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Digital Karnataka

Next Steps











BENGALURU SILICON VALLEY OF INDIA

The city of Bengaluru has come a long way in becoming one of the most recognized cities in the world

Known as the **Silicon Valley of India** due to its position as the nation's leading IT exporter.

- ✓ 4th largest technology cluster in the World
- ✓ 12500+ expats in living in Bengaluru currently (estimates based on Foreigner's Registration Office),
- ✓ 7% of expatriate population (approx.) in India is in Bengaluru
- ✓ 107 languages are spoken in Bengaluru, which makes the city top the list of cities where the most number of languages are spoken in the country
- ✓ **#13** among the top 25 global cities of the future.
- Bengaluru has the highest employability rate in India, wherein Bengaluru is the first \checkmark choice for women in employability.
- ✓ **33%** of India's tech talent are in Bengaluru



Factors favouring Bengaluru



Silicon Valley of India



Salubrious weather



Affordability



Options for recreation

Testimonials on Bengaluru

"We considered Finland & Canada before settling in Bengaluru. People here have hunger to learn. - Joseph Kim, Lila Games (Expat)

"Local people are very friendly and welcoming towards new entrants. Bengaluru is diversified as different cultures get integrated"

- Lucy, Writer

"Venture capital scene in Bengaluru is strong, and continues to grow. The city is home to a vibrant startup ecosystem & large pool of skilled professionals"

- Elio Assuncao, Founder, VC World summit

"Foreigners can enjoy a good standard of living in this city as the city has a variety of options for everyone" - Internations, Global network for expatriates



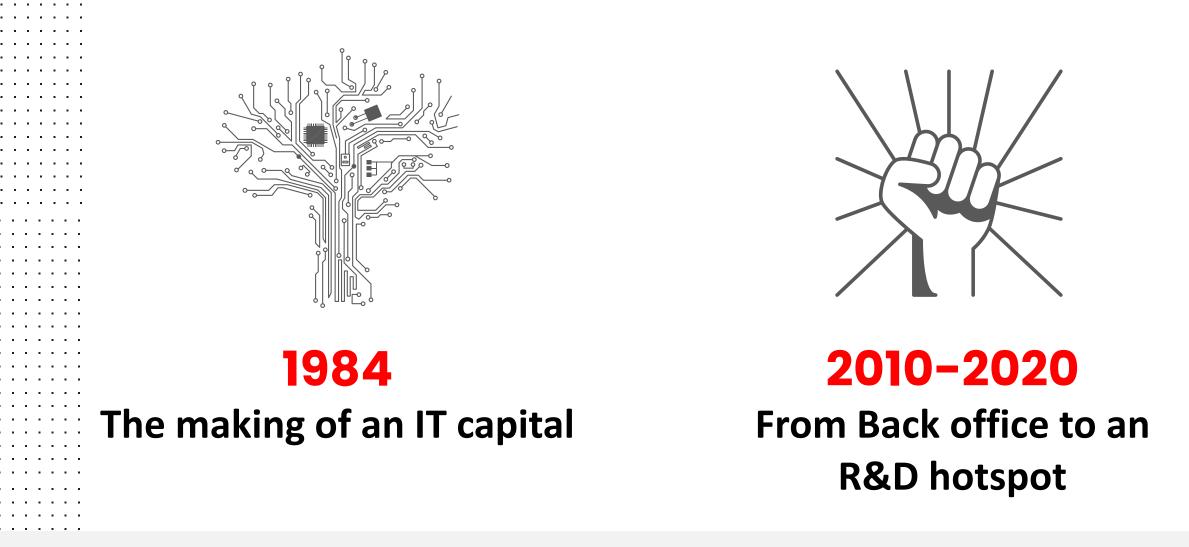


R&D capital of India

Emerging VC ecosystem

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The city of Bengaluru has come a long way in becoming one of the most recognized cities in the world

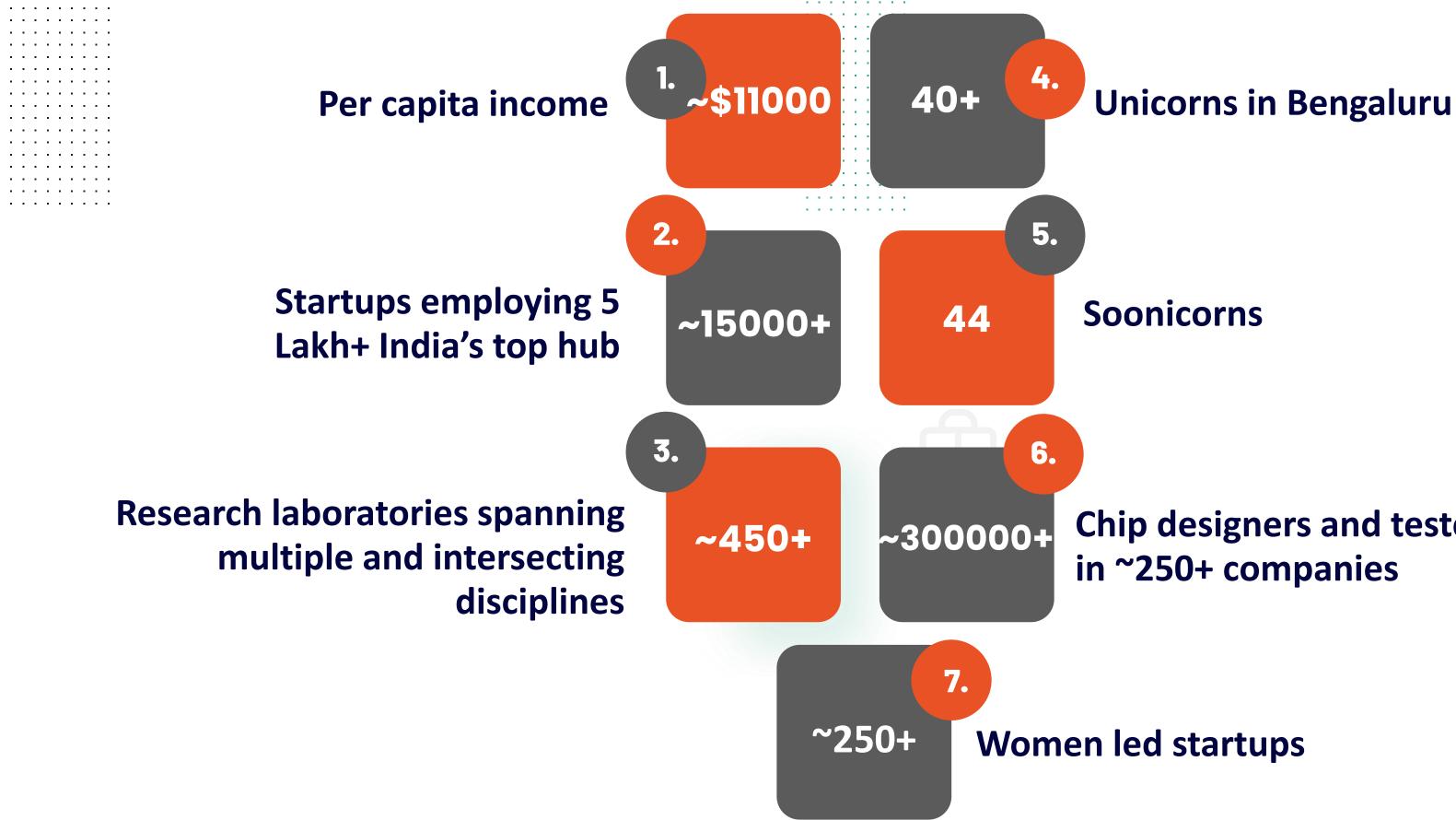


While Bengaluru itself has successfully emerged as the startup capital of India, its success has not resulted in other cities in the state developing into homes for tech startups wherein the regulatory push in creating corporate/university tie-ups and giving platforms for entrepreneurs from tier 2 & 3 cities will be critical in ensuring development of new ecosystems.





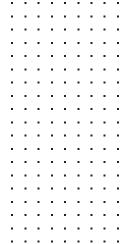
Bengaluru: India's technology and innovation capital currently stands at...







Chip designers and testers



BLR, India's leading state for space research & applications, has a strong existing space ecosystem with ISRO and multiple upcoming space startups



Karnataka has a rich history of being at the forefront of space Innovation

- ISRO, Indian Space Research Organization, setup in Bangalore in 1969
- Aryabhatta, India's 1st satellite, assembled in Bangalore in 1970s
- Antrix Corporation, commercial arm of ISRO setup in Bangalore in 1992
- Chandrayaan (2008) & Mangalyaan (2013) driven from the state



ISRO, India's national space agency is headquartered in Bangalore

- ISRO Satellite Center in B'lore- Lead center for building satellites and developing satellite tech
- ISTRAC¹ Center in B'lore provides tracking support for all satellite & launch missions
- Master Control Facility in Hassan monitors all geostationary satellites of ISRO
- Gaganyaan (Crewed spacecraft), Chandrayaan-3 (Lunar lander, rover) being driven from Bangalore





Multiple startups further driving space innovation



Internet access from space using own constellation of satellites in LEO



Mfg. high quality nanotubes for space applications



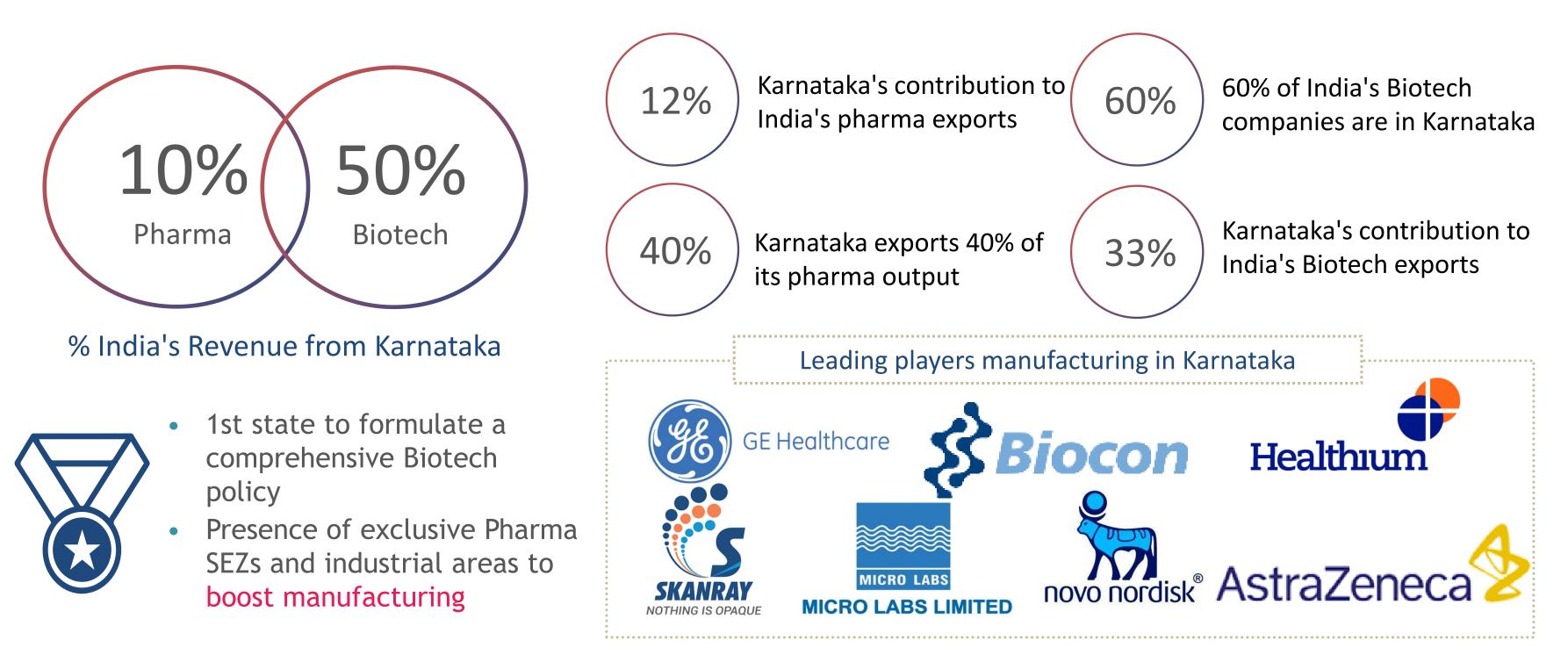
Building world's most adv. earth imaging satellite constellation



Designing and building lander for NASA's next lunar mission

Bangalore has a strong biotech & pharma ecosystem; Several global leaders already manufacturing in the state

Karnataka is a significant contributor to India's Pharmaceutical and Biotech revenues and exports





Bangalore is among top 3 global Aerospace cities in attracting foreign investments



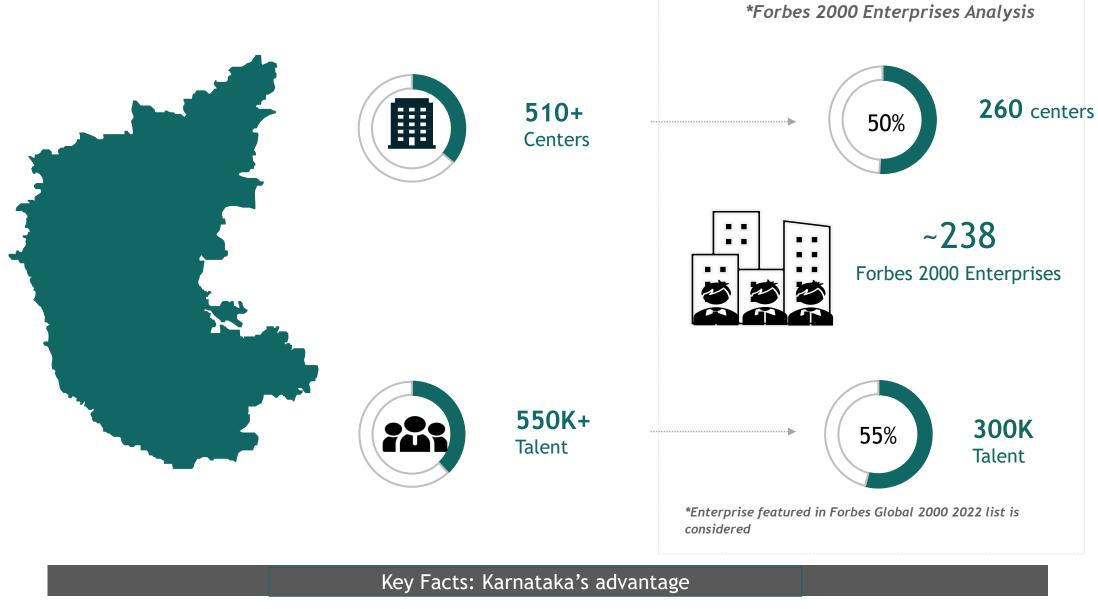
Aerospace cities of the future ranking by FDI intelligence

Rank	Location	Country
1	Singapore	Singapore
2	Dubai	UAE
3	Bangalore	India
4	Shanghai	China
5	Paris	France
6	London	UK
7	Prestwick	UK
8	Dublin	Ireland
9	Mexicali	Mexico
10	Queretaro	Mexico



Bangalore - India's Leading GCC Destination

Global MNCs with Centers in Karnataka







.

Bangalore – Home to ~60% of Forbes Global 2000 in India





- ITPL
- ITBP
- Bagmane Tech Park
- Embassy Tech Village
- Prestige Tech Park
- RMZ Ecoworld
- Global Technology Village

IT PARKS IN BENGALURU

Electronic City

SOCIAL INFRASTRUCTURE AT BENGALURU

Schools

- The International School Bangalore (TISB)
- Mallya Aditi International School
- Greenwood High International School
- Inventure Academy
- Indus International School

Malls

- Phoenix Market city Bengaluru
- Orion Mall
- Forum Mall, Koramangala
- Mantri Square Mall
- UB City

Transportation

- Roadways
- Railways
- Metro
- Taxis and cabs
- Airport

Hospitals

- Manipal Hospital (Old Airport Road)
- Apollo Hospital (Bannerghatta Road)
- HCG Cancer Centre
- Fortis Hospital
- Sakra World Hospital
- Hosmat Hospital
- Aster Hospital
- Narayana Hrudayalaya
- Jayadeva Hospital
- KIMSc

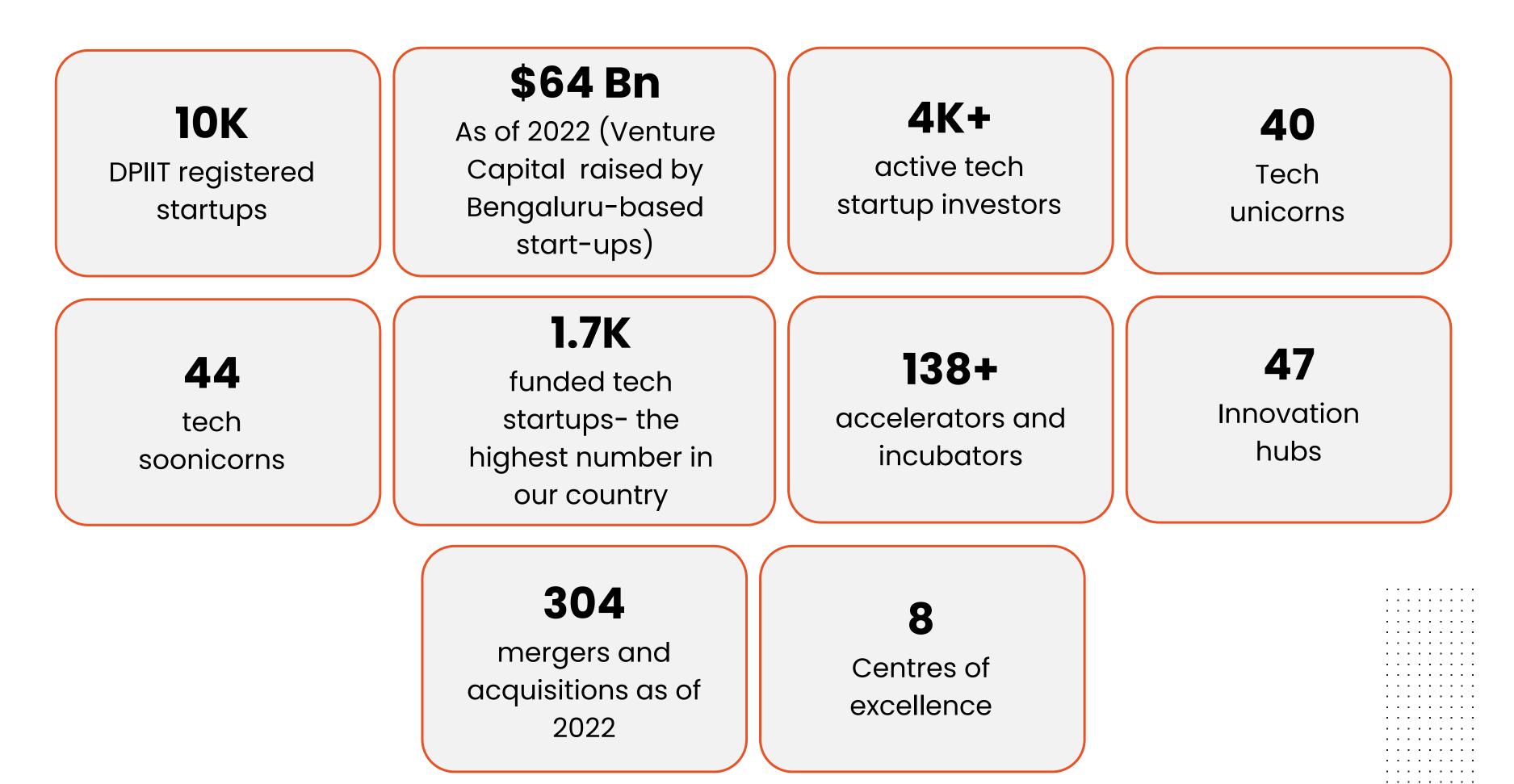




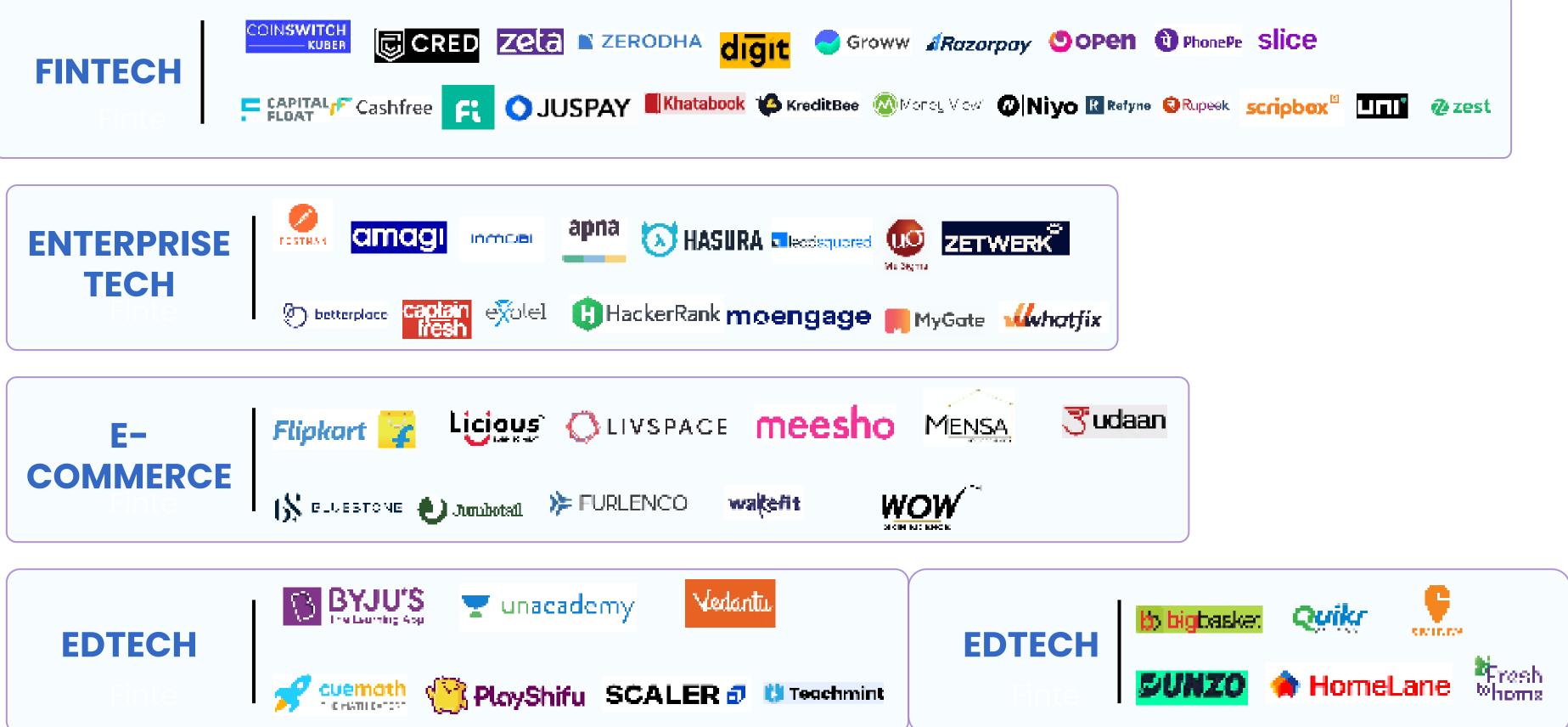


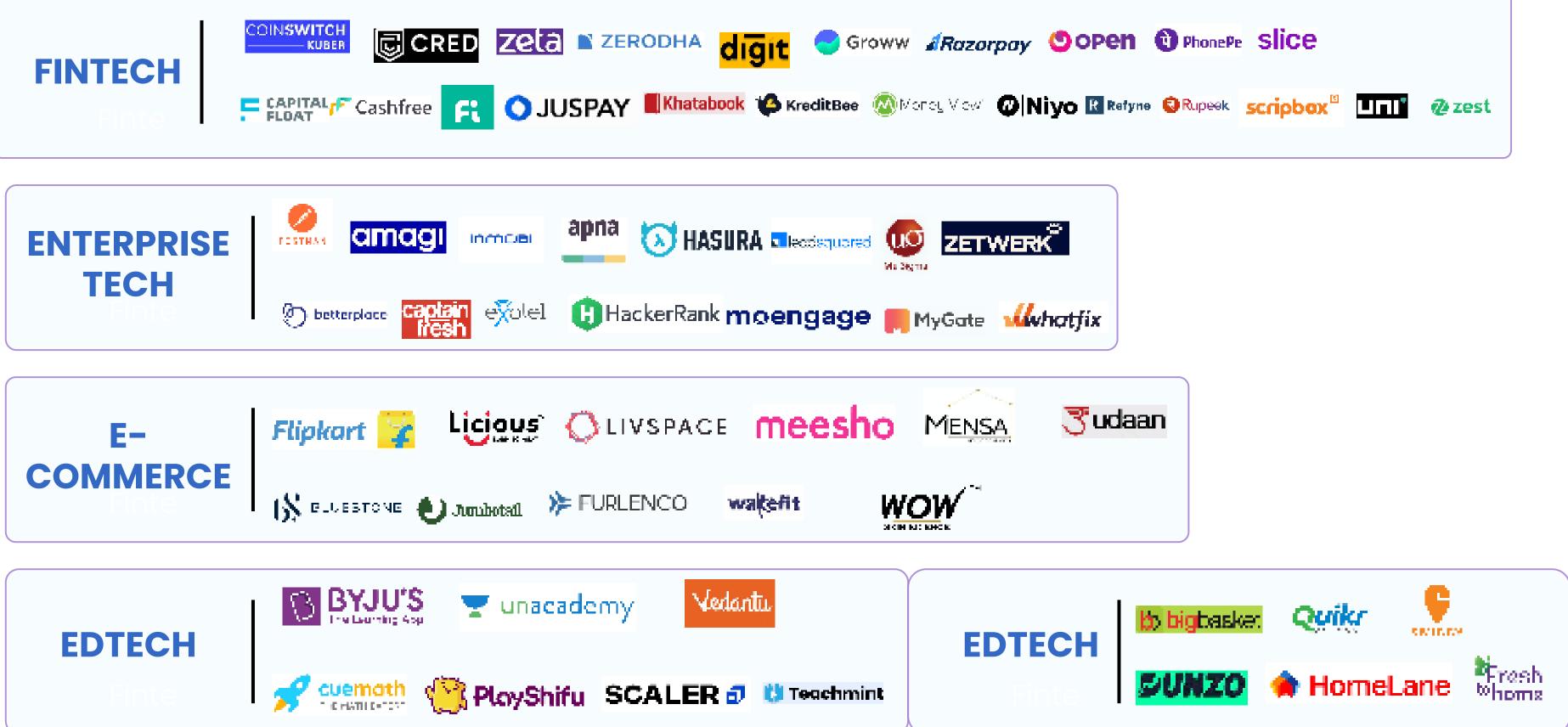


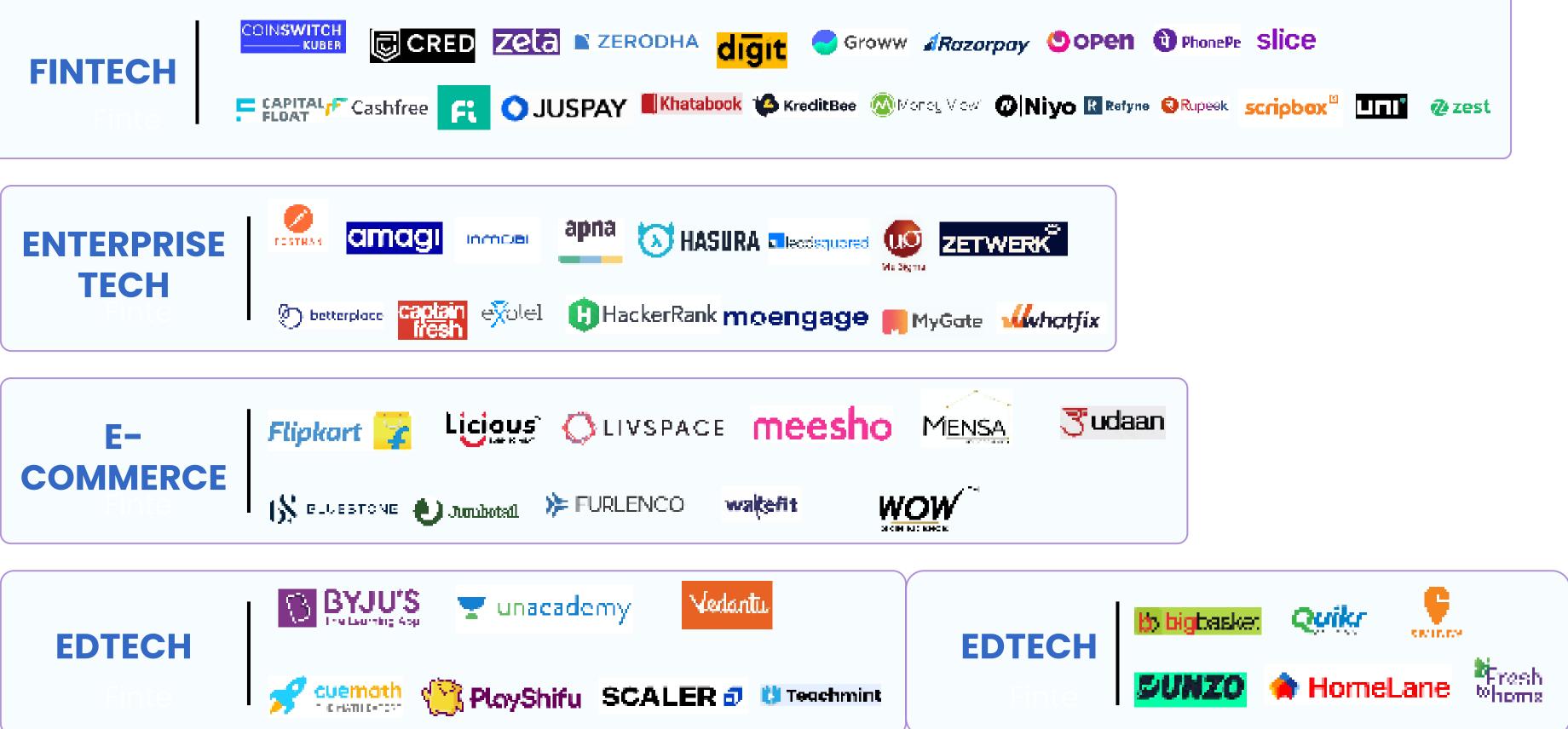
KARNATAKA'S STARTUP STORY IN NUMBERS



SECTOR-WISE LANDSCAPE OF UNICORNS AND SOONICORNS IN BENGALURU







SECTOR-WISE LANDSCAPE OF UNICORNS AND SOONICORNS IN BENGALURU



	Unicorns (40 in number)
re Chat	Top-Sectors • 10 Fintech • 8 Enterprise tech • 7 E-commerce \$170 Bn+ combined valuation \$49 Bn+ combined capital raised
	Soonicorns (44 in number)
	Top-Sectors • 15 Fintech • 7 Enterprisetech • 4 Ecommerce

\$16 Bn+ combined valuation\$7 Bn+ combined capital raised



Mission Beyond Bengaluru

Beyond Bengaluru





SNOO-AREA

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COMP

Mysuru Cluster ESDM & Cybersecurity

Mangalore Cluster FinTech





Fintech, IT/ITES, AVGC, ESDM, Cyber Security, Agritech, AI/ML, Manufacturing, Food processing, Chemical, Banking, Electronics, BioTechnology, HR, EdTech





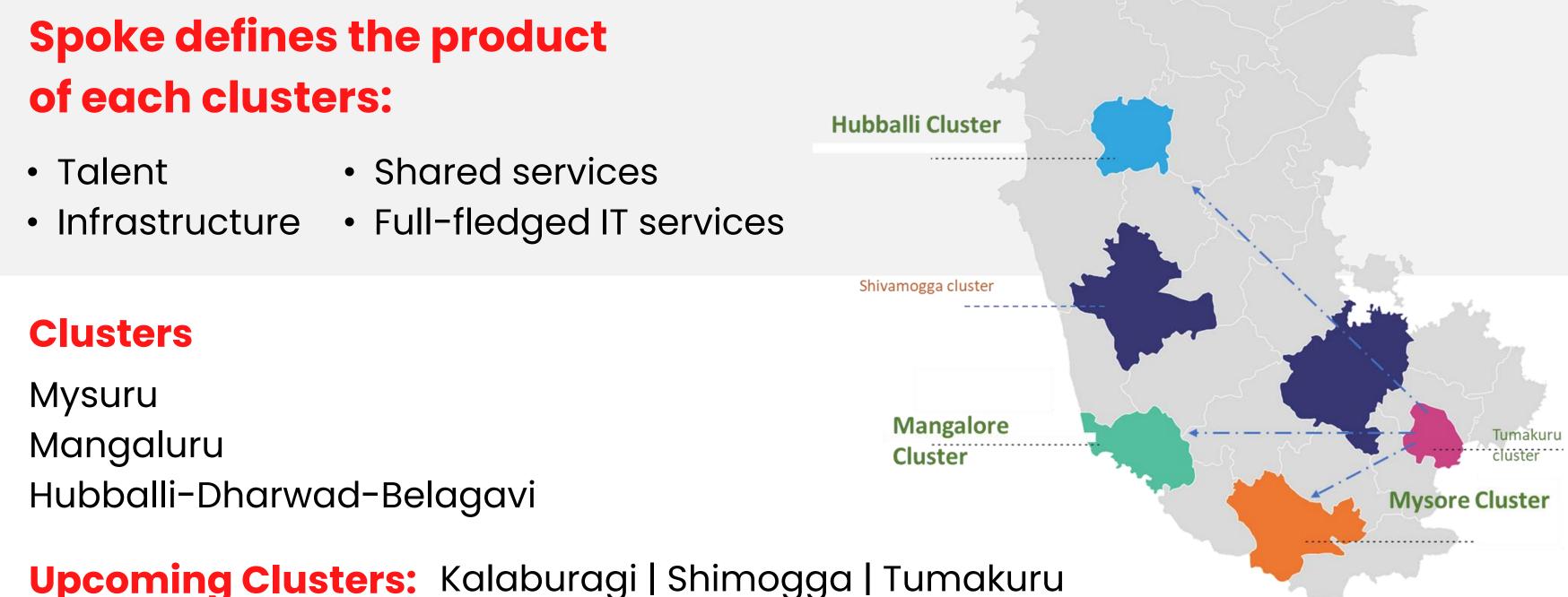


HDB Cluster Edu & AgriTech



Spoke-shore strategy

Any metro city within India or outside India can be as the hub location and clusters can become the spokes.





alburgi cluster

IT Policy 2020-2025



Incentives under updated IT policy

Financial support of up to 20% of Fixed Investment for Infrastructure

Financial support of up to 33% of the Fixed Investment for Infrastructure

Reimbursement at the rate of INR 10/- per sq. ft

IT/ ITeS Entities shall be entitled to an exemption of 75% in Mysuru, Hubballi, Dharwad and Mangaluru,

Reimbursement of PF/ESI for all IT/ITeS entities outside Zone 3, at the rate of INR 2000 per employee per month for 2

30% of actual cost incurred including travel for international marketing

Up to INR 2 lakh for domestic patents and up to INR 10 lakhs for international patents.





50% reimbursement of cost of quality certification

30% of actual cost incurred including travel for international marketing

R&D projects : up to a maximum of 33% of the total project R&D cost, or up to INR 1 crore, whichever is lower

Govt. of Karnataka provides special package of incentives for setting up Semiconductor / OSAT unit as per the new ESDM incentives package

PRE OPER	POST OPERATIO	
Capital Investment Subsidy	25% subsidy on land1	Production Linked Incentive (PLI)
25% subsidy on land1	20% subsidy on plant & machinery	1% of annual turnover for 5 years
20% subsidy on plant & machinery	20% subsidy on plant & machinery	

DNS SETUP2

INR 1 per unit Power tariff subsidy for 5 years

100% exemption from electricity duty

Additional incentives

can be considered for big projects for setting up Semicon / OSAT unit

- Land at subsidized rates
- Built-to-suit, plug & play facilities
- ...and more

E-R&D policy recently launched by Karnataka provides multiple incentives for R&D centers

Wide range of incentives provided under new E-Re

Establishment / Expansion of MNC E-R&D Operations ¹	Fund to support Tech. innovation	Prototyping & Testing infrastructure ¹	Innovation labs ¹	Digital Innovation for services/social challenges
 For Engineering R&D entities (GCC): Rental reimbursement: 50% of rent (up to Rs. 2 Cr. or Rs. 1666 per employee) Recruitment assistance: Up to Rs. 20 lakhs 	For Engineering R&D entities (GCC & ESPs): • Grant of 40% of approved R&D expenditure up to Rs. 8 Cr. per entity	For implementing agencies (KDM): • 40% of approved budget up to Rs. 50 Cr. per entity	For Engineering R&D entities (GCC & ESPs): • Grant of 33% of approved innovation labs budget up to Rs. 8 Cr. per entity	For Engineering R&D entities (GCC & ESPs) & startups: • Funding of 80% of approved project budget up to Rs. 3 Cr. per entity
Investment subsidy:	Additional support provid	led:		

- To implementing agency (KDM) for evangelizing E-R&D capability by setting up Go & See centers as well for hosting/participating in R&D events (up to Rs. 50 lakhs)
 - To Engineering R&D entities (GCC & ESPs) for internship program: Reimbursement of 50% of intern stipend for 3 months up to Rs. 10,000 per intern per month

Note: Detailed applicable restrictions for each incentive category provided in the E-R&D policy; 1. For investment beyond Bengaluru Urban district

20% of investment

Cr.)

amount (up to Rs. 2



	&D	Po	licy
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BEYOND BENGALURU MISSION – A SUCCESS STORY

Hubballi-Dharwad-Belagavi

Mangaluru

			4
Accomp- lishments	400+ Startups; 80+ Funded startups; 65+ Trademarks registered; 4,500+ Jobs added; 90+ IPs file; 30%+ Women entrepreneurs; 5+ acquisitions worth INR 1,500 Cr	200+ Startups; 3,000 Top skills-Finance & Accounting; 5,000 HR & Knowledge Services; 6,000 QA, Testing & IMS 10,000 Application Development & Maintenance (IT); 7,000 Software Products	240+ Startups 8,000 in Finance & Accounting skills; 11,000 HR & Knowledge Services; 11000 QA, Testing & IMS; 19,000 Application Development & Maintenance (IT); 13,000 Software Products
Notable Investors	Stakeboat Capital, Y Combinator, Sandbox Startups, Rebel Foods, Prime Venture Partners, Indian Angel Network	CIIE.CO, Riidl.org, IndiaRF.com	Ascent Capital, Startup India, JITO Angel Network
Primary Sectors	Foundry, Automobile, SaaS, Edtech, Agritech, Al/Data Science	Fintech, IT	ESDM, Cybersecurity, Enterprise Services,
Notable Startups	Docketrun,Labinapp,Careerboat, Vayavyalabs, Ecomjetco, Cautomate	DiyaSystems, Novigo Solutions, Semnox Solutions, Codecraft Technologies	Skanray,_Sportiwe, S3V vascular Technologies
Other Initiatives	Cluster seed fund: INR 25 Cr Acceleration Network Kalyana Karnataka: EDP Women Elevate Elevate Beyond Bengaluru Startup Grid	End-to-end support for setting up an IT/ITeS entity Government subsidies: 10% through government subsidies	INR 223,305 Revenue (2019-20) 15 industry sectors 10+ renowned academic institutions 88,000 total available talent pool 30%+ women entrepreneurs 120+ startups onboarded 230 ESDM companies





Mysuru

Beyond Bengaluru



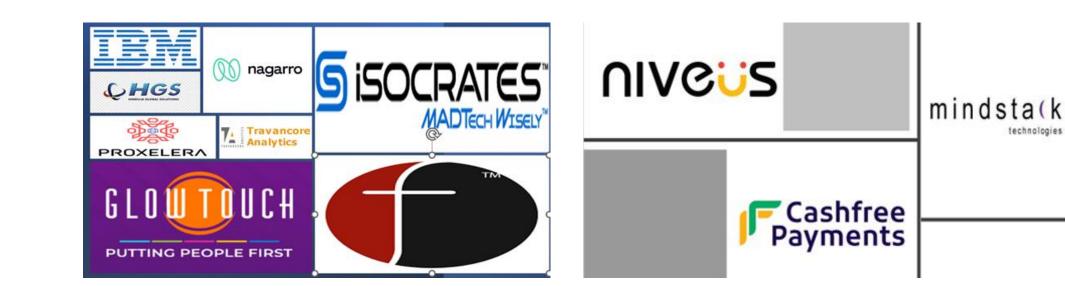




ADDITIONS

RECENT

Mysuru Cluster ESDM & Cybersecurity **Mangalore Cluster** FinTech



36+ Companies, Approx 15000 employment





HDB Cluster Edu & AgriTech



PRODUCT FOR EACH CLUSTER

Talent Costs

~25% more Cost-Efficient than Bengaluru Government subsidies

10% through government subsidies

Hiring Cost

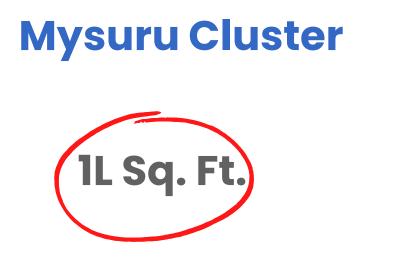
- Lower cost to hiring - Access to talent Infrastructure Costs

~46% more Cost-Efficient than Bengaluru



Overall Impact on P&L: 25-30%

Cluster focus Infrastructure

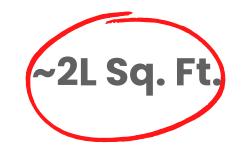


Plug & Play Infrastructure



Co-working Spaces





Global Technology Centre under construction

Mangalore Cluster



Plug & Play Infrastructure

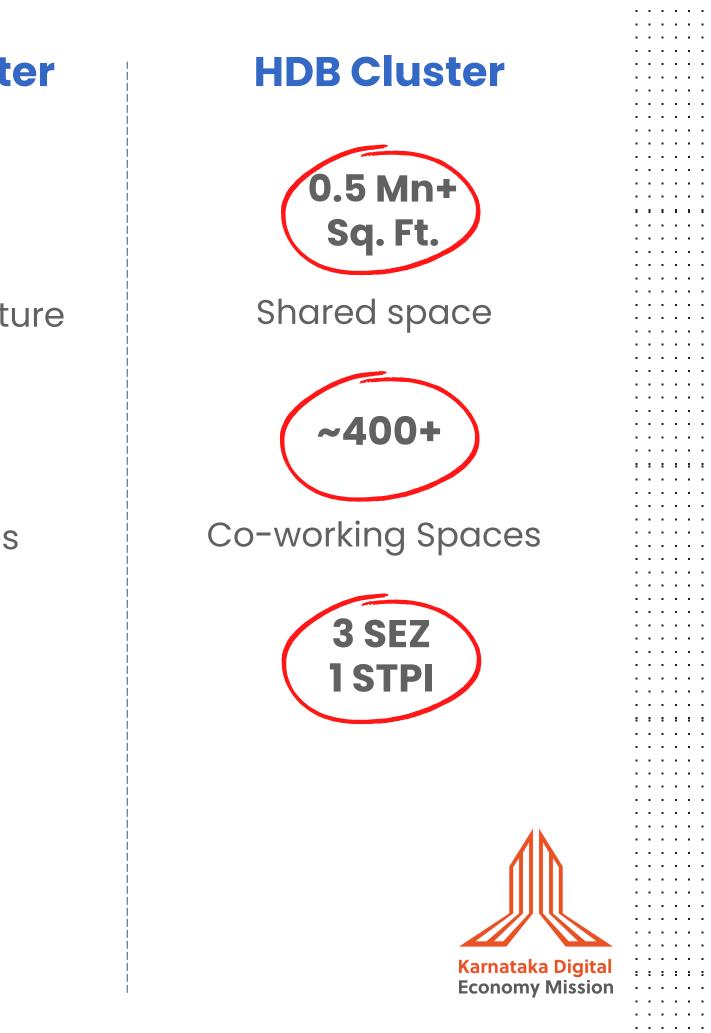


Co-working Spaces





IT Parks (about 3-4)



CLUSTER-WISE TALENT POOL

Mysuru

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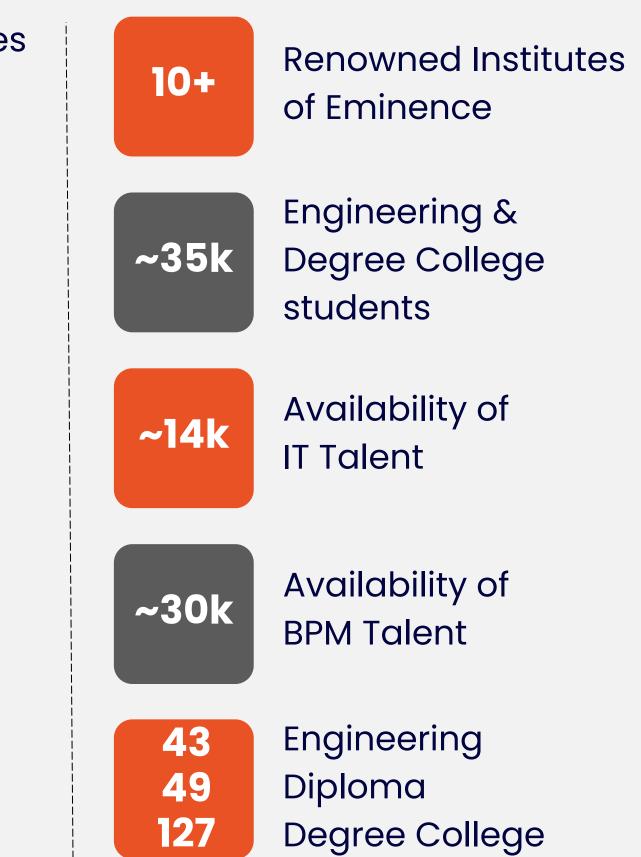
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Mangaluru

15+	Renowned Engineering Colleges	20+ 15+	Engineering Colleges Medical & Dental Collages
~40k	Engineering & Degree College students	~60k	Engineering & Degree College students
~30k	Availability of IT Talent	~12k	Availability of IT Talent
~25k	Availability of BPM Talent	~10k	Availability of BPM Talent
~19k	Application Dev. & Maintenance - Top Available IT Skill	~10k	Application Development & Maintenance





HDB

Man-	•	BM (300)
power hired in	• @	lowtouch (200)
last 18	• -	Socrates (50)
months	• +	IGS (50+)

- Niveus (600)
- Mindstack (25)
- Cashfree (25)
- Sacumen (25)



- IMerit (200)
- Five S (300)
- IonIdea (100)
- dhiomics (20), IMOS (20)

SOCIAL INFRASTRUCTURE AT MANGALURU CLUSTER

Physical infrastructure

- Mangaluru-well connected by air, rail, road & sea
- Active domestic & international airport
- One of the major sea port in Mangaluru
- 4.MRG Group, Prestige group and Brigade group. City Centre Mall, Nexus Fizaa Mall and Bharath Mall.
- 4 & 5-Star Hotels | Best-in-Class Standards
- Presence of premier Schools/Institutions /Engineering Colleges/Medical Colleges/Hospitals
- Mount Carmel Central School, Podar International School and Prestige International School etc.
- St Aloysius College, Canara college and Mangaluru University etc.
- Surf in the Arabian sea & Trek the western ghats.
- Ola and Uber operational
- Ocean Pearl, Goldfinch, BMS Hotel, Sea View by Swathi,
 - AJ Grand, Taj Gateway, Suraj International

Hospital infrastructure

- 8500+ Hospital Beds
- World class multi-specialty hospitals like
- Kasturba, Manipal group, Unity hospitals, AJ hospital & research center, Yenepoya specialty hospital







13



SOCIAL INFRASTRUCTURE AT MYSURU CLUSTER



Karnataka Digital Economy Mission

Physical infrastructure

- ~90 mins connectivity to Bengaluru 10 lanes highway connecting to Bengaluru
- Active domestic airport and upcoming international airport
- Railway junction with India-wide connectivity
- India's first wi-fi enabled city

Hospital infrastructure

- 3500+ Hospital Beds
- Government Medical College, JSS Medical College
- World-class multi-specialty private hospitals- JSS, Apollo, Columbia Asia, Narayana Hrudalaya
- Hospitality: 4 & 5-Star Hotels | Best-in-Class Standards & Facilities
- 6 Malls (Central, Garuda, Forum etc.)
- Best in class schools
- Premium Residential Complexes | Villas & Apartments
- 12 by Sobha, Brigade developers and others







SOCIAL INFRASTRUCTURE AT HDB CLUSTER

Physical infrastructure

- Hubballi Airport & Belagavi Airport is connected to many Indian cities
- Both the cities (Hubballi-Dharwad & Belagavi) well connected to pan India through rail

Hospital infrastructure

- 3500+ Hospital Beds
- World-class multi-specialty private hospitals-Karnataka Institute of Medical Sciences, SDM Medical College & hospital etc.
- Hospitality: 4 & 5-Star Hotels
- Best in class schools
- Premium Residential Complexes | Villas & Apartments



Karnataka Digital Economy Mission





BEYOND BENGALURU START-UP ECOSYSTEM

Mysuru



Startups supported by the Ecosystem

80+ 65+ 90+

Startups Funded Trademarks **IPs Filed**



Notable Investors

Ascent Capital, Startup India, JITO Angel Network

Mangaluru

200+

Engineering Colleges Medical & Dental Collages

Notable Investors CIIE.CO, riidl.org, indiarf.com

HDB



Renowned Institutes of Eminence

Notable Investors

Stakeboat Capital, Y Combinator, Sandbox Startups, Rebel Foods, Prime Venture Partners, Indian Angel Network





Women Entrepreneurs



Acquisitions worth INR 1500 Cr.

Types of domains

ESDM, Cybersecurity, Enterprise Services

Types of domains FinTech, IT/ITeS

Centers of Excellence FinTech, IT/ITeS

Types of domains

Agritech, Enterprise Services, AI/ML, Automotives, Foundry

BEYOND BENGALURU START-UP ECOSYSTEM

Mysuru

HOLOSUIT

HoloWorld is Mysuru based start-up on Skill MetaVerse Augmenting Humans and Robots is funded by cricketer Yuvraj Singh. It does business with 20+ countries and has represented the state of Karnataka in Indo-Israel start-up delegation

Mangaluru

ROBOSOFT

An Udupi based gaming company was acquired by a Japanese company, TechnoPro, for Rs 805 crore.

HDB

Sankalp Semiconductor of Hubballi Acquired by HCL

Saankhya Labs of Belagavi

Tejas Networks acquired 62.65% stake in Saankhya Labs for Rs 276.24 crore.





Unforeseen situations mitigated by cluster ecosystem

In the wake of COVID-19, business functions were not disrupted because of the support extended by the local administration to the smooth functioning of overall cluster operations.

- Law and order situation at the clusters have been excellent at the clusters
- Very low crime rates
- Healthcare infrastructure at cluster levels are good: successfully handled covid situations
- Vaccination drives for industry was conducted extensively by local administrations
- **Disaster Management Authority**



Advantage Beyond Bengaluru



Advantage for Employee & Employer(1/2)

Office Space Rental	Mysuru (in INR)	Mangaluru (in INR)	HDB (in INR)	Bengaluru (in INR)	Chennai (in INR)
Plug & Play	Approx. 70 /sq. ft	Approx. 62 /sq. ft	Approx. 60 /sq. ft	Approx. 90 /sq. ft	Approx. 80 /sq. ft
Bare-shell	Approx. 60 /sq. ft	Approx. 30 /sq. ft	Approx. 43 /sq. ft		
Co-working	Approx. 7K /Seat	Approx. 6K /Seat	Approx. 7K /Seat	Approx. 14K /Seat	Approx. 14K /Seat

Residential Cost of Apartments	Mysuru (in INR)	Mangaluru (in INR)	HDB (in INR)	Bengaluru (in INR)	Chennai (in INR)
2-3 BHK-outskirts	Approx. 15 K	Approx. 10K	Approx. 10K	Approx. 30K	Approx. 35K
2-3 BHK City Centre	Approx. 20 K	Approx. 15K	Approx. 15K	Approx. 35K	Approx. 40K
3 BHK	Approx. 25K	Approx. 20K	Approx. 20K	Approx. 45K	Approx. 50K

On an average, Office Cost in Beyond Bengaluru clusters is ~30-35% lower than Metros On an average, Residential Cost in Beyond Bengaluru clusters is ~40-45% lower than Metros





Economy Mission

Advantage – HR Cost (2/2)

Designation	Mysuru (in INR)	Mangaluru (in INR)	HDB (in INR)	Bengaluru (in INR)
Beginner (Associate Software Engineer to Senior Software Engineer)	Approx. 3 - 5 Lakh per annum	Approx. 2.5 - 5 Lakh per annum	Approx. 2.5 - 5 Lakh per annum	Approx. 6 - 8 Lakh per annum
Managerial positions (test lead/team lead/ technical lead)	Approx. 10 - 20 Lak per annum	Approx. 10 – 18 Lakh per annum	Approx. 10 – 18 Lakh per annum	Approx. 20 - 30 Lakh per annum
Senior Manager Roles	20 Lakh - 30 Lakh per annum	Approx. 20 – 30 Lakh per annum	Approx. 20 – 30 Lakh per annum	>35 Lakh per annum
AVP & VP	35 Lakh to 60 Lakh per annum	Approx. 30 – 50 Lakh per annum	Approx. 30 – 50 Lakh per annum	>50 Lakh per annum
Senior VP	60 Lakh to 70 Lakh per annum	Approx. 50+ Lakh per annum	Approx. 50+ Lakh per annum	1 Crore and above per annum

On an average, HR Cost in Beyond Bengaluru clusters is ~30-35% lower than Metros



Karnataka Digita **Economy Mission**

Benefit Use Case (simulation)

Assumption 1:

Number of seats- 100 | Area- 10000 sq. ft | Domain of company's operations: IT/ITeS

Assumption 2:

Approximation of some reimbursements / subsidies that a company may avail under GoK's IT policy

Benefit under IT Policy			
Incentive		Rate of Reimbursement (INR)	Total (INR)
Rent reimbursement	Area (sq. ft.): 10,000	10	1,00,000#
Quality Certification^			~150,000-200,000
Electricity subsidy			50,000-100,000
PF / ESI Reimbursement*	Resources: 1,000	2,000	20,00,000
Patent cost			India: 200,000 International: 10,00,000
# Rent reimbursement capped to INR 300,000			

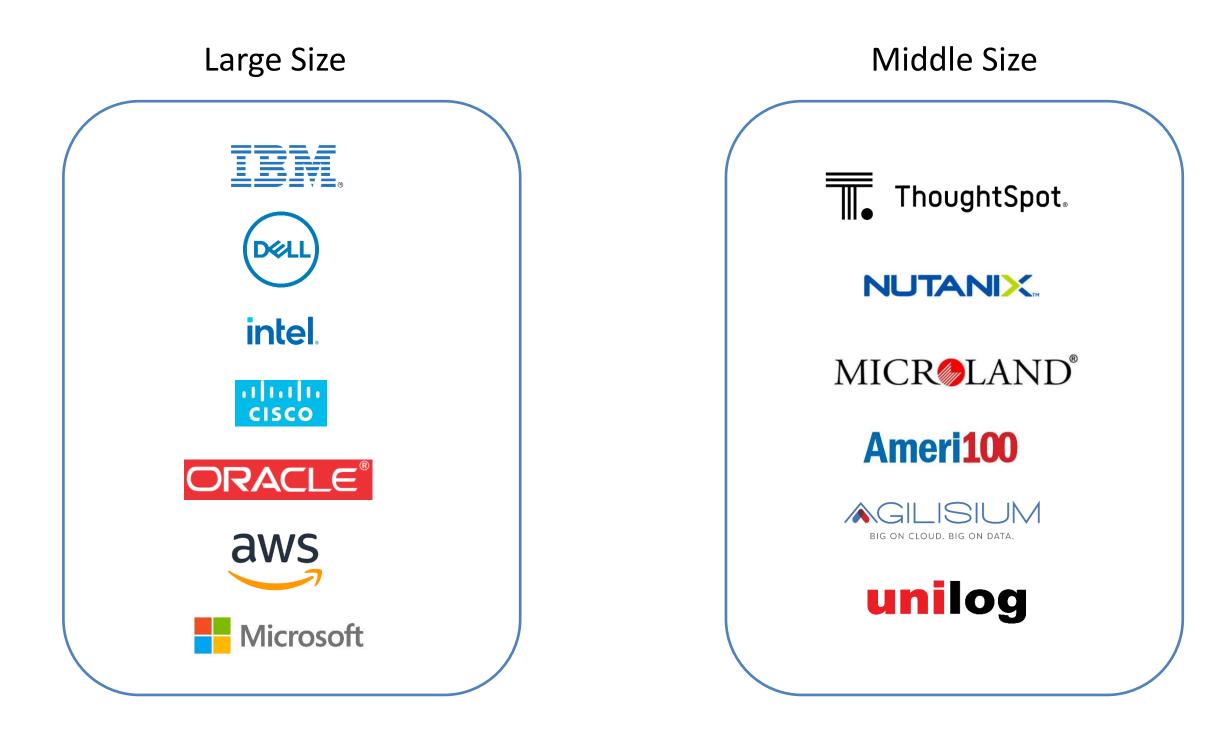
^ ISO certification cost is USD 3,000-5,000 (INR 225,000-375,000); reimbursement under policy capped to 50% of cost

* Maximum reimbursement INR 24,00,000 per company during policy period

Incentives that can get a cost reduction to the tune of INR 45,00,000



Few American companies successfully growing in Karnataka





Startups



Leverage us to be part of your growth journey

India Bangalore and...Beyond Jai Hind!



Karnataka Digital Economy Mission





KEONICS – K-WINGS, 27th Main Rd, 1st Sector, HSR Layout (behind HSR Police Station), Bengaluru





Karnataka Digital Economy Mission



Sanjeev Kumar Gupta CEO

sanjeev.gupta@karnatakadigital.in