

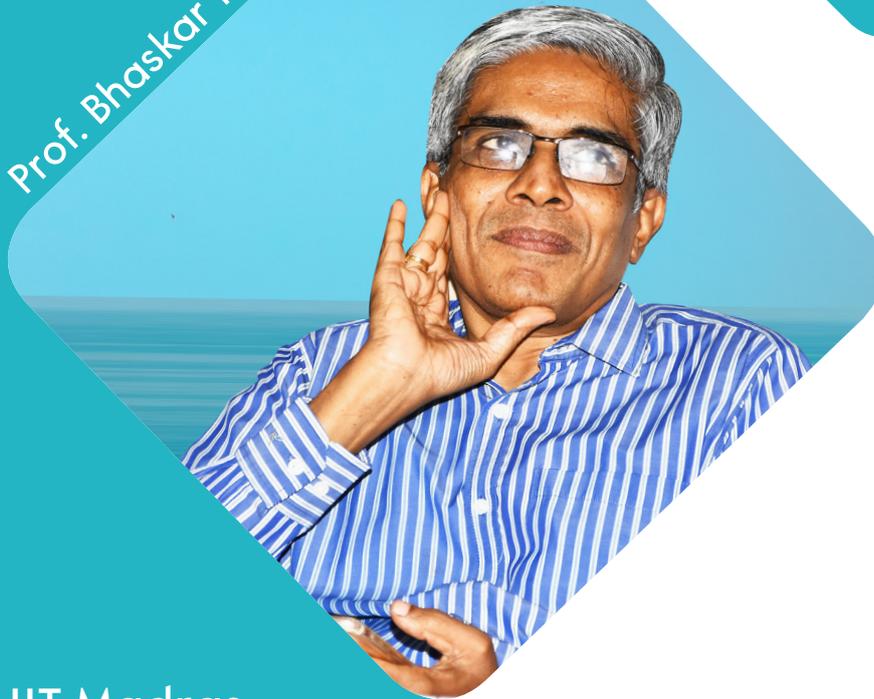
Shri N. Lakshmi Narayanan

Impact of Giving



Indian Institute of Technology Madras

Prof. Bhaskar Ramamurthi



## Director, IIT Madras

**Indian Institute of Technology Madras is among the foremost institutes of national importance in higher technological education and basic and applied research.** The Institute has sixteen academic departments and a few advanced research centers in various disciplines of engineering and pure sciences, with nearly 100 laboratories organized in a unique pattern of functioning. A faculty of international repute, a brilliant student community, excellent technical & supporting staff and an effective administration has all contributed to the pre-eminent status of IIT Madras. IIT Madras has been ranked as the "Best Educational Institution" in India, in the latest edition of National Institutional Ranking Framework (NIRF) 2019 of MHRD, Govt. of India. The Institute continues to be the "Best Engineering Institute" in the country for the fourth consecutive year. IIT Madras was awarded the prestigious Institute of Eminence (IoE) title on the 5th Sep 2019. IIT Madras has emerged as the No. 1 institution in the maiden edition of the Atal Ranking of Institutions on Innovation Achievements (ARIIA) 2019, MHRD, and Govt. of India. IIT Madras is a residential institute with a self-contained campus located in a beautiful wooded land of about 250 hectares. It has established itself as a premier center for teaching, research and industrial consultancy in the country.

"The institute will continue to focus on fundamental and translational research given the development imperative of the country and find solutions to the pressing problems facing society," said Professor Bhaskar Ramamurthi.

IIT Madras is also proud of its global alumni Diaspora and well-wishers, second to none in terms of its accomplishments.

## Dean, Alumni and Corporate Relations (A & CR)

**We want to start this ‘Impact of Giving’ with a heartfelt thanks to Shri N. Lakshmi Narayanan and his family.**

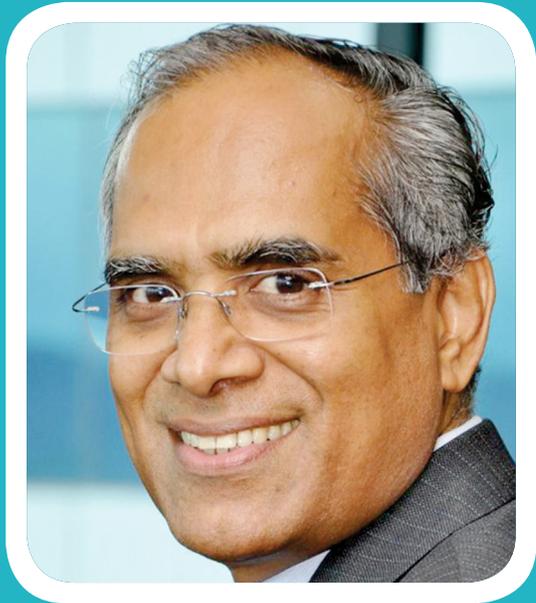
- ❖ A remarkable impact was created in the student’s lives, resulting from their continued generous contributions to the growth and development of IIT Madras.
- ❖ This institution aims to provide continued solutions to global societal problems.
- ❖ The solution to global societal problems is made possible by sustainable benevolent contributions from our alumni and well-wishers.



Prof. Mahesh Panchagnula

## Chairman, ICT Academy

- ❖ Shri N. Lakshmi Narayanan has been a great supporter and motivator for all the entrepreneurial activities in many places, including IIT Madras.
- ❖ A technology Industry professional, with a track record of building a large business, now focused on Corporate Governance, education and entrepreneurship development.
- ❖ Another critical area of his work is integrating Corporate Social Responsibility with the company operations for inclusive growth and high impact on communities served.



Shri N. Lakshmi Narayanan

Shri N. Lakshmi Narayanan completed his Master’s degree from the Indian Institute of Science, Bengaluru. He started his career in Tata Consultancy Services and became the Regional Head. From there, Shri N. Lakshmi Narayanan moved on to Cognizant Technology Solutions Corp., as President and Chief Operating Officer. He next climbed his corporate ladder to become the Chief Executive Officer and Director. Leading him to take over as the Vice-Chairman, and he continued in this position till June 2017.

In his inspiring words, 'My focus will be on start-ups' :



"I will focus more on start-ups. These are people with great ideas, they have the energy, but they need proper guidance to encourage them to think big, dream big and to focus on values, and on the ethics of doing business right from the beginning so that they don't have to compromise. If they focus on all this, even if they grow to become large firms, they will not have any challenges. People like us can provide a lot of help here: how to get funding, how they should develop for the long-term. "

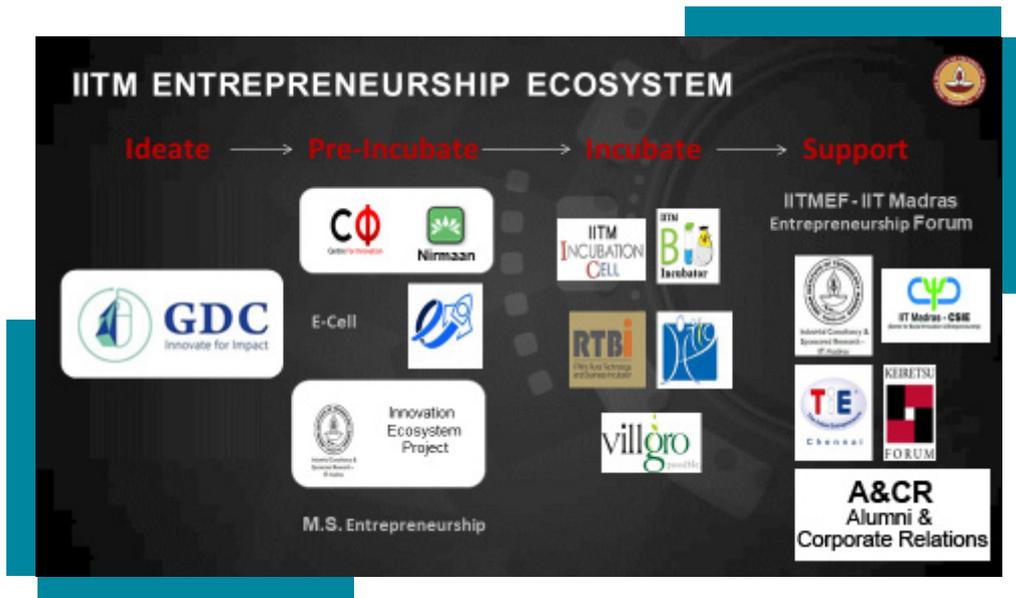
The word start-up is very close to his heart, and his contributions are testament to his keen interest in start-ups.



In Prime Minister's message given to IIT Madras on 17th July, 2019, He says: "If we are to reach the goal of a \$ 5 trillion economy, research, innovation and more importantly, the channelization of these into entrepreneurship is crucial."

Shri N. Lakshmi Narayanan's focus and his generous contributions to IIT Madras are also in line with the Institute's and the nation's focus. They are helping to fuel the spark within the students of IIT Madras, to start their start-ups.

## Glimpses of the Entrepreneurial activities at IIT Madras:



Of all the entrepreneurial activities at IIT Madras, let us take a closer look at NIRMAAN, Pre-incubation Cell of IIT Madras for which Shri N. Lakshmi Narayanan has provided his generous contributions.





## NIRMAAN – Translates to “Creation, Foundation, Construction, Making, Building, Structure, Formation”

Nirmaan at IIT Madras is the nursery of start-up dreams among our students and faculty. Setup over two years ago to enable creative projects to explore business potential, NIRMAAN helps committed teams validate their ideas, approach to market, leading to the establishment of a start-up company. It is a pre-incubator, where mental pictures mature towards incubation. The rich talent pool at IIT Madras serves as the fountain spring of ideas. The end goal of teams accepted into Nirmaan leads students into the Incubation Cell (IC) at IITM Research Park.

Nirmaan has facilitated over a dozen start-up ideas and nurtured them. They see more than 85 groups pass through the program. Some have been successfully set and raised over 1 Million USD to date. Currently, Nirmaan houses around 51 active projects across different cohorts. The project ideas spread over various business domains, including Edu-tech, agritech, consumer products, and advanced technology solutions.

View the web link to know more:



Shri N. Lakshmi Narayanan has supported many entrepreneurial ventures and start-ups including the Pre-incubation Cell of IIT Madras viz., NIRMAAN.

With his soulful interest for entrepreneurial ventures and start-ups, he has visited NIRMAAN and interacted with students of various teams which in turn gave more vibes mutually.



We will now take a vivid look at how his contributions to IIT Madras has helped many ideas to culminate as start-ups and touched many lives on campus.



Student : Mr. Sandeep Gangaram  
Program : M.S, Engineering Design  
Project : Kandy  
Mentor : Mr. S. Ravichandran



Student : Mr. Jubin V Jose  
Program : Ph.D, Mechanical Engineering  
Project : IRIS Controls  
Mentor : Mr. Bala Vaidyanathan



Student : Mr. Bhashwar Ghosh  
Program : B.Tech, Engineering Physics  
Project : QMICON  
Mentor : Mr. Viswanathan Balakrishnan



Student : Mr. Aditya Ranade  
Program : B.Tech, Civil Engineering  
Project : Compactech  
Mentor : Dr. Rajan Srikanth



Student : Ms. Meena Chockalingam  
Program : M.A, H.S.S  
Project : Yuvaneeti  
Mentor : Mr. J. Krishnan



Student : Mr. Ayush Parasbhai Maniar  
Program : B.Tech, Electrical Engineering  
Project : Eye in the Sky  
Mentor : Mr. S. Ravichandran





Student : Mr. Yashwant Kumar  
 Program : Dual Degree, Chem. Engineering  
 Project : EDAR Labs  
 Mentor : Mr. Viswanathan Balakrishnan



Student : Mr. Rakesh Raushan  
 Program : Dual Degree, Aerospace Engineering  
 Project : Tech Table  
 Mentor : Mr. Krishnamurthi Rao



Student : Mr. Aneesh J  
 Program : M.A, Development Studies, H.S.S  
 Project : Prescribe  
 Mentor : Mr. Mohan Narayanan



Student : Mr. Shubham Danannavar  
 Program : Dual Degree, Engineering Design  
 Project : Project E  
 Mentor : Mrs. J. Jeyappriadhevi



Student : Mr. Samarth Wagh  
 Program : Dual Degree, Engineering Design  
 Project : Revroom  
 Mentor : Mr. Krishnamurthi Rao



Student : Mr. V.S.S. Anirudh Sharma  
 Program : B.Tech, Electrical Engineering  
 Project : Handyman Prosthetics  
 Mentor : Dr. Rajan Srikanth





Student : Mr. Aaditya Chandel  
 Program : Ph.D, Mechanical Engineering  
 Project : QK Res Technologies  
 Mentor : Mr. Viswanathan Srinivasan



Student : Mr. Kushal Kumar Reddy  
 Program : M.Sc, Biological Sciences  
 Project : Athene Science  
 Mentor : Mrs. J. Jeyappriadhevi



Student : Mr. Dhairyasheel Deshmukh  
 Program : M.S, Ocean Engineering  
 Project : DbyT Dynamics  
 Mentor : Mr. Rangarajan Ganesan



Student : Mr. Dhruv Gajwa  
 Program : Dual Degree, Engineering Design  
 Project : Event Hive  
 Mentor : Mr. Kannan Santhanam



Student : Mr. A. Seetaram Sahu  
 Program : B.Tech, Aerospace Engineering  
 Project : FynBITS  
 Mentor : Mr. Vinay Subramanian



Project Associate : Mr. Guhan Gunasekaran  
 Position : Proj.Assoc, Mechanical Engineering  
 Project : WASS  
 Mentor : Mr. Rangarajan Ganesan

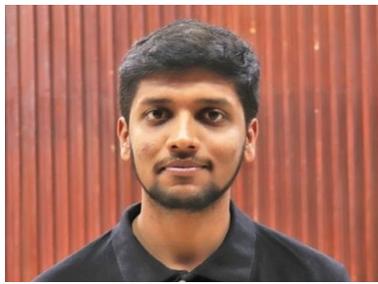




Student : Ms. Puja Kumari  
Program : Ph.D, Biotechnology  
Project : Greenwave  
Mentor : Mr. K.K. Raman



Student : Mr. Hemanth  
Program : B.Tech, Aerospace Engineering  
Project : Homemade  
Mentor : Mr. M. Subramanian



Student : Mr. Akanksh K  
Program : Dual Degree, Civil Engineering  
Project : Stride X  
Mentor : Mr. Kannan Santhanam



Student : Mr. Muthukumar  
Program : Ph.D, Aerospace Engineering  
Project : Pristine Energia  
Mentor : Mr. M. Subramanian



Student : Mr. Pushpak Waskle  
Program : M.Sc, Biological Sciences  
Project : Relnto  
Mentor : Mrs. J. Jeyappriadhevi



Student : Mr. Ankit Take  
Program : Dual Degree, Mechanical Engineering  
Project : Green Vent Tech  
Mentor : Mr. S. Ravichandran



## Students voice on how NIRMAAN helped:

"Nirmaan was instrumental in providing the right environment for us to feel and works like a start-up. Before Nirmaan, we were highly uncertain of silliest things, but on boarding, we could focus on bigger things like R&D, incorporation, and scaling up as we sort of stabilized. It also became easier to use IITM resources as a start-up under Nirmaan than being an independent student project".

Mr. Sandeep Gangaram



- ⚙️ "Nirmaan provided us with an extensive, well-maintained work space.
- ⚙️ Nirmaan supported us with extensive mentorship by connecting us with an experienced mentor.
- ⚙️ Nirmaan also enables us to connect with other entrepreneurs and learn from their experiences in this domain."

Mr. Aneesh J



## Pioneering support received from mentors of NIRMAAN:

"Nirmaan provided a mentor who is a pioneer in the automotive field to help us in understanding the R&D environment. Also other important aspects which have to be taken care of in the stage of product development. He also had guided us in the aspects that have to be taken care of in the development process. Interaction with him also provided us with relevant industrial contacts, which we are trying to use to understand the requirements and to know how to place our product in the market".

Mr. Jubin V Jose



"He shared his experience to start with the narrow topics and how to proceed further to take it ahead. Will be utilizing more of his expertise and will work on the feedback from him".

Mr. Rakesh Raushan



Initiatives through his contribution to the IIT Madras endowment fund

- ❖ Supporting student's travel grants
- ❖ Financial support for meeting publication charges in selected prestigious open access journals

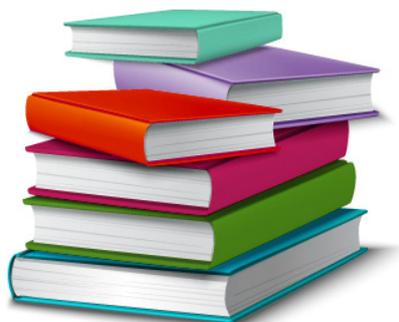


## Travel Grant

Travel Grant program is top-rated amongst Institute students. Travel Grant program impacts the students directly by helping them financially to participate in the International Conference and to present research papers, posters, and oral presentations. It also enables them to participate in competitions, workshops, summits, exchange programs, internships, etc.

The goal of this travel grant is to facilitate the professional development of under graduate and graduate students/research scholars and faculty by supporting their travel to professional meetings. This also supports exchange programs, summer schools and joint doctoral program which provides an opportunity for the recipient to present his/her own research. This enables to interact with peers and established scientists, which also helps to develop professional contacts to facilitate their career development.

Financial support for meeting publication charges in selected prestigious open access journals



To encourage publications of faculty members, as it is an added advantage to release the journal in open access. Preferably to have the work secured behind a pay wall. Thus IIT Madras encourages and supports it's faculty members by providing financial support for publishing in open access journals. The funding provided for this was from the contributions of Shri N. Lakshmi Narayanan.

A brief report on the other entrepreneurial initiatives of IIT Madras is as follows: GDC, CFI, CSIE, e-Cell, and IITM Incubation Cell. These initiatives started to encourage and support most of their students to start their start-ups. These start-ups will later become large firms of students passed out of IIT Madras, providing job opportunities for many.

## Gopalakrishnan Deshpande Centre

The Gopalakrishnan Deshpande Centre for Innovation and Entrepreneurship (GDC) is an alumni funded center for innovation and entrepreneurship at the Indian Institute of Technology Madras. It provides the necessary thought leadership and networking impetus to help in building the systems and processes. It enables innovative and entrepreneurial thinking in STEM universities across India. GDC is based in IIT Madras and is an integral part of its innovation & entrepreneurship ecosystem. Its mandate is to work with STEM universities across India, to implement a 'Lab to Market' mission. It is carried forward by helping faculty, researchers, students, and entrepreneurs. GDC commercialize their research ideas by assisting them to develop robust start-ups that positively impact India. To curate research ideas that would create sustainable business ventures that affect society at large. GDC works with stakeholders from academia, industry, finance, and government.

View the web link to know more:



## I-NCUBATE is GDC's flagship program

It enables faculty, researchers, and entrepreneurs in STEM universities across India. It helps commercialize their deep-tech ideas by way of business ventures. I-NCUBATE enables a lab-to-market transformation of technology ideas to create positive social and economic impact at scale. Over the past 24 months, GDC has benefitted over 85 start-up teams and 450+ participants through the I-NCUBATE program. With ten cohorts conducted at IIT Madras, IIT Bombay, IISc (Bengaluru) and IIT Delhi. For more on I-NCUBATE, you can watch the I-NCUBATE video.

View the web link to watch the I-NCUBATE video:



## I-NCUBATE - Key Outcomes for Cohorts 1 to 9



I-NCUBATE teams work on deep-tech ideas from diverse sectors such as AI, Biotechnology, Building Materials, Cleantech, Education, Environmental Science, Healthcare, Logistics & Supply Chain, and Material Science.

### Some teams from past I-NCUBATE cohorts:

Team Name	Start-up Idea	Sector
Angle	AI-based image recognition for security systems	AI
C-Sence	Smart LPG sensor for leak detection	Industrial
CellDzyne	Process for large-scale production of hyaluronic acid for commercial and biomedical applications, using a genetically engineered micro-organism	Biotechnology
Dhwani	Holistic rehabilitation system for children with hearing impairment	Healthcare
Enviro	Decentralized solar-assisted 'waste to energy' conversion technology	Cleantech
Fusion	E-solution offering multimodal treatment for managing tinnitus	Healthcare

Hindi Shabdmitra	Online platform for learning Hindi	EdTech
Namma Air Technologies	Technology for producing air purification filters	Cleantech
Primas Bioscience	Process for producing a high-value nutraceutical(omega-3 fatty acid) using a renewable, vegan source	Biotechnology
Robo-Rehab	Portable, modular and multi-joint physical rehabilitation device	Healthcare
Solinas	Robot prototype to inspect pipelines internally for defects, cracks, corrosion, pipe undulations, pitting & holes/leaks	Industrial
Tan90 Innovations	Portable cold box modules for easy scalability and Convertibility	Supply Chain
Tech4Dev	Machine for sorting and grading tussar silkworm Cocoons	Industrial
Thermelgy	IoT-based system to measure, monitor & analyse thermal and electrical energy consumption in industrial and commercial applications	Cleantech
Vayujal	Atmospheric water generator	Cleantech

## Centre for Innovation (CFI)



CFI is a 'Student Lab' at IIT Madras, set up with funds donated by the batch of 1981.

"To promote informal learning and foster innovation and invention in technology, with a focus on technologies aimed at contributing positively to the environment and the society"

CFI was started in 2008 to be a forum for the creative output of the budding engineers of IIT Madras. It provides students the necessary platform for realizing their ideas: a great workspace, a comprehensive inventory, ample guidance from faculty & senior students. The zeal and passion of the CFI team makes CFI a gifted asset for IIT Madras students. And over time, CFI has successfully evolved into a hub that encourages thinking and provokes students to generate novel ideas making it truly the "Centre" for Innovation.

The CFI vision gets achieved by espousing three significant concepts.

- ❁ Walk in with an idea, walk out with a product
- ❁ Support large student team projects
- ❁ A futuristic lab environment

View the web link  
to know more:



## Avishkar Hyperloop

The team Avishkar, comprising of 30 highly enthusiastic students, is working with a mission to develop swift and efficient transportation solutions to design the Hyperloop pod.



## CSIE in promoting socially relevant technologies



CSIE at IIT Madras was founded in August 2010 by the alumni of 1982, 84, and 86 batches, with a focus on teaching and research related to social enterprise in India. It aims to bring together the innovation and entrepreneurship aspects of IIT Madras. By creating knowledge and understanding that will be relevant to the problems faced by the underprivileged in India.

### Mission:

To build an environment that will facilitate the creation of social enterprise knowledge through research. It also empowers students to apply their entrepreneurship abilities to develop solutions for greater social impact.

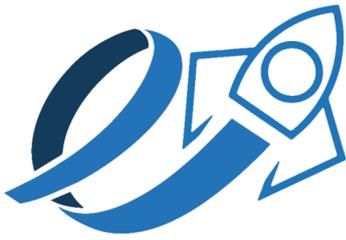
### Significant activities of CSIE:

- ❁ Facilitate technology support & creation of rural enterprises based on technologies. It is leveraged from faculty and centers of IIT Madras and thus enhances rural livelihoods.
- ❁ Mentor artisan based clusters through the triad of 'Technology, design, and social marketing.' It impacts the lives of artisans measured by an increase in their income.
- ❁ Offer International Winter/Summer Schools on Social Enterprises.
- ❁ Undertake CSR supported Livelihood Intervention and skill development projects.

View the web link  
to know more:



## E-CELL IIT Madras



**e-CELL IIT MADRAS**  
Powering entrepreneurship at IITM

Entrepreneurship Cell IIT Madras makes the entrepreneurial world accessible to all segments part of the IIT Madras ecosystem. It caters to the audience comprising from start-up enthusiasts to fulltime entrepreneurs. We conducted through a plethora of yearlong events such as Conclaves, Keynotes, Industry Defined Problems, B-Planning, Fundraising competitions, and workshops.

### Vision:

We strive continuously towards nurturing individuals with creative minds and ideas with the potential for substantial business opportunities. We seek to enable smooth and efficient interaction between its principal components. We are spanning students, faculty, working professionals, aspiring and existing entrepreneurs, mentors, angel investors, and venture capitalists. Thus consolidating the entire pipeline of the entrepreneurship ecosystem and serving our vision to Empower entrepreneurship at IIT Madras.

### Mission:

We are missioned with a common goal to inculcate the spirit of entrepreneurship among young minds and become a pathway towards India's socio-economic development, for India to emerge as the super nation in the coming years.

Please have a look at 4th edition of our annual Magazine, The Entrepreneurship Insider.



Newsletter comprises the throwback of events conducted during the Semester.



## IIT Madras Incubation Cell

## Deep Tech Start-ups incubated @IITMIC

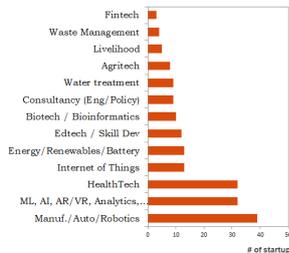
India's leading Deep Tech Innovation & Startup ecosystem  
Empowering Innovation & Deep Tech driven Entrepreneurship to address national challenges through successful, self-sustaining companies that are redefining markets



### OUR WORK IN NUMBERS

<b>200</b> STARTUPS	<b>76</b> GRADUATES	<b>₹1677cr</b> (US \$235M) INVESTMENT BY ANGEL/VCS	<b>₹6767cr</b> (US \$948M) VALUATION	<b>8</b> M&A
<b>78</b> STARTUPS IN MARKET	<b>93</b> INCUBATEES	<b>₹435cr</b> (US \$61M) CUMULATIVE REVENUE IN FY19-20	<b>4000+</b> JOBS CREATED	<b>100+</b> PATENTS FILED
				<b>₹ 24 crore</b> Incubator Seed funding

### SECTOR CLASSIFICATION

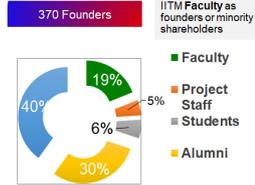


- IITM Startups transforming Industry/Tech environment & adding value to society
- Innovations in robotics, materials, AI, AR/VR, IoT, nano & battery tech
- Impacting Transport, Energy, Water, Infra, Air Quality, Education, Manufacturing, Finance, Agri, Skill development, Healthcare, Automation...
- Incubating 40-50 new startups per year

Startups founded by (current trend):

1. External entrepreneurs
2. IIT Alumni
3. IITM Faculty & Project Staff
4. IITM Students

Rise in Industry-academia collaboration  
Deep domain knowledge + high risk tolerance by young student/alum entrepreneurs → innovative/unique early stage deep tech startups



"University is the ideal Startup platform"



**Ecosystem Partners:** IIT Madras Foundation, Healthcare Technology Innovation Centre, RTBI, IIT Center, etc.

**Government Partners:** Department of Science & Technology, NESTED, etc.

**CSR Partners:** Titan, Atos, HDFC Bank, etc.

**Other Partners:** Google Cloud, IBM, etc.

**Investor partners:** Social Alpha, Matrix, etc.

View the web link to know more:



IIT Madras is fortunate to have associated with most promising alumni who have served across the globe and eminent well-wishers. They have shown great interest in the growth and development of IIT Madras. One such eminent well-wisher of IIT Madras is Shri N. Lakshmi Narayanan, who has received several industry accolades, including Economic Times Entrepreneur of the Year 2005.



And he has also been conferred the "Life Time Achievement Award" during CII Connect 2013 Entrepreneurs Award.



# Thank you

IIT Madras is incredibly grateful for your exceptional generosity and support in building this premier academic and research institution in India through all these years. Your unrelenting support and commitment have charted the route that guided us towards achieving various milestones for a better tomorrow.

We express our heartfelt gratitude to Shri N. Lakshmi Narayanan. For his profuse support as a mentor in encouraging entrepreneurial activities in the Institute and other places. His encouragement and support has been a great motivational factor. To grow the students' confidence in starting up their own start-up company from scratch. We salute his commitment and interest shown towards IIT Madras. We will always treasure and value the benefactions provided by Shri N. Lakshmi Narayanan and Smt. Lakshmi to IIT Madras.



For more information, please contact:

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