United International Journal of Multidisciplinary Research (UIJMR) An International Peer-Reviewed and Refereed Multidisciplinary Journal
ISSN: 3048-6726 Impact Factor:6.934(SJIF)Volume-3, Special Issue-10

"Startup Ecosystem of Telangana: Driving Innovation for Viksit Bharat 2047"

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DOI:10.37854/UIJMR.2026.310.70

ABSTRACT
Telangana has emerged as one of India's most dynamic innovation hubs, with Hyderabad at its core, fostering a vibrant startup ecosystem that aligns with the vision of Viksit Bharat 2047. This paper examines how strategic policy interventions, robust digital infrastructure, and institutional support have enabled startups in Telangana to drive inclusive and sustainable growth. Flagship initiatives such as T-Hub, WE Hub, and TSIC have nurtured entrepreneurship across sectors including Artificial Intelligence, Agritech, Healthtech, and Clean Energy. The study highlights how Telangana's startup ecosystem promotes innovation-led economic development while addressing local challenges such as rural livelihoods, healthcare access, and environmental sustainability. By encouraging youth participation, women entrepreneurship, and public–private partnerships, the state has created a scalable and replicable model for other regions. Furthermore, the integration of Industry 4.0 technologies and digital platforms has enhanced competitiveness and global outreach for Telangana-based startups. The paper argues that Telangana's proactive governance and innovation ecosystem play a critical role in contributing to India's long-term growth trajectory. Strengthening this ecosystem can accelerate job creation, technological advancement, and equitable development, positioning Telangana as a key driver in achieving the vision of a developed and self-reliant India by 2047. In conclusion, Telangana's startup ecosystem exemplifies how regional innovation can contribute meaningfully to national aspirations. By sustaining policy momentum, fostering research–industry linkages, and expanding access to funding and mentorship, Telangana can further consolidate its leadership in innovation. Such efforts will not only

strengthen its economy but also significantly advance the realization of Viksit Bharat 2047.

Key words: Robust Digital Infrastructure, Flagship Initiatives, Accelerate, Exemplifies, Mentorship, Policy Momentum.

Introduction

The emergence of a strong and dynamic startup ecosystem has become an important driver of economic transformation, technological advancement, and employment generation in India. Startups are increasingly contributing to innovation by developing new products, services, business models, and technology-based solutions to emerging social and economic challenges. In this context, the vision of Viksit Bharat 2047 an aspiration for India to become a developed nation by the centenary of its independence places considerable emphasis on innovation, entrepreneurship, digital transformation, inclusive growth, and sustainable development. The development of regional startup ecosystems is therefore significant for translating this national vision into practical outcomes at the state and local levels. Among Indian states, Telangana has established itself as an important destination for startups, innovation, technology, and entrepreneurship, with Hyderabad serving as the principal hub.

Since the formation of the state in 2014, Telangana has pursued a proactive approach towards creating a supportive environment for entrepreneurs through policy initiatives, institutional mechanisms, digital infrastructure, incubation facilities, and public–private partnerships. The state's ecosystem has gradually expanded beyond conventional information technology to include emerging areas such as Artificial Intelligence (AI), fintech, agritech, healthtech, biotechnology, cleantech, cybersecurity, and other Industry 4.0 technologies.

The Telangana startup ecosystem is also important from the perspective of inclusive development. Entrepreneurship can create opportunities not only in urban centres but also in rural and semi-urban areas by addressing region-specific challenges. Startups working in agriculture, healthcare, education, financial inclusion, rural technology, and environmental sustainability have the potential

to improve access to essential services and generate livelihoods. At the same time, initiatives promoting women entrepreneurship and youth participation can broaden the social base of innovation and contribute to more equitable economic development. The rapid advancement of digital technologies has further strengthened the potential of Telangana's startups. Access to high-quality digital infrastructure, cloud computing, data analytics, artificial intelligence, Internet of Things, block chain, and other emerging technologies enables startups to develop scalable solutions and compete in national as well as global markets.

However, the expansion of the startup ecosystem also involves challenges. Access to finance, availability of skilled human resources, research and development support, market access, technological scalability, and long-term sustainability remain important considerations for emerging enterprises. Strengthening linkages between universities, research institutions, industries, investors, and government agencies can help address these challenges. Greater access to incubation, mentorship, intellectual property support, and early-stage funding can further enable innovative enterprises to move successfully from the idea stage to sustainable businesses. Against this background, the present study examines the startup ecosystem of Telangana and its contribution to the broader vision of Viksit Bharat 2047.

Objectives of the Study

1. To examine the growth and development of the startup ecosystem in Telangana**.**
2. To study the contribution of startups towards inclusive and sustainable development**,** with special emphasis on women entrepreneurship, youth participation, rural livelihoods, healthcare, agriculture, and environmental sustainability.
3. To analyse the role of government policies and institutional initiatives such as T-Hub, WE Hub, and Telangana State Innovation Cell (TSIC) in promoting entrepreneurship and innovation.
4. To assess the contribution of Telangana-based startups to economic development**,** particularly in terms of employment generation, technological advancement, investment, and entrepreneurship.

5. To examine the role of emerging technologies and digital infrastructure in enhancing the competitiveness, scalability, and global outreach of startups in Telangana.
6. To explore the potential of Telangana's startup ecosystem in contributing to the vision of Viksit Bharat 2047**,** particularly through innovation-led growth, research–industry collaboration, skill development, and sustainable entrepreneurship.

Significance of the Study

The startup ecosystem has emerged as an important component of economic development, technological innovation, employment generation, and social transformation. In this context, studying the startup ecosystem of Telangana is significant because the state has developed a strong institutional and policy framework for encouraging entrepreneurship and innovation. The present study is relevant not only for understanding the growth of startups in Telangana but also for examining their potential contribution to the broader national vision of Viksit Bharat 2047**.** First, the study is significant in understanding the role of Telangana as an emerging innovation and entrepreneurship hub**.** Hyderabad has developed a favourable environment for technology-based enterprises, supported by digital infrastructure, incubators, accelerators, educational institutions, investors, and industry networks. Second, the study highlights the importance of government policies and institutional support in promoting entrepreneurship. Initiatives such as T-Hub, WE Hub, and the Telangana State Innovation Cell have created platforms for incubation, mentorship, networking, capacity building, and market access. Third, the study is important from the perspective of employment generation and economic development**.** Fourth, the study examines the contribution of startups **to** inclusive and sustainable development**.** Startups operating in areas such as agritech, healthtech, education, financial technology, and clean energy can develop solutions to challenges faced by rural and underserved communities. Fifth, the study is significant in understanding the role of emerging technologies and digital transformation**.** Finally, the study has significance in relation to the Viksit Bharat 2047 vision**.**

Review of literature:

1. **Isenberg (2010)** emphasized the importance of developing an entrepreneurship ecosystem comprising interconnected elements such as policy, finance, culture, support institutions,

human capital, and markets. According to Isenberg, governments should focus on creating an enabling environment rather than attempting to directly create entrepreneurs. This framework is particularly relevant to Telangana, where government-led initiatives, incubation centres, funding mechanisms, and institutional platforms have been developed to facilitate entrepreneurship and innovation.

2. **Stam (2015)** developed the concept of the entrepreneurial ecosystem and highlighted the importance of institutional conditions, leadership, finance, knowledge, talent, networks, and demand in promoting productive entrepreneurship. Stam argued that entrepreneurial activity is strongly influenced by the quality of the ecosystem in which entrepreneurs operate. His work suggests that the availability of supportive institutions and effective connections among entrepreneurs, investors, universities, industries, and government agencies can strengthen regional innovation.
3. **Acs, Stam, Audretsch and O'Connor (2017)** examined entrepreneurial ecosystems from the perspective of regional economic development and argued that entrepreneurship is influenced by a combination of institutional, social, and economic conditions. Their work highlights the importance of knowledge creation, human capital, networks, finance, and supportive institutions in generating entrepreneurial outcomes.

Research Gap Identification:

The review of existing literature indicates that considerable research has been undertaken on entrepreneurial ecosystems, startup development, innovation, and regional economic development. Existing studies have established the importance of government policies, financial support, institutional infrastructure, human capital, knowledge networks, and market opportunities in creating a favorable environment for startups. However, several important research gaps remain, particularly in the context of Telangana and its contribution to the broader national development vision. Existing studies often examine startup ecosystems primarily from the perspective of economic growth, investment, technology, and employment**.** Less attention has been given to the broader social and developmental contributions of startups in Telangana.

Data Source and Methodology:

The present study is based on secondary data collected from official and institutional sources, including the Government of Telangana, Startup Telangana, T-Hub, WE Hub and other government-supported innovation institutions. The study uses descriptive analysis to examine the scale, institutional structure, funding mechanisms, inclusiveness, sectoral diversity and technological orientation of the Telangana startup ecosystem. Since the reporting periods and definitions used by different institutions may vary, the figures are presented as reported by the respective organisations and are not combined unless they refer to the same population and reporting period. The analysis therefore focuses on identifying patterns, institutional linkages and areas of contribution rather than establishing causal relationships.

Data Analysis and Interpretation:

The present study is based primarily on secondary data obtained from the Government of Telangana, Startup Telangana, T-Hub, WE Hub and other official institutional sources. The data are used to examine the development of the startup ecosystem, institutional support, women and youth participation, funding mechanisms, technological orientation, rural and social innovation, and the potential contribution of the ecosystem to the objectives of Viksit Bharat 2047.

Table 1: Current Status of the Telangana Startup Ecosystem

Sl. No.	Indicator	Reported figures	Remarks
1	Startups registered	11950	Nearest figure
2	Incubatees	5000+	
3	Women-led startups	5999	
4	Incubators	92	

The above table demonstrates the substantial scale of Telangana's startup ecosystem. The state portal reports 11900 registered startups, indicating a sizeable entrepreneurial base. More than 5,000 incubatees demonstrate the importance of incubation and mentoring facilities in supporting enterprises at different stages of development. The reported figure of 5,999 women-led startups also indicates that women entrepreneurship has become a significant component of the state's startup landscape. The existence of 92 incubators provides evidence of an institutional support structure

extending beyond a single incubation centre. Therefore, the available data support the argument that Telangana has developed a substantial entrepreneurial infrastructure involving startups, incubators and specialised support institutions.

Table 2: Government Financial and Policy Support for Startups:

Sl. No.	Initiative	Nature of support	Purpose
1	SGST reimbursement	Fiscal incentive	Reduces tax burden for eligible startups
2	Recruitment assistance	₹10,000 per eligible employee for the first year	Encourages employment generation
3	Performance grant	5% of annual turnover, subject to ₹10 lakh limit	Rewards eligible startups showing 15% YoY growth
4	T-Fund	Equity/co-investment support	Early-stage startup investment
5	T-Spark	Grants for 155 startups	Prototype, talent, R&D and marketing support
6	TSIRI	₹30 lakh corpus for 18 startups/innovators	Rural and grassroots innovation
7	Public procurement incentives	Procurement support	Provides market opportunities for rural-impact startups
8	Patent registration reimbursement	Fiscal support	Encourages intellect

The above table indicates that government intervention in Telangana's startup ecosystem operates through several channels, including tax incentives, employment support, grants, equity financing, intellectual-property support and public procurement.

Conclusion:

The present study concludes that Telangana has emerged as a significant startup and innovation hub in India, supported by proactive government policies, robust digital infrastructure, institutional mechanisms, incubation facilities, investment opportunities, and strong linkages among government, industry, academia, and entrepreneurs. Initiatives such as T-Hub, WE Hub, Telangana State Innovation Cell, T-Works and other incubation and innovation platforms have contributed to the development of entrepreneurship, technological advancement, women and youth participation, and sectoral diversification across areas such as Artificial Intelligence, agritech, healthtech, biotechnology, fintech, deep technology and clean energy. However, continued attention is required to improve access to finance, skilled human resources, research and development, market opportunities, intellectual property support and sustainable scaling of startups, particularly beyond major urban centres. Strengthening research–industry collaboration, expanding rural and inclusive entrepreneurship, encouraging women and youth-led innovation, and improving access to national and global markets can further enhance the effectiveness of the ecosystem. Overall, Telangana's experience demonstrates how a coordinated regional innovation ecosystem can contribute to entrepreneurship, employment, technological capability and inclusive growth, thereby providing an important foundation for India's long-term aspiration of achieving a developed, innovative, inclusive and self-reliant economy under the vision of Viksit Bharat 2047.

Suggestions

1. **Strengthen Access to Finance:** The Government of Telangana and financial institutions should further expand access to seed funding, venture capital, grants, credit facilities, and other financial instruments, particularly for early-stage startups, women entrepreneurs, youth entrepreneurs, and startups operating in rural and semi-urban areas.
2. **Promote Research–Industry Collaboration:** Stronger linkages should be established among universities, research institutions, industries, incubators, and startups to facilitate technology transfer, commercialization of research, patent development, product innovation, and the creation of knowledge-based enterprises.
3. **Expand Entrepreneurship Beyond Hyderabad:** Greater attention should be given to developing startup and incubation

facilities in tier-II and tier-III cities and rural areas of Telangana. Sector-specific support for agritech, rural technology, healthcare, education, renewable energy, and other local challenges can promote more geographically inclusive entrepreneurship.

4. **Enhance Skills and Emerging Technology Adoption:** Continuous training programmes should be strengthened in Artificial Intelligence, data analytics, Internet of Things, cyber security, robotics, block chain, cloud computing, and other Industry 4.0 technologies. Such programmes can improve the availability of skilled human resources and help Telangana-based startups become more competitive in national and international markets.
5. **Develop a Long-Term Viksit Bharat 2047 Startup Framework:** Telangana should establish measurable long-term targets for startup survival, employment generation, investment, exports, patents, women and youth participation, rural entrepreneurship, and sustainable innovation. Regular monitoring and evaluation of these indicators can help align the state's startup policies with the broader objectives of innovation-led, inclusive, sustainable, and self-reliant development under Viksit Bharat 2047.

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