NASSCOM Zinnov Indian Tech Start-up Ecosystem

- Leading Tech in the 20s

EDITION 2019

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Plot No 7 to 10, Sector 126, Noida, Uttar Pradesh 201301, India Phone: 91-120-4990111 E-mail: research@nasscom.in

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About the Authors

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The National Association of Software and Services Companies (NASSCOM®) is the premier trade body and chamber of commerce of the Tech industry in India and comprises over 2800-member companies including both Indian and multinational organisations that have a presence in India. Our membership spans across the entire spectrum of the industry from start-ups to multinationals and from products to services, Global Service Centers to Engineering firms. Guided by India's vision to become a leading digital economy globally, NASSCOM focuses on accelerating the pace of transformation of the industry to emerge as the preferred enablers for global digital transformation. Our strategic imperatives are to reskill and upskill India's IT workforce to ensure that talent is future-ready in terms of new-age skills, strengthen the innovation guotient across industry verticals, create new market opportunities - both international and domestic, drive policy advocacy to advance innovation and ease of doing business, and build the Industry narrative with focus on Talent, Trust and Innovation. And, in everything we do, we will continue to champion the need for diversity and equal opportunity. NASSCOM has played a key role in not just the growth of the Industry to become a \$180+Billion industry today, but we have helped establish the Tech industry in India as one of the most trusted partners, globally. NASSCOM continues to make significant efforts in contributing towards India's GDP, exports, employment, infrastructure development and global visibility. Our membership base constitutes over 95% of the industry revenues in India and employs over 4 million professionals, and as technology blends into every aspect of the economy, we expect the industry to become key driver of growth, development and inclusion for the country. Our mission is to make India a global hub for Innovation and Talent so when the world thinks Digital, the world will think India.

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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 17 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.

Foreword



Debjani Ghosh President, NASSCOM



Pari Natarajan CEO, Zinnov

The year 2019 has been phenomenal for India and its vibrant start-up ecosystem. While the Indian start-up ecosystem continues to be the third largest in the world, it saw 7 new additions to its incessantly flourishing Unicorn club. There are multiple levers propelling this remarkable growth of the ecosystem that are bolstering the Indian start-ups as well as creating an environment conducive for continued innovation.

What stands out most starkly in this report is how various elements of the ecosystem are coming together in symphony to give rise to an orchestra of innovation – right from Government support (State and Central), evolution of the investor landscape, increase in participation from the corporates, growth of national digital infrastructure, to incredible global exposure. These factors are together fuelling the ecosystem, so much so that the cumulative valuation of the start-ups has now crossed a massive \$55Bn.

Start-ups are exploring newer sectors, leveraging deep-tech and tapping unexplored talent pools. The increasing confidence of the entrepreneurs is also being enabled by various initiatives that the government, the corporates, and the investors are taking. This report is a testament to this rapidly advancing ecosystem, as it dives deep into the ten trends that are pushing the envelope. It also highlights some proactive measures that can help de-risk the growth and accelerate the ecosystem further.

We hope that the insights from this report prove useful to you, and we welcome your feedback and comments at <u>research@nasscom.in</u>

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Executive Summary

Snapshot of Indian start-up ecosystem

8900-9300 # of Start-ups¹ incepted during 2014-19, overall base growing at 12-15% y-o-y 1300+ # of Start-ups added² in 2019; steady and sustained growth in new Start-ups # of Unicorns³ added in 2019; total 24 unicorns are active in India 7 \$ \$4.4 Bn Total funding received by Start-ups¹ in 2019 (Jan-Sep) 18% Share of all start-ups leveraging deep-tech⁴; 40% CAGR since 2014 390+ Active institutional investors⁵; up from 310+ in 2018 <u>جي</u> 335+ Active incubators and accelerators; up from 320+ in 2018 (\mathbf{a}) 60,000 New Direct Jobs⁶ created; 1.3-1.8 Lakh New Indirect Jobs⁶ created

Note: (1) Please refer start-up definition. This report only covers start-ups founded in 2014-19 (2) No. includes start-ups already incepted and expected growth till Dec-2019 (3) Figure as on 31-Aug-19, unicorn is a start-up with >\$1Bn valuation (4) Deep-tech includes AI/ML, AR/VR, IoT, Blockchain, Cryptology, Robotics, 3D Printing, Big Data & Analytics (5) Have invest at least once in 2019 (6) No. of estimated basis analysis of 1000 funded start-ups across funding stages.

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10 key trends bolstering the Indian start-up ecosystem

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Growth of new start-up hubs

- 27% of all start-ups are based in emerging and nascent start-up hubs
- 15% of all funded start-ups are based in emerging and nascent start-up hubs

Increasing depth and breadth in sectors

- Start-ups are active in 20+ sectors including likes of energy, agritech, automotive etc
- 57% of unicorns added in 2019 where from nascent and emerging sectors.

Diffusion of deep-tech

- 18% of all start-ups are now leveraging deep-tech; up from 8% in 2014
- Deep-tech club is growing at 40% CAGR since 2014

Building on India's unique digital infrastructure

- India Stack has significantly expanded the total addressable market in India
- Start-ups are leveraging stack to build innovative solutions and growing quickly

Serving the underserved

- 31% of start-ups are serving small and medium businesses; up from 25% in 2014
- 47% of start-ups are serving low and middle income group; up from 43% in 2014

Built in India. Branded Global

- 21% of Indian start-ups are focused on market overseas
- 14% increase in global start-ups building products from India

Strengthening pipeline of potential unicorns

- 50+ start-ups have > \$50Mn in cumulative funding
- 3X growth in the number of start-ups in 2019

2nd Innings

- 55+ start-up founders (min. 3 investments) are actively investing in India
- 150+ start-ups founded by serial entrepreneurs

Evolving Investor Landscape

- 390+ active institutional investors; up from 310+ in 2018
- 1.5X increase in private equity investors from 2018

Intensifying corporate participation

- 140+ unique corporates active¹ in 2019; up 12-15% from 2018
- 50+ unique corporates have active open innovation program; up 12-15% from 2018

With proactive action Indian start-up ecosystem can realize its 4X growth potential by 2025





Note: (1) Analysis of companies founded between 2009-19. Estimated numbers as on Dec 2014. Includes Flipkart in Unicorns. (2) Analysis of companies founded between 2009-25 (3) Calculated based on analysis of all funded and 500 unfunded start-ups. Valuation Est. is based on data model (4) Calculated based on DPIIT model with adjustment for outliers witnessing strong growth (5) For Unicorns, start-ups founded in or after 2000 are considered.

The Indian start-up ecosystem continues to expand

Indian start-up ecosystem continues to be the 3rd largest in the world



China ²	USA ²	India	U. K ¹	Germany ¹	Israel ²
206	203	24	21	11	7
4 - 6	6 - 8	6 - 8	7 - 9	6 - 8	5 - 7
~3.8	~3.5	~3.2	~2.4	~2.0	~1.3
18	24	5	4	4	4
	China ² 206 4 - 6 ~3.8	China²USA²2062034 - 66 - 8~3.8~3.51824	China ² USA ² India 206 203 24 4 - 6 6 - 8 6 - 8 ~3.8 ~3.5 ~3.2 18 24 5	China²USA²IndiaU.K¹20620324214 - 66 - 86 - 87 - 9~3.8~3.5~3.2~2.4182454	China²USA²IndiaU. K¹Germany¹2062032421114-66-86-87-96-8~3.8~3.5~3.2~2.4~2.01824544

Notes (1) CBInsights – the complete list of unicorns (2) Hurun Global Unicorn List 2019 (3) Data as on Oct 2019 (4) Cities have been bundled into clusters. For example, Silicon Valley includes Palo Alto, Menlo Park, San Jose, Mountain View, Santa Clara, Cupertino, Campbell, Los Altos, Los Gatos, Milpitas, San Mateo, Saratoga, Sunnyvale. Similarly, Delhi-NCR includes Delhi, Noida and Gurgaon.

2019 was another remarkable year for the growth of Unicorns in India





Unicorns added in 2019

icertis

Location: Pune Total Funding: \$330 Mn Cloud-based contract management platform

Location: Bangalore Total Funding: \$306 Mn Developer electric mobility services & charging infrastructure



Location: Delhi Total Funding: \$781 Mn Logistics services for Indian ecommerce companies

RIVIGO

Location: Gurgaon Total Funding: \$238 Mn Tech-enabled logistics with a truck fleet of its own



Location: Pune Total Funding: \$211 Mn Backup & data loss prevention solution for enterprises



Location: Mumbai Total Funding: \$100 Mn Online platform for playing real time fantasy cricket and football



Location: Bangalore Total Funding: \$885 Mn Online retailer of grocery products

Overall, the Indian start-up ecosystem is growing steadily





Cumulative valuation of the start-ups has now crossed \$55Bn

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SWIGGY **RIVIGO** उ Share of Unicorns founded in 21% 2014-19 **OLA** ELECTRIC udaan 🔆 cure.fit meesho BLACKBUCK Share of start-ups at Series 24% C+ funding stage (excluding Unicorns) ShareChat Uc UrbanClap \$56-62Bn Cumulative valuation of start-ups¹ OkCredit Share of start-ups at Series A ple | Solid | Paperless 40% and/or Series B funding stage WICKEDRIDE VOGO digit HealthCube **IND** wealth DRIVE Share of angel or seed 12% funding stage start-ups FLEXI LOANS avenue 11

Illustrative Start-ups

Entrepreneurs are leveraging opportunities across sectors and markets





High Growth (CAGR >50%, since 2014)



Medium Growth (CAGR >35%, since 2014)



Note: Only sectors with 200+ active stat-ups have been considered

Fintech, enterprise, and retail tech are the most mature sectors with strong metrics across dimensions





Note: Model measures and plots maturity of a sector relative to all other sectors in terms of start-up and investor activity. Please refer appendix for definitions.

18% of all start-ups are now leveraging deep-tech

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- Deep-tech start-up pool has grown at 40% CAGR since 2014
- Pool has expanded from 16% of the total start-up base in 2018; and is up from 8% in the year 2014
- Blockchain, 3D printing, robotics, and drone start-ups continue to expand rapidly- albeit on a smaller base

Indian start-ups had an active 2019 with increase in overseas and domestic acquisitions





Investment environment for start-ups continues to be positive overall NASSCOM zinnov/



- Total investment in start-up ecosystem has increased by 16% yearon-year in 2019 (Jan to Aug)
- Distribution of funding was better compared to 2018 (Jan to Aug) with early stage start-ups increasing their share
- Only, seed stage investments have seen a drop in terms of share and absolute terms
- In 2019 share of unicorns^{1,2}, in total funding, was only 21% against
 48% in the previous year reflecting the Indian ecosystem's depth

10 key trends are enabling the ecosystem's growth

Key trends enabling the Indian start-up ecosystem's growth





Growth of new start-up hubs

01

While most of the reports consistently focus on established start-up hubs – we have witnessed a marked increase in start-up activities across India's emerging and nascent start-up hubs.

There is a steady rise in total number of start-ups and total funding received across these hubs. These cities boast of well-funded companies like LendingKart, CarDekho, CareStack and SurveySparrow.

With strengthening policy support, expansion of institution support, creation of local communities, and sustainable cost advantages - we can expect more success stories, including unicorns, from across the country.

Bangalore, Delhi-NCR, and Mumbai are home to 55-58% start-ups

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However, ecosystem expansion is driven by rapid growth of other start-up hubs





Note: Emerging start-up hubs are start-up hubs with more than 20 funded start-ups, Nascent start-up hubs are start-up hubs with less than 20 funded start-ups (2) Bangalore, Delhi-NCR and Mumbai are also established start-up hubs.

Emerging start-up hubs are growing steadily





Early indicators from nascent start-up hubs are positive

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Proactive actions from local communities, academia and state government are driving growth of new start-up hubs





Strong policy support, expanding talent base, and proximity to untapped markets are some of the key drivers





Strong policy support

Since 2014, there has been a remarkable increase in the quality and the extent of support provided by the State Government. State specific start-up policies have enabled expansion of infrastructure, coworking spaces, incubators, and accelerators – and in certain cases access to funding and market access.

Expanding talent base with better exposure



India's talent base is expanding beyond large cities as fresh graduates are choosing to stay back in non-metropolitan cities. These individuals have an almost similar exposure to technologies via the Internet. This enables the founders to recruit quality talent at a relatively lesser cost – allowing better runway and also a base for growth.

Proximity to markets



Start-ups have almost similar access to global markets like their peers in established hubs. Additionally, their proximity to digital populous outside large cities allows them to understand and solve for relatively untapped it's use-cases. For example, Agritech start-ups in smaller cities have a distinct advantage in understanding pain points of the relevant masses.

Increasing depth and breadth in sectors

02

Diversity in industry sectors and use-cases is reflective of an ecosystem's strength. We continue to witness an expansion in industries targeted by Indian start-ups and also a marked improvement in the quality of use-cases being solved for.

There is increased activity in Edtech, Retail & Retail tech, HR, and Healthtech technology startups while significant improvement in sectors like Agritech, aerospace, defence and space.

With active institutional participation, expanding community base, and constant policy support we can expect this trend to continually strengthen the Indian start-up ecosystem.

The Indian ecosystem has a healthy mix of sectors at varying maturity levels



30

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In mature sectors like fintech and enterprise, start-ups are focusing on newer use-cases





In Healthtech and retail tech as well, variety of use-cases are increasing





Strong investor-interest is supporting the growth of emerging sectors





We are also witnessing the emergence of start-ups in nascent sectors





We anticipate emerging and growing sectors to steadily mature, and a continued diversification in sectors





Improving institutional support

Access to large datasets and improved lab facilities with sector specific capabilities allows entrepreneurs to reduce timeto-market. A good example would be innovation facilities being set-up by **ISRO** across the country.



Increasing corporate participation

Revenue opportunities through increasing corporate collaboration programs improves odds of success and attracts more entrepreneurs to the sector. For example, there is an increase in participation in aerospace and automotive.



Sector specific policies and initiatives

Policy focus, e.g. electric vehicles, and Government's commitment to increase procurement from MSME, e.g. smart governance and defence sector, is steadily opening opportunities/markets for start-ups.



High global exposure

With average founder age at 32 years – experienced founders are entering the ecosystem consistently. Exposure from prior work experience with domain expertise allows them to focus on deeper problems.

Diffusion of deep-tech

03

With 18% of base being deep-tech start-ups, applications have permeated across all industrial sectors. Further, convergence of technologies is enabling start-ups to solve for more use-cases.

With increasing global competition, adoption of deep-tech is essential in many industries. The increasing adoption is also reflective of the improving technology skills in the Indian start-up ecosystem..

With increasing focus and support from policymakers, the expanding base of talent with niche skills, and improving exposure to application and technologies – we expect this diffusion of deep-tech to enable a globally recognized innovation ecosystem in India..
Deep-tech adoption is pervasive across sectors

Shift in deep-tech¹ adoption across sectors, by year



Start-ups in Enterprise, Healthcare,
 Fintech, Industrial and Manufacturing
 sectors have been the quickest to adopt
 deep-tech.

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 Sectors like Edtech, SCM & Logistics, AgriTech have seen a shift in deep-tech adoption to solve problems for the masses.



AI/ML is being deployed heavily in enterprise, fintech, and Healthtech NASSCOM zinnov



Start-ups are leveraging IoT to solve use case primarily in manufacturing, healthtech, and real estate





There has been a significant increase in the number of blockchain start-ups









Pool of start-ups in robotics, 3D printing and cryptology is slowly expanding





Convergence of deep-technologies is giving rise to new use-cases and solutions

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- Surveillance in smart cities, military, and defence
 - Aerial mapping of real estate
 - Capturing live events from wide angles

• Train machines for modelling objects

Deep-tech start-ups also hold key to efficiently solving India's pressing challenges, at scale





Improving talent skillsets combined with policy measures is expected to support rapid adoption of deep-tech





Improving talent skillset

Programs like NASSCOM **Future Skills**, Government of India's **Skill India**, and multiple corporate initiatives, e.g. Intel, Google and Microsoft have committed to skilling more than 200,000 engineers through different mechanisms. This will provide the talent base required to take-on the market challenges and opportunities.

Improving exposure with increasing corporate R&D Centres



R&D centres of global MNCs in India are increasingly taking on cutting-edge mandates from headquarters, e.g. **Google**, **Ericsson, and Microsoft set-up their global AI research centres** in India in 2019. This coupled with an inclination and openness to leverage start-up ecosystems provides the much needed opportunities and exposure to both entrepreneurs and their teams; and simultaneously expands pool of potential experience entrepreneurs.

Focused support from policymakers



With whitepapers and policies such as **National Strategy for Artificial Intelligence**, **National Drones Policy**, and **National Digital Communications Policy 2018** amongst others – policymakers are creating a conductive environment for start-ups to build solutions without ambiguity around rules and regulations. These measures open up the expanding targetable market opportunities.

Building on India's unique digital infrastructure

#04

The hypothesis that India-specific technology stacks are driving innovation has been proven to be true. India Stack has provided start-ups a newage innovation architecture that fundamentally reduces the time-to-market and challenges industry norms.

While majority of current use-cases are in banking and financial services – there is a second-order effect across insurance, Edtech, and Healthtech sectors.

We can expect the impact of India-specific technology stacks on market dynamics to be a key driver in the ecosystem's growth. It can also, potentially, enable global disruption in industries like Healthtech, Edtech, and financial services. The India Stack has been one of the biggest reasons for India's successful technological inclusion of its citizens





Start-ups are leveraging India Stack's disruptive nature to provide seamless services to customers



India Stack's Open APIs allow for 3rd party disruption



Background (
) directverify AuthBridge 🕺 Verification FRSLABS **t** PhonePe **Payments A**Razorpay 2 benow indifi *E* **E Z** Cred Lending Quikkiloan 3 **Paperless** digio Leegality ezeDox Consent Тах SPIDER To naapbooks **green**GST Compliance

Start-ups leveraging India Stack

Source: iSpirt, Zinnov Research and Analysis

Success of India Stack in driving innovation is expected to compound with new and upcoming government platforms





INDIA STACK

With strong drivers the trend is expected to gain momentum as more success stories emerge





Strong commitment and support from policymakers

With the success of India Stack, the Government has increasingly leveraged technology for the nation's growth and to deliver public goods. Multiple bodies have articulated their intent to expand the technology stack to energy, governance, edtech, transportation, and Agritech sectors.

Adoption Initiatives by Government and Industry Bodies



Various industry bodies that engage with corporates and start-ups have created dedicated programs to create awareness on existing platforms and increase adoption of existing stacks. E.g. NPCI's collaboration with T-Hub and Maharashtra Innovation Society to drive national building goals through India Stack.

Economic advantage observed by start-ups and companies leveraging the India Stack



Start-ups have begun to observe the advantages of adopting government-built stacks. Expanding total addressable market along with better access and lower cost structures are strong drivers for start-ups to serve large untapped markets.

Serving the Underserved

Improved connectivity and increased technology adoption have significantly improved the addressable market in India. Entrepreneurs are increasingly building products across sectors for these markets.

Indian SMBs and consumer segments are not only large markets by themselves – servicing them can potentially unlock larger under serviced global markets for Indian start-ups.

With increasing internet penetration, expanding technology access, and improving ease with online transactions – we expect more entrepreneurs to service the challenging but under tapped markets.

#05

With shifting income segments and improved connectivity the target addressable market in India is growing





Source: BCG Report 2017-The New Indian, Kantar IMRB

Start-ups with India 1 as primary market are focusing on user experience, personalization, and niche use-cases



Illustrative use-cases and start-ups across different sectors



For India 2, start-ups are using vernacular languages and business model innovation to target multiple use-cases





20% of B2C start-ups are working towards building solutions for India 3 market with focus on necessities









Trend is expected to gain momentum on account of large untapped markets and improving connectivity





Expanding addressable target market

With success of India Stack, the Government has doubled down on leveraging technology for nation's growth and for delivering public goods. Multiple bodies have articulated intent to expand technology stack to energy, governance, edtech, transportation and Agritech sectors. This is supported by projects like Digital MSME.



Improving connectivity and increasing comfort with digital technology

87% of India's internet users are classified as regular users. With only 40% penetration the base is expected to grow rapidly. With among the lowest data rates, India already has the highest per capita data usage. Coupled with increasing adoption of UPI for micro-payments it is expected that the odds of online transaction will increase rapidly in coming years.

Large, untapped and unique market with global opportunity

[`\$.]

India's unique demographic and income mix requires heavy localization of products and solutions for them to succeed at scale. Proximity to a large untapped market with improving accessibility and affordability quotient is expected to be the biggest attraction for start-ups. Importantly, research notes that these solutions can be offered to 5.8Bn people globally.

Built in India. Branded Global.

06

Ecosystem's effort to promote product start-ups from India for global markets has begun to yield results. More and more entrepreneurs are building technology products from India and targeting both western and eastern countries.

Simultaneously, access to markets and quality talent base continues to attract global start-ups, including unicorns, to build products from India. The numbers continue to increase.

With access to large markets, high quality and relatively inexpensive talent, and an increasing knowledge base – we anticipate that the Indian ecosystem will build more and more globally recognized products.

21% of Indian start-ups are primarily focusing on global markets





Distribution of start-ups on the basis primary

Start-ups are building solutions across multiple sectors

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Retail & Retail tech Real Estate & Construction Enterprise Fintech 🗘 Foyr 🗘 Vue.ai ManufactOn Fovr Manufacton WEINVEST Vue.ai Founded year: 2015 moengage Founded year: 2014 Founded year: 2014 HQ: Hyderabad HQ: Bangalore HO: Chennai Geo Served: United States Geo Served: United States Geo Served: North America, EU Welnvest MoEngage Total Funding Raised: \$3.5 Mn Total Funding Raised: \$9.7 Mn Total Funding Raised: \$27 Mn Founded year: 2014 Founded year: 2014 HQ: Bangalore HQ: Bangalore Geo Served: United States Geo Served: APAC Total Funding Raised: \$16.8 Mn Total Funding Raised: \$12.3 Mn **Travel & Hospitality** Education fyle oxfordcaps e headout 🕎 unacademy Oxfordcaps Headout Unacademy Fvle Active Intelligence Founded year: 2017 Founded year: 2014 Founded year: 2015 Founded year: 2016 HQ: Gurgaon HQ: Bangalore Founded year: 2016 HQ: Bangalore Geo Served: APAC Geo Served: United States HQ: Bangalore HQ: Bangalore Geo Served: United Kingdom Total Funding Raised: \$11.3 Total Funding Raised: \$13.8 Geo Served: APAC, US Geo Served: United States Total Funding Raised: \$90.2Mn Total Funding Raised: \$14.7 Mn Mn Mn Total Funding Raised: \$10.6 Mn **Healthtech & Wellness SCM & Logistics** 🔁 flock DRIPC gure.ai **LOCUS** innovaccer Flock **Drip Capital** Founded year: 2014 Founded year: 2014 Qure.ai Locus Innovaccer HQ: Mumbai HQ: Mumbai Founded year: 2016 Founded year: 2015 Founded year: 2017 Geo Served: United States Geo Served: United States HQ: Mumbai HQ: Noida HQ: Bangalore Total Funding Raised: \$45 Mn Total Funding Raised: \$45.1 Mn Geo Served: Asia, NA, EU Geo Served: United States Geo Served: United States Total Funding Raised: \$2.3 Mn Total Funding Raised: \$111 Mn Total Funding Raised: \$32.5 Mn

Density of Startups:

High

Medium

L

Also, start-ups with India as an initial market are now going global

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Journey of start-ups foraying into global markets



Additionally, global unicorns and start-ups are leveraging the Indian ecosystem to build innovative products







With inherent local advantages, start-up will continue to leverage India to build world-class products and solutions





Large and quality talent base

India has a strong technology talent base which can be leveraged at a fraction of the cost as compared to other global locations like USA and UK. This creates a strong incentive for start-ups, like large corporates, to build in India.

Business model advantage



New business models for technology products allows for inside sales from India allowing global players to adopt solutions from start-ups without long sales cycles. There has also been an increased openness from customers to try new and competitive solutions which has allowed India-built solutions to go global.

Improving institutional support

A Trifecta of factors like global start-up missions, overseas investors, and support from experienced founders has improved the access global market. For example, Softbank enabled Oyo and Paytm to enter markets like China and Japan; while Start-up Canada has provided Indian entrepreneurs an alternate launchpad to access the North America market.



Increasing corporate R&D participation in the Ecosystem

Global corporate R&D centres are leveraging open innovation to drive internal mandates. This, in turn, is allowing Indian start-ups to solve global challenges early in their lifecycle and gain customer base before building overseas presence.

Strengthening pipeline of potential unicorns

07

Unlike 2018, this year investments were better distributed across different round sizes. This led to an increase in the number of start-ups with total funding greater than \$50 Mn, creating a strong pipeline of potential unicorns.

An expanding pool of start-ups with resources available to gain market share and leadership, also confirms that the years 2018 and 2019 were not an exception in terms of number of start-ups becoming unicorns.

Growing pool of experienced operators along with India's unique parallel start-up ecosystem, is expected to support continuous growth of the ecosystem.

Unicorn club has significantly expanded in 2019

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- 2019 witnessed addition of 2 unicorns from Pune. This is second year in a row where a start-up outside Bangalore, Delhi-NCR and Mumbai has achieved a unicorn status
- 5 of 7 unicorns added in 2019 were B2B highest ever in a year till date
- Indian unicorn club now has companies in gaming, supply chain and logistics, enterprise, e-mobility in addition to e-commerce and mobility

Number of Start-ups that achieved Unicorn status in



India has its largest pipeline of potential unicorns, ever

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Share of start-ups¹ with total funding raised greater than \$50Mn, by founding year

Number of Start-ups¹ having greater than \$50 Mn funding







- Pace of investment suggests that start-ups, founded in 2014-19, are scaling quicker than their older peers
- These start-ups constitute almost approximately 41% of the total pool of all companies with greater than \$50Mn in cumulative funding

2019 was remarkable in terms of number of start-ups added to the potential unicorn pool





We have an increasingly heterogenous mix of start-ups across sectors



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Within their sectors the start-ups are targeting varied end customers **NASSCOM** zinnov





Note: Analysis of start-ups founded between 2014-19 and with total funding more than \$50Mn+. Does not include start-ups that became unicorn on or before 31-Aug-19

A growing pool of experience operators and India's parallel ecosystem will enable continuous expansion of the pipeline





India's parallel start-up ecosystem

The parallelism observed with the rise of one start-up triggering the growth of other, solving complementary problems is expected to strengthen the pipeline of Unicorns in future as seen in the case of Flipkart and PayTM in the past. This is a unique feature of the Indian start-up ecosystem compared to the sequential growth of sectors in US and China



Improving Institutional Support

Committed policy support to open new markets, improve regulations, and provide enabling innovation architecture; and an expanding pool of global investors looking to add value beyond just investment – is creating suitable environment for start-ups to target more opportunities and access resources required to grow.



Growing and accessible pool of operators

The consistent increase in continued participation of experienced operators in the ecosystem has led to the creation of strong knowledge base and best practices for the newer pool of start-ups. Moreover the first batch of entrepreneurs and start-up employees with experience in growing a new business – are allowing newer firms to grow more efficiently.

2nd Innings

We observed a consistent increase in continued participation of entrepreneurs, investors and former employees of start-ups in the Indian ecosystem, albeit in different personas compared to how they started.

Not only does this reflect positively on the country, it augments the overall growth of the ecosystem as the hands-on knowledge is retained and shared with the larger pool.

On the basis of global data, as ecosystem matures, we can expect an increasing number of individuals to continue to be part of the ecosystem – and don multiple hats/personas.

08

First cohort of successful entrepreneurs are turning into angel investors to support the start-up ecosystem





Number of start-up founders (with >3 investments) actively investing in the ecosystem; up from 45+ in 2018



Total number of start-ups¹ funded by founders; up from 210+ from 2018

- Entrepreneurs turned investors are bringing more maturity to the start-up ecosystem
- Having had a stint as a prior entrepreneur they are more capable mentors for the first timers than the other angels
- Serial Entrepreneurs turned investors are taking initiatives to solve for the capital starve in seed stage ecosystem. E.g. 100.VC, angle networks

Entrepreneurs		Invested Start-ups		
Kunal Behl Angel Investor Founder - Snapde	eal	30	Khata Book	L <mark>eo</mark> na Al
Vijay Shekhar Sharma Angel Investor Founder - Paytm		25	C - + Goqii	Nurturing reen Gran örfing Dan Landzarg Syman
Girish Mathruboothar Angel Investor Founder - Freshd	n esk	22	₽ spot draft	P pickyourtrail
Amit Ranjan Angel Investor Founder - Slidesh	are	11	🕡 TapChief	UCIDEUS
Ramakant Shar Angel Investor Co Founder- Livespace.com	rma	7	A Propelld	gromဖ်
Pool of serial entrepreneurs is growing, slowly but surely



150 +

Start-ups¹ have been founded by serial entrepreneurs

- Serial entrepreneurs typically have better odds of success than new entrepreneurs
- · Their continuous participation is reflective of the opportunities at hand
- And of a maturing ecosystem as past experience continues to contribute to future growth



Amit Gupta Founded Yulu (Funding Raised: \$6.8 Mn) Inmobi (India's first Unicorn)





Anand Jain Founded Clevertap (Funding Raised: \$41.6 Mn) Burrp (Acquired by Infomedia18)

CleverTap burrp



Kumar Rangarajan Founded Slang labs (Funding Raised: \$1.2 Mn) Little Eye labs (Acquired by Facebook)



Illustrative List



Kunal Shah Founded CRED (Funding Raised: \$147 Mn) Freecharge (Acquired by Axis Bank)







Kashyap Deorah

Founded Hypertrack (Funding Raised: \$8.5 Mn) Chalo (Acquired by opentable) Chaupaati Bazaar (Acq. By Futurebazzar.com)

Shypertrack



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Founded Meddo (Funding Raised: 3.6 Mn) Foodpanda (Acquired by Ola) Printvenue (Funding Raised: \$4.5 Mn)

📲 meddo 🐼 foodpanda

Having witnessed from sidelines, investors are becoming entrepreneurs



Illustrative List



Number of start-ups¹ founded by former (fulltime) investors

Investor turned entrepreneurs have been observed to have certain advantages:

- Easier access to the funding Network
- Fiscal Discipline strong determination to derive maximum value from every penny spend
- Learning from the mistakes of entrepreneurs that they have funded in past
- Broader business perspectives

This micro-trend is reflective of the whitespaces and opportunities at hand in the ecosystem.



magicpın

Abhishek Shah CEO & Co-founder, Wellthy Therapeutics Ex Vice President, Unilazer Ventures

Squadcast

Amiya Adwitiya CEO & Founder, Squadcast

Ex Investment team, Accel Partners

Anshoo Sharma CEO & Co-founder, Magicpin Ex Venture Partner, LightSpeed India Partners

indifi

INVOV8

)fisdom

Alok Mittal CEO & Co-Founder, Indifi Technologies Pvt Ltd Ex Managing Director, Cannan Partners

Dr Ritesh Malik CEO & Founder, Innov8

Coworking Ex Founder, Geurilla Ventures

Subramanya SV Co-Founder, Fisdom Ex Managing Director, Bessemer Venture Partners

Ex Managing Partner, Prime Ventures

SETU

Sahil Kini CEO & Co-founder, Setu Ex Venture Advisor, Aspada Investments

Bala Parthasarthy

CEO & Co-Founder,

Moneytap

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The ecosystem flywheel is in motion with each successful start-up becoming a launchpad for a larger number of start-ups





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The trend is expected to intensify, as a virtuous cycle expands on the back of a growing start-up ecosystem



Preference for Experienced Operators



As per research, individuals with prior exposure to start-up ecosystem can reduce failure rates and produce more successful exits with their tactical, experiential knowledge and easier accessibility. This automatically makes them a preferred choice for different roles.



More friendly environment to start-up

With more availability of capital, strong support of the ecosystem, wider talent base and expanding targetable market base across the sectors - the environment for setting up a start-up has improved as compared to the 1st innings of the operators. This combined with prior experience makes a new venture more attractive.



Expanding base of successful start-ups

As the number of successful start-ups increase, it is only natural for us to witness more experienced operators taking up newer roles. In mature ecosystems like US, it is estimated that 10% of all active founders are serial entrepreneurs and a higher base has had some prior experience with the start-up ecosystem.

Evolving investor landscape

09

In 2019 witnessed an increase in number of institutional investors and a change in how angel investors source and execute deals.

This shift in investor mix led to an increase in average deal size but a drop in the number of deals and net new start-ups funded. It also led to investors moving upstream for a variety of reasons. Interestingly, we witnessed investors innovating on their unique value proposition to attract start-ups.

With policymakers proactively resolving issues, increasing number of new and renewed funds, and quick follow-on rounds – we can expect the investors to become creative and innovative.

We witnessed a balanced distribution of investments across round sizes



Total Investments across different round sizes



- Drop in deals smaller than \$1Mn is attributed to the challenge with Angel Tax that lead to a large drop in number of active investors; it also lead to drastic reduction in unique start-ups funded at seed
- Institutional activity at seed stage, though higher, translated into larger cheques and hence round size
- 2019 has not witnessed any mega funding rounds greater >\$500Mn in a single start-up

Angel investors are taking new approaches for deal sourcing and execution



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There has been an increase in the number of active institutional investors across the board



Number of unique investors by round size



- 14% increase in # of unique investors in 2019 as compared to 2018.
- Given the institutional preference for a minimum post deal equity ownership, the entry of institutional investors also led to an increase in the average deal size at seed stage.
- Overall, there has been an increase in the number of unique investors across all funding rounds – except marginal drop in \$1-10Mn round sizes.
- This has also contributed to an increase in the number of funding rounds in \$50-500Mn round size.

Investor pool composition is shifting, with clear increase in private equity investor across rounds





Seed and early stage institutional investors are responding by increasing focus on downstream investments





Launched **ReBound** accelerator program focused on second and third time founders. Peer learning program is designed to engage 8-10 start-ups at a time.



Launched **Arka Venture Labs** in partnership with Silicon Valley based fund -BGV and Emergent. Initiative focuses on B2B start-ups and provides them up to \$200K in investment with mentorship



Operates **Extreme Entrepreneurs** zero-equity and zero-cash program focused on early stage start-ups. Program engages 8-10 start-ups each year while providing certain benefits to Top 40 applicants.

SEQUOIA 🖳

Launched **Surge** accelerator program for India and South Asia. Program invests up to \$2Mn in each start-up and encourages co-investment.

Primary drivers:

- Provides an opportunity to take position in start-ups early-on, potentially leading to better returns
- Allows investor to solve for "opportunity cost"
- Tap into opportunity available due to reduction in angel investors
- Allows for choice at later stages where the fund primarily operates
- Allows investor to create a moat around primary investment stage by offering tangible value

Deployment pressure for existing investors and proactive focus from global investors is expected to make ecosystem more competitive





Return of Angel Investors

With increase in early stage investments and overall improving rate of follow-on funding – angel investors are expected to return in 2020. These could be direct investments or through Angel Investment Funds – either way, the seed stage investments are expected to improve and become more competitive.

Increase in Fund of Fund

A new INR 20,000 Crore seed stage Fund of Funds announcement from Govt. of India is expected – this will make available capital for institutions to create more micro-VCs and VCs in the Indian ecosystem. To compete for quality start-ups – it is expected that investors focus on select thematic areas to offer deep capabilities and value beyond capital.



Ecosystem Arbitrage

Indian start-up ecosystem is more frugal compared to other geographies. This coupled with relatively lower valuations is becoming an attractive proposition for global investors to expand into new sectors / use-cases; and into newer geographies.



Increasing dry powder with institutional investors

As per SEBI, as on June 2019, Venture Capital Funds (category in Alternate Investment Funds) have raised commitments of INR 21,000+ Crores with INR 7000+ Crores raised. This is 50X growth compared to cumulative net figures released for Jun 2014. Coupled with overseas VC, PE and Corporate investors – Indian ecosystem will only become more competitive.

Intensifying corporate participation

10

Corporate participation in 2019 increased significantly with large enterprises investing, acquiring, and building commercial partnerships with start-ups. This is a reflection of their growing <u>confidence in Indian start-up ecosystem</u>.

Corporate participation is important as it enables both revenue and exit opportunities for start-ups. Both are critical for the ecosystem to grow sustainably.

Given the relative low participation compared to other ecosystems, and ever increasing market pressure – corporate participation is expected to stay strong.

Corporates are using multiple approaches to engage with Indian startups



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Corporates are actively participating in equity funding rounds



- On an average corporate investors tend to participate in 1-2 deals each year
- This leads to churn in the active investors each year however, this cannot be construed as lack of interest
- Corporate Venture Capital companies are an exception, with consistent participation in 3-4 deals each year on an average
- \$10-50Mn round sizes are preferred by majority of the corporate investors

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Corporate participation in M&A is steady

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2018
(Jan to Aug)2019
(Jan to Aug)36 M&A deals35 M&A deals

- The share of Indian corporates in total deals has increased in 2019 primarily due to active participation by Reliance Industries
- Number of unique corporates, across all M&A transactions, decreased marginally, from 35 in 2018 (Jan to Aug) to 31 in 2019 (Jan to Aug)

Note: analysis of deals involving start-ups founded in 2009-19

Acquisitions are driven primarily to build technology capabilities

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Corporates are taking initiatives for open innovation to capture extrinsic value of a start-up

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- Corporates are leveraging start-ups to solve business challenges to deliver revenue growth, cost savings, and/or improve customer experience
- Corporates are increasingly building structured programs to build repeatable and replicable processes to collaborate, at scale



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.



Number of Active Open Innovation programs run by corporate R&D centers in India



Number of industry verticals across which corporates are collaborating with startups Of all corporates are Global MNCs with R&D centers in India

60%

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-ofconcepts and/or on integrations to determine on long term engagement.



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 complimentary solutions in exchange for a financial commitment.

Corporates are already registering success stories via structured collaboration programs





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Willingness to leverage multiple collaboration models and consistent market pressures are expected to sustain the trend





Relatively low Corporate Engagement Compared to other Ecosystems

Participation of Global and Indian Fortune 500 corporates in the Indian start-up ecosystem is lower than other ecosystems. While the gap is reducing there is a sufficient headroom for corporates already engaging with start-ups globally to become active in India as well.

Continuously increasing market pressures for corporates

Public markets continue to demand growth. The pressure is not expected to reduce anytime soon. Corporates, in need to protect existing turfs and identify new growth opportunities have to look at start-up ecosystem for solutions. With increasing number of success stories it is expected that corporate participation will continue to intensify.

Increasing willingness to leverage multiple collaboration models



Corporates are increasingly engaging with start-ups beyond acquisitions and investments. They are entering into exchange and strategic partnerships with start-ups to find solutions and drive innovation, while helping them with various corporate specific resources. This willingness to execute open innovation initiatives is expected to create more revenue and growth opportunities for everyone.

Ecosystem Arbitrage



Indian start-up ecosystem is more frugal compared to other geographies. This coupled with relatively lower valuations is becoming a attractive proposition for global investors to expand into new sectors / use-cases; and into newer geographies.

Start-up ecosystem is expected to grow rapidly

Outlook 2025 for the Indian start-up ecosystem





Note: (1) Analysis of companies founded between 2009-14. Estimated numbers as on Dec 2014. Includes Flipkart in Unicorns. (2) Analysis of companies founded between 2009-25 (3) Calculated based on analysis of all funded and 500 unfunded start-ups. Valuation Est. is based on data model (4) Calculated based on DPIIT model with adjustment for outliers witnessing strong growth (5) For Unicorns, start-ups founded in or after 2000 are considered. (6). Analysis of companies founded between 2009-19

Proactive measures would allow us to accelerate, and derisk, the growth





Provide structures institution support for early stage start-ups to tap into global markets

Challenge:

- India is emerging as a hub for start-ups building B2B and B2B2C solutions with Software-as-a-Service business model
- Overseas markets provide a better premium for the services however due to limited availability of funds it is difficult for start-ups to aggressively tap into these markets

Illustrative Examples:

- JETRO, Japan's premier investment agency, operates Global Acceleration Hub in 12 countries to provide a launchpad for Japanese start-ups to tap into overseas markets including India, Europe, and North America
- Austrade, has built Launching Pads in five countries for Australian start-ups to generate cross-border revenue



Challenge:

- While the current policy provides an equal platform to start-ups across sectors vis-à-vis the experienced entrepreneurs/companies in public procurement, the process is long drawn and cumbersome
- For a start-up, pace of growth is the most critical metric and time long cycles discourage participation

Illustrative Examples:

- Govt. of UK is working towards building a 'single market' for procurement from start-ups across all Government and public bodies.
 G-Cloud is a catalogue service that enables government buyers to purchase cloud-based IT services
- City government of Philadelphia has set-up FastFWD program for buying solutions from start-ups
- City government of Barcelona has taken a use case based challenge approach to fast track procurement from start-ups





Create seed stage co-investment fund for angel groups

Challenge:

• Angel investors are a critical part of ecosystem flywheel for they provide risk-capital, experience and expertise at very early stage founders. Current structure of Fund of Funds, while valuable, is heavily titled towards institutional investors. To encourage participation of individual investors it is important take innovative measures beyond tax concessions.

Illustrative Examples:

- UK's Angel CoFund was set-up with GBP 100Mn corpus was set-up in 2011 to specifically invest alongside angel investors. Followed by London Co-investment Fund in early 2015 with a corpus of GBP 25Mn.
- Govt. of the Hong Kong SAR's Innovation and Technology Venture Fund with a corpus of \$2Bn is working with 6 approved venture capital funds designated as "Co-Investment Partner" to reduce deployment time and cost



Bring focus on capability over capacity in accelerators and incubators

Challenge:

- India has 335+ active accelerators and incubators with capacity to support 5000+ start-ups annually
- Numbers are set to expand to 450+ by 2025 with policy support from Central and State Government agencies
- However, till date, no unicorn emerged from these programs and neither have they resulted in a major M&A or IPO

Illustrative Examples:

Govt. of Israel provides additional funding support to accelerators and incubators after a competitive bidding process with
proposal being measured on output metrics (like exits, follow-on funding, export revenue enabled) than input metrics (like number
of events)





Expand CSR guidelines to increase capital availability and pace of deployment

Challenge:

- Current guidelines allow deployment of CSR funds only to technology and business incubators in an public institution.
- However, high majority of these programs have either no or poor success metrics. At the same time, private / industry backed programs have to spend more time on fund raising than on nurturing start-ups.

Illustrative Examples:

- Govt. of UK, Seed Enterprise Investment Scheme (SEIS) provides tax relief by allowing 50% of invested amount against income tax liabilities
- Govt. of Australia, allows investors a 20% non-refundable carry-forward tax offset for investments into start-ups



Encourage set-up of corporate innovation labs

Challenge:

- As an ecosystem, India is still viewed as a nascent ecosystem compared to Israel, US, and China; in some cases Europe
- Simultaneously, the ecosystem would not grow at high velocity if the corporate participation is low
- Corporate participation is needed to create revenue and exit opportunities for start-ups

Illustrative Examples:

- Innovation Labs Program, under Israel Innovation Authority (IIA), encourages open innovation by providing financial and nonfinancial support to corporates to build business aligned programs
- IIA provides direct funding support to start-ups; but doesn't require the entrepreneur to establish a company until and unless they require funding support (allows internal teams to participate)





Build industry-specific world-class innovation clusters

Challenge:

- Israel is known as a cybersecurity hub, United Kingdom like Singapore is emerging as financial services hub-these hubs are attracting start-ups, corporates, investors and ecosystem enablers from all over the world to set-up their presence
- India, in spite of its market size and talent, is not known as a specialist for any industry

Illustrative Examples:

- Beyond providing schemes similar to Start-up India, the Govt. of Singapore has taken firm policy measures through its institutions like Monetary Authority of Singapore to build favorable policy environment for financial services start-ups
- Govt. of Canada is investing up to \$950M to support business-led Innovation Superclusters in Protein, Digital Technology, Advanced Manufacturing, and Ocean industries



Build industry-specific physical and digital sandboxes

Challenge:

- In critical and regulated industries like transportation, financial services, healthcare, smart cities it is critical for a start-up to have access to right building blocks and controlled environment to rapidly deploy, test and iterate solutions
- These controlled environments, in form of digital data sandbox or physical smart cities sandbox, are needed for India to attract smartest entrepreneurs to solve large, underserved and core challenges

Illustrative Examples:

 In 2014, Singapore set-up Smart Nation Program Office to drive policy change and technology adoption for variety of challenges faced by the city nation. Cornerstone of Singapore's success as a smart city is in its ability to create digital, policy and physical sandboxes to test new technologies in real-world conditions

Note for Reader

Methodology



This report has been co-developed by **NASSCOM** and **ZINNOV MANAGEMENT CONSULTING** through a comprehensive three-month study to understand the Technology Product & Digital 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 start-up



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



Note: This report is based on analysis for companies founded between 2014-19, calendar year 2019 (Jan-Aug), calendar year 2018 (Jan-Aug), until and unless specified otherwise.

Definition of Industry Verticals



Enterprise	B2B Enterprise Product companies targeting Horizontal solutions for Large Enterprises / SMBs E.g. Data Analytics/AI/ML Platforms, Development Platforms, Productivity Applications, Customer Services, Big Data/Cloud/Security Infrastructure, etc.	Fintech	Enables financial services, banking and insurance through technology E.g. Online Banks, Financial Management Apps, Payment Management Platforms, Crowdfunding Platforms, Lending Marketplace, Money Transfer Platform, Expense Management, etc.
Healthtech	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.
Human Resource	Tech-enabled companies supporting Human Resources Activities E.g. Applicant Tracking systems, HR Management System, Candidate Assistance & Sourcing, Corporate Training, Recruitment Marketplaces etc.	Travel & 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 & 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 & Retailtech	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, Grocery & Home essentials, Home Services, Coupons, etc.

Definition of Industry Verticals



Enterprise	B2B Enterprise Product companies targeting Horizontal solutions for Large Enterprises / SMBs E.g. Data Analytics/AI/ML Platforms, Development Platforms, Productivity Applications, Customer Services, Big Data/Cloud/Security Infrastructure, etc.	Fintech	Enables financial services, banking and insurance through technology E.g. Online Banks, Financial Management Apps, Payment Management Platforms, Crowdfunding Platforms, Lending Marketplace, Money Transfer Platform, Expense Management, etc.
Healthtech	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.
Human Resource	Tech-enabled companies supporting Human Resources Activities E.g. Applicant Tracking systems, HR Management System, Candidate Assistance & Sourcing, Corporate Training, Recruitment Marketplaces etc.	Travel & 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.
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Definition of Industry Verticals



Industrial & 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 & Foodtech	Tech-enabled companies supporting the Food & Food-tech industry E.g. Online Food Ordering, Restaurant Management Cloud Solutions, Food Discovery Platform
Media & 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 & 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 Goods Transportation Marketplace, etc.
Agritech	Start-ups engaged in tech enablement in the Agricultural Industry E.g. Field Surveillance, Precision Agritech, 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.
Aerospace & Defense	Tech-based companies supporting the Defence and 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 & 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 & Marketing	Provides direct advertising and marketing assistance through technology E.g. Content marketing, influential marketing, Push notifications etc.

Other Definitions



	Industry Sector Maturity
Mature Sectors	Sectors with a large unfunded and funded start-up base with high
Emerging Sectors	Sectors with a medium unfunded and funded start-up base with
Nascent Sectors	Sectors with a small start-up base and hence relatively lower in



