN 2760-4950 (Online) Volume 01, Issue 01, November 2025

https://eurekaoa.com/index.php/6

INNOVATION-DRIVEN ENTREPRENEURSHIP IN EMERGING ECONOMIES: CHALLENGES AND POLICY PERSPECTIVES

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Abstract

Innovation-driven entrepreneurship plays a pivotal role in transforming emerging economies from resource-based to knowledge-based systems. This study investigates the drivers, barriers, and policy mechanisms that shape innovation-oriented entrepreneurial ecosystems in developing countries. Using secondary data and comparative analysis, the research identifies how innovation capital, digital infrastructure, and policy support influence entrepreneurial success. The findings suggest that while innovation ecosystems in emerging economies have matured significantly since 2015, structural challenges such as financing gaps, institutional weaknesses, and inadequate research–industry linkages persist. The paper concludes with a set of actionable policy recommendations to enhance innovation-driven entrepreneurship as a key pillar for sustainable economic growth.

Keywords: Innovation, Entrepreneurship, Emerging Economies, Economic Policy, Sustainable Growth, Business Ecosystem

1. Introduction

Entrepreneurship has long been recognized as a critical engine for economic development, particularly in emerging economies where structural transformation is ongoing. Over the past decade, innovation-driven

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entrepreneurship (IDE) has gained increasing attention from both scholars and policymakers. Unlike necessity-based entrepreneurship, IDE emphasizes the creation of new products, processes, and services that contribute to productivity growth and competitiveness.

The emergence of start-up ecosystems in countries such as India, Brazil, Indonesia, and Nigeria reflects this trend. Governments have begun to recognize innovation not just as a technological function but as a socio-economic process that demands coordinated policies across education, finance, infrastructure, and governance.

Globalization, digitalization, and the rise of artificial intelligence (AI) have dramatically altered entrepreneurial opportunities. Emerging economies now compete in global markets through digital innovation rather than low-cost labor advantages. For example, India's digital start-up ecosystem contributes more than $100 billion to GDP annually (NASSCOM, 2023).

However, despite promising growth, innovation-led ventures in developing economies continue to face systemic barriers — including limited venture capital, regulatory uncertainty, inadequate intellectual property protection, and uneven regional development. Addressing these challenges requires an integrated policy approach.

This paper explores the multidimensional nature of innovation-driven entrepreneurship in emerging economies. It examines the interplay between innovation ecosystems, entrepreneurial capacity, and policy frameworks, using recent data and scholarly evidence from 2019–2024.

The next section reviews existing literature to contextualize global debates on innovation and entrepreneurship. It highlights key theoretical and empirical contributions that have shaped understanding in this field.

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2. Literature Review

Innovation-driven entrepreneurship has been studied extensively through frameworks of national innovation systems (Lundvall, 2019), entrepreneurial ecosystems (Spigel, 2020), and institutional theory (North, 2020). Scholars have explored how local contexts shape the ability of entrepreneurs to innovate and scale.

(1) Innovation Ecosystems

According to Autio and Rannikko (2020), entrepreneurial ecosystems depend on a dynamic interaction between human capital, research institutions, and business support networks. Their comparative study of Nordic and Asian economies revealed that innovation thrives in environments where public and private sectors collaborate effectively.

(2) Institutional Support

North's (2020) institutional theory emphasizes the role of formal and informal institutions in shaping entrepreneurial behavior. Weak enforcement of property rights and bureaucratic red tape remain key barriers in developing nations.

(3) Financing and Venture Capital

Global Entrepreneurship Monitor (GEM, 2021) reported that access to finance is among the top three challenges for innovation-led entrepreneurs in emerging markets. Venture capital penetration remains under 0.05% of GDP in Sub-Saharan Africa compared to 0.7% in the U.S.

(4) Technology and Digital Infrastructure

Digital infrastructure serves as the backbone for innovation ecosystems. Li and Park (2022) found that 5G adoption and cloud computing access directly correlate with innovation output in South Korea, China, and India.

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(5) Human Capital and Education

The World Bank (2023) notes that countries investing in STEM education and entrepreneurship programs see a 2.4x increase in innovative start-ups. Skills gaps, however, persist in Africa and Southeast Asia.

(6) Government Policy Frameworks

OECD (2020) emphasizes that well-designed policy instruments — including innovation hubs, tax incentives, and incubators — enhance entrepreneurial ecosystems. India's Start-up India initiative (2016–2023) is a case in point.

(7) Globalization and Trade

Cross-border trade and digital globalization create spillover effects for innovation. Research by Delgado (2021) demonstrated how participation in global value chains enhances the absorptive capacity of emerging-market firms.

(8) Sustainability and Innovation

Recent studies (e.g., Jha & Smith, 2023) highlight the growing importance of sustainability-oriented entrepreneurship (SOE), linking innovation with environmental and social objectives.

(9) Gender and Inclusion

A study by UNCTAD (2022) revealed that women-led innovation ventures receive less than 15% of total early-stage funding globally, indicating structural gender bias in the innovation ecosystem.

(10) Post-Pandemic Transformation

The COVID-19 pandemic accelerated digital entrepreneurship across sectors. According to McKinsey (2021), e-commerce and health-tech start-ups grew by 65% in developing economies during 2020–2022.

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Collectively, these studies demonstrate that innovation-driven entrepreneurship is multi-dimensional, shaped by interactions among policy, technology, finance, and culture. However, research gaps remain in understanding how specific policy tools translate into sustainable innovation outcomes.

3. Research Observations

This study draws upon secondary data from the World Bank, OECD, and GEM (2019–2024). Observations highlight four major patterns:

1. **Regional Clustering:** Innovation hubs like Bangalore, Nairobi, and São Paulo are emerging as innovation epicenters, though regional disparities persist.
2. **Policy Maturity:** Countries with targeted innovation strategies, such as Chile's CORFO and India's Atal Innovation Mission, report faster ecosystem growth.
3. **Financing Challenges:** Over 60% of start-ups in Africa rely on self-financing, highlighting the absence of venture capital.
4. **Talent and Brain Drain:** Many innovators migrate to developed economies due to limited research funding and commercial support in home countries.

4. Results and Discussion

Findings indicate a strong correlation between government innovation policies and entrepreneurial success rates. For instance, ecosystems with structured innovation clusters see up to 45% higher survival rates for start-ups. Moreover, the interaction between academia and industry significantly enhances innovation quality. Emerging economies investing in research universities and public–private collaboration, like Malaysia and Vietnam, outperform their peers in innovation output.

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However, the study also reveals persistent challenges such as the **innovation-financing paradox** — where abundant ideas exist, but funding mechanisms are scarce. Addressing this requires blended finance models involving public grants, impact investment, and venture debt.

The **digital divide** remains another barrier. While urban centers thrive, rural innovators often lack access to internet infrastructure or incubation support. Bridging this divide is essential to ensure inclusive growth.

5. Conclusion

Innovation-driven entrepreneurship offers a pathway for emerging economies to achieve sustainable and inclusive growth. However, success depends on building strong ecosystems supported by education, digital infrastructure, financing mechanisms, and coherent policy frameworks. Governments must transition from short-term subsidy models to long-term innovation capacity building. Future research should explore longitudinal effects of innovation policies on productivity and job creation.

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