KERALA'S VIBRANT

# STARTUP ECOSYSTEM

REPORT BY KERALA STARTUP MISSION





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#### **DISCLAIMER**

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The Contents do not necessarily reflect the official views of Kerala Startup Mission, Government of Kerala or any other Government Department. This report does not constitute a standard, specification or regulation.

The data, analytics and lists of startups used herein have been collected from various incubators, incubation centres, databases, academic institutions and startup community organisations. However, as there may be omissions or exclusions, startup organisations, if they wish to, are requested to get in touch get themselves registered with Kerala Startup Mission to the database of startups in Kerala.





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**DESIGNED BY: ANANTHU SKUMAR** 

# **BACKGROUND**

Kerala's Vibrant Startup Ecosystem Report published by Kerala Startup Mission in 2016 tracked the growth of Kerala's startup sector for the very first time. Kerala Startup Mission played the pivotal role in development, orchestrating every piece of a vibrant Startup ecosystem. Startups in Kerala are stretching their limits as they focus more on to future technologies and finding solutions for problems in ways not experimented before. We have seen entrepreneurs from Kerala also shining in the limelight of success in international forums. Success stories are written in sectors other than Software and IT also. Kerala technology startup policy 2014 has been implemented to a larger extent and that in turn leads to more proactive measures in the new State IT policy 2017.

Success and response of various conclaves and summits alongside with an exponential growth in number of startups, demands for an appraise to trace the advancement made by each schemes/activities put forward by Government of Kerala through Kerala Startup Mission.

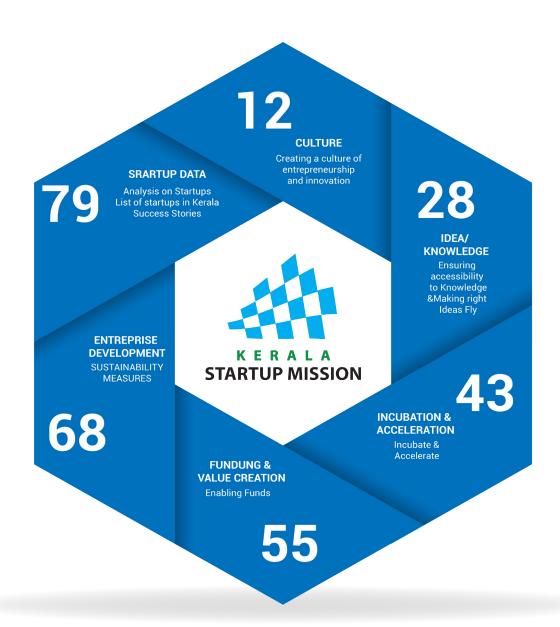
The main objectives of the study in nutshell are:

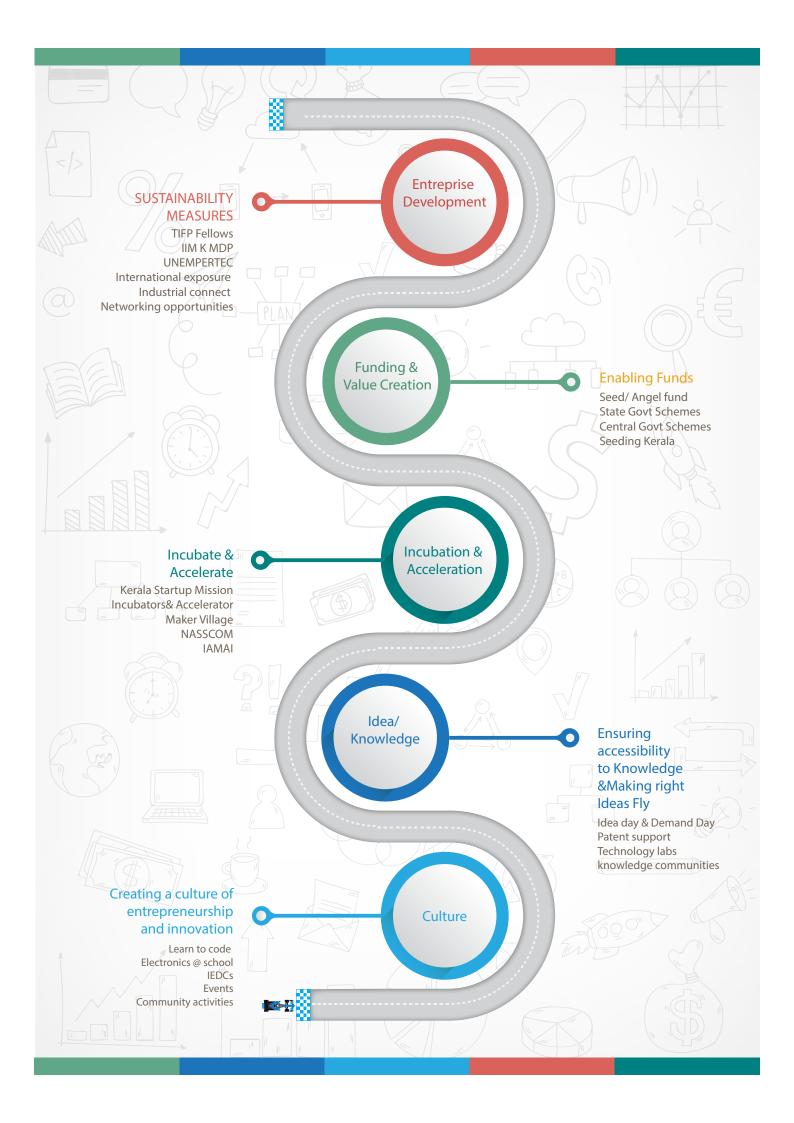
- To update the growth of Kerala's startup ecosystem
- To analyze the existing state polices/schemes and their effectiveness
- To study the performance of existing incubator, accelerators and startups
- To review the role of the State as a facilitator in the organic growth of Kerala's startup ecosystem.
- To review policy, exemptions & incentives and infrastructure available to startups, ranging from tax breaks, to exemptions/facilitation to participate in Government tenders.

Kerala towards the end of this decade is witnessing a wave of innovative and entrepreneurial efforts from discrete sectors. The startup ecosystem is well equipped to mark the next quantum leap. Every block an entrepreneurial ecosystem needs is falling in place. Kerala posses a unique model of connecting academics, industries, R&D institutions and startups, apart from other Startup Ecosystems in the country. The Ecosystem is prioritized in such a way that it caters technologies to create developmental interventions for community. Creating a DIY culture at schools stimulates grass root level impact, which further on gets handhold by Mini FAB labs and IEDCs at colleges thereby resulting in having passion to create entrepreneurs and innovators adapt with latest technologies and unicorns at home.

The entrepreneurial wave witnessed in the state need to be showcased, as it can provide valuable insights to the stakeholders of the Ecosystem. Few States in this country has such a strong network of Schools, Colleges, Incubators, Research centers, Government institutions and Startups aligned and interlinked together to bring out success stories. Kerala has always been a land of high literacy rates, skilled labors and exceptional health records. Now it's becoming an excellent host and enabler for world-class entrepreneurs, innovators, investors and startups.

# INDEX





# **SUMMARY**

Government of Kerala initiated the startup movement through Kerala Startup Mission by forging and implementing forward-looking policies for creating a vibrant start up ecosystem in the state primarily to foster the growth of innovation lead technology entrepreneurship. Kerala Startup Mission has initiated various steps to nurture a sustainable ecosystem and identified 5 areas of intervention ranging from culture to enterprise development.

# Culture

Keralites are now accepting the fact that - there is no failed entrepreneur, but can have only a failed enterprise (startup), this supports the risk-taking attitude of the young crowd. Failure is not considered as an end rather as a learning experience where entrepreneurs learn from past mistakes. At the same time, the social status of an entrepreneur is also growing. In Kerala one could see more ambitious and passionate folk of aspirant entrepreneurs than ever before and the success stories echoes all over the map. A culture for innovation and entrepreneurship is being crafted in Kerala through various grass root level activities. Investing on a student at a very young age through Learn to code program, the State quarantees introduction of latest technologies and problem solving methodologies at grass root level. Furthermore, the Innovation Entrepreneurship Development Centres (IEDCs) run by Kerala Start up Mission is acting as a nodal point for pooling up innovative ideas from colleges. The 193 IEDCs have accommodated around 10000 engineering students across the state. Various technical community activities and events contributed in building up this culture in Kerala.

Sub policy 7: 11.3

No Failed Entrepreneur
The Government recognizes the fact that the ideas, attempts / or start ups could fail but there cannot be a failed entrepreneur.
The Startup founder/ entrepreneur shall not be barred from restarting a startup in an incubator or availing the benefits of the start-ups/entrepreneurs due to a previous failed attempt unless there is a filed/proven case of fraudulent/malicious intent.

# Idea & Knowledge

Grants for innovative ideas (Rs 2lakhs per idea):
The government shall give Rs 2 lakhs per innovative idea/start up and this shall be to startups within the state. The funds shall be disbursed through Kerala startup Mission to the start ups registered in the ecosystem.

Sub policy 7: 4.1

The activities initiated in the IEDCs enable the students to come up with innovative ideas. These innovative ideas are taken up to the expert committee for evaluation on an IDEA day. The selected ideas get mentored through professional mentorship and funding. This model derived by KSUM will enable the students to get hands on experience on various cutting edge technologies. The extensive digital fabrication infrastructure (fab labs) acts as a catalyst to come up with prototypes thereby creating a channel for much needed 'Idea to Prototype' conversion. Various Laboratory facilities like FAB lab, Future tech lab, IOT labs etc act as knowledge centres transferring latest domain knowledge. Support from non-governmental institutions is ensured through community engagement programmes for conducting various activities likeentrepreneur mentoring sessions, entrepreneurship promotion in non-profits, business plan contests, conclaves, summits, conferences etc. Various tech communities across the state provide technical support for startups and students.

IT Policy 2017: 6.2. IT Industry and allied Infrastructure

The Government shall undertake major projects capable of creating new employment and increasing the IT exports from the State. Government or private entrepreneurs as per the existing Private I T park guidelines shall take the same up.

# **Incubation & Acceleration**

Kerala now accommodates 18 incubators, 3 technolodges and 3 accelerators. Kerala Startup Mission provides support and partnering at various levels to these incubators for their effective operation. Internet And Mobile Association of India, the leading industry body for mobile communications, enters Kerala with Mobile 10x, opening new opportunities for app development communities. Maker village in Technology Innovation Zoneis equipped with state of the art facilities for prototyping of electronic hardware products. For the startups innovating in Health and Life sciences TIMed and BioNest provides state of art technologies. The ideas, which emerge out of IEDCs and Idea Day, will find themselves curated and developed in incubators, for the long journey enterprise development.

# **Funding & Value Creation**

As most of the Kerala startups are involved in the innovative technology based products, the availability of risk capital at substantial levels becomes a key factor to their success. Realising this KSUM has initiated several measures to enhance the fund availability to startups. The private as well as government funding for the startups in the year 2015-2016 stands Rs 263 crore. From \$9.05 Million institutional funding that came in the year 2014 it increased to \$19.65 Million in the year 2015. In the year 2016 there was a steady increase in the fund flow and startups have raised \$15.72 Million in the first 6 months itself. The change in institutional funding is because of the support rendered by Government in ways of seed funding and equity base funding that encouraged and supported the startups to surge ahead. The flow of funds that came from government agencies alone is Rs. 277 crore during the last 3 years. For startups Government has come up with the Kerala Based Venture capital funding where the state government will participate as a limited partner. The government participates in SEBI approved early stage Venture capital Funds, up to 25%, as limited partner is a unique model to create substantial fund availability for Kerala based start-ups. Events like Seeding Kerala for encouraging and educating the angel networks and KSUM has also organised High Net worth Individuals towards investing in Startups.

**Sub policy 7: 4.3.** Alternate Investment fund (Kerala Focused)

Government shall encourage Kerala focused funds to start operations in the state and shall take participation in the same upto 25% as limited partner. The Fund shall be managed as per the rules and regulations of the fund.

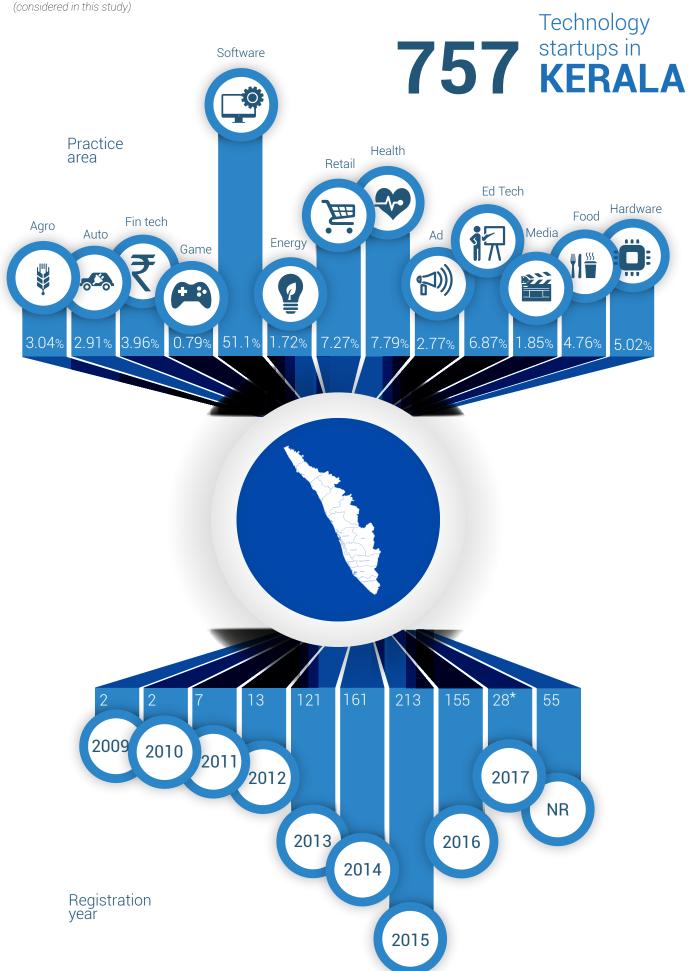
**Sub Policy 7: 10.3** Commercialization.

Assistance to early markets (Government and pilot projects) Government shall attempt to early markets startups through projects in government and also facilitation through means of DEMO days for products applicable to government.Government shall make suitable modification to rules to enable direct engagement of startups by government agencies for costs less than 5 lakhs.

# **Enterprise Development**

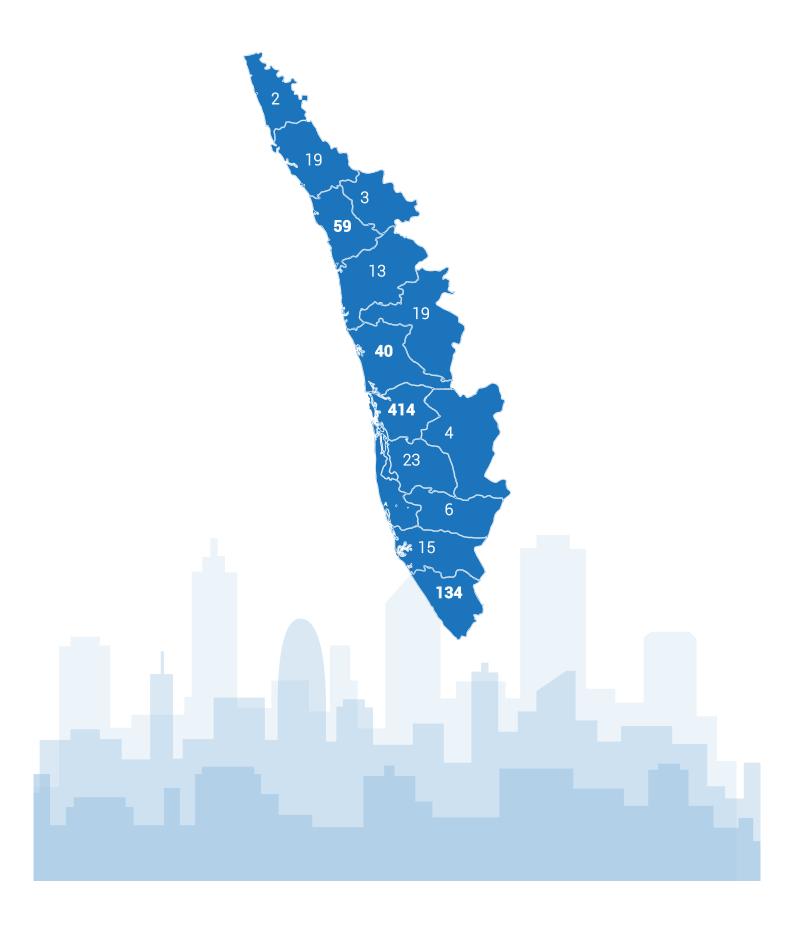
Government took the initiative by posing itself as the early market place, as government departments and agencies opened doors for startups to find solutions for their problems. Government passed an order to accept purchase from startups through Kerala Startup Mission up to 5lakhs without going through tendering process. In this age of technology advancement startups could create markets across the globe and many startups from here have foreign clients. To facilitate this, Kerala Startup Mission provides networking opportunity by availing entry to national and international conferences and summits. KSUM also supports participants of startups in International exchange programmes and various summits to create exposure and knowledge to entrepreneurs. Further, specialized programs are designed with the help of IIM Kozhikode, UNEMPERTEC etc. to enhance the business, building capacity of technology startups to create sustainable markets for them. Experts are engaged as senior fellows (TIFP Fellows) to handhold startups during the development stage.

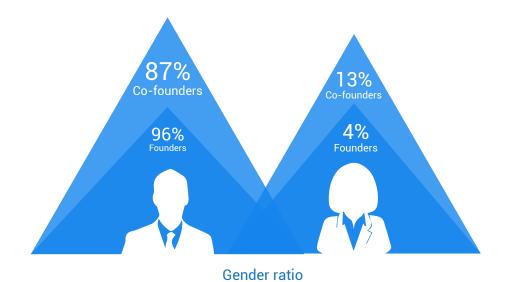




<sup>\*</sup> This doesnot inclode non-technology startups and startups solely engaged in service business

# Startups Ratio





18%

28%

32%

22%

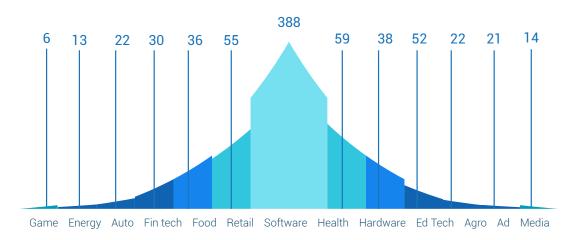
35%

28%

21%

Rating for access to funding 1 to 5

Rating for support from ecosystem 1 to 5



**Broad industry Segment** 



# LEARN TO CODE

14-year-old Manas Manohar

Kerala Raspberry Pi Competition winner Winner @ Southern Indian Science Fair, held at Pondicherry Nominated for Young Scientist Award CEO of MIYMAKER

Projects: Pi Attendance Auto Plant Technology and Innovation were once considered to borne out of evolved higher education systems of resource rich developed world only. In order to create a culture for entrepreneurship these very stere-otypes have to be broken. Learn to Code program gave thousands of Mini computers to kids in different Govt. schools. The Government of Kerala had the intention of enabling students with basic coding skills and equipping them with the required skill set to kindle their innovation and instill the DIY culture into them at a very young age as they initiated the farsighted Learn to Code or the Raspberry Pi Programme. The project office of IT@School, Government of Kerala is responsible for providing hands on training for the students of Government, aided and unaided schools. IT @ School provides training for select students and faculty at their regional and local centers.

The initiative of the Government is to impart technical knowledge from the school level itself for creating a skill pool of young talents. As Learn to Code programme not only gives access to a new world of innovation but it also opens up a window of opportunities to young minds to pursue their future dreams. After the training is complete the student shall showcase their capabilities in a statewide exhibition. KSUM shall interact and follow-up with the trained students by providing a web platform where students can clear their doubts, learn about advanced projects and can showcase their projects in it. Students have been extremely responsive to the programme and had come up with 'out of the box' ideas and practical solutions to societal problems they say around them.

"Learn to Code" Raspberry Pi Programme

Target Audience -8th STD
Students at the age of 12
Quantity – 10000 Raspberry Pi Kits distributed.
Coding language: Python
No. Of Schools-participated: 2500
Students trained-directly – 30000
Students trained indirectly – 100000
Faculties trained – 175

After the initial phase of distribution of the raspberry Pi kits, KSUM has invited projects made by students for evaluation and support. The students submitted over 100 projects across the state and prize distributions worth Rs 3 Lakh were awarded to the students. This created in depth interest in the students to have DIY (Do it yourself) culture in them.

The Raspberry Pi (RasPi) is a credit-card-sized single-board computer developed in the United Kingdom by the Raspberry Pi Foundation with the intention of stimulating the teaching of basic computer science in schools. The Raspberry Pi Foundation is a charity founded in 2009 to promote the study of basic computer science in schools, and has been extremely successful in utilizing the RasPi as a tool for promoting creativity, innovation and the Do-It-Yourself (DIY) culture in education.

# **ELECTRONICS @ SCHOOL**



Kerala has set a great example of catching them young as far as IT education is concerned, through the IT @ School program. As a natural progression to the successful implementation of this program over the last decade and the government plans to take the electronics exposure to the youth at a very early stage itself through a new scheme titled Electronics @Schoolin association with Kerala Startup Mission and IT@School. The prime objective is to create electronics corners in schools, which will enable hands on experience for students to learn the basis of Electronics. The structure of the kit divides electronics into six basic blocks, or bricks. Each of these bricks is colour coded so as to make it more intuitive and therefore easier for children to understand;

The Government distributed a total of 4000 Electronics kit named "Circuit Builder" to various Schools across the State so far. The Electronics Kit is aligned with the Physics curriculum of the 9th and 10th std students and around 1200 teachers were also been given hands on training on the kit in the initial phase itself.

# STARTUP BOX



Government of Kerala has observed the new spur among the youth towards startups and has identified youth entrepreneurship development as a key focus area for state. STARTUP BOX INITIATIVE is such a scheme to empower college students to jump into the entrepreneurial bandwagon by providing them with right accessories to facilitate this transition. It is very clear that employment and growth opportunities in the next fifty years of the world are going to be based on Technology. The Government of Kerala has designated identified Kerala Startup Mission the implementation agency for the Startup box initiative. Yearly the STARTUP BOX INITIATIVE will provide support to 50 teams selected through IEDCsof Kerala Startup Mission or through various incubators in Kerala. As technology continues to evolve, it brings with it new opportunities and challenges for entrepreneurs. STARTUP BOX INITIATIVE aims to address the lack of courage, initiative and encouragement to attempt new and innovative ventures. The STARTUP BOX INITIA-TIVE aims to debunk the myth of difficult processes that lead to a successful startup.

Startup Box- contains essential tool kits to kick-start theoperations of a digital age startup and shallcomprise of a High-end computer, Smartphone, Maker kit, Internet dongle, eBook reader etc. Kerala Startup Mission distributed 150 Startup Boxes to various incubators and startups and the boxes shall remain the property of KSUM and shall be provided to Startup only for the duration of the program, and post that, the Box shall be returned (as provided) to the incubator the startup is associated with.

# INNOVATION ENTREPRENEURSHIP DEVELOPMENT CENTRE(IEDCs)

IEDC is a startup bootcamp programme initated by Kerala Startup Mission aimed at the direct involvement of the student community in the creation of a sustainable entrepreneurial ecosystem in the state. Each IEDC is manned completely by the student's representatives which form the executive committee for implementing entrepreneurship and innovation activities in the college. The IEDCs are to act as hubs of activity of entrepreneurship development activities in the college and shall be under the IEDC program of the Kerala Startup Mission. The target audience primarily consists of students and faculties of engineering, polytechnic and Arts & Science Colleges in the State.

The IEDC act as an institutional mechanism for providing various services including information on all aspects of enterprise building to budding Science &Technology entrepreneurs.

These institutions by deriving vitality and strength from their participant audience also seek to create an entrepreneurial culture in the Parent/Host Institution and other institutions in the region and to promote the objectives of KSUM and National Science & Technology Entrepreneurship Development Board (NSTEDB), including programmes related to women and weaker sections of the society. It also seeks to inculcate a culture of innovation driven entrepreneurship through student projects and catalyze development of S&T knowledge-based enterprises which promote employment opportunities in the innovative areas. IEDC's shall be able to respond effectively to the emerging challenges and opportunities both at national and international level relating to SMEs and micro enterprises.



EWENTURE

BLUEDROBE

Colleges having IEDC in the state: 194 Colleges given Performance Grant: 55 Students Participated in the events: 50000 lodal officers trained for running IEDC: 194

#### Student Capacity Building Initiatives:

25 Entrepreneurship awareness workshops by EDI 18 startup i 3 20 EAC by ICT academy 12 FABxi

8 Creative design workshop by Workbench 20 Out of syllabus session by Openfuel

# Nodal Officers Capacity Building Initiatives:

7 nodal officers orientation sessions 10 attended UNEMPERTEC 10 sent to NASSCOM Ed Tech event at New Delhi 20 sent to NASSCOM IOT Conference at Bengaluru

#### Labs:

20 colleges with IOT labs
20 colleges with mini fablabs
Fund distributed for the IEDC activities – 4 crore

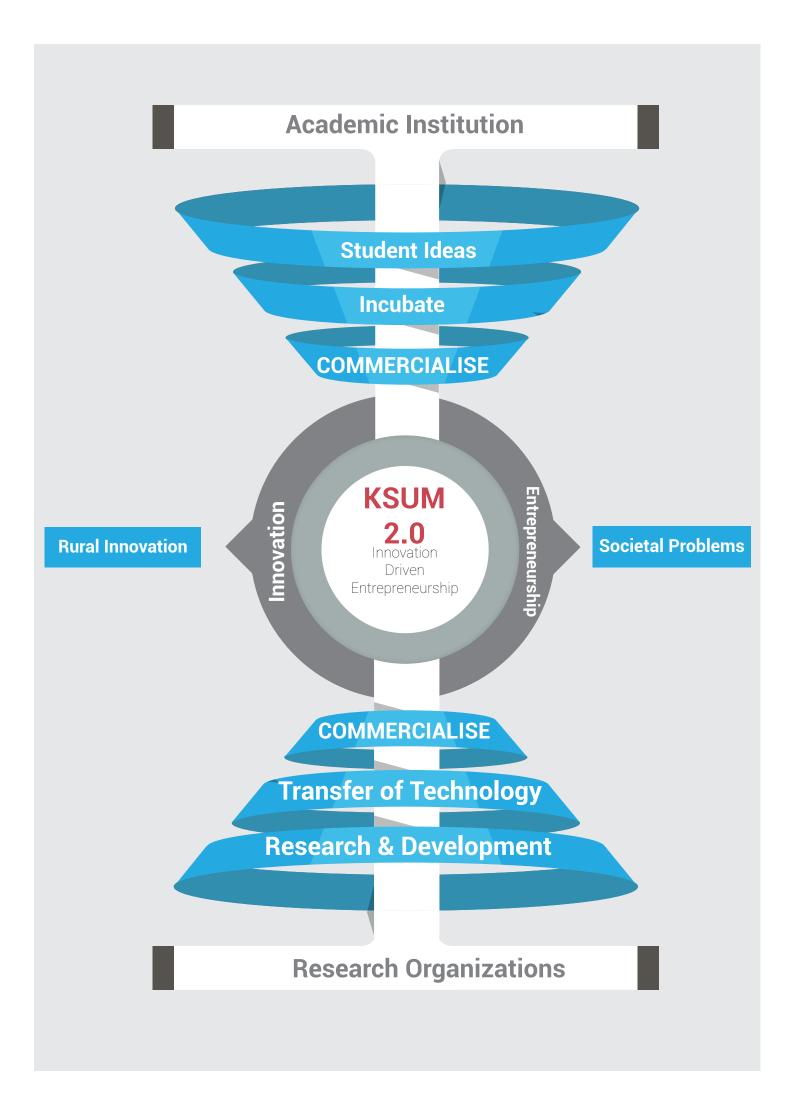
Projects developed – 150-Startups: 200+

# INNOVATION DRIVEN ENTREPRENEURSHIP



The Science and Technology driven Innovation comes under a broad category of innovation definition called "Knowledge based Innovation". The Information technology "start ups", essentially belong to this category of enterprises discussed above and seem to be bringing about disruptions in the sectors where they are working. These innovators are today equipped with the power of Internet and developments in Information technology and hardware devices. They seem to be creating a market pull in unexpected directions and the convergence of ICT, mobility and cloud technologies seem to be favoring the same. The thrust affected by re-engineered business models in the concerned sectors has been tremendous. In hospitality we have the largest accommodation provider who doesn't own a property and in Media we have the largest media company, which doesn't have a production facility. These were models unthought-of or written off not too long ago and similar disruptions are happening in education, healthcare and all several other sectors.

KSUM focuses on Innovation Driven Entrepreneurship and the elements triggering such innovation are expected to come out of the Academic institutions, R&D centers, Society in general (societal problems) and Rural innovators, involved in 'jugaad' innovations. To facilitate this, KSUM is establishing a clear stream of activities connecting the technical universities and academia at large, which will help scout innovations nurture them and bring them to a level of commercialization. On the other end there are R&D institutions and agencies working on cutting edge technologies, which create intellectual property and advancements in various technologies for their own research or operations. These advancements however do not come out for the common good of the society nor does it translate to commercial businesses. KSUM is developing a system that has provisions to capture such latent talents and innovations and bring them to the forefront. The biggest triggering force of commercially successful business is a societal pain point, every time an innovation addresses a problem faced by the public in a way better than it is being done currently there is a ready market/ opportunity. The system shall also plan to identify, scale up and bring to notice the incremental, breakthrough or the frugal innovations done by general public especially in the rural areas. This we call KSUM 2.0



# **EVENTS**



## FABxl-Fabricate the excellence in you.

Fabxl offers students from all over the State a new way to approach knowledge and technological tools. The Fabxl provides instruction and supervises investigation of the mechanisms, applications, and implications of digital fabrication at an initial level.

FABxl is conducted to discover talented maker in IEDCs. Fab Lab Kerala in association with Kerala Startup Mission organize these 2-day hands on Maker workshop at different colleges in state. Fabxl ensures that the participants get familiarized with the digital fabrication machines available Fab Lab network in Kerala and on how to use them. FAB graduates from MIT Fab Academy will train them in converting their idea into a prototype.

Currently KSUM has conducted 12 Fabxl across different IEDCs.

## Startupi3 (Ideate: Innovate: Incubate)

The Start Up i3 programme is an opportunity and platform for students to express their innovative ideas in a collective or group setting. Brain storming the ideas in a group will help the students to ascertain the viability of their ideas. The mentoring sessions are structured in such a way that the best ideas shall be identified and selected from the group. Innovative ideas shall be mentored and guided as to how well their individual business idea can be executed. The target audience of Startupi3 is predominantly students belonging to the IEDC

Ideate: Ideation is one of the basic process, which has to be shown the right path. Connecting the Problem of the society and need of the society will create successful enterprises. Kerala Start up Mission in association with Open fuel will be giving a platform for students to interact with each other and to through away the barrier of expression.

Innovate: Innovation needs knowledge, exposing the students to technology will bring out innovation. The 3 days programme will help the students to identify the core areas they can relate their studies with innovation.

Incubate: Kerala Start up Mission offers the unique platform for the students to take their ideas to the next level. Mentorship and technical expertise will help the students to mould their ideas into successful products.

Currently KSUM have organized 18 startup i3 in the state.

#### FAN 3

The second leg of the third edition of the FabLab Asia Network conference (FAN3) was held at Mill Hall, Mattancherry on Jan 17-18, 2017. The first leg of the conference was held at Mumbai from Jan 12-15, 2017. The weeklong event is organized every year by the Fablab Asia Foundation — a network of 81Fablabs located in 21 countries in the Asia Pacific region.

## **Events**

The Kochi event, hosted by Kerala Startup Mission (KSUM), Vigyan Ashram and Research Innovation Incubation Design Labs (RiiDL) focused on digital fabrication and international collaboration. 80 international delegates, 200 local makers are expected to participated in this year's conference. A series of technical workshops, panel discussions and talks were conducted as part of the event. The conference also deliberates on developing the startup ecosystem in the state. The event provides a platform for students and startups to interact and collaborate with makers from across the world.

The delegates visited the Kochi MuzirisBiennale(KMB) and explored the opportunities to connect art, design and digital fabrication. The third edition of the Biennale has seen more installations in the new media category – which fuse technology and creativity to create unique art. As KMB's technology partner, KSUM has been providing the necessary technical help for the project. It has deployed the Fablab team under it for the purpose. KSUM has also opened a space -Maker Outpost- at Mill Hall in Mattanchery, as part of the Biennale, for showcasing FabLab skills. Best projects from Innovation & Entrepreneurship Development Centres (IEDC) in colleges in the state have been showcased at the Outpost. The Kerala Fab Academy has also trained the artists from Srishti School of Art and Design Technology at the Fablab. Their projects are also being showcased at the Mill hall.

KSUM hopes that FAN3 conference and other maker events has strengthen the Maker culture in the state, by providing makers, hobbyists, students and start-ups an opportunity to connect with international delegates.

## IEDC Summit-For the aspiring student entrepreneurs.

IEDC Summit is an annual event hosted by Kerala Startup Mission that brings together young minds from various IEDCs all round Kerala to share their thoughts with each other and also gain knowledge about the vibrant ecosystem they are part of. Students from every district converge to learn more and be part of this technology revolution.

The summit showcases highly motivated handpicked entrepreneurs across the country, which could deliver their stories to inspire the young minds assembled. The keynote sessions will feature women entrepreneurs, social entrepreneurs, student entrepreneurs and so on. There will be panel discussions on various challenges faced by founders and how they overcome it.

The need for curating problem specific startups has to be taken up more seriously in the present day scenario. The aspiring entrepreneur should access the needs of society and come up with innovative projects that will in turn develop into a successful startup, there by solving the problem as well as creating a successful entrepreneur. Workshops on building social enterprises, design thinking etc addresses this demands.

Learning stations are setup parallel to the main stage events. In those learning stations lot of knowledge transfer is guaranteed through interactions with tech communities, various capacity development programmes, KSUM officers etc. The exhibition of selected student projects also occurs in the learning stations.

Kerala Start Up Mission organized the first IEDC Summit 2016 on 23rd of August at Girideepam Convention Centre, Nalanchira Trivandrum. Shri Pinarayi Vijayan, Hon. Chief Minister of Kerala addressed the young student entrepreneurs and aspirants as Chief Guest. The whole summit is considered to be a tribute to APJ Abdul Kalam, the man who inspired and motivated us to pursue our dreams. Kerala Start-up Mission at that point was supporting 147 IEDC across the state and a total of 2500+ students participated.

## Nodal Officers Meet up.

IEDCs are monitored by the Nodal Officers who does the initial screening of a startup idea from a student along with ensuring a proper function of the IEDC. So empowering and updating the Nodal officers with entrepreneurial updates and technology inputs is imperative. The business modelling as well as market viability of a particular product has to be evaluated at an initial stage, the IEDC Nodal Officers Annual Summit is a 2 day Facility enrichment programme that will become an appropriate platform for the faculties to build up their knowledge level and rejuvenate themselves.

# **Events**

In the summit the academicians are given chances to interact with Government decision makers and also Chancellor/Directors of Education system/ universities they are part of. The occasion is utilised for communicating challenges each of them face or observe in developing a competent wave of entrepreneurs in the state. Kerala Start up Mission takes this opportunity as a facilitator and enhancer to this process by ensuring both sides are aware of the existing schemes and its plan for the coming years. The Meet up creates a ground for discussing new initiatives and bettering the existing ones, also interested Industrial connects are introduced during meet ups.

Workshops on Design thinking, basic statutory compliance, funding aspects, technology innovation sessions, IPR filing, social entrepreneurship and panel discussions are planned for the meet up. It will therefore become an excellent learning platform for the faculties to efficiently implement the IEDC activities in the State.

Innovation & Entrepreneurship Development Centre's Nodal Officers Annual Meet up held at Kerala Technology Innovation Zone on 24th and 25th of March 2017 opened new waves for college level entrepreneurship in the State as 152 Nodal officers attended last year.



# **TECH COMMUNITIES**



## Django Girls Thiruvananthapuram

Have you ever felt that the world is more and more about technology to which you cannot (yet) relate? Django Girls is a community for women, which helps girls with every less technical skills to learn how to develop websites with a easy to use DJANGO framework. We believe the IT industry will greatly benefit from bringing more women into technology. We want to give you an opportunity to learn how to program and become one of us – women programmers! If you are a woman, know English and have a laptop, you can apply for our event! You don't need to know any technical stuff – our workshop is for people who are new to programming.

For joining, visit https://djangogirls.org/thiruvananthapuram/ Email - misag754@gmail.com

#### Drupal Kerala

Drupal is content management software. It's used to make many of the websites and applications you use every day. Drupal is open source, and hence, backed up by a big Drupal community, in fact one of the largest open source communities in the world. We're more than 1,000,000 passionate developers, designers, trainers, strategists, coordinators, editors, and sponsors working together. Drupal Kerala, is such a community that is situated in the state of Kerala. Here, we organize, plan and work on projects. We organize meetups and regional Drupalcamps in particular to create a platform for existing and new Drupalers to meet and share their ideas and thoughts.

For joining, visit https://groups.drupal.org/kerala Email - aneesh.nl@gmail.com

## Google Developers Group Cochin

Google Developer Group Cochin or GDG Cochin is the second GDG in Kerala, India which is a group of enthusiast developers who came together to share and spread knowledge. We primarily focus on Google's and other open source technologies.

GDG plans regular events, meetups and workshops to share experience and to spread knowledge. We are keen to conduct events for fresher and other developers.

Meetings will always be free and open to the general public

For joining, Visit:https://developers.google.com/groups/chap-ter/106046004645175854179/

Email - shibinazx@gmail.com

#### Hackster-Kerala

Hackster helps people everywhere learn how to design, create and program Internet-connected hardware. By bringing together our network of close to 200,000 engineers, makers and hackers, 90 technology partners, and 100 Hackster. Hackster-Kerala is a community for hardware hackers in kerala, working with support of Hackster.io.

The aim of the Hackster-Kerala is make Kerala a highly social and economically forward state through latest technologies and education with the support of Hackster.IO and help develop highly skilled youth and empowering them with technical skillsLet's learn, design and make together. We are going to share knowledge about Internet of Things (IoT), new era in technology.By popular demand, we're also launching local project nights and events on hackster Kerala space.

For joining, visit https://www.hackster.io/hackerspaces/kerala

## Internet Society Trivandrum Chapter (ISOC Trivandrum)

Internet Society Chapters are communities of like-minded people who work together to run a variety of programmes and activities, such as educational events, community and public policy programmes and networking events.

ISOC Trivandrum chapter enables a cross-section of communities including end-users, students, NGOs, technical & research institutions, Government and the Industry, organized through the multi stakeholder model, to participate in the governance of the Internet and in related areas, through several activities such as providing background information; linking members with global organizations and processes; getting resource persons to provide guidance; and taking up projects of relevance to local communities in the realm of Internet Governance.

For joining, Visit: https://www.internetsociety.org/who-we-are/chapters/join-chapter Email - ranju@ieee.org

## Kerala Machine Learning

As we speak today, machine learning is transforming the world by enabling machines to do all sorts of 'intelligent' tasks such as understanding images, human speech, predicting preferences and many others. With tremendous amount of data, interconnectedness and huge processing power in small devices, machines are doing things that were not anticipated until recently. Whatever the future may hold, currently machine learning is creating new efficiencies in the marketplace, leading to new business models, which did not exist before. Even current businesses are relying more and more on data and the predictive power associated with building models – those who aren't are losing their competitive edge. Also, new machine learning techniques together with neuroscience is also helping us understand better, the probable basis and mechanism of intelligence Email - prvn431@gmail.com

## Kerala Ruby Users Group

The community that grows up around a programming language is one of its most important strengths. Ruby has a vibrant and growing community that is friendly towards people of all skill levels. Kerala Ruby User Group, a community of ruby developers based in the state of Kerala, India.

For joining, visit https://krug.github.io/

Email - mailme@hsps.in



#### Kochi Python

For aspiring Data Scientists, Python is probably the most important language to learn because of its rich ecosystem.

A group of python users and developers around Cochin, Kerala. We are a community who bring developers together to share best practices and learn more about the use and development of python. For joining, Visit: http://kochi.python.org.in/

Email - rahul@entri.me

#### Kochi Twitter Developer Group

Kochi twitter developer group are for developers interested in working with Twitter's developer products and APIs. We are a community who bring developers together to share best practices and learn more about the Twitter Platform. Meetups take many forms - from a few people meeting for coffee to talk about what they are building to more formal technical talks and events such as workshops and hackathons. Our goal is to help support local developer communities as they grow. We started activities in October 2016.

For joining, visit https://www.meetup.com/Kochi-Twitter-Developer-Community/ E-mail - shahul@computer.org

## Malayalam Wiki Source

As a part of tenth wikisource project celebration, the wikisource projects in various languages all round the world conducted completions that enrich their content.

Most of the Indian languages don't have a functional OCR solution. Such languages needs much mire manual effort unlike Latin languages. The Malayalam Wikisource community organized a digitization completion in association with various governmental as well as non-governmental establishments and other voluntary organizations with aligned goals.

For joining, Visit: http://www.mlwiki.in/

| Phone - +91 9495513874

#### Mozilla Kerala

Mozilla Kerala is a regional community under the global non-profit organization, Mozilla that is founded on the roots of Free & Open Source Software. Mozilla works to promote & develop the web and to make it a better place to be. Operation of all Mozilla Kerala modules is managed through well-defined SOPs.

A bunch of young people who had similar interests and were working to promote and develop the web came together to achieve the common ambition of Mozilla - and that is how Mozilla Kerala was born. Mozilla Kerala was formed after the first Community Meetup on September 8, 2013 with the motive of promoting the web and the mission of Mozilla to the Keralite masses.



Since then, Mozilla Kerala has been progressing tremendously towards achieving that goal. Mozilla Kerala has been organizing many events throughout the state of Kerala. Mozilla Kerala associates with anything related to the web. We aim to let the whole state and the country and the entire world know the importance of a free and open web, online privacy and other things that matter to an online user through our activities.

For joining, Visit: http://mozillakerala.org Email-akhiljames@live.com

## Swathanthra Malayalam Computing

Swathanthra Malayalam Computing (SMC) is a free software collective engaged in development, localization, standardization and popularization of various Free and Open Source Software in Malayalam language. "My language for/on My Computer" is the slogan of the organization, SMC is perhaps the largest language technology developer community in India and collaborates very closely with government and industry, and serves as an advisory to governmental/semi-governmental organizations that determine the future of Malayalam language on computing devices. SMC also works on developing accessibility support for Indic languages and maintains Dhvani TTS that supports 11 languages. Over the years, SMC has evolved to accommodate developers focused on Indic script based languages and now provides a generic web based Indic language computation framework called SILPA.

For joining, visit https://smc.org.in/

Email -hrishi.kb@gmail.com

#### Tinkerhub

At TinkerHub we provide an open platform for students and other Technology enthusiast to get together, insights into newer technologies and Electronics wizardry. Expert Guides see to it that each project gets completed even through the most complex roadblocks. This helps the students take on any project without second thoughts. Regular visits by industry leaders and tech evangelists ensure that the students get enough mentorship and Guidance when needed. The TinkerHub Knowledge network help identify potential opportunity for the students like fellowships, Internship and Hackathons. This gives a great exposure for the students helping them build their soft skills and find their true potential. We believe these soft skills and technological know how are more important than a regular degree in this new technology age. Garnering these skills are just as important as mainstream college education. The platform , The community and the support ecosystem together helps the students come out to learn skills that matter on their own.

For joining, visit http://tinkerhub.org/ , Email - syamkumarvg@gmail.com

## **Udacity Community**

The Udacity Community (UCommunity) is a platform for all Udacians to meet fellow Udacians and other amazing people in the industry. Explore and indulge in awesome events around the community, share relevant and useful resources.

Learning is driven by curiosity and collaboration. Udacity Communities aim to expand the types of learning patterns and make it more social. Learning together has always proven as a better method of exchanging ideas and knowledge and that is what we are establishing here.

Phone - +91 9497727369



#### Wordpress Meetup Group

The meetup group has been active since 2014, and has made its presence felt in WordCamps all across India. WordCampKochi2017 is being organized by the WordPress Kochi Meetup Group, with the help and support of sponsors, as well as the global WordPress Community. Through WordCamp Kochi, the aim is to popularize the use of the open-source WordPress content management system through valuable and informative sessions, and also to provide a platform to bring WordPress professionals across the world, under a single roof.WordCampKochi is conference about all things WordPress. A community organized event, WordCamp Kochi brings together artists, bloggers, designers, entrepreneurs, software professionals, and web developers, from India, and all across the world

For joining, visit: https://www.meetup.com/Kochi-WordPress-Meetup/ Phone - +91 9497279898

#### **Xamarin Developers Group**

This is a group of developers who are interested in iOS, Android, Windows Phone development using C# and Xamarin. We welcome people to join us who are interested to know more about mobile development using Xamarin, even if they do not have any experience. We will have a mixture of presentations, discussions and demos with plenty of opportunities to get to know each other.

For joining, Visit: https://www.meetup.com/XHackers-Kerala/ Phone - +91 9497727369

### Meetup Cafe

Meetup café is the place for startups/Industries/Institutions and Investors to come together share their knowledge and develop a community, which share common thoughts leading to the overall development of the ecosystem. The café will be developed as Mentor, Expert and investment center for startups across the state. The HNIs, who has the willingness to contribute back community, will find the space functional. The investment and startup support can be pooled systematically by the meetup café. The programme is a one spot center for all technology awareness. Connecting the technical people/ businesspersons, which will altogether bring in cofounders for the startups or leading to new startups etc. Currently Kerala Startup Mission runs two meetup cafes i.e in Trivandrum and Ernakulam KSUM offices.







NAVALT builds electric boats and ferries powered by

SOLAR ENERGY



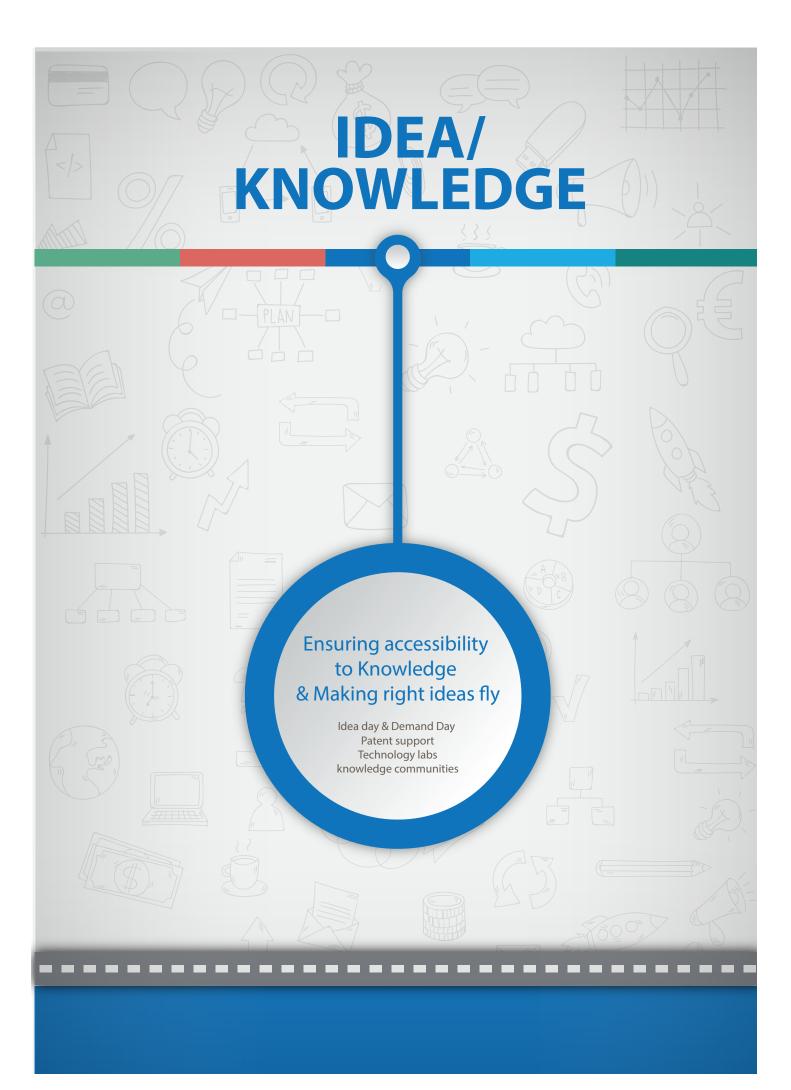
Sastra Robotics India Pvt Ltd is an innovative robotics startup, developing the latest robotic technologies and embedded

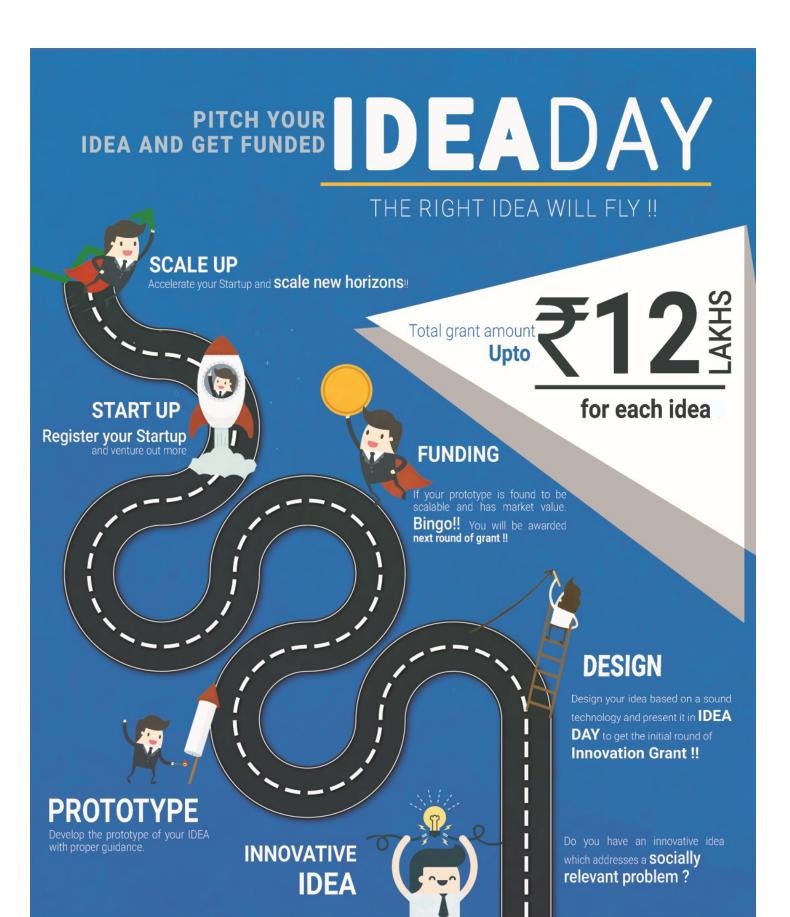
solutions

selected asone of the 50 top startups in theworld

EVERY SINGLE THING YOU ARE
GOING TO SEE IS
FUTURE









# **DEMAND DAY**



The State envisages creation of a vibrant internal market for the IT players and an early adoption market for the startups by virtue of opening up its procurement needs to companies in the state (registered in Kerala or having a billing within the state).

- a. The companies shall be encouraged to take up pilot project with government in their areas of expertise and on success ful com pletion of the same scale it up to a larger scope, subject to approvals by the Government.
- b. The companies are also encouraged to submit suo motto proposals to the government on areas of governance public service and new technology paradigms in the area of health, education etc. The proposals shall be selected through a "SWISS CHALLENGE" process.

#### Guidelines:

- Government department or agencies can directly place orders with startups under Kerala Startup Mission for devel oping applications not exceeding 5Lakh per works.
- Departments could make direct purchases from the list cleared by KSUM upto a cost of 5 lakh and subject to one condition that one purchasing officer cannot purchase more than two applications in one year from one entrepreneur. All together five departments including Police Department and Suchitwa Kerala mission etc had demanded for various applications, and Kerala Startup Mission have ensured the proper connection to startups. Startups are assigned based on the demand from various departments.

# PATENT SUPPORT



As per the Kerala Technology Startup Policy 2014, the cost of filing and prosecution of patent application will be reimbursed to the incubated startup companies subject to a limit of Rs. 2 lakh per Indian patent awarded. For awarded foreign patents on a single subject matter, upto Rs. 10 lakh would be reimbursed. The reimbursement will be done in 3 stages, during filing, prosecution and award. (Clause No. 5.2.7)

It has been approved that since there are not too many student proposals are being received, the scheme may be made open to all startups as per the Startup Policy.

# COMMUNITIES SHARING KNOWLEDGE



# FAYA: 80 -An Open Port for Free Knowledge Sharing

In this era, technological advances have created a niche for themselves in the IT stratosphere. Newer technologies and related developments are happening at a skyrocketing pace. Nurturing the power of being empowered in the right technology at the right time is the need of the hour. FAYA: 80 provides a platform for the technocrats to keep at par with the latest tools and technologies in the IT industry. It inculcates a culture of community of practice for the technologists whereby they ignite the art of knowledge gaining and knowledge-sharing.

Held on the first Wednesday of the month at the Floor of Madness (FAYA, Techno park, Thiruvananthapuram), the series stands for Free Knowledge Sharing and aims to provide an open platform for entrepreneurs, developers and technology professionals to keep at par with the latest tools and technologies. All the meetings till date are live streamed in YouTube.

Started in 2013, FAYA: 80 had 49 editions till date and DISRUPT KERALA 2017 marks the 50th instance. FAYA: 80 will be operating for

An evening in FAYA: 80 starts by sharing last month tech updates, followed by Speaker session. Speaker session illustrates and illuminates the gathering on a latest/relevant topic from tech world. Open talks and interactive problem solving discussions creates an impeccable medium for knowledge sharing resulting in returning audiences.

#### Social links:

Twitter: https://twitter.com/FayaPort80
Facebook Page: https://www.facebook.com/fayaport80/
Facebook Group: https://www.facebook.com/groups/technogeeksonline/

Event Subscription: http://faya-port-80.eventbrite.com Website: https://www.fayaport80.com

#### **SPACE**

SPACE is a registered society that has members from academia, the IT industry, professional societies such as IEEE and Computer Society of India, and the IT Administration of the Government of Kerala. The vision of SPACE is to promote the use of Free and Open Source Software (FOSS) in academics, governance, corporate and individual use, and to support the use FOSS for employment generation in Kerala. The VME model promoted by SPACE envisages a decentralized and distributed mode of IT development where local employment, particularly using FOSS, is promoted and facilitated. SPACE intends to promote more VMEs that can take up different services in Kerala, especially in smaller towns and rural areas.

For joining, visit http://www.space-kerala.org/about-space

# **DIGITAL FAB LABS**

Saarang Sumesh, the 7 year old MAKER. Participated in the Maker Faire at Silicon Valley one of the youngest maker in Keralapresented his maker projects in Fab 12, China Nitin Vasanth Earphones that detect pain: Neurobuds **Gandhian Young** Technological Innovation Award Innovation to empower women award at the 5th season of Accenture Innovation Jockeys functionalities

A Fabrication Laboratory (FabLab) is a technical prototyping platform for innovation and invention that aims at providing stimulus for local entrepreneurship and serves as a platform for learning and innovation. It is a small-scale workshop offering digital fabrication that empowers the users to create smart devices for themselves that can be tailored to local or personal needs. The FabLab also becomes a medium for connecting to a global community of learners, educators, technologists, researchers and innovators — essentially becoming a self-sustaining global knowledge-sharing network.

The FABLAB programme involves setting up state-of-the-art Fabrication laboratories in the state to encourage startups in printed electronics and other such fields. KSUM has associated with Centre for Bits and Atoms, MIT Fab Lab Foundation, USA for this. The fablabs being established in Trivandrum and Ernakulum are identical and mainly comprises of the following inventories. http://fablabkerala.in/

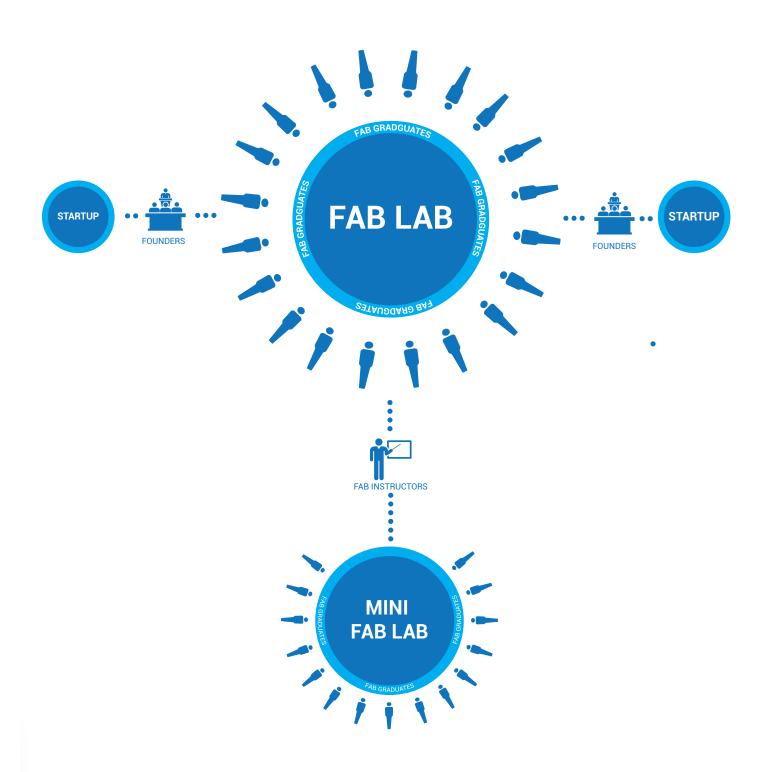
- Laser Cutter
- 2. Large Scale CNC Mill: Shopbot
- 3. 3D printers: Dimension SST 3D printer and Ultimaker 2
- 4. High Resolution Mini NC Mill: Modella
- Vinyl Plotter
- Sand Blaster
- 7. Electronic Components and Tools
- 8. Moulding and Casting
- Electronics Test Equipment's
  - Computers

By setting up the Fablab Kerala Network it is envisaged to encourage the innovation, technology development, product prototyping, maker learning, and commerciziable product development. This will empower the maker-entrepreneurial culture, which at present is confined to ICT/ electronics domain. The Fablab programme will lead to a cross learning culture among multiple technology sectors and create a robust platform for the upcoming entrepreneurs to create indigenous technology products. The Kerala fablabs are a support facility for the maker community comprising of student, startups, entrepreneurs, corporates, individual makers, research groups, academic institutions and universities across India. The Kerala

among the young techno-entrepreneurs, who want to develop their innovative technology idea into product prototypes with fine design

#### Fab Lab (The Rapid Prototyping Centre)

Target Audience -College Students,
Startups and Innovators
Quantity - 2 Main Fab labs for
Startups and 20 Mini Fab Labs for Students
Collegesparticipating: 180
Students traineddirectly 25000
Students Visited Fablabs: 50000
Fab Graduates - 30
Faculties Trained- 20
Prefab trained - 20
Projects developed - 68



# FabAcademy:

Fab Academy teaches principles and applications of digital fabrication. It was developed to teach hands-on skills in fab labs, which began as an outreach project from MIT's Center for Bits and Atoms, and has grown into a global network of more than 500 labs. Fab Academy instruction is based on MIT's popular rapid-prototyping courses How To Make (almost) anything, both taught by Prof. Neil Gershenfeld.

http://academy.cba.mit.edu

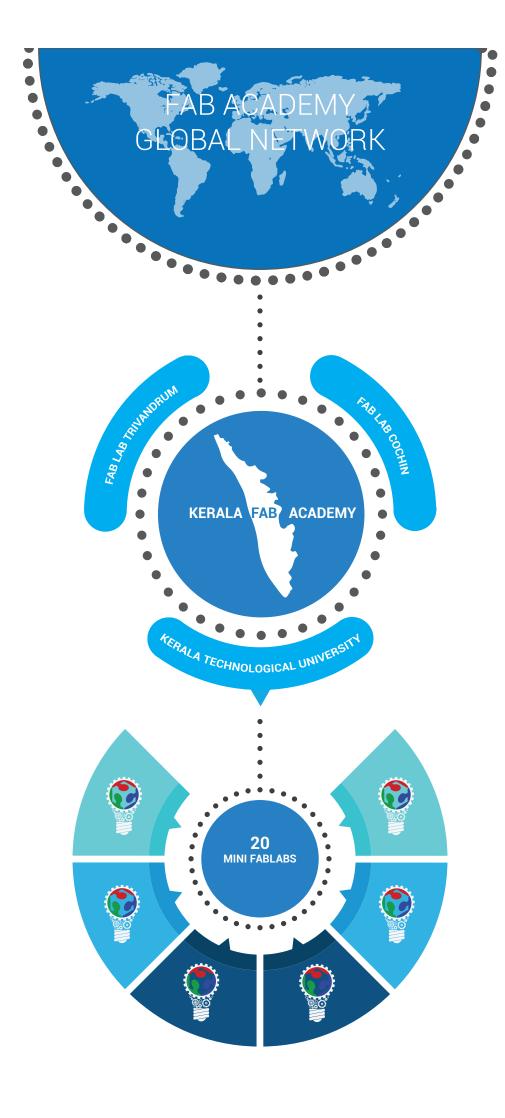
Location: Govt. of Kerala through Kerala Startup Mission (KSUM) has setup two Fablabs each at Technopark, Thiruvananthapuram and Kerala Technology Innovation Zone, Kochi. Fablab Thiruvananthapuram is located at the ground floor of Indian Institute of Information Technology Management (IIITM-K), Fablab Kochi is located in the ground floor of Water Tank Building, Kerala Technology Innovation Zone, KINFRA Hitch Park, Kochi.

## Mini Fab Lab

The project Mini Fab Lab aims to create mini Fab Labs across Kerala in Schools, Colleges etc. This will in turn bring in an in house development facility.

Mini Fab Lab is an effort to bring maker ecosystem to the community. These Fab Labs will be based on Educational institutions and closely adhere to the university's idea of bringing out makers with proven skills in design, development and fabrication. Mini Fab Labs will work closely with the Fab Labs to take advantage of the Fab Network, Fab Academy and other Fab Lab based initiatives. Makers based on Mini Fab Labs are allowed to connect to Fab Lab based makers / Fab Guru's at any point of time through a dedicated channel. This will also make it quite easy to get maker certifications from the Fab Guru, which is a value addition to the degree certificate. Students/individuals based on Mini Fab Labs will also get the opportunity to work at Fab Labs and get them certified as Fab Gurus.

Apart from the Mini fablabs, the Kerala Fab Academy envisages to create open maker spaces in the state. The open maker space will have all the basic machines for prototyping and will be accessible to public. The mini fablabs shall become kiosks for common people to approach in solving societal problems.



## FUTURE TECHNOLOGIES LAB



#### Introduction

Future Technologies Lab is an initiative by Kerala Startup Mission to provide necessary tools, equipment and infrastructure for Research & Development of new & emerging technologies. The lab serves as platform to introduce new technologies to startups & students. The main objective of the lab is to Provide necessary equipments to work on cutting edge technologies.

#### Major Activities of the lab are as follows:

#### 1. Junior Fellowship Program:

The programme creates oppurtunity for young talents to start working in cutting edge technologies by providing equipments and R&D facilities. During the programme the selected fellow will be given necessary support to become a startup or equipped to support a startup.

Fellows are identified based on the projects that they present to the advisory board. They will be working in the lab on their respective projects for a period of 6 months. They will also be actively involved in the various other product development and skill development initiatives by Kerala Startup Mission and Future Technologies Labs.

Future technologies Lab presently houses 10 Junior Fellows working in different projects in the given thrust area.

#### 2. Support startups:

Lab provides necessary equipments and Technical support to the startups through junior fellows. The expertise of fellows in their focus areas can add advantage and direction to startups working in emerging technologies.

#### 4.Library

Future technologies lab has a library with wide variety of books and journals which includes

Books and documents on Patent Support, R&D, Approvals, Standards – ISO, IEC etc, Journal Subscription – Elsevier, Springer etc,

The junior fellows and interns are also working on the content development for lab by documenting their projects. different parts of the world with gives exposure to the junior fellows and startups

#### **5.International Opportunities**

Future technologies lab works to give international opportunities by coordinating Events like NASA Space apps Challenge in kerala. One of the major objectives of the lab includes support to attend international events occurring in

#### FUTURE TECHNOLOGIES LAB

#### **6.Industrial Connect**

Junior fellows and interns will get a chance to work with various industural projects, thus giving them an exposure and conncet for their carrer.

#### 7.Research / Projects

The Junior fellows works on specific projects in Lab's thrust area during the period of their fellowship.

#### 8. Lab Facilities

General Electronics Workshop

The lab has a wide range of general electronic equipments for the testing of electronic circuits and products. These include Oscilloscopes both mixed and digital, Function generator, Logic analyzer and Spectrum analyzer etc.

VR / AR Testing and Development

The Lab has a dedicated space for Virtual Reality / Augmented Reality Development. The featured equipments include HTC Vive, Bluetooth Game Pads, and High end Graphics systems for Real time Rendering for Virtual Reality Applications. The lab will be developing its own full body VR consoles and custom in-house apps for AR,VR and MR.

The more recent equipments like MS Hololens, Oculus Rift etc will be available very soon.

Artificial Intelligence & Machine Learning

The lab consist of a dedicated supercomputer with Tesla P100 - THE MOST ADVANCED DATA CENTER GPU EVER BUILT

Brain Computer Interfacing Testing and Development

This section consists of Open Source Biosensing Tools (EEG, EMG, EKG, and more) Which provide anyone, the tools necessary to sample the electrical activity of the body. With versatile biosensing microcontroller board.

Robotics and Aerial vehicles

The Lab has a dedicated space for the development of Robotics and Aerial vehicles. It consists of necessary flight controller boards, Motors etc.

Development Boards and General Purpose equipments

A wide variety of development boards for almost every possible application is available at the lab and more will be available soon. The range of development boards include Arduinos, Raspberry Pis, Intel Development Boards like Galileo, Edison, Curie, etc, Orange Pis, UDOO Neo IOT DEv Board, Node MCUs, and lots more. The more recent development platforms like Intel Curie, Joule Development board, Beagle Bone Blue, etc will be available very soon.

## future technologies



#### Thrust Areas

- Virtual Reality (VR) and Augmented Reality (AR) Artificial Intelligence (AI) Brain Computer Interface
- (BCI) Robotics

#### Events

by startups. Future Tech Talks: Monthly 1

## IoT LABS



Internet of things (IoT) is becoming an increasingly growing topic of conversation both in the industry and outside of it. It's a concept that not only has the potential to impact how we live but also how we work. IoT had already become a buzzword in the industry and hence opened up employment opportunities for students and market opportunities for startup. The IoT lab initiative will bring the drive to colleges via

- · IoT Hardware Lab
- IoT Trainings
- IoT Hackathons
- loT StartupGo

The market for IoT is exploding, industries such as consumer electronics industry has now become synonymous with connected products. The Internet of Thing Lab is a campus hub focused on learning, research and hands-on experimentation to discover and demonstrate the promise of the Internet of Things. The Internet of Things Lab serves as an exciting multidisciplinary learning and research "sandbox" as well as a thought-leadership and innovation showcase to explore, experience, and extend cutting-edge technologies and use-cases.

## The Internet of Things will transform the way we live, work, and play Why IoT Lab Initiative?

The long view: The Internet of Things is in its early days, and most implementations are still relatively simplistic but that's changing fast, as IoT technology, from end-point devices to data integration and analytics platforms, increase in number and improve in capability. Businesses are beginning to grasp the advantages of IoT both in terms of improving operational efficiency and extending external business opportunities. The IoT labs will bring in both technology and business opportunities by offering a common platform for the labs to communicate and grow in a community driven model.

It's all about the data: Organizations will achieve the business advantages of IoT only when they can capture, sort, piece together, and make sense of that data. That means they need to be able to collect, store, and retrieve data from a variety of devices representing many different operating systems, protocols, and standards. Most college faculties are unaware of the technical aspects in the connected devices world which has moved from two protocols to over 300 protocols. Each of the IoT labs will generate knowledge that will be shared across to bring about a knowledge portal. It's not about reinventing the wheel, but about "thinking inside the box"

# United Nations Technology Innovation Lab (UNTIL)



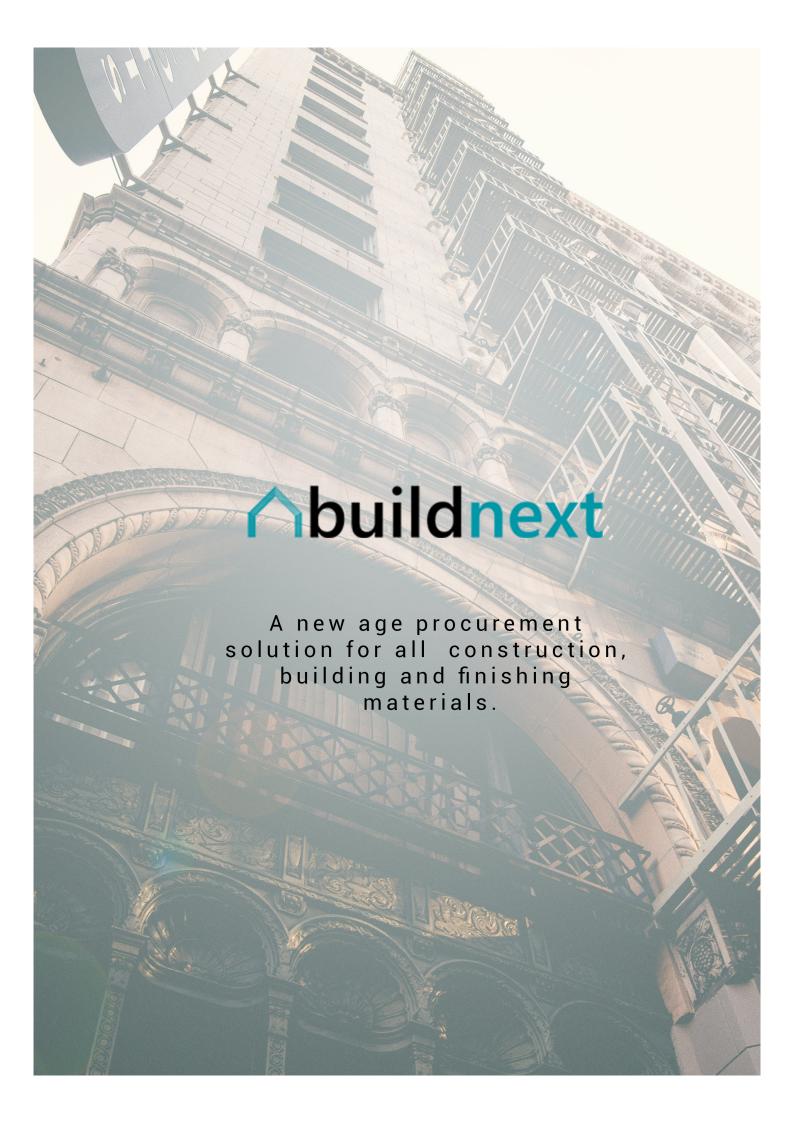
UN technology innovation Labs aims at bringing diverse actors together, usually on an ongoing basis, to generate testable solutions to a series of development challenges. Labs can be hosted within Governments, with private sector partners and/or academia. The first UNTIL in India is about to get forged in the capital city of Kerala under Kerala Startup Mission guidance. UN labs in Kerala will be working on sustainable goals like water & sanitation, mobility and agriculture.

The startups in the state will be working closely with the innovation lab to build products addressing these issues.

The establishment of UN Technology Innovation Lab in the State of Kerala is a big recognition for the startup ecosystem.

The United Nations aims to support member states in harnessing Innovation by creating a permanent place where experts from the UN, academia, private sector and representatives of member states come together to share knowledge, determine best practices and solve problems. The innovation center would serve as a resource centre designed with an intent to train, host and implement models to help the member states.







Unity Living is a web based software solution to manage the day to day activities, accounting and communication in a Residential Complex such as Apartments, Villas, Private Layouts, Row Houses, Gated

Communities etc.

# INCUBATION & ACCELERATION **Incubate & Accelerate** Kerala Startup Mission Incubators & Accelerator Maker Village NASSCOM IAMAI

## KERALA STARTUP MISSION



#### **Kerala Startup Mission**

Kerala Startup Mission (KSUM) the nodal agency of Government of Kerala for entrepreneurship development and incubation activities in Kerala. The primary objectives of K-SUM was to undertake the planning, establishment and management of Technology Business Incubators/ Accelerators in Kerala so as to promote technology based entrepreneurship activities and create the infrastructure and environment required for promoting high technology based business activities. KSUM objectives also include being an apex body for all other incubators in the state to co-ordinate their functions to strengthen the entrepreneurship development activities of the state government, promoting knowledge driven and technology based startup ventures by students, faculties, local entrepreneurs etc., planning and implementing industry institute linkages and networking, setting up of R & D facilities and related facilities, encouraging formation of IEDC and TBI's in academic institutions and capacity building programmes for human resources.

Government of Kerala, through KSUM, is establishing the Kerala Technology Innovation Zone, a global innovation incubator hub for

## Trivandrum Technopark Technology Business Incubator

Kerala Startup Mission (KSUM) formerly known as 'Technopark Technology Business Incubator' is the India's first and most successful Non Academic Business Incubator, hosted and housed inside the Asia Largest IT Park Technopark. Technopark Technology Business Incubator (T-TBI), a joint association of Technopark, Trivandrum and the Department of Science and Technology (DST), Government of India, to help the technology business start-ups, started operation during 2007. KSUM is the pioneer champion among incubators, which functions with a vision to support and nurture the startups in the state of Kerala. It also is the first non-academic business incubator. The Technopark TBI spreads over 20,000 sq ft is situated in the lush green and world class IT infrastructure, The Technopark, the biggest in the continent. Since launching in 2006, our family includes more than 200+ of India's most promising startups.

#### Vision

To become the best Technology Business Incubator in the Asia Pacific region by identifying and promoting the true innovators and entrepreneurial talents all over the region and to bring excellence to the early-stage companies through value enhancement services of technology and business incubation by imparting necessary training in technical & managerial skills to become successful Technopreneurs and Business Enterprises.

#### **Objectives**

KSUM works to achieve the following objectives.

- a. Identify entrepreneurial talents among youths and students to promote an entrepreneurial culture in Kerala.
- b. Introduce entrepreneurial skills to the students of Technical Institutions.
- Address the technology based entrepreneurship development requirements in the traditional sectors of Kerala.
- d. Build appropriate training programmes suitable for Kerala's socio-economic culture
- e. Identify market niche for technology products and services to be addressed by entrepreneurs.
- f. Interfacing and networking among academic, R&D institutions, industries and financial institu-

#### Incubation

Kerala Startup Mission (KSUM) is designed to provide a springboard to budding entrepreneurs who wish to launch themselves into the world of technology based business careers. Entrepreneurs' bright ideas to develop a product or service using advanced technology solutions can find a fertile ground in Kerala Startup Mission. KSUM is designed to provide entrepreneurs all the support to make technology based business ventures successful. The highly innovative and productive environment of KSUM provides entrepreneurs the right ambiance to build up technology ventures at international standards. KSUM is restricted to high tech startups with technology products and innovations within a limited time frame that literraly makes the entrepreneur to seriously work on his product idea and boost him to come up with a 'Market viable prototype.

Apart from KSUM incubators, Kerala startup mission supports all the DST approved incubators in the state. The support is ensured through various schemes that runs through this incubators an also based on requirement and request.

## Calicut UL CYBERPARK Incubator

Kerala is the most exciting IT destination today. With more than 60,000 people working in the Information Technology industry, it is home to more than 250 IT companies which are successfully operating in the state. Most major software development companies are located in the state and have continued to expand due to its success in the last few years of operation and its high potential talent and infrastructure.UL Cyberpark is the first IT park in Kozhikode (Calicut) region. It's being developed as an IT/ITES Special Economic Zone. It's a green building and LEED certified IT Park rated for Gold standards. Kerala Startup Mission at Kozhikode runs KEY accelerator and Mobile 10x incubator other than the Kerala startup mission office and incubations space. As, Kozhikode is also a fast moving technical and business zone, its essential to facilitate the growth and enable an accelerated outcome.

#### **Kerala Startup Mission**

#### Kochi Technology Innovation Zone

Government of Kerala is establishing the Kerala Technology Innovation Zone, a global innovation incubator hub for multiple domains and technology sectors under a single roof. The zone will create world-class infrastructure facilities for multi sector technology incubators to incubate their start-ups and to support home grown enterprises. We also expect the cross pollination of ideas and technology breakthroughs to trigger high value innovations/startups. Kerala Technology Innovation Zone is envisioned as a one stop shop for technology innovation, where everything from the consolidating of the idea, to its incubation, to mentor support for setting up a successful enterprise and even a squadron of angel investors ready to invest in a bankable idea is present. The TIZ acts as a self-sustained ecosystem which serves all the interests of the young innovators and entrepreneurs, so that all the time and energy that they have, goes into product development and not the peripherals such as worrying about the law and lack of funding or infrastructural support.

The zone will also hold separate research facilities for different sectors, which will be funded by the private partners. These facilities will actually spearhead the innovation process that happens in the zone. Dedicated areas will be provided for angel investors and other interested parties in the zone who are interested in investing in any of the sectors. Presently the zone comprise of three technology business incubators in various domains viz: Biotech Incubation Centre (BTIC) for biotech start-ups and Electronics Incubator. All the incubators are separate entities. The Biotechnology Incubator was set up by KINFRA and handed over to KSUM during the time of setting up Kerala Technology Innovation Zone. The BTIC is dedicated for the Biotech incubation. BTIC has around 25,000 sq.ft space and the provide infrastructure facilities and lab facilities for the biotech startus to develop their innovative products. The operations of Biotech incubator and the labs are completely monitored by Rajiv Gandhi Centre for Biotechnology. Presently there are 4 companies under incubation. RGCB has setup a full-fledged research lab with the funding support from Department of BioTechnology, Government of India. KSUM signed MoU with Software Technology Park of India (STPI) to construct 90000sqft of built-up space in KTIZ, which can be given for scale up companies.



## **INCUBATORS**

#### Facilities offered:

DIY innovation Centre:
The centre will have all major open source boards like Arduino, Raspberry pi, Beagle Bone, Intel Edison, IOT boards, actuators, robotic kits, sensors etc. that would enable rapid prototyping for the startups

#### PCB Assembly line:

A 25000 CPH assembly line for SMT boards will be developed with the aim of assembly of PCB so that startups can develop their final products of the highest qualityTesting and Measuring Equipment, workstations, 3D printers: The incubator will house advanced equipment for measurement and testing like Mixed Domain Oscilloscope, LCR meter, Bench top Multimeter etc., high-end workstations for product design and 3D printers for

Electronics Workbench: The incubatees will be provided soldering stations, multimeters, function generators, DSO etc. for the development of their product and all types of tinkering. Incubated: 9 companies

#### **MAKER VILLAGE**

MAKER VILLAGE is a joint initiative between, Ministry of Electronics and Information Technology (MeitY) and Indian Institute of Information Technology and Management Kerala (IIITM K), the nodal agency of the project, Kerala Startup Mission and Govt of Kerala to promote consumer electronics based innovation and set up labs and innovation centers that focus on the current trend and emerging technologies of disruptive nature to bring India to the forefront of innovation in the electronics space. Kerala Startup Mission for the Electronics Incubator has developed a 25000 sq ft facility at the Technology Innovation Zone, KINFRA Hitech Park, Kochi.

An area of focus would be smart wearable that has recently grown to a billion dollar industry and it is proposed to have a facility that would assist innovators design and develop sophisticated wearable tech using the latest rapid prototyping equipment, in the belief that the best of this technology would come from India. The Do It Yourself (DIY) Innovation center will cater mainly to emerging areas in the maker culture. The Microprocessor and Microcontroller area will have all the latest trailblazers of Do It Yourself (DIY) proponents like Arduino and Raspberry PI aimed at inspiring the startup community to create innovative electronic products

Robotics is an area where India is behind global peers and the Robotics area is instituted to address this gap by developing facilities with robotic actuators and kits that would enable innovator for fast paced development of prototypes

The Internet of Things (IOT) is the future of the world where every object is equipped with sensors and connected to the Internet which would create limitless new opportunities for individuals and businesses. Its potential is so significant as to spawn the next Facebook or Google, in the form of a visionary company that successfully combines hardware and software to provide a global platform for IOT objects and the innovation centre will be at the forefront of this change by making use of the synergy between the different labs and the multitude of talent among the startups

#### Objectives of the project:

The Electronics Incubator at Cochin, Kerala will primarily create a sustainable ecosystem that will enable startups and entrepreneurs in the electronics sector to build break and innovate, leading to products that will change the landscape of the Indian economy and the macro level objectives will be achieved by:

- a. Creation of new enterprises focused on Consumer Electronics.
- b. Providing entrepreneurs access to infrastructure that facilitates manufacture of electronic hardware in a cost effective and sophisticated manner.
- c. Mitigate the risk that startups face while manufacturing elec-

#### **Incubators**

- Address the technology based entrepreneurship development requirements in the traditional sectors of Kerala.
- d. Build appropriate training programmes suitable for Kerala's socio-economic culture
- Identify market niche for technology products and services to be addressed by entrepreneurs.
- f. Interfacing and networking among academic, R&D institutions, industries and financial institutions
- g. Undertake Research & Development activities and build a workable model of technology based Entrepreneurship in Kerala

#### IAMAI- Mobile 10x

The smartphone boom has paved the way for a mobile revolution and as of now, India is home to 350 million Internet users out of which 160 million users access it on a mobile phone. This number is expected to shoot up to 700 million by 2020. However, despite being home to 3 million software developers, only 1% of Indian mobile apps feature in the top 1000 Global Apps and none in the top 100. Towards the twilight of 2018, India will be home to 4 million software developers. With a vision of tapping the potential and providing an effective launch pad for the app developers, Internet And Mobile Association Of India (IAMAI)has launched the 'Mobile 10X' initiative. Backed by the IAMAI members, the initiative is focused on making India, a 'Global App Superpower' via building a large pool of quality app developers both locally & globally. The initiative has the motive of 10 Xing the Quality, Quantity and Revenue of the mobile app ecosystem within 3 years.

Mobile10X facilitates app developers to flourish in this eco-system. These hubs will be equipped with a testing lab, a design lab along with co-working spaces. The developers will be allowed to work for free and the costs will be borne by the founding members.

Mobile 10x Kerala will be operating at UL Cyberpark Kozhicode, which will enhance and empower the developer community in Keral to new heights. As the facilities ensured in Mobile 10x labs are of international standards, giving and enabling Kerala startups to showcase their products worldwide.

#### STARTUP DREAMS

Success and luck are matter of preparation meeting opportunity. As an agency KSUM strives forward by creating opportunities equally baring no one. Kerala Startup Mission, with the support of Government of Kerala, Scheduled Caste Development Department (SCDD) set up the "Startup Dreams" at Ambedkar Bhavan, Mannanthala, Thiruvananthapuram, with the objective of encouraging the startup ventures and entrepreneurial insights of inclusive communities in multiple sectors. Startup Dreams offers incubation support for startups from these inclusive communities by providing co-working space with basic amenities, entrepreneurship development training programmes, leadership building workshops, other capacity augmenting sessions and events. The incubatees are also administered through one to sessions, entrepreneur experience sharing and mentoring classes. FAB lab visit and introduction to various upcoming technologies are also bestowed upon wannabe entrepreneur. Objectives

- Startup Dreams is a social sector initiative that will be implemented statewide in order to
  promote entrepreneurship amongst the SCs/ STs, OBCs. Aspirants are oriented in the direc
  tion of innovation and fast growing technologies to pursue their entrepreneurial career.
- To identify potential entrepreneurs among these communities and provide support to their startup ventures with competent technology products and by conducting congregation, training and skill development programmes for capacity building.
- To increase financial inclusion for SC entrepreneurs and to motivate them for the further growth of SC communities.

Last year batch achievements: Infrastructure – Shifted to Bigger Space -4 start-ups,Seed Funding-1 Start-up

#### **Incubators**

10,000 Startups.

#### **NASSCOM Startup Warehouse**

'An Oasis of Meeting Minds: Inspire, Motivate and Propel Each Other'

'Start-up Warehouse' is a mosaic, which binds startups and entrepreneurs together in a novel working space, with an electric atmosphere that ensures sustained inspiration. Numerous startups co-exist and work together in a well-equipped space with modern infrastructure at very nominal rates. Challenging tasks accomplished in fun and exciting spaces ensure that one is always charged up and buzzing with creativity to challenge problems. 'Plug-and- Play' workspaces ensure that startups need to focus their energies only on their technology products and not waste them on mundane logistical space issues. Entrepreneurship is a different ball game altogether and interacting with people who are playing 'your' game is reassuring and motivating —madmen, aka fools, who applaud and encourage each other. The start-up warehouse has been launched in support with the Kerala Govt. to build entrepreneurial capabilities in the state of Kerala, create a vibrant community to connect investors, mentors and start-up entrepreneurs, and building tech-entrepreneurship as a preferred career option. The warehouse will be managed by NASSCOM's 10,000 Start-ups program. The steering committee of Start-up Warehouse, Kochi includes CEO, Kerala Start-up Mission, CEO, Infopark, CEO, Suyati Technologies Pvt.

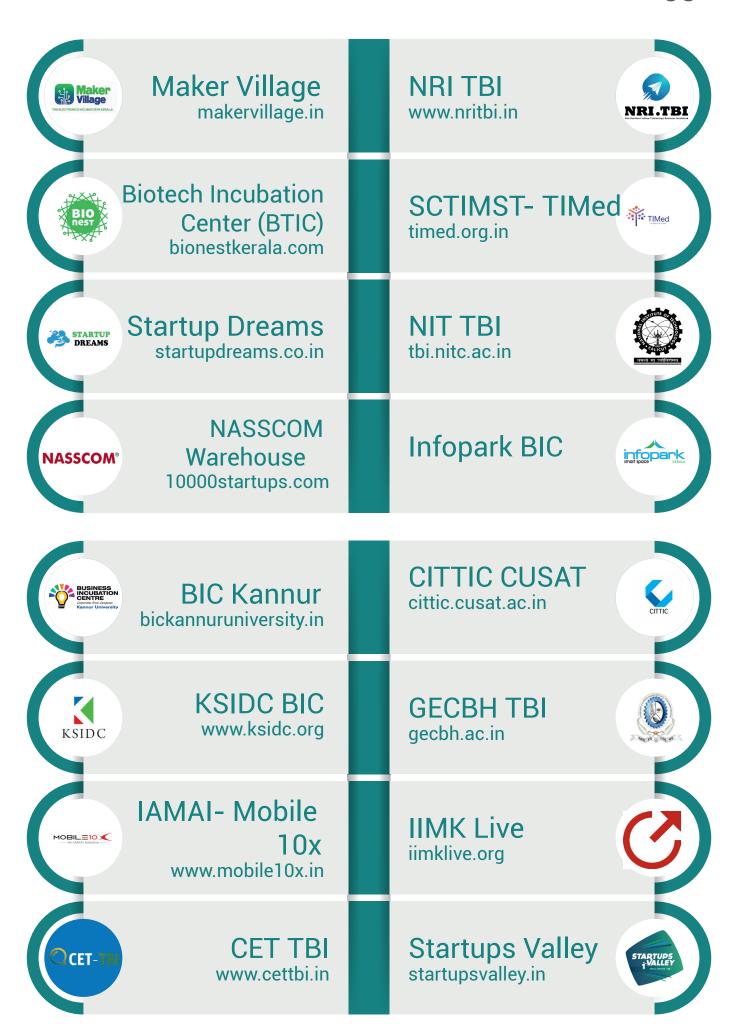
In 2013, NASSCOM 10,000 Startups launched its first start-up warehouse in Bangalore followed by its second warehouse in Kolkata. It further announced Start-up warehouse in Navi Mumbai & Pune in support with Govt. of Maharashtra and recently in Gurgaon in support with Govt. of Haryana.

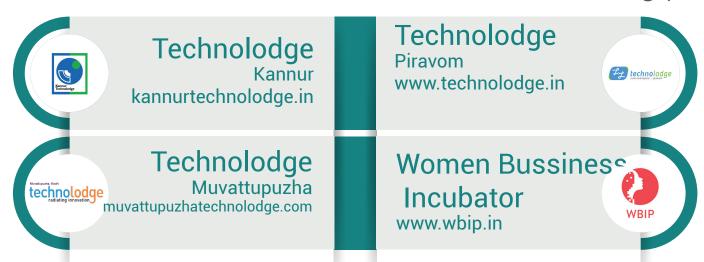
Ltd., Global Head for Development Center Operations, UST Global and Deputy Director, NASSCOM

The 10,000 Start-ups program has initiated start-up warehouses across different states to create a micro-ecosystem where many start-ups and entrepreneurs can work together and share their experiences with each other. The environment will result in a collaborative approach and a rub-off effect of working alongside with people who share a passion towards solving some of the problems faced by society, consumers, businesses etc. The key philosophy behind the initiative is to provide start-ups with- affordable and accessible space, Plug and play services, co-working space, mentor support, workshops and start-up events

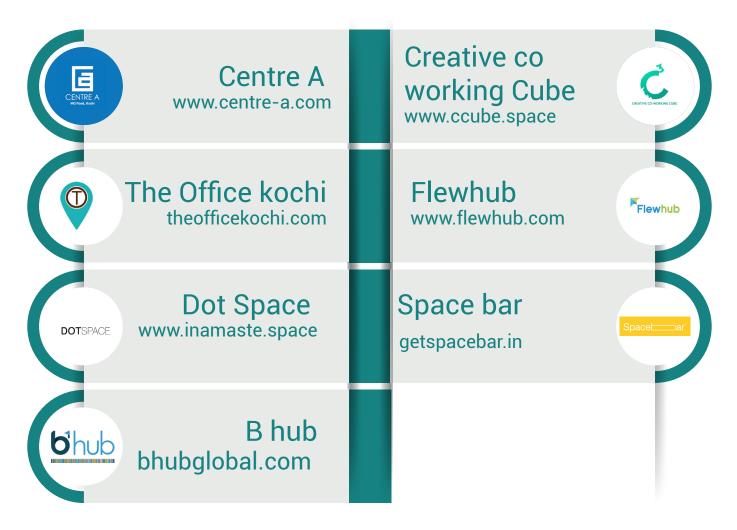
# Identifying and promoting the true innovators and entrepreneurial talents all over KERALA







#### **CO WORKING SPACES**



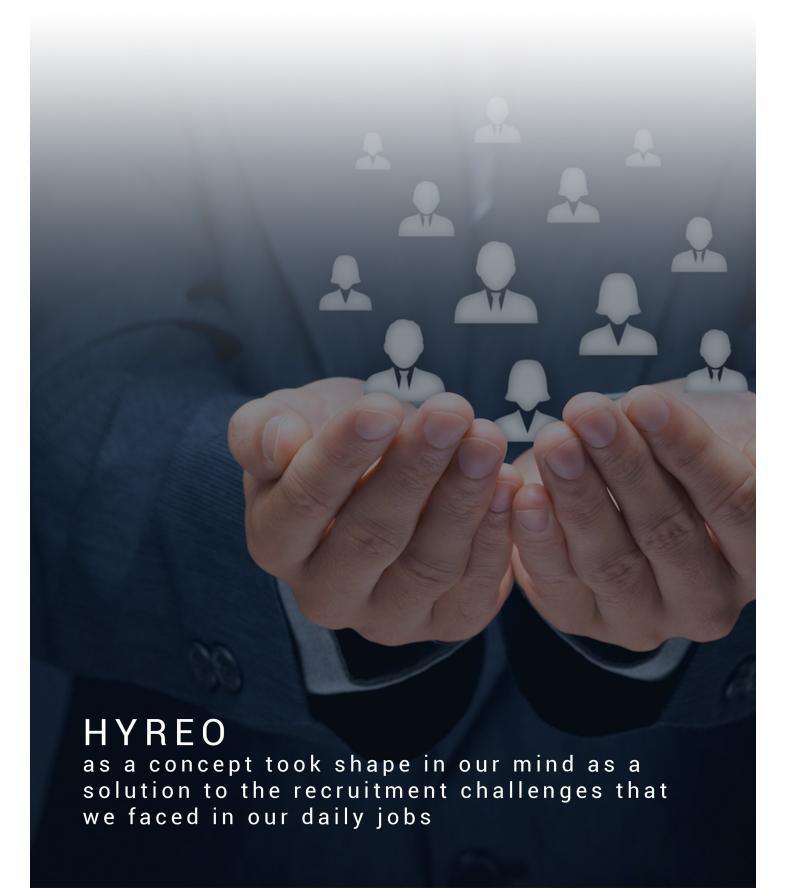
#### **ACCELERATORS**

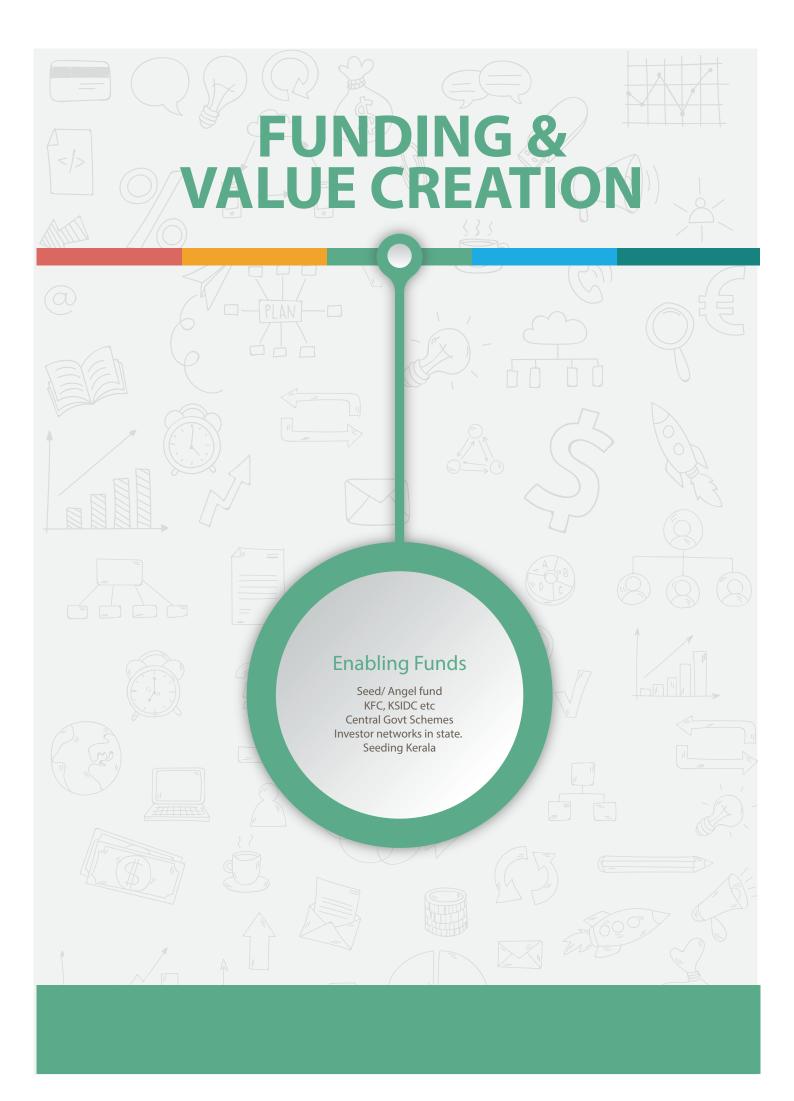




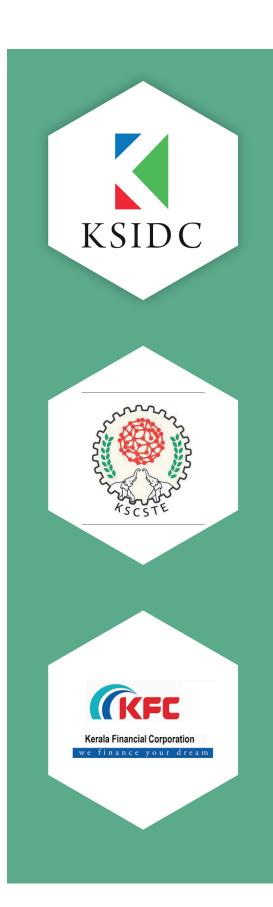
Our
communities
help you navigate
your professional
journey







# GOVERNMENT OF KERALA SCHEMES



## DIRETORATE OF INDUSTRIES AND COMMERCE

#### 1. Entrepreneur Support Scheme (ESS)

Eligibility: All MSMEs engaged in manufacturing activities are eligible for assistance.

Overview: The extend support to micro, small and medium enterprises by optimal utilization of funds and by giving more flexibility of operation

Sanctioning Authority: All assistances under the ESS shall be sanctioned by The General Manager (District Industries Centre) - For startup Support

- District Level Committee For Fixed Capital Investment below Rs. 200.00 lakhs
- State Level Committee For Fixed Capital Investment above Rs. 200.00 lakhs

#### **Fiscal Incentives**

- Investment in Land, Building, Plant & machinery, Electrification, Essential Office Equipments, Pollution Control Devices and other fixed assets are eligible.
- For General Category Assistance is 15% limited to Rs 20 lakhs
- For Young (18 to 45 years), Women and SC/ST entrepreneurs, the assistance is 20% limited to Rs 30 lakhs
- Enterprises in priority sector is eligible for an additional assistance of 10% limited to Rs 10 lakhs
- MSMEs started in the districts of Idukki, Wayanad, Kasargode and Pathanamthitta are eligible for an additional support of 10% limited to Rs 10 lakhs
- Industries setup after acquiring new technology from approved research institutions are eligible for an additional support of 10% limited to Rs 10 lakhs
- The total eligible assistance for an enterprise is limited to Rs 30 lakhs

#### Stages in Entrepreneur Support Scheme

1st stage - The Startupsupport is provided for enterprises prior to commencement of commercial production. The assistance is limited to 50% of the total eligible support limited to Rs 3 lakhs on sanctioning the term loan from the bank.

2nd stage – The InvestmentSupport is provided after the commencement of commercial production. The entrepreneurs shall apply within one year from the date commencement of production. Enterprises undertaking Expansion, Diversification and Modernization are also eligible for invest support.

#### Government Of Kerala Schemes

#### 2. Assistance Scheme for Handicrafts Artisans (ASHA)

Overview: The Assistance Scheme for Handicrafts Artisans( ASHA) replaced the existing Scheme "Entrepreneur Assistance Scheme in Handicrafts" and aims to bring the artisans in the handicrafts sector under the ambit of a Single Scheme for availing financial assistance in the form of grant assistance for setting up handicraft enterprises. ASHA provide extensive Support to Artisans in the Handicrafts Sector for setting up Handicrafts-based micro enterprises. Also, for the eligible applicant, a one-time support is provided as back end assistance in the form of grant upon commissioning of the enterprise and after filing EM Part II/ Udyog Adhar.

Eligibility: The applicant should be enrolled as an artisan/craftsman under the office of the Development Commissioner (Handicrafts) or Surabhi, HDCK Ltd., KELPALM, KSBC, KADCO. The Artisan has to apply in the prescribed format with copies of bills/ vouchers/ invoice/ assessments in support of the investments claimed as FCI. There is no fee charged for applying for assistance.

Sanctioning authority: General Manager, District Industries Centre will be the sanctioning authority. The amount will be disbursed through bank.

Fiscal Incentives: 40% of the expenditure on Fixed Capital Investments (FCI) subject to a ceiling of Rs.2 lakhs and 50% of the expenditure on fixed capital Investment for women, SC/ST and young artisans subject to a ceiling of Rs.3 lakhs will be given as assistance. The principal elements of Fixed Capital Investment include the cost of constructing work shed/workshop, essential tools, equipment, machinery and accessories and electrification. Technology transfer fees/consultancy charge/Product/Design development charges will be considered for financial assistance. http://industry.kerala.gov.in/index.php/schemes/asha

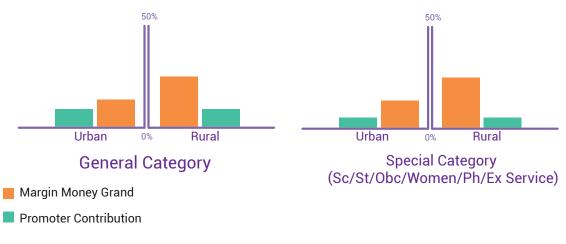
#### 3. PM's employment generation programme

Overview: PMEGP is credit linked Scheme of Govt. of India by merging erstwhile REGP and PMRY scheme. During 2015-16, 734 units were assisted with Rs1081.61 lakh creating employment to 3902 persons.

SanctioningAuthority: The Scheme is implemented through KVIC and State/UT Khadi & V.I. Boards in Rural areas and through District Industries Centres in Urban and Rural areas in ratio of 30:30:40 between KVIC / KVIB / DIC respectively.

Eligibility: Assistance under the Scheme is available only to new units to be established and per capita investment should not exceed Rs. 1.00 lakhs in plain areas and Rs. 1.50 lakhs in Hilly areas.

FiscalIncentives: The rate of subsidy is 15% - 35% of project cost which would be paid to the loan account. The Margin to be brought by the promoter is 5% of the project cost for Special category (SC/ST, OBC, Minority, Women, PH and Ex-Service men) and 10% of the project cost for General category. The maximum project cost can be Rs. 25.00 lakhs in manufacturing sector and Rs. 10.00 lakhs in Service Sector.



#### **Government Of Kerala Schemes**

#### Kerala Financial Corporation (KFC)

Loan schemes / interest rates

The Corporation would endeavor to extend comprehensive services including term loan, working capital and special schemes that may be required for benefit of the SME sector. The Interest and principal are to be paid in monthly rests for all schemes. The extent of financing is based on the type of the project and credit rating. Interest rates, extent of financing and maximum period of loans are given below:

http://www.kfc.org/loan-schemes.php

#### Kerala State Council for Science Technology and Environment (KSCSTE)

#### 1. Scheme for promoting young talents in science (SPYTIS)

Sanctioning authority: Kerala State Council for Science, Technology and Environment has launched a special programme called Scheme for Promoting Young Talents in Science (SPYTiS). Eligibility: Students from schools, polytechnic colleges and those admitted to undergraduate level

SPYTiS- I: Under the scheme, a group consisting of 2 or more students of Class VIII-XII from a school will be selected for the award (Rs.5,000/-) for doing a science project. The duration of the project is one year.

SPYTiS-II: Under the scheme, the students who have innovative ideas in science & technology and enrolled in polytechnic colleges and undergraduate courses in colleges will be provided financial assistance of Rs.10,000/- for conducting projects. The support will be essentially project based and will be given for a period of one year.

Features: Under both schemes, grant will be sanctioned to the host institution and the student has to work under the guidance/supervision of a teacher. The awardees shall be requested to participate in a Science Talent Fair, Children Science Congress or Kerala Science Congress organized by KSCSTE for presenting their projects/findings.

Duration: One year for both schemes (SPYTiS-I&II).

#### 2. Rural Technology Programme (RTP)

Overview: The Kerala State Council for Science, Technology & Environment (KSCSTE) is an apex body which promotes R&D programmes in rural technology sector by providing financial support for the implementation of the project proposals. Rural Technology Programme (RTP) is envisaged to encourage and promote grassroot innovators and individuals to support them so as to perfect their innovative ideas in rural technology sector.

#### Eliaibility

- Faculty of Research Organizations/ Academic Institutions/ Non Governmental Organizations in this field.
- Grass root innovators
- Individuals

SanctioningAuthority: Ten copies of the project proposal in the prescribed format should be submitted to Joint Director, KSCSTE. The Technical Committee for Rural Technology Programmes (TC-RTP) evaluates the project proposals. The project proposals may be submitted throughout the year.

FiscalIncentive: A financial grant up to Rs.4 lakhs is awarded based on the recommendations of TC-RTP to the Tie-up institution, where the innovator/Principal Investigator intends to carryout research / implementation of the project. In addition, the tie-up institution will be eligible for an overhead @ 10% of total project cost.

TimePeriod: 2 years

http://www.kscste.kerala.gov.in/

## SEEDING KERALA



How to Invest in Startups & How Startups has to prepare to get funding from investors.

The seeding Kerala was organized to bring together like-minded investors who wish to invest in start-ups. The functioning of start-ups in Kerala is generally satisfactory is what the opinion of investors. Government is keen to take the association with the investors to bring more investments in the state.

The investor connects and investor education is a vital part. HNI s' as well as investor networks needs knowledge on how to identify and invest in startups. Investing in startups is always an art of identifying best team who has the passion to build their own venture. Working closer with the startups will enable the investors to get a deep idea on the technology updates as well as the trends of startups who are investable in the country. Kerala Start up Mission identifying the scope of getting together the HNIs' in the state who can invest in the startups thereby creating a trend within the state for supporting home grown startups can be kick started by the effective participa-

Kerala Startup Mission, Let's Venture and Konglo joined hands to bring in government decision makers, Venture capitals, potential investors, and fund awaiting startups together in Seeding Kerala V.1 and V.2. The events marked an audience of 200+ entrepreneurs and a 30+ potential investors in the presence of IT Secretary and the venture capital firms namely Exseed fund, Ankur Capital, Let's Venture, Matrix, Unicorn Ventures, Qualcomm Ventures, Sea fund etc. Investor



## CENTRAL GOVERNMENT SCHEMES



## Department of Electronics and Information Technology (DeitY)

Scheme To Support IPR Awareness Seminars/
Modified Special Incentive Package Scheme (M-SIPS)
Electronic Development Fund (EDF) Policy
Multiplier Grants Scheme (MGS)
Support For International Patent Protection
In Electronics & Information Technology (SIP-EIT)



Department of Electronics and Information Technology



Software Technology Park (STP) Scheme





#### Biotechnology Industry Research Assistance Council (BIRAC)

Biotechnology Ignition Grant (BIG)
SPARSH (Social Innovation Programme For
Products
Affordable & Relevant To Sociated Health)

Affordable & Relevant To Societal Health)
Industry Innovation Programme On Medical
Electronics (IIPME)
Biotechnology Industry Partnership Programme (BIPP)



#### Department of Biotechnology (DBT)

Rapid Grant For Young Investigator (RGYI)

#### Department of Science and Technology (DST)

Science And Technology Of Yoga And Meditation (SATYAM)











#### Council of Scientific & Industrial Research

Promoting Innovations In Individuals, Startups And MSMEs (PRISM)

Science and Engineering Research Board (SERB)



Extra Mural Research Funding
Technology Development Programme (TDP)
High Risk-High Reward Research
Industry Relevant R&D: http
Assistance To Professional Bodies & Seminars/Symposia



and Technology

#### Department of Science and Technology (DST)

National Science & Technology Management Information System (NSTMIS)





Growth Capital And Equity Assistance Startup Assistance Scheme SIDBI Make In India Soft Loan Fund For Micro Small And Medium Enterprises (SMILE) Stand Up India 4E (End To End Energy Efficiency)



#### Micro Units Development and Refinance Agency Ltd. (MUDRA)

Pradhan Mantri Mudra Yojana (PMMY)



#### Department of Heavy Industries (DHI)

Enhancement Of Competitiveness In The Indian Capital Goods Sector



#### NITI Aayog

Scale-Up Support To Establishing Incubation Centres

#### **Atal Innovation Mission**

NITI Aayog

Atal Tinkering Laboratories (ATL) Atal Incubation Centres (AIC) Atal Incubation Centres

#### National Small Industries Corporation (NSIC)

एन एस आई सी NS 9001 : 2008 National Small Industries Corporation

Bank Credit Facilitation Scheme Infrastructure Development Scheme

Single Point Registration Scheme (SPRS)

• Raw Material Assistance

Performance & Credit Rating Scheme

#### Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE)

Credit Guarantee

#### Office of the Development Commissioner (MSME)



Credit Linked Capital Subsidy For Technology Upgradation International Cooperation (IC) Scheme National Awards (Individual MSEs): http MSME Market Development Assistance Aspire – Scheme For Promotion Of Innovation, Entrepreneurship, And Agro-Industry

#### Khadi and Village Industries Commission

Revamped Scheme Of Fund For Regeneration Of Traditional Industries (SFURTI)

#### NewGen Innovation and Entrepreneurship Development Centre

NewGen Innovation And Entrepreneurship Development Centre



#### **Green Energy**

Small Industries Development Bank of India (SIDBI)

Sustainable Finance Scheme

#### Indian Renewable Energy Development Agency (IREDA)



Credit Enhancement Guarantee Scheme Loan For Rooftop Solar PV Power Projects Bridge Loan Against Generation-Based Incentive (GBI) Claims Bridge Loan Against MNRE Capital Subsidy \*REDA Scheme For Discounting Energy Bills National Clean Energy Fund (NCEF) Refinance

### **Agriculture**





National Bank for Agriculture and Rural Development (NABARD)

Dairy Entrepreneurship Development Scheme

Coir Board

Coir Udyami Yojana

Small Farmers' Agri-Business Consortium (SFAC)

The Venture Capital Assistance Scheme

## **SEED FUNDING**



#### Kerala Startup Mission

The seed funding is given to the startups from 2006, at first the process was not online and there were delays in the execution. Later on Sep 2015 on wards Kerala Startup Mission launched its online portal and the applications where collected online. Then onwards the frequency in executing the seed fund has increased. Seed funding is granted to the start-ups up to Rs 10 lakh, and collateral support is asked.

Kerala Startup Mission is providing seed support to the startups in the ecosystem by a review mechanism. The startups in the Kerala Ecosystem has to register via website and the link is as followshttps://startupmission.kerala.gov.in/support/register.

The startup who are registered in the website can directly send the requirement of seed fund to surya@startupmission.in .The application will be verified in the portal on the credibility of particular startup and then they will be taken to the expert panel, which is a review meeting for releasing the seed fund. There is monthly review meeting for releasing the seed fund to the startups.

### The procedures followed for fund release are as follows:

- Online Start-up company registration in Kerala Start up Mission website
- Online validation of the Start up company who request for seed funding
- After validation the request will be put forward to an Expert committee which comprises of technical experts, financial experts and Marketing experts from the Industry.
- The Startup will then pitch their product along with the timeline for execution and utilisation the fund to the expert committee.
- Upon approval by the committee KSUM shall release the fund in two/three instalments.
- The full process happens in three week time. The start-ups will be given cheque at the end of third week on application of seed fund.

Total 35 companies have applied for the Seed funding of which 27 companies have been granted the fund. Other companies were requested to iterate their business model/refine the product.

Total 43 companies supported with seed funds.

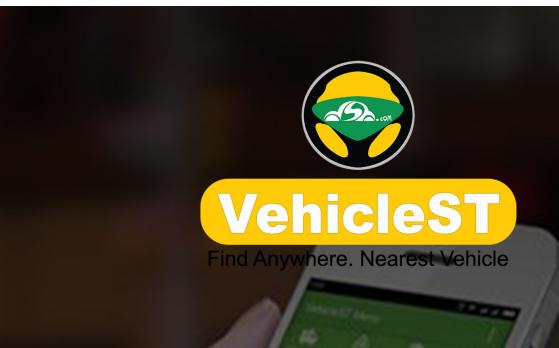
131 Lakhs

#### **Seed Funding**

#### Kerala State Industrial Development Corporation (KSIDC)

#### Criteria for Seed Funding

- 1. Seed Funding shall be provided to innovative ventures/potential start-ups promoted by Young Entrepreneurs, subject to a maximum of Rs 25 lakhs per venture or 90% of the initial cost of the project, whichever is lower.
- 2. Seed Funding shall be made available to promoters who have incorporated/intends to incorporate Limited Companies for implementation of the venture.
- All the Seed Funding proposals have to be accompanied by a proper Business Plan.
- 4. The promoters have to furnish details as per the Know Your Customer (KYC) norms.
- 5. Promoters' Credit Report shall be submitted from Banks/Financial Institution.
- 6. Project evaluation shall done by KSIDC though due diligence of the venture and also entrepreneur assessment.
- 7. The seed fund assistance if sanctioned shall be treated as Soft Loan to the Company for a period of one year
- 8. The Company shall take necessary steps to convert the soft loan into Equity Capital at face value within one year from the date of disbursement subject to the condition that the shareholding of KSIDC shall not exceed 49%. If the Company fails to comply with this condition within one year, the Soft Loan shall be recalled and would become repayable, together with applicable interest, worked out at the bank rate (presently @ 6.50% per annum) as on the date of sanction of financial assistance.
- 9. After conversion of the Soft Loan into Equity, if other investors are identified for major capital infusion for scaling up or commercialization of the project, then KSIDC shall have the option for exit from the venture either by sale of investment to the intended buyers or buy-back of shares by promoter-directors, which shall be based on the independent investment valuation. If the Book Value or Face Value of shares is more than the price offered by the investors, then the Shares would be sold at higher of the Book Value or Face Value.
- 10. In the case of willful abandonment of the project or company by promoter-directors, soft loan shall be demanded at funds disbursed plus simple interest from the date of release, worked out at the bank rate (presently @ 6.50% per annum) as on the date of sanction of financial assistance.
- The Promoter-Directors shall not sell or transfer or alienate their equity holding in the Company without prior written consent of KSIDC, which shall be subject to standard conditions on Right of First Refusal for Co-Sale and Tag-Along Rights.
- 12. All proprietary rights, patents, trademarks, logos, copyrights, licences etc., and all revenue streams of the Project approved by KSIDC for which the Seed Fund assistance has been sanctioned, shall be in the name/favour of the Company.
- 13. The Company shall not undertake any new project or expansion or diversification without the prior sanction of the Corporation, so long as the Corporation holds shares/soft loan in the Company.
- 14. KSIDC shall have the right to appoint a Nominee Director or an Observer on the Company's Board as long as KSIDC holds shares /soft loans in the Company.
- 15. There shall not be any change in the share holding pattern of the company in the company without prior written consent of KSIDC http://www.ksidc.org/startups.php



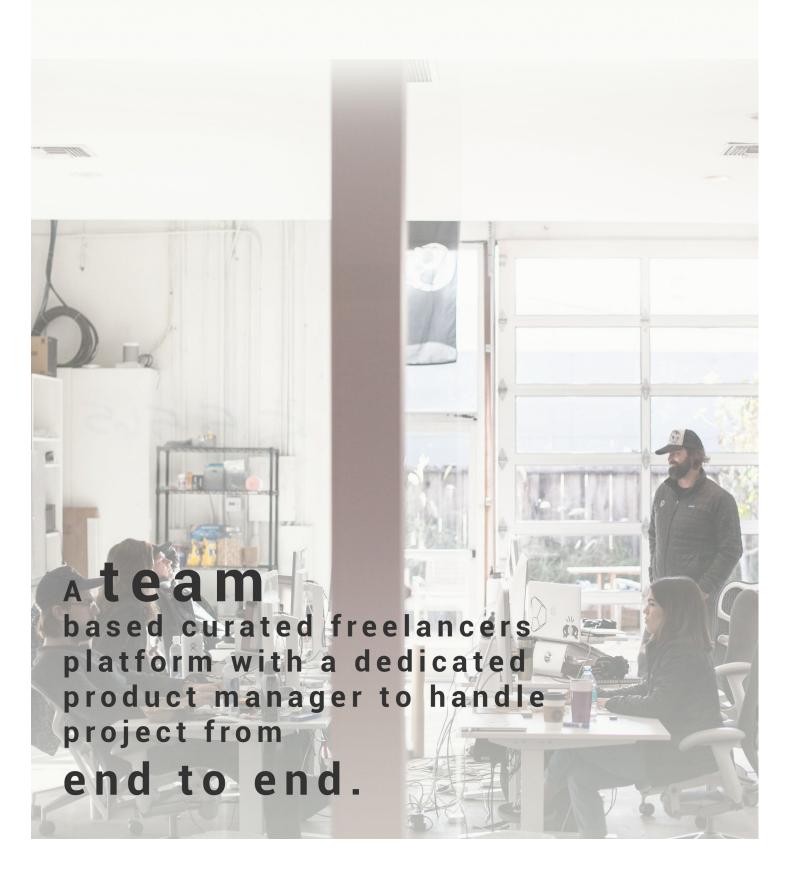
## VehicleST

primarily aids our customers to find a safe and secured mode of transport, ranging from auto rickshaws to chartered flights across the country





## SIEVE



# ENTREPRISE **Sustainability Measures** TIFP Fellows IIM K MDP UNEMPERTEC International exposure Industrial connect Networking opportunities

# International Entrepreneurial Exchange Scheme:



The International Entrepreneurship Exchange Programme is a combination of schemes aimed at giving the students and young entrepreneurs and innovators of the state maximum exposure to the international startup ecosystems and also to foster cooperation between startup ecosystems across the world.

The programme involves taking student/young entrepreneurs to the most advanced/mature startup destinations, such as the Silicon Valley, Menlo park, USA, London, Tokyo, Tel Aviv, etc. for an exchange programme where they interact with startups/clients in that ecosystem. This will enhance marketing/funding opportunities for the local startups and also give an international exposure for their products. As per Kerala Technology Startup Policy, Clause 3.7; An international startup programme would be set up to send the most brilliant startups, college and school students to leading startup destinations around the world for getting global exposure at a young stage. Select college principals and teachers would also be send for gaining international exposure to learn about startup culture in universities like Stanford, Harvard and MIT and see how MOOC's are being used in various schools and colleges for education. Similarly tie-ups may be setup to bring world-class startups to work alongside startups in Kerala for faster learning and cultural exchange. The programme would be executed by K-SUM.

#### Guidelines

The guidelines for the two specific schemes under the program are:

#### A. International Visits:

- 1. Startup entrepreneurs (maximum of two founders/executives from each startup) from DST approved TBI's or startups registered with K-SUM, for participating in various international workshops, exhibitions, competitions and other invited events or for business visits, funding, marketing support, etc. Prior to the visit, the startups may submit detailed proposal specifying business need with budget to K-SUM for approval.
- Makers and innovators are provided with oppurtutnities to explore the global network by participating on global events and conferances.
- 3. Startups are eligible for reimbursement of 50% of the travel ling expenses or Rs. 1 lakh, whichever is the lowest per start up entrepreneur.
- 4. Travelling expenses includes Visa charges, flight charges (to & fro) and inland travelling cost.
- 5. The expenses may be reimbursed on submission of a detailed report on the outcome of the visit along with the original invoices.
- 6. Startup entrepreneurs (maximum of two directors from each startup) from DST approved TBI's for participating in various international workshops, exhibitions, competitions and other invited events.

#### B. Silicon Valley Visit:

- The startups are eligible for two way ticket charges and \$150/ day for domestic travel, food and accommodation for not more than 15 days.
- The program shall be applicable to one person per startup.

  A detailed report on the outcomes of the visit has to be submitted to K-SUM. 3.
- This program shall primarily for student startups from bootcamps and applications shall be called for once every year. The programme shall be in line with the Startup Policy.

# Start-up Community Partner Development Programme (SCPDP)



The start up community partner development programme is an initiative by the Kerala Startup Mission with an aim to create an inclusive start up eco system in the state. The focus is to establish a strong chain of voluntary organizations/individuals who work for creating capacity building in the state.

In Kerala where there are many maker communities and start up communities who work for spreading the spirit of innovation and entrepreneurship among the youth this programme will act as a catalyst to connect the whole system from students, professionals, entrepreneurs, innovators, investors etc.

The start up community partner development programme aims at organising the start up communities from different sectors of the society within one network. This will enable a focused growth in the start up ecosystem. Kerala Start-up Mission already has several other schemes that connect the students across the state and the linkage with the community partners can increase the reach & effectiveness of the same.

This will ensure support to nurture and to mold innovation through capacity building at a grass root level and disseminate the latest technology across. Students will be able to associate with the community partner to update the technology skills by participating in the open forum discussions, technology workshops, seminars, meet the mentor sessions etc. They will also be given the opportunity to work on their innovative projects. Kerala Start-up Mission will make mentorship available instantly through the community partners. Young people can associate with the community partners, which will be a common platform for innovators and entrepreneurs. Discussion forums as well as maker/ideation sessions will be conducted regularly with the community partners. KSUM shall provide financial assistance for the community partner to conduct entrepreneurial awareness, leadership camps, technical workshops, Knowledge transfer and other activities, which go in line with the mission.

#### Key Objectives of the Scheme.

- To create an inclusive growth in the start up eco system
- To channelize and distribute the activities of Kerala Start-up Mission across the state.
- To connect the students-professionals-entrepreneurs across the state.
- To upgrade the students in technology by giving hands on trainings, workshops, seminars, meet the mentor sessions, leadership camps etc.
- To develop the youth with confidence, quality, innovation and entrepreneurship drive
- To interconnect the students across the world thereby creating a channel for knowledge transfer.
- To bring in successful entrepreneurs for mentoring the youngsters in the state.

# United Nations-EMPRETEC Training Workshop (ETW)



EMPRETEC is an integrated capacity building programme of UNCTAD in the area of SMEs and entrepreneurial skills promotion. It is dedicated to helping promising entrepreneurs put their ideas into action and fledgling businesses to grow. The programme is part of UNCTAD's mandate on enhancing productive capacity and international competitiveness for the benefit of economic development, poverty eradication and equal participation of developing countries and transition economies in the world economy. EMPRETEC's core product, the Entrepreneurship Training Workshop (ETW), is based on a unique methodology developed at Harvard University, focused on a behavioural approach to entrepreneurship. Being the nodal agency for the promotion of entrepreneurship, Kerala Startup Mission has tied up with UN-EMPRETEC and EMPRETEC India Foundation for collaborating in the Startup Leadership programme.

The workshop is effective for the startup CEO's to develop their competencies.

Implementation

- Selection of Startup companies from the different incubators across the state and those who have registered in the Kerala ecosystem
- The selected candidates shall be send to the ETW workshop conducted at different states from time to time.
- The training cost will be taken up by Kerala Startup Mission
- The travelling and accommodation shall be borne by the startups
- The nominated officers from startupmission can participate in the workshop.

# Technology Innovation Fellowship Programme



The Kerala Startup Mission has initiated a Technology Innovation Fellowship Programme for young graduates interested in working with technology start-ups and student entrepreneurs. This is a flagship programme of the government implemented under the Kerala Startup Mission's Youth Entrepreneurship Programme. The Kerala Startup Mission-invites applications every 6 months from eligible candidates, who would like to join the programme.

Selected candidates will receive a fellowship of Rs. 25,000 per month. The fellowship candidate will be a campaigner for technology startup activities in the state and will conduct events like entrepreneurship awareness camps, maker sessions, hackathons, and ideathons in colleges and other institutions in Kerala. Applicants should possess expertise in technology as well as experience in conducting programmes. The selection of the fellows will be made through an open invitation/screening and interview of the shortlisted applicants. The fellowship will be for a period of 12 months and volunteers will receive a fellowship of Rs. 25,000 per month.

Major Activities of Fellows

Activities of a TIFP Fellow is classified into:

- KSUM Activities
- a. Startup Boot Camp Activities (Conducting /Coordinating Events for students/ startups) min 3 colleges per month/fellow
- b. Conducting workshops for KSUM
- c. Conducting Awareness Sessions
- 2. Maker Activities
- a. Fablab Programmes
- b. Associating with maker community
- c. Organizing /Hosting Makerfaire
- 3. Self-Development
- a. Attending Certification/Skill Development Programmes
- b. Attending Conferences / Workshops
- c. Self-development Activities/Engagements with other organi
- 4. Ecosystem Development Activities
- Represent KSUM @ Organizing Workshops, Technical Sessions
- b. Support Startups (Technical & Commercial)
- c. Link/ Network with other partner organizations
- d. Evangelizing Tech-entrepreneurship in the state
- e. Conducting webinars

KSUM had a total of three batches of fellow till date, that is 45 passionate youth from diverse domains came together or various activities of technology evangelism. Two batches graduated and are on pursue of their career dreams or entrepreneurial ventures.

# **ACT at IIMK**



Kerala Start Up Mission (KSUM) with the support of Government of Kerala and in association with Indian Institute of Management-Kozhikode (IIM-K) organizes a 5 day residential Management Development Programme on Aspire Change and Transform (ACT) for start-up entrepreneurs from the State at IIM Kozhikode. This programme addresses some of the significant competency gaps of the startup entrepreneurs (CXO's) and enables them to meet the challenges in scaling of their business enterprises to the next level.

The objective of the MDP is to equip the participants about notches behind the transformation of a startup enterprise into a genuine scalable business model. Further, this programme also strives towards addressing some of competency gaps that startup entrepreneurs face during this transformation.

The program fee is borne paid by KSUM and it covers program, required reading material, food and accommodation, and certificate of participation.

Eligibility: The startup should be within 3 years of registration/ incorporation.

Selection Criteria: Startup entrepreneurs, who have completed their product development and are in the commercialization stage.

Selection Process: KSUM would publish the applications online from time to time. KSUM has received applicants from various TBI's (NIT TBI, CET TBI, Startup Village), Technolodge Kannur, KSIDC Incubation Centre, KITCO Technolab, KINFRA, etc. The startups were in different stages like prototype development, commercialization and scaling up.

The company should be a startup company and it should be within 3 years from the date of incorporation (company registration is not considered mandatory, if case of a good product). A few guideline parameters, in brief about the programme are:

- a) The company should have completed the product development and be ready with a Minimum Viable Product (MVP) or have a prod uct on sale.
- b) The company should be either at a commercialization or scaling up stage.
- c) Only one candidate from a startup is considered for the programme.
- d) Evaluating the profiles of applicants & Reviewing Company web sites
- f) One to one telecom with the founders/ directors. In the last IIM-K MDP, along with startups, two officials from KSUM also participated. Participants were provided with post-class readings. The sessions comprised of lectures, case discussions, group exercises and other experiential learning methods.

# Industrial Connects



In the growth stage startups often face challenges in recognizing the industrial requirements and conditions. Also, for industries to try and experiment new solutions based on the emerging technology they need startups. Industrial connects bridges this gap by capacitating startups to find solutions for industrial problems. Kerala Startup Mission enables these connect by creating various contracts and programs.

#### Amazon Web Service:

Amazon Web Services provides startups with the low cost, easy to use infrastructure needed to scale and grow any size business. Some of the world's hottest startups, including Airbnb, Slack and Robinhood have leveraged the power of AWS to quickly scale.

AWS Activate is a program designed to provide your startup with the resources you need to get started on AWS. Join some of the fastest-growing startups in the world and build your business using AWS.

#### BPCL:

Public sector oil refiner Bharat Petroleum Corporation Ltd (BPCL) signed a MoU with Kerala Startup Mission to provide aid and investments in start-ups from various technology domains. It will also provide exclusive access for start-ups to its R&D facilities, expertise and network.

BPCL will utilize selected products from start-ups on chargeable basis in its business verticals. BPCL will also conduct workshops to promote start-up culture in the state.

#### HPCL:

The Start-up scheme of Hindustan Petroleum Corporation Limited (HPCL), is a program to enable innovators and entrepreneurs pursue a promising idea, establish and validate proof of concept (POC) and support commercialization. HPCL wishes to help innovators and entrepreneurs or projects having established proof of concept (POC) to eventual commercialization / implementation.

#### G TECH:

GTech Innovation Focus Group (an initiative by Group of Technology Companies- G Tech to promote innovation and entrepreneurship in Kerala) has initiated the following programs to foster innovation in the state.

Adopt A Young Idea (AAYI): The program is to identify and adopt potential ideas and curate it to maturity. The attempt is to create socially relevant projects that can be commercialized and has the potential to revolutionize the industry and society.

# Networking opportunities



Kerala Startup Mission finances startups to participate in national and international events. In these conferences startups participate as an attendee or as exhibitorto showcase their product or as contestant for investor pitching etc.

#### Lets Ignite

Hosted by Lets Venture, Lets Ignite is India's largest angel conference. Launched in 2015, LetsIgnite is the flagship event for the angel investor fraternity. The event focuses on the key trends both retroactive as well as futuristic that have a significant impact on the investment value chain. The conference and workshops aim to provide investors with a space to share insights, network and connect with marquee investors.

http://letsignite.in/

#### **Techsparks**

For eight years, TechSparks has been the best platform to showcase, meet and connect the leaders of India's startup ecosystem with those set to create disruption. It is where the pioneers and the legends gather together to work to make the dream of a digitally empowered India a reality. Techsparks is a confluence of dreamers and risk-taker who relentlessly strive to challenge the status quo and MAKE IT MATTER. Techsparks constitutes Stories to tell, Panel discussions, Debates, Fireside Chats, Pitches and Masterclass all from the brightest and motivated minds grouped together by YourStory. https://techsparks.yourstory.com/2017/

#### Nasscom product Conclave

India is being propelled towards a 4th Industrial Revolution arising out of the assimilation of digitisation and technology. Every business in India, irrespective of its size is heavily investing in technology like never before, spanning across all sectors from Retail/Ecommerce to Banking, from Manufacturing to Healthcare, Telco and every other industry and vertical.

At NPC, one could learn what are the latest technologies, products and companies that will fuel this revolution and what kinds of businesses will lead their adoption. NPC is considered as the India's largest product showcase to the world.

http://productconclave.in

#### Technology senate

Established in 2003, Technology Senate has been successful in bringing together India's top CIOs and decision makers engaged in IT deployment onto a common platform with technology providers, thought leaders, and subject matter experts. Express Computer an initiative of Indian express group hosts technology senate, an Indian IT leadership conclave for the past 14 years. A two-day hosted conference focused on the digital transformation of the enterprise. The conference will be an enriching blend of keynote sessions, panel discussions, thought leadership insights and partner presentations. The focus will be on real-world IT deployments and the latest business insights that attendees can put to practical use.

http://technologysenate.expresscomputeronline.com/

#### Unconvention

Unconvention is Villgro's platform to seek out and nurture social enterprises, and grow the social enterprise movement all over India. Since 2009, the Unconvention platform has supported thousands of entrepreneurs through 38 events, which have seen 120 pitches, 3200 attendees, 75 partners, 100+ speakers and more.

http://villgro.org/unconvention/

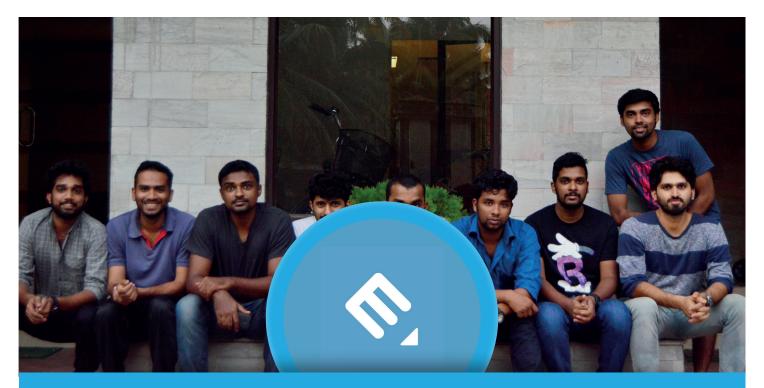
#### **TIEcon**

The conference is an opportunity for entrepreneurs to widen their horizons through information and interaction. The two-day conference will see more than 100 speakers, over 40 concurrent sessions in 5 parallel tracks will have the participation of over 2000 delegates.

Start-ups and budding companies developing viable business model would really benefit from TiEcon. Get inspired and guided on how to take your business to newer heights. For those students who want themselves to emerge as job providers rather than job seekers, this could be the very first step. Be an entrepreneur- be your own master.

http://kerala.tie.org/





### Entri

Entri (www.entri.me) is an Edu-Tech startup from Kochi, India which makes learning easier for students and teaching effective for education institutes. They are the first startup from India to get selected into Learnlaunch Accelerator, the world's leading Edtech startup accelerator located at Boston, United States. Students get access to a web/mobile application and the intelligent system helps the student grow from a BEGINNER to SCHOLAR in any topic using their unique star based gamified system. It is intelligent enough to maintain a detailed, constantly updated profile of every user and knows what kind of a regimen each student should go through for optimum progress in the least amount of time. Their teaching methodology focuses on teaching concepts using study cards, practising using tests and clearing doubts if there's any gap. Institutes and teachers get actionable insights on the performance of students and the effectiveness of their classes, which helps in improving the overall teaching and learning experience inside their institute. They can conduct customized tests and examine the complete student analytics of these tests, both cumulatively and individually. This saves a lot of cost and time and can help improve efficiency. Entri currently offers courses for IIT-JEE, NEET the national level admission test for Engineering & Medical courses in India written by almost 2 million aspirants annually and also the PSC exams even though it's designed to be a platform that can be adapted to any category of exams. So far, Entri has tied up with 64 institutes and is used by 420 teachers, 85,000+ students. Students have attempted over eight million questions and are targeting 10,000 institutes in the next three years. Entri have also been selected as one of the top 10 emerging EdTech Startups in India by education experts of Pearson Learning and S Chand. They also were the finalists in YCombinator seed accelerator programme for Winter batch 2016. They were recently featured on Yahoo Finance as part of the LearnLaunch Cohort announcement.

Founding year: 2015

Founders -

Mohammed Hisamuddin (CEO) Rahul Ramesh (CTO)

Team size: 15



# **Engagespot**

Engagespot started off in 2016 as the first product venture of Anand and Anandu. Engagespot is a web push automation platform to send personalised and targeted push notifications to users based on their behaviour on a website. Engagespot will segment customers based on their user their behaviour on a website, such as page visits, cart abandonment, purchase history etc and send highly personalised push notifications directly to their desktop or mobile devices thereby helping digital marketers to reach the right customers.

They started off their entrepreneurial journey in 2015 into service industry (Web and mobile application development projects). Their clients used to get a lot of visitors on their websites but hardly any of them converted into sales on the first visit. Thats when engagespot was ideated wherein the team would you web push notifications to push important messages to the users after they move ahead from their clients website. This would convert the visitors into subscribers, so that they could later on reach out to these subscribers and bring them back on their platform.

This concept worked well and the clients were getting better click rates and conversion rates compared to most other digital marketing strategies. Engagespot claims that web push notification is one of the best digital marketing channels for re-engaging customers and improve the conversion rates of a website. The average click through rate for push notifications is around 20% whereas it is less than 5% for emails. Engagespot also provides one-click install plugins for popular content management systems like WordPress, WooCommerce and Magento.

Awesome team behind Engagespot: Anandu & Anand Current Team Size: 9 Founding year: 2016



## **VehicleST**

VehicleST Smart mobility Solutions are a bundle of complete Software and Hardware product for secure cashless mobility segment through a multi model transportation like connecting Auto, Taxi, Bus, Boats for in single point using a Bidding model and c he trip.

The same device can be used as infotainment sys tem as well as GPS tracker along with vehicle health monitoring like engine conditions, fuel, oil, coolant, battery condition remotely. Software is both white label solution for corporate for travel and fleet management internally and for public known as VehicleST app available in Andorid playstore and app store in iOS.

Alvin conceptualized this solution during his frequent travels to Europe and different parts of the country where he faced the issue of getting best fares for travel needs because of language, currency, lack of other commuting / connected options and concern of security.

Currently Vehicle St has more than 700 cashless smart autos plying in Trivandrum, Cochin and Calicut and earning extra income through geo tagged advertisement and online booking of auto rides using bidding and completely cashless facility like payment through debit/credit cards/NFC cards/Wallet payment. They have also partnered with SBI for integrating BUDDY app and promotion of the same through auto drivers to add more income to them. Auto drivers earn a minimum of 500 to 3000 Rs extra/ month using Vehicle St device depending on the hours of daily service apart from online trip. Team is planning to deploy 15000 Autos in next six month along with auto unions in Kochi and also for taxi and smart Bus with 24 wallets and debit/ credit cards to ensure complete cashless payment. At present the team is working on a Qatar project with a smart road developing company for intelligent public transportation system with smart card for all needs. Other major projects include OMAN and EUROPE R&D partnership for hardware development for vehicle condition monitoring for construction vehicles and public transportation. Vehicle St is looking at a growth rate in case of mobility solutions. Team is aiming for a sales turnover of 700 to 800 CR in next two - three years with an employment generation for over 700.

Awesome team behind Vehicle St:

Alvin George, Founder- CEO,

Naveen Dev, COO, Jayakumar PP, CFO

**Current Team Size: 70+** 



# **Fourth Ambit**

www.fourthambit.com

Fourth Ambit is an online community building platform for educational institutions.

Rahul and team are firm believers that it is the focus on education that will help us as a nation. In that respect, in an educational institution, the focus is on creating an ecosystem where the students derives the best value from its community. The college alumni, faculty, students and even parents of students all form a critical part of this community. Fourth Ambit provides an online ecosystem for these colleges to create their private community with these stakeholders so that students and college itself derives maximum value form the synergy of these stakeholders. A culture of continuous and effective collaboration is what these communities strive to achieve.

#### What is the benefit from this?

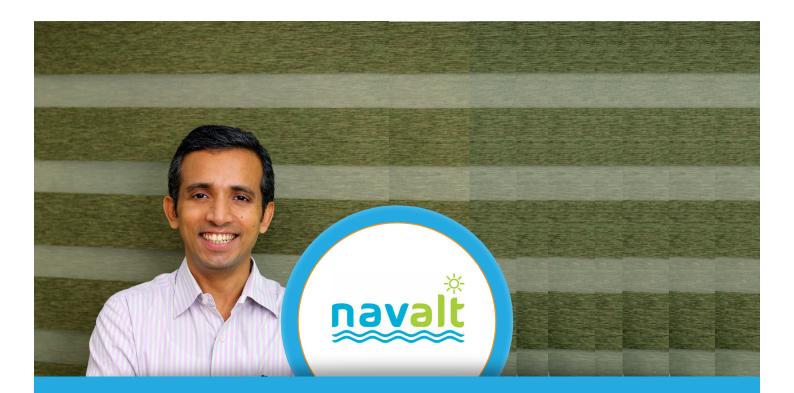
•Internship and placement support to students from alumni and industry partners on the platform, Mentoring, Support for entrepreneurship activities, Lateral placement and other community building initiatives between alumni, Support for causes, Fund raising

The four co-founders are passionate about the field of education. When they started examining the business opportunities, they realised that alumni management was a key problem not just in Kerala but across India. There are less than a handful of colleges that does alumni management effectively. This was their starting point. But after acquiring around 200+ clients, team realised that the true value of such a system lies in expanding this community to include students and faculty. From there on team's focus has been to build online communities which include all stakeholders. Platform currently has over 1200 clients and they aiming for 10x growth in next 2 years.

#### Awesome team behind Fourth Ambit:

Rahul Das CEO Jikku Jolly CTO Ruby Peethambaran CSO Shyam Menon CMO

Current Team Size: 30+



#### **Navalt**

Conventional boats powered by diesel engines causes lot of air and water pollution. The noise and vibration is very tiring for the passengers. In addition, the smell of diesel is uncomfortable for passengers. Navalt offers solar ferry boat that do not have any of these problems of conventional boat. Naval boats are completely eco-friendly with no fuel on board.

Replacing conventional boats with solar powered boats is certainly a winner for the environment. Noise and vibrations are reduced to an absolute minimum and there is no smell of diesel or petrol fumes and so, commuters can experience a comfortable ride. The savings in fuel translates to a total of about 90 tons of CO2 emissions for a ferry that would have otherwise been released into the atmosphere.

There are many states like Kerala, Goa, Kolkata which depends inland water ways for commuter transportation. All these boating operations uses conventional boats with diesel engines that are fuel guzzlers causing air and noise pollution and disturbance to the local habitat endangering the ecological balance of the surrounding areas. Government and private operators engaged in passenger water transportation are their major clients.

Navalt is also in discussion with state governments like Tamil Nadu, West Bengal, Maharashtra for introducing similar solar ferries. They are also looking to introduce this solar ferry model in other Asian countries where sun is very abundant. Their targets include Maldives, Sri Lanka and other South East Nations.

In the next two years Navalt should be building 20 solar ferry boats. They would double the size of team to 50 people.

Awesome team behind Navalt:

Sandith Thandassery, Frederic Meniere, Philippe Palu de la Barriere

**Director(Engineering) Director (Technical)** 

**Current Team Size: 25** Founding year: 2013



### Sastra Robotics

Founding trio of Sastra Robotics, Akhil A, Aronin P and Achu Wilson started their journey in 2012 from Startup Village. Driven by the founders passion about machinery, electronics and artificial intelligence, Sastra is one of the hottest startups in India. With its vision to develop next generation robotic companion for human beings, Sastra Robotics is currently engaged in the development of robotic manipulators for device test automation deployed by Robert Bosch, HCL and Audience.

The USP of Sastra is the unique capability of its intelligent robotic arm. "There are no companies selling a single robotic arm solution capable of handling every human machine interface testing, including hand gestures. We have identified over 20 companies around the globe which build touch screen interface testing solutions. But ours is 10 times cheaper, at the same time 60 per cent faster. Still we are not building cheaper robotic arm.

But our geographical area and good business partnerships and optimised product design helped us achieve this. So international companies can't simply compete with our product both in terms of technology and price," says Aronin.

Aronin says that their team's goal is to build an ideal robotic companion for human beings in the future. The way human beings interact with Sastra robotic companion will be one of the team's USPs.

(Source:www.newindianexpress.com/cities/kochi/2017/may/31/robotics-to-the-rescue-1611392--2.html)

#### Awesome team behind Sastra:

Akhil A COO Aronin P, CEO Achu Wilson CTO

Current Team Size: 17 Founding year. 2015



### Sieve

Sanjay was approached by a friend of friends company when their freelance developer for IOT product left half way and needed someone to complete it asap as the delivery was near. He took up the project and then realised the designer was also a freelancer and he was hired separately. Sanjay understood it was hard for the company to manage different freelancers and get a project done. There was no team, it was just randomly selected people. This is when Sanjay realised the pitfalls in freelancing, and the need for a process, a product manager and a team.

"I believe in the future where you can work from anywhere in the world at your own comfort with a distributed team, this is why we are building Sieve. I think we're transcending the point of "you get to work from your pajamas!" and people are starting to understand that remote work represents an opportunity to empower and connect global communities in a meaningful fashion. More than just a freelancing platform, We are looking at fundamentally changing the way people work online and making freelancing a better career choice. "-Sanjay Nediyara

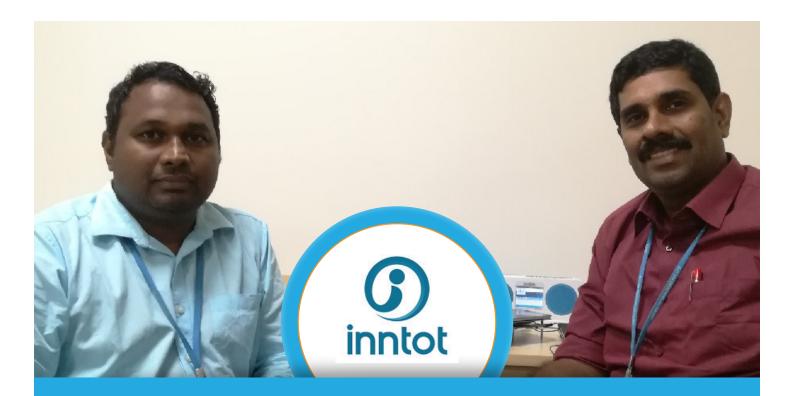
Team's vision for 2025 is to have over 10,000 people working as full time freelancers enjoying their life, making connections and travelling across the world with Sieve.

Team is looking at getting the first 1000 freelancers working with Sieve and release the first set of AI tools in a production environment which the team is building internally.

Awesome team behind Sieve:

Sanjay Nediyara Co-Founder Arun Purushothaman Co-Founder

**Current Team Size: 8** 



#### Inntot

Inntot is a technology driven company formed by inspiring domain experts who are passionate about providing high quality solutions to media and entertainment segment. Inntot provides configurable software components that helps customers to deploy their products in Consumer Electronics, Automotive, IoT/BLE, Mobile and other related media and entertainment segments.

Inntot vision is to work on IP Solutions and IP enabled engineering services that will have far reaching benefits in the day-to-day life of common man. First IP solution picked up for this vision of Inntot was Digital Radio Receiver solution for Indian and other markets enabled through Korean and Japanese SoC/ODM/OEM customers.

Currently the team is working hard towards developing IP components and providing engineering services to Cooperative Intelligent Transport Systems (C-ITS).

Inntot aims at having 3 or more IP solutions and IP solution customisation projects for multiple customers (say more than 6 customers) in next 1-2 years.

Awesome team behind Inntot:

Rajith Raman Pillai Co-Founder Prasanth Padmalayam Thankappan, Co-Founder

Current Team Size: 9 Founding year: 2014



## **Build Next**

Build Next offers end-to-end solution to all construction needs. It uses internet technology to revolutionise building construction by creating a web platform that provides best offers in building materials at reasonable rates with range of products from across the country.

Buildnext is founded by V Gopikrishnan and Finaz Naha, batchmates from IIM Bangalore. Gopikrishnan realised that the unstructured nature of the building materials market is a challenge, but also a huge opportunity, making it one of the highest potential sectors for startups in India. So they decided to build a more efficient supply chain for building materials than the current distribution, as it is too inefficient for this age. End product will be an asset-light procurement solution for construction materials, while making scalable processes in the back-end to service the requests.

Buildnext team aims at creating an ecosystem for construction industry, architects for design, product materials and the service providers to execute the design in one online platform.

Buildnext team consists of experienced professionals from technology , real estate, construction, IOT and logistics sectors.

Awesome team behind Buildnextt:

V Gopikrishnan Co-Founder Finaz Naha Co-founder

Current Team Size: 30 Founding year: 2016



# **Unity Living**

**Community Living at its best** 

Unity Living is founded by Jithin Sreedhar after his experience in software industry and accounting. It started of initially as a service company for almost and year and then shifted focus to an apartment management platform in 2013. The platform was then used by over 100 apartments in Kerala.

Managing a society or an apartment is a voluntary as well as tedious job. The associations take over the work, but managing so many people's accounts, homes and maintenance was very chaotic. Thats where Unity Living technology became a solution automating all the processes for them.

One of the major challenges being the marketing, Unity Living really took off when they solved this challenge. Partnering with the major banks like Kotak Mahindra and Federal Bank.

Currently the Unity Living has presence in over 10 cities, (all tier 1 and 2 cities).

Jithin and team looks forward to ensuring their presence in over 30 cities across 5 countries and at least 5 banks on board in next two years.

Awesome team behind Unity Living:

Jithin Sreedhar CEO

Jobi John, Co-Founder

Jija John Co-founder (Operations)

Current Team Size: 23 Founding year: 2016



# **Aisle**

Aisle is the wise middle-path between traditional matrimony websites and casual dating applications. It is a handpicked community of urban, like-minded Indians from around the world looking to have meaningful and long lasting relationships. As internet penetration in India grows at a rapid pace, other sites & apps attract non-urban crowd in large numbers. The trendy transacting users of Indian internet aspire for a more private place to find their special someone. Especially women. Else, it is like searching for a needle in a hot, humid and stuffy haystack.

This traditional process is no more the way young India wants to go forward with. Indian youth wants to spend considerable time with their to-be-partner understanding each other and finding that connection. They aren't for casual dates from Tinder or Thrill but aren't ready for marriage proposals from shaadi.com too.

Aisle experience is a combination of best of online casual dating (Tinder) and matrimonial sites (bharat-matrimony.com).

Aisle aims at the market of Indians across the world. The team is working hard to become the go-to app for urban singles to look for meaningful relationships.

Awesome team behind Aisle:

Able Joseph, CEO

Bivin Varkey Benny, Director of User Relations

Current Team Size: 8 Founding year: 2014



# Hyreo

Hyreo is a solution to recruitment challenges.

Hyreo is a platform consisting of recruitment specialists, technologists and potential candidates all in one platform, enabling the companies to sources great talent fit for their needs in quick time.

The idea for Hyreo came from team's real life experience in hiring talent, back in their corporate days. There were many recruiters – both internal and external and managing them was very cumbersome. Enormous effort and a large sum of money was required to manage the workflow. Arun and team realised that if there was a mechanism to get matching CV/resumes for a particular job requirement, without having to manage a large recruiter workforce it could potentially save companies, a lot of time and effort. This led to Hyreo.

Founded in November 2013, Hyreo focuses on aggregating human capital based services on a single platform. Hyreo aims to be the world's first automated recruitment marketplace which combines automation technology and expertise of a curated talent expert team. Clients can put requests to hire on the platform, receive matching and assessed CVs and also manage the recruitment back-office in Hyreo.

Hyreo model ensures 50% reduction of time and effort in technical assessments of candidates.

The team is currently looking to tap South Asian market, especially Singapore. They are also aiming at PAN India presence and scaling to service non-IT clients in next 1-2 years.

Awesome team behind Hyreo:

Arun Satyan, Co-Founder Mahesh Raju, Co-Founder

**Current Team Size: 10** 



#### Instio

www.instio.co

Instio helps to create meaningful relationship with the customers.

Instio find out needs wants and wishes of customers and help businesses to improve their business process and offer a better customer experience.

In September 2014, Girish and family had been to a reputed 5 star hotel in Kochi for dinner. They faced a very disappointing experience during their visit. Being a frequent visitor, he knew the staff at the hotel and so he inquired about the poor service. Girish handed over his comments in the feedback form with his true experience - which was reflecting all their frustrations. He was waiting for a followup call anytime or at least a followup email from the hotel manager. To his surprise that never happened, till date. He was shocked to find that customer's voice was ignored by a reputed 5 star chain! He started to probe deep into the subject of collecting and managing feedbacks. This opened his eyes to the major problems in the feedback management of hospitality sector. He started to think how to solve this issue, started to meet industry professionals, and started to research more about this problem. As a result of the learnings and experiences, he decided to start a Tablet based feedback collection tool which will collect feedback on real time, before the customer leaves the premises. Thus Instio was born. Currently, they have traveled far from the start.

Instio has now started with hospitality market and that puts them in a unique position in India as they deliver end-to-end customer experience solution for hospitality market. They build industry specific CX solutions so as to give more value for the Voice-Of-Customer.

Currently they have focus only in Kerala market, but by the end of this year they are planning to tap national and international markets in hospitality and retail.

Their short term goal is to reach 1000 license sales within next 2 years.

#### Awesome team behind Instio:

Girish S Prabhu, CEO Suma G Prabhu, COO Piyush Jain CFO

Habel Philip (Technical team)
Nitheesh Chandran (Technical Team)

**Current Team Size: 8** 

#### **CRP Automations**

#### Web Appz Live

#### V Cup Thrissur

#### dashlyticsio

alenmjis@gmail.com Alen MJ

#### **Verified Portfolio**

#### **Endasys ERP**

#### **Endasys**

#### **Forester Footwear**

#### ShoppingLight

shoppinglight.in

#### ShopsInLight

shopsinlight.com hr.anoopks@gmail.com Vivek Viswam

#### **Event Muggy**

eventmuggy.com Thiruvananthapuram

#### **Ergonomics Communication**

and Information Technologies

ergonomicscit.com Girish Kumar girish.kumar@ergonomicscit.com Thiruvananthapuram

Xops Labs xopslabs.com Rosh J Antony Thiruvananthapuram

#### 3rd EYe Security Systems

Aslam Basheer

#### Dewdrops

dewdropsgreetings.com Mahesh Viswam

#### AlphaBot Systems

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#### **Smarter Census**

#### Onbyz

#### **RNHT Solutions**

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#### **Bal World Technologies**

#### **Magnicode Solutions**

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Thiruvananthapuram

# NeoVibe Innovative Technologies

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# ThoughtRipples Technologies

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#### Igloo innovations

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Www.labofweb.com Rajeel kp Rajeellp@gmail.com Kozhikode

#### Maacode yaf society

Yafarkhan yafarkhan123@gmail.cor Kollam

#### **PlusCharts**

pluscharts.com Kozhikode

#### VisionAugma

## **Doctors Jobs**

#### **Enzapps IT**

Shareef Thalekkara Maruthuru

Appilder appilder.com Mohammed Anees

**Stickray** nadeemparappurath@gmail.com

#### Sentiment analysis

#### OpenArt

rameesht@gmail.com

#### Vayodha

vayodha.com

#### Buy2Salein

buy2sale.in

#### **PearIXP**

#### AflexArchive

#### Vayodha vayodha.com

#### Kotz Tabz

Ketty Cherian, Vineetha Ketty kettycherian@hotmail.com

#### Holiday Club

holidayclub.net.in Anukrishna P Menon anukrishnapmenon8@gmail.com

#### Buy2Salein

#### **Peak Caller**

peakcaller.com John Eipe Ernakulam

#### Pebblework

Sharath Tp sharath@pebblework.com Ernakulam

#### Duaa Perfume

#### **Pifield Technologies**

pifield.com

#### UserSense

prashanth@thinking-code.com Ernakulam

## SOFTWARE/IT

#### **BOOK N MEET**

www.booknmeet.com Prasanthi Nathan cto@booknmeet.com Ernakulam

#### Catacomb

catacombit.com Ernakulam

#### Sinergia Labs

www.simelabs.com derrick sebastian derrickseban@gmail.com Ernakulam

#### FameSquare

famesquare.com Babu Raj K baburajkanhangad@gmail.com Ernakulam

#### Lego Capital

www.legocapital.in Vishnu Govind legocapital@gmail.com Alappuzha

#### Instio

instio.co Suma Prabhu Girish Prabhu girish.prabhu@instio.co Ernakulam

#### Rectfy

www.rectfy.com Muhammed Ashique Kuthini ashiqwayanad007@gmail.com

#### Cocoalabs

cocoa-labs.co.uk

#### Clizotech

www.clizotech.com Sunil mathai clizosunil@gmail.com Frnakulam

#### **Puissant Info Solutions**

puissantinfo.com Hema Mohan Paul Mathew mpaul97@gmail.com Ernakulam

#### Ease Hrm

easehrm.com Frnakulam

#### Rawdata Technologies

rawdatatech.com Chacko Cherian chackocherian@gmail.com Ernakulam

#### Unidad

unidadindia.com Ernakulam

#### LiteHR

litehr.com Ernakulam

#### **Apiria**

apiria.com Darshan Rathi,darshan@apiria.com Ernakulam

#### Unity Living

unityliving.com Jithin Sreedhar jithin@unityliving.com Ernakulam

#### **Flatparty**

flatparty.com Ernakulam

#### Ernakulam Post Media

Ernakulampost.com Raghul Sudheesh

#### Ziel Hospitality

zielhospitality.com Neelkanth Pararath neelkanthp@gmail.com Ernakulam

#### AndroidsiteIn

androidsite.ir Ernakulan

## SOFTWARE/IT

#### Articbot

articbot.com Rijin Ramesh Kannu

#### Ctrl IoT Systems

myctrl.co Vishnu Nagaraj Iamvishnunraj@gmail.com Ernakulam

> Daddysgame daddysgame.com JOSEMON MALIAKAL osemonmaliakal@gmail.com

#### **Nisse Notes**

Tom T Alias tomtalias@gmail.com

Menerva Software www.menervasoftware.com Sony Gabriel sonygabriel@gmail.com Frnakulam

#### Koova

koova.in Malappuram

#### **TopRatedAppStore**

topratedappsstore.com Kozhikode

#### **Implemer**

implemer.com Zabeeb Anwar zabeeb.creativo@gmail.com Kannur

#### Officekit

officekithr.com Haris ptharis@gmail.com

#### Pollka

pollka.co Reuben Philip Abraham reuben@pollka.co Ernakulam

#### **Alokin Software**

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#### **Nexart TechnoSolutions**

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#### ThoughtsArena Solutions (P)

www.thoughtsarena.com Arun Satyan arunsatyan@gmail.com Thiruyananthanuram

#### **Armtech Solutions**

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#### Realeffecx Technolabs

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#### **Nxtlive Technologies**

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#### **Paramount Diagnostics**

paramountdiagnostic.com Shabeer Ali Thattarumattil shabeeraly@gmail.com Thiruvananthapuram

#### Neoito

neoito.com Faiz Mohamed Haneef Thiruvananthapuram

#### PropMix propmix.io

Matt Kumar Antony Satyadas ahesh Nair Thiruyananthapuram

#### **MagDreams**

magdreams.com Thiruvananthapuram

# SOFTWARE/IT Shoppintown Venu Asok Nair Ernakulam Kitchen Treasure Pixelart 3D pixelart3d.com John Dennis Thottam Pollka Reuben Philip Abraham reuben@pollka.co Ringr goringr.com Ashok Mani Benito Footwear benitopufootwear.com Malappuram

# HARDWARE STARTUPS

#### PerfectFit Systems

www.centerforinnovation.com Eobin Alex george eobing@gmail.com Ernakulam

### IRIS ALTERNATIVE

lowt.in Babu Mathew babumathew297@gmail.com Kozhikode

#### Hygienia Sanitations

www.hygienia.co.in Stanly George stanly.george@altersoft.co.in Ernakulam

#### Cedesyn technologies

www.cedesyn.com Jithin george Jsamgeorge@gmail.com Kottayam

#### GlobeCo Technologies

becoapp.in/ Nidhin Chandramohan/COC nidhin.sayone@gmail.com Ernakulam

#### Green aarde services

www.greenbikez.com/ Arun Stanley connect2stanley@gmail.com

#### Srishti Robotics

#### Technologies

www.srishtirobotics.com Sunil Paul ,shine@srishtirobotics.com Ernakulam

#### Sayabot systems ktd

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#### Resnova Technologies

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### SECTORQUBE

#### **TECHNOLABS**

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#### Vatsaa Energy

www.vatsaaenergy.com Ajay Thomas ajay.vatsaaenergy@gmail.con Wayanad

#### GateRoller

gateroller.in Sudeepth Patinjarayil Ernakulam

#### **KASPEROB ROBOTICS**

www.kasperob.com GITHU N S githuns@gmail.com Kottavam

#### My VR Goggles

myvrgoggles.com Dheeraj Mohan Kozhikode

#### **ProdNXT Technologies**

www.prodnxt.com Ayappan Balakrishnan bayyappan@gmail.com Thiruvananthapuram

#### Neyya

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#### **SMART SOLUTIONS**

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#### SyncCam

synccam.con

#### **ALCODEX**

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## HARDWARE STARTUPS

#### SeeMyMachines

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#### Kloudpad

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#### **IOStash**

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#### **Iret Guitar Enhancements**

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## Travanleo Info Solutions (India)

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#### Sastra Robotics India

www.sastrarobotics.com

ARONIN P aronin.ieee@gmail.com

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#### Prominent

www.prominentinfo.com ANOOP R prominent2011@gmail.com

#### Synapse Technologies

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#### **PyboticLabs**

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#### Rideblock

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#### Vi Innovations

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#### **Asimov Robotics**

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#### **Velox Innovations**

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#### Nimo Technologies

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### **BZ** City

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#### **Parisar**

#### GreenKurry

greenkurry.com Babu Mohanan babumohanan@gmail.com,

#### Deals in Ernakulam

dealsinErnakulam.com

#### **MACHINSER Technologies**

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#### Himas Tech

#### Kathrika

#### Made For Her

Divya ,dev.ddivya@gmail.com

### Naturelopa

#### Fliptango

fliptango.com

#### **BuildNext Construction** Solutions

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#### V-Star

#### CodeLarva

www.codelarva.com/ Sandeep Vattapparambil sandeep@codelarva.com

Laksyah laksyah.com Ernakulam

#### Elk Store

rakeshcet029@gmail.com

#### TheCrochet

thecrochetcompany.com Jitto Jose jitto@thecrochetcompany.com Ernakulam

#### **Boon Kids**

#### **Peotive**

Bibin Jose

#### Wisholize

#### **Stories**

storieshomes.com Kozhikode

### Cartin24

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#### StoreCave

Jacob Champanniparambil

#### Streetbell Technologies

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#### **Swad Food Products**

#### Chooseberry

chooseberry.com Abdul rahim

#### Alivekart

#### Hashboosh

#### Pathayam

#### Sales Catalog App

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#### Axen Software

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#### Ofaby

Radhakrishnan Ram Manohar

BunnyCart bunnycart.com Kozhikode

#### **Ente Deal**

entedeal.com Ernakulam

#### Seamstress

seamstress.co.in Rasmi Poduval

#### **PriceJets**

pricejets.com Ernakulam

#### **Antikart**

mthayeb@gmail.com

#### Galanation

galanation.com

## Ezidrop

ezidrop.com Thrissur

### Trendslacom trendsla.com Nikhil Charanghat

## Fresh Drops

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Daddy's Pocket Group www.daddyspocket.com George Panamkuzha xpanamkuzha@gmail.com Ernakulam

My Gift Box mygiftbox.co Palakkad

Tagnx tagnx.com Alphonse Peter alphonsepeter@live.com Ernakulam

### Classy classy.co.in Malappuram

Karshika karshika.com Ernakulam

Loomsberry.com www.loomsberry.com DILEEP SN dileepsn@gmail.com Ernakulam

#### ElectroWorld

Alappuzha

### Eazyseller eazyseller.com Thiruvananthapuram

### Campper campper.com prabilmj@gmail.com Ernakulam

#### BlackThreads

blackthreads.in Hari Shankar harishankar.ms@gmail.com Thiruvananthapuram

curiocity curiocity.in Collins Samuel Ernakulam

## Garlikes Palakkad

## HEALTH

#### Triple Hat InfoSec

#### Consulting

www.triplehats.com Manoj K Chandran ,info@thslab.com Ernakulam

#### BookMyOPTicket

bookmyopticket.com Jayakrishnan Thesika Thiruvananthapuram

#### Sightica Solutions

www.sightica.com Sunil J Mathew sunil@visuallychallenged.com Ernakulam

#### Medpicky

medpicky.com Deepak RC Thiruvananthapuram

#### Medical Portal

medicalportal.asia Mahesh Sathyan mahesh@medicalportal.asia Ernakulam

## Xpetize Technology Solutions

www.xpetize.com jesh Shashi rajeshshashi@gmail.com Thiruvananthapuram

#### HelloDOC

hellodocworld.com Varun Nishanth Ernakulam

#### CarePact

carepact.co Joseph E P josephep1@gmail.com Thiruvananthapuram

#### **Blood Search**

bloodsearch.in Jijo John jijo.john@gmail.com Ernakulam

#### Zum Heilen Healthcare

www.zumheilen.con DR . PRASHANTH VARKE' drpvarkey@zumheilen.con Thiruvananthapuran

#### **Beat Diabetes App**

beatdiabetesapp.in Ernakulam

#### Virtual Doctor Kerala

virtualdoctorkerala.com

#### **Purchasemed**

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#### DrReach

drreach.i Ernakular

#### Ayurkruti

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#### Ellipsor Health

www.ellipsor.com Sidharth Suresh sidharthiist@gmail.com Thiruvananthapuram

#### **Cassell IT Solutions**

cassellsitsolutions.com Renny Jose Thoppil rennyjosetm@yahoo.com Ernakulam

#### BestDoc

bestdocapp.com Soudabi N soudabi@gmail.com Frnakulam

#### Medi BizTV

medibiztv.com Ernakulam

#### Pappyjoe

pappyjoe.in George Kuriakose pappyjoecalicut@gmail.com Kozhikode

### **HEALTH**

#### Two Plus Five

Seemalatha N.V

#### Satkriya Healthcare Innova

Www.ourfamilyclinic.org Shamnad Najeeb Ourfamilyclini @hotmail.com

## Smart Dental Teleradiology dentalteleradiology.com

#### **Technorip Innovations**

arunpm@icloud.com Ernakulam

#### **Evelabs**

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#### Medeguru

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#### **Timetocart**

#### **Caredata Solutions**

#### **BookMyConsult**

### Drinn

#### **Ezymeds**

Bourgeon Technologies www.bourgeontech.com priyesh@burgeontech.com

#### Ziller

ammaskanan@gmail.com

#### pick2heal

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#### chizrinz infoway

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#### **MedAlert Solutions**

medalertsolutions.com

### Meds Plan

#### **Thopps Technologies**

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#### VraiQueue

#### Medipoint

medicalpgadmissions.com

## z woman maternity products www.ezwomanindia.com Mr. Franco Simon

#### MediNuova

#### **ASCENT CITY TECHNOLOGIES**

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#### **BYOWN**

Sundar Raj sundarraj@byown.co

#### **Mobilexion Technologies**

www.mobilexion.com **George Varkey** gv@mobilexion.com

#### Meditrina

### **Medical Apps for You** Idukki

# Purple Health

Fit tracer

## Dentzoft

#### Traffitizer Technologies

Mohamed Jasim M jasima2z@gmail.com

#### **Neonicz Software Solutions**

ARUN R S CHANDRAN

#### Cancare Home

#### Allesh Biosciences Labs

Winfy Software www.winfysoftware.com Mohammad Rafeek pkmrafeek@gmail.com

#### **Elveera Technologies**

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#### **Good Methods Global**

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## **ED TECH**

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Skillpad skillpadglobal.com Thiruvananthapuram

#### Repoto

ElearnLive

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#### SquareTrack

#### **Smart School**

#### Home Study For U

homestudyforu.com

#### **Schneide Solutions**

Kadar Shah

### **Parent Alert**

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#### entri

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guidebirds.com Ernakulam

#### **OpSecX**

opsecx.com Ajin Abraham ajin@vlokal.com

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#### Radice-Edu

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### **Appmaker**

saleeh@appmaker.xyz

#### Mi Campus

micampus.in Bobby Mathews

#### **Ednex**

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### **ED TECH**

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#### Earn Marks

earnmarks.com Robin Karatra rkaratra@gmail.com, Frnakulam

#### EduLanche

edulanche.com Nishanth B Singh docnishanthb@gmail.com Thrissur

#### **CodeWalker Solutions**

codewalkersolutions.com Frnakulam

### Skyclass skyclass.in Thrissur

#### Codegena

codegena.com Shan Eapen Koshy shaneapen@gmail.com Pathanamthitta

#### EduCrib

educrib.com Ajith Mathew ag@educrib.com

#### baabte System

Technologies

baabte.com Muhammad Haris NP haris@baabte.com Kozhikode

#### **4Tune Factory**

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procampuz.com Deepesh Divakaran deepesh.divakaran610@gmail.com Kottayam

#### SilverBullet

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#### The Doers' Club

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#### **EdDiary**

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#### Shift2Cloud

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### CHIPS N BYTES IT

MANAGEMENT SERVICES chipsnbytes.in

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#### Mindthink Learning

#### Solutions

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#### MobSchools

mobschools.com Ernakulam

#### Logix Space Technologies

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#### **Education Always**

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### **ED TECH**

#### **Softfruit Solutions**

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### **Build From Zero**

buildfromzero.com Tomvictor Vithayathil

MyStudyPark mystudypark.com Kottayam

#### **Wisom Meadow**

#### **Educras**

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## ColonialVision

#### PetroFieldTraining petrofieldtraining.com

iclassroomiclassroom.in **Thrissur** 

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#### **Ariv Online**

Ernakulam

#### Examsummary

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# **FIN TECH**





#### **Tapiko**

tapiko.in

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#### Chillar

### Payd

payd.co.in Kannan Nambiar

#### Msnowball

Biju Lal Ernakulam

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#### **Flipay**

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#### Tapiko

tapiko.in Anik Raj

#### Qubelnvoice

#### Spend Smart App

spendsmartapp.in

#### **Easy Top**

easytop.in Mandu

mandushalu@gmail.com

#### **Analyst Online**

#### StockRater

#### **SYNE**

synepay.com

#### **Fundomoto**

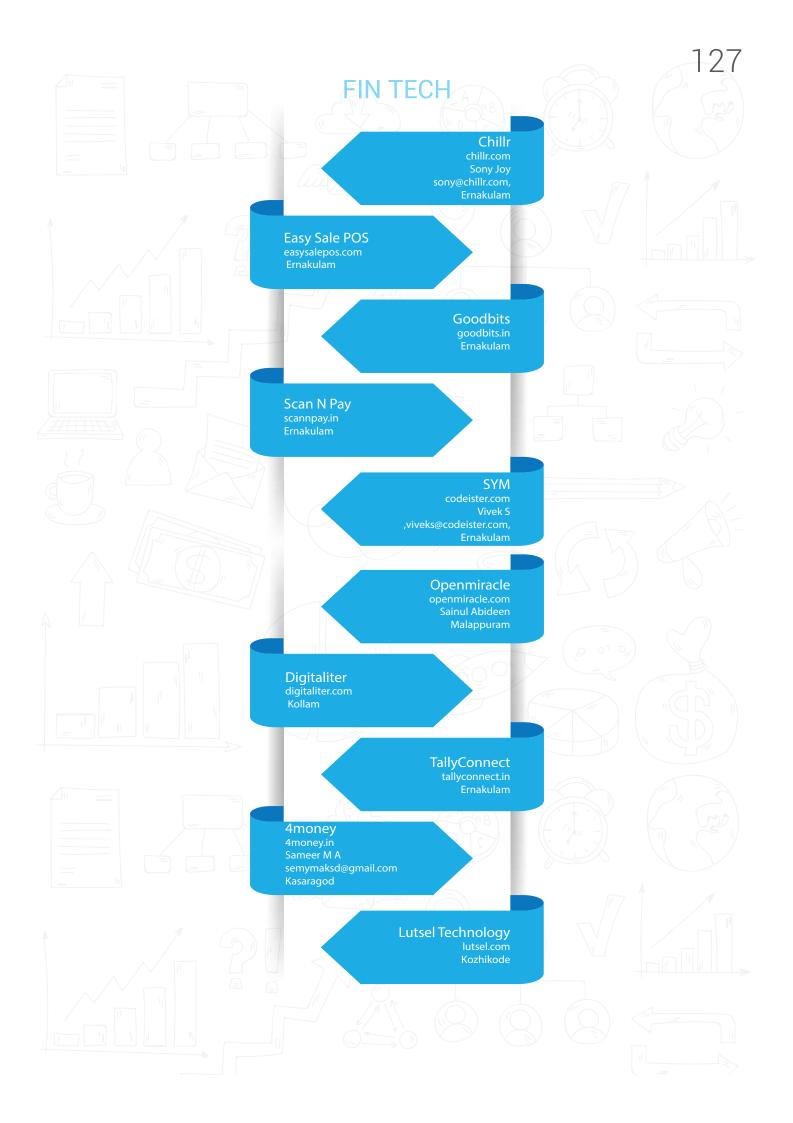
#### Nuekoz

Nasbeer Ahammed

Pirivu

Springr

springr.me Abhinav Sree





# AGRICULTURE

#### Syncosoft Solutions

www.syncosoft.net Sabeer Abdulla

#### **FarmLogics**

farmlogics.com

#### AgriGenome Labs

#### **Creative Farmer**

#### Kinemach Engineering and Machines

www.kinemach.com ashwanthmp@gmail.com

#### **NAVA** Design and Innovation

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#### Agroshop

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#### Loto Tribe

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## **Thumpi**

Mutual Farm mutualfarm.in

#### Phytochrom Bioscience

#### Orgaliva

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#### **Athmic Biotech Solutions**

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### **East Indian Nursery**

eastindianfarm.com Kannur

#### Daksh Farm

#### Farmer Tree

## AGRICULTURE

#### Aeka Biochemicals

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#### EnteKrishi

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#### DineFresh

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### KrishikKaran

krishikkaran.com Ernakulam

### Agriecom

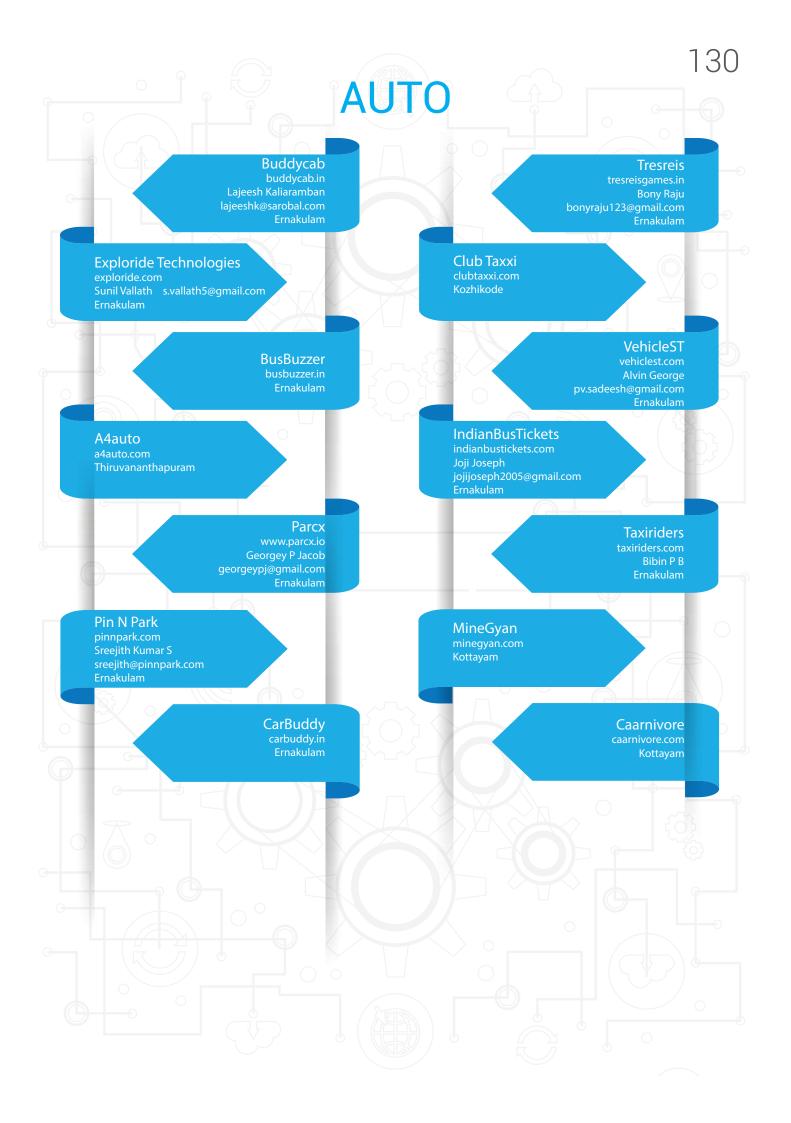
agriecom.in Kollam

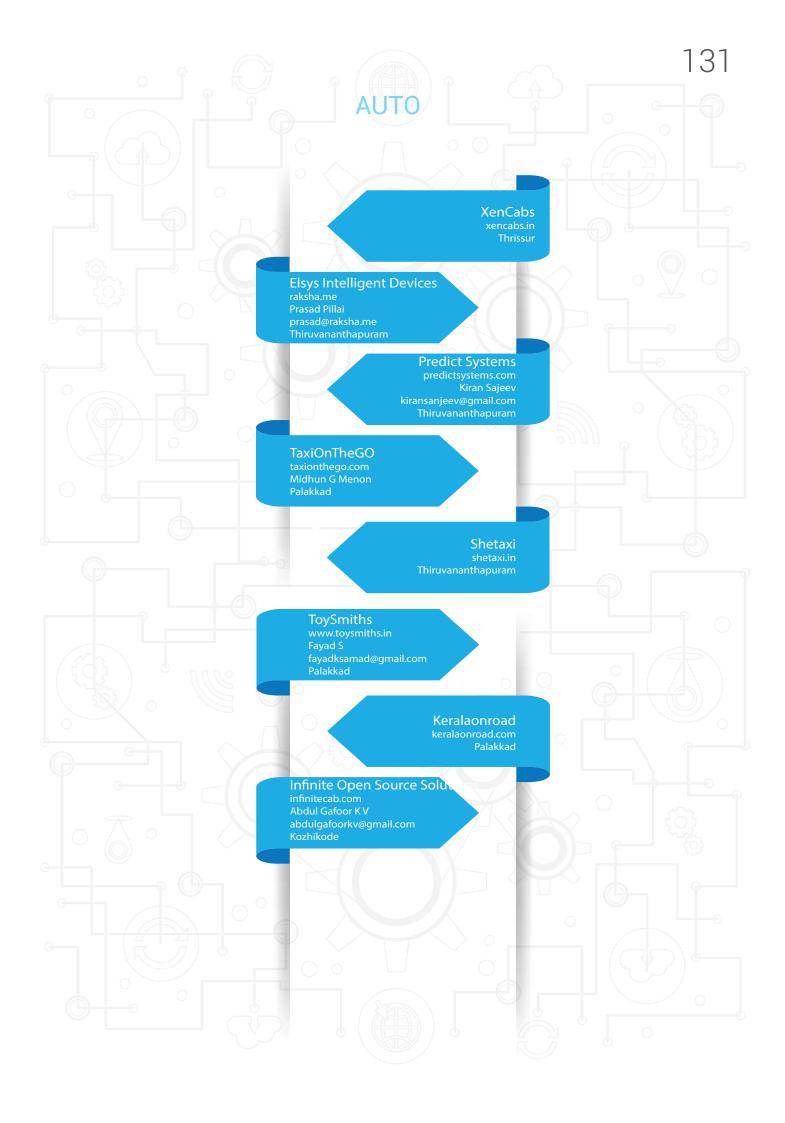
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> Triotrack triotrack.in Venu S Dharan venusdharan@gmail.com

Reecco Energy reecco.com

### Greenturn Labs www.greeniee.com

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#### Bamboo Power Box bamboopowerbox.in

Pradeep Kumar .B Ernakulam

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#### **HORUS DEVELOPERS**

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www.pushpakev.com Piyush Gupta piyush11@gmail.com Ernakulam

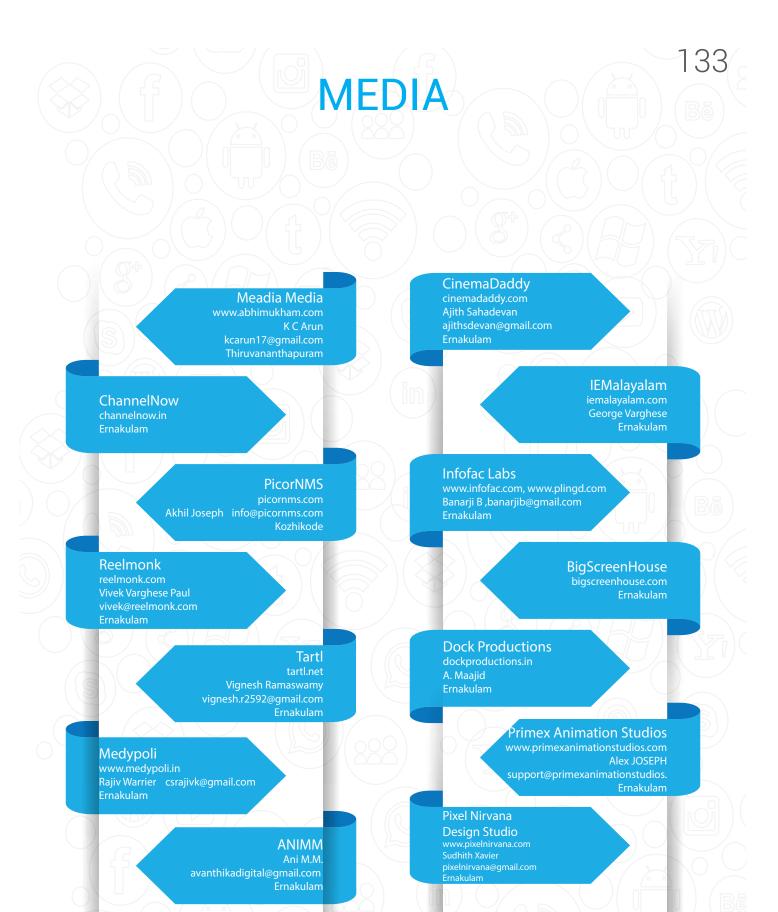
#### **Hound Electric**

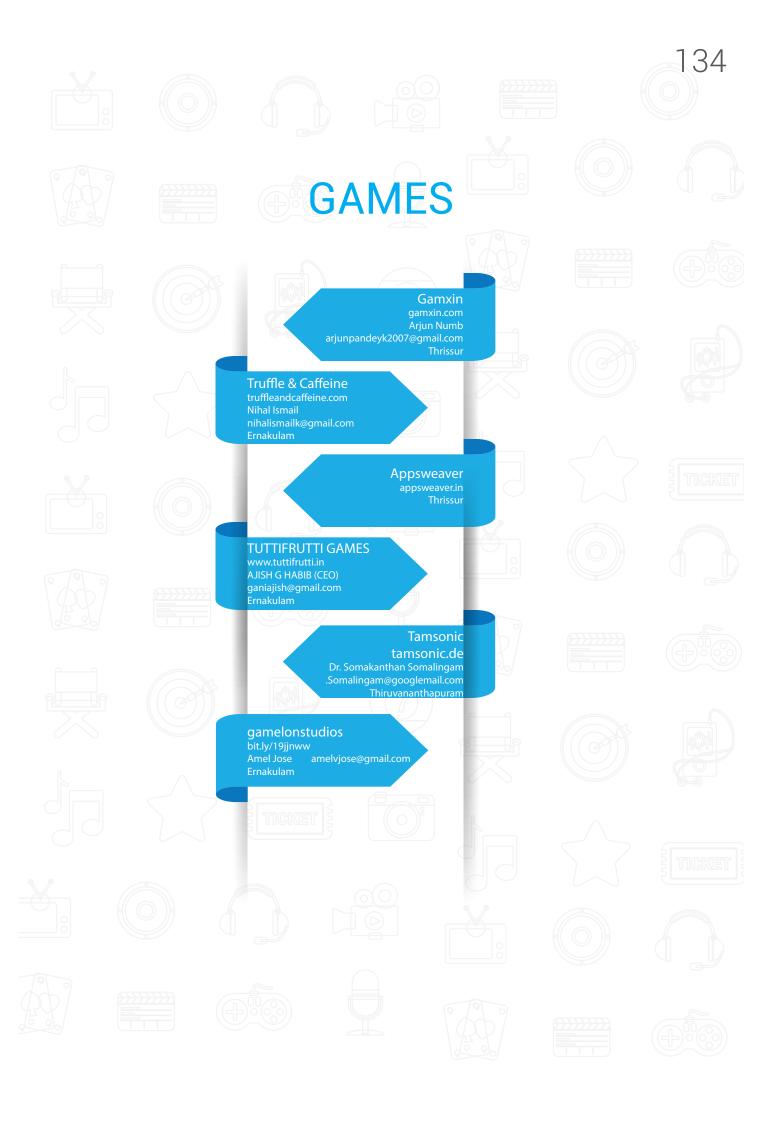
houndelectric.com Paul Alex paul@houndelectric.com, Ernakulam











# **FOOD**

#### Foober

foober.in

Sojan Jose sojanjose4u@gmail.com

Ernakulam

#### The CookBook

thecookbk.com John Mathew john@riafy.me Ernakulam

#### **Daily Fish**

dailyfish.in Alex Thomas

#### Koottan

koottan.com Pretheesh Thomas oretheeshmt@gmail.com Frnakulam

#### **Tastyspotscom**

www.tastyspots.com/ Abdul Manaf ceo@tastyspots.comErn akulam

#### buzfiz

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#### Yummy Kitchens

yummykitchens.in

Regil Das regil@ecom-developers.p

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#### Fry Bites

frybites.com Mohamed Ibrahim mails4mohamed@gmail.com Ernakulam

#### **YatraChef**

#### yatrachef.com

Rameez Ashraf ,rameez@yatrachef.com Ernakulam

#### **Farming Colors**

farming colors farmingcolors.com Akash Mathew kash.mathew@ciedtechnologies.com, Ernakulam

#### Onedaycart

onedaycart.cor Ernakulam

#### **Fishcart**

thefishcart.in Arshed Gulshan arshedg@gmail.com Kozhikode

#### Eat Malabari

eatmalabari.com Nideesh CP easymerchandise.ec.venture@gmail.com

#### **Nft FishCart**

nftfishcart.in Kozhikode

#### Scrooly

scrooly.com Kozhikode

#### Cookbook Recipes

cookbookrecipes.in John Mathew Ernakulam

#### CakeNow

cakenow.in Kozhikode

#### Foodee

foodeeapp.in Jinumon Tharayil jinutharayil 18@yahoo.com Ernakulam

#### **ECRHOTELAPP**

ecrhotelapp.com Frnakulam

Fresh Fish Kerala freshfishkerala.com

#### Appetizer - Club appetizer-club.com Frnakulam

#### D4Delivery d4delivery.co.in Abiram Suresh coolabiram@gmail.com Thiruvananthapuram

### Monsoon Street monsoonstreet.com

#### Cedex Technologies cedextech.com Mahroof K,mahrooof@yahoo.com

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#### The Food CRM thefoodcrm.com Aby Thomas abythomas007@gmail.com Ernakulam

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#### GrabUrFood graburfood.com Ashwin Raj ashwin.raj2753@gmail.com

## Expodine expodine.com Kozhikode

Eato

#### RecipeBook

recipebook.io Nikhil D ragonspy@gmail.com Ernakulam

#### Moremilaga moremilaga.com Thiruvananthapuram

#### Chef2Dine chef2dine.com Thiruvananthapuram

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