





4BIN



### **Meet the ELEVATE Winners**



#### Preface

ELEVATE is an initiative of the Department of Information Technology and Biotechnology, Government of Karnataka to provide a comprehensive entrepreneurship platform for startups.

The top technology based startups were chosen through a rigorous hunt across Karnataka State.

Karnataka Startup Policy 2015-20 envisions to create a world class startup ecosystem in the state through strategic investment and policy interventions leveraging the robust innovation climate in Bangalore. The goal of the policy is:

- o stimulating the growth of 20,000 technology based startups including 6,000 product startups by 2020 in Karnataka
- o mobilizing INR 20,000 Cr. by leveraging the Fund of Funds
- o creating 6 lakh direct and 12 lakh indirect employment opportunities
- o generating at least 25 innovative technology solutions with a social impact

Government is working towards realizing these goals by taking up many different methods and schemes. Following are some of the ways in which the Government is trying to ensure a world class ecosystem in the State:

- o New Age Incubation Network for professional and post graduate institutions in Tier II cities
- o Commercialization of technologies through Technology Business Incubators
- o Idea2PoC fund for idea stage funding
- o PPP for Fund of Funds
- o Social Innovation Grand Challenge
- o Exposure visits for startups
- o State support in the form of incentives and concessions

#### Minister's Message



SHRI PRIYANK KHARGE Hon'ble Minister for IT, BT and Tourism Government of Karnataka

Bengaluru is the startup capital of India and we take immense pride in the fact that Bengaluru fosters the youngest entrepreneurs in the world and is also the world's fastest growing startup ecosystem. Perhaps, we are the only State Government who are nurturing the ecosystem with strong policies like the i4 Policy, BT Millennium Policy, ESDM Policy and the KAVGC Policy, giving the ecosystem a strong foundation to help entrepreneurs and the established industries to flourish. We are also the first in the country to launch a dedicated Start Up Policy for budding entrepreneurs and a dedicated Start Up Cell that will provide extensive services like legal and accounting advice, mentoring, incubator options, subsidized tariffs and also seed funding. The Government of Karnataka is committed to provide the most conducive environment for investments and acceleration across all verticals to ensure we remain the leaders in technology and innovation.

### **Contents**

S. NO.	SECTOR	PAGE NOS.
1.	AGRITECH	3 - 4
2.	AEROSPACE & AVIATION	7 - 8
3.	ANIMATION, VISUAL EFFECTS, GAMING & COMICS (AVGC)	11 – 13
4.	CLEAN TECHNOLOGY	15 – 16
5.	MEDICALTECHNOLOGY	19 – 32
6.	INFORMATION TECHNOLOGY / INFORMATION TECHNOLOGY ENABLED SERVICES (IT/ITES)	35 - 53
7.	BIO TECHNOLOGY (BT)	55 - 60
8.	ELECTRONICS SYSTEM DESIGN & MANUFACTURING (ESDM)	63 - 71





Agritech





#### 5W Ventures Pvt. Ltd.

URL: www.isenseinnovations.com

Sector: Agritech

#### Project Title: Milk and Food Adulteration Kits

India faces a major problem of rampant milk adulteration. Food Safety Standards Authority of India (FSSAI) mentions that 68% milk is adulterated in India.

Milk & Food Adulteration Kits contains two portable products for a quick test of milk and food adulteration. The kit will have the capability to test various adulterants, for example, detergents, urea, starch etc. in milk with a simple two minute test. The novelty of the product lies in its design, reagents used to check adulteration and ease of usage.

#### **AMVICUBE**

URL: www.amvicube.com

Sector: Agritech



## Project Title: Automated, non-destructive testing instrument to detect the internal cracks, chalkiness and rice in Paddy

Rice is a staple crop in India and Grain testing is a necessary step to ensure good quality of grains reach the consumer. Currently, paddy is evaluated using manual and mechanical processes which do not necessarily have a scientific background.

The machine that will be developed will enable finding the cracks, chalkiness & rice in a given sample of paddy without removing the husk, i.e., automatically finding the percentage of broken rice and chalky rice in a given sample by absorption and reflection in a differential lighting environment.





#### **Geek Labs**

URL: www.gruhavela.com

Sector: Agritech

#### Project Title: Smart Gardening & Automation

Smart Gardening and Automation System that helps users schedule watering and fertilizer input activities for home gardens. The system is based on intelligent electronics that provides the user flexibility to control the system from anywhere.

The system monitors local weather (temperature, humidity & amp; precipitation) and automates the watering. This not only helps in the efficient usage of water but also intuitively protects the plants when the user is away.

# **Green Robot Machinery Pvt. Ltd.**



URL: www.grobomac.com **Sector: Agritech** 

#### Project Title: Precision Cotton Picking Machine

Cotton harvesting, currently, requires a large workforce and involves human drudgery. Multi-bloom cotton, the prevalent breed in India cannot be harvested using the machines from the west.

Precision Cotton Picking Machine is a 3D machine vision system for detecting and locating the bloomed cotton with a robotic arm. It is precisely manipulated to pick the cotton from the field directly. The technology can be customized for harvesting other crops like brinjal, ladies-finger and capsicum and also other tasks like precision weeding and pruning.



**Aerospace & Aviation** 





#### AADYAH Aerospace Pvt. Ltd.

URL: http://aadyah.com/

Sector: Aerospace & Aviation

#### Project Title: AADYAH Aerospace

Aerospace and defense sector is moving away from Hydro-mechanical actuation systems to Electro-Mechanical Systems. Today most flying systems such as defense aircrafts, jet fighters, rockets, missiles, unmanned aerial vehicles are controlled by Electro Mechanical Actuators and the civil aircrafts are slowly moving towards complete electric control.

Aadhyah is developing EMAs which are preferred over mechanical, hydraulic and pneumatic actuations because they provide significant advantages: reduced weight and volume requirements; control over motion and force; low energy consumption; reduced complexity of design process; ease of operation and maintenance and low Total Cost of Ownership.

#### Arksa Research Labs Pvt. Ltd.

URL: www.arksalabs.com

Sector: Aerospace & Aviation



#### Project Title: Star Tracker for Nano-Satellites

Arksa is a spectral imaging startup incorporated with a goal of providing spectral sensing solutions to UAV and Nano-Satellite operators in South Asia.

Star Sense is a star tracker specifically made to meet the objectives of the emerging small satellite market such as costs reduction, minimum power requirements, and low mass.

And ST - N100 is a compact, lightweight star tracker primarily designed to be used in micro and nanosatellites. It will be perfect for use in a CubeSat as the size allows it to be placed even in a 1U CubeSat.





#### Bellatrix Aerospace Pvt. Ltd.

URL: www.bellatrixaerospace.com

Sector: Aerospace & Aviation

#### Project Title: Microwave Electro-thermal Thruster

All satellites need propulsion systems. Mostly, satellites use chemical propulsion systems. The major disadvantage with chemical propulsion is that fuel constitutes most of the satellite mass, leaving very little room for useful payload. Bellatrix has developed an efficient type of electric propulsion system that runs on water as fuel and can reduce the overall cost of satellite mission by up to ten times. The system offers up to five times more space for payload, ten times greater mileage and twice the life. This results in higher Return on Investment on the satellite mission.

#### SYmbosim Simulations Pvt. Ltd.

 $\mathsf{URL} \colon \mathsf{www}.\mathsf{symbosim}.\mathsf{com}$ 

Sector: Aerospace & Aviation



## Project Title: A Reliable Analysis, Design and Optimization Platform for Composite Structures

SYmbosim employs state-of-the-art mathematical tools such as the Variational Asymptotic Method (VAM), ensuring efficiency, accuracy, and reliability as a complement to conventional Finite Element Analysis (FEA), with seamless two-way interface designs for all major industry-standard FEA software. 3-D FEA needs to solve a system of equations with millions of unknowns. In contrast, the problem size in VAM reduces to just hundreds of unknowns! Thus, solutions are lightning quick; yet with almost identical accuracy to 3-D FEA. During design optimization, such analyses have to be done repeatedly in an iterative fashion, accumulating enormous savings in time and computational cost.



# Animation, Visual Effects, Gaming & Comics (AVGC)





#### **Maantrika Studios**

URL: www.maantrikastudios.com **Sector: AVGC** 

Project Title: Makkakoo

Maantrika Studios is developing a 3D animation television series for kids in which each episode helps children to understand, discover their potential and brings awareness about social justice. The story theme revolves around competence, enjoyment, personal renewal, perseverance, and courage. The series has a super Hero (Makkakoo), the Character's Potential to be a Problem solver being a gadget freak will encourage Kids to find different problem solving approaches using today's technology.

### **Native Puppets Animation Studio**

URL: www.nativepuppets.com

Sector: AVGC



#### Project Title: Native Puppets Online High-end Animation & VFX Courses

Native Puppets is India's only online program focused in providing high-end training in the field of Animation and Visual FX. Students can learn and network directly from professional artists who have years of international-quality industry experience. Native Puppets is also developing its IP edutainment content for children in the age group of 4-8 years in webisode format with Baby Elephant as a protagonist.





#### Perspectiv Labs Pvt. Ltd.

URL: www.perspectiv.in

Sector: AVGC

#### Project Title: Volumetric 3D Streaming

Volumetric 3D Streaming technology allows the live recording and streaming of 3D scenes. This technology finds applications in many sectors but there are many technological challenges. The product developed by Perspectiv Labs includes a 3D image compression codec (3D MPEG), high fidelity 3D Capture System, 3D streaming server and 3D renderer on commonly available 3D Devices as a technology core.

# Tactile Education Services Pvt. Ltd.

URL: www.thinktac.in
Sector: AVGC



#### Project Title: Experiential Science Learning

ThinkTac Platform for Experimental Learning provides a platform for children to nurture creativity and critical thinking, and test ideas without fear.

ThinkTac programme offers experiential, hands-on learning, scaffold approach, LMS videos and guides and other models as supporting education tools.

With ThinkTac, children will be empowered to fulfil their potential in a society driven by technological innovations. It creates a scaffold to experientially learn science and cognitive life skills, while producing tangible learning outcomes in curricular areas.





# TDW Technologies Pvt. Ltd.

URL: www.autovrse.in
Sector: AVGC

#### Project Title: AutoVRse Design Studio and Virtual Showroom

AutoVRse Design Studio is the design and visualisation software of the future, it uses Virtual Reality to evaluate 3D models at scale, collaborate from anywhere and reduce dependency on physical prototypes.

AutoVRse Design Studio helps enterprises to import their 3D models into Virtual Reality, instantly. It enables engineers and designers to import their 3D models into Virtual Reality and inspect them at life size in a variety of environments with teams across the globe. Using the product, VR experiences can be created in less than a week, using high detail CAD data.

#### Varnaaz Technologies

URL: www.tarezameenpar.com **Sector: AVGC** 



#### Project Title: Tare Zameen Par - Digital Mobile Planetarium

An immersive learning, edutainment kit which can be used to educate school kids who are deprived of access to planetariums situated in metros. The multilingual audio visual 3D content covers spectrum of topics ranging from science to world history, culture to tourism, health awareness to public awareness. The whole kit can be packed in a suitcase and can be carried to the most remote places in India using high tech customized vans with minimum resources and cost.



**Clean Technology** 



# Breathe Applied Sciences Pvt. Ltd.

URL: www.breathesciences.com Sector: Clean Technology

#### Project Title: Convert CO2 to useful products

Industrialization and continuous generation of thermal power has led to increasing levels of carbon dioxide in the atmosphere attributing to global warming. Breathe's technology aims to develop valuable products at low cost using carbon di oxide from the coal powered fire station exhausts. These products are intended to be commercially viable and convert up to 200kg of CO2.

#### **Exceltech**

URL: www.exceltech.in
Sector: Clean Technology



#### Project Title: Innovative solutions for Clean Air and Clean Water

Air and water pollution plague the society at large in the country and availability of clean air and water for the common man is expensive and difficult to procure. Exceltech aims to produce air purifiers at an affordable and low replenishment cost. A ceiling fan based product for air purification and a broad spectrum anti-bacterial filter is under development. Low cost low energy consuming air to water generation units to make industries self-sustainable is also under development.





# Magveh Energy Recovery Systems Pvt. Ltd.

URL: www.magveh.com
Sector: Clean Technology

#### Project Title: Suspension Energy Recovery System (SERS)

Magveh develops energy recovery solutions which harnesses energy from motion. The Startup is currently developing Suspension Energy Recovery System for Ground vehicles which can recover and store energy from suspension movement in road transport vehicles.

The system will capture energy released from frequent vibrations of vehicle shock absorbers (dampers) and store it as electricity, which otherwise is lost in the form of heat. The linear motion is directly fed to a linear generator and hence no motion conversion is required such as in the case of rotary motors.



**Medical Technology** 





# Ameliorate Biotech Private Limited

URL: www.amelioratebiotech.com
Sector: Medical Technology

Project Title: Single diagnostic device for malaria, chikungunya and dengue Malaria, dengue, and chikungunya are mosquito-borne diseases. Although these diseases have almost identical manifestations, it is crucial to differentiate them for proper treatment. Ameliorate's combo kit can detect all three (dengue, malaria and chikungunya) together.

It is an antigen based vertical flow rapid diagnostic kit, in which sensitivity and specificity is enhanced by the use of nanotechnology. Currently available RDTs are lateral flow and suffer from drawback of less sensitivity showing false positives. The vertical flow dot technique overcomes these drawbacks.

#### Aprus Bio-medical Innovations

URL: www.aprusinnovations.com

Sector: Medical Technology



#### Project Title: Advanced Spray-able Foam Wound Healing Devices

APRUS has developed several innovative and cost-effective, spray able rapid-hemostatic advanced wound care device embodiments with anti-microbial properties using its proprietary Platform Technology.

The composition has been formulated to be dispensed as a spray, foam or gel and uses a tactic and film forming agents that helps with coating the wound and forming a barrier. In a preferred embodiment, nano-diamonds will be used as intra-lesional drug delivery device to deliver growth factors and angiogenic molecules to accelerate wound healing.





# Audicor Cardiometrics Pvt. Ltd.

URL: www.audicorcardiometrics.com
Sector: Medical Technology

### Project Title: Smart Biomedical Sensor for Screening and Management of Early Stage Heart Failure (NCD)

Screening of cardiovascular diseases is limited to measuring hypertension and ECG measurements both of which are notoriously insensitive to early stage heart failure.

Audicor has developed a cluster sensor that improves the detection of early stage systolic and diastolic dysfunction apart from other heart anomalies related to compromised hemodynamic performance of the heart. This helps the frontline care givers to provide higher quality of referrals care. This technology cannot be misused in prenatal sex determination and thus does not require expensive governance.



#### Bigsolv Advanced Labs Private Limited

URL: www.bigsolv.com

Sector: Medical Technology

### Project Title: Virtual Reality Based Surgical Simulators with Haptic/Tactile Features

A virtual reality surgical simulation platform allows aspiring surgeons to learn, practice and evaluate on key-hole or minimally invasive surgery techniques with tactile and force feedback through haptics technology along a graded set of increasingly complex exercises. Learning happens without impacting patient safety, which is critical.





# Biodesign Innovation Labs Pvt. Ltd.

URL: www.respiraidsite.wordpress.com

Sector: Medical Technology

#### Project Title: Respiraid

RespirAid is a mechanical ventilation assist device which delivers assist control intermittent positive pressure ventilation by compressing Artificial Manual Breathing Unit (AMBU).

As the device uses existing AMBU for the compression, it is simpler to automate the process of hand ventilation and has lower costs and skill requirement. Various sensors are used to detect the working conditions of the system and a feedback loop is introduced for updates as per requirements.



#### **Caltech Innovations Private Limited**

URL: www.icaltech.com

Sector: Medical Technology

#### Project Title: Development of Pulmonary Function Test Device

The current pulmonary Function Test devices (also known as spirometers) require hard breathing from patients for lung function measurement and analysis.

Caltech's has developed a patient friendly medical device which requires minimum patient efforts for the same functionality. The patient has to breathe normally to get lung functionality tests. This is also very useful for children and geriatric patients for lung function diagnosis. Caltech has also developed a remote monitoring medical device, an IOT device which enables the doctor to access tests remotely & the patient need not visit hospitals for breathing tests.



#### Cradlewise™

# **Chigru Innovations OPC Private Limited**

URL: www.cradlewise.com
Sector: Medical Technology

#### Project Title: Smart-cradle for baby sleep management and health monitoring

Chigru has developed a smart cradle that gives the baby a comfortable womb-like environment to sleep. The integrated baby monitor keeps a watch on the baby for safety. The responsive swinging feature detects discomfort and starts swinging the cradle to soothe the baby to sleep. The cradle uses patented technology for swinging which is extremely noiseless and low power. The entire cradle is battery operated.

The baby monitoring system will record vitals like breath rate, heart rate, posture, activity and give alerts for unsafe sleep positions. The monitor can also detect a mosquito and alert the parent. Entire monitoring is contactless.



#### Clean Bill of Health Private Limited

URL: www.virtual.clinic.com
Sector: Medical Technology

#### Project Title: Virtual Clinic

Virtual Clinic is a product for doctors to create clinical documentation in 70% lesser time, on their own smartphones. It is designed for the Indian setting and customized for each specialty. Focus is on putting this data to good use, to create a continuity in the delivery of healthcare to patients even after they have left the hospital or the clinic. Machine-learning capabilities are built into the doctor's app to create an experience that mostly relies on taps and swipes rather than typing.



#### Coeo Labs

URL: www.coeo.in

Sector: Medical Technology



### Project Title: VAP Care- An intelligent secretion and oral hygiene management system

Every year more than 250,000 people die because of ventilator associated pneumonia, one of the most common and most deadly ICU-acquired infection. This infection happens because infected secretions trickle downs from mouth and throat to the lungs.

VAP Care, an intelligent secretion and oral hygiene management system senses and removes secretions or saliva from the patient to make sure none of the infection secretions reach to the lungs and create infections. This machine also maintains oral hygiene in these patients by automatically cleaning the oral cavity with an antibacterial solution.



#### Cyclops Medtech Pvt. Ltd.

URL: www.cyclopsmedtech.com
Sector: Medical Technology

Project Title: Eye tracking

#### based solution for diagnosing vertigo, balance disorders and stroke with AVS

BalanceEye, a product that is being used to diagnose root cause for vertigo, balance disorders and stroke with acute vertiginous syndrome. The solution involves eye tracking goggles, image processing engine, cloud backbone and machine learning based interpretation modules.

Eye tracking goggles capture eye video and sends the same to desktop where the image processing engine extracts values and graphs and sends the same to cloud. The ML module on the cloud analyses data and sends back accurate interpretations.





#### GingerMind Technologies Pvt. Ltd.

URL: www.eye-d.in

Sector: Medical Technology

# Project Title: Eye-D - Al-powered smartphone assistant for the visually impaired

Eye-D, the Al-powered smartphones will help visually impaired lead a more independent life in carrying out day to day tasks. The artificial intelligence based smartphone app lets a user navigate in the city, identify objects and read printed text. A hardware, Eye-D Keypad (patent pending), that helps a blind person easily use a fully touch screen and become digitally literate is being developed.



#### Happy Reliable Surgeries Pvt. Ltd. (OPC)

URL: www.hrsnavigation.com
Sector: Medical Technology

#### Project Title: State of Art: Surgical Navigation System

Surgical navigation uses state of art technology used globally for making complex surgeries like brain & spine safer. A surgical navigation system for the brain has been developed. It creates a precise virtual 3D model of the patient from the CT/MRI data with all the information like tumor, blood vessels etc. It then provides real time visualization of a surgeon's instruments on the virtual 3D patient within millimeter accuracy. It then provides live guidance to the surgeon like a GPS device to precisely reachthe area of interest and avoiding damage to the critical area.





# Innov4Sight Health and Biomedical Systems Pvt. Ltd.

URL: http://www.4sight-health.com

Sector: Medical Technology

# **Project Title: Elevating 100,000 couple to parenthood by 2022** Innov4Sight has developed Regenerative Medicine based therapeutics to address male and female infertility conditions such as endometrial defects, poor ovarian reserve and primary ovarian insufficiency, erectile dysfunction

and sperm quality disorders such as Oligospermia /Azoospermia.

Vyabl is a platform that serves as an ecosystem for fertility care from spreading awareness using Reproductive Health Quotient assessment through diagnostics screening to facilitation of fertility procedures through aggregation service. Vyabl is powered by a Fertility Electronic Health Records & Clinical Decision Support System to assist in adoption of Evidence Based Medicine practice.

#### Janitri Innovations Pvt. Ltd.

URL: www.janitri.in

Sector: Medical Technology

#### Project Title: DAKSH - An Intelligent Labor Monitoring Tool

More than 80% deliveries occur with the assistance of staff nurses in low resource healthcare settings in India. DAKSH is an intelligent intra and post-partum monitoring tool which helps staff nurses/midwives during the intra and post-partum period in their decision making and protocol adherence. The product allows the staff nurse/midwives to register and enter vital signs of a pregnant woman. It reminds the staff nurse to monitor the intra and post-partum vitals, as per the standard protocols. It also generates alerts in case of complications, based on an in-build algorithm.





#### M/S Nirnal Water Filter

URL:

Sector: Medical Technology

#### Project Title: Reusable Water Bottle with Integrated Disposal Filter

Nirnal Water Filter is a flexible water filter that includes an approach for filtering unfiltered water with the bottle inbuilt. The system has a porous housing containing filter materials in it, which can be attached and removed from a water bottle as a unit. Water is filtered when pressure is generated by squeezing the bottle. Force from the bottle cavity is applied through the filter along an axial flow path with water coming out through a spout. This is designed for the removal of a variety of biological, organic or inorganic contaminants.

#### Mendonca Medical Biotech



URL: www.mendoncamedicalbiotech.com

Sector: Medical Technology

## Project Title: Novel Exosomal miRNA biomarkers for infectious disease diagnosis.

Current methods for diagnosing infections rely on culture methods, which takes 24-72 hours and an expert microbiologist. Other methods include detection of antibody or antigen, which has to be performed individually for every suspected infectious agent. Novel exosomal miRNA based biomarker panels to diagnose multiple infections from as a single clinical specimen are under development. This would drastically reduce the time and effort taken for diagnosis. This would enable provision of immediate treatment necessary for a rising number of deadly infections that are difficult to diagnose in time.



# **MIMYK**Healthcare simulation

#### Mimyk

URL: http://mimyk.com/

Sector: Medical Technology

### Project Title: An immersive medical simulation platform

Mimyk platform employs haptic and VR-based simulations for training doctors in a variety of interventional procedures such as endoscopy, colonoscopy, and bronchoscopy. Haptics technology is sophisticated and provides the required immersion in a training system.

The interaction models are physics based and provide superior and realistic scenes as compared to graphic only scenes currently available in medical simulators.



# **Mother Diagnostic Systems Private Limited**

 ${\tt URL: www.mother diagnostic systems.com}\\$ 

Sector: Medical Technology

#### Project Title: Low cost Digital X-Ray for medium size hospitals

The designed product is a Digital X-Ray which costs less and has better image quality compared to conventional Digital X-Ray. It is also safer, as effective dosage is 50% less compared to conventional Digital X-Ray. They can be effectively used in medical and health camps. This will benefit urban and rural middle size hospitals to deliver services more effectively.





Title: Non-contact Privacy-Aware Breast Cancer Screening

#### **NIRAMAI Health Analytix Private Limited**

URL: http://www.niramai.com Sector: Medical Technology

Breast Cancer is the leading cause of cancer deaths among women today. One in every 25 women in India is at the risk of developing breast cancer, with 50% survival rate. Early diagnosis is very critical to reduce mortality rates. Niramai is developing a low cost, portable cancer screening tool that can detect early stage cancer. Niramai Solution is a non-contact, noninvasive, privacy sensitive solution that addresses the psychological barriers that women have. This computer-aided diagnostic solution is portable and requires low skill to operate and hence is suitable for large scale screening in rural and semi-urban areas.



#### Olivewear Pvt. Ltd.

Sector: Medical Technology

Project Title: Connected devices for remote healthcare monitoring

An IoT and wearable kit that can monitor pregnant women, diabetic patients and high blood pressure cases without skilled manpower requirement has been developed.

The kit records the parameters digitally and sends it to the cloud where a machine learning algorithm screens high risk patients. This innovation is a blend of IoT, cloud and tele-medicine support for remote areas.





#### **Openwater.in Pvt Ltd**

URL: www.openwater.in
Sector: Medical Technology

#### Project Title: Hassle-Free wastewater treatment and management

Openwater Wastewater treatment technology can generate potable water from wastewater with almost no water wastage and by consuming very little energy. The technology is different from existing water treatment techniques, as it doesn't require fine feature fabrication, membranes or chemicals which makes it easy to build and very environmentally friendly.



#### Path Shodh Healthcare Pvt. Ltd.

URL: www.pathshodh.com
Sector: Medical Technology

Project Title: Next Generation Bio-sensing for Diabetes and complications PathShodh Healthcare has developed a novel patented point-of-care medical diagnostic device for diabetes management, chronic kidney disease, anaemia and malnutrition. The single device- anuPath multianalyte diagnostic device can perform test for all listed conditions utilizing dry test strips. This eliminates the need for multiple devices for performing these test. Also the test strips are not based on enzymatic or immuno-assay based detection, which makes testing quick, very affordable and robust to changes in temperature/humidity. The test strips along with the device can be used by minimally trained person in any environment making it conducive for grass-root level penetration.





# Pentavalent Bio Sciences Pvt. Ltd.

URL: www.pentavalent.in
Sector: Medical Technology

### Project Title: PentaFluVac - An indigenous replication-incompetent viral vaccine for human influenza

PentaFluVac is a promising live attenuated universal flu vaccine that will evoke protection against infections caused by any strain of influenza; and induce immunity to restrict virus transmission within the population.



#### Sascan Meditech Pvt Ltd

URL: www.sascan.in

Sector: Medical Technology

### Project Title: Hand-held device for non-invasive screening and detection of oral and cervical cancers

Sascan hand-held is a non-invasive, point-of-care device for screening and detection of oral and cervical pre-cancers by multi-spectral imaging of tissue auto-fluorescence and oxygenated haemoglobin absorption. The device uses low-cost LEDs in conjunction with monochrome camera and proprietary software to capture multispectral images of the oral cavity/cervix. The recorded images are processed in real-time to locate the most malignant site in the lesion for biopsy, which leads to a reduction in the large number of false negatives and false positives associated with the conventional screening modalities practiced in the country.





#### Scintilla Bio-MARC Pvt. Ltd.

URL: www.scintillabio-marc.com Sector: Medical Technology

# Project Title: Identification of novel genetic biomarkers in Women with Inherited Anemia and Development of Transdermal Iron Delivery Method

Scintilla aims to contribute to scaling up the testing of genetic biomarkers in women residing in districts with high burden of iron deficiency (IRDA) in India, where maternal and infant mortality is high. Through this project, Scintilla aims to identify genetic biomarkers causing Iron Deficiency and individualize disease-specific management. The project will also develop treatment strategy and primer kits for a couple of ailments.

#### SIAMAF Healthcare Pvt. Ltd.

URLwww.siamaf.com

Sector: Medical Technology

# Project Title: Pulse induction magnetic nanoparticle detector for lymph node mapping

Sentinel lymph node biopsy (SLNB) is a vital procedure in the staging of cancer. Determination of the metastatic status of lymph nodes is an important factor used to develop a therapeutic plan and to predict prognosis. Unfortunately, there are no radiation free, non-invasive, safe and cost-effective clinical methods that can reliably detect and adequately evaluate metastases in lymph nodes. SIAMAF's ultrasensitive magnetic sensing device based on pulse induction principle will be able to detect lymph nodes without using radiation.



# TrakRay Innovations Pvt. Ltd.



URL: www.trakray.com

Sector: Medical Technology

#### Project Title: Precise Indoor Location Technology/Solutions Development

Ultra-Wide-Band (UWB) based precise real time Indoor Location Tracking Solution being developed helps to track/locate assets or humans in any indoor area with +/-10cm accuracy (3D). This mainly involves small mobile devices(situated at unknown locations) called 'assets', fixed infrastructure (at known locations) based devices called 'anchors' (i.e. gateways) and a location estimation engine that runs on a remote/cloud server which produces xyz coordinates of tagged devices.



Information Technology /
Information Technology Enabled
Services (IT/ITES)





# Aissel Technologies Pvt. Ltd

http://www.aissel.com/ Sector: IT/ITES

# Project Title: Thought Leader Management Software for Pharmaceuticals, Medical Devices & Biotechnology

Aissel Management Software offers easy-to-use cutting-edge enterprisecloud application for Medical Key Opinion Leader (KOL) Management and curated-data solutions for identifying influential medical experts.

The application connects internal medical experts of life sciences companies with the right external medical experts. This solution shall facilitate users to discover accurate and comprehensive physician profiles in any given therapeutic area and geography, and engage physicians with precise expertise and research interests as is necessary for a particular drug or device.

### ANB Fuels Private Limited

www.mypetrolpump.com
Sector: IT/ITES



### Project Title: My Petrol Pump, Asmarter way to refuel

In India, it is estimated that 1 lakh additional fuel stations are required to meet the increasing fuel demand. Also, there are rising problems of pilferage, adulteration as well as unsafe handling of fuel.

My Petrol Pump brings in state of art technology to enable a safe, trustful and efficient on-site fuel delivery system. The solution component includes fuel ordering system through e-commerce, high-tech fuel transport & delivery engineering, IoT enabled monitoring, tracking and safety solution.





# Anekastra Software Technologies Pvt Ltd

www.anekastra.com
Sector: IT/ITES

#### Project Title: Social Media Tracking

With an ever increasing number of social media users, many people leverage social media as a tool to communicate and share their thoughts and activities.

Anekastra's product tracks social media activities across different platforms like Facebook, Twitter, LinkedIn, Blogs, etc. and messaging apps like Hike etc. This application tracks Illicit, criminal, anti-social and terrorist activities. This application shall also facilitate police and intelligence personals to track and seize anti-social activities taking place on the social media.

# Bitgram Technologies Pvt. Ltd.

URL: www.bitgram.in
Sector: IT/ITES



# Project Title: A global Super Identity for citizens, to empower them to access Business services and Govt. schemes real time

The product provides Super Identity Solution for every citizen - which is a first in India and uses the best features of Artificial Intelligence and the blockchain to combat Frauds, Forgeries, Asset Duplication and misrepresentation of Identities. This also helps MSME borrowers get instant access to Government funds, schemes and micro finance, thus providing financial inclusion.





# Brainybatch Technologies Pvt. Ltd.

URL: www.brainybatch.com

Sector: IT/ITES

# Project Title: Making Education Accessible & Affordable

In India, 47 million youth dropped out of secondary and higher secondary school in the year 2016, as reported by Montreal-based UNESCO Institute for Statistics and Global Education Monitoring. Poverty, availability & accessibility are three of primary reasons why children drop out.

Brainybatch is developing a product which has a unified application interface that centralizes admission for all schools and colleges. The unified loan interface provides 0% EMI for 10 Months to increase enrollments of students into educational institutions.

# **Chronosphere Technologies Pvt. Ltd.**

URL: www.mitter.io
Sector: IT/ITES



# Project Title: MITTER | Developer Messaging Platform

WhatsApp, FB messenger and other messaging applications have changed the way consumer expects the product or the service to be developed and delivered. However, many businesses are yet to keep up with the rapid shift in technology and consumer expectations.

MITTER d solution with APIs and SDKs developers and enterprises is poised to build messaging service or add chat into the applications, hastening the process and customizing it to suit the aforesaid business need. What might have taken months of effort shall now may just take a few weeks' time with intelligent application.





### DataGlen Technologies Pvt. Ltd

URL: www.dataglen.com

Sector: IT/ITES

# Project Title: Solar Asset Management and Energy Storage Management systems

In order to shift to renewable energy sources as well as make power accessible and inexpensive in remote location, managing power generation and distribution through real time monitoring shall emerge as an essential enabler to safeguard system efficiency and sustainability.

The proposed solution provides IoT and AI powered platform for remotely managing, monitoring, controlling and optimizing renewable energy resources. Its IoT platform, helps customers maximize their ROI on renewable energy assets by providing actionable insights on underperforming assets and inefficiencies in the system.

# EFLIGHT (Ghagan Aviation Pvt Ltd)

URL: www.eflight.aero
Sector: IT/ITES



#### Project Title: Flight Planning Support Simplified

Aviation market faces lot of complexities while conducting flight operations for e.g. Ground Handling rates, Hotel room rates, Fuel & Doctor availability, Crew Transportation etc. When flight is rescheduled, the concemed stakeholders are required to be informed. The proposed solution is a complete flight planning website solution that integrates airport information, weather, duty limit & fuel for regional airlines and business aircraft etc. The solution provides an integrated flight planning support system in a most cost effective and easy to operate in simplified manner.





# **Esyasoft Technologies**

URL: www.esyasoft.com **Sector: IT/ITES** 

# Project Title: Transforming Energy Utilities through Big Data & Analytics Platform

In India, one out of four people do not have access to electricity. It has been estimated that 20% of the electricity generated gets wasted due to inefficient and outdated infrastructure and distribution system

The proposed solution caters exclusively to the Smart Grid - Smart City segment, with an objective of modernizing power distribution networks to reduce costs, improve efficiency and increase revenues, with an integrated Smart Grid Suite that is designed to meet all the requirements of an utility looking to deploy Smart Grids by collaborating with the leading Energy Utilities, OEMs & System Integrators to deploy these solutions through an enterprise license fee model or Per node/Per meter based SaaS fee model.

# **Ethnus Technologies**

URL: www.eguru.com
Sector: IT/ITES



### Project Title: On Demand Mock Interviews

Job seekers, particularly from rural places suffer from the drag of disconnect with industry experts who are potential job providers.

This product provides a platform for on demand simulated interviews for job seekers from experts. This platform enables students from rural places to connect with Industry experts in real time, using AI and deep Machine learning and trains the candidates for placement.





#### **Eventosaur**

URL: www.eventosaur.com

Sector: IT/ITES

#### Project Title: Eventosaur SaaS-enabled marketplace

The product provides a SaaS-enabled marketplace platform that allows vendors and service providers to manage their leads, calendars, payments, invoices, customer interactions, etc. on a single app.

The customers can leverage this platform as a one-stop marketplace for all their event-planning needs. This platform enables service providers to concentrate only on their core competencies and ensures that they get a steady flow of business opportunities. Similarly, this application facilitates consumers in planning their events.

### **Fyle**

URL: www.fyle.in
Sector: IT/ITES



#### Project Title: Fyle-Intelligent Expense Management

Business Expense management system often requires manual processing which makes it tedious, time-consuming and error prone. This may also incur high cost of processing the information.

The proposed solution automates the expense management system. The product component includes automatic extractor of expense data from ereceipts, automated policy check and compliance- for admins, automatic tracker of expenses reports and subsequently generating smart expense reports on a click.





#### **Havstruck Solutions Pvt Ltd**

URL: www.havstruck.com

Sector: IT/ITES

#### Project Title: Havstruck-Freight made easy

There is a dearth in provision of long haul services for SMEs. Large 3PL players, transportation companies and tech players generally provide long haul services to large businesses. SMEs often procure trucks on per transaction basis, through multiple brokers and are uncertain of price & availability. On the supplier side, traditional brokers fail at efficiently placing trucks and truckers even might have to wait for 3-5 days to get business. The proposed solution for logistic industry is in alignment of demand and supply vis-à-vis traditional business practices and is targeted at problems faced both by SMEs and truckers. Through its app/website, truckers can provide information on their location with prices and SMEs can conveniently search & book trucks on portal at the lowest integral cost.

# **Hublin Enterprises**

URL: https://www.fabwoods.in

Sector: IT/ITES

falwoods

#### Project Title: Wooden Eyewear Manufacturing and ecommerce Website.

In eyewear industry, there appears to be a good potential of using ecofriendly material with aesthetically elegant look.

The product combines Wood and traditional material like Acetate and Metal to produce eyewear which is eco-friendly and aesthetically elegant. The product is handcrafted and is made in India. Online website portal is leveraged to reach the end customer base.



# i-byk

URL: www.i-byk.com
Sector: IT/ITES

#### Project Title: Mobile based sharing of IOT bicycles

Usage of bicycle helps in decongestion of road, reduction in traffic load and pollution level.

The proposed solution provides mobile app based bike sharing facility which shall provide users a seamless cycling experience and encourage people to use bicycle as public transport and thereby adopt a healthier lifestyle. The bikes are GPS tracked and can be locked/unlocked using IOT locks through mobile application. The customers can make their payment through mobile wallet

# InnoDI Water Treatment Technologies Pvt. Ltd.

URL: www.innodi.in
Sector: IT/ITES



Project Title: Water Treatment through

### Capacitive De-ionization

Clean drinking water is a scarce resource and innovative technologies are needed for safe and efficient production of the same.

The proposed solution is an innovative water treatment technology that can treat ground or surface water containing high dissolved salts and toxins such as fluorides, heavy metals, Arsenic, Nitrates, and Bacteria etc. to produce clean drinkable water meeting WHO standards. This technology is called Capacitive De-ionization (CDI) and can be an alternative to RO technology. This is a high recovery system where the wastage of water is 20% only. It does not use any chemicals, consumes very low power and has low operating cost for treating water.





#### **Jankaar Initiatives**

URL: www.jankaar.com
Sector: IT/ITES

#### Project Title: Jankaar-Connecting people with policies

Government of India, directly and indirectly, spends over USD 43 Billion in funding over 940 social welfare schemes. However, it is seen that the benefits of these schemes are not reaching the intended beneficiaries due to lack of awareness, operational inefficiencies, and leakages.

The proposed solution is a single window, multi-language, multi-platform, policy delivery system which addresses the information problem through mobile and a helpline, addresses the operational efficiency problem by digitizing and partially automating the application process, end-to-end; and addresses the leakage problem by creating transparency and visibility all levels through a publically accessible real time analytics dashboard.

### Jouska Tech Private Limited

URL: www.finly.io
Sector: IT/ITES



#### Project Title: Finly Expense Management System

There is need of a comprehensive expense management system that streamlines end-to-end expense related processes within an organization. The proposed product simplifies the process of getting approvals, filling out expense reports, disbursing cash, tracking and controlling spends, managing receipts, and processing reimbursements. To enhance transparency and ease of use the product has integrated Expense Management System with multiple Payment instruments such as Prepaid Cards, NEFT etc. All expenses incurred through these instruments are instantly available in the dashboard. Its policy engine ensures all expenses are verified and approved by the respective stakeholders. These expenses are also synced with accounting systems.





### Mygram Connect Private Limited

URL: www.mygram.me **Sector: IT/ITES** 

#### Project Title: Mygram Connect Private Limited

In India, a significant percentage of population do not possess smartphone. They often face challenge to access bank statements, email etc. "on the go" which requires authentication. The proposed solution enables users to send Secure URLs over SMS which "only open on the registered phone" - nowhere else. This allows users to conduct app-like transactions over SMS itself, foregoing the need for an app. This product shall facilitate in removing barriers of entry for base of the pyramid populations, and shall facilitate in eliminating digital divide.

### NayaGaadi

URL: www.NayaGaadi.com

Sector: IT/ITES



# Project Title: NayaGaadi - India's first multi-brand, multi-category, multi-channel online marketplace for all NEW Vehicles

NayaGaadi is on the road to revolutionize the NEW automobile buying experience by using the online channel. It aims to -attract a significant market of online customers looking for a best deal and be a single window for all services and products related to the new automobile buying. It is an avenue for both dealers and manufacturers to improve sales by creating an online sales channel. It will be a launch pad for introducing New Brands /New Vehicles/New Concepts before reaching the offline mode.





#### Nexus 3D

URL: https://nexus3dprint.com/

Sector: IT/ITES

#### Project Title: Nexus 3D - online platform for 3D printing

Nexus 3D has developed an online platform that enables customers to choose material, color and many other aspects of 3D printing on one platform and order anything that is required, at the same time it aggregates the service providers and brings them to market at very minimal cost by cutting down their expenses of marketing, sales and promotion. This online platform is integrated with quote engine which gives price quotes instantly by just uploading the design file to the platform and also lets customers compare between many service providers to get the best price and quickest delivery time.

#### Oust Labs India Pvt. Ltd.

URL: www.oustlabs.com

Sector: IT/ITES



# Project Title: Micro-learning for Skill Development

Oust Enterprise SaaS platform enables businesses to train their internal and external workforce directly on their mobile device through bite sized training modules. Authoring platform, makes it easy to repurpose internal content (into rich, multi-lingual, mobile friendly content), distribute and measure effectiveness rapidly. With the Oust APIs and SDKs, enterprises have the flexibility to make learning a core part of the user workflow, helping them to drive wide scale adoption, faster ramp up, higher completion, and a more evolved learning culture.





### ParkingRhino Online Services Pvt. Ltd.

URL: https://www.parkingrhino.com

Sector: IT/ITES

#### Project Title: Parking Rhino Global SaaS Smart Parking Platform

Integrated Smart parking solution for the global market is a cloud-based AI/ML solution which as a service platform can integrate with any existing parking infrastructure or build the parking infrastructure using the mix of hardware and software solution with AI/ML pattern matching algorithm. App based products for on-street/off-street parking operators to manage parking spaces, integration with IoT based sensors, consumer apps (Patented algorithm) to get real-time availability, search, book or navigate to parking space in advance and smart city enterprise product integration has been developed.

# **Quick Logi Technologies**

URL: www.quicklogi.com

Sector: IT/ITES



# Project Title: Smart Cricket Bat powered by high-speed motion sensors and Artificial Intelligence

QuickLogi is a motion intelligence technology platform that can revolutionize the sports training and coaching industry. The flagship product 'StanceBeam,' offers personal coaching and real-time performance benchmarking system for batsmen. With StanceBeam, anyone can afford to get access to state-of-the-art professional cricket coaching, anytime, anywhere.



# ReTiSense

### Retisense Tech India Pvt. Ltd.

URL: www.retisense.com

Sector: IT/ITES

### Project Title: Stridalyzer

ReTiSense is developing insoles with Biomechanical modeling and computation algorithms that enable real time analysis and guidance in various areas of athletics and sports. In addition, the technology can be easily integrated with existing footwear, making it attractive for licensing. Users are also given actionable guidance for injury prevention and performance improvement in sports using advanced sensor and analytics technologies.

# **Scalend Technologies**

URL: www.scalend.com

Sector: IT/ITES



Data Insights Platform for Financial Services Companies

# Project Title: Big Data Discovery and Insights Platform for Financial Services Companies

Scalend Insights Appliance is a ready to use AI-enabled Data Discovery and Insights Platform geared to solve key data challenges faced by Financial Services companies. Enables organizations to start seeing insights in days. The platform comes with accelerated solutions around customer journey, fraud modeling, anomaly detection, API usage, predictive and prescriptive insights.





### **Scapic**

URL: www.scapic.com
Sector: IT/ITES

#### Project Title: Scapic - Build Virtual and Augmented reality

Creating and consuming Virtual Reality content is difficult. Scapicis a simple content platform for creating & exploring Virtual and Augmented Reality experiences. One can build, share and watch VR/AR experiences, all on the cloud without any need to add an app. The experiences run on all devices and by sharing the URL, one can collaborate and watch across all devices.

# Selfdot Technologies (OPC) Private Limited

URL: www.selfdot.in
Sector: IT/ITES



### Project Title: Self Acquired DNA of Things

smartDNA is the global patent foot-print in more than eight major international jurisdictions. smartDNA is first non-clonable technology that can be authenticated by a smartphone in an instant, in an automated and precise manner. Despite having access to original smartDNA - counterfeiters cannot fake brands as labels auto-acquire per-piece unique credential at time-of-application and there is no encoding at time-of-manufacturing. It cannot be false scanned once decoupled from package and if re-applied on same package DNA is auto-changed indicating tampering.





#### SNAPTRUDE

# Snaptrude Technologies Private Limited

URL: www.snaptrude.com

Sector: IT/ITES

#### Project Title: Snaptrude

Snaptrude is an intelligent CAD (Computer Aided Design) software for real estate which transforms a hand drawn sketch or a floorplan image to intelligent 3D BIM model in seconds. It comes from the data centric decision making approach adapted for the 3D modeling architecture, which makes it easier to judge if the structure can be realized and compliance and constraint mapping can be achieved for the 3D design. With the intelligent BIM approach it is also possible to develop automated space planning to provide interior designing within seconds.

# **TagBox Solutions Private Limited**

URL: www.tagbox.in **Sector: IT/ITES** 



# Project Title: TagBox is enabling organizations make their cold chains more reliable

TagBox enables its customers to make their cold chains reliable. Tag360 sensors monitor core cold chain parameters like temperature and humidity, door activity, power and vehicle location. Clients can track cold chain health and identify the root causes of cold chain failures. The suite of reporting and analytics modules enables holistic record-keeping for all compliance requirements. The automation solutions remove redundant tasks (like manual temperature control) and augment the role of facility and fleet personnel.





# Text Mercato Solutions Pvt. Ltd.

URL: www.textmercato.com

Sector: IT/ITES

#### Project Title: Tech Platform for Content Creation

Getting quality content is expensive and time consuming. Textmercato's has developed one of its kind, B2B content platform for software based evaluation of content quality. Auto product description writing software is being created and Auto content creation management software that will have inbuilt AI will be developed.

#### Touchetech Labs Pvt. Ltd.

URL: www.touchetech.com

Sector: IT/ITES



### Project Title: Touché Refreshable Braille Computer

Touché is a device which is a computer for the blind. It can ensure literacy/education for the blind by generating a braille output from any textual input and vice versa so the blind can read/write any books that were previously unavailable/high cost of printing braille. This puts the visually impaired on par with the sighted, in fields of education, professional work environment and increases productivity for those employed in corporate sectors. While corporations and governments guarantee employment to the visually impaired, this device improves productivity and the quality of life for visually impaired.





# Trans Neuron Technologies Pvt. Ltd.

URL: www.transneuron.com

Sector: IT/ITES

### Project Title: Manage, Run, Monitor, Analyze and Predict the Skills Ecosystem

Transneuron has developed one of the first Skills Ecosystem platforms which connects all the entities like Youth, Government, Training Organizations and Hiring Companies and helps in managing, running, monitoring, analyzing and predicting results. The platform uses Artificial Intelligence and Deep Machine Learning through Chatbot, Career and Learning Paths to guide Youth is selecting right training, training center and job or livelihood opportunity.

#### **Trashcon**

URL:www.trashconwastemana gement.com

Sector: IT/ITES



### Project Title: Automated Municipal Solid Waste (MSW) Segregator

Trashcon has developed a Waste Segregator that segregates Municipal Solid Waste (MSW) into Biodegradable and Non-biodegradable components by employing mechanical operations. The fabricated segregator can handle MSW in a batch of capacity 50 kgs. and takes 5 minutes to process depending upon the size and composition of waste. A segregation resulting in 85-98% recovery of biodegradables has been achieved using the segregator. The segregator runs on a motor that can power the various unit operations.





#### Urban Bikes Pvt Ltd.

URL: www.yulu.bike
Sector: IT/ITES

# Project Title: Dock-less GPS powered Public Bicycle Sharing to solve traffic problem

Urban Bikes is developing a highly scalable bicycle sharing platform where one can rent a bicycle using mobile app and return it by parking anywhere under the sun. The bicycles are powered with GPS and GPRS technology that allows tracking of the bicycles 24x7. It doesn't require any docking station, so the cost of deployment is very low. The locks are powered by solar energy to make them self-sustainable. We will use advance analytics to manage demand and supply of bikes assisted by an on-ground operation fleet.

# Vaultedge Software Pvt. Ltd.

URL: www.vaultedge.com **Sector: IT/ITES** 



#### using artificial intelligence

Contract Analysis today is manual, expensive, error-prone and impacts morale. Vaultedge uses artificial intelligence and machine learning to understand Contracts the way a lawyer does and automates contract analysis. With VAULTEDGE, one can upload a contract and see the extracted information in seconds. This is achieved by training Vaultedge over 1000s of contracts to accurately identify more than 120 clauses and data points. Using Vaultedge, companies can save 70% of time spent in reviewing contracts.





### VideoKen Software Pvt. Ltd.

URL: https://videoken.com/

Sector: IT/ITES

#### Project Title: VideoKen: A collaborative video based social learning platform

Videos are powerful and pervasive, but hard to peer inside, navigate and personalize. VideoKen's unique video indexing technology is built on a foundation of cutting edge research involving big data analytics, machine learning and Al. It provides unique video content indexing, search, navigation, summarization and curation capabilities.

# WeTrunk IT Solutions Pvt. Ltd.

URL: www. sampletrunk.com

Sector: IT/ITES



Project Title: SampleTrunk - A

#### Business 2 Business App for Catalog & Pricing for Small Business

SampleTrunk is Cloud based B2B catalog, pricing and exclusive business chat app for manufacturers, wholesalers and retailers to order and communicate effectively. In a typical B2B type of trade there is a different pricing scheme for different clients based on their buying capacity / payment terms, etc. This unique mechanism automates the process and allows customers to view the pricing order at all times. SampleTrunk is also enabled with easy GST features required by the business.



Bio Technology (BT)





#### Atrimed Bio-Tech LLP

URL: www.atrimedbiotech.com

Sector: BT

#### Project Title: Validation of plant based lead molecules for psoriasis

Psoriasis is a common, chronic, skin disease, with no clear cause or cure. It has varied symptoms, triggers and co-morbidities, including arthritis, cardiovascular diseases, metabolic syndrome, inflammatory bowel disease and clinical depression. Psoriasis is thus a genetic, autoimmune, inflammatory disorder. It shares features with other conditions like rheumatoid arthritis and multiple sclerosis. The project aims to identify novel molecules that can inhibit this production of molecules that enables effective disease treatment.

# Bio-Lutions Eco Tech India Private Limited



URL: www.bio-lutions.com

Sector: BT

# Project Title: Chemical free, biodegradable, and affordable packaging solutions and disposable tableware made from agricultural residue

The innovation is a patented mechanical process through which agricultural residual fibers are converted into self-binding Micro and Nano Fibrillated Natural Fibers using only water. The process does not use any chemical additives or involve the energy-intensive process of cellulose extraction. This way, chemical contamination and excessive use of water, both common to cellulose production are avoided.





### Cardiac Design Labs Pvt. Ltd.

URL: www.cardiacdesignlabs.com

Sector: BT

#### Project Title: Mobile Intelligent Remote Cardiac Monitor (MIRCaM)

PMIRCaM provides real-time analysis in ambulatory ECG mode for episodes as they occur and an automatic workflow is created on the cloud for reporting and expert alerting when a real patient is found. This creates a new possibility for enabling advanced diagnosis in smaller settings and avoiding the need for Cardiologists to see all data being generated. It also improves the feed of real patients to the larger hospitals for treatment thus enhancing the system as a whole. The device will help in early detection thus reduces financial burden on the Patients and enable early management of the disease.

### Denovo Biolabs Pvt. Ltd.



URL: www.denovobiolabs.com

Sector: BT

# Project Title: A Smart Phone Based Point of Care Diagnostics for Thyroid Profiling

A novel platform for commercial use is being developed for diagnosis in multiplexing the thyroid profiling. A lateral flow point of care diagnostic assay, integrated with smart phone application is capable of quantifying thyroid hormones specifically TSH, T4 and T3 in real time and multiplexing for free TSH, T3 and T4 test will happen in a single set with Smart phone based quantification to deliver the test result in real time.





# DiponEd Bio Pvt Ltd

URL: www.diponed.com

Sector: BT

# Project Title: Merisis MS6a Novel Stem Cell Biologics Platform Technology; for Organ Transplants and Graft Versus Host Diseases (GVHD)

Merisis MS6 is a Novel Adult stem cells (mesenchymal) technology platform with unique immunomodulatory properties, that can be used to reduce the expenses and drug over loads of immunosuppressant required for patients undergoing unmatched organ transplants GVHDs, bone marrow transplants GVDHs and high dose chemo - bone marrow rescue in cancer patients.

### **Iosynth Labs Pvt. Ltd.**

URL: www.iosynth.com

Sector: BT



#### Project Title: Sustainable multi-enzyme bio catalysis using racemases

losynth is a biocatalysis service company to the Indian pharma, agro and fine chemical industry primarily working on commercially available enzymes. The Startup aims to Increase the adoption/penetration of sustainable biocatalytic processes by developing novel enzymes (racemases) to increase yield of desired isomers when using current commercial hydrolases on racemic substrates in a simple, cost-effective, one-step process.





#### Lab4life Bioresearch Pvt. Ltd.

URL: www.lab4lifebioresearch.com

Sector: BT

#### Project Title: BacFind for Brucellosis Diagnosis

BacFind, a low cost device for point of care diagnostics is developed with the approach that combines innovative components and subsystems to provide advanced molecular tools at the point of care, specifically with the following criteria: Sample preparation - isolation of bacteria from unprocessed large volume whole blood using microfluidics. Integration of novel heater concept in plastic foils for DNA isothermal amplification, fabricated using novel roll-to-roll fabrication method. A colorimetric detection of amplified nucleic acid will be developed.

# NoPo Nanotechnologies India Private Limited

URL: www.nopo.in **Sector: BT** 



#### Project Title: NoPo HiPCO Carbon Nanotubes

NoPo has developed Carbon Nanotubes which have numerous proven applications such as water filters capable of working with sewage or sea water for one step purification, solar cells that are 3x more efficient, light weight composites for automobiles, high conductivity wires that enable electric propulsion of aircraft and next generation electronics that are 10-1000x faster than current devices. These have been demonstrated in laboratories but none of these have been able to reach consumers due to a lack of reliable, repeatable supply of Nanotubes. NoPo HiPCO Process, world's only continuous process for producing high purity Carbon Nanotubes is a technology marvel capable of operating under extreme conditions





### **String Bio Pvt Ltd.**

#### Project Title: Sustainable, novel and wholesome protein from a novel source

String Bio leverages methane as a source of carbon to manufacture green chemicals and feed ingredients. The products address multi-billion dollar markets. The proprietary platform (SIMP- String Integrated Methane Platform) leverages advances in synthetic biology, fermentation technology, chemistry and process engineering. String Pro is a safe and sustainable protein made from methane. The novelty in the work lies in addressing rising food and environment challenges by leveraging newer carbon sources using advances in biotechnology.

# Vipragen Biosciences Pvt. Ltd.

URL: www.vipragen.com

Sector: BT



### Project Title: Alternate to Animal testing using 3D cell culture based models.

The Biopolymer technology available with Vipragen allows the polymer to be casted into plain sheets for 2D cultures and porous scaffold for 3D cultures, tubes for growing blood vessels etc. Chemically this polymer can be modified specifically suited for growing epithelial cells, fibroblasts, nerve, bone, cartilage cells etc. The 3D polymer scaffold will be used for developing 3D cell culture based toxicity models for screening libraries during drug development.



### **VNIR Biotechnologies Pvt Ltd.**

URL: http://www.vnir.life

Sector: BT

# Project Title: Fluorescence technologies for timely point-of-care diagnosis of deadly cattle fevers

Cattle suffer from fevers like theileria, babesia, and can die with a 100% chance in 5 to 15 days. Wrong medicine decreases milk yield, contaminates milk, and increases the chance of death. Rapid point-of-care blood tests reduce the turn-around time from 2 days to 20 minutes, for all livestock globally. VNIR Biotechnologies Pvt. Ltd will use its expertise in chemistry, nano-biotechnology and fluorescence to develop point-of-care devices for rapid blood analysis in cattle. Specific, sensitive, cheap, rapid diagnostics for all livestock globally is the target. Where expert opinion is required, the technologies will be supplemented by a telemedicine platform.

# Vphore Labs Private Limited

**VPHORE LABS** 

URL: www.vphore.com

Sector: BT

#### Project Title: 3D Endoscopes for Minimally Invasive Surgeries

Minimally invasive surgeries are a growing trend where a critical component is endoscopes. Today these endoscopes are 100% imported. A technology for high quality miniature 3D-endoscopes is being developed by Vphore. These endoscopes will compete with best in class at fractional cost, be it the resolution, color-fidelity, safety or durability. These 3D endoscopes will be completely Made in India and will be based on Vphore's market proven capability of medical image processing platform.



# Electronic System Design & Manufacturing (ESDM)



# Afterglow Tech (OPC) Private Limited



URL: www.afterglowtech.com

Sector: ESDM

### Project Title: Smart Street Lighting

Afterglow's Stark makes streetlights smarter, more efficient and longer lasting by leveraging the power of Internet of Things to remotely control, monitor and maintain streetlights enabling streetlights to act as gateways for building smart infrastructure for smarter cities.



# AptEner Mechatronics Private Limited

URL: www.aptener.com

Sector: ESDM

#### Project Title: Smart Motorcycle Helmet with Cooling

BluArmor, the smart AC Helmet is a full face helmet that is compliant with ISI/DOT/ECE standards. The key features of the helmet are 6-15% reduction in temperature inside helmet, access to mobile services with a completely hands-free experience, noise free conversation with the pillion, sos messaging in dark spots, crash detection, location sharing etc.



#### **Intellicar Telematics Pvt Ltd**

URL www.intellicar.in
Sector: ESDM



# Project Title: IOT- Vehicle Telematics with big data For the Automobiles

Intellicar is making Fleet Management easier with best in class solutions developed by automotive engineers, cartography experts and data scientists. The GPS tracking solutions can track your vehicles & drivers to track vehicles & drivers to ensure safety at all times..



# Graphene Nano Innovations Pvt. Ltd.

URL: www.nanosmiths.in

Sector: ESDM

#### Project Title: Graphene, Nano Material Based Products

Graphene Nano Innovations Pvt. Ltd. is an end-to- end startup with graphene production, B2C based graphene end-products and solution.

NanoSmiths provides an array of product and services dealing in Nanotechnology, specializing in the reselling of Graphene and Carbon Nanotubes claiming the ourselves to be the cheapest resellers of Graphene in the world-



### **JK Nanosolutions**

URL www.jknanosolutions.com

Sector: ESDM



# Project Title: Nanotechnology based Rapid, Low-Cost Waste Water and Effluent Treatment

Nanosolutions uses Nanotechnology involved for development of indigenous, low-cost, high performance nanoclusters for wastewater and effluent treatment.

Hybrid nanoclusters disinfect microorganisms and remove excess salts, chlorides, fluorides, heavy metals and dyes from the effluent. The patented nanosynthesis procedure is an ecofriendly technique and scalable.



# Meladath Auto Components Private Limited

URL: www.meladathauto.com

Sector: ESDM

# Project Title: Frugal Innovative High Value Automotive Solutions at Affordable Cost

Meladath Auto Components (MAC) has designed and Developed Indigenous Innovative Compact One Way Clutch product which is Patent Filed. MAC has the capability of in-house design, validation and Manufacturing.



# Nymble Labs

URL www.nymble.in
Sector: ESDM



#### Project Title: Julia, Personal Robotic Cook - Smart Curry Making Machine

Julia can cook most one-pot meals from start to finish - including Indian Sabzis, Asian Curries, Pastas, Noodles and Stir Fries. All one needs to do is choose a recipe from the App, feed in the necessary ingredients, and press cook while Julia cooks your favourite meals. Equipped with a battery of sensors, it gives consistent results every time. Recipe Programs for new dishes are pushed over the air by in-house chefs every week, and can be personalized to suit one's taste, as the appliance gradually learns one's taste preferences.



# Personal Air Quality Systems Pvt Ltd

URL: www.paqs.biz

#### Project Title: PAQS IOT Solutions- Environment Platform

Air Pollution consumes over 1.5 mn lives in India and is a growing menace. PAQS has created a technology platform to provide an end-to-end IoT solution in this domain. PAQS sensors can be deployed Stationary or Mobile (on Vehicles). The sensed data is curated to derive required metrics, enables analytics and actionable insights.



### Thinkerbell Labs Pvt Ltd

URL: projectmudra.com

Sector: ESDM



#### Project Title: Project Mudra

Project Mudra's flagship product Annie, addresses the pain point of low braille literacy among the visually impaired by helping them learn how to read, write and type in Braille. Annie can be used directly by the CYP (children and young people with Visual Impairment) to self-learn Braille and be monitored by the teachers or parents. The technology will enable self-learning which is completely missing in today's methods, introduce collective and competitive learning, provide access to various braille based content and bring in easy tracking of progress.



# QuNu Labs Pvt. Ltd.

URL: NA

Sector: ESDM

# Project Title: Quantum Cryptographic Security Solutions

QuNu Labs is the one of the first Indian companies to develop Quantum cyber-security products using Quantum Key Distribution (QKD) Technology. QKD solves the problem of secure key distribution by allowing the exchange of a cryptographic key between two remote parties through an exchange of encoded quantum bits (qubits), which are un-hackable, by virtue of the laws of quantum physics. The innovation lies in the implementation of the concept.



#### R2 PRO Pvt. Ltd.

URL: www.r2promise.com

Sector: ESDM



#### Project Title: R2 PROMISE SMART BIN

R2 Promise Smart Bin envisions aiming to increase waste segregation and collection efficiency, passes the value of recycling the waste to the customer. This is done by compacting and monitoring the waste at the source. It also reduces the cost, manpower & real estate required for waste management. The cost reduction is passed on to producers as monitory benefits or at least free service. R2 Pro's Smart, Automatic & Safe Bin compacts any waste to 20% of original size and also communicates in real time with our Bin Management Software.



# RDL Technologies Pvt Ltd

URL: www.researchdesignlab.com

Sector: ESDM

### Project Title: VLIR COB integrated with Industry IOT 4.0 Smart Device

Research Design Lab (RDL) is an Embedded Systems Design house having expertise in Product Design, Reverse Engineering & Manufacturing Services. VLIR COB developed by RDL is a multi-utility compact module which enables data transmission over visible light. It can be integrated with Industry IOT 4.0 smart devices thus enabling factories to transform into smart/intelligent factories and bringing in flexibility in production & optimization of resources.



# SkyKrafts Aerospace Pvt Ltd

URL: www.skykrafts.com

Sector: ESDM



#### Project Title: Drones and IoTs for Agriculture

Drones & IoTs are poised to change the way crops are cultivated by using a combination of emerging technologies to tackle challenges in agricultural. It uses big data from environmental sensors along with drone images to detect as well as predict stress, onset of disease or infestations in crops. The system also automates the cycle by spraying chemicals only where it is required. The solution is built using four emerging technologies, 1) Spraying Drones, 2) Network of agricultural sensors, 3) Multispectral imaging drones, 4) A self-learning analytics and AI platform which detects and predicts events of interest.



# Spookfish Innovations Private Limited

URL: www.spookfish.in

Sector: ESDM

### Project Title: Multi-spectral Imaging for Quality Inspection

Spookfish's Quality inspection machines are deployed on manufacturing lines across India, use machine vision and artificial intelligence to inspect quality of products automatically. The machine vision systems goes beyond the visible spectrum and analyze products under multiple spectra of light to bring out more detail, which takes quality inspection to a new level in the whole world. These machines also work at extremely high speeds and accuracies - for instance, currency coin blanks at Jindal Stainless are inspected for correction dimensions to an accuracy of 30 microns, at a speed of 50 coins per second.



# Str8bat Sport Tech Solutions Pvt. Ltd.

URL: www.str8bat.com

Sector: ESDM



# Project Title: Gives instant, visual & actionable insight, helping sports players play better

Str8bat is developing a technology that helps improve one's game, is affordable and accessible to all. It gives INSTANT, VISUAL and ACTIONABLE insights into one's game by using 9DoF (Degree of Freedom) motion sensors, time synchronization between sensor modules and proprietary algorithms that understand the physics behind sports to provides the insights that naked eye cannot capture. This can also track performance and helps players know the improvement they have been able to make.



# TenXer Technologies Pvt Limited

URL: www.tenxertech.com

Sector: ESDM

#### Project Title: Rapid Application Development Platform

TenXer is enabling implementation of very innovative ideas as part of Dynamic Priority Assignment: The user can conditionally assign a priority for task / thread at the User Interface level which could be executed on priority at Linux Kernel level, despite being on general purpose Linux OS. Rapid Application Development: It is a common practice to write code to create any electronic application. Giving flexibility to the user to create the application without having to write code wither for an UI or for backend functions is quite challenging. This needs extensive software development at the back-end.



### Wellth Solutions Pvt. Ltd.

URL: www.wellth.in
Sector: ESDM



### Project Title: Autonomous Preventive Health Impact Platform

Wellth Solution's integrated IoT platform makes self-driven health improvement convenient, habitual and rewarding through cognitive health screening platform and cloud based interactivity. 'ATM for Health' is the only product that has body vital measurements calibrated for Indian population and comes organically designed and is clinically validated. Also, incorporates latest Systems Biology research, using which, the platform can make accurate forecasts on the wellness status of an individual. The Bangalore-designed-engineered platform can also evaluate all the lifestyle risks for a user and ushers in the concept of a quality health experience at a non-clinical site.



