

RISING ABOVE UNCERTAINTY THE 2022 SAGA OF INDIAN TECH START-UPS

INDIA TECH START-UP LANDSCAPE REPORT | 2022 EDITION



Foreword



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The last 10 years have seen the emergence of over 25,000 to 27,000 tech start-ups in India. The country is home to some of the brightest and most entrepreneurial talent, backed by the State which recognizes the potential the space holds. A testament to this statement would be the fact that these start-ups continue to bring in steady investments despite the ups and downs that 2022 has seen, and 23 of them have managed to emerge as unicorns in the last year. 2022 also witnessed several other trends – such as seed stage and early stage start-ups attracting more investments than existing unicorns, continued growth of Deep teach start-ups, and a shift in founders' strategies which we have explored in detail in the report.

However, 2022 also saw the global public markets experience a correction – particularly in technology stocks which saw a significant drop in valuations. Even technology companies that were doing well for themselves were affected. These changes prompted the tech start-ups to adapt to market shifts, and look at growth, not just survival with a dual focus on customers and investors in 2023.

In this report, we analyze the tech start-up landscape, take a look at the critical sectors such as BFSI, Retail, Enterprise, and EdTech, and see what the numbers say about existing Unicorns and potential Unicorns within the country. Furthermore, we present a detailed view of actionable recommendations that can help strengthen the ecosystem.

We remain optimistic about the year that is to come, even with as market recession and investor sentiments continue remain concerning. It is anticipated that investments and exits will ramp up throughout the year, although the initial quarter(s) may be slower as decision makers seek clarity and confidence in the market. We hope Zinnov's data and analyses will give you insights into the Indian tech start-up ecosystem that proves valuable to your business.

We hope that insights from this report are helpful to you and welcome your feedback and comments at research@nasscom.in.



TABLE OF CONTENTS

Executive Summary

2022 in Review Insights and key data points from ecosystem analysis

Outlook Our bold call-outs for 2023

Recommendation

For continued growth of the Indian start-up ecosystem

Note for Reader



04-09





59 - 66



Executive Summary

Snapshot of Indian tech start-up ecosystem – world's third largest



Note: (1) This report only covers start-ups founded in 2012-22 (2) For each calendar Year investment rounds & M&A of start-ups founded in 10-year timeline are taken for Analysis (3) Unicorns are private entities with more than \$1Bn valuation, analysis as on date 31-Dec-2022.Please refer to the note for readers for detailed list of exclusions from the unicorn club (4) Potential unicorns are start-ups founded between 2012-22 and with total funding more than \$50Mn+. Does not include start-ups that became unicorn on or before 31-Dec-22



Key trends and positive shifts post-COVID continued to hold strong in 2022

Growth in Seed-stage and Early-stage Investments

- With slowdown in late-stage, 66% of investments were raised by non-unicorns
- Early-stage and seed-stage investments grew 25-35% over 2021; ~18% increase in number of unique start-ups funded

Strong Investor Commitment

- 18+ industry sectors raised more investments than 4-year average (2019-2022) and 2019 calendar year
- >1.6X increase in unique and active venture capital and private equity firms, compared to 2021

Continued Growth of Deep-Tech Start-ups

- **12% of all start-ups** are leveraging deeptech to build more complex and smart solutions across industries
- At 42%, 10-Year CAGR, deep-tech start-up pool is growing faster than the ecosystem pace
- More than 2.5X increase in investments in last 3-years for DeepTech Start-ups

Evolving pool of Unicorns and Potential Unicorns

- India added the 2nd highest number of Unicorns, only behind US
- Simultaneously, **potential pipeline** expanded to 170+ at pace like 2021

Shift in Founder Playbook

- 30% of Unicorns and Potential Unicorns are investing, acquiring or actively collaborating with other start-ups, similar to 2021 & up from 22% in 2020
- Focus on improving business metrics, 60% unicorns and potential unicorns are actively hiring, 25% expect to be EBITDA positive

Consistent Corporate Participation

- 30% higher corporate participation in 2022 as compared to 2021
- 300+ corporates are actively investing, acquiring or partnering with start-ups.
- Investments and M&A pace improved over 2021 with participation of Indian corporates

Thriving Multifaceted Ecosystem

- **39%** of start-ups **incepted in 2022** are based in **emerging hubs.**
- **2.4X increase** in Growth in investment deals in Emerging Hubs since 2019
- **18%** of all start-ups, and **20%** of all unicorns, have **at least one-woman founder**



Founders are cautious about 2023 as they navigate turbulent times





Focused on business expansion

Founders are focusing on business expansion and using various strategies, such as partnerships, business model and pricing adjustments, and marketing spend optimization, to achieve their goals. Some are also exploring new growth opportunities and tackling complex problems in order to improve operational efficiency.

Intentional about fundraising process

57% of founders opt for longer fundraising process or forgo funding in 2022, focusing on building relationships with investors and improving business metrics. Most anticipate strong investor interest in 2023 and do not plan to wait for 2021 valuations

Optimistic about revenue growth, hiring and fundraising

48% are actively hiring and at least 70% expect their revenues to grow. 37% of founders predict that investment pace will recover within the next 12 months, while an additional 25% believe it will take up to 18 months for the pace to return. However, uncertainty about the market due to recessionary conditions in the West has caused some hesitation.

Source- Insights based on NASSCOM-Zinnov survey of 100+ start-ups across funding stages and industry sectors ; Zinnov CoNXT Research & Analysis



The tech start-up ecosystem is expected to growly sustainably through 2023





Focused initiatives from key stakeholders is essential for sustained growth

For Union Budget 2023-24, on behalf of the ecosystem, NASSCOM suggests		Simultaneously, we must also continue to strengthen core fundamental building blocks			
A	Parity on long-term capital gains tax for domestic investors	A	Talent Gap	Attracting Overseas Indian Tech Talent	Redefining University Education to be Outcome-Driven
B	Revise eligibility criteria for ESOP tax deferment	B	Revenue Growth	Institutional Support for Start-ups to Tap into Global Markets	Significantly Increase Public Procurement Targets
		С	Sector Focus	Special Investment Fund for Start-ups Building for SDG	Provide Institutional Support for Solving Bharat Challenges
С	Simplify compliance for investments	D	DeepTech Initiatives	Accelerate participation in Innovation Clusters and ongoing initiatives	Expand Industry-Specific Physical and Digital Sandboxes
D	Allow losses to be carried forward and set-off	E	mproving Success Rate	Leveraging Incubators to Support Unfunded Start-ups	Accelerate Deployment of CGSS to Support Start-ups



2022 in Review

Tech start-ups continue to be key drivers of India's economic and social growth

Driving Inclusive Growth

20% of Indian B2C tech start-ups are focused on low-income group with significant majority focusing on financial inclusion, access to affordable healthcare, better education and higher earnings as the core value proposition.

Increasing Technology Exports

With estimated revenue of \$8Bn+ in 2022, Indian SaaS start-ups are targeting to generate \$100Bn+ in revenues by 2026 \$1Tn India's Digital Economy Ambition

Enabling Sustainable Growth

Tech start-ups have been central to the expansive growth in Electric Vehicle adoption in the country and are critical players in initiative for better climate, affordable and clean energy, and sustainable communities.

Improving industry competitiveness

60% of Indian B2B tech start-ups are focused on Small and Medium Businesses with significant majority focused on – access to capital, access to customer, improved compliance, productivity and worker efficiency as primary value proposition.

Through 2022, start-ups have been net job creators with a significant majority on track to report improvement in key metrics





- 60% Unicorns and Potential Unicorns are actively hiring² albeit at a slower pace and with more discretion
- Layoffs have been pre-dominantly in EdTech, on account of shift to new normal. Otherwise, layoffs are preemptive or in adjustment to slower growth due to recession in west



Indexed Chart of Cumulative Revenue³ of Mature Start-ups¹ By Financial Year, annualized basis FY 2019

- 25% of Unicorns and Potential Unicorns are profitable³, or expect to be by mid-2023
- Start-up performance is driven by sector/market with Travel and Hospitality recovering rapidly and EdTech witnessing softness as students return to campuses

Note : (1) Unicorns and Potential Unicorns are collectively referred as the pool of Mature Start-ups, (2) Entities with more than 5% growth in headcount between June 2022 to Dec 2022 have been referred as hiring entities ; Others include 17 sectors like Automotive, Mobility, Media and Entertainment etc. (3) Revenue Indexing & Profitability analysis is done basis the subset of 120 entities representative of the pool Mature start-ups, which are registered in India and have publicly available data ; Source – LinkedIn, MCA

Investments dropped 24% over 2021, but crossed pre-pandemic highs

While there is a slowdown – annual investments were slightly higher than four-year average. A significant share of investments in non-Unicorns and increase in unique start-ups funded suggest that 2022 has been transition to new normal post two, statistically, exception years.



Equity investments in Indian Tech Start-ups By calendar year¹



Late-Stage² Equity investments in Indian Tech Start-ups By calendar year¹



Late-stage investments bore the brunt with a staggering 40% drop

The change in valuations for technology companies in the public markets also affected the private markets. Investors have seen a decrease in unrealized Internal Rate of Return (IRR) and start-ups have had a harder time demonstrating their business metrics to justify the valuations they were asking for in follow-on rounds, which has slowed down the pace of deals.

> Drop in mega-rounds (deals with round size greater than USD 100 Mn)

Drop in median deal value for all late-stage deals ; 14% increase in Median deal value excluding mega rounds³

Note: (1) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered (2) Late Stage include Series C and above funding rounds. Source-Zinnov CoNXT Research & Analysis

41%

29%



While early-stage and seed-stage investments, both, grew by more than 20%



Note: (1) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered (2) Seed stage include Seed and Angel stage funding rounds, Early stage include Series A and Series B funding rounds; Source-Zinnov CoNXT Research & Analysis



1.2

47% of all investment deals involved a start-up raising their first round



Note: (1) First-round round refers to the first equity funding round of a tech startup (2) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered ; Source-Zinnov CoNXT Research & Analysis



Tech IPOs declined sharply while M&A held steady due to Indian corporates



Note: (1) For each calendar Year, M&A rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, M&A rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, M&A rounds of start-ups founded between 2011-21 are considered (2) Percentage does not add up to 100% as a deal can have multiple reasons; Source-Zinnov CoNXT Research & Analysis



Emerging tech start-up hubs continue to expand with 39% share of start-ups founded in 2022



Note: (1) Established hubs are cities with at-least 1000 startups founded between 2012-22. Emerging hubs are Indian cities with less than 1000 tech startups founded between 2012-22 excluding established hubs (2) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered (3) First-round round refers to the first equity funding round of a tech startup; Source-Zinnov CONXT Research & Analysis

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% Share of Tech Start-ups in Emerging Hub By Year of Inception



Women entrepreneurs' success in the tech start-up ecosystem is becoming evident

The percentage share of women-founded¹ start-ups across stages of growth is in line with their participation in the ecosystem - indicating equal odds of success compared to their male counterparts. Thus, providing evidence of the women's intent and capability to play a role in the nation's economic growth and the crucial need for accelerating DE&I initiatives.



% Share of Women-Founded¹ Start-ups by Funding Stage



Note: (1) Start-ups with women as founders or co-founders are referred as women-founded or women led start-ups. (2) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered; Source-Zinnov CoNXT Research & Analysis



How did Indian tech start-ups tackle the storm in 2022?

The year 2022 has been challenging for technology start-ups. The founders have struggled with a skills shortage, which was made worse by the economic downturn. This also led to a decrease in business demand.

However, Indian start-ups have shown resilience by shifting their business strategies and focusing on operational efficiency rather than laying off employees or closing down operations. They have also turned to partnerships and collaboration models or have even considered expanding into new areas to revive business demand.

Despite steady revenue growth for many start-ups, investor sentiment and valuations remain a concern. This information is based on interviews and surveys conducted with over 100 start-up founders from various funding stages and industry sectors.

Undoubtedly, 2022 was a challenging year for founders

Founders have transitioned well with return to office and WFH. As collaborated by data, for seed and early-stage start-ups valuations and fundraise has been lesser challenge. Market demand and talent supply, however, have been extremely challenging.



Access to quality talent has been biggest challenge for founders

Low customer uptake, due to recessionary mood, has also contributed to extreme cashflow challenges

Founders appear to have taken shift in valuations and funding availability in stride, as part of business

■ Low ■ Moderate ■ High





Founders acted on multiple levers to improve cashflows to sustain business



What levers did you leverage to tackle business challenges?

22



And quickly focusing on multiple strategies to expand customer base





48% founders are hiring while 29% have been unable to raise funding this year

How have your hiring plans changed in past 6 months?

Have you been able to raise funds in past 6 months?





• Per expectation, funded start-ups have reduced or reallocated teams

• Start-ups across stages continue to hire people albeit at rationalized pace

- Only 11% of funded start-ups reported inability to raise funding
- Majority start-ups either deferred fundraise or shifted focus to building investor relationships in preparation for future fundraise



54% tech start-ups reported improvement in revenue in the past 12 months





Continued momentum in sector diversification

There has been a marked expansion in the industries targeted by Indian start-ups and an improvement in the quality of use cases being solved. Most sectors have raised investments greater than they did in 2019, with BFSI, Retail and Retail Tech, Enterprise Tech, and EdTech remaining the most preferred sectors.

Nascent sectors, including Agri-Tech, Industrial and Manufacturing, Energy and Utilities, are also growing rapidly with the adoption of technology-led solutions by end-customers and players across the value chain.

Sectors affected by the pandemic continued to see muted investor interest, while sectors critical to India's development, such as Environment Tech, Aviation, Maritime and Defence, and Life Sciences gained sustained interest.

B2B start-ups, with their technology and business model innovation, also gained prominence, as did SaaS which continues to advance India's position on the global product innovation map.

Most sectors have raised investments greater than 2019

The last three years have been outliers and consequently, 2019 and the 4yearaverage are better baselines for analyzing investment trends within the ecosystem. Almost all sectors have raised investments higher than 2019 and the 4-yearaverage.

04

of Sectors² with investments lower than 2019 and 4-Year

of Sectors most impacted – Mobility, Fitness and Wellness, Travel and Hospitality



average

All three sectors were severely impacted during pandemic and are expected to beat pre-pandemic highs in 2023

Comparative Assessment of Total Investments¹ By Sector, in \$ Bn, for sectors with \$100Mn+ investments in 2022



low

Relative Investments Intensity High

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BFSI, Retail, Enterprise and Education continue to be most preferred sectors



Shifting in Ranking in 2022 vs 2019 Based on investments in a sector in a calendar year¹

Note: (1) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered (2) Sector definitions are included in "Notes for Reader" section.; Source-Zinnov CoNXT Research & Analysis



Nascent sectors are growing rapidly as solutions mature and gain market traction

Growth is more evident considering small-base in 2019 and, increased adoption of technology-led solutions by end-customers and players across the value chain. Agri-Tech, industrial and manufacturing, energy and utilities are also sectors with strong SDG aspect.



A priority sector for India, Agri-Tech has been gaining increasing share of investments driven by market adoption



Food-Tech has undergone massive shift in past three-years; including leading the return-to-normal movement



Industrial and manufacturing, energy and utilities focused solutions have witnessed increasing uptake from end-users



Technology-adoption has hit record highs in media and entertainment, advertising and marketing sectors





■ HRTech/Human Resources ■ Social Platforms



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Sectors affected deeply by pandemic continued to witness muted investor interest

Building novel solutions these start-ups have two key characteristic – significant portion of workforce is skilled in deep-tech with focus on building patentable intellectual property.



Increase in fuel prices and slow market recovery made profitable growth challenge in SCM and Logistics



Mobility contracted with slow return to work, increase fuel costs, and increased preference for personal transport



Travel and Hospitality, apart from mobility, has been one of the slowest sectors to recover to pre-pandemic levels



In Fitness and Wellness investors have taken wait-and-watch approach for "winning" business model





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Sectors critical to India's holistic development are gaining sustained interest



- Driven by increased focus on ESG by large enterprises and search for sustainable businesses
- Sector has strong tailwinds for next decade

 Driven by growth of Space-Tech start-ups coupled with increased adoption of autonomous / remote-controlled solutions in private and public sector

Equity investments¹ in Sectors

 Currently cornered by few start-ups – the sector is at intersection of science and technology driven by need for digital therapeutics and marked demand to reduce cost of drug discovery and diagnostics

31

\$166.00

2022

B2B start-ups gained prominence with technology and business model innovation

Small Medium Businesses (SMBs) are key driver of economic growth. In India they contribute 27% of national GDP. Start-ups are actively driving digital maturity of this underpenetrated market seeking cost-effective solutions to take-on large enterprises.







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SaaS continues its long-march to place India on global product innovation map

Entrepreneurs are leveraging India's unique strength – largest pool of developers, small medium businesses, and largest R&D location for global MNCs outside HQ – to build solutions that are viable across borders. Segment was deeply impacted by shift in public market valuations.







Deep-Tech Start-up Growth Continues

The base of deep-tech start-ups in India is rapidly expanding in response to market needs, constituting 12% of the overall start-up ecosystem and growing faster than the ecosystem.

Deep-tech start-ups have also witnessed an increase in investments, with a 3x growth in seed-stage investments from 2020 and more than 30% year-on-year growth in early-stage investments, which is up 2x from 2020. There are over 500 inventive' deep-tech start-ups in India that are building new-to-world technologies and have a significant portion of their workforce skilled in deep-tech, with a focus on building patentable intellectual property.

Applications of deep-tech have permeated across all industrial sectors, with the convergence of technologies enabling start-ups to solve for more use-cases. The increasing adoption of deep-tech is essential in many industries due to increasing global competition and is also reflective of the improving technology skills in the Indian start-up ecosystem. With increasing focus and support from policymakers, an expanding base of talent with niche skills, and improving exposure to applications and technologies, we expect the diffusion of deep-tech to increase.

With 12% start-ups leveraging deep-tech, base continues to expand consistently

Distribution² Of Deep-Tech¹ Start-ups, By technologies leveraged



Note: (1) Deep-Tech start-ups are active tech start-ups that create, deploy or utilize advanced technology in their products or services. Advanced technologies largely include Artificial Intelligence/ Machine Learning, Internet of Things (IoT), Blockchain, Big Data & Analytics, Augmented Reality/ Virtual Reality (AR/VR), Robotics, 3D printing and Drones. (2) Total does not add to 100% as a deeptech start-up can leverage multiple technologies simultaneously to create products/ solutions; Source-Zinnov CoNXT Research & Analysis

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Equity investments in Deep-Tech Start-ups By calendar year¹



With \$3Bn+ in investments, deep-tech startups had a record year

With increasing digital spends from large enterprises across sectors – investments are expected to increase as start-ups gain business tractions and mature their product portfolio for scale.



Investments increased across all the funding stages²

Growth in seed-stage from 2020, Increased from \$0.1Bn to \$0.3Bn in 2022

Growth in early-stage investment from 2020 Increased from \$0.6Bn to \$1.4Bn in 2022

Note : (1) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered (2) Seed stage deals include Seed and Angel stage funding rounds. Early-stage deals include Series A and Series B funding rounds. Late-stage deals include Series C and above funding rounds.; Source-Zinnov CoNXT Research & Analysis


500+ "inventive¹" deep-tech start-ups are building new-to-world technologies

Building novel solutions these start-ups have two key characteristic – significant portion of workforce is skilled in deep-tech with focus on building patentable intellectual property.



Note: (1) Deeptech start-ups that are creating new products/ solutions with unique intellectual property or/and backed by scientific advances or fundamental research (2) A sample of 450+ deeptech start-ups were analyzed for patent analysis (3) A sample set of 500+ DeepTech start-ups considered for workforce analysis. % DeepTech workforce with relevant skills indicates presence of deep technology skilled employees in a DeepTech start-up including but not limited to roles like AI/ML Engineer, Blockchain Developer, Computer Vision Engineer, Blockchain Scientist, Robotics Engineer, AR Designer, Research Scientist etc. (4) Others consist of non inventive DeepTech start-ups; Source-Zinnov CoNXT Research & Analysis



9%

■ 0-24% ■ 25-49% ■ 50-74% ■ 75-100%

Distribution of "Inventive" Deep-Tech Start-ups

By percentage workforce with relevant skills³

31%

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Unicorn and Potential Unicorns Pool Strengthens

The shift in public market valuations has had a direct impact on the pace of unicorn development in India. A slowdown in late-stage funding was observed, due to a decrease in mega-rounds and median deal size. However, India still added the second highest number of unicorns, after the US, with an increased representation from B2B start-ups.

The potential unicorn club also saw similar growth as in 2021, with investments better distributed across different round sizes. This led to an increase in the number of start-ups with total funding greater than USD 50 million, creating a strong pipeline of potential unicorns.

The expanding pool of start-ups with resources available to gain market share and leadership also suggests that the years 2020 and 2021 were not an anomaly in terms of the number of start-ups becoming unicorns.

Despite the slowdown, the number of unique and active institutional investors remained strong. With a growing pool of experienced operators and India's unique parallel start-up ecosystem, continuous growth of the ecosystem is expected.

Shift in public market valuations has had direct impact on unicorn pace





Late-stage slowdown was due to drop in mega-rounds and median deal size



Note- (1) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered (2) Seed stage include Seed and Angel stage funding rounds, Early stage include Series A and Series B funding rounds and Late Stage include Series C and above funding rounds; Source-Zinnov CoNXT Research & Analysis

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Against the odds, India once again added 2nd highest number of unicorns



Source: (1) CB Insights – the complete list of unicorns (2) Hurun Global Unicorn Index 2021 (3) Zinnov CoNXT Research & Analysis (4) Beauhurst UK Unicorn List Data as on 31st Dec 2022 (5) Tech Aviv Israel Unicorn List (6) Towns and Cities have been combined into clusters. For instance, Silicon Valley clusters includes Palo Alto, Menlo Park, San Jose, Mountain View etc. Similarly, Delhi-NCR cluster includes Delhi, Noida and Gurgaon (7) Time to attain unicorn status is calculated from Year of Inception. Kindly refer to the unicorn definition from "Note for readers" section

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The Unicorn club composition shifted with increased representation from B2B start-ups

2021 was an outlier globally for new unicorn additions. With market shifts, the valuation multiples have changed and require start-ups to have significantly better business metrics. Adjusting for correction, unicorn creation pace is in line with ecosystem fundamentals.

% of new Unicorns are B2B start-ups; with significant pool focusing on SMB customers

% of new Unicorns have SaaS business model; increasing tally of Unicorns servicing global markets to 45%

of Sectors with at least one new Unicorn; expanding total to 20 sectors with at least one active unicorn

Of new Unicorns were in Enterprise Tech, BFSI, Retail and Retail Tech, SCM and Logistics; sectors constitute 56% of all unicorns

Number of Unicorns¹ Added or Removed By Calendar Year





of Start-ups Crossing \$50Mn+ in Cumulative Funding By Calendar Year



Seed-stage and Early-stage valuations held steady through 2021-22. Growth in potential unicorn pool is reflective of ecosystem depth and continued investor interest in technology start-ups. Pool is more diversified in terms of sectors, business models, customers and geographies serviced.



39%

Split between B2C and B2B start-ups in the pool

of start-ups with \$100Mn in total funding. We have strong pipeline for Unicorn club

of sectors represented in the pool; with Aviation, Maritime and Defence as newest entrant

% share of all Potential Unicorns¹ servicing global markets



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Despite slowdown, we witnessed in 1.6X growth in unique and active institutional investors

Through 2022, most active¹ VC/PE firms remain largely unchanged albeit with definite shift in their investing strategy. Adjusting for market normalization, we have largest-ever capital pool available for deployment in tech start-ups.



Number of unique institutional investors² By calendar year³, by various round sizes



Note: (1) Active investors are investors that have taken part in at least one deal in a particular year (2) Unique institutional investors include Venture Capital firms, Private Equity Firms and Corporate investors (3) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis(4) Corporate investors include Indian/ global corporate organizations and corporate venture capitalists (CVCs) (5) Early stage deals include Series A and Series B equity funding rounds ; Source-Zinnov CoNXT Research & Analysis

Corporate Participation in Indian Start-ups Intensifies

Corporate participation in Indian start-ups continued to increase significantly in 2022, with large enterprises investing, acquiring, and forming partnerships with start-ups. This trend reflects the ongoing confidence in the Indian start-up ecosystem. Seed and Early-stage start-ups saw the most traction, with corporations investing the most in mature sectors like BFSI, Retail and Retail Tech, Enterprise Tech, EdTech, Health Tech, and HR-Tech.

Indian MNCs leveraged start-ups for inorganic growth, while global MNCs appeared to have slowed their investments due to recessionary market conditions in their home countries. M&A activity in India remained active in H1 2022, despite the slowdown in global deals. There was a preference for younger companies due to more reasonable valuations, higher confidence in unlocking value post-transaction, and increased availability of assets. Corporations also deepened their open innovation capabilities.

The shift towards inorganic growth and open innovation in the wake of the pandemic has proven increasingly relevant in handling uncertainty, including shifts in customer behavior, new geopolitical challenges, increasing supply-demand gaps for technology talent, and reduced patience from financial investors.

Corporate participation grew 1.3X over 2021 baseline

Post-pandemic shift continues to stay relevant

Inorganic growth and open innovation have proved increasingly relevant tools for handling uncertainty including - shift in customer behavior, newer geopolitical challenges, increasing supply-demand gap for technology talent, and reduced patience of financial investors.







corporate OI program

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Note: (1) Includes both Corporate and Corporate Venture Capital (2) For each calendar Year M&A rounds of start-ups founded in 10-year timeline are taken for Analysis; (3) Open innovation refers to a company leveraging external knowledge and ecosystem for their innovation management strategies; Source-Zinnov CoNXT Research & Analysis

Distribution of Corporate Investment Deals By funding stage², by calendar year¹



Investment deals grew by 44% since 2020 with increase all investment stages

Corporate investments are most common in mature sectors like BFSI, Retail and Retail Tech, Enterprise Tech, EdTech, Health Tech and HR-Tech with significant majority being strategic bets for market expansion.



% share of Indian MNCs of unique corporates

Of participation was in deal size in the \$1-10Mn range

Note: (1) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered (2) Seed stage include Seed and Angel stage funding rounds, Early stage include Series A and Series B funding rounds and Late Stage include Series C and above funding round (3) Includes both Corporate and Corporate Venture Capital

55%

51%



75% of corporate M&A was driven by Indian MNCs seeking inorganic growth



Indian MNC participation grew due to increasing comfort in acquiring loss-making and/or technology businesses, and the increasing number of success stories emerging from these transactions. Global MNCs appeared to have slowed due recessionary market conditions in home geographies.



India M&A was active in H1 2022 despite slowdown in global deals. Preference for younger companies can be attributed to more reasonable valuations, higher confidence in unlocking value post-transaction, and increased availability of assets.

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Technology teams deepened their Open Innovation capabilities to build global solutions

Corporates are leveraging open innovation programs to reduce cost and increase pace of experimentation; while overall optimizing time-to-market. There is an increased preference to validate synergies before making strategic investments or acquisitions in core business areas.



Distribution of Active and Structured Open Innovation Programs¹ (by calendar year, by sponsor type)



Note : (1) Open innovation refers to a company leveraging external knowledge and ecosystem for their innovation management strategies . Types of Open innovation programs include Incubator, Accelerator and Partner Program ; Source-Zinnov CoNXT Research & Analysis



More mature start-ups leveraged the ecosystem for growth

Well-funded start-ups continued to leverage inorganic and Open Innovation strategies in 2022, with 80 unique active Unicorns and potential Unicorns deploying resources to leverage up-and-coming start-ups.

Equity investments remained the preferred mode for expanding market and technology capabilities. This trend is being formalized through the creation of dedicated teams. Growth in Seed-stage and steady Early-stage investments reflected market trends and were better suited to the size of available investment capital.

M&A activity slowed in 2022 as firms focused on capital optimization, including waiting for better valuations on prospective targets. However, Unicorns and potential Unicorns backed by investors actively acquired start-ups in H1 2022.

There was a fundamental shift in the growth playbook for start-ups and investors, with the playbook being influenced by sector trends, presence of serial entrepreneurs, risk appetite of investors, and availability of capital.

More well-funded tech start-ups leveraged inorganic and open-innovation strategies



% of mature start-ups¹ inorganic and open innovation strategies

80 unique active Unicorns and Potential Unicorns are leveraging up-coming start-ups as a means of growth and to prepare for the future.

Investments 25+ # of mature start-ups actively investing, more than 4X increase from 2019 , with increased activity from potential unicorns

M&A **50+**# of firms with at least 1 M&A transaction, more than 2X increase from 2019

Open Innovation

15+

Programs

of mature start-ups building **Open** Innovation Programs^{,,,} ~3X increase from 2019



Number of Investment Deals² by Mature Start-ups¹ By stage, by Calendar Year



Equity investments continue to be the preferred mode for expanding market and technology capabilities

Strategy taps into pre-existing behavior of new founders preferring experienced operators, especially successful entrepreneurs, to be angel investors. Formalization through a dedicated team allows for mature startups to build capabilities to discover new growth avenues.



140 +

50%

Growth in seed-stage and steady early-stage investments reflects market trends; and suit corpus size better

Unique start-ups have raised investments from Unicorns or potential unicorns, since 2019

% of 2022 investment in global start-ups; driven by new-age technologies like web3 , for B2B product/market expansion

Note : (1) Mature start-ups include Potential Unicorns and Unicorns. (2) For each calendar Year investment rounds of start-ups founded in 10-year timeline are taken for Analysis, for instance for CY 2022, investment rounds of start-ups founded between 2012-22 are considered for analysis; similarly, for CY 2021, investment rounds of start-ups founded between 2011-21 are considered Source-Zinnov CoNXT Research & Analysis



M&A pace slowed as focus shifted to value maximization in bear market

Backed by investors, fueled by mega-rounds, unicorns and potential unicorns actively acquired start-ups in H1 2022. Deal pace significantly slowdown as firms focused on capital optimization – including waiting for better valuations on prospective targets.





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Playbook is being leveraged more frequently and sooner in maturity cycle





Outlook

Tech start-ups anticipate 2023 to be a turbulent year , but are optimistic





The focus is on expanding business and being investment-ready

Having adapted to market shifts, the start-ups are looking at 2023 for growth, not just survival, with dual focus on customers as well as investors. A significantly high percentage is focused on business expansion – including addition of new revenue streams.



Business expansion along with fundraising are top priorities for funded start-ups

Unfunded start-ups are prioritizing fundraise along with revenue diversification – alluding to possible pivots



Cost optimization is relatively lower priority possibly because of interventions in previous months

What are your immediate business priorities over next 6-12 months? For Funded Start-ups





What are your immediate business priorities over next 6-12 months? For Unfunded Start-ups



■ Very High ■ High ■ Neutral ■ Low ■ Very Low

The tech start-up ecosystem is expected to grow sustainably through 2023



It is expected that **investments will be higher than the 5-year average** due to several factors, including the availability of dry-power, a strong funnel of Seed and Early-stage start-ups, expansion in customer spend on tech-led solutions, better clarity and confidence on market shifts, and improving business metrics.



M&A activity is expected to continue in 2023, but the return of IPOs may be delayed until the latter half of the year. The demand for rapid growth, slow pace of in-house development, ongoing difficulty in hiring technical personnel, and more reasonable start-up valuations are expected to maintain the pace of M&A deals. The market conditions for IPOs remain challenging, and start-ups will need to showcase sustainable growth to increase the odds of a successful listing.



In a recessionary climate, private and public market investors are likely to favor companies that deliver sustainable growth. The **pressure on technology stocks may** ease as these firms continue to achieve strong top-line growth and improving bottom-line results compared to non-tech companies. As a result, **market valuations** for technology firms may improve to higher than pre-pandemic levels, with a wider gap between the bottom and top quartiles.



Technology innovation and deep-tech adoption are expected to continue increasing, particularly in areas related to SDG that require complex solutions. The adoption pace may depend on the talent demand-supply gap as more global MNCs expand their India R&D centers. **Start-ups are likely to continue drive real-world application** in areas such as Quantum Computing, Web3, AI/ML, Cybersecurity, Robotics, Drones, Aerospace, and the Circular Economy.



In the coming year, we may see **new breakout sectors** beyond the traditional favorites. Over the years, there has been a diversification of use cases and opportunities that start-ups are pursuing across 25+ industries. **SaaS** as a revenue model and **B2B** as a business model **are expected to become more prominent**. Sectors such as **Agri-Tech, Environment Tech, Gaming, Automotive, Industrial & Manufacturing, Aviation and Defence** see a higher share of investments.



Recommendations

For Union Budget 2023-24, on behalf of the ecosystem, NASSCOM suggests



will remove friction in seeking investments from friends, family, and other investors adding a new asset class. It also reduces operational overheads for founders to focus on company building. Increase in the employability of graduates, particularly in deep-tech fields Increase in the participation of employers in the program

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We must also continue to strengthen core fundamental building blocks

Key Challenges		Recommended Initiatives				
A	60% of deep-tech start-ups are seeking better infrastructure and knowledge access	Accelerate participation in innovation clusters and ongoing initiatives	Expand industry-specific physical and digital sandboxes			
	Revenue growth is a key priority for all start-ups with	Institutional Support for Start-ups to Tap into Global Markets	Significantly Increase Public Procurement Targets			
В	33% expressing concerns on market recession in 2023	Special Investment Fund for Start-ups Building for SDG	Provide Institutional Support for Solving Bharat Challenges			
	46% founders identified hiring as key concern in 2023.		Redefining university education to be			
C	complexity increases non-linearly with growth	Attracting overseas Indian tech talent	outcome-driven			
D	 36% founders are unsure about investments while 25% anticipate 12-18-month period for investment pace to recover 	Leveraging technology and business incubators to support unfunded start-ups	Accelerate deployment of CGSS to support start-ups			

Accelerate momentum of Deep Tech start-up growth with deep initiatives

.....

Med.



Accelerate participation in ongoing Innovation initiatives

Time to

Impact

Call to Action

- Universities and Academic Institutions
- Government / PSU initiatives
- Industry Associations



Action Items:

- Research and identify specific innovation clusters and ongoing initiatives in areas such as cybersecurity, AI, quantum, semiconductor, web3, and automotive
- Engage with academia, corporate, and start-ups to understand their needs and challenges and how coordinated and comprehensive support can help them succeed
- Define current baseline for each initiative across key parameters # of participants, activity level of each participant and value-derived by each participant
- Develop a plan to accelerate participation in innovation clusters and ongoing initiatives, including - identifying proactive marketing, common repository of initiatives
- Create a streamlined process for interested entities to identify initiatives, finalize participation, with reduced paperwork – a single-window approach to enable 1-to-many collaborations
- Monitor the progress of supported start-ups and use the identified impact metrics to measure the success of the program

Impact Metrics:

- Increase in the number of start-ups actively leveraging innovation clusters / initiatives
- Improvement in the ranking of specific initiative in national ranking system
- Improvement in the recognition of India as a global innovation hub

A.2

Expand Industry-Specific Physical and Digital Sandboxes

Call to Action

- Central and State Government
- Universities and Academic Institutions
- Industry Associations

Time to Impact	High	•
Criticality to Ecosystem	High	•

Action Items:

- Research and identify critical and regulated industries (like defence, transportation, financial services, healthcare, and smart cities) where physical and digital sandboxes can be most effective in attracting intelligent entrepreneurs and promoting innovation.
- Develop a plan to expand industry-specific sandboxes, including identifying potential sources of funding and resources.
- Engage with start-ups, academia, and industry experts to understand the needs and challenges of these industries and how sandboxes can help them solve underserved and core challenges.
- Review and select start-ups to participate in industry-specific sandboxes based on their potential for impact and the identified needs and challenges of these industries.
- Provide funding and other resources to supported start-ups and offer ongoing support to help them succeed.
- Monitor the progress of supported start-ups and use the identified impact metrics to measure the success of the program.

- Increase in the number of start-ups participating in industry-specific sandboxes
- Improvement in the recognition of India as a global leader in critical and regulated industries
- Increase in the number of innovative solutions developed in these industries



Accelerating revenue growth through structured and strategic interventions



Institutional Support for Start-ups to win Global Markets

Il to Action Industry Associations	Time to Impact	Med.	
Central and State Government	Criticality to Ecosystem	Med.	

Action Items:

- Identify key business hubs being targeted by Indian B2B start-ups especially in North America, Europe and South-East Asia.
- Set up co-working and co-living space in these business hubs specifically for start-ups building SaaS solutions for global markets.
- · Deploy dedicated full-time teams to build local network and brand for India's technology-led businesses.
- Offer networking and other support services to help start-ups build relationships and tap into global markets.
- Measure the impact of the program on the number of start-ups successfully tapping into global markets and the reduction in time-to-revenue.
- Use the success of the program as a marketing tool to attract more start-ups to the program.

Impact Metrics:

- Increase in the number of start-ups successfully tapping into global markets
- Reduction in time-to-revenue for start-ups
- Reduction in Customer-Acquisition-Cost for start-ups, relative to direct independent efforts

B.2

Significantly Increase Public Procurement Targets

Ill to Action	Time to Impact	Med. 🔶
Central and State Government Public Sector Units	Criticality to Ecosystem	Med.

Action Items:

- Review and assess the current spend targets for public procurement in order to identify opportunities for increase, and define targets for each ministry, body and PSU.
- Develop a plan to significantly increase spend targets for public procurement, taking into account the needs and capabilities of start-ups in India.
- Ease norms and streamline the process for public procurement to make it more accessible and efficient for start-ups.
- · Promote the use of the Government e-Marketplace (GeM) among start-ups as a way to sell their products and services to government departments.
- Monitor the number of start-ups registered on GeM and the amount of public procurement from start-ups to measure the impact of the program.
- Use the success of the program as a marketing tool to attract more start-ups to participate in public procurement.

- Increase in the number of start-ups registered on the Government e-Marketplace (GeM)
- Increase in the amount of public procurement from start-ups, including PSUs
- Improvement in the process for public procurement for start-ups



Additional and specific support for start-ups focusing on critical sectors



Special Investment Fund for Start-ups Building for SDG

Call to Action

- Central and State Government
- Angel Networks / VCs
- Corporate CSR



Time to

Action Items:

- Research and identify potential sources of funding for the special investment fund.
- Develop a plan for the special investment fund, including criteria for selecting start-ups to receive funding and a process for disbursing funds.
- Define policies, regulations and process to enable contribution of CSR founds from corporates.
- Establish partnerships with organizations and institutions working on SDG goals to identify start-ups in need of funding.
- Review and select start-ups to receive funding from the special investment fund based on the established criteria.
- Disburse funds to selected start-ups and provide ongoing support and resources to help them succeed.
- Monitor the progress of funded start-ups and use the identified impact metrics to measure the success of the program.

Impact Metrics:

- Number of start-ups receiving funding from the special investment fund
- Number of investors (VC/PE) with dedicated focus on SDG theme
- Improvement in the scalability and sustainability of start-ups supported by the initiative

(B.4)

Provide Institutional Support for Solving Bharat Challenges

Са	ll to Action
	Corporate CSR
	Universities and Academic Institutions

Time to Impact Criticality to Ecosystem

Action Items:

- Research and identify the most pressing Bharat challenges that start-ups in India's cities and towns are addressing or could address.
- Engage with start-ups in India's cities and towns to understand their needs and challenges and how institutional support can help them succeed.
- Research and identify the gaps in current co-working, incubation and acceleration initiatives in the specific regions.
- Develop a plan to enable existing institution to support start-ups focused on solving these challenges, including identifying potential sources of funding and resources.
- Review and select start-ups to provide funding and other resources to selected start-ups and offer ongoing support to help them succeed.
- Monitor the progress of funded start-ups and use the identified impact metrics to measure the success of the program.

- Improvement in the scalability and sustainability of start-ups building solutions for SDG goals
- Increase in the number of start-ups solving Bharat challenges
- Improvement in the support ecosystem for start-ups in India's cities and towns



Reducing talent demand-supply gap for experienced and new professionals



Attracting Overseas Indian Tech Talent



Action Items:

Call to Action

- Research and identify targeted sectors (quantum, web3, cybersecurity, Health Tech, Fintech, and Enterprise tech) where local talent may be limited in terms of exposure and experience.
- · Prioritize target countries for sourcing candidates based on the availability of tech talent in targeted sectors and the potential for success of the program.
- Develop a targeted marketing campaign to promote the "Return to India" program to Indian tech professionals in prioritized countries.
- Create a streamlined process for interested start-ups and professionals to apply to the program.
- Track the number of Indian tech professionals attracted through the program and measure the impact on the quality and experience of the local talent pool in targeted sectors.
- Monitor the success rate of start-ups in targeted sectors to measure the overall impact of the program.

Impact Metrics:

- Number of Indian tech professionals attracted through the program
- Increase in the quality and experience of the local talent pool in targeted sectors
- Improvement in the success rate of start-ups in targeted sectors



Redefining University Education to be Outcome-Driven

Call to Action

- Central and State Government
- Universities and Academic Institutions
- Industry Associations

Time to Impact	Med	•
Criticality to Ecosystem	High	• V -•

Action Items:

- Research and identify successful outcome-driven education models being used by EdTech startups in India.
- Engage with universities and academic institutions to promote the adoption of outcome-driven education models in existing programs, particularly in deep-tech fields.
- · Provide resources and support to universities and academic institutions to help them implement outcome-driven education models.
- Create a streamlined process for interested start-ups and students to apply to the new programs / initiatives.
- · Measure the impact of the program on the placement performance to gauge employability of graduates and the talent demand-supply gap.
- Use the success of the program as a marketing tool to attract global firms to invest in India.

- · Number of universities and programs implementing an outcome-driven education model
- Increase in the employability of graduates, particularly in deep-tech fields
- Increase in the participation of employers in the program



Improve odds of success for top and middle of-the-funnel



Leveraging Incubators to Support Unfunded Start-ups

t	Time to Impact	Low	• \
ons	Criticality to Ecosystem	High	•

Action Items:

Call to Action

State Governmen

Industry Associati

- Engage with unfunded start-ups to understand their needs and challenges and how AIC/TBI intervention programs can help them succeed.
- Develop a plan for AIC/TBI intervention programs that provide non-equity support to unfunded start-ups, including identifying potential sources of funding and resources.
- Review and select unfunded start-ups to participate in TBI intervention programs based on their potential for impact and the identified needs and challenges.
- Provide non-equity support and guidance to supported start-ups on how to use their resources more efficiently.
- Monitor the progress of supported start-ups and use the identified impact metrics to measure the success of the program.
- Use the success of the program as a marketing tool to attract more unfunded start-ups to participate in AIC/TBI intervention programs.

Impact Metrics:

- Number of unfunded start-ups receiving non-equity support through TBI intervention programs
- Increase in the survival rate of participating start-ups beyond 12 months
- Improvement in cashflow of participating start-ups



Accelerate Deployment of CGSS to Support Start-ups

Call to Action

- Central and State Government
- Universities and Academic Institutions
- Industry Associations



Action Items:

- Review and assess the current deployment of CGSS in order to identify opportunities for acceleration.
- Develop a plan to accelerate the deployment of CGSS, including identifying potential sources of funding and resources.
- Engage with start-ups, banks, non-banking financial companies, and SEBI registered alternative investment funds (AIFs) to understand the needs and challenges of the program and how it can be improved.
- Review and select start-ups to receive collateral-free funding through CGSS based on their potential for impact and the identified needs and challenges.
- Provide funding and other resources to supported start-ups and offer ongoing support to help them succeed.
- Monitor the progress of supported start-ups and use the identified impact metrics to measure the success of the program.

- Increase in the number of start-ups receiving collateral-free funding through CGSS
- Improvement in the accessibility and efficiency of the CGSS program
- Increase in the growth and success of start-ups receiving funding through CGSS



Note for the Readers

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This report has been co-developed by NASSCOM and ZINNOV through a comprehensive study to understand the Technology Start-up Landscape in India.

This report analyses the following -

- Current scenario and emerging trends that define the Indian start-up ecosystem
- India's position as a global start-up hub that is becoming attractive for investors, start-ups & corporates
- Role played by Ecosystem enablers like Incubators/Accelerators, Govt. Policies in nurturing the start-up ecosystem



Definition of a tech start-up

START-UP: An entity working towards innovation, development, deployment, and commercialization of new products, processes, or services driven by technology or intellectual property





Definition of industry verticals

Enterprise Tech	 B2B Product companies targeting Horizontal solutions for Large Enterprises / SMBs E. G Data Analytics/AI/ML Platforms, Development Platforms, Collaboration tools Productivity Applications, Customer Services, Big Data/Cloud/Security Infrastructure, etc. 	BFSI	Enables financial services, banking and insurance through technology E.g. Online Banks, Financial Management Apps, Payment Management Platforms, Alternative Lending Platforms, Money Transfer Platform, Expense Management, Investment Platforms, Cryptocurrency & Trading Platforms, etc.
Health Tech	Provides technology platform for solving Healthtech problems E.g. Medical Solutions, Marketplace for Health Services, Health Lab Aggregators, Online Pharmacies, E-Diagnostics, Ambulance Aggregator, etc.	EdTech	Provides learning solutions & services through technology E.g. Learning Apps, Test Preparation Tech, Education Advisory Platform, K-12/Higher education platforms, Language Learning Platforms etc.
HR-Tech	Tech-enabled companies supporting Human Resources Activities E.g. Applicant Tracking systems, HR Management System, Candidate Assistance & Sourcing, Recruitment Marketplaces, etc	Travel and Hospitality	Tech companies engaged in supporting the travel and hospitality industry E.g. Hotel Booking Services, Travel Planning, Travel Packages Portal, Travel Collaboration Community, etc.
Automotive	Companies involved in production, manufacturing, sales and services of motorised vehicles E.g. Electronic Engineering, System Integration, Automotive Maintenance, Electric Vehicles, Automotive marketplaces, etc.	Mobility	Tech-enabled companies providing simplified Transportation services to users E.g. Car pooling, Self Drive Rentals, Two-wheeler taxi aggregators, Mass Transit, Tech Enablers.
Real Estate and Construction	Tech-enabled companies supporting Real Estate, Property Management & Construction industry E.g. Construction design tools, Building Technology, Real Estate Management, Security, Smart Home & cities enablers.	Retail and Retail Tech	Companies enabling Sales of goods and product online or Integration of tech in offline markets E.g. Products/Services cutting across several verticals Fashion & Lifestyle Marketplaces, Online grocery & Home essentials platforms .Also includes Retail enablers, B2B marketplaces, Social commerce platforms, Rental platforms etc



Definition of industry verticals

Industrial and Manufacturing	Engaged in manufacturing of tech-enabled devices or machines; Construction/Mining sector, etc. E.g. IoT based Predictive Maintenance of Machines, 3D Printing (Manufacturing)	Food-Tech	Tech-enabled companies supporting the Food-tech industry E.g. Online Food Ordering, Restaurant Management Cloud Solutions, Food Discovery Platform
Media and Entertainment	Provides content for entertainment across the web and mobile medium E.g. News & Media Apps, Live Streaming Apps, News Platforms, OTT Content, Video Intelligence Apps, etc.	SCM and Logistics	Enabling tech in logistics services and supply chain management E.g. Logistics and Distribution Platform, Fleet Management, Warehousing, IoT Platform for Logistics, IoT Platform for Transportation Marketplace,
Agri-Tech	Start-ups engaged in tech enablement in the Agricultural Industry E.g. Field Surveillance, Precision Agri-Tech, Farm infrastructure, Soil Testing, Farm Input E-Commerce etc	Gaming	Tech Innovation and facilitation in the Gaming Industry E.g. AR/VR Gaming, Community platform Games, Fantasy Gaming Platforms etc.
Aviation, Maritime and Defence	Tech-based companies supporting the Marine, Defence and Space, Aviation Industry E.g. Military Drones, Green Propulsion Systems developers, Sensors and Platforms for security applications etc.	Legal Tech	Tech-based companies for Legal help to Individuals/Corporates E.g. Contract Management, Brand Protection and Anti Counterfeit, Legal Services Discovery/Booking marketplaces, etc.
Energy and Utilities	Tech Enablement for Natural Resource Management and Utilisation E.g. Renewable Energy products, Recycling of Resources, Energy Production and Distribution, EV charging Infrastructure etc.	Advertising and Marketing	Provides direct advertising and marketing assistance through technology E.g. Content marketing, influencer marketing, Push notifications etc.



Definition of industry verticals

Professional Services	Tech-enabled companies providing concierge services E.g. Home repairs, auto servicing, on-demand laundry, matchmaking platforms etc.		Security and Surveillance	Includes Hardware, Software solutions for security and surveillance applications in Home, Enterprise and Govt institutions E.g. Video surveillance softwares/platforms, Biometric systems, home security products etc
Sports Tech	Includes solutions for sports industry E.g. Offline sports booking of the sports arena, sports content platforms, player management, and performance analysis.		Events Tech	Solutions for assisting Events industry E.g. Event Discovery, Booking Platform, Event Management Solutions
Fitness and Wellness	Start-ups associated with physical and mental wellness E.g. Emotional, mental wellness solutions, apps for physical fitness (bookings, home fitness assistance), marketplaces for nutrition supplements, wellness products – women's hygiene etc		Life Sciences	Tech-based solutions in life science E.g. Genomics- DNA/Protein Sequencing, etc
Telecom	Companies providing products/services to assist telecom sector E.g. Infrastructure enabling the delivery and transmission of telecom services, Cloud Telephony, etc		Cybersecurity	On premise or cloud-based products & solutions which detect, prevent and respond to cyberthreat to organizations or consumers. E.g. Network Incident Response/Intrusion Detection solutions, Identity Access Management solutions, VPNs etc
Environment Tech	Technology for environment preservation or green technology E.g. Tech solutions for air pollution, solid/water waste management, recycling solutions, climate monitoring etc.		Social Platforms	Online platforms that provide a medium for individuals or businesses to connect, network, interact, share multimedia content, or seek collaboration opportunities with other individuals or businesses E.g. Social networking sites, professional networking sites, online communities, blogging platforms, etc.


Other key definitions

U	nicorn	 Unicorns are privately held entities with valuation of over \$ 1 Bn. They include companies serving D2C markets. Start-ups that have not been included in the unicorn analysis: Holding companies like Globalbees and Mensa Brands. Unicorns that have raised IPO: Freshworks, Nykaa, Paytm, PolicyBazaar, Zomato, Delhivery Unicorns that been acquired or merged: BigBasket, Billdesk,Grofers, Shopclues, RenewPower, Flipkart Unicorns that have either devalued or shutdown: Snapdeal, Hike, Quikr, Paytm Mall 		Corporate Incubator	A fixed term, 6-24 month long, cohort-based program for pre-seed start-ups typically focused on Horizon 2 and Horizon 3 opportunities. Invariably, these are equity-based programs for corporates to get early access to large pool of ideas/solutions.
				Corporate Accelerator	A fixed term, 3-6 month long, cohort-based program for pre-growth and growth stage start-ups. During program, the emphasis is on building proof-of-concepts and/or on integrations to determine on long-term engagement.
In In	stitutional vestors	Institutional investors include Venture Capital firms, Private Equity Firms and Corporate investors		Partner Program	A requirement-based program, where corporate business units define problem statements that they are looking to solve, and partner with growing mid, or late-stage start-ups to build
Se	eed-Stage	Seed and Angel funding rounds raised by Indian tech company			complimentary solutions in exchange for a financial commitment
Ea	arly-Stage	Series A & B funding rounds raised by Indian tech company			
La	ate-Stage	Series C and beyond funding rounds raised by Indian tech company			



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NASSCOM®

NASSCOM is the industry association for the technology sector in India. A not-for-profit organization funded by the industry, its objective is to build a growth-led and sustainable technology and business service sector in the country with over 3,000 members. NASSCOM Insights is the in-house research and analytics arm of NASSCOM generating insights and driving thought leadership for today's business leaders and entrepreneurs to strengthen India's position as a hub for digital technologies and innovation.

NASSCOM is focused on the development of the technology sector through policy advocacy and setting up the strategic direction to dominate new frontiers.

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Founded in 2002, Zinnov is a leading global management and strategy consulting firm, with core expertise in Product Engineering, Digital Transformation, Innovation, and Outsourcing Advisory. Over the past 20 years, Zinnov has successfully consulted with over 250+ Fortune 500 customers to develop actionable insights that help them in their transformation journeys. Zinnov is committed to empowering leading technology companies drive meaningful business outcomes, leveraging a combination of consulting and platforms to deliver value.









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