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If you really look closely, most overnight successes took a long time.

Steve Jobs





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Creativity is thinking up new things. Innovation is doing new things.

Theodore Levitt



# **SUMMARY OF ACTIVITIES** 2024-25

# Centre for Research on Start-ups and Risk Financing

An Institute of Eminence Research Centre Indian Institute of Technology Madras





- Conduct cutting-edge research in innovation, startups, entrepreneurship, and risk capital that contributes to new insights and results in publications in leading academic journals.
- Build a comprehensive, technology-driven data platform for the Indian startup and venture ecosystem, integrating scattered data sources and using advanced analytics to deliver unified, actionable insights for researchers, policymakers, entrepreneurs, and investors.
- Bridging research, policy, and practice by leading the conversation in innovation and startups through the dissemination of insights and active engagement with policymakers, industry leaders, and entrepreneurs.
- Position CREST as a central knowledge hub that evolves into a national resource that supports evidence-based policymaking, academic research, and industry benchmarking.

### **MISSION & GOALS**

- Scholarly research encompassing the areas innovation, entrepreneurship, and risk capital: Uncover new ground leading to publications in top tier journals. Faculty members along with their collaborators will pursue bespoke research based on their interests and the thrust areas of the centre
- Develop a data repository on innovation, venturing and risk capital: To address the fundamental challenge of data non-availability in this sector and create the infrastructure to do high quality research. Creation of entrepreneurship specific language models will facilitate better understanding of the entities in the ecosystem, while facilitating use of latest research in AI, ML to generate new insights
- **Evidence synthesis:** Use of evidence to guide policy making is emerging as an important imperative. CREST would synthesize existing evidence as well as generate new evidence based on unique data sets from organizations in the start-up ecosystem such as incubators, investor networks, government missions, and so on.
- Knowledge dissemination and continuous engagement with stakeholders in the innovation and start-up ecosystem: Interface of scholarly and rigorous research with policy and practice has been very minimal. By actively engaging with various stakeholders the centre would be well positioned to impact policy and practice



# Centre for Research on Start-ups and Risk Financing

An Institute of Eminence Research Centre Indian Institute of Technology Madras

### **Summary of Activities**

2024 - 25

## **CREST Faculty Members and Advisory Board**

#### PRINCIPAL INVESTIGATOR

Thillai Rajan A. Professor, Department of Management Studies

#### **CO - PRINCIPAL INVESTIGATORS**

Krishna Prasanna P. Professor, Department of Management Studies

Amit R. K. Professor, Department of Management Studies

#### ADVISORY PRINCIPAL INVESTIGATORS

Ashok Jhunjhunwala Retired Emeritus Professor, IIT Madras

Krishnan Balasubramanian Institute Professor, Department of Mechanical Engineering

Ashwin Mahalingam Professor, Department of Civil Engineering

Thalappil Pradeep Institute Professor, Department of Chemistry

Prabhu Rajagopal Professor, Department of Mechanical Engineering

Satyanarayanan Seshadri Associate Professor, Department of Applied Mechanics

#### **ADVISORY BOARD**

Aswath Damodaran Kerschner Family Chair Professor in Finance Education, Stern School of Business New York University

Avnish Sabharwal Managing Director, Accenture Ventures

Gerard "Gerry" George Group Managing Director and Professor, International Medical University: Kuala Lumpur, Malaysia; Tamsen and Michael Brown Family Professor, McDonough School of Business Georgetown University

**Gopal Srinivasan** Founder, Chairman and Managing Director TVS Capital

Kris Gopalakrishnan, Co-founder and CEO, Infosys

Josh Lerner Jacob H. Schiff Professor of Investment Banking Harvard Business School

Sarath Naru Founder and Managing Partner, Ventureast

#### **CREST OPERATIONS**

Shanmugapriya R. Siva P. Swetha R. Uma Maheswari V.

#### **CREST RESEARCH**

Aaradith Ravichandran Akshatha Kalyanaraman Dr. Chandrakanti Behera Dr. Priyadarshini J. Dr. Ramesh Kuruva Reeba Devaraj Sarah Maricar Sathya Anbhajagane Shobana Sivaraman Sriram S. Srinivasan R. Vidur Ramasubramanian

#### **CREST TECHNOLOGY**

Chaitanya Chinni Krishna Kireeti Manikandan M. Shreenidhi H.

#### **CREST DATA**

Lokesh Y. V. Nirosha J. Preetha S. Subash A.

#### **CREST RESEARCH SCHOLARS**

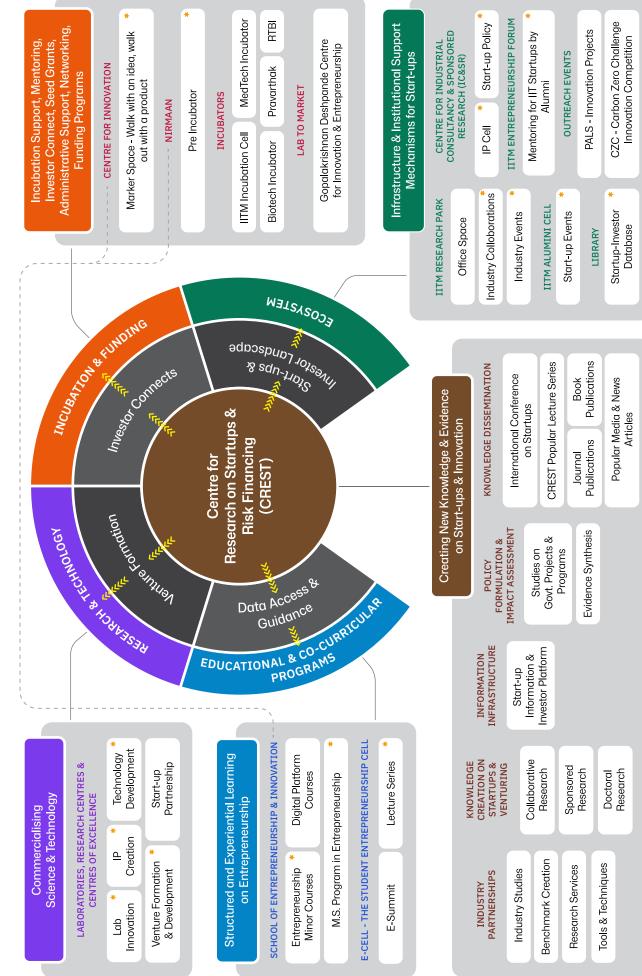
Aarthi Ramachandran Arushi Gupta Haritha V. H. Madhavan V. Nampoothiri K.S. Nandhini Nandhini Priya N. Varsha Madheshiya

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The first one gets the oyster, the second gets the shell. Andrew Carnegie



Situating CREST in the Global and IITM Startup Landscape

★ Primarily for IITM community, otherwise open for all

### **EVOLUTION OF CREST**

IIT Madras has emerged as one of the pre-eminent start-up ecosystems in the country today. In a sense, the different start-up initiatives and programs at IIT Madras are a microcosm of the start-up ecosystem that exists in India today. Broadly, the various start-up related initiatives can be classified as those that are either action oriented or related to pedagogy and programs. Setting up of incubators, nurturing and supporting start-ups, infrastructure and workspace creation to house start-ups, providing grants and funding, mentorship and so on are some examples of what can be called as action-oriented initiatives. Courses and degree programs pertaining to entrepreneurship are some of the initiatives pertaining to pedagogy.

Thus, it can be seen that among the triumvirate of research, teaching, and practice, it has been the latter two that have dominated the start-up narrative in the country. While it would be a falsification to say that there has been limited research, what is true is this: research on start-ups and related topics has not been commensurate to the status that India has achieved as the world's third largest start-up ecosystem. When IIT Madras set the foundation for CREST four years ago as a part of the Institute of Eminence initiative, it was a significant step to address this imbalance.

A major reason for the apprehension among researchers to take up research on the start-up economy has been the lack of access to credible and highquality data, that would enable them to conduct path-breaking research. At CREST, we realised that unless the "data aspect" is addressed, research in the area would be dormant. Out of this realization, an ambitious project was born: To develop such an information platform on start-ups and investors, that the world has never seen before – in terms of breadth and depth of coverage, scope of variables, intuitive user interface, and ease of access. We realized that the utility of such an information platform will extend beyond the researchers – it would benefit the entire set of stakeholders who would like to engage with the start-up ecosystem, viz, start-ups, founders, investors, corporates, government, mentors, and so on.

Participants of the Pitch Fest come together for a group photo after an engaging time of pitching and feedback



Information asymmetry has been one of the major contributors to inefficiencies in the start-up economy. The information platform developed by CREST has played an important role in bridging the gulf between the "haves" and "have nots." Today, the smallest of the small start-ups can get access to the same level of information, if not more, that was once accessible only to the top investors and research agencies. Policy formulation and studying the effectiveness of interventions have become lot more evidence based rather than anecdotal experiences.

From the very beginning, the vision of CREST has been to support not just the community of researchers at IIT Madras but also the researchers at leading centres of research globally. In the process, CREST aims to become one of the leading centres of research on start-ups and innovation globally. The four-year journey has given us the confidence to articulate how CREST augments and supports other components of the start-up ecosystem (see opening illustration that situates CREST among different elements of the start-up landscape).

From expanding our research footprint and strengthening academic collaborations, to increasing engagement with industry and policy stakeholders, CREST has made noteworthy strides. Our research output has seen both qualitative and quantitative improvement, reflected in well-received publications, policy notes, and thought-leadership contributions. We have also onboarded a diverse set of researchers and collaborators enhancing the Centre's intellectual capacity and reach. Furthermore, our interface with start-ups, incubators, and government bodies has matured into meaningful partnerships, helping translate research insights into actionable interventions. The centre has also played a pivotal role in organizing high-impact events, entrepreneurship development programs, workshops, that foster cross-sectoral dialogue and dissemination.

William Wordsworth, said his heart was filled with pleasure, when while wandering lonely as a cloud, he all at once saw a host of golden daffodils fluttering and dancing in the breeze. Very much like those golden daffodils, the Indian economic landscape is today dotted with sprightly start-ups. From less than 5000 a decade ago, the number of start-ups by 2025 have been close to 200,000. India's second tryst with destiny to become as one of the world's developed countries would be powered by these innovative start-ups.

This report summarizes the journey of CREST in its fourth year. The credibility of CREST has grown steeply in the last year, with several government agencies, top universities, and investment agencies strongly endorsing the contribution of the centre. The platform has crossed more than 1 million viewers and continues to grow by the day, with visitors coming across different corners of the globe. However, more than the exciting past, we are humbled by the opportunities of the future. It is with optimism that we beckon Year 5.

# 01 Research and Industry Projects

## **1.1 Completed Projects**

#### PHD THESIS

#### Comparative Analysis of Sustainability-Driven Value Creation in Mature Public Firms And Early-Stage Climate Tech Startups

#### Madhavan V Nampoothiri

The thesis investigated two important dimensions of sustainable business practices and their implications for firm value and entrepreneurial priorities. It compared the effects of macro-level regulatory interventions in the European Union (EU) with the micro-level dynamics of climate technology entrepreneurship in India. Together, these two studies offered a comparative view of how institutional frameworks and entrepreneurial agency shape sustainable business outcomes.

# Part 1: Mandatory Disclosure and Firm Value in the EU

This study analysed the impact of the EU's 2017 CSR disclosure mandate on firm valuation using a differencein-differences approach. While no significant effect was found at the aggregate level—likely due to offsetting benefits and costs or superficial reporting—sector-level differences emerge, with some industries experiencing valuation shifts. The findings underscore the need for industry-specific disclosure policies and contribute to theory, methodology, and regulatory practice.

#### Part 2: Climate Tech Start-ups in India

This study explored how the motivations of climate tech entrepreneurs in India has evolved over time. Based on case studies of 15 start-ups, it finds that while early efforts have been driven by environmental goals, financial priorities take over as ventures scale—shaped by funding demands, market dynamics, and shifting government support. The research adds to hybrid entrepreneurship literature by showing how external factors influence the changing identity and purpose of dual-mission start-ups.

#### Contribution

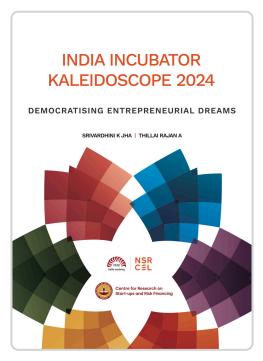
The thesis has highlighted how sustainability mandates and entrepreneurial intent interact across institutional settings, revealing the challenges of aligning financial and environmental goals.

It offers actionable insights for policymakers and entrepreneurs to design adaptive, context-specific policies and support systems. Future research can examine disclosure quality, gender dynamics, and the long-term impact of regulations on firms and start-ups.

#### **COLLABORATIVE INDUSTRY & RESEARCH PROJECT**

#### India Incubator Kaleidoscope Report

A joint study with IIM Bangalore



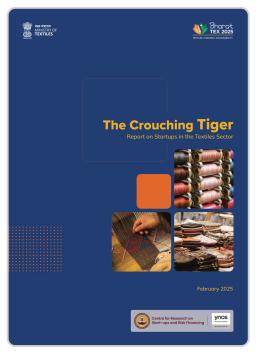
A notable trend in the recent decadal growth of start-ups, compared to the previous one, has been the significant contribution of incubators. The incubator network in India has expanded rapidly, playing a crucial role in catalyzing and nurturing the startup development process. To examine this impact, CREST at IIT Madras in collaboration with NSRCEL at IIM Bangalore, conducted an in-depth analysis of the Indian incubator ecosystem. The findings were published in a comprehensive report titled India Incubator Kaleidoscope, which was launched during the SummitUp 2024 at the Indian Institute of Management Bangalore.

India Incubator Kaleidoscope has been structured around three major chapters. The first chapter explores the macro-level incubator landscape, highlighting the growth of incubators over time, their geographical distribution across various regions of the country, their presence in less developed and remote areas, their diversity, and overall activity levels. The second chapter delves deeper into incubator activity, examining the extent of start-up coverage, founder demographics, and the sectoral and geographical focus of incubation efforts. The third chapter assesses the impact of incubation by comparing the performance of incubated start-ups with those that did not undergo incubation. It also outlined the second-order impact of incubators, measured through revenues earned, assets created, and employment generated by the start-ups they supported.

#### **COLLABORATIVE INDUSTRY & RESEARCH PROJECT**

# The Crouching Tiger: The Start-up Landscape in the Textiles Sector

A report prepared for the Ministry of Textiles, Government of India and launched at Bharat Tex 2025, the global textiles summit



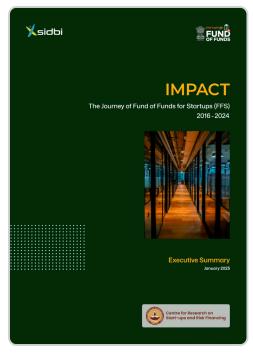
The report provides an in-depth analysis of the evolving role of start-ups in India's textile industry and offers a structured exploration of the start-up ecosystem in the textile sector through four key chapters:

- The Indian Textiles Sector Provides an overview of the industry's strengths, challenges, enablers, and performance trends.
- Lessons from Indian Start-ups Analyses success factors in India's start-up ecosystem beyond just valuations.
- **Start-ups in the Textile Sector** Examines the role of start-ups, their enablers, challenges, and impact in the industry.
- **Case Studies** Showcases notable textile start-ups that have made significant breakthroughs in the sector.

#### **COLLABORATIVE INDUSTRY & RESEARCH PROJECT**

# IMPACT: The Journey of Fund of Funds for Start-ups (FFS) 2016 – 2024

A report prepared for the Small Industries Development Bank of India (SIDBI)



National Start-up Day was celebrated on January 16, 2025, to honour the spirit of entrepreneurship and innovation that fuels India's growing start-up ecosystem. A key milestone in India's start-up journey has been the setting up of the Fund of Funds Scheme (FFS) by DPIIT in 2016. The FFS has been managed by SIDBI and has played a pivotal role in enabling access to capital by channelling investments through SEBI-registered Alternative Investment Funds (AIFs). Institutions and innovation hubs across the country, including IITs and incubators, actively participated in the celebrations, reinforcing the collaborative effort required to build a robust and inclusive startup ecosystem.

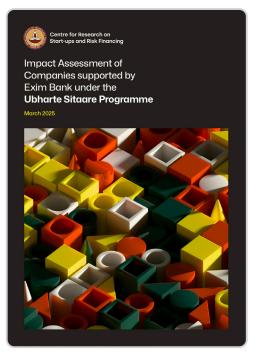
Centre for Research on Startups and Risk Financing, IIT Madras

As part of the FFS initiative, CREST had the opportunity to publish the report on "IMPACT - The Journey of Fund of Funds for Startups (FFS) 2016 – 2024" in partnership with SIDBI and Startup India Fund of Funds. The publication provides a summary of the journey of FFS along with an overview and impact achieved by its start-up portfolio. Through the launch of the report, CREST reaffirms its continued commitment to supporting innovation and the startup ecosystem in India.

#### **COLLABORATIVE INDUSTRY & RESEARCH PROJECT**

# Impact Assessment of Companies supported under the Ubharte Sitaare Programme

Study supported by Exim Bank



The Ubharte Sitaare Programme (USP) of Exim Bank identifies Indian companies that are future champions with good export potential. CREST, in collaboration with EXIM Bank, conducted a comprehensive study which analyses the impact of Exim Bank's Ubharte Sitaare Programme (USP) on the sustainability performance of seven emerging Indian enterprises, that have been supported under the USP. The assessment focused on how targeted financial assistance helped these enterprises pursue opportunities in areas related to sustainability as a part of their business strategy.

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Innovation is the ability to see change as an opportunity, not a threat Steve Jobs

## **1.2 On-going Projects**

#### PHD RESEARCH

#### Can Health-tech Start-ups Augment Public Sector in Realizing Health Equity? An exploratory study of Indian Start-ups

#### Aarthi Ramachandran

Health equity refers to the absence of unfair, avoidable, or remediable differences in health outcomes among population groups defined by socioeconomic status, geography, gender, ethnicity, disability, or other dimensions of inequality. These differences become inequities when they are systemic, patterned, unjust, and actionable. In the context of diabetes care, health equity is a pressing concern in India, where disparities in access, affordability, and cultural appropriateness persist. Despite the rapid growth of health-tech startups and increasing recognition by policymakers of startups as drivers of inclusive innovation, existing literature tends to focus on technological efficacy or business scalability, often neglecting how start-ups operationalize equity within India's fragmented healthcare ecosystem. There remains limited empirical research examining how equity commitments translate into practice.

This study addresses the gap by investigating the role of Indian healthcare start-ups as institutional entrepreneurs addressing structural gaps in diabetes care through innovative, equity-driven approaches. Adopting a grounded theory approach, the research interrogates five dimensions: start-up motivations, structural inequities, equity operationalization, implementation barriers, and user-centric outcomes. It explores how founders' personal experiences intersect with institutional voids, how start-ups balance financial sustainability with equity objectives, and how they enhance patient dignity and self-management beyond traditional clinical metrics. Start-ups were identified using the YNOS database, which listed 195 diabetes care start-ups in India. Guided by theoretical sampling principles, selection criteria were developed to identify cases representing diverse strategies for generating health impact. Findings aim to inform policymakers, investors, and entrepreneurs on optimizing health equity outcomes.

#### PHD RESEARCH

# Patents and Start-up Performance: Evidence from India

#### Arushi Gupta

Entrepreneurship and start-ups drive technological innovation and economic growth, attracting talent, capital, and ideas to cities. Intellectual property rights, particularly patents, play a key role in helping start-ups secure funding, generate sales, and navigate competition. In India, patent filings by start-ups grew by 353 percent between 2015 and 2019, with motives ranging from competitive advantage to indicating value to investors. This study examines how patent publications influence the financial and valuation performance of start-ups, based on a dataset of 3,480 Indian start-ups and three interrelated research questions.

This study explores: (1) the factors influencing patent-seeking behaviour among Indian start-ups across different industry sectors and founding team characteristics; (2) whether start-ups with patents demonstrate superior financial performance-measured by revenue and EBITDA—compared to their peers that do not have published patents; and (3) how patent ownership affects funding success, valuation multiples, and broader market perception. Our analysis reveals that incubated start-ups and founding teams with high education scores are significantly more likely to patent, with patent likelihood rising sharply beyond an education score threshold of 605. Using Bayesian modelling, we find that while founder age positively influences revenue and start-ups in smaller cities tend to earn less, patent ownership has no statistically significant effect on financial performance. Notably, while incubation is linked to more patenting, it is also associated with lower revenue, pointing to a complex relationship between innovation and business performance in Indian startups.

#### PHD RESEARCH

# Decoding Start-up Valuation: The Interplay of Founder, Firm, Investor, and Industry

#### Haritha V. H.

Start-up valuation is more than just a number. It defines ownership, drives funding negotiations, and shapes expectations. Yet, how do we truly value a start-up with limited history, unclear financials, and intangible assets? For years, scholars have debated whether success depends more on the jockey (the founder) or the horse (firm performance). This research adds two oftenoverlooked players to the race: the trainer (investor) and the meadows (industry). Through the Jockey-Horse-Trainer-Meadows framework, this work explores data from Indian start-ups to answer three questions: (1) Does firm performance outweigh founder traits in laterstage valuations? (2) How does VC overconfidence affect valuations, and can investor syndication moderate this? (3) Does industry attractiveness significantly impact valuation, and what happens when financial health enters the picture? Empirical results show that firm performance becomes the dominant factor in driving valuations over time. VC overconfidence tends to inflate valuations, but syndication can buffer this effect. While attractive industries boost valuation, their influence diminishes when financial strength is accounted for. This work highlights the interplay between tangible performance, behavioural factors, and contextual conditions, offering actionable insights for founders, investors, and policymakers seeking to understand and optimise start-up valuation.

#### PHD RESEARCH

#### Circular Economy Adoption in Indian Manufacturing Start-ups: Examining Entrepreneurial Orientation and Challenges

#### Nandhini Priya N.

The concept of circularity has emerged as a key solution to the unsustainable "take-make-dispose" business model that resulted in environmental degradation and resource depletion. Although global initiatives such as the UN's 2030 Agenda and Sustainable Development Goals (SDGs) promote circular economy (CE) principles, the global economy remains only 8.6 per cent circular. Circular start-ups (CSUs)-new, independent ventures based on Circular Business Models (CBMs)-have become crucial players in advancing CE, particularly in contrast to larger incumbent firms that struggle with structural constraints. CSUs can integrate CE strategies from inception, yet they face significant challenges in maintaining performance while implementing sustainable practices. A major barrier has been the complexity of CE-related challenges, which often impact business operations, resource efficiency, and market positioning. At the same time, Entrepreneurial Orientation (EO) plays a key role in helping start-ups adapt to and overcome these obstacles.

However, existing research tends to examine EO and CE challenges in isolation, leading to an incomplete understanding of their combined impact. This study focuses on India's manufacturing sector and addresses this gap by investigating how EO and CE challenges interact to influence CSU performance. Using a multi-method, multi-study approach, the research develops a decision model that enables CSU founders to identify optimal EO configurations and prioritize strategies to mitigate CE barriers. By demonstrating how an integrated approach to EO and CE challenges enhances performance, the study would contribute both theoretically and practically to advancing the role of CSUs in the transition to a circular economy.

#### PHD RESEARCH

#### Understanding the Determinants of Innovation: Evidence from Corporate Financial Strategies

#### Varsha Madheshiya

This study investigates how corporate financial strategies influence firm-level investment in Research Development and (R&D), particularly within emerging economies. Specifically, it addresses the following research questions: (i) What is the impact of internal cash flow on R&D investment in emerging economies? (ii) How do innovation efficiency and financial constraints moderate the relationship between internal cash flow and R&D investment? (iii) What role does corporate financialization play in shaping firmlevel R&D investment? and (iv) To what extent does financial risk influence the effect of financialization on innovation spending? Drawing on firm-level data from CMIE Prowess, Eikon Refinitive, and Orbit Express, the study employs Generalized Method of Moments and Ordinary Least Squares regression techniques to analyze these relationships. The findings reveal that financially constrained firms tend to rely more on internal funds to sustain innovation activities and that the sensitivity of R&D investment to cash flow is greater in firms exhibiting higher innovation efficiency and facing financial constraints. The study highlights the strategic importance of aligning financial resource management with innovation objectives and provides insights for firms aiming to enhance their R&D capabilities under conditions of financial pressure.

#### M.S. RESEARCH

#### Founder Demographics and Ecosystem Factors for Success of Student Start-ups from Higher Education Institutions

#### Nandhini K S

This study focuses on understanding the valuation of early-stage deep-tech start-ups created out of Intellectual Property and Technology from higher education institutions. A sample of 30 companies was analysed based on their fundraising and valuation at each stage. Factors that impact early valuation were identified to provide a baseline for deep tech start-ups. There are no clear benchmarks and guidelines at present, and often, founders are low-balling themselves, eventually leading to higher dilution during later fundraising stages. Through this study, we create objective guidelines for the valuation of early-stage companies and also the ability to compare different ventures

#### **COLLABORATIVE INDUSTRY & RESEARCH PROJECT**

#### The Start-up Ecosystem in Tamil Nadu: Opportunities & Challenges - Study for the Tamil Nadu State Planning Commission

The Tamil Nadu State Planning Commission has commissioned CREST to undertake a comprehensive study to analyse the opportunities and challenges within the state's start-up ecosystem. The study aims to achieve multiple objectives. These include analysing the growth and potential opportunities for start-ups, identifying gaps in existing government initiatives, addressing challenges related to sustainability and scalability, promoting social inclusion, exploring the role of public procurement in driving economic growth, and ultimately contributing to Tamil Nadu's goal of becoming a trillion-dollar economy. Additionally, the study seeks to map best practices both within and outside the state to develop appropriate policy interventions.

The research employs a mixed-methods approach, leveraging primary and secondary data sources to provide comprehensive insights. An extensive analysis of secondary data sources such as policy documents has been conducted to explore policies related to the Tamil Nadu start-up ecosystem and available opportunities. Data on the start-up ecosystem was also obtained from diverse sources, including the IIT Madras-YNOS Platform, StartupTN, academic journals, research reports, publications, and government documents. To gather nuanced insights, the study has conducted a survey with about 420 face-to-face structured interviews with start-ups, focusing on understanding the challenges they face, the opportunities they identify, and the effectiveness of existing policies.

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The best way to predict the future is to create it. Alan Kay

# 02 The Start-up Information Platform: Evolution and Updates

### 2.1 Information Platform Coverage

"Where data ends, assumptions begin – and that's where risk lives." This quote captures the very essence of the challenge we observed within the start-up ecosystem. In an environment driven by innovation, agility, and constant change, the absence of reliable data becomes a significant barrier. Founders, investors, policymakers, and ecosystem enablers had to rely on intuition, anecdotal evidence, or fragmented information to make critical decisions. This not only introduces unnecessary risk but also slows down progress and leads to missed opportunities.

The objective of CREST in developing the information platform on start-ups and investors has been to address the long felt need of researchers, practitioners and policy makers. The platform has integrated scattered data on the start-up ecosystem and has served as a single point source for comprehensive information on the Indian start-up ecosystem. The platform has enabled easy access to data for all stakeholders who wanted to be engaged with the start-up ecosystem and serves as the foundation for more informed decision-making. Whether it's a founder evaluating market dynamics, an investor assessing a start-up's potential, or a policymaker designing support frameworks, access to consistent and comprehensive data becomes the first step toward action. By addressing this foundational need, we hope to replace assumptions with insights and convert uncertainty into opportunity. Through this effort, we seek to empower every stakeholder in the startup ecosystem to take that crucial first step—backed by facts, not guesswork.

Centre for Research on Startups and Risk Financing has partnered with an IIT Madras incubated startup YNOS Venture Engine to develop this information platform. YNOS has been founded with the objective of transforming and creating efficiencies in the start-up and innovation ecosystem in India. The platform leverages technology, advanced data sciences techniques and marker analytics to provide customized insights and recommendations to start-up founders, venture investors, and prospective as well as existing entrepreneurs. The offerings of YNOS are based on the insights obtained from a decade of research on the Indian venture and start-up industry. The mission of YNOS has been to enhance the success of start-ups and early-stage ventures.

# Complete Suite of Products on Different Components of the Start-up Ecosystem:

• Start-ups

Simplifies the process of scanning and screening the early-stage start-up landscape. Exhaustive filters on start-up background, founder background, funding, financial performance, and so on help to quickly identify the list of start-ups that meet the given criteria.

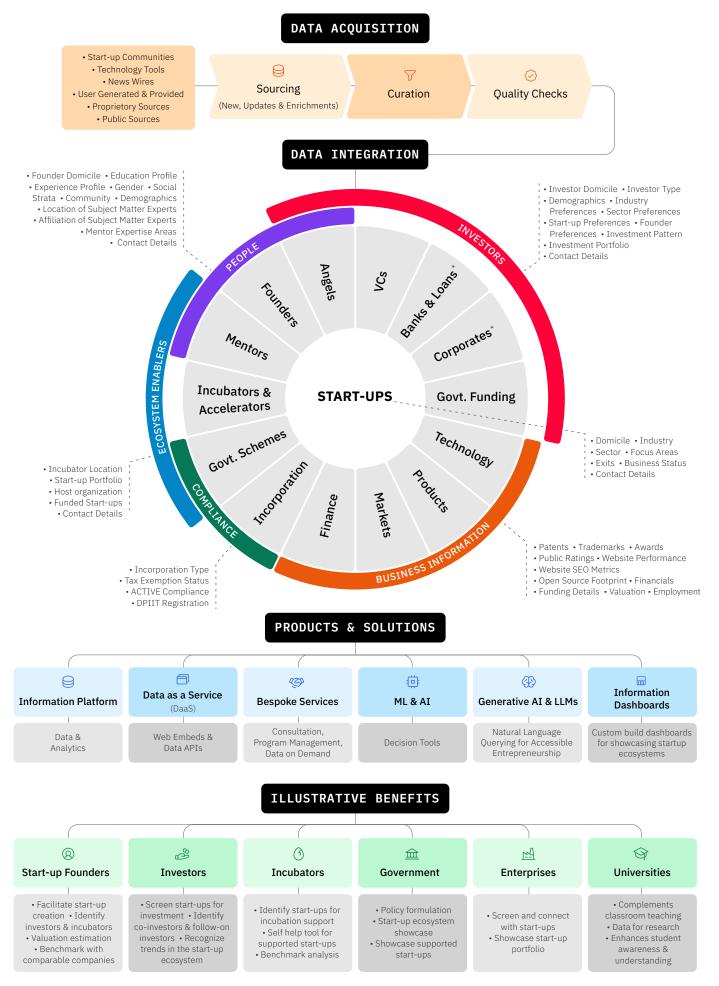
• Investors

The investors suite of products not only help start-up founders to identify appropriate investors for their start-up but also assists them in writing persuasively to the investors using appropriate AI tools. This is also the first time that information on the entire gamut of start-up investors can be accessed in a single location. The suite of products consists of separate products for different investor segments, which helps the founders to analyse the investment patterns and identify suitable investors in each segment:

- i. Angels
- ii. VCs
- iii.Government Funding
- iv. Debt Funding from banks and financial institutions
- Incubators

Helps the start-up founders understand the incubator landscape and helps them choose the right incubator for their entrepreneurial journey. Information about more than 1,300 incubators are available in the platform making it easy for the start-ups as well as policy makers to compare different incubators

### Schematic Representation of the Start-up Information Platform



#### • Information Dashboards

The platform also features versatile and powerful dashboards that provides a visual representation of the start-up landscape based on the powerful underlying data repository. Several customized dashboards have been developed based on the requirement of different stakeholders.

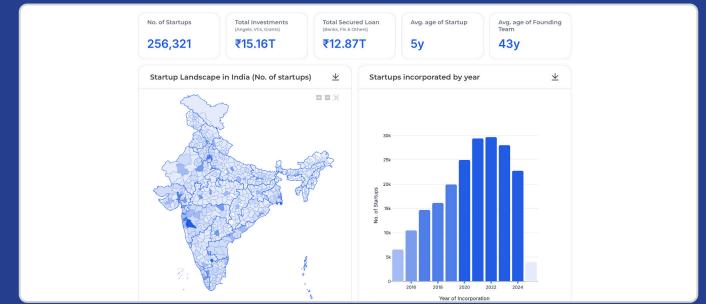
- Insight: A solution that helps to understand the startup ecosystem in India in a clear and organized way. Insight provides structured, up-to-date information on the Indian startup ecosystem through its advanced algorithms and easy-to-use interface. It covers startups, investment activity, sector-wise developments, and market trends. The platform serves as a reference point for understanding patterns and changes in early-stage ventures. The platform features three dashboards, which focus on startups, angel investors, venture capitalists, and government funding schemes delivering data-driven insights and visual representations to help users grasp the landscape quickly. Below is an overview of Insight's key features:
  - \* Comprehensive view of the Indian early-stage startup landscape through three dashboards on Startups, Angels, VCs, and Govt. Funding schemes with intuitive data visualizations
- \* Ability to use filters to slice and dice the startup and investor landscape in more than 100 million ways that has never been made possible before

- VIBGYOR: This is a dashboard for Textile Startups developed in collaboration with the Ministry of Textiles, Government of India. The dashboard serves as a centralized information hub, enabling deeper insights into:
- \* Start-up activity within textiles and related sectors
- \* Investment and funding trends for start-ups in textiles sector across venture capital, angel networks, and government schemes

The platform offers a rich visual representation of key insights into the textile start-up ecosystem. Users can explore a comparative view of all textile sub-sectors, track start-ups by funding stage, and also the investors in the start-ups. Additionally, the platform presents data on aggregate start-up revenues, highlights the top 15 textile sub-sectors, and provides start-up incorporation trends, enabling a comprehensive overview of start-up landscape in the textiles sector.

• ONE-INNOVATION: The Dashboard of Startups & Higher Education Institutions developed in collaboration with the Ministry of Education, Government of India. A comprehensive, singlepoint information resource focused on the startup ecosystem within Higher Education Institutes (HEIs) in India. This platform not only compiles detailed data on startups associated with HEIs but also enables comparative analysis across institutions. It includes insights into startups founded by faculty members, students, and alumni, offering a holistic view of entrepreneurial activity emerging from academic environments.





#### A Snapshot of the VIBGYOR dashboard for textile start-ups related information

VIBGYOR						(	y∩os
A single point informa Built by <b>YNOS Ventur</b> e	The Dashboard ( tion resource on startups and a Engine with support from IIT extiles, Government of India.	investors in the <b>Te</b>	extile sector.			ir the second seco	Interver of TexTILES
Summary information fo	r All Textile Startups				łt	🖡 Filter: All T	extile Startups
Startups 5,387 +7.98% last 12 months	Startups Funded Startups Total Funding					<sup>rotal Loan</sup> ₹133.2	22B
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Startup Landscape i			Startups	by Year			
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				Unicorns 81	IPOs 41	Startup <b>1</b> <b>9,018</b>	
Startup Landscape	in India		Startups	Incorporated			

#### • Conversational Tool – StartupGPT

While the information platform helps users get access to organized data in a structured fashion, StartupGPT helps the users get the information they want from the platform using natural language queries, without the need to get familiar with the data and navigation structure of the platform. Built using the latest LLM technologies, it is to hope that StartupGPT would help to increase the access to information among different stakeholders.

• District Level Mapping of Start-ups

The district is the fundamental administrative unit in India. In fact, The Indian government aims to have at least one registered start-up in every district by 2025. The Department for Promotion of Industry and Internal Trade (DPIIT) has set this ambitious goal, with the aim of fostering a thriving start-up ecosystem across the country. Despite this emphasis on creating start-ups in every district, information about the number of start-ups in different districts has not been readily available. The start-up information platform developed by CREST, has for the first time created the district wise mapping of start-ups across the country. This has enabled to:

- Better understand the growth, nature, and funding patterns of start-ups at the district level.
- Aid policymakers in identifying high-potential districts for targeted start-up promotion.
- Recognize regions that require additional support, infrastructure, or ecosystem development.

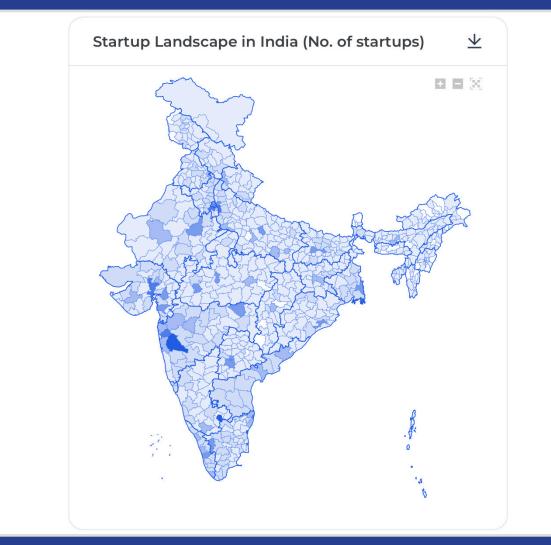
#### A snapshot of the conversation in StartupGPT

cc	How many Startups are in Chennai?	đ
ynos	There are a total of 7838 startups located in Chennai as per the current	data
	available.	đ
cc	Tell me about some of them that recently got funded	_
VIDS	Based on the current information available, some of the Chennai startup	5 s
	that have recently received funding include KoalaBeds, Trike, Nava Visio Rooter, Heuro, Euler Motors, Blackspores, Appoet, GoBumpr, and Anara. These startups span across various sectors such as healthcare, technolo travel, and automotive, showcasing the diversity and innovation within th Chennai startup ecosystem.	n, ogy, ne
_		đ
СС	Tell me about Rooter	ð
Inos	Rooter is a prominent sports community platform in India, engaging its audience through a live sports engagement app, including features like li match prediction games, chat forums, and a social feed. It focuses on a range of sports content, significantly focusing on cricket, football, and eSports. Rooter leverages the passion of sports fans by offering a unique platform for interaction and engagement, making sports viewing more interactive. It has successfully attracted attention from users and investe alike, underscoring its growing significance in the sports tech and fan engagement sector within the Indian startup ecosystem.	wide e
СС	Who founded Rooter?	Ð
<b>y</b> 1000	Rooter was founded by Piyush Kumar and Dipesh Agarwal. It is a platfor that focuses on connecting sports fans and engaging them through live audio and video content, among other features.	
cc	When was it founded?	Ð
ynos	Rooter was founded on 20-May-2016 by Piyush Kumar, Akshat Goel, an Sinha Soham.	d D
СС	Tell me more details about Rooter	đ
~~~	Rooter, founded on 20-May-2016 in Delhi, India, is a sports-tech startup offering a platform connecting sports fans through interactive features quizzes, chats, and post-match interactions. Having secured funding of 3462.5 Million from 34 investors, it attained Minicorn status by May-20. The company focuses on video content for gamers, digital entertainmen game streaming, and fostering communities in the sports, gaming, and sports domains. It had a revenue of INR 324.83 Million in FY 2023.	like INR 20. nt, e-
СС	Who are the investors in Rooter?	đ
		Ð
ynos	Rooter has secured investments from several prominent investors, inclu the likes of Paytm, IeAD Sports, Adidas Family-backed Fund, Anthill Ventures, Venture Catalysts, and others passionate about the intersect sports, gaming, and technology. These investors have supported Roote its mission to enhance the sports fan engagement experience through i innovative platform.	ion of r in
	+ Ask your query	
	rtupGPT (beta v0.5.1) t with ♥ for the Indian Startup Ecosystem YNOS   III Madras	p with

A snapshot of the Startups product is presented, where startups can be filtered based on various attributes such as type, year of incorporation, state, and the newly integrated district-level startup details

👌 Startups			All Start	ups Bookmark	s (6) Add	your Startup 💿	
Q Eg. Online	classes, Grocery, Athe	er Energy, Agriculture					
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Startup State	~	Startup District New 🔨	Startup University	ta 🗸 Start	up Category Be	ta) 🗸 🗸	
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TrashBotics is a		leveloper of artificial intelligence					

A district level start-up landscape India map from Insight



# 2.2 Users and Partners of the Platform

#### **Government Agencies**



# 03 Programs and Events

### 3.1 Start-up and Entrepreneurship Development Programs

#### 1. Summit Up 2024

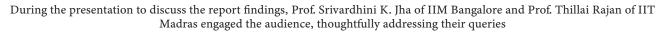
The SummitUp 2024 event, organized by IIMB Innovations at IIM Bangalore on October 4–5, 2024, brought together key stakeholders from the government, industry, and the entrepreneurial ecosystem to spotlight critical issues in entrepreneurship. The two-day event provided a platform for meaningful dialogues, knowledge sharing, and collaboration, offering a holistic and global perspective for founders and innovators. Shri Amitabh Kant, G20 Sherpa, Government of India and former CEO, NITI Aayog, delivered a compelling session on "Shaping the Future – India's Start-up Ecosystem and Its Evolving Role in the Global Landscape." A notable trend in the recent decadal growth of startups, compared to the previous one, has been the significant contribution of incubators. The incubator network in India has expanded rapidly, playing a crucial role in catalyzing and nurturing the startup development process. To examine this impact, CREST in collaboration with NSRCEL at IIM Bangalore, conducted an in-depth analysis of the Indian incubator ecosystem. The findings were published in a comprehensive report titled India Incubator Kaleidoscope, which was launched during the SummitUp 2024.

Launch of the Report "India Incubator Kaleidoscope"

From left: Prof. Rishikesha T Krishnan, Director, IIMB; Prof. Thillai Rajan, IIT Madras; Shri. Amitabh Kant, India's G20 Sherpa; Prof. Srivardhini K. Jha, IIM Bangalore; Anand Sri Ganesh, CEO, NSRCEL



#### Centre for Research on Startups and Risk Financing, IIT Madras

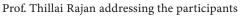




#### 2. Workshop on Product Market Fit

One day workshop on Product Market Fit titled "Navigating the Art of Product Thinking: The Secret to building Great Products", ideal for Startup Founders, Product Managers, Innovation Leaders, and Investors was held on October 25, 2024

The workshop equipped participants with essential skills in Product Thinking, with a strong focus on achieving Product-Market Fit. Through interactive sessions and real-world case studies, attendees gained insights into aligning product offerings with market needs, identifying and targeting the right customer segments, and avoiding common pitfalls such as misallocated resources and unclear value propositions. The workshop emphasized how a focused, strategic approach could accelerate product success, enhance efficiency, and drive meaningful customer impact in competitive markets.





Glimpses of Participants during the session



Dr. Vaibhav Chawla Leading the Session on Strategic Value Discovery



#### Centre for Research on Startups and Risk Financing, IIT Madras

Prof. Richa Agrawal's Interactive Session on Design Thinking



#### 3. Start-up and Innovation Track at Bharat Tex 2025

Bharat Tex, 2025 was a global textile event organized by the twelve Indian Textile Export Promotion Councils (EPCs) and supported by the Ministry of Textiles, Government of India. The mega event took place at Bharat Mandapam, New Delhi from 14th to 17th February 2025. The event aimed to draw top policy makers, business CEO's, textile thought leaders, international networks, designers, and master craftspeople.

To highlight the role of start-ups and provide the thrust the start-up ecosystem needs, a dedicated "Start-up and Innovation" track was envisaged at Bharat Tex 2025. CREST at IIT Madras was the knowledge partner for the track, along with the IITM incubated Start-Up, YNOS Venture Engine.

The Start-up & Innovation Track at Bharat Tex 2025 highlighted the transformative role of start-ups in the textile industry. As a key knowledge partner, CREST conceptualised and led four major initiatives to foster innovation, collaboration, and investment in the sector.

A snapshot of Prof. Thillai Rajan serving as the Event Presenter (Sutradhar) during the session



**SUTRADHAR - Textile Startup Pitch fest:** As part of Bharat Tex 2025, the Textile Start-up Pitch Fest was organized on 15th February 2025 at Bharat Mandapam. The pitch fest provided an exclusive opportunity for start-ups to showcase their innovative solutions and receive real-time investor interest. The pitch fest received 71 applications from textile start-ups across India. The event was widely publicized in collaboration with Startup India, NIFT, and various start-up networks, ensuring strong participation from top innovators in the textile and fashion technology sectors. Following a rigorous evaluation process, 12 start-ups made an in-person pitch presentation at Bharat Tex 2025. The jury panel that shortlisted the start-ups for presentation included eminent experts from the start-up ecosystem.



A short video of the highlights of the Sutradhar can be viewed here

#### Capturing the Moment: Participants in the Product Market Fit Workshop



The presenter from a start-up responding to questions during the Pitch Fest.



A start-up founder explains the production process while showcasing a physical fabric sample to the attendees



Prof. Thillai Rajan is presenting a memento to one of the entrepreneurs who participated in the Pitch Fest



Panel Discussion: Innovating for Tomorrow: Catalyzing Success Through Textile Start-Ups: The Panel Discussion at Bharat Tex 2025 served as a platform to explore the evolving role of startups in revolutionizing the textile industry. Start-ups have not only been addressing industry challenges such as resource efficiency, waste reduction, and circular economy integration but are also setting new benchmarks through innovations like bio-engineered fabrics, smart textiles, eco-friendly dyeing techniques, and closed-loop production systems. India, with its rich textile heritage and robust entrepreneurial ecosystem, is uniquely positioned to become a global hub for textile innovation. Recognizing this, the discussion brought together industry experts, investors, policymakers, and successful entrepreneurs to share insights on the impact start-ups have created and the potential they hold for the future. The discussion reinforced the need to leverage the unique skills and strengths of start-ups to create a lasting impact in the global textile industry.

Key Dignitaries – Panel Discussion: The session was chaired by Shri Rohit Kansal, Additional Secretary, Ministry of Textiles, Government of India, and moderated by Prof. Thillai Rajan A., Professor, Department of Management Studies, IIT Madras. The panel featured Dr. Ashwini Kumar Agrawal, Professor at IIT Delhi; Akshya Shree, Founder of Silpakarman; and Durga Charan Das, Founder of STITCHMES, who together brought diverse perspectives on the role of startups in transforming the textile industry.

A glimpse of Prof. Thillai Rajan moderating the conversation during the panel session



VIBGYOR - The Dashboard of Textile Startups: As part of the Sustainability Pavilion at Bharat Tex 2025, VIBGYOR was launched—the first-of-its-kind dedicated sectoral dashboard to map and understand the textile startup ecosystem. This initiative provides a comprehensive and structured view of the startup

landscape within the textile industry, offering insights into emerging trends, funding patterns, and entrepreneurial activity. The dashboard can be accessed at: www.ynos.in/vibgyor



THE CROUCHING TIGER: Report on Startups in the Textiles Sector: As part of the Startup Innovation Track at Bharat Tex 2025, the "The Crouching Tiger" Report on Startups in the Textiles Sector was officially launched by Additional Secretary Rohit Kansal, Prof. Ashwini from IIT Delhi, and Prof. Thillai Rajan from IIT Madras. This report provides an in-depth analysis of the evolving role of start-ups in India's textile industry. The Crouching Tiger report offers a structured exploration of the start-up ecosystem in the textile sector.

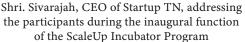
#### 4. Scale-Up Incubator Program for Startup TN

CREST organized a two-day Scale-Up Incubator Program for Start-up TN on March 04 and 05, 2025. This workshop brought together CEOs, incubator leaders, and senior personnel from over 100 incubators across Tamil Nadu, providing them with an interactive opportunity to scale up their incubator operations. The workshop also served as the first phase of the Scale-Up Program. Following the workshop, incubators were required to present their growth strategies to a selection committee, which would shortlist around 30 incubators for the second phase of the program—comprising scale-up grants for emerging incubators and a growth acceleration program for established ones.

Through a carefully curated agenda, the program facilitated knowledge exchange, fostered peer networking, and introduced best practices in incubation management. The workshop featured well-established speakers from diverse organizations, including industry leaders, policymakers, seasoned incubator managers, and domain experts, who brought a wealth of expertise and insights to the discussions. These speakers shared their experiences, best practices, and strategic perspectives on incubation, start-up scaling, and ecosystem development, equipping participants with actionable strategies to enhance their incubation capabilities.

A total of 10 speaker sessions were conducted, featuring industry leaders and experts who provided valuable insights on scaling incubators, fostering corporate collaborations, and ensuring financial sustainability. The sessions were designed to strengthen incubators by offering knowledge on key aspects such as government engagement, corporate partnerships, financial management, intellectual property, and incubation sustainability, equipping participants with the strategies needed for long-term success. The event also included a field visit to the IITM Incubation Cell, which offered participants a first-hand experience of how a leading incubation ecosystem operates.

Unveiling of the Report: The Crouching Tiger. From Left: Prof. Thillai Rajan, IIT Madras; Additional Secretary Shri. Rohit Kansal, Prof. Ashwini Kumar Agrawal, IIT Delhi and Goutham Jain, Project Manager, Bharat Tex 2025





of the ScaleUp Incubator Program



#### Centre for Research on Startups and Risk Financing, IIT Madras

A participant receiving certificate during the valedictory session



Ms. Shanmugapriya, Chief Operating Officer, CREST, IIT Madras felicitating the chief guest Mr. Raghuvir Srinivasan, Chief Editor, The Hindu Business Line



A participant reflecting on her workshop experience during the valedictory session



Scale-up Incubator participants come together for a memorable group photo



### **3.2 Popular Lecture Series**

One of the objectives of CREST has been to create interfaces that facilitates interaction between academia, policy and practice. The popular lecture series is a platform that enables scholars and researchers to present their significant research findings in plain language to benefit policy makers and practitioners. While open to all, we actively invite policymakers and practitioners to join and engage with the latest insights. The popular lecture series is held online so that participants from multiple locations and time zones can join these sessions. During the year, we hosted the following insightful online lectures as part of its Popular Lecture Series:

1. Prof. Sreevas Sahasranamam, Professor at the University of Glasgow, UK, spoke on "Entrepreneurship Trends Within India: Practical **Implications** Future and Possibilities" Research on September 12, 2024



This session discussed entrepreneurship trends and attitudes within India, largely drawing on the Global Entrepreneurship Monitor global report 2023-24. Global Entrepreneurship Monitor (GEM) has been collecting primary data about entrepreneurship for 25 years, making it by far the world's largest and longestrunning research study on levels of entrepreneurial activity. Drawing on these trends, the talk discussed the implications for entrepreneurs and policymakers. Also, for academic researchers, the session highlighted future research possibilities for entrepreneurship in and from India. 2. Prof. Ludvig Levasseur, Assistant Professor of Entrepreneurship at IIM Bangalore, delivered a talk on "Does Digital Transformation Help in Startup Funding" on July 11, 2024



Digital is transforming several industries and disrupting value chains. Digital is sometimes seen as enabling the spread of value chain activities across locations but, at other times, as reinforcing traditional colocation advantages across activities. While prior research has focused often on incumbent adaptation to such technological change, this study looked at startups, instead, and how they have been affected based on their position in the value chain as well as co-location with other startups along the chain. The authors have developed a theory of digital multiplicity composed of digital variety upstream and digital scale downstream to explain asymmetric benefits to colocation wherein downstream startups tend to benefit more from collocated upstream ones. They analyzed the location and outcomes of startups from the US Media and Entertainment industry amid digital diffusion and find broad support for various theories. the paper has implications for the literature on digital transformation, innovation ecosystems, as well as strategic entrepreneurship.

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You can't use up creativity. The more you use, the more you have.

Maya Angelou

# **3.3 Public Displays**

#### 1. Startup Mahakumbh 2024

Startup Mahakumbh 2024 was held from March 18–20, 2024, at Bharat Mandapam in New Delhi. The three-day event marked a transformative milestone in the startup ecosystem, fostering meaningful collaborations both globally and within India.

CREST participated by setting up a dedicated stall at the event, in collaboration with its knowledge partner, YNOS Venture Engine—an IIT Madras-incubated startup. The stall served as a platform to showcase CREST's initiatives, research outputs, and data-driven products focused on entrepreneurship and innovation.

Live demonstrations of the YNOS platform drew interest from entrepreneurs, investors, and policymakers, highlighting the power of deep-tech solutions in streamlining startup discovery, benchmarking, and decision-making. The presence at Startup Mahakumbh enabled CREST to engage directly with ecosystem stakeholders, gather valuable feedback, and explore new avenues for collaboration and outreach

Glimpse of the Stall at the Startup Mahakumbh 2024



#### 2. IIT Madras Open House 2025

IIT Madras hosted its Open House event from January 3–5, 2024, showcasing the institution's cutting-edge research and initiatives. CREST had a stall at the Open House, which attracted significant attention from visitors keen to explore its offerings and engage with the CREST team.

Stall Highlights from the Open House at IIT



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What is now proved was once only imagined.

William Blake

# 04 Collaborations and Partnerships

### 4.1 Memorandum of Understanding

During the year three MoUs were signed that underlined the emphasis of CREST to forge partnerships with organizations having complementary strengths. The goal of such partnerships has been to increase our understanding of the Indian start-up landscape.

• A Memorandum of Understanding (MoU) was signed with the Startup Policy Forum (SPF), an industry alliance comprising India's leading highgrowth startups. This partnership aims to drive databacked research, innovation, and policy advocacy focused on strengthening India's startup landscape. Together, CREST and SPF will work towards enabling progressive regulatory and policy frameworks through collaborative research and meaningful knowledge exchange



#### Startup Policy Forum

• The Ministry of Agriculture and Farmers' Welfare has launched a pilot project, VISTAAR (Virtually Integrated System to Access Agricultural Resources), aimed at enhancing the efficiency and effectiveness of the agricultural extension system through digitalization. As part of this initiative, the Centre for Research on Start-ups and Risk Financing (CREST) at IIT Madras has signed an MoU with Ministry of Agriculture to contribute to the VISTAAR platform by integrating information on startups in the agriculture and allied sectors. This collaboration will enable farmers and stakeholders to discover and access innovative solutions and services offered by startups, thereby strengthening linkages between the startup ecosystem and the agricultural community.



• LEAD at Krea University, an action-oriented research centre of the IFMR Society, has entered into a Memorandum of Understanding (MoU) with the Centre for Research on Start-Ups and Risk Financing (CREST) at IIT Madras to jointly develop a Startup Index. The objective of this index is to offer policyrelevant insights into the startup ecosystem, aiding policymakers in the design of more effective and informed policies.



Key Moment: MoU Signing with the Ministry of Agriculture and Farmers' Welfare



Snapshot of the MoU signing with the Startup Policy Forum (SPF)



# 4.2 Collaborative Inbound and Outbound Visits

- Shweta Rajpal Kohli, President & CEO of Startup Policy Forum (SPF), visited CREST on February 26, 2024 for establishing a partnership with IIT Madras. Her visit underscores our shared commitment to shaping startup policies that are not merely reactive but proactive and forward-looking, aligned with the evolving needs of India's dynamic entrepreneurial ecosystem. The interaction marks a step toward building meaningful collaborations that bridge research, policy, and practice for greater impact.
- On November 18, 2024, Sudatta Mandal, Deputy Managing Director, and Arijit Datta, General Manager, SIDBI visited CREST to explore avenues for strategic collaboration and deepen institutional engagement. The discussions focused on strengthening partnerships that support innovation and entrepreneurship, with particular emphasis on the sustainability measures adopted by the Centre. The visit marked an important step toward aligning efforts to promote long-term impact and resilience in the startup ecosystem
- On September 16, 2024, Mr. Dilip Kumar, CEO of SIDBI Venture Capital Ltd., visited CREST to gain a deeper understanding of the Centre's ongoing activities and strategic direction. During the visit, detailed discussions were held on the various initiatives led by CREST. The interaction aimed to identify potential areas of collaboration that align with SIDBI VC's mission of supporting early-stage enterprises and promoting entrepreneurship in India.
- Prof. Krishna Prasanna visited the University of Technology, Sydney and Deakin University, Australia, as part of the efforts to establish and strengthen collaborative research initiatives with international institutions. She initiated collaborative research proposals with Prof. Hong Feng (John) Zhang and Prof. Harminder Singh from the Faculty of Business and Law, Deakin Business School.
- Haritha and Varsha, Ph.D. research scholars from the CREST research team are engaged in collaborative research with distinguished faculty members from leading Australian institutions. Haritha is involved in joint research with Prof. Vinay Patel and Dr. Scott Walker of University of Technology, Sydney. Varsha collaborates with Dr. Leo Liu and Prof. Vinay Patel from University of Technology, Sydney.

This collaboration focuses on advancing research in areas at the intersection of finance, entrepreneurship, and risk, contributing to CREST's global research initiatives.

- Prof. Saras D. Sarasvathy, Paul M. Hammaker Professor of Business Administration at the University of Virginia, visited the Centre on July 24, 2024. During her visit, she interacted with scholars from the Department of Management Studies, IIT Madras, where they had the opportunity to present their ongoing research and receive valuable insights and suggestions from her. We also had the privilege of showcasing a demo of our platform to Prof. Sarasvathy and were grateful to receive her thoughtful feedback, which will be immensely helpful as we continue to refine and enhance our work.
- Prof. Thillai Rajan visited Rock Centre of Entrepreneurship at the Harvard Business School in June 2024, for discussions on collaborative research with Prof. Josh Lerner, Jacob H. Schiff Professor of Investment Banking at Harvard Business School. Prof. Lerner is also a member of the CREST advisory board. Among other activities, Prof. Thillai Rajan shared the CREST Activity Reports with faculty members at HBS and provided an overview of the Centre's key initiatives and research directions during the visit. The discussions centered around CREST's ongoing activities and explored potential collaborations, with a focus on long-term exchange of ideas, data, and joint research initiatives with HBS.

Moment captured during the Information Platform demo session with Prof. Saras D. Sarasvathy



#### Centre for Research on Startups and Risk Financing, IIT Madras

Mr. Dilip Kumar, CEO, SIDBI VC, with Prof. Thillai Rajan during his visit to CREST



Photograph Featuring Prof. Thillai Rajan and Prof. Josh Lerner at Harvard Business School



Glimpse of Prof. Saras D. Sarasvathy engaging with research scholars of the department, sharing her valuable insights during a scholar's presentation



Snapshot of Prof. Saras D. Sarasvathy, Paul M. Hammaker Professor of Business Administration, University of Virginia, with the CREST Team



# 05 Impact and Outcomes

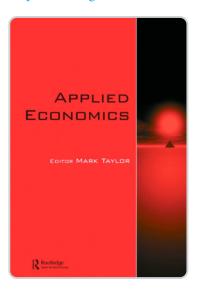
## **5.1 Journal Publications**

#### **IIT MADRAS FACULTY AND SCHOLARS**

How do firms navigate the tightrope of R&D investments, cash flow sensitivity, and financial constraints? Evidence from China and India. Applied Economics, 1–15.



Varsha, M., & Prasanna, K. (2025) https://doi.org/10.1080/00036846.2025.2453763



#### Abstract

In recent years, India and China have emerged as powerhouses of innovation in Asia, with significant research and development (R&D) investments. This study examines the sensitivity of R&D investments to a firm's internal cash flow using firm-level panel data for two emerging economies, India and China, for the period 2011–2023. The research further explores how innovation efficiency influences this relationship in the face of financial constraints. Developing dynamic R&D models separately for these economies based on the Euler equation, our analysis reveals that while cash flow has a positive influence on R&D investments in both countries, the sensitivity is higher in India compared to China, indicative of binding financing constraints. Both countries exhibit a strategy of maintaining cash reserves to buffer R&D investments, aligning with the precautionary motive of holding cash. Indian firms predominantly rely on debt financing, whereas Chinese firms favour new stock issues as external financing sources. Notably, the sensitivity of R&D to cash flow becomes more pronounced when firms exhibit both higher innovation efficiency and financial constraints in both nations. These dynamics guide firms to strategize and optimize their R&D investments.

#### **IIT MADRAS FACULTY AND SCHOLARS**

Effect of mandatory sustainability performance disclosures on firm value: Evidence from listed European firms. Corporate Social Responsibility and Environmental Management, 31(6), 5220-5235.



*M.V.* Nampoothiri, O. Entrop, and A. Thillai Rajan (2024).

#### https://doi.org/10.1002/csr.2860



#### Abstract

Corporate Sustainability Performance (CSP) reporting is becoming increasingly important to investors who seek to identify and invest in companies that are managing their Environmental, Social and Governance (ESG) risks effectively. The European Union's Non-Financial Reporting Directive (NFRD), which was implemented in 2017, mandates that certain large companies must disclose their sustainability performance. This study examines the impact of the EU NFRD on the firm value of listed European firms using a difference-in-differences regression model. We find that the mandatory disclosure of corporate sustainability performance does not significantly affect firm value at an aggregate level.

However, the results suggest minor inter-industry differences, which can be attributed to varying sustainability performance metrics across industries. These findings contribute not only to the nascent literature on mandatory sustainability disclosures but also to the deliberations of policymakers and regulators across the world who are devising and implementing mandatory corporate sustainability performance disclosure regulations. of enabling new ventures. Informational roadblocks in understanding the state of business incubation can lead to convenient assumptions that all is well with the policy and practice of business incubation. This article reviews the evolution of policy, practice, and literature on Business Incubation in India and finds a vacuum with respect to systematic studies and understanding of business incubation as a process. The paper concludes by advocating for an evidence-based approach to policy formulation and emphasizes the need for rigorous evaluation and research to ascertain the true impact of Bis on India's entrepreneurial ecosystem.

#### EXTERNAL RESEARCHERS USING CREST-YNOS DATA

Tall Tales or Success Stories? A Scrutiny of the Business Incubation Policy and Landscape in India, Journal of Public Affairs.



Sonali Gupta and D. L. Sunder (2025).

https://doi.org/10.1002/pa.70014



#### Abstract

Business incubators (BIs) have been in existence since the 1950s, and they claim to assist early-stage entrepreneurs to convert ideas into sustainable enterprises by providing resources like space, mentoring, business services, networks, and capital. Governments across the world promote BI as a policy tool, but a deep dive into the literature shows limited empirical evidence about their effectiveness. With increasing investment of public funds into incubators, it is necessary to assess their performance and success in meeting the objective

## **5.2 Conference Presentations**

- Haritha, V. H., & Prasanna, K. (2025, April). Funding the future: What venture capital investors look for in startups in India and the UK? British Accounting & Finance Association (BAFA) 2025 Annual Meeting, Belfast, UK.
- Haritha, V. H., & Prasanna, K. (2025, Feb). Winning the startup race: How founders, finances, and markets shape funding and valuation. Doctoral Colloquium on Financial Markets & Corporate Finance (DCFMCF), IIT (ISM) Dhanbad, India - Won Best Paper Award
- Haritha, V. H., & Prasanna, K. (2025, January). What drives venture capital investments? Cracking the startup code in India. 11th Management Doctoral Colloquium (MDC), Vinod Gupta School of Management, IIT Kharagpur, India.
- Varsha M. and Prasanna K., (2025, January). Strategic Shifts: How Financialization Shapes R&D Spending in Non-financial Firms in India, Research Symposium 2025. Department of Management Studies, Indian Institute of Technology, Madras. - Won Best Paper Award

- Varsha M. and Prasanna K., (2024, December). The Innovation Equation: Does Financialization Impact R&D Investments in India? International Conference on Business Analytics and Management Sciences (BAMS-2024). Shailesh J. Mehta School of Management at Indian Institute of Technology, Bombay
- Aarthi Ramachandran, Thillai Rajan A., (2024, June). Emerging Technologies in Diabetic Care - An Opportunity for Startups, The Health Tech Asia 2024, Jakarta, Indonesia
- Haritha, V. H., Patel, V., Walker, S., & Prasanna, K. (2024, June). Venture capital valuation and industry dynamics. 31st Global Finance Conference, Italy.
- Nandhini Priya N., Thillai Rajan A. (2024, April). Circular Economy Adoption: Exploring the Differential Uptake of Circular Practices between Indian Start-ups and Incumbents. 6th International Conference on Financial Markets and Corporate Finance (ICFMCF 2024), IIT Dhanbad
- Varsha M. and Prasanna K. (2024, January). Corporate Innovations in India: Funding Strategies. 9th PAN IIM World Management Conference at the Indian Institute of Management, Sambalpur

### 66

You only have to do a few things right in your life so long as you don't do too many things wrong.

### Warren Buffett

# **5.3 Lectures and Key Note Presentations by CREST Faculty**

- Prof. Thillai Rajan was invited as the Chief Guest at the Research Day Celebrations '25 hosted by the Ethiraj Centre for Research, Innovation & Creativity, Ethiraj College for Women, Chennai, on March 10, 2025, where he addressed the participants and shared his insights on research and innovation.
- Prof. Thillai Rajan served as the Event Presenter (Sutradhar) for "The Pitchfest for Textile Startups" held as part of Bharat Tex 2025, organized by the Ministry of Textiles, Government of India, at Bharat Mandapam, New Delhi, on February 15, 2025.
- Prof. Thillai Rajan served as the Moderator for the panel discussion titled "Innovating for Tomorrow: Catalysing Success through Textile Startups" at Bharat Tex 2025, organized by the Ministry of Textiles, Government of India, held at Bharat Mandapam, New Delhi, on February 15, 2025.
- Prof. Thillai Rajan participated as a Speaker in a panel discussion on "Transforming Tomorrow: Enhancing Industry-Academia-Government Synergies" at ICON 25 – An Academia-Industry Connect Event, organized by Stella Maris College on February 4, 2025.

Prof. Thillai Rajan participating at ICON 25, An Academia Industry Connect Event, at Stella Maris College



- Prof. Thillai Rajan delivered the keynote address on "The Spectrum of Entrepreneurship: Diverse Journeys in Education" at the Entrepreneurship Educators Conclave, organized by the Centre for Entrepreneurship, Ramaiah University of Applied Sciences, Bengaluru, on January 31, 2025.
- Prof. Thillai Rajan gave an address at the Launch of India Incubator Kaleidoscope 2024 during SummitUp at IIM Bangalore on October 4, 2024.
- Prof. Thillai Rajan was a panellist in the discussion on "Engineering Entrepreneurs: From Job Seekers to Job Creators" at the 4th Engineering Excellence Conclave, organized by Business World, New Delhi, on August 28, 2024.
- Speaker, Panel discussion on "Impact of Structure and Patents on Start-ups," Organized by Inventus Law Technology Partners, Madras Boat Club, Chennai, April 18, 2024

Snapshot of Prof. Thillai Rajan addressing participants at the Research Day Celebrations 2025 at Ethiraj College for Women



# 66

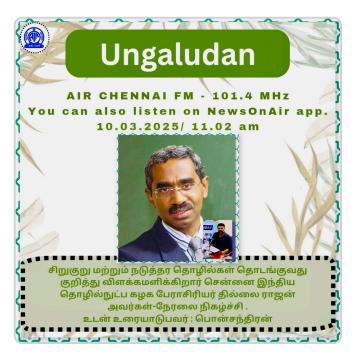
It always seems impossible until it is done.

### Nelson Mandela

# **5.4 Media Programs**

1. உங்களுடன் (With you), All India Radio, Chennai FM – 101.4 MHz, A live program on starting Small and Medium Enterprises, சிறு குறு மற்றும் நடுத்தர தொழில் தொடங்குவது குறித்து விளக்கமளிக்கும் நேரலை நிகழ்ச்சி, உடன் உரையாடியது: பொன். சந்திரன்

March 10, 2025, 11:02 am - 12:00 Noon



2. செய்திக்கதம்பம், (News Bulletin), All India Radio, January 02, 2025.

https://www.youtube.com/watch?v=iDvXOfYxvyA





Video recording of the News Bulletin All India Radio show

### 66

The reason I've been able to be so financially successful is my focus has never, ever for one minute been money.

Oprah Winfrey

### **5.5 Popular News Publications and Quoted Press Coverage**

#### The Hindu Business Line, June 17, 2024

### Doctors, architects, drop-outs... unicorn founders are a diverse mix

At 67%, engineers dominate the elite start-up club with over \$1-billion valuation

#### Sindhu Hariharan Chennai

Can you guess the background of India's unicorn founders' club? Over a half — 67 per cent — have engineering backgrounds. But two years ago, almost 85 per cent of the founders of start ups with \$1billion-plus valuation were engineers. As the number of unicorns has grown — it's 114 now compared to 100 in 2022 — the background of the founders/co-founders has also become a bit more diverse.

#### DATA FOCUS.

Of the 206 co-founders/ founders of unicorns, there are now more promoters with a business/economics degree or niche backgrounds like architecture, hotel management, and fashion technology. Of the 33 per cent of non-engineers, graduates in business, commerce, and economics make up the next biggest pool at 9 per cent, according to an analysis of the start-up database of YNOS Venture Engine, an organisation incubated by IIT-Madras. Women make up only around 7.2 per cent of this pool. India has more than 3 lakh registered start-ups.

#### THE CLUB OPENS UP

Founders with under-graduate degrees in architecture, law, philosophy and fashion technology also find a place in India's unicorns as do college drop-outs. Zepto founders Aadit Palicha and Kaivalya Vohra dropped out of Stanford, and Bhavin Pandya, an engineering graduate from Purdue University, chose to quit his fully-funded PhD proquit his fully-funded PhD programme in Economics at NYU to start and run Games 24\*7.

Lead School's Smita Deorah, Souvik Sengupta of Infra Market, and Shiprocket's Gautam Kapoor are among the 23 founders who have an under-graduate degree in



India's unicorn story getting more diverse

Architecture English Philosophy Law 24 Others' 'Includes those whose UG programme was not publicly available Source: Analysis of unicorn/decacorn foun in YNOS Venture Engine Database

#### The US has more diversity in unicorn founders

57% Engineers 36% Business and Economic Drop-outs

Source: A study of 1110+ unicorn founders by Stanford professor Ilya Strebulae

business/commerce or economics. Many of them went on to do an MBA. Sengupta and Deorah are also Chartered Accountants.

Shagufta Anurag, cofounder of interior design start-up Livspace, comes from an architecture background. Roman Saini of Unacademy is a former doctor and has also cleared the Civil Services exam. Pharmeasy's Dhaval Shah has a degree in medicine. Interestingly, serial entreprencur Kunal Shah, known for his philosophical take on the business world, holds an under-graduate degree in philosophy from Wilson College, Mumbai.

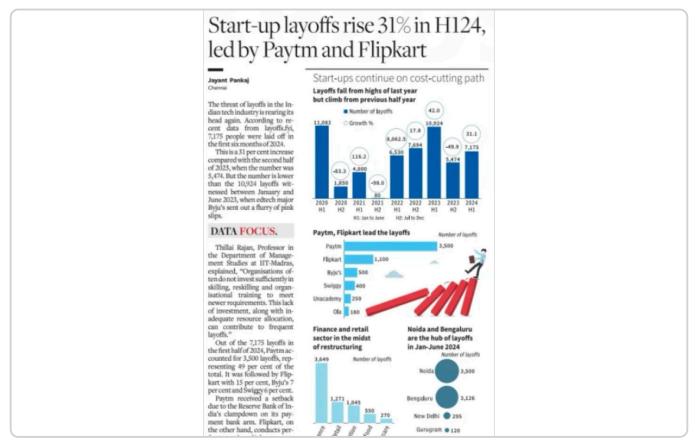
#### MORE DIVERSE

"Today, there is more diversity among start-up founders compared to 10 years back. D2C is seeing greater diversity of educa-tional backgrounds and gender; deep tech too is seeing serious tech talent taking charge," says Rajesh Sawhney, founder, GSF Accelerator. However, engineers have an inherent advantage to iterate faster and also rank high in confidence and risk-taking abilities compared to nontech people, he added.

Thillai Rajan, a professor in the Department of Management Studies at IIT-Madras and founder of YNOS, said that more entrepreneurs are realising the importance of diverse skill sets in founding teams.

With inputs from Shreyas Arora, an intern with businessline

#### The Hindu Business Line, July 11, 2024



respectively. In all, out of 90-odd incubators, 71 in Tier I, 7% in Tier II and the rest 15% in

ntree, the report insentioned. The report also noted that Gujarat has a lower cubation ratio compared to the national average of "c., "Gujarat" has lower includation rate than the tional average. We might attribute this to the pos-bility that the knowledge of starting a busi-cubation may compare that the need for cubation may and the starting and th

sibility that the knowledge of starting a busi-needs is so pervaive that the need for incubation may be low," the re-port mentioned: DHANDHO Satya Ranjan Acharya, director of the EDH-assed incubator Craft

runded," he said. urekle, eo-founder of TechXchange, said technology like he Internet of Things using from Gujarat's startup mix. te are good at adopting technology there's undest shift in the corporate sector. With startal support. I believe Gujarat can fos-s of its own," he said.

**TOP 10 MOST FUNDED STARTUP** 

HUBS (2014 TO H1 2024)

3,549 70

1.912

lity

(With inputs from Parag Dave)

#### Times of India, October 28, 2024

A Recent Report By IIT-M And IIM-B Stated That Most Incubators In Gujarat Are Based In Academic Institutes, And Traction Is Relatively Lower In Smaller Cities. TOI Looks At The Startup Ecosystem And Scope For Further Growth

UP CHALLEN GE: IN **PPORT, INCUBATION REA** 



of the 32% ersel





ujurat's entrepreneurial landscape is boom-ing, with over 11,00 startups recognised try and internal Trade (DPITT) as of Oct-top the startup hubs, The growth is primarily driven by sectors such as IT services (28%), food and bever-ges (27%) and andreichture (16%), generating more than 1.10 lab, bobs annually. However, the state lags association of the anticipation of the startup and institutional irrestors, as indicated by figures related to deals and incostments in India. A recent report, "India Incobator Kaleidoscope del". Isdiplayloud that among Trei clinks, Almediatad had the third highest concentration of scademis-ficient of the startup and interstering was significantly lower in Guragram (11%). Bengalaru (27%), and Mumbia and Pune (4%), where was significantly lower in Guragram, the incubators were predomi-nantly accdemia based, with shares of 10%, and 88%, respectively. In al. out of 50 od incubators, 7%, were nts out that startups in arat, especially in Tier II 5 III cities, often seek ubation in Tier I cities. This ald be due to lack of local incubat

Chennal

Noida

Delhi

Bengaluru 27

Kolkata

cubator e appeal of more established

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44

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Ideation

48%

LENGES & SOLUTIONS

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**COUNTRY'S STARTUP LANDSCAPE** STRY DISTRIBUTION OF STARTUPS 82 14 4 STAGES OF GUIARAT 77 24 11% -22%

11% 10% 22% od and Be thcare a 00 19% 11% IT 13% 919 13% Pro



#### **KALEIDOSCOPE REPORT 2024**

ber of startups, I average of 8.2% verage incubatio

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global Top 25. We r rat. Or dge, but there is a gap

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#### Slow but firm start for experienced entrepreneurs

Or Manan Bateriwala, founder of Ahunedabad-based Keepsake Automation, starting a 'dhand-o' was not fhiat difficuit — but start-ng up was? Now incubated with radie. Une firm specialises in ther-al spraying and industrial high-recision conting. It took a couple of ears from inception to get incu-ated.

rme, the lourney st experience imy tochnology." It was not a typi ap, but a mainstre mity that I expl

al skills, a

Another example of a i tional startup is Healt ds by Dr Dimple Ganatt in from Ahmedabad. Dr the initiative incub SEC in 2022 at the age of ras associated with the I College for over two dos taking voluntary retrier turing out. Surely, it was ut I always dreamt

petting orders too, including . At a younger

of startuos We have come a long way from explaining what a startup is to

The average age of t during a recent incu about 30 years, indicating th maturing. Gejarat has robus funding to accelerate, but w



#### TDG NETWORK, New Delhi

### India's incubator crisis: 10% support 98% startups: IIM, IIT report

TDG NETWORK

On October 4, 2024, the Indian Institute of Management (IIM) Bangalore and the Indian Institute of Technology (IIT) Madras jointly released a significant report titled "India Incubator Kaleidoscope 2024. This report, produced by NSRCEL (IIM Bangalore's startup incubator) and IIT Madras's Centre for Research on Startups and Risk Financing (CREST), provides a comprehensive analysis of India's startup incubation ecosystem, em-phasizing the pivotal role incubators play in fostering entrepreneurship and economic growth.



incubators, at 82%, while of India. Moreover, it points out that Tier I cities, which Bengaluru and Gurugram

boast higher proportions of industry-focused incubators, at 71% and 84%, respectively. The overall den sity of incubators in India is 0.8 per million people, which starkly contrasts with countries like the U.S., U.K., and China, where the

density ranges between

8 and 10 incubators per million. This indicates a significant opportunity for growth and development in the Indian startup incubation landscape

#### IMPACT ON

A critical aspect of the report focuses on the per formance of incubated startups compared to their non-incubated counter-parts. The data reveals that startups benefiting from incubators achieve their first round of funding more quickly, with 27.1% receiv-ing funding within a year compared to only 15.4% for incubated startups Additionally, incubated

startups tend to secure more awards and are more active in generating intellectual property, boasting five times more patents hive times more patents than non-incubated ones. Professor Srivardhini Jha from IIM Bangalore emphasized that while incubators significantly incubators significantly enhance the accessibility of entrepreneurship, their impacts and activities are often underappreciated. The report aims to bridge this knowledge gap, stres ing the necessity to elevate both the quantity and quality of incubation efforts na-

RECOMMENDATIONS FOR STAKEHOLDERS

The report provides valu-able recommendations for policymakers, educators, and industry leaders aimed at bolstering the incubation framework within India. It underscores the need for more collaboration among various stakeholders, including academic institutions, industries, and gov-ernment entities. Amitabh Kant, the G2O Sherpa for the Government of India, pointed out the expanding roles of incubators beyond merely facilitating startup formation; they now en compass fostering innova-tion, attracting capital, and monitoring startup beneficiaries for governmental schemes.

#### The Hindu, November 10, 2024

**KEY FINDINGS AND** 

The report highlights a

INSIGHTS

# Tirunelveli emerges as thriving start-up hub

#### Sangeetha Kandavel CHENNAI

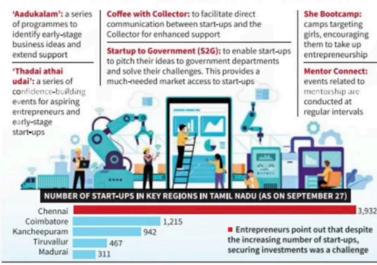
Tirunelveli, which has often been in the spotlight for caste issues, is now garnering attention for its burgeoning entrepreneurial ecosystem.

Over the past few years, more women from this region are breaking barriers and venturing into the start-up ecosystem. Data shared by the Tamil Nadu Startup and Innovation Mission (StartupTN) show that as on September 27, 2024, there were 405 startups in the Tirunelveli regional hub. Districts, including Tirunelveli, Tenka-Thoothukudi, si. Kanniyakumari and Ramanathapuram, constitute this hub.

A set of data collated by Thillai Rajan, professor of Management Studies at IIT-Madras through his YNOS Venture Engine, an information and analytics platform, showed that there were 207 start-ups in Tirunelveli. " There are 88 startups with women as cofounders. About 43% of the start-ups have been founded or co-founded by wo-

### Slew of efforts

Initiatives launched by StartupTN to strengthen the start-up ecosystem in Tirunelveli district



#### men," he noted.

Entrepreneurs in Tirunelveli say four key factors had contributed to the thriving start-up ecosystem. The first was the impact of the Zoho Corporation, which ushered in a wave of tech-driven ventures. Many start-ups in Tirunelveli are founded by individuals who had worked

with Zoho. The second factor was the inherent entrepreneurial spirit of the people from this region. "Some of the popular retail brands in T. Nagar, Chennai, today were started by people from this region. Many people in the Silicon Valley are also from this region," entrepreneurs here said.

Thirdly, the rising num-

ber of big companies in and around this belt, such as Tata Power and Bosch, contributed to the trend. This has boosted the confidence of entrepreneurs to set up operations in the region. And the fourth factor was the support from StartupTN, which has provided crucial resources, mentorship, and networking opportunities to local startups.

Sivarajah Ramanathan, CEO of StartupTN, said efforts had been made by the government to identify early stage start-ups and guide them. "We now have an exclusive office for this region, and a project lead has been stationed here." Mr. Ramanathan said.

Start-ups from this region have also managed to get substantial funding. According to StartupTN, "Nine start-ups have been facilitated with funding in the region. Five are TAN-SEED beneficiaries, and two are Tamil Nadu SC/ST Startup Fund beneficiaries. One start-up received angel funding, whereas one got seed funding ... '

Entrepreneurs here, however, said that despite the rising number of start-ups, securing investments was a challenge. One entrepreneur said early-stage founders in tier 3 cities struggle to secure micro-investments from venture capitalists.

They suggested that the government invest in research and development in colleges in the region.

#### DT Next, January 03, 2025

### IIT M-agri ministry project to empower farmers

CHENNAI: In a move to bolster the agricultural sector, IIT Madras has collaborated with the Union Ministry of Agriculture and Farmers Welfare on Project Vistaar, which aims to enhance the efficiency and effectiveness of the agricultural extension system through digitalisation that will benefit farmers across the country.

The pilot project, dubbed Vistaar (Virtually Integrated System to Access Agricultural Resources), seeks to fortify the existing agricultural extension system by providing farmers with timely, contextual, and accurate information and advisories.

The digitalised platform will serve as a one-stop-shop for farmers, offering expert guidance on crop production, marketing, value and supply chain management, as well as information on government schemes related to agriculture and allied sectors.

A key feature of Vistaar is the integration of a start-up information platform, developed by IIT M's Centre for Research on Start-ups. The platform also boasts a comprehensive database of over 12,000 start-ups operating in

the agriculture and farming sectors. By leveraging this platform, farmers will

gain access to innovative technologies and solutions offered by these start-ups, enabling



Members helming the digitisation of agri extension programme

them to enhance their productivity and competitiveness.

Professor Thillai Rajan A, head of the Centre for Research on Start-ups at IIT Madras, said, "Start-ups have the potential to drive innovation across the agricultural value chain, and we believe that this partnership will help unlock that potential," he said. Samuel Praveen Kumar, Joint Secretary (Extension) at the Ministry of Agriculture and Farmers Welfare, echoed professor Rajan's sentiments.

"The collaboration will enable us to connect farmers with innovative technologies and solutions offered by start-ups. This, in turn, will enhance the effectiveness of our extension services and contribute to the growth and development of India's agricultural sector," he noted.

#### PROJECT VISTAAR

It will provide timely, contextual, and accurate information and advisories to farmers

Farmers can get expert guidance on crop production, marketing, value and supply chain management

It will allow farmers to gain access to innovative technologies and solutions offered by start-ups in the agri sector

#### DT Next, January 03, 2025

### தகவல் தொழில்நுட்பம் மூலம் விவசாய உற்பத்தி மேம்பாடு மத்தீய வேளாண் அமைச்சகத்துடன் சென்னை ஐஐடி ஒப்பந்தம்

#### ைகைன்னை

தகவல் தொழில்நுட்ப வசதி மூலம் விவசாய உற்பத்தியை மேம்படுத்தும் புதிய திட்டத்தை செயல்படுத்துவது தொடர்பாக மத்திய வேளாண் அமைச்சகத் துடன் சென்னை ஐஐடி புரிந் து ணர்வு ஒப்பந்தம் செய் துள்ளது. இதுதொடர்பாக சென்னை ஐஐடி நேற்று வெளி யிட்ட செய்திக்குறிப்பு:

தகவல் தொழில்நுட்ப வசதி கள் மூலம் வேளாண் உற்பத்தி, வேளாண் விரிவாக்க முறை களை மேம்படுத்தும் நோக்கில் 'விஸ்டார்' என்ற புதிய திட்டத்தை மத்திய அரசு சோதனை அடிப் படையில் செயல்படுத்த உள் ளது. இந்த திட்டத்தை சிறப்பாக நடைமுறைப்படுத்துவது தொடர் பாக மத்திய வேளாண் மற்றும் விவசா யிகள் நல அமைச் சகத்துடன் சென்னை ஐஐடி இணைந்து செயல்பட உள்ளது.

இதற்கான புரிந்துணர்வு ஒப்பந்தம் டெல்லியில் சமீபத் தில் கையெழுத்தானது. இந்த ஒப்பந்தத்தில் மத்திய வேளாண் அமைச்சக இணை செயலர் சாமுவேல் பிரவீன் குமார், சென்னை ஐஐடி ஸ்டார்ட் -அப் நிறுவனங்கள் ஆராய்ச்சி மையத்தின் இயக்குநர் ஏ.தில் லைராஜன் கையெழுத்திட்டனர்.



மத்தீய வேளாண் அமைச்சகம், சென்னை ககடி இடையே புரிந்துணர்வு ஒப்பந்தம் கையெழுத்தீடும் நீகழ்சியில் (இடமிருந்து) மத்தீய வேளாண் அமைச்சக இணை இயக்குநர்கள் (விரிவாக்கம்) என்.செல்வன், டி.டேவிட ராஜ்குமார், ககடி ஸ்டார்ட்-அப் நீறுவனங்கள் ஆராய்ச்சி மைய இயக்குநர் ஏ.தீல்லை ராஜன், மத்தீய வேளாண் அமைச்சக இணைச் செயலாளர் சாமுவேல் பிரவீன் குமார், கூடுதல் ஆணையர் (விரிவாக்கம்) சஞ்சய் குமார், இயக்குநர் (வேளாண்மை தகவல்) சதித்குமார்.

தில்லைராஜன் கூறும்போது, "இந்திய சமூக, பொருளாதார வளர்ச்சியின் முதுகெலும்பாக திகழ்வது விவசாயம். அந்த வகையில் வேளாண் மற்றும் அதுசார்ந்த துறைகளில் புதிய கண்டுபிடிப்புகளை கொண்டு வருவதில் ஸ்டார்ட்-அப் நிறு வனங்கள் முக்கிய பங்கு வகிக் கும். இந்த புரிந்துணர்வு ஒப்பந் தம் மூலம் வேளாண் தொடர்பான தகவல்கள் விவசாயிகளை எளிதாகவும், விரைவாகவும் சென்றடையும்" என்றார்.

இந்த புரிந்துணர்வு ஒப்பந்தம் மூலம் ஸ்டார்ட் -அப் நிறுவனங்கள் வேளாண் சந்தையில் புதிய பொருட்கள், புதிய சேவைகளைக் கொண்டு வரும். வேளாண் மற்றும் அதுசார்ந்த துறைகளுக்கு தகவல் தொழில்நுட்பங்களும், புதிய கண்டுபிடிப்புகளும் பல்வேறு வழிகளில் பயன் தரும். வேளாண் துறையில் ஏராளமான ஸ்டார்ட்-அப் நிறு வனங்கள் உருவாகும். தகவல் தொழில்நுட்ப வசதிகள் விவசா யிகளை எளிதில் சென்றடையும். விவசாயிகள் மற்றும் அதுசார்ந்த துறைகளில் உள்ளவர்கள் ஸ்டார்ட்-அப் நிறுவனங்களின் திறன்கள், சலுகைகள் குறித்து தெரிந்தகொள்ள முடியும்.

இவ்வாறு அதில் கூறப்பட் டுள்ளது.

### **Publication Team**

Thillai Rajan A. Shanmugapriya R. Krishna Kireeti

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	<ul> <li>Innovation is taking two things that already exist and putting them together in a new way.</li> <li>Theodore Levitt</li> </ul>
<ul> <li>The world is changed by your example, not by your opinion.</li> <li>Paulo Coelho</li> </ul>	
	Anything's possible if you've got enough nerve. J.K. Rowling

### Centre for Research on Start-ups and Risk Financing

An Institute of Eminence Research Centre Indian Institute of Technology Madras

207A, Department of Management Studies Indian Institute of Technology Madras, Chennai 600036. India. Phone: +91 44 2257 5559 Email: crest@wmail.iitm.ac.in

