



विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

सत्यमेव जयते



DST NIDHI
START-UP & SCALUP SUPPORT

Impactful Women-Led Startups

Empowered by DST



Compendium of 50 Impactful Startups

2024



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DST NIDHI
START-UP SCIENCE & CAPTAIN SUPPORT

50 Impactful Women-Led Startups Empowered by DST

Published by

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50 Impactful Women-Led Startups Under NIDHI Program

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Design & Printing: Foundation for Innovation and Technology Transfer IIT Delhi., Email: contact@fitt-iitd.in

ISBN: 978-81-7480-390-0

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डॉ० जितेन्द्र सिंह

राज्य मंत्री (स्वतंत्र प्रभार),
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Dr. JITENDRA SINGH

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Minister of State in the Ministry of Personnel,
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Minister of State in the Department of Atomic Energy; and
Minister of State in the Department of Space
Government of India



Message

The Indian startup ecosystem is playing a pivotal role in driving the nation's progress, fostering innovation, economic growth, and societal advancement. Women entrepreneurs have significantly contributed to this growth with their presence, leading to substantial business and economic development of the country.

The Department of Science and Technology (DST) through its various initiatives under National Initiative for Developing and Harnessing Innovations (NIDHI) has been crucial in positioning India as a global innovation leader. Through a wide network of more than 180 incubation centres established by DST across the country, women innovators are being supported in their journey to build tech-based successful startups. These women entrepreneurs are making a profound contribution to the country's overall development.

I am delighted to recognize the outstanding efforts and remarkable achievements of the team at DST in bringing out the compendium of '50 Impactful Women-led Startups supported by DST'. I expect that this compendium motivates women innovators and entrepreneurs to go for a successful startup journey. I believe that women entrepreneurs will contribute significantly in shaping the future of the country and accelerate its growth towards "Viksit Bharat 2047".

(Dr. Jitendra Singh)

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विज्ञान एवं प्रौद्योगिकी विभाग
Secretary
Government of India
Ministry of Science and Technology
Department of Science and Technology

30th August, 2024



FOREWORD

The Department of Science and Technology (DST) has played a crucial role in supporting the development of early-stage startups through progressive programs and the creation of essential infrastructure. Its efforts in fostering and nurturing the emerging startup ecosystem, driven by a robust network of incubators, are commendable in both effort and impact. Through various programs of DST, women innovators are provided support in their journey to form successful tech-based startups, which are playing a crucial role in overall development of the country.

DST's initiatives have played a vital role in fostering entrepreneurial growth across diverse sectors. National Initiative for Developing and Harnessing Innovations (NIDHI) has been instrumental in creating an enabling environment for thousands of startups across the country. Through a wide network of DST supported incubators, women innovators are provided support in terms of mentoring, physical workspace, research equipment, access to finance, IP & legal support, market access etc. Through other programs of DST, including NIDHI-EiR, NIDHI-PRAYAS and NIDHI-Seed Support, essential financial support is provided to women innovators for converting their innovations into successful ventures.

I extend my best wishes to the Technology Translation and Innovation (TTI) team of DST in putting up sincere efforts in bringing out the compendium of '50 Impactful Women Entrepreneurs supported by DST'.

(Abhay Karandikar)

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COWBIT TECHNOLOGIES

(cowbit.in)



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Startup Summary

Cowbit - Smartwatches for cattle using IOT ML/AI

Problem Statement

Cowbit is developing a line of connected products and solutions to optimize the health of the cattle for farmers welfare. This includes facilitating the right kind of infrastructure and housing for cattle, tracking each individual animal's health and yield through a wearable device, measuring parameters such as heat cycle, mastitis, foot and mouth disease and monitoring health conditions.

Value Proportion

Cowbit Technologies offers a unique solution for digital cattle health management, combining IoT wearables with low-powered devices, rechargeable option ensuring seamless operation even in remote areas without internet access. Our technology provides real-time health monitoring, early disease detection, and actionable insights, enhancing cattle welfare and productivity. We empowers dairy farmers, and improve herd management, making it a valuable tool for the animal husbandry sector.

Impact Created

Cowbit Technologies addresses a critical need in India's dairy sector by improving cattle health management through IoT-based solutions. This technology supports the livelihoods of small and marginal farmers, enhances milk production efficiency, and reduces livestock mortality rates. It contributes to the nation's sustainability, supports rural economies, and aligns with national goals for digital agriculture and food security, ensuring long-term social and economic benefits for communities.

Product / Services





GEOCARTE RADAR TECHNOLOGY

(geocarte.in)



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Startup Summary

Non-destructive GPR survey solutions with Cutting-Edge In-house Data Analysis tool

Problem Statement

In today's rapidly expanding infrastructure landscape, maintaining and managing existing subsurface infrastructure is crucial. To address this important issue, GeoCarte offers sophisticated geo-exploratory services using advanced Ground Penetrating Radar (GPR) technology to map underground infrastructure without the need for excavation. This technology serves as a preventive measure to protect existing assets during the installation or construction of new infrastructure. It is applicable in various fields, including underground utility mapping, leakage detection, concrete scanning, archaeological investigations, and rock profiling and boulder mapping.

Value Proportion

GPR often struggles to visualize buried targets when signals are weak and obscured by noise, even with advanced data analysis tools. However, GeoCarte's proprietary S-Transform processing technology offers: 1. Effective results even in challenging conditions such as high salt content and wet clayey soils. 2. Improved image resolution compared to conventional methods. This leads to time and cost savings.

Impact Created

GeoCarte offers sophisticated geo-exploratory services using advanced Ground Penetrating Radar (GPR) technology to map underground infrastructure without the need for excavation.

Patents/ Trademarks

Research Paper Published:

- Title: GPR Data Analysis of Weak Signals Using Modified S-Transform (Geotech Geol Eng (2015) 33:1167-1182)
- Title: Archaeological studies at Dholavira using GPR (CURRENT SCIENCE, VOL. 114, NO. 4, 25 FEBRUARY 2018)

Product / Services





VAIDHYAMEGHA

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Startup Summary

BI-Migrator

Problem Statement

BI-Migrator addresses the complex challenge of migrating Business Intelligence (BI) reports and dashboards across different platforms, such as Tableau, Power BI, and Looker. It simplifies the migration process, reduces manual effort, and ensures data integrity during the transition.

Value Proposition

BI-Migrator automates BI report migrations across multiple platforms, offering significant time savings, reducing errors, and ensuring seamless transitions. Its ability to handle complex migrations with minimal manual intervention is unmatched in the industry.

Impact Created

BI-Migrator enables businesses to efficiently transition to newer BI tools, promoting digital transformation and operational efficiency. This contributes to a more data-driven decision-making process, critical for modern enterprises.

Product / Services



AURASSURE

(aurassure.com)



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Startup Summary

AI First Platform for Climate Resilience powered through the largest private climate data network

Problem Statement

Aurassure's AI-driven platform combats climate risks by providing hyperlocal, real-time insights on air quality, extreme weather, and floods. Our extensive sensor network across 150 Indian cities offers actionable data analytics for businesses, governments, and communities to build resilience and mitigate climate impacts.

Value Proportion

Aurassure offers hyperlocal climate insights with unmatched accuracy. Our street-level data, 10x more precise than traditional methods, empowers businesses to make informed decisions. For instance, a logistics company can optimize delivery routes by avoiding flood-prone areas, reducing delays and improving operational efficiency.

Impact Created

Aurassure's work is crucial for India's climate resilience. Our hyperlocal data helps mitigate flood and extreme weather impacts, safeguarding lives and property. By enabling efficient disaster response and urban planning, we contribute to sustainable development. Our platform empowers businesses and communities to adapt to climate change, fostering economic growth and social well-being.

Patents/ Trademarks

We have a design patent for our product 285396, and Trademark - 3153660

Product / Services



IMPACTREE DATA TECHNOLOGIES

(impactree.ai)



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Startup Summary

Prabhaav & Rubicr (two platforms)

Problem Statement

We are a data analytical platform company. We operate in the segment of sustainability and social impact as a sector. In these sectors our next generation technology platforms allows decision makers to collate, analyze and drive initiatives through a bottoms up approach to data process and management. We use the power of Gen AI with traditional analytical frameworks to unlock key metrics for organizations to track their sustainability outcomes.

Value Proportion

Operator decision-making is prioritised using a bottom-up approach. Data is collected from various sources to provide timely & relevant information for better decision-making. We own two platforms -

- i) Prabhaav - tracks social impact across geographies used by investors, corporations, not for profits & HNI organizations
- ii) Rubicr - Our sustainability process management platform that allows operators & decision-makers to track data on ESG indicators across plants and companies. Multiple mid cap clients

Impact Created

Our Platforms emphasize sustainability by aligning social impact metrics with economic and social goals, driving behavioral change, and improving decision-making for businesses and nonprofits. They have potential for government use in tracking sustainability ROI nationally

Patents/ Trademarks

Process of filing copyrights on our software platforms. Trademarked- Impactree and Prabhaav and process of trade mark for Rubicr. Our founder has patents in the process optimization sector of sustainability.

Product / Services





ARKASHINE INNOVATIONS

(arkashine-innovations.com)

Arka Shine
Innovation in agriculture



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Startup Summary

SOIL SAATHI

Problem Statement

SoilSaathi is a revolutionary AI-integrated product that delivers reliable, effortless, and accurate complete 16-parameter soil analysis directly on the farm. This portable device, designed like a backpack, allows the entire miniature testing lab to be easily transported to remote and challenging locations where traditional soil testing labs are inaccessible. We address the following problems for the Onsite Soil Test: The need for a Quick & Easy Test, the Need for Interpretable Results, Crop Recommendation, & Advisory.

Value Proportion

Includes physical, chemical and biological aspects of soil instantly. portability of product with no compromise on accuracy and performance. Interpretation of results carried out by device itself so the correlation of the soil nutrient deficiencies is automatically calculated and provided on finger tips of farmers. Easy to use and refill mechanism of testing. Completely automated and no skilled labour required. Increase in crop yield to farmers and wealth creation.

Impact Created

SoilSaathi is a revolutionary product with profound national and societal relevance for India. It addresses critical challenges such as soil degradation, water scarcity, food security, and climate change. By empowering farmers with precise soil health data, SoilSaathi promotes sustainable agricultural practices, enhances crop yields, and supports the economic well-being of India's farming community.

Patents/ Trademarks

IP: 7 patents filed and proceeding towards PCT filing.
2 patents were granted.
2 designs registered.
4 trademarks registered
2 trademarks approved

Product / Services



KOEL FRESH

(koelfresh.in)



Koel Fresh



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FTBI
innovate • incubate • accelerate

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Startup Summary

Cold Room Ecosystem Drivers

Problem Statement

Koel Fresh addresses India's crop wastage issue, where 35% of produce (40 million tons) is lost annually due to inadequate refrigeration and market access. In Odisha's Sundargarh district, challenges include limited decentralized storage, poor grid access, high costs, and unsustainable operating models. This leads to distressed selling by smallholding farmers and vendors, especially vulnerable women, increased food waste, and greenhouse gas emissions. Many cold storages are non-operational or underutilized. Local women's SHGs lack sustainable business opportunities due to limited technology, training, and market access.

Value Proposition

We provide cold room ecosystem development services which includes eco-friendly, IoT-enabled, solar-powered cold storage for smallholding farmers and small vendors. It extends shelf life, reduces food waste, and prevents distress sales. Digital tools integration ensures efficient operations. Operated by women's SHGs and FPOs, it enhances livelihoods through better market access and profitability. This scalable solution adapts to climate change with low-carbon technologies.

Impact Created

It addresses food security by reducing post-harvest losses, a critical issue in India, where millions of tons of produce are wasted annually. It empowers women through employment in cold room operations, contributing to gender equality. It also promotes clean energy by utilizing solar power, aligning with India's renewable energy goals. By supporting small-scale farmers and vendors, it fosters rural development and economic stability.

Product / Services





BIOTEZ AGRINOVATION

(biotezagrinnovation.com)



BIOTEZ
AGRINOVATION



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Startup Summary

Proprietary formulation on Rourkela dairy and steel industry waste using macro-algae bio-refinery and natural booster to enhance soil fertility and crop yield

Problem Statement

The imminent need to solve global challenges induced by climate change and environment pollution can be aided by the application of renewable biomass and industrial waste to produce bio-fertilizer and other value added products. The present proposal on utilization of this slag waste and macro algae biomass for the production of natural manure can be used as an alternative to harmful chemical fertilizer in agriculture and at the same time to save the steel and dairy industry from the headache of slag and waste water treatment.

Value Proportion

These products are High in mineral and protein content. Increase crop yield (15-20%) and plant growth (20-30%). Work as a soil conditioner and preserve soil burning. Increase soil fertility and microbial activity (for acidic and neutral soil). Provide required vital macro and micro nutrients to the plants and improve soil texture.

Impact Created

A huge quantity of steel and food industry and natural agricultural waste is dumped as waste product in all over the India; hence its proper utilization is very important not only from economic point of view but also environmental aspects. Therefore, we are utilizing the waste for the production of value-added products. The present proposal on utilization of slag waste and macro algae biomass for the production of manure can be used as an alternative to harmful chemical fertilizer.

Patents/ Trademarks

2 patent (application no: 202231041641, 202231035419) and 1 trademark filed

Product / Services



EMBEDSENSE SOLUTIONS

(embedsense.com)



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Startup Summary

Industrial IOT Sensor Hardware and Software Products

Problem Statement

Indian manufacturers are under pressure to deliver high quality products in lesser time & at lower cost than ever before due to increased globalization. Our offerings enable them be more competitive & profitable by helping them embrace smart manufacturing techniques at affordable prices. With our innovative software/hardware products our customers benefit by getting more visibility into their processes, better quality control, lower machine downtimes & timely data-driven decision-making ability

Value Proportion

Because of our unique purpose-built hardware, we can digitalize entire plants & machines, including legacy systems. We offer a comprehensive solution for all machine types irrespective of age/make/capacity. We provide custom hardware solutions, implement automation and bespoke solutions & can bridge the gap with ERP systems. We have the expertise in high voltage, high temp & heavy machineries too. All the above attributes make us a one-stop shop for every machine I4.0 need.

Impact Created

(1) Lowering of environmental impact due to lower energy consumption, operation at better efficiency levels, less wastage and improved quality (fewer rejects) all leading up to lower overall product carbon footprint (2) Indian manufacturers made more competitive with quality monitoring solutions, machine downtime reduction solutions and energy efficiency monitoring solutions (3) Financial gains for Indian manufacturers with Productivity monitoring solution bringing ROI within 6 months

Patents/ Trademarks

Embedsense holds 1 patent as of now. Two of them are under process and another is being drafted. A strong pipeline for IP protection exists as all their hardware products are conceived based on unique problem statements from various shop floors that do not have any precedence/prior-art to them

Product / Services

EMBEDSENSE SENSOR HARDWARE PORTFOLIO			
MECHANICAL HEALTH MONITORING SENSORS SENSE 3-AXIS VIBRATION & TEMPERATURE 		ELECTRICAL HEALTH MONITORING SENSE 25 ELECTRICAL PARAMETERS 	
AIR QUALITY AND GAS MONITORING SENSE TEMPERATURE, HUMIDITY, ATM, PARTICULATE, PH, AQI & VARIOUS GASES 		MATERIAL HANDLING SYSTEMS SENSE AND TRACKING 3-D MONITOR, EDGE LIFE, HOIST USAGE 	
RHEOLOGY MONITORING SENSE TEMPERATURE, RHEOLOGY, STABILITY, MONITOR, PRODUCTION, TOOL LIFE, PART QUALITY, ASSET INTEGRITY 		PROCESS AUTOMATION SYSTEMS MONITOR, PRODUCTIVITY, CONTROL, AUTO-SORTERS, SWITCHEM 	

INTIGNUS BIOTECH

(intignusbiotech.com)



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STARTUP
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Startup Summary

PEscreen (Preeclampsia Screening Test)

Problem Statement

Preeclampsia is a hypertensive disorder and a leading cause of maternal and perinatal mortality. Preeclampsia affects about 2–8% of all pregnancies. This condition manifests symptomatically and can be diagnosed only after 20 weeks of gestation. High blood pressure, proteinuria, and vital organ damage are common symptoms. The issues in current preeclampsia health management are majorly centred around two factors

- Limitations for the healthcare providers
- Lack of screening tools

Value Proportion

PEscreen is a screening test which can predict preeclampsia development in the upcoming weeks of gestation based on circulating levels of a biomarker. This test is to be performed when the women visit their gynaecologist during the routine check-ups. It is:

- Low cost (< Rs 1000 /test)
- Rapid (<15 min)
- Early detection (even before 13 weeks of pregnancy)
- Point-of-care, usable in low resource settings and be operated by an unskilled person
- Can enable surveillance and monitoring of high-risk pregnancies

Impact Created

Benefits women (economically weaker sections and residing in rural India) and doctors, Healthcare Workers, and ASHA workers. The use of PEscreen will reduce preeclampsia-associated maternal deaths, prevent preterm births and improve patient management, leading to better outcomes.

Patents/ Trademarks

Indian Patent Granted (#435647), Indian Patent Applied (#202321082680)

Product / Services





FIB-SOL LIFE TECHNOLOGIES

(fibsol.com)



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Startup Summary

Polymeric gel-based Agrobiological Composition

Problem Statement

Declining soil quality and decreased nutrient absorption from soil have warranted using soil microbes to restore soil quality. However, the stability of soil microbes and the identification of a suitable carrier to deliver them post-production is a significant issue. FIB-SOL currently provides a high payload of stabilized biofertilizers (Agriculturally important bacteria) through a super-efficient delivery System.

Value Proportion

Naturally stabilized microbial formulations based on an innovative encapsulation technology. The technology confers a highly compact (1000 X) and efficient way to deliver soil bacteria that provide macro and micronutrients and increase the availability of other nutrients.

Impact Created

Societal Impact- As lightweight products, it becomes very easy to transport the product. The product for an acre can be carried by the farmer in his shirt pocket, instead of big bags. Fertilizers of such low volume will definitely bring a social revolution in the way Agri inputs are showcased and marketed. He saves input cost. Soil is rejuvenated. Carbon foot printing reduced.

Patents/ Trademarks

Patent No-421141, Polymeric gel-based Agrobiological Composition (Granted).

Product / Services



KBCOLS SCIENCES

(kbcollsciences.com)



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Startup Summary

Microbial Bio-Colorants

Problem Statement

Until the 19th century, all colours came from natural sources; however, in the last 150 years, synthetic colours have eliminated the use of natural colours. Today, almost 1.3 million tonnes of dyes valued at \$23 billion are manufactured synthetically. The prolonged use of these synthetic colours (derived from petroleum) has led to many ecological and economic challenges.

Value Proportion

KBCols Sciences derives all its products from low-carbon footprint fermentation technology. KBCols brings these natural colours to life through its unique technology, thus offering a cost-effective, eco-friendly dyeing solution to take to the customer. The final products in ready-to-use form show high exhaustion rates (>90%), high water saving (1/3rd) and lower batch process time (up to 50% reduction) with considerably improved discharge quality of effluent.

Impact Created

The applications of present innovation can not only solve some of the pressing needs of society (replacing synthetic colors) but also give sustainable processes for the production of colors. The synthesis of chemical colors and their use in textiles can lead to their release in water bodies and hence into people's home and cause serious health concerns. So with dyeing of each T-shirt using microbial colors, we can reduce upto 400gm of chemicals used and 47kg of CO2 emitted into the environment.

Patents/ Trademarks

KBCols Sciences has recently go trademark registered for the company name and its logo (Application number 6355034). The trademark application is important for the company as it begins its manufacturing plant and starts with export of bio-colors to Europe, US & South East Asia.

Product / Services



ASHVA WEARABLE TECHNOLOGIES

(ashvaweartech.com)



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Startup Summary

Fitknees - an A.I. Wearable Sensor system for knee joint assessment

Problem Statement

1 in 4 adults suffer from knee pain, and every year, 3 lakh knee replacement surgeries are done in India as a consequence of severe physical disability caused due to knee pain. Traditional diagnostic tools like X-rays and MRIs primarily focus on identifying structural damage in joints and muscles but often fall short in assessing the underlying functional impairments that contribute to chronic pain and mobility issues. Moreover, conventional methods for evaluating joint function and muscle strength are subjective, time-consuming, and require expensive, bulky equipment, limiting their accessibility in many healthcare settings.

Value Proportion

Traditional X-rays and MRIs often miss functional impairments that contribute to chronic pain and mobility issues. Our wearable AI sensors, Fitknees and Fitmust, provide precise, real-time analysis of joint movement and muscle strength.

UVP: Precise, Portable, Affordable, Seamless.

Impact Created

- 15 million adults in India are clinically diagnosed with osteoarthritis annually, with 300,000 knee replacement surgeries performed each year. The average annual medication cost per patient is ₹20,000, contributing to significant economic losses. In 2017, India cut knee joint implant prices by 70% to improve accessibility. Osteoarthritis is identified as a "silent epidemic" by the 2021 WHO report, with urgent needs for advanced technologies for early-stage management and progression monitoring

Patents/ Trademarks

Bio-signal acquisition and feedback (Globally patented) - US20220409125A1, GB2605060B, CA3162185A1, WO2021100062A1, 6 trademarks and 2 design patents patent pending

Product / Services





AEGION

(aegion.co.in)



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Startup Summary

Aegion N Alloy

Problem Statement

India's burgeoning industrial sector, including energy, aerospace, and defense, faces significant challenges due to the premature failure of critical mechanical components caused by metal degradation and overheating. This results in substantial economic losses, safety risks, and environmental concerns.

Aegion's advanced alloys are engineered to optimize the performance and reliability of mechanical systems in demanding industries. Our materials mitigate risks associated with equipment failure, including unplanned shutdowns, by preventing metal degradation and overheating in critical components like nuclear reactors, missile burners, and aerospace engines.

Value Proportion

Aegion's proprietary material composites deliver unparalleled protection and performance for critical components in defense, nuclear, and space applications. Our advanced alloys, fortified with Atomic Layer Deposition (ALD) coatings, extend equipment life by up to four times compared to traditional materials. This overcomes the limitations of expensive composites by offering better malleability, ductility, and resistance in extreme temperatures, corrosion, and chemical degradation.

Impact Created

Aegion has secured INR 1.02 Crore in revenue this fiscal year, building on INR 35 Lacs from the previous year. Key clients include BHEL, CSL, ADE, and the Indian Air Force. The company has also gained access to a state-of-the-art R&D facility in the UK for advanced product development.

Patents/ Trademarks

Aegion N alloy
Aegion X alloy
Polycrystalline EBCVD Titanium Aluminide

Product / Services





NANOSAFE SOLUTIONS

(nanosafesolutions.com)



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Startup Summary

Active copper technology for (1) Antimicrobial protection (2) Copper fortification and (3) Preservatives replacement

Problem Statement

Nanosafe Solutions addresses the growing concern over microbial contamination in water storage, textiles, and other critical materials. Existing antimicrobial solutions, such as silver-based technologies, pose toxicity risks and are less effective in the long term. Our active copper technology offers a safe, non-toxic alternative that effectively neutralizes bacteria, viruses, fungi, and algae, providing a comprehensive solution to contamination challenges. It is uniquely positioned to give 4-in-1 protection from bacteria, viruses, fungi, and algae, which can be developed as (1) leaching and (2) non-leaching technology.

Value Proportion

- World's first active copper technology combining traditional Indian practice with modern nanotechnology.
- 4-in-1 antimicrobial effect: antibacterial, antiviral, antifungal, and anti-algal.
- Proven effectiveness in rigorous third-party testing with 99.9% activity according to ASTM, ISO, and AATCC standards.
- Patented AqCure technology works as (1) antimicrobial technology (2) copper fortification technology, and (3) Preservatives replacement technology

Impact Created

Nanosafe Solutions contributes to public health by reducing waterborne diseases and enhancing hygiene in water storage, textiles, and construction materials. Our technology is particularly beneficial for remote and underprivileged areas where access to safe water and hygienic living conditions is a significant challenge.

Patents/ Trademarks

- 1 granted patent, two filed patents, and one exclusively licensed patent from IIT Delhi.
- Trademark of AqCure - Aqua that Cures!

Product / Services

Active copper	Active copper in polymer	Active copper in textile
Copper powder and liquid	Masterbatch for molding	Copper emulsion for coating
<ul style="list-style-type: none"> • Actipart Cu 	<ul style="list-style-type: none"> • UNILDPE40MA 	<ul style="list-style-type: none"> • QPad Tex • QCoat Tex
<ul style="list-style-type: none"> • Actisol Cu 		

NEMA AI

(nemaai.com)



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Startup Summary

NEMA AI

Problem Statement

NEMA AI delivers cutting-edge technological solutions in education, healthcare, vocational training, and mental health sectors. Its flagship product is an AI platform that utilizes EEG brain mapping to tailor educational content for learners with diverse neurological needs, adjusting the curriculum dynamically as they progress. In the medical field, the platform aids in the early detection and tracking of cognitive disorders like dementia via EEG data analysis. By harnessing EEG data and AI, NEMA AI provides valuable insights and tailored interventions to enhance cognitive functions, learning experiences, and mental well-being.

Value Proposition

NEMA AI's unique value proposition lies in its AI-driven, EEG-based platform that offers personalized solutions across education, healthcare, and mental health. By tailoring learning experiences for neurodiverse individuals, enabling early detection of cognitive decline, and providing targeted vocational training and mental health support, NEMA AI bridges the gap between technology and personalized care.

Impact Created

NEMA AI is crucial for national and social progress by empowering neurodiverse individuals and those at risk of cognitive decline. Through personalized education, early cognitive intervention, and mental health support, it meets vital societal needs. NEMA AI boosts employability, promotes mental well-being, and fosters inclusion, creating a more equitable society. It aids early diagnosis and intervention, easing healthcare burdens and enhancing community quality of life.

Product / Services





SVAAROGYAM MEDICAL DEVICE

(svaarogyam.com)



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Startup Summary

iGLU ; Intelligent Glucose Monitoring Device

Problem Statement

Non-invasive glucose measurement device for body blood glucose measurement with continuous glucose monitoring support for diabetic people. Selfcare medical Devices which are focussing in developing a non-invasive glucometer using optical detection method that can measure wide range of glucose level with precision.

Value Proposition

iGLU: A Non-invasive, ergonomic, patient-centric, mobile application with AI/ML software backed medical device.

Impact Created

Diabetic people can adapt to continuous glucose monitoring through their non-invasive glucose measurement device, thus helping them lead an active life.

Patents/ Trademarks

A Device for Detection and Prediction of Epilepsy Reoccurrence ", Urvashi P. Shukla, Amit M. Joshi, Reg.No. 202311051949 [Svaarogyam Medical Device Pvt. Ltd. (Startup) Date of filling: .02-08-2023

Product / Services



XFINITO BIODESIGNS

(zeuron.ai)



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Startup Summary

MiMo (Mind Motion) powered by Zeuron

Problem Statement

1 in 3 worldwide suffers from Neurological conditions, which are chronic and, more importantly, affect the whole family.

MiMo by Zeuron addresses challenges in managing neurodevelopmental (such as ADHD, learning disorders, and autism) and neurodegenerative diseases (like Parkinson's and Alzheimer's) by integrating advanced sensors with interactive games. This enhances diagnostic accuracy, treatment adherence, and outcomes, making specialised neurological care more accessible.

Value Proposition

MiMo by Zeuron uniquely integrates real-time neurophysiological data with customised therapeutic gaming, enhancing diagnosis and treatment outcomes for neurodevelopmental and neurodegenerative conditions in a user-friendly platform.

Impact Created

A 2021 ICMR report in Lancet highlights the rising prevalence of non-communicable neurological disorders in India, with a significant increase in disability-adjusted life years (DALYs) from 1990 to 2019. This underscores the urgent need for tailored health system responses, improved awareness, early detection, and accessible treatment options to mitigate the impact on health infrastructure and economic productivity. Source00164-9/fulltext#seccestitle210)

Patents/ Trademarks

Patent Granted| "Intelligent Medical Technology Platform and Methods of Providing Affordable and Accessible Healthcare" | Grant Date: 15.02.2035 | Patent No. 511019 | Application Date: 22.06.2021

Product / Services



RENKUBE

(scitechpark.org.in)



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Startup Summary

Light harvesting Glass Accessories for Solar Panel that boost energy generation by 20%

Problem Statement

The biggest challenge in solar generation is continuous movement of the sun due to which panels are unable to generate their peak power at all times. And the only solution is using mechanical trackers. Renkuba's product is a new type of solar panel with a patent pending light redirecting prism. Just like a sunflower, Renkuba's smart panel captures more light and bends it towards the solar cells.

Value Proportion

Renkuba's product is a new type of solar panel with a patent pending light redirecting prism. Just like a sunflower, the smart panel captures more light and bends it towards the solar cell. On any given day, the increase the energy yield is 20% more than a fixed tilt and the additional capital cost is 50% of that of the trackers.

Impact Created

Renkuba's AgriPV panel has been featured in Agrisolar Best Practice Guidelines published as part of Solar Power Europe, Part of MNRE's India Agrivoltaics Alliance group – to promote Solar as 3rd crop for FarmersNational Startup Award Winner 2022 . Featured in Forbes Climate Edition

Patents/ Trademarks

PCT/IB2021/052953 – A Light Redirecting Prism , A Redirecting Prismatic Wall and a Solar Panel

Product / Services





EVELABS TECHNOLOGIES

(evelabs.co)



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Startup Summary

DRIPO

Problem Statement

Smart Infusion Monitor to help nurse set monitor and manage infusion therapy remotely in hospitals.

Value Proportion

Infusion errors are common in hospitals leading to patient morbidity and bad experience, Driipo helps in reducing the errors and improving patient safety by effective administration of gravity drips.

Impact Created

Infusion errors are common in hospitals, leading to patient morbidity and bad experiences; Driipo helps reduce the errors and improve patient safety through the effective administration of gravity drips.

Patents/ Trademarks

Indian, US and European Patent Granted.

Product / Services



PHANTASTIC BIOPLASTICS

(phantastic.org)



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Startup Summary

Polyhydroxyalkanoate (PHA) - Nature's own biodegradable plastic

Problem Statement

We are focussed at solving a problem caused by the absence of suitable alternative for petrochemical based, non biodegradable plastics. Plastics are synthetic materials that are extremely durable and are widely used for packaging applications, construction materials, toys, medical devices, and various other applications. However, this durability is also a curse as it leads to the accumulation of plastic waste in our environment. Our solution involves the sustainable bioproduction of Polyhydroxyalkanoates (biodegradable plastic made by microbes) using industrial effluents.

Value Proportion

PHA is a revolutionary bioplastic offering a sustainable alternative to traditional plastics. It is biodegradable, biocompatible, and derived from renewable resources. PHA boasts exceptional material properties, including strength, flexibility, and water resistance. It can be processed using conventional plastic processing techniques, making it a viable and scalable solution to plastic pollution

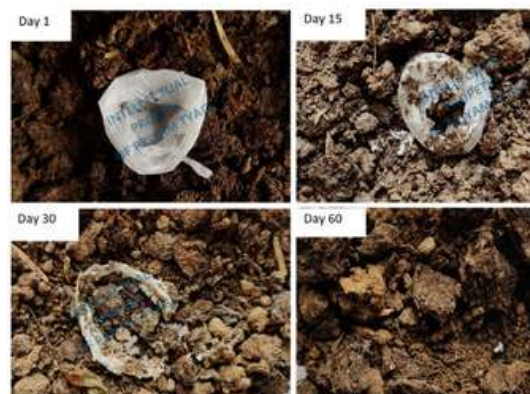
Impact Created

India, grappling with plastic pollution, urgently needs sustainable alternatives. PHAs offer a promising solution. Being biodegradable and biocompatible, they address the pressing issues of waste management and environmental degradation. By promoting PHA adoption, India can reduce plastic pollution, create green jobs, and improve public health. It aligns with the nation's commitment to sustainable development and circular economy as it utilizes industrial wastes as raw material.

Patents/ Trademarks

- Filed one provisional patent (in the process of complete patent filing) - 202211032023
- Filed three trademarks - 5455905,5455906,5455907 of which 5455905,5455906 have been granted while 5455907 is pending

Product / Services





STRAWCTURE ECO

(strawcture.com)



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Startup Summary

Developing high-quality carbon neutral bio-panels developed from agricultural waste used as sustainable construction material.

Problem Statement

Strawcture Eco Private Limited is an Uttar Pradesh based sustainable construction materials company. Strawcture manufactures and sells bio-panels made from agricultural waste such as bagasse, paddy straw and wheat straw.

Value Proposition

Strawcture envisions to be a green building product company with an ambitious goal to reduce embodied carbon emission of the construction sector by 50%.

Impact Created

They have installed passive insulation solutions in Ladakh, Spiti, Bikaner, Delhi for different communities such as schools, army, NGO, and a slum to make their living conditions better in extreme weather. The solution has shown over 10 degrees temperature difference, is lightweight and can be easily dismantled and moved to new places, and it is easy to install and maintain for community in the long run.

Product / Services





VED PRABHA AEROSPACE

(vaimanikaerospace.com)



VAIMANIKA
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Startup Summary

Agricultural Drone

Problem Statement

Problem in spraying of crops in larger area of land and surveillance in inaccessible area, highland, transportation, etc. Product/Service offered: Drone manufacturing and solutions to optimize Drone industries for Drone-As-A-Service for every sector where drones can make a difference.

Value Proportion

Maximum payload upto 30 ltrs. Better battery life that can be charged within 9 minutes. very light weight to carry to the farm and deploy. Easy user interface.

Impact Created

Our vision is to revolutionize industries through cutting-edge drone technology, driving innovation, efficiency, and sustainability. We aspire to be a global leader in autonomous aerial solutions, transforming how businesses operate and solve complex challenges.

Product / Services





AKINANALYTICS

(akinanalytics.com)



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Startup Summary

NANO RECON DRONE

Problem Statement

Empower the frontline soldiers at borders with action intelligence by providing situational awareness during covert operations.

Value Proportion

Maximum payload upto 30 ltrs. Better battery life that can be charged within 9 minutes. very light weight to carry to the farm and deploy. Easy user interface.

Impact Created

Significant for defence surveillance

Product / Services





DEEPTA FOOD PRODUCTS

(fitzofoods.com)



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Startup Summary

Value added healthy and tasty RTE & RTC Food Products from Calcium and Iron rich Ragi's milk Extract flour.

Problem Statement

Most of 45+ women group during menopause stage lose bone mass due to a decline in Estrogen Hormone. To compensate the loss ,regular intake of food products from Calcium and Iron rich Ragi's milk extract flour is essential. Every day fresh batter can be prepared easily for Age old persons and working women by mixing Urad dhall batter and Ragi milk flour alone. Healthy breakfast and Dinner from Natural Traditional millet Ragi. Regular intake prevents Anemia and Osteoporosis . Direct revenue to the farmers through purchase of raw material from Farmer Producer Organization.

Value Proportion

Concentrated Calcium, Enriched Iron as main product for healthy lifestyle. Regular consumption of Ragi milk products prevents anemia and Calcium deficiency, Strengthen bones and makes the person more active.

Impact Created

- 1.Supporting Farmers through direct revenue by purchase of Raw material Ragi.
- 2.Prevents Anemia and improves bone strength for Children,Teenagers,Working women and Age

Patents/ Trademarks

Patent Number : 202141032347
Date of filed : 19.07.2021
Date of publication -30.07.2021
Title : Ragi milk flour idly batter
Current status - Applied for examination

Product / Services





DEEPTA FOOD PRODUCTS

(hexpressions.org)



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**Startup
Summary
Problem
Statement**

Composite Honeycomb Panels

By 2025, about 440 million urban households around the world, and at least 1.6 billion people would occupy crowded and inadequate housing. Hexpressions is a product service innovation providing fast, modular and sustainable homes to the society.

**Value
Proportion**

This new-age wonder material can replace traditional construction materials and reduce the carbon footprint on the planet.

**Impact
Created**

Hexpressions is a product service innovation providing fast, modular and sustainable homes to the society.

**Product /
Services**





THREMEAR

(thremear.com)



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Startup Summary

A diagnostic strip-adhered menstrual pad for early detection of hormonal imbalance in women

Problem Statement

Hormonal imbalance originates well before the symptoms are unveiled. Health issues such as PCOD, PCOS, and early menopause are linked with hormonal imbalances; which are neglected or undiagnosed until women have their symptoms show up, like irregular periods and fertility issues. Currently, early screening of hormonal imbalances are not available to resolve these issues. Our product facilitates early detection by monitoring the imbalances without additional kits at affordable cost with which the users easily identify their health issues

Value Proportion

Point-of-care testing, Non-Invasive and early diagnosis, Affordable and user friendly, Without additional kits.

Impact Created

Our product focus on health awareness of women's wellness at an affordable cost. The product will impact the age group of 14 to 50, by challenging PCOD and hormonal health issues. Current testing of hormonal levels costs INR.500-800/sample, whereas our product is affordable (less than INR.80/month).

Patents/ Trademarks

Design 363445-001,
Patent 202141010412,
PCT PCT/IN2022/050810

Product / Services



SEMANTIC WEB TECH

(semanticweb.tech)



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Startup Summary

SemGenome-GVA

Problem Statement

LACK OF AFFORDABLE, AUTOMATED, EFFICIENT TOOLS FOR GENOME DATA ANALYSIS TO DIAGNOSE GENETIC DISORDERS IN HUMANS

Value Proposition

- Improved T-O-T (60-90% faster)
- Enhanced Accuracy
- Cost Advantage (45% +)
- Flexible & Scalable
- Cloud Delivery
- Validated with Data from Premier Research Organisations

Impact Created

India's home-grown Gene Variant Analysis platform for Diagnostics Labs and Research Entities. IndivarkB a unique knowledgebase of India specific genetic variants. Made-in-India Gene Variant Analysis Platform

Patents/ Trademarks

An early publication in the Indian patent journal dated 28th Feb 2020. Patent Number - 202041003845 A, Patent Title - SYSTEM AND METHOD FOR SEMANTIC BASED DATA INTEGRATION AND RETRIEVAL

Product / Services



VECROS TECHNOLOGIES

(vecros.com)



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Startup Summary

ATHERA - India's First Spatial AI Drone

Problem Statement

The journey of VECROS is a testament to the transformative power of innovative thinking and deeptech and how to turn into successful product. After identifying the issue of GPS-dependence in drone navigation, my co-founder Besta Prem Sai (IIT Delhi 2018) saw an opportunity rather than a setback. He established VECROS and our RnD efforts at IIT Delhi led to a groundbreaking solution that turned this challenge into the unique selling proposition for VECROS. We gave a demo for POC in late 2020 and probably the first ever GPS-Denied drone navigation in the India and currently VECROS delivers autonomous drones powered by the Spatial AI in the sky for exceptional data capture focused towards construction, defense, logistics.

Value Proportion

Our solution to problem of slow, expensive, & unsafe inspections of critical infrastructure & asset inspections sets it apart from its competitors by huge margins. Our state-of-the-art AI powered OS, ATHERA provides a faster & safer solution for inspections with use of autonomous drones & computer vision technology. Autonomy level 4 Athera has USPs like AI-on-edge, 360 degrees obstacle avoidance & gps-denied navigation which makes it 10 times faster than all current solutions

Impact Created

National: Featured in Shark tank India Season 3 and we were offered 1 Cr investment deal from Aman Gupta, Founder of Boat, Featured in multiple newspapers and article including INC24, Times of India, YourStory Media, National Television, etc

Patents/ Trademarks

We have filed 15+ patents currently. out of which 4 has been granted.
We have filed over 30+ trademarks out of which 3 has been granted
We have 2 copyrights granted.

Product / Services





PRASINOS TECH INNOVATIONS

(rechargion.com)



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Startup Summary

Sodium ion battery cells

Problem Statement

We are developing rechargeable battery based on sodium compound as cathode and compatible hard carbon as anode. The exclusion of the rare Li, Co, Ni elements is the first advantage of this design. Sodium ion chemistry also provides faster charging and better temperature window to handle the critical thermal runaway issue. We intend to develop pouch cells with nominal voltage 3.2 to 3.7 V and the capacities from 1-10 Ah. The targeted energy density is 150 Wh/Kg with cycle life of 5000. We define six 'S' of Sodium-ion technology as- Safe, Sustainable, Scalable, Suitable, Self-reliant, and Socially-relevant.

Value Proportion

Scarcity of lithium, high cost of Ni, Co, Cu and safety concerns have triggered development of alternate technologies for rechargeable batteries. Several incidences of electric vehicles catching fire and even a cargo ship sinking have been reported recently. Our Na-ion technology will allow zero-voltage storage, faster charging, wider temperature range and better thermal stability as well as improved storage capacity, better cyclability and lower cost.

Impact Created

The key elements like sodium and hard carbon are surface derived. Therefore, the excessive mining and colossal water consumption required for the lithium extraction will be reduced. This technology can substantially reduce the carbon emission with e-mobility and renewable energy storage. The cobalt mines are notoriously known for human right violations. An affordable and portable energy solution can help weaker and tribal sections of the society for drinking water and healthcare support.

Patents/ Trademarks

04 patents as background IP for the technology transferred from NCL and one joint patent filed recently

Product / Services



PRASINOS TECH INNOVATIONS

(rechargion.com)



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Startup Summary

NanoCav Blister: Advance Nanobubble Technology

Problem Statement

A variety of techniques, including the use of pump or blower systems, stirrer are being employed to infuse gas into a liquid medium to achieve a specific level of gas saturation. One limitation of current systems is their lack of feasibility in certain situations. Traditional aeration systems may struggle to effectively treat large bodies of water or extensive liquid volumes. The present invention describes the design and process of the nanobubble generator that is scalable, easy to plug & play and maintain, highly efficient, low power consumption and can be useful for myriad applications including effluent treatment, water disinfection, aquaculture, agriculture, food industry, drinking water purification and many more.

Value Proportion

- >85% Standard Oxygen Transfer Efficiency (SOTE)
- Easy installation and maintenance
- Small footprint and smart compact design
- Shore-mounted facility
- State of Art "Make in India" Product serving global needs at affordable price
- Plug & play device
- Replaces conventional aeration, blowers, diffusers saving more than 40% energy

Impact Created

1) Conservation of water; 2) Wastewater management and reuse; 3) Approaching zero-liquid discharge strategy; 4) Fulfilling the sustainable goal 6: Clean water and sanitation 5) Development of an integrated approach to concretely address relevant interlinkages between water, energy, food and its ecosystems nexus

Patents/ Trademarks

An advanced gas-liquid mixing system and technology for nanobubble generation (App No: 202441023639) (Under review)
Two more patents granted and 4 patents under review, 2 trademarks registered

Product / Services



KOZHNOSYS

(kozhnosys.com)



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Startup Summary

CanScan: Breathanalyser for breast cancer screening

Problem Statement

Breast cancer is a major health problem in India, as the country is witnessed a steady rise in cases over the years. There is no systematic, organized breast cancer screening program in India. Mammography, which is the most common screening technique. The cost and complexity of mammography make it difficult to implement on a large scale. Many women in India do not have access to affordable healthcare and may not be able to afford regular mammograms. Some women find the process of undressing for a mammogram embarrassing. This discomfort is due to a variety of factors, like cultural norms, personal modesty, anxiety about the procedure etc. This is one of the barriers that can deter women from participating in regular breast cancer screenings.

Value Proportion

Breath VOC (Volatile Organic Compounds) detection for breast cancer screening is a novel approach. It's a non-invasive technique, which makes it a comfortable and convenient for patients, requiring only a simple breath sample. A pilot study using CanScan proved that accuracy is >95%. Breath VOC detection has the potential for real-time breath-sensing analysis and a viable option for large-scale screening programs, leading to quicker diagnosis and treatment.

Impact Created

In India late-stage presentation of breast cancer is common, such a tool could be particularly impactful. It could facilitate widespread screening and early detection, even in rural areas, thereby addressing a significant healthcare challenge. CanScan as a non-invasive method, it could make the screening process more comfortable, encouraging more women to participate. The technology could detect cancer at an early stage, which is crucial for successful treatment and improved survival rates.

Patents/ Trademarks

Patents applied- 2 in US, 2 in India, 1 in Europe

Product / Services





BIRTHTECH INNOVATIONS

(thebirthtech.com)



Veena Venu
Founding Member

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Startup Summary Problem Statement

CanScan: Breathanalyser for breast cancer screening

We are addressing the critical need for basic healthcare facilities for pregnant women, regardless of their socioeconomic status or geographic location. Our goal is to ensure that pregnant women no longer have to travel long distances or endure extended wait times in vulnerable situations. Instead, they will have accessible, affordable, and efficient devices that provide the necessary support throughout the birthing process, ensuring the safety and comfort of both the mother and the child.

Value Proposition

We have developed the world's first flexible delivery bed, featuring unparalleled portability at just 15 kilograms with high tensile strength and a load-bearing capacity of up to 200 kgs. This innovative bed can be converted into multiple comfortable birthing positions, and its compact size allows it to fit easily into an ambulance. It also incorporates a patentable mechanism designed for ease of use by pregnant women, and is equipped with emergency apparatus to handle challenging situations.

Impact Created

With the introduction of our device into the Indian market, we aim to reach the 70% of women in the country who currently lack access to basic healthcare due to their socioeconomic and cultural backgrounds. Our device empowers women to choose where to give birth, ensuring they have access to efficient healthcare facilities without compromising their socio-cultural beliefs. This innovation has the potential to reduce maternal deaths by two-thirds, ensuring the safety of both mother and child.

Product / Services



SYNERSENSE

(SYNERSENSE.COM)

SynerSense



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Incubated @ (CoE/TBI)
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Startup Summary Problem Statement

MOVEAXON, GAITSENSE

In Bharat, 80 Million People with Locomotion Disability (Cerebral Polio, Stroke), Orthopedic-Neurologic Disorders, Road Accidents, and in sport Injuries is very common in any sports as reported for Indian and International Athletes and witness of Paris Olympics 2024, ended in loss of some medals with finished at 4th or lower positions due to injury. In Bharat, 4 Mn people become disabled annually which was estimated to be the 10th leading cause of nonfatal burden.

Value Proportion

SynerSense's innovation technology - MoveAxon is intended for Human performance, walking/Running Pattern study Analysis for sports, health and wellness. MoveAxon & GaitSense: patented frugal innovation provides Portable and Wearable Marker-Less System that Saves time, Accurate and highly affordable for end users, for athletes or player Human High Performance Athletes Analysis in sports science and first Bharat's start-up product in sports biomechanics.

Impact Created

In Bharat, 80 Million People with Locomotion Disability (Cerebral Polio, Stroke), Orthopedic-Neurology Disorders, Road Accidents, and in sport Injuries is very common in any sports as reported for Indian and International Athletes and witness of Paris Olympics 2024, ended in loss of some medals with finished at 4th or lower positions due to injury. In Bharat, 4 Mn people become disabled annually which was estimated to be the 10th leading cause of nonfatal burden.

Patents/ Trademarks

2 Patent Filed (Utility patents) for Products and Process of Innovation and Technology.
Brand names filed and Approved 11 Trademarks and copyrights

Product / Services



MARS HEALTHTECH

(marshealthtech.com)



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SCITECH PARK

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Startup Summary

Saliknow- Saliva Detection Pregnancy Test Kit

Problem Statement

Novel saliva pregnancy detection test kit, designed to offer a non-invasive, user-friendly, and accurate alternative to traditional pregnancy tests. The test kit leverages advanced lateral flow immunoassay and ELISA technologies for reliable results, addressing the need for more convenient and hygienic home pregnancy testing and other health conditions in future.

Value Proposition

Saliknow is a groundbreaking innovation in the field of at-home diagnostics, distinguished by its hygienic, convenient sample collection, dual detection technology, and user-friendly design. There is no need of private space to collect sample such as required in urine testing. This innovation contrasts sharply with traditional urine-based pregnancy tests and other emerging diagnostic methods by offering superior convenience, privacy, and accuracy.

Impact Created

This is a groundbreaking innovation in the field of at-home diagnostics kit for Pregnancy test which is non-invasive, user-friendly and accurate alternative to traditional pregnancy tests. There is no need of private space to collect sample such as required in urine testing. This innovation contrasts sharply with traditional urine-based pregnancy tests and other emerging diagnostic methods by offering superior convenience, privacy, and accuracy.

Product / Services





ALACRIS RESEARCH & DEVELOPMENT

(alacris.in)



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Startup Summary Problem Statement

Tissue Bank Project

Alacris R&D Pvt Ltd aims to address the critical shortage of bone grafts in Gujarat by establishing the state's first Tissue Bank. Tissue Bank will provide processed allografts for orthopedic procedures, significantly improving access to essential materials and play a central role in saving lives. Through collaboration with medical professionals, institutions, & regulatory bodies, this initiative will enhance patient outcomes, support medical research, & elevate healthcare quality in the region. Other products include Bacoma, Qif and silicone coronary shunts

Value Proportion

Alacris R & D Pvt Ltd's Tissue Bank will address Gujarat's shortage of bone grafts, enhancing patient care by providing processed allografts for orthopedic procedures; improving outcomes, reduce recovery times, and minimize complications. The bank will also support medical research and education, foster collaborations with healthcare providers, and ensure regulatory compliance. By localizing supply, it will improve accessibility, lower costs, & strengthen Gujarat's healthcare infrastructure.

Impact Created

Tissue Bank addresses a critical national healthcare gap by ensuring the availability of bone grafts for orthopedic procedures, which are currently in short supply in Gujarat. This initiative will contribute to improvement of patient's quality of life, reduce surgery delays, support medical research & education. By improving access to essential biological materials, the Tissue Bank will contribute to the overall quality of healthcare, setting a precedent for similar advancements across India

Patents/ Trademarks

Alacris R&D boasts a versatile IP portfolio, including 4 technology patents, 4 design patents, and approximately 24 trademarks. Some of these valuable assets are intended to be sold and licensed to OrthoHeal company, highlighting the strength and diversity of Alacris R&D's intellectual property

Product / Services



QUANFLUENCE

(quanfluence.com)



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Startup Summary Problem Statement

Photonic Quantum Computer

Quanfluence is building a utility scale Photonic Quantum Computer whose physical size and cost are significantly lower than competition. Quanfluence will build and deploy quantum computers with many logical qubits to enable breakthroughs in material science, drugs discovery, energy solutions and many other problems which are considered intractable today. The photonics approach will allow seamless networking and distributed computing. The company is incubated at IIT-Madras, We are grantees under two Govt of India, DoT schemes, viz the DCIS and TTDF programs. Quanfluence founders are physicists, serial entrepreneurs, chip designers and product managers with decades of experience in their respective domains.

Value Proportion

Alacris R & D Pvt Ltd's Tissue Bank will address Gujarat's shortage of bone grafts, enhancing patient care by providing processed allografts for orthopedic procedures; improving outcomes, reduce recovery times, and minimize complications. The bank will also support medical research and education, foster collaborations with healthcare providers, and ensure regulatory compliance. By localizing supply, it will improve accessibility, lower costs, & strengthen Gujarat's healthcare infrastructure.

Impact Created

Heavy impact of applications in sensitive fields such as cryptography, defence, each nation is scrambling to develop their own IP in this field. Nations across the world have invested heavily in research and development of quantum computers. QCs find applications in the fields of pharmacy and new material research. They are far more efficient at molecular modelling and simulation. Tremendous speed up for drug discovery, enable lifesaving drugs to reach patients faster.

Patents/ Trademarks

3 patents filed so far in India. 2 of these are also filed for in the US. India app nos-.202221035923, 202321037110, 202441057594. US app nos-. 18/212895, 18/676969

Product / Services





TERALUMEN SOLUTIONS

(teralumensolutions.com)



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Startup Summary

Developer of medical devices for detection of cancer margin

Problem Statement

Teralumen Solutions is a provider of medical-grade Terahertz diagnostic products, industrial-grade Terahertz testing solutions, and research-grade THz systems for a diverse array of markets.

Value Proposition

The company's detection device is based on non-ionizing/non-invasive technology which is used to detect breast cancer margin during Breast Conservation Surgery (BCS). The company also offers Terahertz Spectroscopy for skin health monitoring it uses the proprietary Terahertz technology which is an AI-based algorithm to monitor the level of skin hydration and the harmful effects of cosmetics and other skincare products.

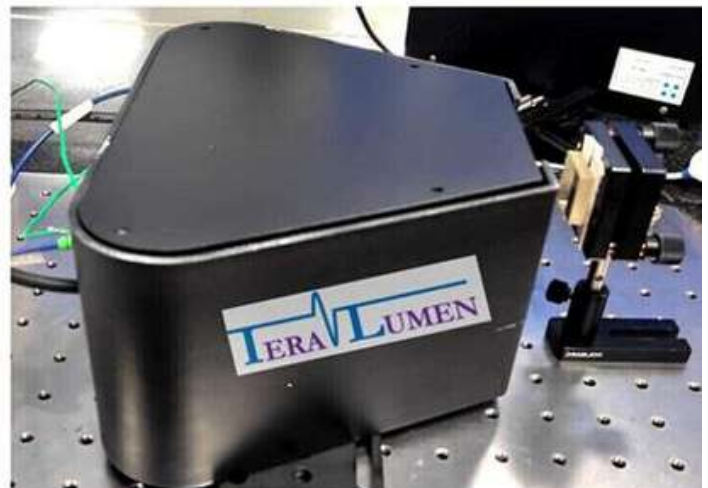
Impact Created

Healthcare & NDT: 1. A pulsed Terahertz system with a larger bandwidth spanning from 0.5 to 3 THz, will be utilized for various industrial non-destructive applications such as detection of damages, internal defect/void and multilayer coating thickness measurement etc..2. A reflection mode Continuous Wave (CW) Terahertz (THz) system to monitor skin hydration and carry out THz imaging, will find application in skin care products

Patents/ Trademarks

Patent 1: "Device for detection of breast cancer margin and a system thereof" (PCT/IN2022/050571)
Patent 2: Terahertz imaging system for optimizing sample position and methods thereof (Appn. No.202241033201)

Product / Services





FEMACARE

(femacare.info)



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Startup Summary

Femacare: Empowering Women's Health through Innovative, Hormone- Free Solutions

Problem Statement

Femacare, an SINE IIT Bombay-incubated startup, is pioneering women's health with a Full Stack Care Delivery System. The Hormone-Free Technology, developed at the IIT Bombay Nanobiosis Lab, is clinically validated, undergoing FDA approval, and have filed patent for it. Built by doctors and backed by science, Femacare delivers innovative, reliable solutions. Aim is to address the unmet health needs of 1.2 billion women by providing personalized, effective, and affordable reproductive and hormonal health solutions. The company's unique strength lies in precision medicine, advanced science, and holistic care, offering tailored treatments that consider both physical and emotional well-being, with personalized plans and nutraceuticals.

Value Proportion

Hormone-free electro-spun technology for innovative products like Vega IUD, Fertigen & Menovix. Multiple prevention, novel drug delivery methods. Integrated solutions for pelvic organ prolapse and vaginal atrophy. Personalized fertility plans, couple counseling, assessments, awareness camps, and ovulation tracking. The company is focused on developing affordable, accessible solutions. With over 40K doctors and strong partnerships, Femacare is well-positioned to revolutionize women's healthcare

Impact Created

Femacare recently organized free medical camps in Delhi, reaching 100+ patients. We identified infertility, menopause, and contraception as key challenges. Our hormone-free FERTIGEN, integrated MENOVIIX therapy, and VEGA IUD offer affordable solutions. By addressing these issues, Femacare promotes women's health, gender equality, and informed reproductive choices, contributing to India's socio-economic development.

Patents/ Trademarks

Filed for patent applications to safeguard our core innovations (novel nanoemulsion gel-based composition (Application number: 202321019394) and non- hormonal intrauterine device (Application number: 202321039113).

Product / Services



MEDPRIME TECHNOLOGIES

(medprimetech.com)



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Startup Summary

Micalys - Multifunctional microscopy platform

Problem Statement

Micalys, is an advanced multifunctional microscopy platform that offers a comprehensive range of imaging and telepathology solutions for diagnostic laboratories. Micalys has four modes of operation i.e live view with robotic remote control, whole slide imaging, artificial intelligence and Manual mode. It's a single device that can fulfil all the digital microscopy and telepathology needs of a lab. They also have a line of tablet integrated digital microscopes called Cilika for diagnostic & research purposes. The patented technology and unique optical design set themselves apart from other traditional microscopes.

Value Proposition

- Four Modes of Operation: Remote access and control, whole slide imaging, artificial intelligence, and manual mode.
- Reduced Turnaround Time: Eliminates the need for physical sample transportation, speeding up reporting.
- AI-Powered Diagnosis: Diagnoses infections like malaria, filaria, and TB.
- Enhanced Efficiency and Accuracy: Reduces workload, improves diagnostic accuracy, and eliminates subjectivity.

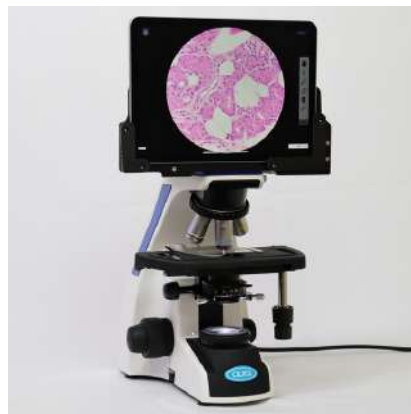
Impact Created

MedPrime Technologies is making a significant impact on the healthcare ecosystem by developing innovative solutions that improve service delivery for all. Their focus on addressing widespread health problems and developing safe, breakthrough technologies demonstrates their commitment to enhancing healthcare accessibility and quality. By prioritizing the needs of the masses, MedPrime is contributing to a healthier and more equitable society.

Patents/ Trademarks

3 patents granted for Cilika, trademarks granted for Cilika, MedPrime and Micalys. Patent for micalys will be filed

Product / Services





SWAYOGYA REHAB SOLUTIONS

(swayogya.in)



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Startup Summary

Swa-knee A PEMF orthotic system for knee osteoarthritis.

Problem Statement

Osteoarthritis (OA) affects 500 million globally, with prevalence rising among adults over 40. By 2032, one in three adults may suffer from OA, driven by aging populations and obesity. Current treatments are symptomatic, and joint replacement doesn't fully restore function. Swayogya's Swa-knee, a PEMF-based therapeutic device, offers a portable, cost-effective solution that reduces pain and may slow knee cartilage degeneration. Phase II trials at AIIMS Bhubaneswar showed significant improvement in all knee OA parameters. Swa-knee aims to meet demand in a KOA market projected to reach \$781.94 million by 2028

Value Proportion

- Swa- Knee provides tailored magnetic field therapy for different grades of knee osteoarthritis.
- Proven Effectiveness: Demonstrated long-lasting pain relief.
- Potential to slow cartilage degeneration with extended use.

Impact Created

From a national perspective, the widespread adoption of Swa-knee could have profound implications for public health. By providing an accessible and affordable treatment option, Swa-knee has the potential to reduce the economic burden of OA on both individuals and the healthcare system. Swa-knee is poised to meet the growing demand for effective OA treatments, thereby contributing to the country's economic growth and healthcare innovation landscape.

Patents/ Trademarks

One IP granted with Application number: 202231076570, other design patents App no : 345739-001, 377437-001, 372496-001, 368331-001, 372499-001

Product / Services



ONEOMICS

(oneomics.in)

ONEOMICS



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Startup Summary

Zero-Prep Saliva Collection Kit, MucorCheck qPCR Kit

Problem Statement

Zero-Prep Saliva Collection Kit: Easy, fast, noninvasive and affordable. Kids & Old age people can be diagnosed from home. Extremely useful to diagnose oncogenesis and tumor progression, especially in Oral Cancer.

The MucorCheck qPCR Kit has been designed to identify Mucorales in a single PCR reaction using real-time quantitative polymerase chain reaction (qPCR) and probe fluorescence labels. The detection of target DNA can confirm those suffering from Mucormycosis.

Value Proportion

Saliva Collection Kits: Easy, fast, non-invasive. Safe & robust, transportation and storage of saliva samples. Saliva preservation solution stabilizes buccal and white blood cells found in saliva over 1 year at room temperature

MucorCheck qPCR Kit: Aids in the diagnosis of mucormycosis, Rapid, sample-to-result in less than 2.5 hours, Detection of clinically relevant mucor species, High sensitivity and specificity for mucor sp detection, No cross reactivity with other fungal species

Impact Created

People recovering from COVID-19 are affected by black fungus or mucormycosis. If its progression is not checked early, 50-80% of patients could die and people suffering from COVID-19, HIV/AIDS and other viral diseases, congenital bone marrow disease, cancers and diabetes have reduced immunity are prone to developing mucormycosis. Saliva Collection Kit: Kids & Old age people can be diagnosed from home, extremely useful to diagnose oncogenesis and tumor progression, especially in Oral Cancer.

Product / Services

ONEOMICS





ONEOMICS

(aristavault.com)



ARISTA VAULT



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Startup Summary

Smart Wallet, Smart Bags, Smart Luggage

Problem Statement

In the fast-paced world we live in today, the loss or theft of important belongings is an all too common occurrence. Every day, thousands of bags and mobile phones go missing, leaving people frustrated and worried about their valuable possessions. However, our innovative startup, Arista Vault, has set out to change this narrative by merging technology and fashion to create a range of smart luggage and accessories that prioritize safety and convenience.

Value Proposition

The product lineup includes smart wallets, smart luggage, smart laptop bags, smart trolleys, smart office bags, smart keychains, and Spectrack. These items are infused with patented technology and engineered materials designed to prevent loss and theft. Some of the standout features include anti-loss and anti-theft functionalities, pickpocketing alerts, location tracking for lost items, wallet-calling features, airport prompts,

Impact Created

In the fast-paced world we live in today, the loss or theft of important belongings is an all too common occurrence. Every day, thousands of bags and mobile phones go missing, leaving people frustrated and worried about their valuable possessions

Product / Services





PANKHTECH INDIA

(neuphony.com)



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Startup Summary

Neuphony EEG Flex Cap

Problem Statement

India's First wearable and portable EEG Device
Most affordable device worldwide

Value Proposition

India's First wearable and portable EEG Device
Most affordable device worldwide

Impact Created

Neuphony has enabled individuals to work upon their mental health and improve themselves through neurofeedback. Neuphony has also enabled researchers and BCI engineers to work upon BCI applications in the field of medicine to defense helping advance the future of technology as we know it.

Patents/ Trademarks

3 trademarks, 2 copyrights for software
1 design registration under 5 classes Europe and india
1 software patent india and US

Product / Services





CANCRIE

(cancrie.co)



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Startup Summary

Advanced NanoCarbon from Waste for High Performing Batteries

Problem Statement

Cancrie is helping millions of batteries increase their energy efficiency by transforming waste into high purity nanomaterial that increases the performance of batteries and capacitors by up to 125%. We make material using our patented technology that saves 13x GHG emissions and supports the energy storage and mobility industry with better and greener alternative without extra mining or burden on the supply chain.

Value Proportion

Battery performance depends on efficient electrochemical reactions and charge transfer, influenced by the pore network and surface area of the electrode. Conventional carbons, with low surface area and micropore structures, limit performance and are derived from fossil fuels. In contrast, Cancrie Nanocarbons, made from biomass, offer a high surface area, interconnected pore networks, and surface functionalities that enhance electrolyte penetration and charge transfer, all at an economical cost.

Impact Created

At Cancrie, we enhance battery efficiency by transforming waste into high-purity nanomaterials, reducing dependency on fossil fuels and supporting India's energy goals. Cancrie contributes to India's Panchamrit commitments by facilitating greener energy transitions, reducing carbon emissions by 120 million tons CO2 annually, and lowering energy costs. By 2050, we aim to cut emissions by 4 GT CO2 annually, helping India achieve net zero by 2070 and ensuring equitable access to renewable energy.

Patents/ Trademarks

Mahi Singh, A. Jain, A Process to Obtain High Performance Mesoporous Activated Carbon For Energy Storage, (Application number: 202011040624)

Mahi Singh, A. Jain, Amitej Rao, Nanoporous Carbon For Energy Storage And A Method For Production Thereof, (Application Number: 202311069328)

Product / Services





SWADHA AGRI

(swadhaagri.com)



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Startup Summary

Swadha

Problem Statement

Swadha Agri solves critical issues in rural dairy farming by creating a tech-enabled cow-to-consumer supply chain. It addresses the pain points of consumers in Tier II and III cities by providing easy access to fresh, unpasteurized milk, solving issues of quality, service and convenience while empowering small-scale women farmers with fair pricing.

Value Proportion

Swadha Agri's unique value lies in its commitment to delivering quality milk to underserved customers in Tier II and III cities within hours of milking. The platform eliminates middlemen, directly sources from 600 women farmers, ensures financial inclusion, and offers consumers high-quality milk through a convenient, subscription-based model.

Impact Created

Qualified for seed funding under STPI Chunauti 7.0, Recognized by NASSCOM WE, Part of the Goldman Sachs 10,000 Women program

Product / Services





AUTOYOS

(autoyos.com)



AUTOYOS



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Innovation Exchange (SRiX)

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Startup Summary

Dry Eye Analyzer

Problem Statement

Dry eye disease, also known as dry eye syndrome, is a common condition that occurs when the eyes do not produce enough tears or when the tears evaporate too quickly. This can result in dry, itchy, and irritated eyes. In more severe cases, it can lead to blurred vision and even damage to the surface of the eye.

Value Proportion

In order to address the acute lack of ophthalmic specialists and restricted usage of products/services, we have come up with intelligent Autonomous Medical Systems which can provide comprehensive eye care in non-clinical and resource-poor settings without depending on skilled manpower.

Impact Created

Improving eye care for all, especially for millions of IT Employees who have excessive exposure to screen time.

Product / Services





WAFERCHIPS TECHNO SOLUTIONS

(mybiocalculus.com)



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Startup Summary

BIOCALCULUS

Problem Statement

Biocalculus, the only Made in India External Loop Recorder (ELR) is a wearable reusable patch that continuously monitors heart rhythm for upto 30 days, detecting arrhythmias like atrial fibrillation (AFib) that increase the stroke risk. By enabling early detection and treatment, ELR reduces stroke risk, improves patient outcomes, and addresses India's high stroke burden. This innovative device helps healthcare providers identify and manage arrhythmias effectively, making a significant impact on the country's stroke management

Value Proportion

- Small and portable: Easy to wear and doesn't disrupt daily activities
- Water-resistant: Can be worn while bathing
- Easy data analysis: Automatic data analysis and reporting for healthcare providers
- Cost-effective: Reduces the need for repeated tests and hospitalizations

Impact Created

Biocalculus, the only Made in India External Loop Recorder (ELR) is a wearable reusable patch that continuously monitors heart rhythm for upto 30 days, detecting arrhythmias like atrial fibrillation (AFib) that increase the stroke risk.

Product / Services





RIVOT MOTORS INDIA

(rivotmotors.com)



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Incubated @ (CoE/TBI)
SR Foundation_SR
Innovation Exchange (SRiX)

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Startup Summary

RIVOT MOTORS

Problem Statement

EV scooters face issues such as limited battery life, leading to range anxiety, and long charging times. They can suffer from inconsistent build quality and lack of durability. Additionally, inadequate infrastructure and safety concerns, including poor road conditions and traffic accidents, hinder their widespread adoption and reliability.

Value Proportion

- RecoEngine : Our indigenously designed motor inverter extends the range by approximately 45%.
- tremoFrame: The world's first EV-specific two-wheeler frame, made from ultra-light materials, further extends the range.
- Modular Battery Pack: The only form factor and chemistry-agnostic battery pack in the market, decoupling battery technology from the vehicle.
- IPM-SynRM Motor: A drivetrain built for India from the ground up, offering an additional 20% range efficiency.

Impact Created

Contributing towards zero carbon, reducing dependence on fossil fuels, reducing range anxiety, EV two-wheeler user and providing enhanced utility to the user.

Patents/ Trademarks

Application Number: 329744-001
Date of Filing: 02/06/2020
Date of issue : 11/05/2021
Title of Patent: RIVOT MOTORS INDIA PRIVATE LIMITED

Product / Services

