



Office of the Principal Scientific Adviser
to the Government of India



AGRI-TECH Startup Compendium

Pioneering the Future of
Agriculture

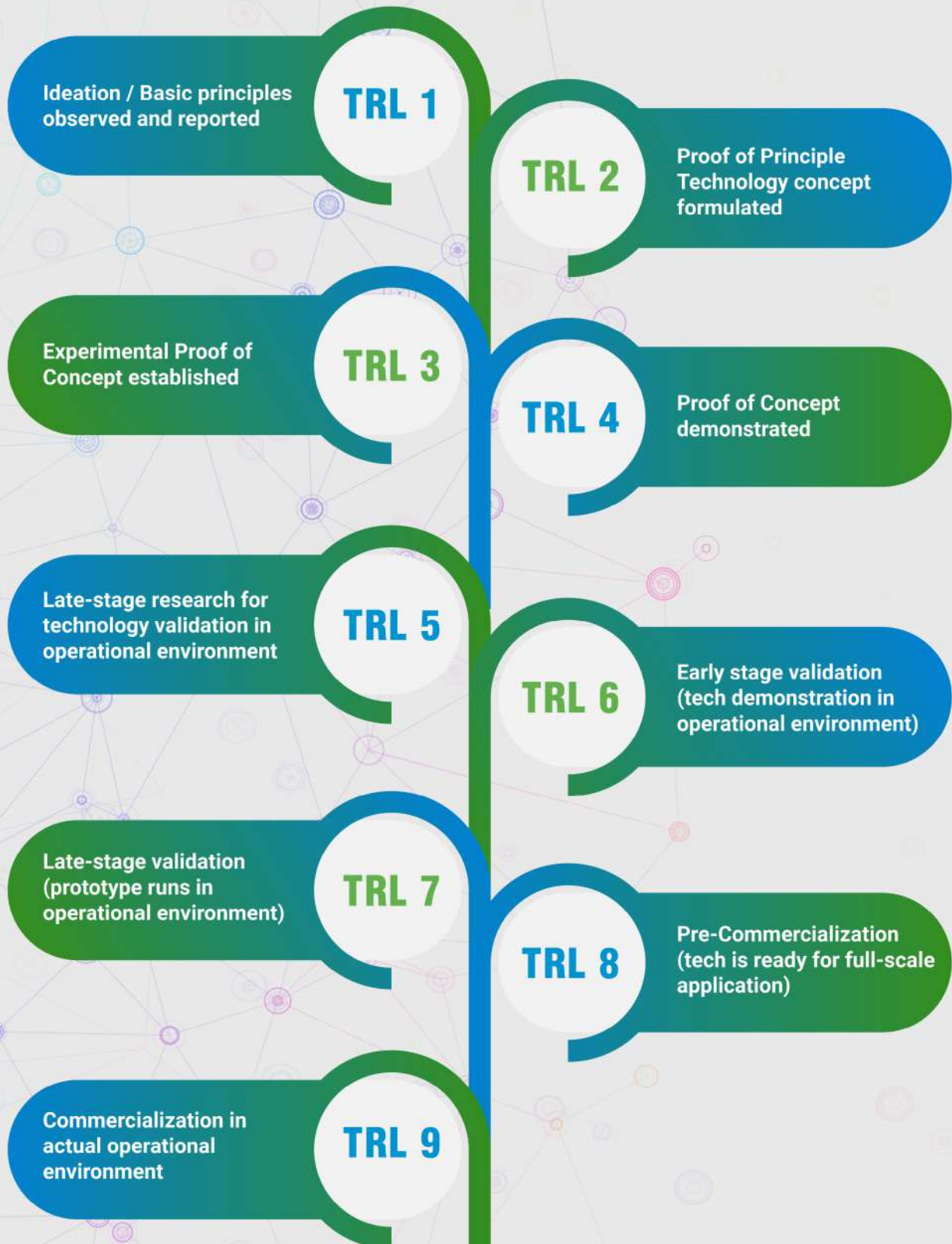


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TRL and Its Usage



AGRI-TECH Startup Compendium

India's agri and allied sectors are undergoing a remarkable transformation, driven by an emerging wave of start-ups determined to solve persistent challenges from yield optimization and post-harvest losses to market linkages and climate resilience. Yet, while innovation is thriving, the journey from idea to impact remains fraught with hurdles.

Through this compendium, the Research and Innovation Circle of Hyderabad (RICH) captures a snapshot of 71 promising Agri start-ups and delves into the ecosystem-level support they need to thrive. Drawing on direct inputs from founders and incubators, the insights go beyond anecdotal evidence, revealing the systemic gaps that must be addressed to enable scale, sustainability, and socio-economic outcomes.

The findings are clear: funding remains the most urgent need, but equally critical are pathways to industry partnerships, patient capital, validation infrastructure, and government collaboration. These are not isolated asks, they represent the contours of an ecosystem that must evolve to truly support Agri-tech innovation.

This compendium is both a showcase and a call to action for investors, policy-makers, ecosystem builders, and institutions to align efforts and unlock the transformative potential of Agri start-ups in India. By bridging these gaps, we move closer to a future where innovation in the field directly translates to impact on the ground.

Note: The data in this Compendium is valid up to September 2024. Any developments occurring after September 2024 are not included.

A Comprehensive List of AgriTech Start Ups



Registered name:

Aana Crop Solutions

Brand name of the start-up:

BAMINI

Founder(s) Name:

Nivas

Operational in:

Tamilnadu and Pondicherry

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

Unilever award for sustainable agriculture water usage in 2023

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Revenue through sale of products, services & rentals in rice value chain.

START-UP DESCRIPTION

Aana Crop Solutions provides end-to-end support for rice farming, offering rice seedlings to farmers, aggregating farm mechanization services, and facilitating paddy collection and rice sales to premium markets. The startup also promotes agri-business entrepreneurship among youth through a franchise-based model and engages in R&D focused on sustainable rice farming and reducing greenhouse gas emissions. While the approach is built on existing agricultural practices, Aana Crop Solutions differentiates itself through its integrated, scalable, and impact-driven execution model.

IMPACT

Promotes sustainable agriculture through water-saving practices and direct market access to eliminate middlemen.

END USERS/CUSTOMERS:

Farmer and Butchers

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Harvesting/QC
- » Markets



Registered name:

Aditya Bioinnovation Pvt Ltd

Brand name of the start-up:

Aditya Bioinnovation

Founder(s) Name:

Aniruddha Surjyoti Bagchi

Operational in:

West Bengal, Gujarat, Chhattisgarh, Jharkhand, Haryana, East UP, Parts of Maharashtra

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 2021- Best innovative agri startup by Agri-Food Empowering India awards.
- » 2019- Received full grant through RKVY-RAFTAAR scheme.

FUND RAISED

INR 25 lakhs through RKVY-RAFTAAR in 2019

BUSINESS/REVENUE MODEL

Revenue through Product sale

START-UP DESCRIPTION

Aditya Bioinnovation manufactures biostimulants and organic plant protectors derived from medicinal plant extracts. They have plant protectors for thrips, mites, sucking pests like borer, Tobacco Mosaic Virus in Chillies, and fungus like fusarium wilt, reducing synthetic pesticide dependency. Their biostimulants and plant protectors are formulated using medicinal plant extracts as the active nanomaterials. These solutions aid plants in developing secondary metabolites, which enhance their natural immunity and overall strength.

IMPACT

The startup helped 100+ farmers go organic and developed a DAP alternative for sustainable farming.

END USERS/CUSTOMERS:

FPO, organic farming groups.

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Plant Protection



Registered name:

Afficux Agritech Private Limited

Brand name of the start-up:

Goat Bank Odisha

Founder(s) Name:

Jayanti Mahapatra

Operational in:

Odisha

Technology Readiness Level (TRL):

TRL 2. Proof of Principle /Technology concept formulated

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

No

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Revenue through services like vaccination, Medicine & treatment, market & financial linkages.

START-UP DESCRIPTION

Afficux AgriTech is transforming goats and sheep farming in Odisha by reducing mortality rates through timely vaccinations and medical care. It empowers farmers with education and innovation, promoting a scalable, sustainable model. Using technology, goats are tagged and synced to a system, allowing access to data such as breed, vaccination and medication history, and doctor-on-call services—ensuring efficient, health-focused, and profitable livestock management.

IMPACT

The startup reduces livestock mortality by providing timely vaccinations, medical care, and data-driven management solutions.

END USERS/CUSTOMERS:

Small and marginal farmers

CATEGORIES

» Allied activities

**Registered name:**

Aggois Business Solutions Pvt Ltd

Brand name of the start-up:

Aggois

Founder(s) Name:

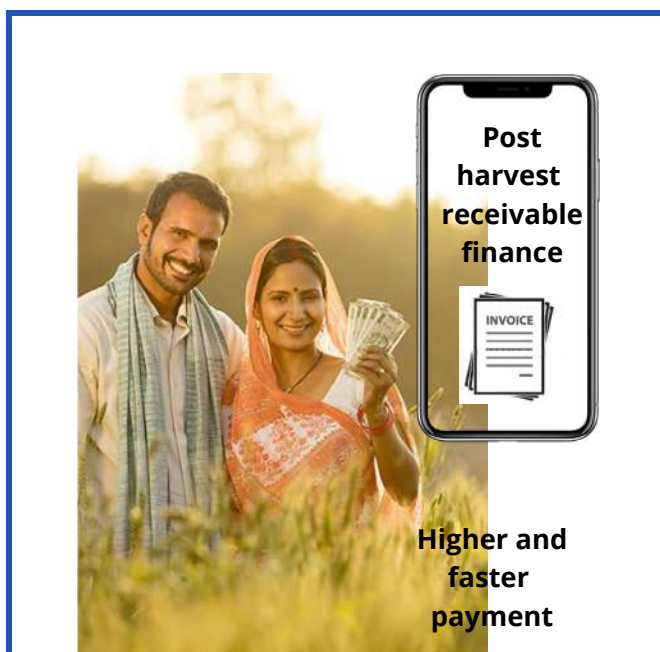
Prathmesh Kant

Operational in:

Karnataka, Maharashtra, Gujarat

Technology Readiness Level (TRL):

TRL 7. Late-stage validation (prototype runs in operational environment)

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

- » Top 100 startups in Maharashtra State Innovation Society Week, 2021
- » TSS Emerging Social Enterprise of the Year, 2021
- » Finalist, rural panel in 8th National Conference on Social Innovation by Pune International Center

FUND RAISED

2.55Cr equity and 40L grant, last round was led by Prodapt Technology Solutions Pvt Ltd

BUSINESS/REVENUE MODEL

Financial intermediation model with upto 20% interest rate (annualised), B2B & B2B2C partnerships

START-UP DESCRIPTION

Aggois is an AgriFinTech focused on financial inclusion and digitization, addressing farmers' year-round financial needs through B2B partnerships with financial institutions and rural channel partners. Operating on a B2B2C model, it offers semi-collateralized financing directly into farmers' accounts. During cultivation, it provides input on credit financing. Post-harvest, it offers receivable financing, MSP receivable financing, and storage financing, with recoveries facilitated through channel partners or mandates, ensuring low-cost capital delivery with minimal delinquency.

IMPACT

The startup measures impact through farmers benefitted, income growth, and business expansion for agribusiness partners.

END USERS/CUSTOMERS:

Farmers, agribusinesses / entities transacting with farmers, NBFCs

CATEGORIES

- » Financial Services



Registered name:

Agrifood Tech Private Limited

Brand name of the start-up:

Agrifood Tech

Founder(s) Name:

Sushil Shelke

Operational in:

Maharashtra, Telangana, Andhra Pradesh, Karnataka, Gujarat And Tamil Nadu.
Supply To Pilot Plant by Farmers: 185 from Marathwada Region | District Aurangabad & Jalna: Phulambri, Kannad, Soygaon, Sillod, Bharadi & Bhokardhan. Zero Intermediaries. 200 Acres Plus of Ginger and Turmeric

Technology Readiness Level (TRL):

TRL 5. Late-stage research for technology validation in operational environment

START-UP DESCRIPTION

Agrifood Tech addresses post-harvest challenges in turmeric and ginger farming with its rapid rhizome processing technology, which eliminates dependency on sun drying. The startup replaces traditional 30-day drying methods with mechanized solutions to reduce weather-related losses and quality degradation. By automating boiling, drying, and polishing processes, Agrifood Tech minimizes labor-intensive steps and contamination risks. Their innovation targets farmers struggling with unseasonal rains and unhygienic drying practices, offering a standardized, efficient alternative to produce market-ready rhizome products with higher shelf life and nutritional retention.

IMPACT

The startup has helped 180+ farmers reduce rhizome drying time, minimizing losses and improving quality.

END USERS/CUSTOMERS:

Farmer Producer Organisations / Farmers Community / Farmers

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 1 Finalist GI Grand Challenge 2024 Start-up India, DPIIT (Runners Up)
- » 2 Winner of Agri India Hackathon 2021 Organised by PUSA KRISHI
- » 3 Recognised by AGNII (Office of Principal Scientific Adviser Government of India)
- » 4 Recognised by RAJIV GANDHI SCIENCE & TECHNOLOGY COMMISSION Maharashtra State

FUND RAISED

49,50,000 INR BIRAC

BUSINESS/REVENUE MODEL

Revenue through Project & Market linkage consultation, Technology transfer.

CATEGORIES

- » Processing/Value Addition
- » Markets

**Registered name:**

Agrodroid Private Limited

Brand name of the start-up:

Agrodroid

Founder(s) Name:

Vuppu Mahesh

Operational in:

Telangana

Technology Readiness Level (TRL):

TRL 4. Proof of Concept demonstrated

START-UP DESCRIPTION

AGRODROID develops solar-powered autonomous robots to address labor shortages in cotton farming. Their modular robots perform sowing, weeding, fertilization, and harvesting using AI, computer vision, and GPS navigation. Designed to retrofit existing farm equipment, the technology optimizes row spacing and pesticide application while minimizing soil compaction. AGRODROID aims to reduce operational costs for India's cotton farmers through scalable, precision agriculture solutions.

IMPACT

The startup reduces labor dependency and costs in cotton farming through scalable, solar-powered precision agriculture robots.

END USERS/CUSTOMERS:

small and marginal farmers who are cultivating cotton up to 7 acres of land

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Boston Immersion Program 2024 Northeastern University (fully sponsored trip nourished on business aspects) (Boston, USA) (2024)
- » Featured in Times of India & The New Indian Express
- » Best Social Impact Business Idea Award at SmartIDEathon 2023, Competing among 1000+ startups all over India (2023, Gitam University in collaboration with startup India , Invest India & Northeastern University (Boston, USA))

FUND RAISED

- » 50K GRANT from Sreenidhi Ascend,
- » 100K from IITH Hyderabad in collaboration with Greenco

BUSINESS/REVENUE MODEL

Rental services for cotton farming operations.

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Plant Protection
- » Harvesting/QC



Registered name:

Agroww kavach

Brand name of the start-up:

Agroww Kavach

Founder(s) Name:

Agroww Kavach

Operational in:

Across India

Technology Readiness Level (TRL):

TRL 4. Proof of Concept demonstrated

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» No

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Revenue through Ads, subscriptions, fees & commissions.

START-UP DESCRIPTION

Agroww Kavach provides holistic support to farmers through a weather-based advisory app, quality agricultural inputs, cold storage solutions, and financial services. Their app offers daily farming recommendations using patented algorithms tailored to local climatic conditions, while partnerships with banks facilitate access to loans. The startup also promotes organic farming through training programs and campaigns. Agroww's cold storage network and franchise model aim to reduce post-harvest losses and empower rural entrepreneurs.

IMPACT

Post-harvest losses have been reduced by 30% through advanced cold storage solutions, while the Krushi Kavach initiative has led to a 40% rise in the utilization of nearby cold storage facilities.

END USERS/CUSTOMERS:

Farmer

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Storage & logistics
- » Markets



Registered name:

AgroZee Organics Pvt Ltd

Brand name of the start-up:

Millet's Now

Founder(s) Name:

Mahesh Londhe

Operational in:

Maharashtra, UP, Jharkhand, Rajasthan

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Winner of Start-up Grand Challenge by MoFPI
- » Winner of Entrepreneur of the year By PMA
- » Winner of Nature Care Award
- » Best Agri Startup in Millet By FICCI @2023
- » Winner of Falling Wall Lab India 2022
- » Winner of AgLive @2023 the Millet Challenge by CII
- » Buddha Fellowship for Millets with Malnutrition

FUND RAISED

83 Lakh

BUSINESS/REVENUE MODEL

B2B, B2C, B2G

START-UP DESCRIPTION

Millet's Now is a social enterprise dedicated to addressing malnutrition and micronutrient deficiencies in Indian children by offering affordable, millet-based nutritional products. These products are distributed exclusively by women, promoting financial inclusion and empowering them as a means to reduce poverty. The enterprise employs a Combined Hydrothermal–Near Infrared Rays treatment to enhance the shelf life of iron-rich pearl millet flour, ensuring both nutrition and sustainability.

IMPACT

The startup combats malnutrition, empowers women, and extends shelf life of iron-rich millet products.

END USERS/CUSTOMERS:

Children and Women

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Processing/Value Addition
- » Storage & logistics
- » Markets

**Registered name:**

AI-GENIX INTERNATIONAL PVT LTD

Brand name of the start-up:

AI-GENIX INTERNATIONAL PVT LTD

Founder(s) Name:

Shahnaz Shaikh

Operational in:

PAN India and International market

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

- » Winner SKOCH Order of Merit Award Year 2016 SKOCH Foundation, Delhi.
- » Winner Best Indian Social Enterprise Award -2019 from Action for India Foundation & IIT, Hyderabad.
- » Award winner Best Women Entrepreneur Award 2019 from Action for India Foundation & IIT, Hyderabad.
- » Winner AABI TORCH AWARD for PROMISING ENTREPRENEUR 2020 from Asian Association of Business Incubation supported by China Torch High Technology Industry Development Centre & Shanghai Technology Innovation Centre, China.

START-UP DESCRIPTION

AI-GENIX invents, designs, and develops unique, patented technologies for crop protection and sustainable farming, eliminating the need for toxic chemical pesticides. These technologies reduce pesticide costs to zero, increase crop yields by 40%, and protect beneficial insects like honeybees. The AI-enabled machine releases multiple signals, including visual patterns, light frequencies, and acoustic signals, to attract harmful insects, while generating alarm signals to repel beneficial insects. The solution is tested and evaluated by ICAR-KVK, Ankur seeds, ITC Limited, Aries Agro Limited

IMPACT

AI-Enabled technology reduces toxic chemical use, protects marine life and honey bees, and lowers greenhouse gas emissions in agriculture.

END USERS/CUSTOMERS:

Farmers, corporates

FUND RAISED

35 Lacs from Meity, GOI

BUSINESS/REVENUE MODEL

Revenue by sale of physical products

CATEGORIES

- » Plant Protection



Registered name:

Allywing Solutions Pvt. Ltd.

Brand name of the start-up:

Allywing

Founder(s) Name:

Gaurav Singh

Operational in:

Uttar Pradesh, Bihar

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 1: President Appreciations Award- In 2006 Awarded by President of India Dr. A.P.J. Abdul kalam at President House, New Delhi.
- » 2: Nation Conference on Tribal Development and Rural Entrepreneurship Award 2021-Awarded for providing innovative technological interventions for lift irrigation at Nation Conference on Tribal Development and Rural Entrepreneurship held on 22-23 March 2021 at JUT Ranchi by Vice Chancellor- Jharkhand University of Technology Ranchi.

FUND RAISED

No funds were raised; however, we received a grant of INR 2,000,000 (Twenty Lakhs) from the BIRAC IKP Agri Grand Challenge.

BUSINESS/REVENUE MODEL

B2C,B2B,B2G / Manufacturing & sale, non exclusive licensing, renting.

START-UP DESCRIPTION

Allywing Solutions develops innovative technologies to enhance daily life across agriculture, health, and engineering sectors. Their flagship solution, the Paddy Transplanter, revolutionizes paddy transplantation by offering a six-row planting system that boosts productivity and reduces labor costs. Powered by a fuel-efficient Honda engine, it ensures precision planting, minimal soil disturbance, and is easy to maintain. Ideal for small to medium-sized farms, it provides significant time, labor, and cost savings while promoting sustainable farming practices.

IMPACT

Allywing's Paddy Transplanter reduces transplantation time by 90%, labor by 80%, cuts costs, and increases yield through precision planting.

END USERS/CUSTOMERS:

- » B2C: Small and marginal farmers.
- » B2B: NGO, FPO, Private Organizations.
- » B2G: Government departments under Farmer Welfare schemes.

CATEGORIES

- » Farming/Production



Registered name:

Animeta AgriTech Private Limited

Brand name of the start-up:

YourFarm

Founder(s) Name:

Vijayakumar Ramalingam

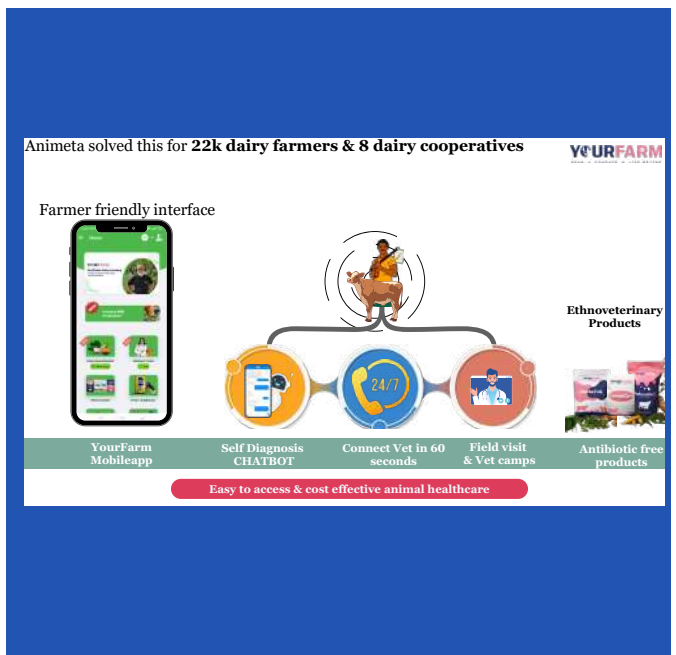
Operational in:

TamilNadu, Maharashtra & Punjab

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» Krishimangal Program- Social Alpha, Best Starup- TIECON, Chandigarh, Winner, Startup Roadshow, IIT-Patna

FUND RAISED

\$35900- iHub-AWADH, IIT-Ropar

BUSINESS/REVENUE MODEL

Revenue through sale of animal healthcare & nutritional products.

START-UP DESCRIPTION

Animeta AgriTech offers an auto-disease diagnosis chatbot for dairy farmers, accessible via WhatsApp and Android apps. The tool provides ethnoveterinary treatment recommendations for livestock ailments using natural language processing to interpret symptoms described in regional languages. By bridging the gap between farmers and veterinary expertise, the startup aims to improve animal healthcare access in remote areas.

IMPACT

Animeta boosts dairy farm income by Rs.1500 per cow through accessible auto-disease diagnosis and treatment.

END USERS/CUSTOMERS:

Dairy farmer

CATEGORIES

» Allied activities



Registered name:

Aqualine Bhungru

Brand name of the start-up:

Aqualine Bhungru / Waterline

Founder(s) Name:

Rathin Bhadhra

Operational in:

Jharkhand, M.p, Chhattisgarh

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» lit Kharagpur 2024, Rotary International 22/23, Niti Aayog 2023, Mohua Amrit 2.0 2022

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

B2G, B2B

START-UP DESCRIPTION

AQUALINE BHUNGRU's "Pani Ki Kheti" technology uses geo-hydrology to store rainwater in the subsurface, enhancing groundwater reserves for domestic, agricultural, and industrial use. Requiring a minimum 6 feet x 6 feet surface area, the technology percolates excess rain or stormwater through 4-10 inch pipes into the earth, ensuring water availability during lean periods. It guarantees irrigation for crops and helps de-flood farmlands during monsoons. Recognized by Jharkhand Government and NITI Aayog, each unit provides 1-5 million liters of water annually, depending on geological conditions.

IMPACT

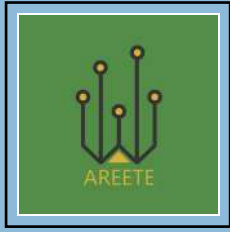
AQUALINE BHUNGRU ensures water availability, reduces flooding, mitigates drought, enhances groundwater quality, and supports farmers' livelihoods.

END USERS/CUSTOMERS:

GOVERNMENT, PUBLIC, CSR, NGO, BUILDING APPARTMENTS, ETC

CATEGORIES

» Farming/Production



Registered name:

Areete Business Solutions Private Limited

Brand name of the start-up:

Ayushman Cowfit

Founder(s) Name:

Srinivas Subramanian, VS Shridhar and
Sriram Subramanian

Operational in:

Maharashtra, Gujarat, Punjab, Haryana,
Karnataka, Telangana, Rajasthan, Goa, UP

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual
operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 1. Winner Maharashtra Start-up Week 2022.
- » 2. AABI Torch Award for Best Nominee (Thailand) 2023.
- » 3. Top 10 startups in GPAI Summit 2023.
- » 4. 75th Republic Day Parade our solution was part of the tableau of Electronics and Telecommunication Ministry 2024.

FUND RAISED

INR 654 Lacs

BUSINESS/REVENUE MODEL

Sale of AI powered collar based IoT devices.

START-UP DESCRIPTION

Areete is an AI startup focused on developing digital solutions for the dairy sector to improve cattle health, productivity, and farmers' well-being. Their solution, Ayushman Cowfit, revolutionizes cattle care with an AI-powered, collar-based IoT system. Designed for comprehensive herd management, it monitors essential factors such as heat cycles, activity, rumination, temperature, and behavior in real-time. Accessible through a Dashboard/Mobile App, it prioritizes cattle well-being and enhances productivity.

IMPACT

Reduced breeding cycles, improved cattle health, and increased milk yield, enhancing overall farm productivity.

END USERS/CUSTOMERS:

Reduced breeding cycles, improved cattle health, and increased milk yield, enhancing overall farm productivity.

CATEGORIES

- » Allied activities

**Registered name:**

ArkaShine Innovations Pvt Ltd

Brand name of the start-up:

ArkaShine Innovations Pvt Ltd

Founder(s) Name:

Dr. Sudha Ramesh Karbari

Operational in:

Karnataka, Maharashtra

Technology Readiness Level (TRL):

TRL 6. Early stage validation (tech demonstration in operational environment)

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

» BIG BIRAC 2022

FUND RAISED

73 Lacs

BUSINESS/REVENUE MODEL

Product sale & services (subscription model for crop recommendation & testing fee)

START-UP DESCRIPTION

ArkaShine Innovations specializes in affordable soil testing solutions through its AI-integrated SoilSaathi device, a portable, backpack-sized lab that delivers comprehensive soil analysis (pH, EC, macronutrients, micronutrients) within 20 minutes. The technology eliminates the need for laboratory infrastructure, enabling on-site testing in remote areas. SoilSaathi's cloud interface stores results for tailored fertilizer and crop recommendations, promoting sustainable nutrient management. Designed for rugged field conditions, the device features self-cleaning modules and intuitive controls, empowering farmers to optimize inputs and improve yields through data-driven insights.

IMPACT

Increased yield and improved input efficiency through balanced nutrient management for optimal soil health and productivity.

END USERS/CUSTOMERS:

Farmer

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production



Registered name:

Arthro Biotech Private Limited

Brand name of the start-up:

Arthro Biotech

Founder(s) Name:

Praveen K Sappa

Operational in:

Telangana

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » CliMAFix Summit 2023- Received an award and monetary assistance of INR 50,000/- in recognition to tackling climate change.
- » IKMC 2023- Runner up for building a sustainable biomanufacturing for diving sustainable future.

FUND RAISED

60000000 INR (Angel Funds)

BUSINESS/REVENUE MODEL

Sale of products (animal feed, pet feed, biomolecules, bioinputs, EPNs etc..)

START-UP DESCRIPTION

Arthro Biotech utilizes black soldier fly larvae to convert low-value agricultural residues into protein-rich animal feed and biopesticides. The startup develops specialized diets from plant-based organic waste to breed larvae, which are processed into protein meal and oil for aquaculture and livestock. Arthro also explores biomolecule extraction from insect biomass for applications in nutraceuticals, cosmetics, and biopharma, aiming to create a circular economy model for agricultural byproducts.

IMPACT

Arthro Biotech produces 30 tons of insect ingredients monthly, conserves 120 tons of wild marine fish by replacing fishmeal with BSFL meal in animal feed diets.

END USERS/CUSTOMERS:

Animal feed industry

CATEGORIES

- » Sustainability and waste management
- » Allied Activities



Registered name:

Artion Rain and Clean Environment Technology Pvt Ltd

Brand name of the start-up:

ArtION

Founder(s) Name:

Dr Neeta Doshi

Operational in:

Maharashtra, Gujrat, Delhi

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 1. Champions of Change- WIPRO- 2008
- » 2. Best Researcher- Women Entrepreneur Empowerment (WEE)- IIT Delhi, FITT, DST-2020
- » 3. Best Business case-Venture Centre Pune-2022
- » 4. Best Innovation and Technology- FICCI Delhi-2022
- » 5. Me Mazya Aai Babancha Abhimaan, Tumchi Mulgi Tumcha Abhimaan- Indian Medical Association Baramati-2022
- » 5. Baramati ICON- Environmental Forum India, Baramati, 2023

START-UP DESCRIPTION

ArtION specializes in innovative environmental solutions, utilizing its patented ION technology to address critical issues like air pollution, fog dispersion, and agricultural yield enhancement. By releasing charged particles, the technology catalyzes precipitation, improving visibility, reducing harmful airborne particles, and promoting pesticide-free farming. Collaborating with prestigious institutes like IIT Delhi and IMD Pune, ArtION's products are validated and certified, creating sustainable, impactful solutions for a cleaner, healthier, and more productive environment.

IMPACT

Omnion reduces energy use by 30%, boosts agricultural yields by 20%, increases profits by 50%, and improves air quality by reducing pollutants like PM2.5, harmful gases, and pathogens.

END USERS/CUSTOMERS:

- » 1. Agriculture- Polyhouses, Hydroponics, Vertical farming, Aeroponics, Agriculture Universities/Institutes, FPO, Farm mechanization shop
- » 2. Air Pollution-Municipal corporation, Societies, Hospitals, Schools, Malls, Public places
- » 3. Fog Dispersion- Airports, logistics, tunnels, highways
- » 4. Artificial Rain using Ion seeding-Govt , NGO, rich farmers

FUND RAISED

Bootstrapped

BUSINESS/REVENUE MODEL

B2B, B2C, B2G

CATEGORIES

- » Farming/Production

**Registered name:**

Aviac Technologies Private limited

Brand name of the start-up:

Aviac

Founder(s) Name:

Sachin Gattu

Operational in:

Telangana

Technology Readiness Level (TRL):

TRL 7. Late-stage validation (prototype runs in operational environment)

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

» No

FUND RAISED

30,000 US\$ - IIT-Hyderabad

BUSINESS/REVENUE MODEL

Hardware sales, software monetisation (freemium, subscription & pay-as-you-go), Tailoring complex solutions for industry specific needs.

START-UP DESCRIPTION

Aviac has developed state-of-the-art imaging applications for agriculture, featuring an in-house multispectral imager for comprehensive crop health assessments. This technology enables precision surveillance and monitoring, helping farmers optimize yield and practice residue-free cultivation. By leveraging TinyML, Aviac effectively mitigates pests and diseases, protecting crops and boosting profitability. The company aims to provide advanced imaging solutions to small and medium-scale farmers and agri-value chain partners, driving sustainable and efficient agricultural practices.

IMPACT

Enhances yield accuracy by optimizing crop health and mitigating pests, boosting profitability.

END USERS/CUSTOMERS:

Large scale farmers and governments

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Harvesting/QC
- » Processing/Value Addition
- » Food manufacturing



Registered name:

BomLife Private Limited

Brand name of the start-up:

BomLife

Founder(s) Name:

Amlan Datta

Operational in:

Uttarakhand, Uttar Pradesh, Madhya Pradesh, Telangana, Tamil Nadu, Assam, West Bengal

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » BIRAC IKP Agri Grand Challenge-II (2023-24)
- » SocialAlpha Agritech Challenge 2.0 (2021)
- » Top 15 - Land Accelerator South Asia (2022)

FUND RAISED

StartUp India Seed Fund (20Lakh Debt), BIRAC IKP Agri Grand Challenge Stage-II (50Lakh Grant BIRAC +50Lakh Debt Samunnati)

BUSINESS/REVENUE MODEL

Sale of products (Biofertilizers, biostimulants, bio pesticides), B2B, B2C

START-UP DESCRIPTION

BomLife is an agri-tech startup providing IP-protected biofertilizers, bio-stimulants, and bio-control agents for sustainable, chemical-free agriculture. Their technology enhances plant nutrition, health, and growth while managing pests and diseases. The regenerative approach improves soil fertility by increasing microbial and earthworm populations, boosting organic carbon levels. BomLife offers solutions that deliver yields comparable to conventional farming while being carbon-positive. It is incubated at institutions like IIT Kanpur, AgHub, and IISER.

IMPACT

Higher farmer incomes, nutritious food for consumers, healthier lives and improved environment through reduced emissions and toxic chemicals.

END USERS/CUSTOMERS:

Farmers are our end user but we sale through channel partners like aggregators, industry, NGO, FPO etc but beneficiary is the entire value chain from farmer to consumer and the environment as a whole.

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Plant Protection

**Registered name:**

BOS TAURUS FARM EQUIPMENT Pvt Ltd

Brand name of the start-up:

Bos Taurus

Founder(s) Name:

Shashirath Reddy

Operational in:

Not yet operational but is targeted to start in South India

Technology Readiness Level (TRL):

TRL 5. Late-stage research for technology validation in operational environment

START-UP DESCRIPTION

Bos Taurus is an agri-tech startup developing advanced AI-integrated electric tractors and electric power weeders. Their autonomous tractors feature Auto-Trac steering, precise path mapping, and on-crop pesticide spraying. Powered by an advanced electric powertrain, these machines are designed for sustainable farming. With capabilities to detect crop diseases and operate without drivers, Bos Taurus aims to revolutionize agriculture by enhancing productivity, reducing manual labor, and promoting eco-friendly farming practices.

IMPACT

Reduces diesel costs and emissions with AI-integrated electric tractors for precision farming.

END USERS/CUSTOMERS:

Farmers and Farm equipment rental companies

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

» No

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Sale of farm tractors, equipments & rental services.

CATEGORIES

- » Farming/Production
- » Plant Protection



Registered name:

Buzzworthy Ventures Private Limited

Brand name of the start-up:

Humble Bee

Founder(s) Name:

Monika Shukla

Operational in:

Karnataka, Uttar Pradesh, Jharkhand, Bihar, Odisha

Technology Readiness Level (TRL):

TRL 6. Early stage validation (tech demonstration in operational environment)

START-UP DESCRIPTION

HUMBLE BEE is catalyzing a Golden Revolution by enabling rural and forest-based tribal communities to adopt scientific beekeeping. Through the BEEKind app and BEEMitra network, it offers end-to-end support including quality inputs and assured buyback. Salient features of the app include vernacular access via BHASHINI (ASR, TTS), AI-powered decision support for hive management, disease diagnosis, migration, and community/expert connect. It promotes sustainable, traceable honey production from diverse Indian flora, ensuring better livelihoods and ecological balance.

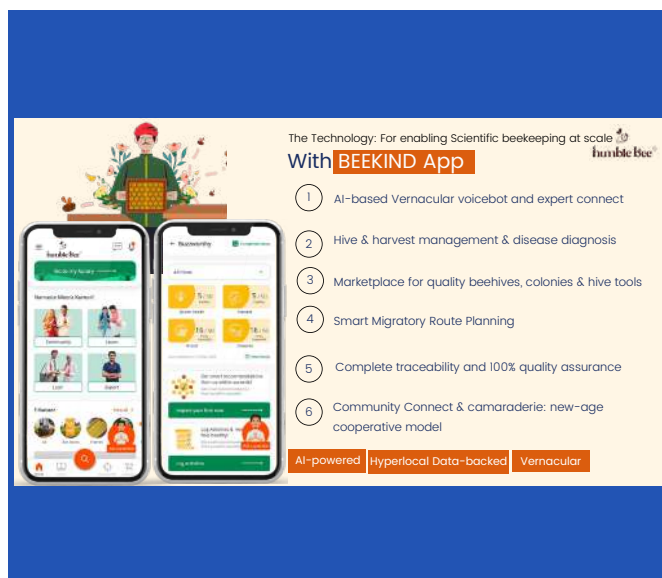
IMPACT

Sustainable monthly earnings for beekeepers, enhanced crop yields through pollination, improved biodiversity, carbon sequestration, and increased climate resilience.

END USERS/CUSTOMERS:

Small-scale beekeepers and farmers

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Among the top 5 global startups selected by CGIAR's ICTforAg Inspire Challenge 2023 for potential to provide tailored services and information to women beekeepers and increase their climate resilience
- » Winners- Climate Smart Business Challenge Facility by Aga Khan Foundation and GIZ
- » Among the top 20 organizations from across the world selected by Meta for the Llama for AI grants program for use of AI in beekeeping

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Production & sale of beekeeping inputs, Precision engineered beehives, tools & colonies. Buyback contracts of honey & hive products.

CATEGORIES

- » Allied activities



Registered name:

Capsber Global Agro Private Limited

Brand name of the start-up:

Capsber Agriscience

Founder(s) Name:

Mr. Manoj Kumar Rupa, Mr. Gavaskar Jayakanthan and Dr. Priti Khalkho

Operational in:

Karnataka, Uttar Pradesh, Kerala, Andhra Pradesh, Tamil Nadu, Telangana, Maharashtra

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

START-UP DESCRIPTION

Capsber Agriscience is an innovative company dedicated to sustainable farming solutions through advanced research and technology. By harnessing the potential of natural soil microbiomes and their metabolites, Capsber enhances crop yield, improves soil health, and promotes eco-friendly agricultural practices. Their Next-Gen Microbiome Technology complements synthetic inputs, empowering farmers globally to boost productivity while supporting national food security and environmental sustainability.

IMPACT

- » 55% reduction in NPK requirement
- » 30% reduction in chemical pesticides
- » 27% increase in yield
- » 35% increase in quality of produce
- » 20% reduction in labour

END USERS/CUSTOMERS:

Farmers, FPOs & FPCs

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 1.National Startup Awards – 2022 in Agriculture Productivity
- » 2.National Startup Awards – 2022 in Rural Impact by Startup India
- » 3.Startup of the year (The Smart Bio awards) from Karnataka State Department of IT & BT – 2022 Govt. of Karnataka
- » 4.National Bio Entrepreneurship Competition (NBEC 2022) awarded winner by C- CAMP & BIRAC.
- » 5.Outstanding Entrepreneur – Insect Environmentalist Award 2022 by Plant Protection Advisor (Govt. of India).

FUND RAISED

INR. 0.82 Cr till date. BIRAC BIG, K- Elevate, BIRAC Agri grand challenge, Krishi Mangal CISCO CSR

BUSINESS/REVENUE MODEL

Revenue through sale of products.

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Plant Protection



Registered name:

CarbonMint India Private Limited

Brand name of the start-up:

CarbonMint

Founder(s) Name:

Venkat Pindipolu

Operational in:

AP, Karnataka, UP, Maharashtra, Uttara-khand

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» None

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Subscription model for digital platforms, consultation services, data driven insights & analytic solutions.

START-UP DESCRIPTION

CarbonMint is a pioneering company transforming sustainable agriculture through blockchain-powered food labeling, token-based incentives, and decentralized governance. Their solution enables transparent product tracking via QR codes, enhances trust, and incentivizes farmers to adopt regenerative practices. By addressing certification complexities, financial strain, and market trust issues, CarbonMint builds a self-sustaining ecosystem that supports eco-friendly farming and financial growth, promoting a climate-conscious and resilient agricultural marketplace.

IMPACT

Reduction in carbon emissions through incentivized regenerative practices and transparent, blockchain-enabled sustainable farming systems.

END USERS/CUSTOMERS:

Agri Businesses who are working farmers directly

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Harvesting/QC
- » Sustainability and waste management



Registered name:

Chimertech Private Limited

Brand name of the start-up:

Chimertech

Founder(s) Name:

Dr Ragul Paramasivam

Operational in:

PAN INDIA & NEPAL

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » GFT Startup Summit 2020 Veterinary Startup of the Year
- » CONQUEST 2021 ICERTIS's Top 18 Startup
- » India Fund Feast 2020 Top 28 Fundable Startups 2020
- » BREC-NBEC 2019 ID Capital Pvt.ltd Investment Opportunity
- » BREC-NBEC 2019 Agrotech Ankur Seeds Cash Prize - 5 Lakhs INR

FUND RAISED

INR 2.1 CR

BUSINESS/REVENUE MODEL

Sale of Mastitis detection device & subscription, sale of mastitis management products.

START-UP DESCRIPTION

Chimertech pioneers dairy innovation with Quadmastest, a reagent-free mastitis detection device designed for early subclinical mastitis detection in cattle. Using EC-based variation from teat to teat, the device offers a reliable method to detect mastitis with 99.9% sensitivity and 99.4% specificity, matching the gold standard Somatic Cell Count. It delivers real-time results within 48 hours of infection, requiring no consumables or expertise, thus reducing milk wastage, treatment costs, and reliance on veterinary services.

IMPACT

Quadmastest enables early mastitis detection, leading to reduced antibiotic use and more successful treatments.

END USERS/CUSTOMERS:

Dairy Farmers. Veterinarians

CATEGORIES

- » Allied activities

**Registered name:**

Contrivation Labs Pvt Ltd

Brand name of the start-up:

Calyxtract

Founder(s) Name:

Ramesh Rao

Operational in:

Karnataka, Telangana, Andhra Pradesh,
Madhya Pradesh

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready
for full-scale application)

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

» ELEVATE

FUND RAISED

INR 220 Lakhs (ARTPARK @ IISc)

BUSINESS/REVENUE MODEL

Equipment sales, Pay-as-you-use, Machine rentals,

START-UP DESCRIPTION

Contrivation Labs, specializes in post-harvest automation solutions for Indian agriculture. Their flagship product, Calyxtract, is an advanced, fully automated system designed to separate the calyx and stem from chili pods without causing damage. Utilizing edge computing, image processing, and advanced control algorithms, Calyxtract employs electro-mechanical and pneumatic actuators to efficiently and precisely separate the pods, improving yield and revenue for farmers while minimizing damage.

IMPACT

Automates post-harvest processing of chili to improve efficiency, quality and reduce labor.

END USERS/CUSTOMERS:

Food Processing Companies, Spice Exporters, Spice Traders, FPO

CATEGORIES

» Processing/Value Addition

**Registered name:**

Cropwings technologies

Brand name of the start-up:

Cropwings, OpenMarket.Ag

Founder(s) Name:

Manjunath Saginala

Operational in:

Andhra Pradesh, Telangana, Maharastra, Karnataka

Technology Readiness Level (TRL):

TRL 6. Early stage validation (tech demonstration in operational environment)

PRODUCT IMAGES:**START-UP DESCRIPTION**

Cropwings is an information and technology platform that assists farmers by providing technology-driven solutions for better yields and informed market decisions. Utilizing artificial intelligence and data, it offers real-time information, helps farmers select the right inputs, and provides drone-assisted spraying solutions. The platform also delivers market updates and makes farmers' produce visible for pooling to achieve better price realization. With AI-driven algorithms, it ensures enhanced user experience and decision-making through app and media support.

IMPACT

Provides convenient AI-driven advisories on input selection, drone spraying, and market trends.

END USERS/CUSTOMERS:

Farmers, dealers, distributors, commission agents, organisations

MAJOR AWARDS/RECOGNITION

» No

FUND RAISED

500000/ Dr Kishore Nutalapati

BUSINESS/REVENUE MODEL

Platform fee, B2B projects, value added services & subscriptions.

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Markets



Registered name:

Dhi Sathi Robotics Private Limited

Brand name of the start-up:

Farm Sathi

Founder(s) Name:

Susanth Masana

Operational in:

Andhra Pradesh, Telangana, Maharashtra, Karnataka

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 1. Awarded Nidhi Prayas Grant from ICAR-NAARM, Hyderabad. - 2023
- » 2. Awarded PUSA KRISHI Grant from ICAR-IARI, Delhi. - 2023
- » 3. 1st Runner Up in Lemon Ideas Season 09 - 2023
- » 4. Featured in Andhra Pradesh's Prestigious News Magazine - 2023

FUND RAISED

2CR. INR

BUSINESS/REVENUE MODEL

B2B franchise model 7 Robotics as a service.

START-UP DESCRIPTION

Farm Sathi offers a fully electric, 12HP compact robo-tractor that helps farmers increase profits by 30%. Designed for horticulture crops, these tractors are equipped with robotic features for easy remote or auto navigation and run on clean energy. Farmers and farm entrepreneurs can purchase the robots to establish franchises, providing annual farm maintenance services. The tractor's compact design is ideal for tight spaces, replacing manual labor and enhancing farm operations efficiently.

IMPACT

Achieving cost savings of 50% or more on farm operations.

END USERS/CUSTOMERS:

Farmers of Horticulture Crops with a min 3.5ft. spacing. All majority fruits and vegetables.

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection

**Registered name:**

Drogo Drones Private Limited

Brand name of the start-up:

Drogo Drones

Founder(s) Name:

Bala Yeshwanth Krishna Bonthu

Operational in:

Telangana/Andhrapradesh/Karnataka/Mp/
Up/Tamilnadu/Maharashtra/Delhi/Bihar

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual
operational environment

START-UP DESCRIPTION

Drogo Drones, developed the flagship product Krishi 3 Pro, India's highest endurance agriculture spraying drone. With 32 minutes of flight time and the ability to spray up to 35 acres per day, it optimizes large-scale farming operations. Equipped with Terrain sensors, Volumetric Spray sensors, and Obstacle Avoidance Sensors, the drone ensures precise spraying, minimizes waste, and enhances safety. Live streaming and Buddy Box Integration improve operational efficiency, making it a game-changer for sustainable farming.

IMPACT

Drogo Drones improves crop yields, reduces costs, promotes sustainable practices, and boosts income for small farmers, rural youth, and agri-entrepreneurs.

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

OEM of Drones, sale & services

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Best Small Scale Entrepreneur of the Year' by the esteemed industry body HMA (Hyderabad Management Association), APCMO Appreciation for the Exemplary Flood Relief Efforts in Vijayawada

END USERS/CUSTOMERS:

Drogo Drones is committed to transforming the agricultural landscape for small and marginal farmers, rural youth, FPOs, and agri-entrepreneurs through precision agriculture. By leveraging drone technology, we empower farmers with tools that enhance productivity, boost income, and reduce health risks from agrochemical exposure. This model has the potential to create over 5 lakh agri-entrepreneurs, particularly among rural youth, providing new opportunities for growth and employment. Additionally, FPOs will benefit from the scalability and efficiency of drone solutions. Indirectly, consumers will enjoy safer, chemical-free produce, while the environment, including various species, will thrive from reduced agrochemical use. This integrated approach supports farmers, the rural economy, and the broader ecology.

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection



Registered name:

Ekosight Technologies Private Limited

Brand name of the start-up:

Soil Doctor

Founder(s) Name:

Soil Doctor

Operational in:

Uttar Pradesh, Haryana, Punjab, Karnataka, Andhra Pradesh, Telangana

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 1. Winner of Nidhi Prayas from AIC Banasthali
- » 2. Winner of HST-CPS PRAYAS Organised by IIT Mandi
- » 3. Winner of MSME Idea Hackathon
- » 4. Winner of Agri Grand challenge organised by C-CAMP
- » 5. Winner of FASAL COR OCP 1.0 Organised by STPI
- » 6. Winner of Chunnauti 3.0 organised by STPI
- » 7. Semi- finalist in Agri Eureka challenge organised by MANAGE
- » 8. Successfully completed RKVY Raftaar Cohort from CCS NIAM
- » 9. Successfully completed dream builder course organised by Thunderbird school of global management, Arizona state university and Freeport McMoran foundation.

START-UP DESCRIPTION

Ekosight has developed the Soil Doctor, a portable, plug-and-play soil testing device that enables on-the-go analysis of key soil parameters like N, P, K, pH, EC, and OC. Delivering results within an hour, it empowers farmers with real-time, actionable insights to optimize soil health and crop yield. The technology integrates IoT, optical sensors, AWS cloud, data analytics, and agronomy expertise, offering high accuracy, ease of use, and minimal chemical usage.

IMPACT

A farmer in Uttar Pradesh saw a 25% wheat yield increase using Ekosight's soil testing device, leading to economic gains.

END USERS/CUSTOMERS:

Farmers, FPOs, NGOs, B2B Companies

FUND RAISED

\$1,34,000

BUSINESS/REVENUE MODEL

Sale of soil testing kit, consumables & services.

CATEGORIES

- » Pre production (seeds, fertilizers)



Registered name:

Elai AgriTech Pvt Ltd

Brand name of the start-up:

Elai

Founder(s) Name:

Mr.Jital Shah

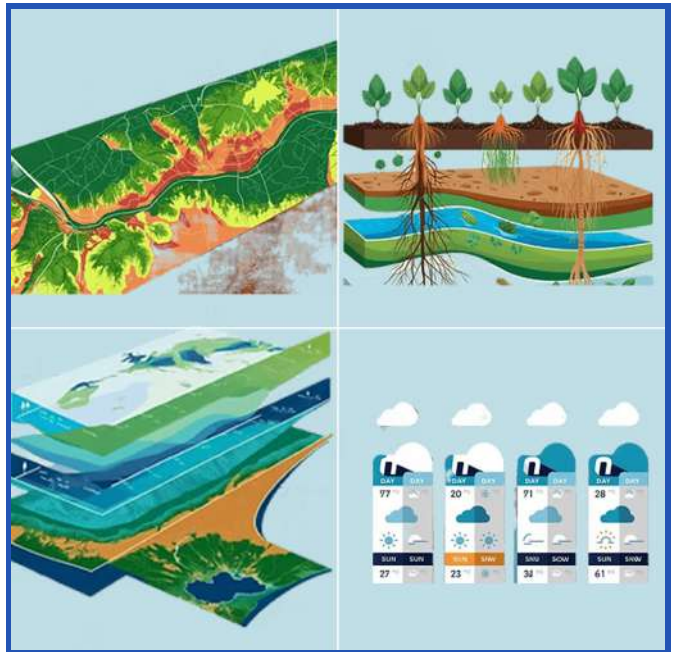
Operational in:

Maharashtra and Gujarat

Technology Readiness Level (TRL):

TRL 6. Early stage validation (tech demonstration in operational environment)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» Harvard Digital Lab Recognition

FUND RAISED

Bootstrapped

BUSINESS/REVENUE MODEL

Revenue through scalable subscriptions, corporate solutions & Agri-fintech services for banks, NBFCs, insurers.

START-UP DESCRIPTION

ELAI Agritech offers a cutting-edge platform that enhances agricultural finance through real-time farm monitoring, AI-driven analytics, and remote sensing. Integrating multispectral, hyperspectral, and radar satellite data, the platform analyzes NDVI, MSAVI, and soil moisture to deliver accurate crop health, yield predictions, and income estimations. With over 90% accuracy, it empowers lenders with reliable credit risk assessments and provides actionable insights to farmers, boosting productivity, financial inclusion, and sustainable agricultural growth.

IMPACT

Elai AgriTech improves loan recovery rates by up to 25% through data-driven, real-time crop insights, reducing lending uncertainty.

END USERS/CUSTOMERS:

Banks and Non-Banking Financial Companies (NBFCs), Government Agencies, Corporate Farming Companies, Microfinance Institutions, Insurance Companies, Agricultural Input Suppliers, Cooperative Societies, Renewable Energy Companies, Agri-tech Startups, Food and Beverage Companies

CATEGORIES

- » Farming/Production
- » Harvesting/QC
- » Financial Services



Registered name:

Farmitopia Pvt Ltd

Brand name of the start-up:

Farmitopia

Founder(s) Name:

S Jaikumar & Sreekala

Operational in:

Karnataka, Telangana, Andhra Pradesh, Tamil Nadu, Odhisa, Delhi, Haryana

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Best Performing Start Up- RAFTAR GoI, Finalist in ELEVATE (MANAGE)

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Sale of products(inputs) & subscription based services.

START-UP DESCRIPTION

FARMITOPIA is an innovative Agritech company offering a farmer-centric digital platform, Cropmint+, which provides location-specific crop models, tailored agronomy advice, and differentiated inputs and its right use at the right crop stages. The platform addresses key challenges like lack of real-time farm data, limited access to timely agronomy advice, high production costs, and inconsistent crop productivity. By focusing on sustainability and profitability, FARMITOPIA helps farmers optimize practices, reduce costs, and improve overall farm performance.

IMPACT

Increased Yield (15-20)%, Reduced Cost of cultivation (10-12)% and 20% increase in income

END USERS/CUSTOMERS:

Farmer, Aggregator, Input Provider, FPO, CBBO

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection



Registered name:

FarmOR Agri Solutions Private Limited

Brand name of the start-up:

FarmOR

Founder(s) Name:

Sai Teja Duggempudi

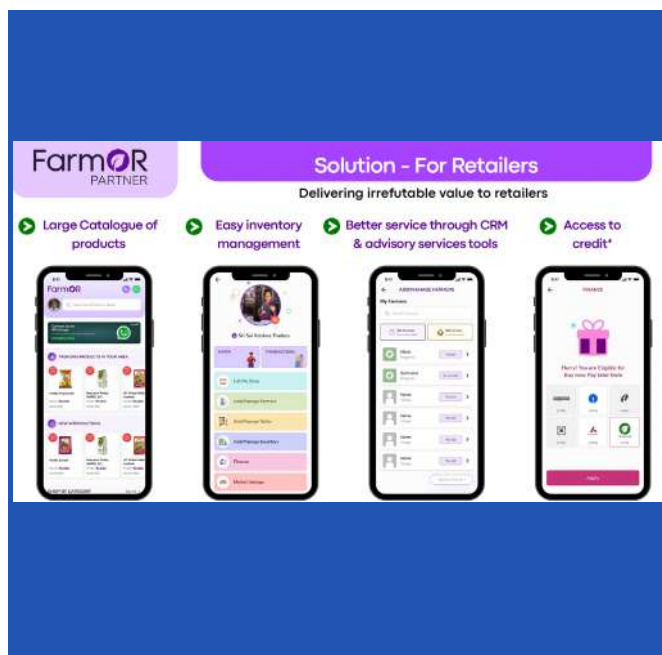
Operational in:

Telangana, Andhra Pradesh, Karnataka (minimal)

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» Winner, AgFoodTech Innovation challenge, 2023
Mission 10x, 2023

FUND RAISED

2 Million INR, A-IDEA NAARM, NIDHI SSS Seed fund at 7.2 Crore valuation

BUSINESS/REVENUE MODEL

B2B marketplace for farm inputs, commission model.

START-UP DESCRIPTION

FarmOR connects manufacturers, retailers, and farmers through seamless technology and data-driven insights for sustainable and efficient practices. FarmOR Partner App: A platform that digitalizes sourcing and operations for local retailers, acting as the primary point of contact for farmers in the agri-input space. The app also functions as a CRM for retailers. Seller Dashboard: A tool for manufacturers to efficiently manage supply and quality issues from retailers while overseeing their farmer network.

IMPACT

The impact is defined by the total number of retailers and FPOs integrated onto the platform.

END USERS/CUSTOMERS:

Retailers, FPOs, Agri input companies

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection



Registered name:

Farms2Fork Technologies Private Limited

Brand name of the start-up:

cultYvate

Founder(s) Name:

Tigali Mallesh Mariappa

Operational in:

Punjab, Haryana, Uttar Pradesh, Tamil Nadu, Andhra Pradesh

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » MSME, a central government initiative awarded a grant to cultYvate in April 2017, to develop a working prototype to be taken to the market.
- » CISCO & CIIE provided a grant to cultYvate in 2019-2020 to further enhance and commercialize cultYvate's IoT solutions.
- » Villgro along with Hindustan Unilever Foundation (HUF) awarded a grant & mentoring support to cultYvate in 2019-2020, for the implementation of AWD IoT sensors for irrigation management.
- » NITI Aayog in 2021 has recognised cultYvate's women leadership in the driving seat working to make a change. Our hardware and software solutions are improving farm productivity enabling farmers to earn more with every drop and piece of cultivable land.

START-UP DESCRIPTION

CultYvate is an Agri-Tech start-up using IoT, AI, and ML to enhance precision agriculture. By optimizing water usage, reducing overuse of chemicals and fertilizers, and improving soil health, cultYvate helps farmers reduce costs and increase yields by 5-15%. Their technology has saved up to 50% of water and reduced farm input costs by 20%. Focused on crops like paddy, wheat, sugarcane, and horticulture, cultYvate supports sustainability and helps achieve key UN SDGs.

IMPACT

Saving water and energy, reducing fungicide usage, and increasing yields.

END USERS/CUSTOMERS

Our primary focus is on empowering small and mid-sized paddy farmers in India. We target farmers cultivating between 4 and 7 acres of land and relying on tubewells for irrigation. This segment represents a significant portion of the agricultural landscape in India.

FUND RAISED

We have raised funds of about \$800,000. Our main investors are Letsventure, Siriusone and The Chennai Angels network.

BUSINESS/REVENUE MODEL

Revenue through sale of devices, advisory services & full stack solutions for carbon programs.

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Sustainability and waste management



Registered name:

Frozenhive

Brand name of the start-up:

Frozenhive

Founder(s) Name:

Gagan Deep K V

Operational in:

Maharashtra

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» No

FUND RAISED

100% equity with founding members.

BUSINESS/REVENUE MODEL

Direct sale of cold storage solutions & rental services.

START-UP DESCRIPTION

Frozenhive offers an innovative multi-room solar backup cold storage solution for perishable agricultural produce at its source location. This facility helps prevent quality deterioration and supports multiple ownership models, providing Indian farms with efficient and sustainable cold storage options.

IMPACT

Impact is measured in tons's of storage capacity increased

END USERS/CUSTOMERS:

FPO and Farmers

CATEGORIES

» Storage & logistics

**Registered name:**

Fuselage Innovations Pvt Ltd

Brand name of the start-up:

Fuselage Innovations Pvt Ltd

Founder(s) Name:

Devika Chandrasekharan, Devan Chandrasekharan

Operational in:

Kerala, Tamilnadu, Karnataka, Telangana, Andrapradesh

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

- » DST NIDHI PRAYAS Grant: Our project received a grant through the Department of Science and Technology's NIDHI PRAYAS program, further bolstering our initiatives.
- » Agni Invest India Listing: Our project was listed as an innovation on Agni Invest India's Make in India initiative portal, highlighting our contributions to the agricultural sector.
- » UNDP Recognition: The United Nations Development Program recognized our project within the framework of sustainable development goals (SDG), particularly focusing on SDG Zero Hunger, and awarded us a grant for prototype development.

FUND RAISED

Bootstapped

BUSINESS/REVENUE MODEL

Direct sales & subscription models (B2B, B2G, B2C, B2Nonprofit)

START-UP DESCRIPTION

Fuselage Innovations is a drone-tech startup specializing in UAV, IoT, and AI solutions to enhance agricultural efficiency and sustainability. The company focuses on farmland mapping, diagnostics, and addressing post-natural calamity challenges, offering a digital farmland model that provides access to agronomy expertise. Its flagship product, the FIA QD30, features a 30-liter tank, advanced seed spreader, precision seed shooter, and firefighting capabilities, promoting sustainable agriculture and food security.

IMPACT

The integrated operation of Nireeksh and FIA drones increase crop yields by 20-40%, reduce inputs by 70%, and ensure 99% bioagent success.

END USERS/CUSTOMERS:

Farmers, Farmers Producing Companies, Food Processing Companies,, Government Organisations, Pesticide and fertilizer companies, Precision Farming Service Providers

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection



Registered name:

Future Step Enterprise LLP

Brand name of the start-up:

Vapra

Founder(s) Name:

Pavani V S V Lolla

Operational in:

We have our base in Hyderabad but we ship our products in 24 states of India.

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Best recycler award- GHMC 2023
- » Best sustainable startup award by GOGA -2023
- » Best sustainable practices award by ShethePeopleTV-2023

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Product sale (composting units, compost&premix)

START-UP DESCRIPTION

Future Step Research is a social enterprise specializing in waste management. They develop and manufacture high-quality compost, composting machines, and solutions for organic and farm waste. Their goal is to reduce landfill waste segregation, prevent waste burning, and promote home gardening. They also assist farmers in transitioning to organic farming by offering composting solutions that recycle organic waste into nutrient-rich compost in just seven days, supporting sustainable farming practices.

IMPACT

successfully recycled over 10,000+ tons of organic waste to date

END USERS/CUSTOMERS:

House Holds, Farmers & communities

CATEGORIES

- » Sustainability and waste management



Registered name:

GeeCom India Services Private Limited

Brand name of the start-up:

GeeCom India

Founder(s) Name:

Yogesh Sahu

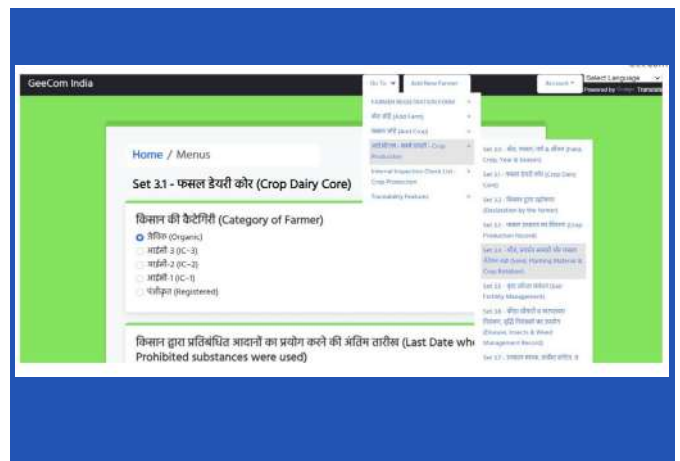
Operational in:

All India

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



FUND RAISED

1,20,00,000 INR

BUSINESS/REVENUE MODEL

Revenue through sale of outputs & inputs, farm record management software & subscription.

START-UP DESCRIPTION

GeeCom India offers a mobile-friendly "Farmer/Rural Organization Management Solution" to streamline record-keeping for farmers and rural organizations. This digital tool simplifies managing member registration, farm records, sales, expenses, and activities, improving data quality and reducing errors. It features customizable templates, business analytics, audit solutions, and GIS-based traceability. With a user-friendly interface, it enables efficient data entry, decision-making, and compliance, benefiting individual farmers, FPOs, and rural entrepreneurs.

IMPACT

- » Total Orders: 1500+
- » Total Transaction Value: 1.7Cr+
- » Users: 30000+, 100+ FPO/FPC/ICS
- » Transactions: 25+ States
- » Users from: 32 States & UT
- » IT Services: 300+ Farmer Organizations

END USERS/CUSTOMERS:

FPOs, Farmers Organizations / Cooperatives, FPC, ICS, SHG and Rural Entrepreneurs

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Markets



Registered name:

GrainAnalyser

Brand name of the start-up:

Your Grain Mechanics

Founder(s) Name:

Amanpreet Singh

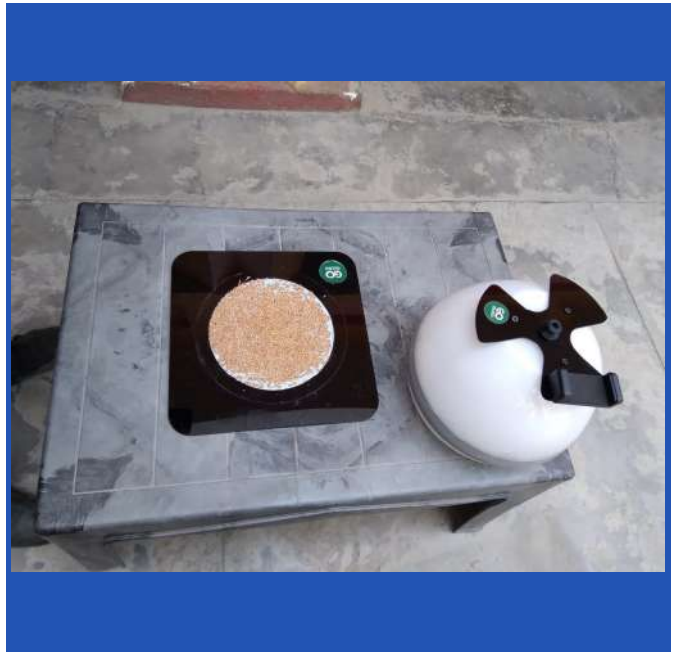
Operational in:

MP, UP, Punjab

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» FICCI Best Agtech Start-up award in Nov 2022

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

AI assessment as a service.

START-UP DESCRIPTION

GrainAnalyser leverages AI and deep learning to digitize grain seed quality while empowering farmers through FPO networks. By offering digital marketplaces, supply chain tools, farm management software, precision agriculture solutions, financial services, and sustainability tools, the startup enhances productivity and profitability. With data analytics and training platforms, GrainAnalyser drives informed decision-making, technology adoption, and sustainable practices, ultimately transforming the agri value chain and improving outcomes for farmers and rural communities.

IMPACT

Enabling farmers to receive fair prices through digital market access.

END USERS/CUSTOMERS:

FPO'S, FPC's, Fintech, Procurement firms and Agencies

CATEGORIES

» Harvesting/QC



Registered name:

GROWiT India Pvt Ltd

Brand name of the start-up:

GROWiT

Founder(s) Name:

Saurabh Agarwal

Operational in:

Gujarat, Maharashtra, Rajasthan, Chhattisgarh, Madhya Pradesh, Karnataka, Andhra Pradesh, Tamilnadu, Telangana, Uttar Pradesh

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Super 30 Visionary Leadership 2024 by Entrepreneur One in 2024, Agri Startup of the Year by Samunnati in 2023, Emerging Company - Gujarat by Agri Business Summit in 2022, Best Agri Startup of the year by ABSA in 2024, Excellence in Agritech by Times Group, 2021

FUND RAISED

Total Fund Raise - INR 7.5 Crores, Main Investors - Piyush Bansal, Namita Thapar, We Founder Circle, Tapi Capital, IVY Growth, etc.

BUSINESS/REVENUE MODEL

Sale of soil testing devices, services & products in crop protection, buy back model.

START-UP DESCRIPTION

GROWiT India Pvt Ltd is a leading agri-tech company offering precision and protective farming solutions from soil to harvest. With products like mulch film, crop cover, insect nets, and soil testing devices, GROWiT supports over 150,000 farmers across 10+ states. Their soil health devices analyze key parameters and recommend suitable crops, enhancing yield and sustainability. Through innovation and a strong franchise model, GROWiT aims to enhance yields, reduce input costs and promote sustainable agriculture

IMPACT

GROWiT's solutions reduce input costs by 50% and increase output by 50%, doubling farmers' income through innovative practices.

END USERS/CUSTOMERS:

Farmer

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Plant Protection

**Registered name:**

Harvested Labs Pvt Limited

Brand name of the start-up:

Harvested Robotics

Founder(s) Name:

Rahul Arepaka

Operational in:

Telangana

Technology Readiness Level (TRL):

TRL 3. Experimental Proof of Concept established

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

» 2nd Place - Babson Global Collaborative Challenge - Global Level (2024).

FUND RAISED

28L INR - AIC Mahindra and Kerala Startup Mission

BUSINESS/REVENUE MODEL

Sale of laser weeders via tractors/agri dealerships.

START-UP DESCRIPTION

Harvested Labs designs precision laser weeding tool that enhances tractor productivity by integrating AI and cameras to accurately detect and eliminate weeds. The tractor-compatible system identifies weeds via cameras and removes them without herbicides, reducing the frequency of weeding by 50%, making the process more efficient and sustainable.

IMPACT

The startup improves weeding efficiency, reduces herbicide use and enables precise data mapping.

END USERS/CUSTOMERS:

Medium-large Sized Farmer. (>7 Acres)

CATEGORIES

» Plant Protection



Registered name:

Intech Harness Pvt Ltd

Brand name of the start-up:

Jalaprayah

Founder(s) Name:

Tarang Patel

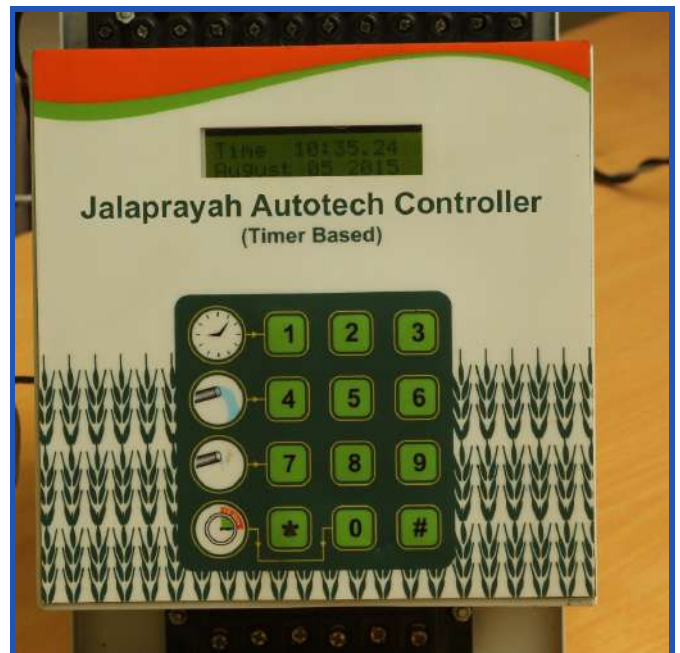
Operational in:

Pan India

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» Ranked Amongst the Top 20 Most innovative MSME in India

FUND RAISED

125000 IIT - Guwahati

BUSINESS/REVENUE MODEL

Hardware sales & subscription services

START-UP DESCRIPTION

Intech harness has developed a patented, IoT-enabled Farmer Obedient Pump Controller that automates farm irrigation, addressing erratic power and water issues without human intervention. Unlike GSM-based systems, it offers precise, reliable operation, reducing labor, saving time, and increasing crop yield. By minimizing water use and carbon footprint, it promotes sustainability. The modular IoT platform also enables data-driven irrigation, making it a comprehensive solution for current and future farm irrigation challenges.

IMPACT

Reduces water and energy consumption in agriculture through automated irrigation systems.

END USERS/CUSTOMERS:

Farmer / B2B & B2G

CATEGORIES

» Farming/Production



Registered name:

JyoSH AI Solutions Pvt. Ltd.

Brand name of the start-up:

JyoSH

Founder(s) Name:

Dr. Sharadchandra Lohokare

Operational in:

Maharashtra , Telangana (work in progress)

Technology Readiness Level (TRL):

TRL 7. Late-stage validation (prototype runs in operational environment)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » AgriIndia Hackathon winner conducted by Agriculture ministry year 2021

FUND RAISED

Rs 132 lakhs Grants, CSR Fund, BIRAC Equity Fund and ATMAN DST fund (TIH Foundation IITB)

START-UP DESCRIPTION

JyoSH AI Solutions Pvt. Ltd. has developed the JyoSH Integrated Agriculture Robot, a patented smart farming solution that automates the entire cotton cultivation cycle—seed sowing, weed management, crop health monitoring, and cotton harvesting. Powered by advanced robotics, AI/ML, computer vision, and edge computing, the robot is scalable and customizable for farms of all sizes. It improves yield, quality, and profitability while reducing labor dependency, chemical usage, environmental impact, and overall cultivation costs for cotton farmers.

IMPACT

JyoSH Robot improves profitability, yield, quality, and sustainability in cotton farming.

END USERS/CUSTOMERS:

- » 60 lakhs cotton farmers and their families in India due to increased productivity and profitability
- » 800+ cotton FPOs in India
- » Youth at villages who can become Agripreneurs by buying and renting JyoSH Robot
- » Soil , Environment and farmers health due to less usage of chemicals

BUSINESS/REVENUE MODEL

B2B (FPOs, Farm equipment sellers), B2C, CCAS(Cotton cultivation as a service)

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Harvesting/QC

**Registered name:**

Kash Hith Innovations

Brand name of the start-up:

Kash Hith Innovations

Founder(s) Name:

Ritesh Taunk

Operational in:

Kash Hith Innovations is operational in more than 14 states across India. These states include: Maharashtra, Madhya Pradesh, Chhattisgarh, Rajasthan, Uttar Pradesh, Haryana, Punjab, Gujarat, Karnataka, Tamil Nadu, Andhra Pradesh, Telangana, Bihar, West Bengal. These regions benefit from the deployment of Teknos and Teknos EV machines, enhancing agricultural productivity and sustainability for a wide range of farmers.

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

- » Kash Hith Innovations has received several prestigious awards and recognition for its contributions to the agricultural sector. Some of the major awards and recognition include:
- » Most Innovative Agritech Startup 2022 by FICCI, New Delhi: This award was presented by Sri Kailash Choudhary, Union Minister of State for Agriculture and Welfare, Government of India, at the NDTV India Awards Icons of Bharat.

END USERS/CUSTOMERS:

The primary beneficiaries and customers of Teknos and Teknos EV are farmers engaged in horticulture and vegetable cultivation. These machines are particularly advantageous for small to medium-sized farmers looking to enhance productivity, reduce labor costs, and improve the efficiency of their spraying operations.

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Sale of spraying machines.

START-UP DESCRIPTION

Kash Hith Innovations offers advanced agricultural machinery, including the Teknos and Teknos EV spray machines. The Teknos features a Honda GX 200 QTB engine, with a 200-liter tank capacity, and serves dual purposes as both a high-performance sprayer and loader, capable of carrying up to 500 kg of materials, ideal for vegetables and orchard fruits. The Teknos EV, India's first electric riding-type spray machine, operates efficiently with a 26-inch row-to-row distance, offering fuel-free spraying. Both models enhance productivity, reduce labor costs, and support sustainable farming.

IMPACT

Teknos and Teknos EV increase crop yield by 50-70%, improve efficiency, reduce labor and fuel costs, enhancing profitability.

CATEGORIES

- » Plant Protection



Registered name:

KuppiSmart Solutions Pvt Ltd

Brand name of the start-up:

Livestockify

Founder(s) Name:

Akhil Reddy K

Operational in:

South India Office in Hyderabad and Vellore

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Selected for the Yukthi Innovation Challenge 2023 organized by the Ministry of Education
- » Recognized as one of the Top 20 Student-led Startups in the National level campus fund and Amazon Grand Challenge 2023
- » Awarded "Best Innovator" at the Innovation Demo Day at VIT

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

IoT device on sale & subscription.

START-UP DESCRIPTION

Livestockify is an innovative startup revolutionizing poultry farming through IoT and AI technologies. The system integrates advanced health monitoring devices that analyze bird vocalizations, water quality (automating pH, temperature, and TDS), and vision systems for 24/7 hen behavior surveillance, automated counting, and weight estimation. This real-time data enables early disease detection, proactive management, and actionable insights, optimizing flock health and enhancing productivity. Livestockify empowers poultry farmers to adopt data-driven, sustainable farming practices for a healthier, more efficient future.

IMPACT

- » Enhanced Health and Well-being (~25%-30% reduction of Mortality rate),
- » Labour Reduction (~40%-50%),
- » Profit Maximization (~15%-20% Increased yields)

END USERS/CUSTOMERS:

Poultry Farmers and Poultry Organisations

CATEGORIES

- » Allied activities

**Registered name:**

Minkan Agro Industries Pvt Ltd

Brand name of the start-up:

Millet Bank

Founder(s) Name:

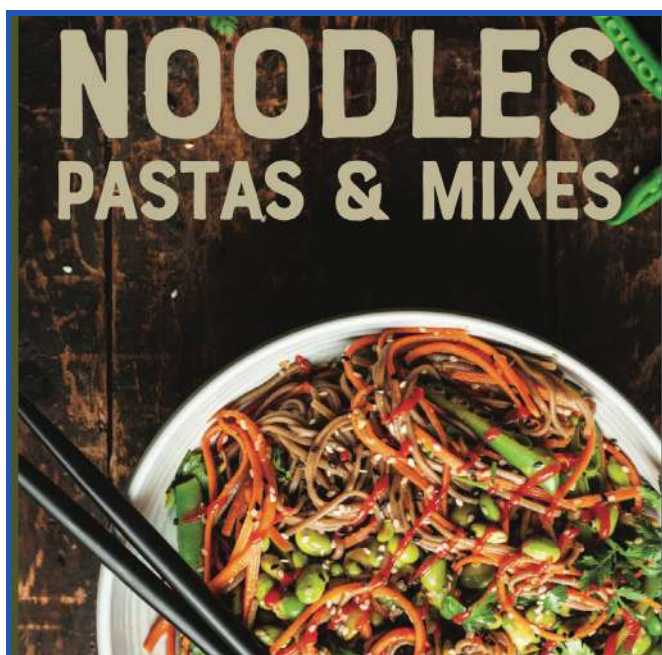
Vishalakshi Vuyyala

Operational in:

Telangana

Technology Readiness Level (TRL):

TRL 2. Proof of Principle /Technology concept formulated

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

- » Atal New India Challenge: Winner of Atal New India Challenge for Millets with a 1 crore grant, showcased at the Technology Expo 2023 inaugurated by the Hon'ble PM.
- » NITI Aayog Recognition: Listed in NITI Aayog's 75 agri start-ups and innovators transforming Indian agriculture.
- » NABARD Capital Catalytic Fund: Selected as one of the top 4 startups out of 50 for the NABARD capital catalytic fund.
- » FICCI Best Women Agri Tech Award: Recognized twice (2022 & 2023) as one of the top 4 women agritech startups to receive FICCI Best Women Agri Tech Award.
- » National Startup Awards: Finalist in the National Startup Awards 2022 by Startup India DPIIT.
- » IIMR/NutriHUB Award: Winner of Best Millet Startup for Branding and Promotional activities in 2022 & 2023, showcasing excellence in branding efforts.
- » G20 Leaders' Summit: Invited to curate Millet Experiences for the G20 Leaders' Summit – Spouses Program, gaining recognition at an international level.

START-UP DESCRIPTION

Millet Bank is creating a comprehensive, inclusive, and fair value chain in the millet industry. It is not just a product-focused initiative; it is a cultural movement that seeks to revive and promote the significance of millets. Through agroecological interventions, the brand engages farmers, microprocessors, and rural artisans. As a D2C brand, Millet Bank offers a variety of millet-based ready-to-cook and ready-to-eat products, including cookies, noodles, pasta, breakfast mixes, snacks, and gift hampers, along with rural crafts.

IMPACT

40 + Products launched in Millet Space

END USERS/CUSTOMERS:

General Public who prefer healthy choices of Food

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Ready to eat & Ready to cook millet based products - D2C, B2B.

Millet based gifting.

CATEGORIES

- » Farming/Production
- » Processing/Value Addition
- » Markets
- » Food manufacturing
- » Food Supply chain

**Registered name:**

NATUREX AI TECHNOLOGIES PVT LTD

Brand name of the start-up:

4CLIMATE

Founder(s) Name:

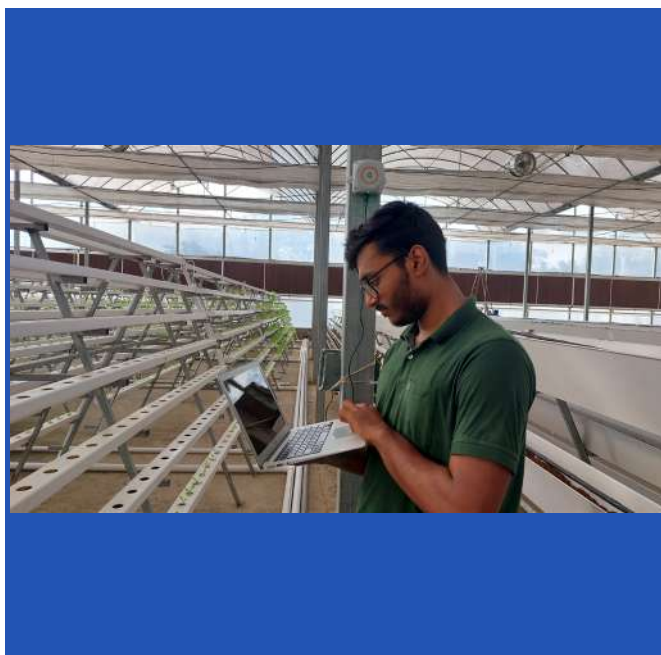
Subhajit Sinha

Operational in:

Pan INDIA

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

» NA

FUND RAISED

INR 70,00,000

BUSINESS/REVENUE MODEL

B2B partnerships, direct sales of product, services, subscriptions & consultation projects (R&D)

START-UP DESCRIPTION

NatureX AI is a deep-tech startup specializes in precision agriculture and farm automation, offering proprietary intelligent farm systems that integrate hardware and software technologies from seeding to harvest. Their solutions include a customizable IoT dashboard for cloud monitoring and analytics, Crop AI platform for risk management and farm steering, XDOSE for intelligent nutrient delivery, and XGRID for intelligent farm automation. These systems support hydroponic, aeroponic, vertical farming, and greenhouse environments, enhancing farm efficiency, sustainability, and plant growth.

IMPACT

- » Farms automated - 20+
- » IoT sensor nodes - 100+
- » Crop varieties - 45+
- » SqFt farm area managed - 500,000

END USERS/CUSTOMERS:

Protected farming, Greenhouse, Hydroponics etc

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Harvesting/QC

**Registered name:**

Navariti Innovation Private Limited

Brand name of the start-up:

HELIOT

Founder(s) Name:

Sisir Chandra Jonna

Operational in:

Telangana, Gujrat, Andhra Pradesh, Uttar Pradesh, West Bengal, Assam.

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

- » 1) HELIOT unveiled by of H'ble PM and H'ble minster of Science and Technology commemorating the 75th year of independence at Pragati maidan June 2022.
- » 2) Selected for RKVY-RAAFTAR program, RABI IIT-BHU, 2023, awarded 20Lac grant.

FUND RAISED

INR 21Lac (Grant)

BUSINESS/REVENUE MODEL

Sale of device, Online services & subscription.

START-UP DESCRIPTION

Navariti Innovation Private Limited has developed HELIOT, a solar and AIoT-powered smart irrigation management system focused on sustainability and climate resilience. HELIOT is an autonomous system that optimizes irrigation and fertigation, monitoring environmental, soil, and plant health parameters. It integrates AIoT for automatic control of motors, solenoid valves, foggers, exhaust fans, and cooling pads. The system is adaptable for various crops, geolocations, and farming environments, including polyhouses and hilly terrains, making it cost-effective and scalable for small-scale farmers.

IMPACT

Boosts yield, reduces labor intensity, and ensures sustainable water usage.

END USERS/CUSTOMERS:

End beneficiary: Small holder farmers, Polyhouse Farmer, Mush.
Customer: Polyhouse owner, FPCs. FPOs, NGOs, Private and Public sector initiatives.

CATEGORIES

- » Farming/Production



Registered name:

NovosEdge Pvt Ltd

Brand name of the start-up:

AgriDoot

Founder(s) Name:

S Ranjan

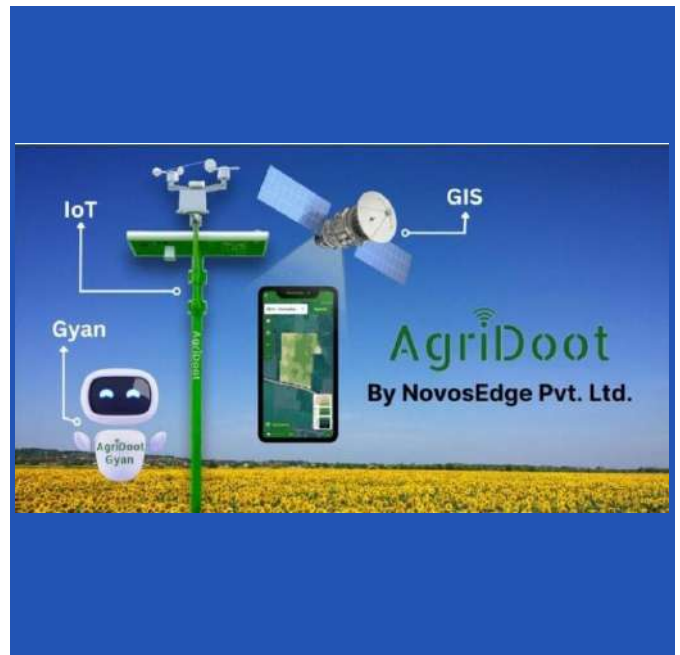
Operational in:

We are at “ready to market” stage and will work pan India

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » We have been incubated by ICAR Lucknow, NIAM, Jaipur and associated with SH Sam Higginbottom University of Agriculture, Technology And Sciences and NABARD

FUND RAISED

No funds raised

START-UP DESCRIPTION

AgriDoot by NovosEdge is an advanced agritech solution that combines IoT sensors, AI, ML, GIS, and expert agronomy advice to enhance crop production. It provides real-time, crop-specific insights, predicting weather patterns and disease risks while offering tailored agronomic recommendations. By optimizing resource allocation and improving sustainability, AgriDoot helps farmers increase yield, reduce costs, and enhance productivity. This innovative technology empowers farmers to make informed decisions, transforming traditional farming practices for higher profitability and efficiency.

IMPACT

AgriDoot enhances crop yield, reduces production costs, and improves pest/disease management through data-driven, real-time recommendations.

END USERS/CUSTOMERS:

AgriDoot creates value primarily for farmers by providing them with actionable insights and solutions to optimize their farming practices. Additionally, it adds value for agricultural organizations, government agencies, and input suppliers by offering data-driven tools for decision-making and collaboration. Segmenting customers based on farm size, crop type, geographical location, and technological proficiency can help tailor AgriDoot's offerings to specific needs and behaviours

BUSINESS/REVENUE MODEL

B2B, B2C, Revenue through hardware sales, subscription fees, Data Licensing, consultancy services.

CATEGORIES

- » Farming/Production
- » Plant Protection



Registered name:

Nutrikosh India Pvt Ltd

Brand name of the start-up:

NKOSH

Founder(s) Name:

Ashutosh Tiwari

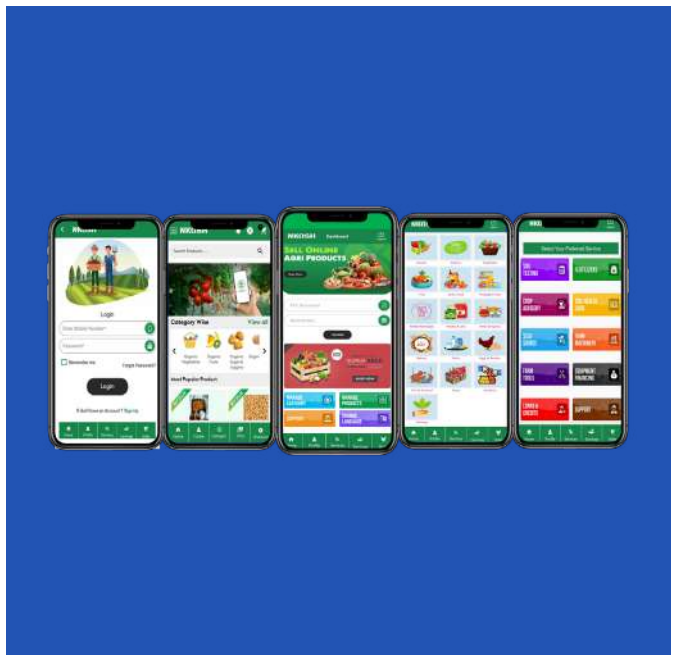
Operational in:

UttarPradesh

Technology Readiness Level (TRL):

TRL 6. Early stage validation (tech demonstration in operational environment)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» Google Appscale Top 100 award, RKVY Raftar Grant

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Commission based model.

START-UP DESCRIPTION

Nkosh is a tech-enabled agribusiness platform connecting farmers, FPOs, retailers, traders, and buyers. It leverages AI/ML, deep learning models, and CNN algorithms for image classification, crop recommendation, and disease detection through mobile camera analysis. The platform also features an agri-commodity price discovery module, using deep image analysis to assess crop quality and suggest prices. Additionally, Nkosh integrates blockchain for smart contracts and traceability, enabling transparent and efficient agricultural commodity trading.

IMPACT

Increasing farmer income and reducing food wastage through efficient crop management and price discovery.

END USERS/CUSTOMERS:

Farmers, Buyers

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Harvesting/QC
- » Markets



Registered name:

Orchard Farm Fresh Vacuum Dried Fruits (India) P Ltd.

Brand name of the start-up:

FAT

Founder(s) Name:

Ravindra Raghuwanshi

Operational in:

Maharashtra

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» No

FUND RAISED

INR 55,00, 000, Ravindra Raghuwanshi, Boot strap

BUSINESS/REVENUE MODEL

Sale of dried fruits & vegetables, farmer partnerships for vacuum dryers, buy back model & licensing the technology.

START-UP DESCRIPTION

Orchard farm fresh transforms fruit and vegetable processing through advanced FAR IR vacuum drying technology installed directly at farmers' farms. Unlike traditional high-heat drying methods, vacuum drying gently removes moisture at low temperatures, preserving the natural aroma, vibrant color, and essential nutrients of the produce. The company offers the technology to farmers at cost price and follows a buyback model for the dried products. The result is nutrient-rich, high-quality dried fruits that are more nutritious than fresh produce.

IMPACT

Reduces pre- and post-harvest losses while enabling farmers to boost income by selling vacuum-dried fruits directly back.

END USERS/CUSTOMERS:

Consumers

CATEGORIES

» Processing/Value Addition



Registered name:

Oscillo Machines Private Limited

Brand name of the start-up:

Oscillo Machines

Founder(s) Name:

Prajwal M

Operational in:

Karnataka, Telangana, Andhra Pradesh, Tamil Nadu

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » BIRAC-IKP AgriGrand Challenge Stage I Winner
- » Elevate 2023, GoK.
- » Present Top16 in ongoing DCM AgWater Challenge

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Revenue through Machinery sale & after sale services

START-UP DESCRIPTION

Oscillo Machines is developing electric and diesel-operated farm machinery tailored for small and marginal Indian farmers, aiming to simplify traditional agricultural practices. Their ingeniously designed products include the Suvarna 4R eRT Ride-on Root Washed Electric Paddy Transplanter, SRI Electric Paddy Weeder, Electric Poultry Racking Machine, and Direct Seeded Rice (DSR) equipment. These machines are efficient, user-friendly, and specifically built in collaboration with local farmers to enhance field productivity and promote accessible mechanization.

IMPACT

Mechanizing traditional practices to boost efficiency, reduce labor, and make modern farming accessible for small and marginal farmers.

END USERS/CUSTOMERS:

- » Farmers owning more than 5-10 acres.
- » Custom Hiring Centers- rent machines to farmers.
- » Agriculture Labour work groups.
- » Poultry farmers owning >5000 Birds capacity.

CATEGORIES

- » Farming/Production
- » Plant Protection
- » Allied Activities

**Registered name:**

Pequirel Technologies Pvt Ltd

Brand name of the start-up:

Pequirel

Founder(s) Name:

Kiran Baddi

Operational in:

Karnataka, Gujarat, Maharashtra

Technology Readiness Level (TRL):

TRL 7. Late-stage validation (prototype runs in operational environment)

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

- » Elevate Unnati -2022
- » Social Alpha -2022
- » Birac BIG-2023

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

Sale through growing & drying(A3S, Advanced adaptable agriculture system) infrastructure & services.

START-UP DESCRIPTION

Pequirel addresses post-harvest losses in value crops like chillies with its Advanced Adaptable Agricultural System (A3S), a dual-purpose innovation. A3S reduces chilli drying time from 2–3 weeks to 5–8 days, preserving quality by maintaining optimal drying temperatures using solar thermal energy and automated controls. It transforms into a greenhouse during off-season, supporting resilient seedling cultivation with temperature, light, and rainwater management. This year-round system boosts farmer income, reduces cultivation risk, and ensures sustainable resource use.

IMPACT

- » 75+ farmers benefitted by A3S.
- » 44,815+ kg of chilli dried.
- » 50,200+ Kg of green gram dried
- » 25,000+kg leafy vegetables dried
- » 9,000+ Kg Lemon peel dried
- » 3,20,000+ seedlings produced.
- » 17,81,632 INR additional revenue to the farmers due to improved quality
- » 2.6 Tons of CO2 loss averted

END USERS/CUSTOMERS:

Chili growing farmers, food processing industries, FPOs VLE's

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Processing/Value Addition
- » Sustainability and waste management



Registered name:

Physiz Agtech Private Limited

Brand name of the start-up:

PhyFarm

Founder(s) Name:

Naveen Singh

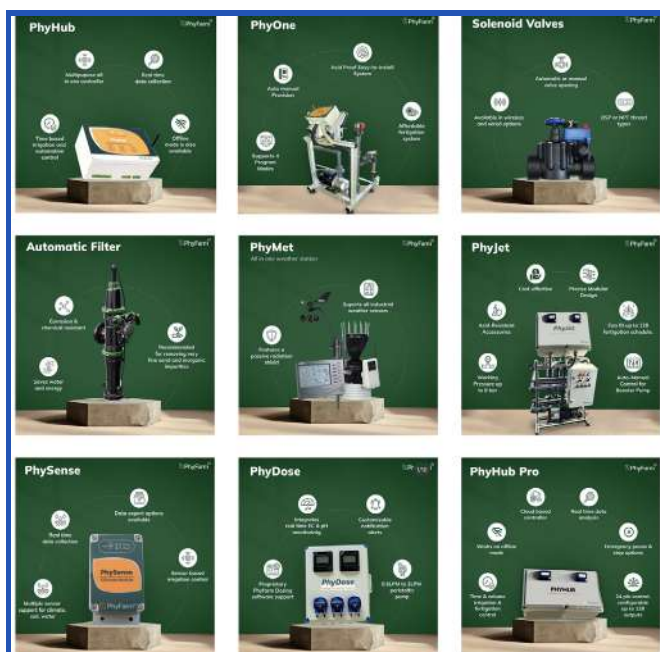
Operational in:

PhyFarm is operational in multiple states across India, including Maharashtra, Karnataka, Delhi, Gujarat, Madhya Pradesh and others.

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Incubation at Pusa Krishi in 2022
- » Aegis Graham Bell Award in 2022
- » Recognition by JICA as a top agri-startup in 2023
- » Tech Transformer Award by Tally in 2024
- » Recognition in various startup events and competitions showcasing innovation in agriculture

FUND RAISED

PhyFarm has raised a total of INR 4,67,19,527 The main investor from the latest round are CEOs and directors from major Indian corporations including G.V Giri, Bimal Dayal, Pankaj Thapliyal.

BUSINESS/REVENUE MODEL

Sale of Hardware, Irrigation & fertigation automation services, commission models.

START-UP DESCRIPTION

PhyFarm delivers a comprehensive agri-tech solution by integrating AI, IoT, cloud computing, and big data analytics to digitize and enhance farming operations. Its platform features real-time data collection via on-field sensors, automated irrigation and climate control, and AI-powered disease detection and crop management. Predictive analytics optimize yield and minimize risks by analyzing weather, soil, and historical data. With over 100 deployments and 500+ acres covered, PhyFarm empowers farmers with automation, remote monitoring, and sustainable, data-driven decision-making.

IMPACT

PhyHub adoption boosts efficiency, lowers operational costs, and enhances yields by automating irrigation, climate control, and crop monitoring.

END USERS/CUSTOMERS:

PhyFarm's end beneficiaries and customers include farmers and agricultural businesses

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Sustainability and waste management



Registered name:

Proleri Technologies Private Limited

Brand name of the start-up:

Proleri

Founder(s) Name:

Vaibhaw Dwivedi

Operational in:

Telangana and Maharashtra

Technology Readiness Level (TRL):

TRL 6. Early stage validation (tech demonstration in operational environment)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Winner of Start Up Grand Challenge organised by MoFPI (Ministry of Food Processing Industries) in 2024. Proleri was one of only 6 startups awarded from across the country

FUND RAISED

INR 2500000 raised from an angel investor

BUSINESS/REVENUE MODEL

B2B novel ingredient company, Sale of RuBisCo isolates & other derivatives like leaf fiber.

START-UP DESCRIPTION

Proleri is a double-impact business addressing protein deficiency and farm waste reduction by unlocking the potential of RuBisCO, the most abundant and sustainable protein on Earth. Using proprietary extraction technology, Proleri processes agricultural leaf waste—like broccoli, spinach, and tobacco—into high-purity protein products: Rubisco Supreme (80%), Rubisco Plus (65%), Rubisco Gold (65% with enhanced functionality), and Super Fibre (15–20% protein). This innovative approach creates affordable, clean protein while reducing waste and promoting sustainable food systems.

IMPACT

By 2027, Proleri will save 120,000+ tonnes of leaf biomass, cut 66,000+ CO₂e, create 200+ jobs over next 24 months, and boost farmer incomes.

END USERS/CUSTOMERS:

- » 1) New Food-tech companies that produce and sell Ready To Eat high protein products, plant-based milk, dairy and meat analogues
- » 2) Traditional white label food producers and distributors who will use the product as an additive into their existing applications (meatballs, burger patties etc.)
- » 3) Ingredient and flavouring companies who make complex ingredient formulations using base ingredients.

CATEGORIES

- » Food manufacturing
- » Sustainability and waste management



Registered name:

Relific Technology Private Limited

Brand name of the start-up:

Krisiyukta

Founder(s) Name:

Manjunatha Thyagaraj

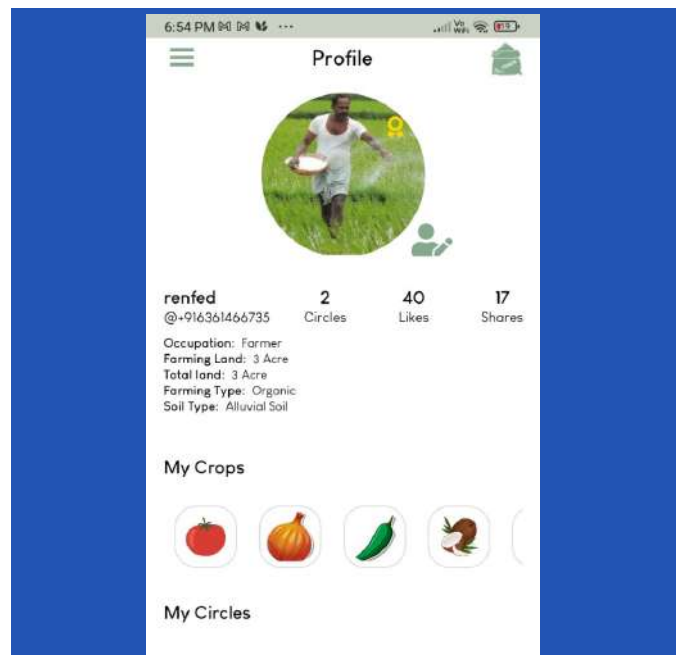
Operational in:

Karnataka and Andhra Pradesh

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» NA

FUND RAISED

\$200K

BUSINESS/REVENUE MODEL

B2B digital agriculture solutions

START-UP DESCRIPTION

Krisiyukta offers domain-specific digital and AI-driven platforms to empower agri and social sector organizations, especially those supporting small and marginal farmers. Leveraging ML, AI, and advanced technologies, the platform enhances operational efficiency and impact. Its farmer management system provides real-time insights, structured advisory support, and tools for effective field engagement. Through an integrated web dashboard and mobile apps, teams can track farmer activities, monitor training programs, and drive data-backed agricultural interventions for improved productivity and social impact.

IMPACT

Improved yields through real-time insights, structured advisory, and efficient farmer engagement tools.

END USERS/CUSTOMERS:

Farmers and Social Sector Organizations - B2B

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection



Registered name:

Renewagri Om Ecommerce Private Limited

Brand name of the start-up:

AgriVijay

Founder(s) Name:

Vimal Panjwani

Operational in:

Spread across PAN India Physically operating in Maharashtra, Rajasthan, Telangana, Andhra Pradesh & Gujarat.

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

START-UP DESCRIPTION

AgriVijay is India's first curated marketplace and AgTech climate action social enterprise, offering renewable energy solutions for farmers and rural households. They provide solar, biogas, thermal, wind, and green energy products through an AI-enabled WhatsApp chatbot, e-commerce platform, local language call center, and village-level Renewable Energy Stores. By assessing energy and waste needs, AgriVijay delivers customized solutions, financing options, and after-sales support, empowering farmers with affordable, sustainable energy while contributing to climate action and financial independence.

IMPACT

- » AgriVijay's 4-year journey:
- » 15,00,000+ farmers reached across India
- » 10,000+ tonnes of CO2/GHG emissions mitigated
- » 6,57,000+ KWH of clean energy produced
- » 1,64,250+ kgs of animal waste treated
- » 17,50,000+ INR in increased farmer savings
- » 59,000+ kgs of firewood saved
- » 3,28,500+ litres of bio-slurry generated

PRODUCT IMAGES:



END USERS/CUSTOMERS:

Farmers/Rural Households/Rural Retailers

MAJOR AWARDS/RECOGNITION

- » Awarded with EU-TECH SDG Award - SDG 1 'No Poverty' By EU-TECH Chambers
- » Forbes Select 200 Companies With 'Global Business Potential'
- » Awarded National Startup Day Award by 'Lemon Ideas' on National Startup Day
- » Global SAARC Startup Awardee 2022 as 'Best Newcomer'

FUND RAISED

US\$ 160,000 / 1.35 Cr in Equity,Debt & Grant with 6 Investors on the captable - Indigramlabs,AIC JKLU, Miss Sanvali Kaushik (Angel Investor), aIDEA ICAR NAARM,IRMA & Govt of India

BUSINESS/REVENUE MODEL

Network of renewable energy stores & showrooms. Sale of products & after sale services.

CATEGORIES

- » Markets
- » Sustainability and waste management



Registered name:

Revotech Industries Pvt Ltd

Brand name of the start-up:

Revotech Industries

Founder(s) Name:

Vishwambhar ChavanPatil

Operational in:

Maharashtra

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» NA

FUND RAISED

25lakh

BUSINESS/REVENUE MODEL

Revenue through sale of jaggery powder sachets as table sweetner.

START-UP DESCRIPTION

RevoTech offers an innovative automated system for producing hygienic, high-quality jaggery powder using ATFD technology developed through scientific research at IIT Bombay. The system eliminates manual labor and additional drying, resulting in a consistent product with a shelf life of up to one year. It allows customization of color and particle size, offering flexibility in production. Compared to traditional methods, the system reduces labor costs, ensures consistent quality, and provides a hygienic, labor-efficient process, making jaggery powder an attractive alternative to sugar and traditional jaggery.

IMPACT

Improves jaggery quality and consistency, positively impacting millions of workers in the jaggery industry.

END USERS/CUSTOMERS:

Jaggery manufacturer

CATEGORIES

- » Processing/Value Addition
- » Food manufacturing



Registered name:

REVY Environmental Solutions Pvt. Ltd.

Brand name of the start-up:

REVY Environmental Solutions Pvt. Ltd.

Founder(s) Name:

Dr. Vanita Prasad

Operational in:

For REVY – STUB – Punjab, Haryana and
Maharashtra
For Core Product – All India

Technology Readiness Level (TRL):

TRL 4. Proof of Concept demonstrated

PRODUCT IMAGES:

Brand Name : REVY –STUB
Formulations : A microbial consortium of Bacterial & Fungal species for rapid decomposition of paddy straw
Purity : Microbial count > 2 x 10⁸ CFU/ml
Color : Light Brown
Packaging : 50L Rockets
Shelf Life : ~ 6 month
Dosage : 100 L/Acre

MAJOR AWARDS/RECOGNITION

- » One of the 25 women-led startups at Rashtrapati Bhavan who were appreciated for their journey and achievements as entrepreneurs by Hon'ble President of India, Smt. Droupadi Murmu in 2024
- » Winner of Sankalp x Artha Global Impact Awards 2023
- » Winner of World Biogas Association Awards under Best Anaerobic Digestion/Biogas Support
- » Service O&M company 2023 under environmental Biotechnology company
- » Winner of 'Innovation Agora Pod Recognition' Programme[™] announced at India Energy Forum by CERAWEEK & IHSMarkit. Invited to present our Clean Energy solution at CERAWEEK Houston in Mar'22

FUND RAISED

Grants Received: 25 Lakhs for REVY STUB Development

Investment Received: Equity – 1.4 Crore (For Core products - REVY - S and BGEF's)

BUSINESS/REVENUE MODEL

Sale of bio decomposer, biomass seed cultures, others.

START-UP DESCRIPTION

REVY promotes sustainable waste management through innovative technologies like the REVY-Stub kit. This kit, containing a unique blend of microbes, rapidly decomposes agricultural stubble, converting it into organic manure and enriching soil fertility within a short time. REVY has developed IP-protected bio-cultures, such as Anaerobic Granulated Sludge and Biomass Growth Enhancement Formulations, to treat organic waste and wastewater. The R-EMAPP app tracks biological treatment performance, ensuring efficient, eco-friendly waste-to-energy solutions in real-time.

IMPACT

- » promoting healthy lives, green harvesting, CO₂ mitigation, and reduced particulate matter.
- » Organic waste treated : 29,000 tonnes
- » Wastewater treated: 19,000 KL
- » GHG mitigation (MtCO₂/Annum): 255

END USERS/CUSTOMERS:

Farmers who needs to manage their crop residue for preparing field for the next crop.

CATEGORIES

- » Sustainability and waste management



Registered name:

SapTKRISHI Scientific Private Limited

Brand name of the start-up:

Sabjikothe

Founder(s) Name:

Nikky Kumar Jha

Operational in:

Delhi, J&K, Tamil Nadu, Karnataka, Orisa, Telanagan, Gujrat, Maharastra, UP

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Major Awards/Recognition for SapTKRISHI Scientific Private Limited:
- » National Startup Award 2022 - Recognized by the Government of India for innovation in the agriculture sector.
- » Agricultural Innovation Award 2021 - Presented by the Ministry of Agriculture for outstanding contributions to reducing post-harvest losses.
- » Sustainable Development Award 2020 - Awarded by the United Nations Development Programme (UNDP) for efforts in promoting sustainable agricultural practices.

FUND RAISED

15 Lakh

BUSINESS/REVENUE MODEL

NGOs, CSR & Foundations), B2C, B2B2C.

START-UP DESCRIPTION

SapTKRISHI Scientific offers Sabjikothe, an affordable, solar-powered storage solution that extends the shelf-life of fruits and vegetables for up to 30 days without chemicals or refrigerants. It reduces wastage for farmers and hawkers by over 40%, helping them maintain the freshness of their produce. With just 20 watts of power, Sabjikothe boosts income by more than 30% and mitigates carbon emissions. The solution comes in various forms, including carts for street hawkers and e-carts for transportation, ensuring a significant societal return.

IMPACT

Extends produce shelf life by 30 days with low-energy, solar-compatible storage solutions.

END USERS/CUSTOMERS:

farmers, small shopkeepers and street vendors

CATEGORIES

- » Storage & logistics



Registered name:

Shetipurak Agritech & Services Pvt Ltd

Brand name of the start-up:

WAVAR

Founder(s) Name:

Joy Chakraborty

Operational in:

Maharashtra, Karnataka, AP, Telangana, MP, Raj, Chattisgarh, Gujarat, Rajasthan

Technology Readiness Level (TRL):

TRL 7. Late-stage validation (prototype runs in operational environment)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» DIPP

FUND RAISED

3 Cr INR

BUSINESS/REVENUE MODEL

Digital services & subscriptions, Retail product & B2B wholesale sales & exports.

START-UP DESCRIPTION

Shetipurak Agritech and Services Pvt Ltd, through its Wavar platform, is transforming agriculture with its innovative Mechanical Traps and Agri IPM solutions. Wavar B2B serves as a direct supply chain between manufacturers and retailers/FPOs, offering products at wholesale rates. Additionally, Wavar Corner Franchisee stores and Wavar Mitra promote agri-preneurship, expanding the reach of sustainable agriculture practices. The company also operates India's first Agri Professionals Community via its app, enhancing ecosystem development.

IMPACT

Reduces pesticide dependency with mechanical traps, Farmer profitability increases by a minimum of 25%.

END USERS/CUSTOMERS:

Farmers

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Markets



Registered name:

Simplify Agri Private Limited

Brand name of the start-up:

Simplify Agri

Founder(s) Name:

Rijish V R, Dr Remya Raj

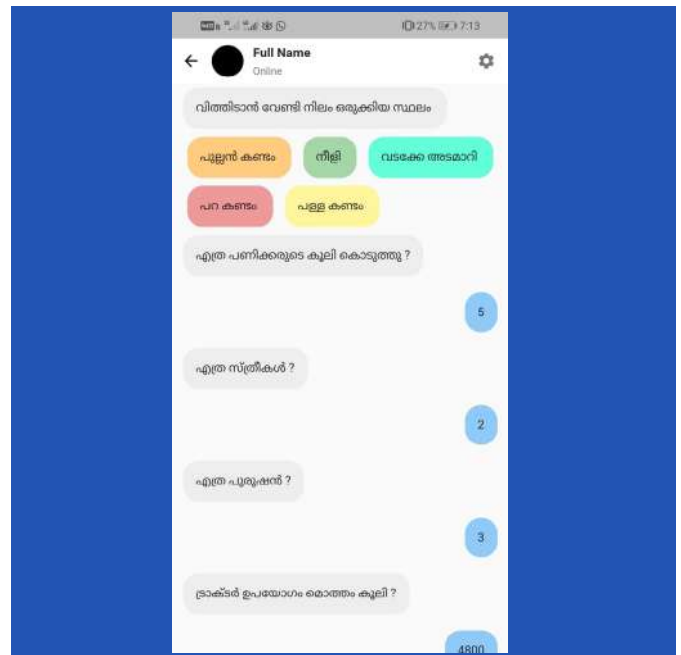
Operational in:

Kerala

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 2022 Most innovative startup to upskill farmers for 21st century by MIT-ADT University,
- » 2022 Most innovative startup for farmers by KVK Palakkad

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

service fee for the software solutions.

START-UP DESCRIPTION

Simplify Agri is a technology-driven platform that empowers farmers with digital solutions for farm management, crop planning, and resource optimization. Using AI, ML, IoT, and blockchain, the platform offers mobile and web applications to enhance productivity, reduce operational burdens, and improve traceability. It provides predictive analytics, real-time soil health monitoring, and facilitates financial inclusion by connecting farmers to tailored credit solutions. Simplify Agri supports sustainable farming practices, boosting efficiency, profitability, and decision-making.

IMPACT

Piloted with 320 farmers across 600 acres, Simplify Agri reduced costs by Rs.6,000/acre and increased yield by 400 kg—delivering Rs.11,000/acre annual benefit.

END USERS/CUSTOMERS:

farmer, research organizations, service providers, banks, insurance

CATEGORIES

- » Farming/Production



Registered name:

Sisource Pvt Ltd

Brand name of the start-up:

SISOURCE

Founder(s) Name:

Ruchika kuthari

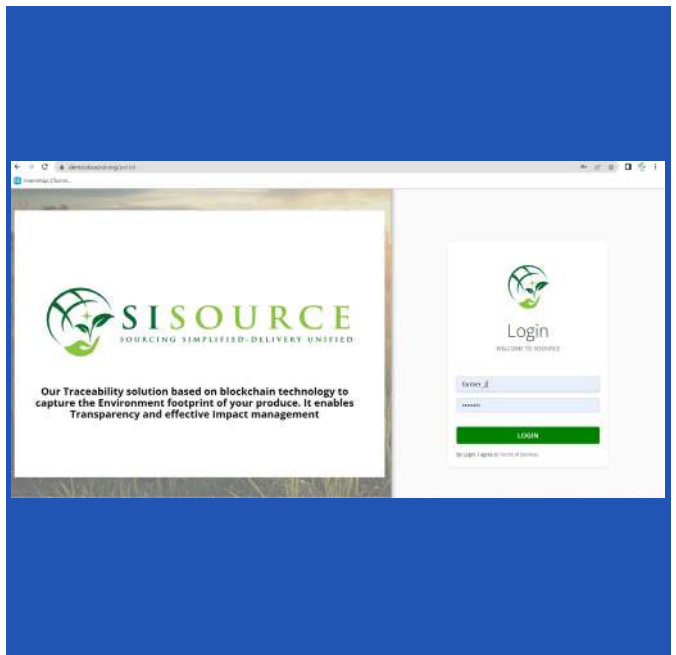
Operational in:

Assam , North East , UP

Technology Readiness Level (TRL):

TRL 5. Late-stage research for technology validation in operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» NA

FUND RAISED

Bootstrapped and Grants only

BUSINESS/REVENUE MODEL

Consultancy services & subscription.

START-UP DESCRIPTION

SiSource is building a secure digital platform to unify agri and food producers working with sustainability standards. It enables responsible and green value chains through secured data integration, transparent documentation, and traceable financial and communication records. The platform reduces fraud, enhances trust, and captures provenance along with environmental and social impact data. By supporting fair and green trade, SiSource empowers producers to showcase compliance, build credibility, and unlock better market opportunities through responsible supply chain practices.

IMPACT

Trained 12 mid-to-senior level professionals from a spice manufacturing company and 1 FPO

END USERS/CUSTOMERS:

- 1.Seller Profile - Exporting FPO/ Existing exporter / Deemed exporter/ Exporter / Trader / Processor / Aggregator. –
- 2.Buyer Profile – International Buyer/ Importer/ Agri Trader, distributor / International Food Processing Manufacturer / Nutraceutical & Wellness products manufacturer.

CATEGORIES

- » Markets
- » Sustainability and waste management

**Registered name:**

Temperate Technologies Private Limited

Brand name of the start-up:

ColdEasy

Founder(s) Name:

Vishal Singhal

Operational in:

Telangana, Andhra Pradesh, Maharashtra, and Karnataka

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

- » 20-21: One of the winners of EDF Pulse India Award
- » 22-23: One of the winners of CITI Social Innovation Award
- » One of the winners of Tech tonic – Innovations Towards Zero Food Waste
- » One of the winners of Best Agri-tech startup 2022 by ICAR NAARM
- » One of the winners of the CatalyseTech Energy for Cooling Challenge
- » 23-24: One of the winners of Prajjwala challenge by Ministry of Rural Development

FUND RAISED

Rs 3.1 crore from grants, awards and CSR

BUSINESS/REVENUE MODEL

Revenue through Cold storage installation & services

START-UP DESCRIPTION

Temperate Technologies offers ColdEasy, a low-power, cost-effective cold storage solution that transforms any room into a cold chamber. Designed for smallholder farmers and traders, ColdEasy extends the shelf-life of fruits and vegetables by 3–5 times and reduces weight loss by up to 70%. It operates on just 4 units of electricity per day for up to 2,000 kg of produce. With no risk of chilling injury or condensation, ColdEasy minimizes food waste, boosts farmer incomes, and cuts greenhouse gas emissions.

IMPACT

- » 18 deployments
- » 1100 farmers have access to cold rooms
- » 1300 tons of CO₂e emissions averted

END USERS/CUSTOMERS:

Farmers, FPOs, fruit and vegetable retailers and wholesalers

CATEGORIES

- » Storage & logistics



Registered name:

Thinkgenix Biotech Pvt Ltd

Brand name of the start-up:

Thinkgenix

Founder(s) Name:

Debadutta Mishra

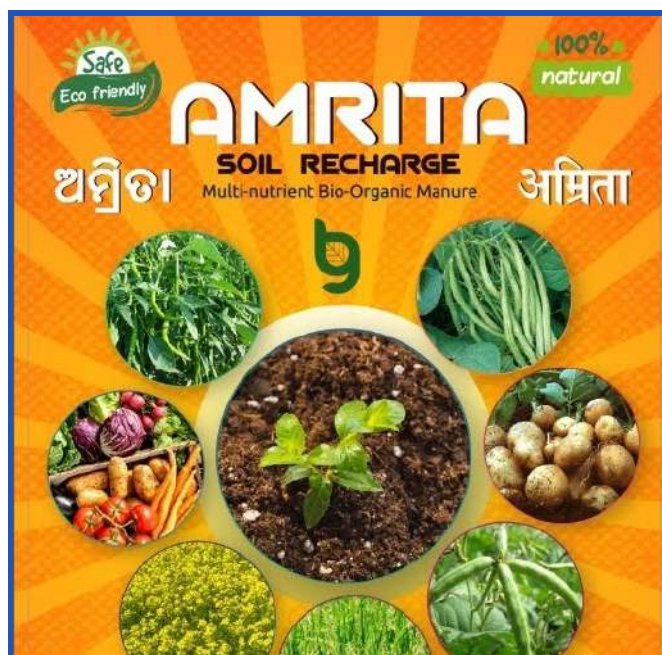
Operational in:

Odisha

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Selected among the Super 20 Start-ups of Fund Stack 2.0 by Startup Odisha. Recognized by DBT- ILS Bhubanewar at Odisha Biotech Startup Summit. KRISHI, IARI. New Delhi. Exhibition inaugurated by Hon'ble Prime Minister Sri Narendra Modi. Recognized by Startup Odisha in Make In Odisha Conclave 2022.

FUND RAISED

24 Lakh Grant from RKVY RAAFTAR FROM PUSA KRISHI.

BUSINESS/REVENUE MODEL

B2B, B2C, Sale of products

START-UP DESCRIPTION

Thinkgenix is an agritech startup focused on turning waste into wealth through biorefinery technology. The startup recycles nutrient-rich fish waste into high-quality, organic agri-inputs that enhance soil health and boost crop productivity. By offering a sustainable and eco-friendly alternative to chemical fertilizers, Thinkgenix supports regenerative agriculture, reduces environmental impact, and promotes circular economy practices—delivering value to both farmers and the ecosystem.

IMPACT

Reduces carbon footprint and promotes environmental health through sustainable fish waste recycling and reuse.

END USERS/CUSTOMERS:

Farmer

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Plant Protection
- » Sustainability and waste management



Registered name:

Tiny Treats Fnb llp

Brand name of the start-up:

Tiny Treats

Founder(s) Name:

DINESH

Operational in:

Hyderabad, Telangana

Technology Readiness Level (TRL):

TRL 7. Late-stage validation (prototype runs in operational environment)

PRODUCT IMAGES:



END USERS/CUSTOMERS:

- » At Tiny Treats Fnb, our end beneficiaries and customers include:
- » 1. Schools: Providing nutritious meals to support the growth and development of children.
- » 2. Hospitals: Offering fresh, organic food options to aid in patient recovery and overall health.
- » 3. Wellness Centers: Supplying nutrient-rich snacks and meals to promote holistic health and wellness.
- » 4. Gyms and Fitness Centers: Catering to fitness enthusiasts with personalized nutrition plans to enhance performance and recovery.
- » 5. Health-Conscious Individuals: Serving those who prioritize organic, sustainable, and nutrient-dense food in their daily diet.

BUSINESS/REVENUE MODEL

Business through Own café, schools & colleges, Hospitals, Gyms & wellness centres, HoReCa & Market App's.

START-UP DESCRIPTION

Tiny Treats Fnb is revolutionizing healthy eating through hydroponic cultivation of nutrient-rich microgreens in a controlled, pesticide-free environment. Their sustainable farming method uses minimal water and no soil, ensuring eco-friendly production. Advanced nutrient delivery systems optimize the health benefits of each microgreen. By harvesting at peak nutritional value, they guarantee freshness and quality. Collaborating with healthcare professionals, Tiny Treats also tailors microgreen-based products to meet personalized dietary needs, promoting wellness and sustainable nutrition.

IMPACT

Improves nutritional intake, boosts energy, and enhances recovery through microgreens-based meals rich in essential nutrients.

MAJOR AWARDS/RECOGNITION

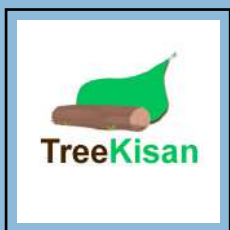
» NO

FUND RAISED

No funds raised

CATEGORIES

- » Farming/Production
- » Food manufacturing



Registered name:

Tribmoon Agroforestry private limited

Brand name of the start-up:

TreeKisan

Founder(s) Name:

Rohit Kansay

Operational in:

Punjab, Haryana, Uttar pradesh, Bihar, Rajasthan , Madhya Pradesh, Orissa, Jharkhand

Technology Readiness Level (TRL):

TRL 7. Late-stage validation (prototype runs in operational environment)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » 1. Selected in top 15 companies by The Land accelerator -South Asia 2022
- » 2. Featured in Annual Magazine 2023 of Emerging Startup by CSIR-NIScPR, New Delhi (CISR- National Institute of Science communication and Policy Research)

FUND RAISED

Grants:

25 lakh - PUSA KRISHI

2.84 lakh - WRI India

BUSINESS/REVENUE MODEL

Margins from Nursery & e market place, subscription fee through advisory.

START-UP DESCRIPTION

TreeKisan is an AI-powered platform focused on the complete life cycle of tree farming. It offers 1-minute tree valuation, AI-based quality reports, and predictive wood price insights to help farmers make informed selling decisions. The platform includes an intelligent e-marketplace that matches buyers and sellers based on real-time logistics, prices, and quality, reducing time and maximizing profits. By using field data and ML, TreeKisan ensures transparency, fair pricing, while also connecting them to quality nurseries for better plantation planning.

IMPACT

- » 5000+ tree farmers benefitted
- » 5000+ Ton CO2 stored (Carbon sequestration) as usable Wood products
- » 30% to 100 % increase in Tree farmer income
- » 500+ Tree farmer Community created and growing
- » Promotion of Agroforestry

END USERS/CUSTOMERS:

- » small ,medium , large Farmers
- » Plywood industry
- » Saw mills

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Markets



Registered name:

Varaha Climate AG Private Limited

Brand name of the start-up:

Varaha

Founder(s) Name:

Madhur Jain

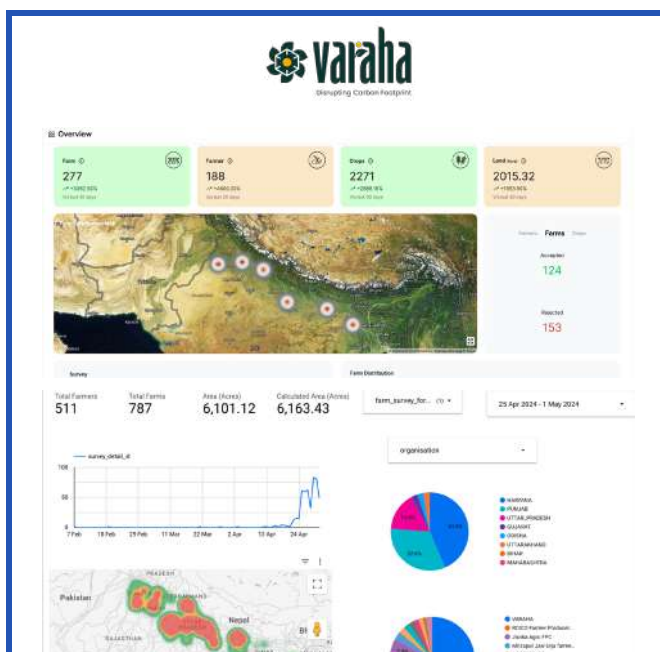
Operational in:

Haryana, Gujarat, Madhya Pradesh, Karnataka, Maharashtra, Uttar Pradesh, Uttarakhand, Bihar, Rajasthan, Kerala, Tamil Nadu, Andhra Pradesh, Punjab, West Bengal, Orissa, Telangana

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



END USERS/CUSTOMERS:

Our customers are the world's largest corporations who need to buy carbon credits for offsetting their emissions. These vary widely across geography and industry

MAJOR AWARDS/RECOGNITION

- » 1. Winners of Outcomes Accelerator announces Cohort 2 (2023)
- » 2. Madhur Jain, CEO & Co-Founder is a recipient of Henry Arnhold Fellowship 2023 from Mulago Foundation
- » 3. Speaker at the prestigious Milken Institute Global Conference 2024

BUSINESS/REVENUE MODEL

Generation & sale of high quality carbon credits

START-UP DESCRIPTION

Varaha, a leading climate-tech startup, focuses on nature-based carbon projects that help smallholder farmers adopt carbon-removal practices using advanced technology. Varaha leverages proprietary MRV technology, combining remote sensing, LiDAR, and AI-ML satellite models to estimate biomass and validate GHG emissions. With extensive data checks, soil testing, and detailed documentation, our solution ensures accurate monitoring, reporting, and the generation of high-quality carbon credits.

IMPACT

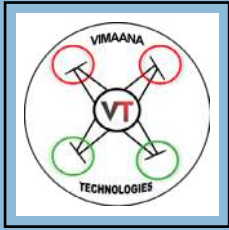
- » Enrolled over 750,000 acres of land across India, Bangladesh, Nepal, Kenya, and Tanzania.
- » Collaborated with more than 100 partners.
- » Onboarded over 80,000 smallholder farmers.
- » Sequestered over 1,700,000 tonnes of CO₂.
- » Saved 750 million liters of water.

FUND RAISED

USD 13 Million, Main investor from the latest round - RTP Global

CATEGORIES

- » Sustainability and waste management



Registered name:

Vimaana Aerospace Technologies LLP

Brand name of the start-up:

VT

Founder(s) Name:

Mridul Jain

Operational in:

PAN India

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» Best Startup innovation award for drones by Sharda university

FUND RAISED

No funds raised

BUSINESS/REVENUE MODEL

direct sale of drones (B2B) & services (B2B,B2C) & 3rd party pay load integration

START-UP DESCRIPTION

Vimaana Aerospace manufactures drones for the agriculture industry. Their flagship product, KrishiRaj 1.0, is a pesticide and fertilizer spraying drone with a 10-liter capacity, designed for various crops. Equipped with multispectral sensors, it helps farmers monitor crop health, enhancing productivity. The drone also features obstacle sensors and terrain-hugging capabilities for seamless operation, saving time, water, and pesticides while benefiting farmers' health.

IMPACT

Improved crop health, increased productivity, saved resources

END USERS/CUSTOMERS:

B2B

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection

**Registered name:**

VIR NATURALS P LTD

Brand name of the start-up:

THOOSHAN

Founder(s) Name:

VINAYAKUMAR BALAKRISHNAN

Operational in:

All India and exporting to 6 countries

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:**MAJOR AWARDS/RECOGNITION**

- » Winner of UNDP Green Innovation Fund 2020
- » National award winner of RAFTAAR ABI (GoI)2021
- » FICCI AgriTech National Award (GoI)2023
- » Winner of Startup & Idea grant by Kerala Startup Mission.2021
- » Qualified from India for World Travel Mart, London, for Responsible Tourism initiatives (Golden Award)2023
- » Invited for 'Prime Minister KISAN SAMMELAN', New Delhi (GoI). 2022
- » Invited by Govt of Jammu & Kashmir for product promotions 2023
- » Runners Up: Climathon: Organized by EY and Kerala Startup Mission 2022
- » Kerala Grassroot leader award for promoting sustainability, by Govt of Kerala, India2023
- » Best Responsible sustainable unit by Mahatma Gandhi University, Govt of Kerala2023

START-UP DESCRIPTION

Thooshan develops fully biodegradable, single-use tableware made from agricultural by-products like wheat bran, rice husk, and rice powder. The products are coated with natural binders, ensuring they are bacteria and fungus resistant. With a focus on sustainability, Thooshan's tableware has a longer shelf life, decomposes into organic manure, and can be used as cattle, poultry, or fish feed. This innovation aims to replace plastic utensils and reduce waste, promoting eco-friendly practices.

IMPACT

Reduces reliance on single-use plastic, promoting sustainable alternatives

END USERS/CUSTOMERS:

HORECA segment, Catering, Events etc as B2B and B2G

FUND RAISED

Boot strapped

BUSINESS/REVENUE MODEL

B2B, B2G, Revenue through sale of cutlery.

CATEGORIES

- » Sustainability and waste management



Registered name:

Vyanth Farm Equipments

Brand name of the start-up:

MEVA

Founder(s) Name:

Girish Kumar

Operational in:

Karnataka

Technology Readiness Level (TRL):

TRL 8. Pre-Commercialization (tech is ready for full-scale application)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» BIG grant of 50 lakhs from BIRAC

FUND RAISED

60 lakhs through government grants

BUSINESS/REVENUE MODEL

Sale of machines & services.

START-UP DESCRIPTION

Vyanth developed MEVA, a compact, semi-autonomous agricultural vehicle designed to perform multiple tasks from sowing to harvesting. With a 1HP engine, it is only 2 feet wide and 3 feet high, making it ideal for small farms. Equipped with a 4-wheel drive and robust traction, MEVA operates on challenging terrains. Controlled remotely or via a mobile app, it currently supports five implements: sowing, de-weeding, spraying, transplanting, and load hauling, with more options to be added.

IMPACT

MEVA reduces pollution by using batteries instead of diesel engines and minimizes farming drudgery with remote operation.

END USERS/CUSTOMERS:

Farmers cultivating horticulture crops

CATEGORIES

- » Pre production (seeds, fertilizers)
- » Farming/Production
- » Plant Protection
- » Harvesting/QC



Registered name:

We Are Fresh Innovations

Brand name of the start-up:

We Are Fresh

Founder(s) Name:

Sindo Vincent

Operational in:

Kerala

Technology Readiness Level (TRL):

TRL 9. Commercialization in actual operational environment

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

» Received Grant In Aid of Rs 1000000 from Central Government

FUND RAISED

INR 1000000 Central Government Grant

BUSINESS/REVENUE MODEL

B2C

START-UP DESCRIPTION

Wearefresh is an eCommerce platform that provides fresh, high-quality meat and seafood. The startup ensures superior taste, freshness, and nutritional value by partnering with trusted suppliers and maintaining strict quality controls, delivering premium products directly to customers' doorsteps.

IMPACT

Provides fresh, non-frozen seafood and meat directly to consumers through an online platform.

END USERS/CUSTOMERS:

B 2 C business model

CATEGORIES

» Allied activities



Registered name:

Yotuh Energy Pvt. Ltd.

Brand name of the start-up:

Yotuh Energy

Founder(s) Name:

Dharmik Bapodara

Operational in:

Tamil Nadu

Technology Readiness Level (TRL):

TRL 7. Late-stage validation (prototype runs in operational environment)

PRODUCT IMAGES:



MAJOR AWARDS/RECOGNITION

- » Won the grants (Total 67 Lakhs INR) from: Ministry of Agriculture & Farmers Welfare, Dept. of Science & Technology, US Embassy to India (Nexus Program)
- » Won "The next start-up dragon award" by IvyCap ventures & "The rising Star" award by WEE Foundation
- » Incubated at IIT Madras and Daimler India Joint Incubation
- » Part of following accelerator programs:

FUND RAISED

- 1) 25 Lakhs grant from RAFTAAR - PABI (By Ministry of Agriculture & Farmers Welfare)
- 2) 20.5 Lakhs grant from ACUMEN - startup Technical Assistant grant (\$25,000)
- 3) 10 Lakhs grant - NIDHI PRAYAS Scheme - FiiRE, Goa (By Dept. of Science & technology)
- 4) 10 Lakhs seed grant - Daimler India Commercial Vehicles (Incubator)
- 5) 10 Lakhs seed fund - IIT Madras Incubation Cell (Incubator)
- 6) 8 lakhs grant award - NEXUS Program (US Embassy to India)
- 7) 5 Lakhs - Carbon Zero Challenge 4.0 winner (By IIT Madras)
- 8) 3.6 lakhs grant - NIDHI-EIR scheme - IIM Udaipur (By Dept. of Science & technology)

START-UP DESCRIPTION

Yotuh provides an electric refrigeration system for cold chain logistics vehicles, enabling affordable, sustainable, and efficient transportation of perishables like ice cream, meat, and pharmaceuticals. The system is vehicle-independent, equipped with adaptive cooling controls, and reduces refrigeration running costs by 80%. It is the first to convert small cargo vehicles into refrigerated units. Both SCVs and EV 3Ws can be refrigerated, doubling profit margins and reducing the total cost of ownership (TCO) by 35%, ensuring better access to refrigerated delivery.

IMPACT

Saves 3,500 kg of CO2 annually, reduces fuel consumption by ~1,000L/year, increases fleet operators' profit margins by 10%, and creates new cold chain market opportunities in India.

BUSINESS/REVENUE MODEL

Product sale, after sale service & subscription.

END USERS/CUSTOMERS:

Our customers are Fleet operators (Who own the refrigerated trucks) as well as some end users (Companies/distributors) who have their own fleet of vehicles to transport the temperature controlled goods. Cold chain vehicles carry goods like agricultural produce, fruits, vegetables, meat, dairy products & critical items like Vaccines & other pharmaceuticals. Enabling new players to serve the cold chain and satisfying the current demand of refrigerated transport will have an impact on many countrymen where these products/services were not possible to reach.

CATEGORIES

- » Storage & logistics

The AgriTech Landscape: A Closer Look at Emerging Startups

Agritech Landscape: Insights from 71 Startups in the Agricultural Ecosystem

The agricultural ecosystem is undergoing a transformative shift, fuelled by technological innovation and evolving market dynamics. In this rapidly changing landscape, agri-tech startups are playing a pivotal role in driving efficiencies, sustainability, and improved productivity across the value chain. To gain a deeper understanding of the startup landscape in agriculture, RICH recently conducted a survey, gathering responses from 71 agri-startups. While this represents a small subset of the more than 3,000 agri-startups currently operating in India, it provides valuable insights into the emerging trends, challenges, and opportunities within the sector. Each startup surveyed falls under one or more of the multiple segments of the agricultural value chain, reflecting the diverse nature of innovation across the industry.

This compendium offers a comprehensive analysis of these 71 startups, categorized across 13 segments of the agri-food value chain. The analysis highlights the key activities, opportunities, and challenges startups face, offering a clear picture of where innovation is thriving and where additional efforts are required to scale solutions. The insights below offer a ringside view of the potential opportunities for innovative startups in the agri-tech space.

1. Pre-production (Seeds, Fertilizers) – 31 Startups

Insight: This segment sees a substantial number of startups, focusing on seeds, fertilizers, soil testing, and other agri-inputs. The high representation indicates strong entrepreneurial efforts to enhance productivity from the outset of the agricultural process.

Highlights:

- » **High Demand for Productivity Improvements:** A growing need for high-quality, efficient pre-production inputs to boost crop yields and reduce dependence on traditional farming methods.
- » **Technological Advancements:** Innovations in genetics, bioengineering, and precision agriculture are driving growth in this segment. Startups are offering advisory services, data-driven insights for the right application of inputs, and sustainable solutions such as biologicals to minimize chemical use.
- » **Bio-fertilizers:** There is significant action in the bio-fertilizer space, with low entry barriers (low investment, lack of strict standards and regulations) encouraging more startups.

2. Farming/Production – 35 Startups

Insight: With the highest number of startups, this segment focuses on farming and production processes, reflecting the central role of innovation in farming practices, challenging / improvising traditional methods.

Highlights:

- » **Rising Demand for Automation:** A notable shift towards automation in agriculture due to labor shortages, with innovations like multi-function tractors, drones for crop monitoring, robots, and smart irrigation systems.
- » **Sustainability and Efficiency:** Startups are focused on optimizing resource usage, reducing water consumption, and minimizing environmental impact, becoming increasingly critical in the face of climate change.
- » **Smallholder Farmers in Focus:** Many startups are targeting smallholders, offering solutions such as mobile apps and IoT devices that deliver real-time data to enhance productivity and profitability. Customised services for small farmers based on emerging technologies may hold key for the future in this segment.

3. Plant Protection – 30 Startups

Insight: The plant protection category, encompassing pest control, disease management, and crop health monitoring, AI tools for early pest detection, sees a significant number of startups, addressing growing concerns about pests and crop diseases. Optimum usage of pesticides, where drone solutions are available, helps in precise application and provides safer alternative spraying methods for farmers.

Highlights:

- » **Challenges with Pesticide Resistance:** Overuse of traditional chemicals is leading to resistance, creating a market opportunity for more effective and sustainable solutions that promote judicious use of, or even reduce the reliance on chemicals.
- » **Shift Toward Biocontrol and Natural Solutions:** Increasing interest in organic solutions, biopesticides, and integrated pest management (IPM) systems is driving innovation in this space.
- » **Health and Environmental Concerns:** Consumer demand for safer, non-toxic plant protection alternatives is on the rise.
- » The lack of standards for new biological solutions in plant protection and the low investment requirements might make it easier for startups to enter this space.

4. Harvesting/Quality Assessment(QA) – 10 Start-ups

Insight: Harvesting and quality assessment face challenges in automation, reliability and higher investments resulting in fewer start-ups in this specialized area.

Highlights:

- » **Technological Barriers:** Harvesting remains labour-intensive, and automated solutions are expensive, not suitable for Indian conditions and often not feasible for small-scale operations.
- » **Reliability and TAT Issues in Quality assessment:** Existing mechanisms fall short on TATs and reliability for diverse crops and small landholdings providing significant opportunities for innovative start-ups
- » **Seasonality:** The seasonal nature of harvesting and poor quality control focus poses challenges for startups in farmer adoption.
- » **Opportunities:** Equipment as a service for harvesting, quick and portable quality assessment solutions, Innovations in blockchain for Quality assurance look promising in this area.

5. Processing/Value Addition – 8 Startups

Insight: The processing and value addition segment has fewer startups, but it remains a critical area for increasing profitability and enhancing product value. This includes primary and secondary processing/value addition of agricultural products to make them consumer ready.

Highlights:

- » **Capital-Intensive Nature:** Setting up processing units or manufacturing value-added products requires significant capital investment as well as higher working capital requirement for operations.
- » **Regulatory Challenges:** Food safety regulations, certifications, and quality standards can be challenging for new entrants.
- » **Opportunities :** Established players dominate this space, however innovations to optimise supply chains, emerging technologies, micro processing equipment to enhance consumer value and government support provide opportunities.

6. Storage & Logistics – 6 Startups

Insight: Storage and logistics, especially cold chain solutions, have fewer startups despite growing demand for improved infrastructure.

Highlights:

- » **Infrastructure Challenges:** The logistics and storage sector is highly infrastructure-dependent and inadequacy of the same poses significant barriers to entry for startups.
- » **High Investment Barriers:** Unlike tech-driven solutions in other segments, logistics startups must invest in physical assets, such as storage units and transportation infrastructure.
- » **Supply Chain Complexity:** Fragmented supply chains in rural areas result in inefficiencies, and the lack of reliable facilities can be a challenge, however innovations built on existing infrastructure and government support can provide significant opportunities in this space.

7. Markets – 12 Startups

Insight: The markets segment, which includes direct-to-consumer platforms, agricultural e-commerce, and market linkages, has seen moderate startup activity.

Highlights:

- » **Digital Transformation:** As farmers increasingly adopt smartphones, digital platforms for selling produce are gaining popularity.
- » **Supply Chain Transparency:** Consumers are becoming more conscious of the origins of their food, prompting a rise in platforms that connect farmers directly with consumers.
- » **Challenges of Scale:** While these platforms show great potential, scaling them across diverse regions and ensuring quality at delivery remains critical for success. Startups are turning to blockchain-based traceability to improve trust and transparency in the supply chain.

8. Sustainability & Waste Management – 13 Startups

Insight: Startups in this space are addressing the critical need for climate-smart, sustainable practices through waste management, renewable energy integration, and waste-to-wealth solutions.

Highlights:

- » **Environmental Focus:** Climate change and resource conservation are driving innovation in waste management and renewable energy solutions.
- » **Opportunities:** Increasing investor interest in ESG-focused startups, carbon credit markets and policy support for sustainable practices is encouraging growth in this segment.
- » **Challenges:** High implementation costs for renewable energy and uncertainty/ complexity of carbon credit mechanisms to benefit farmers/growers

9. Financial Services – 2 Startups

Insight: Financial services startups are limited due to regulatory and procedural complexities and trust issues among farmers, but they play a crucial role in enabling access to credit and risk mitigation.

Highlights:

- » **Barriers:** Low financial literacy and trust in financial institutions, particularly among rural farmers, create challenges for scaling financial solutions.
- » **Opportunities:** Data-driven credit scoring models and partnerships with traditional financial institutions offer significant growth potential. Satellite and geospatial data based mapping of land and crop parameters, monitoring crop growth and yield predictions can be key for growth in this segment.

10. Allied Activities – 9 Startups

Insight: Allied activities startups fall under sectors such as livestock, poultry, fisheries, and apiculture, with a focus on animal management systems, animal health diagnostics, sustainable feed solutions, and precision hive management. While there is ample scope of innovation in this space, high barriers of entry and exit, low awareness among innovators and entrepreneurs, limited accessibility to information & data and significant government presence may pose to be the constraints.

11. Food Manufacturing – 4 Startups

Insight: The food manufacturing sector, though limited in terms of startups, is gaining traction due to growing interest in alternative proteins, functional foods, and nutraceuticals. Many food manufacturing startups are likely to go under the radar due to less reliance on incubator support and have low entry and exit barriers owing to lesser investment requirement.

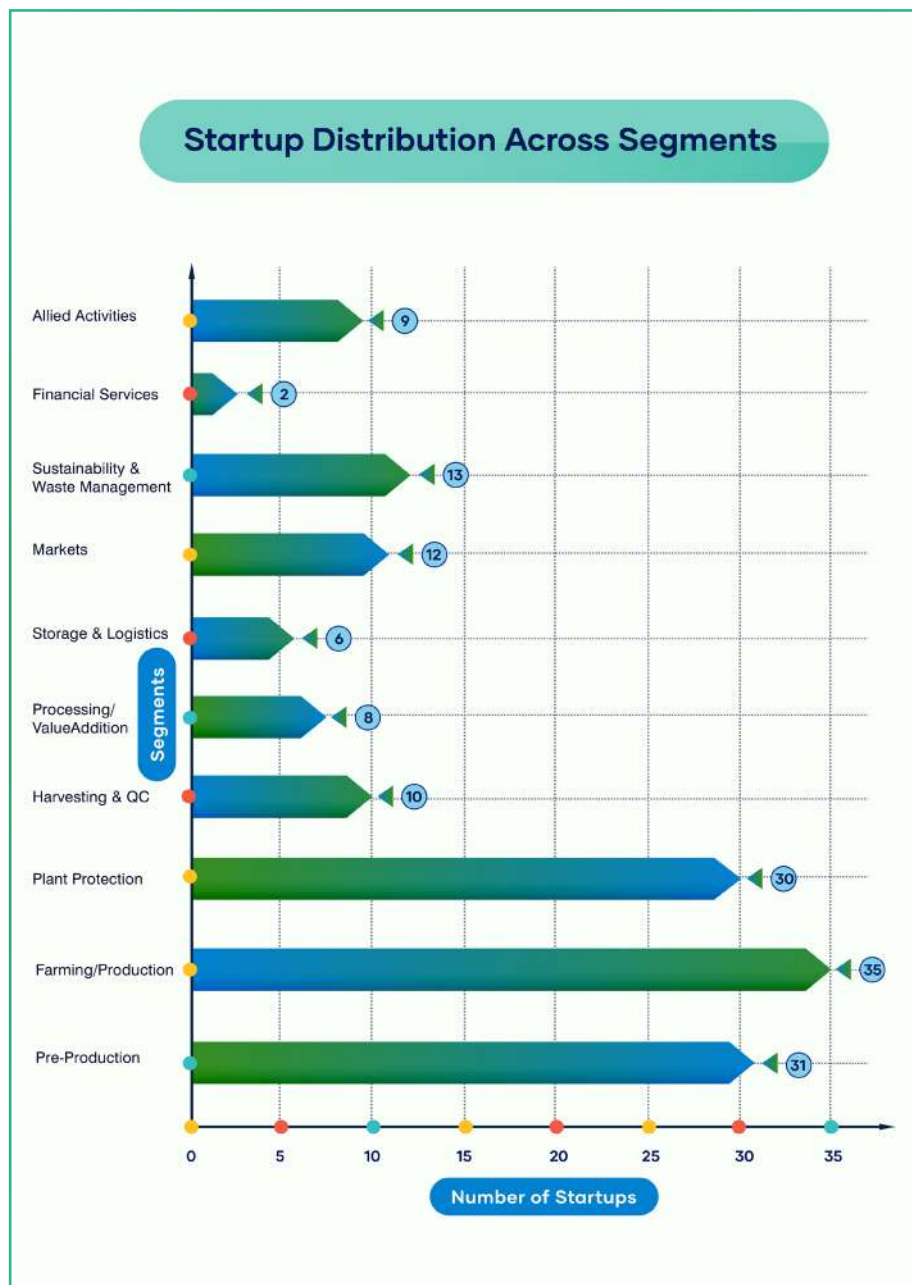
Opportunities: Innovations in micro-processing, innovations in food product development especially plant-based proteins and functional foods are expected to drive future growth in the sector with the increasing consumer demand for health-centric and sustainable food options.

12. Food Supply Chain and QSR

There are no startups recorded in the compendium for the food supply chain and hospitality segment including quick-service restaurant (QSR) categories. Many startups in hospitality go under the radar due to low entry and exit barriers, fewer incubators having innovations in food sector as a focus area.

The agricultural value chain presents a broad spectrum of opportunities for startups, particularly in areas like pre-production, farming, and plant protection. However, the post-harvest segment has seen less action from startups, and there is significant room for innovation. By addressing issues related to food storage, logistics, waste management, and processing, startups can play a pivotal role in transforming the agricultural sector while contributing to sustainability and food security. The key challenge lies in overcoming infrastructure barriers and scaling solutions, where the potential for high-impact solutions is enormous. There is little scope of success that can be isolated segment wise and needs a collective approach. Success of startups working on innovations in a segment is dependent on one or more innovative solutions in other segments upstream or downstream. Startups that spread themselves across the multiple segments face either capital issues or lose focus. Relying on startups in other segments may increase dependence and reduce its capability and control. Collaborations among startups across the agri-food value chain, industry, academia, research institutions and support from the government can significantly strengthen the ecosystem, enhancing prospects for success and accelerating the development of integrated, sustainable systems.

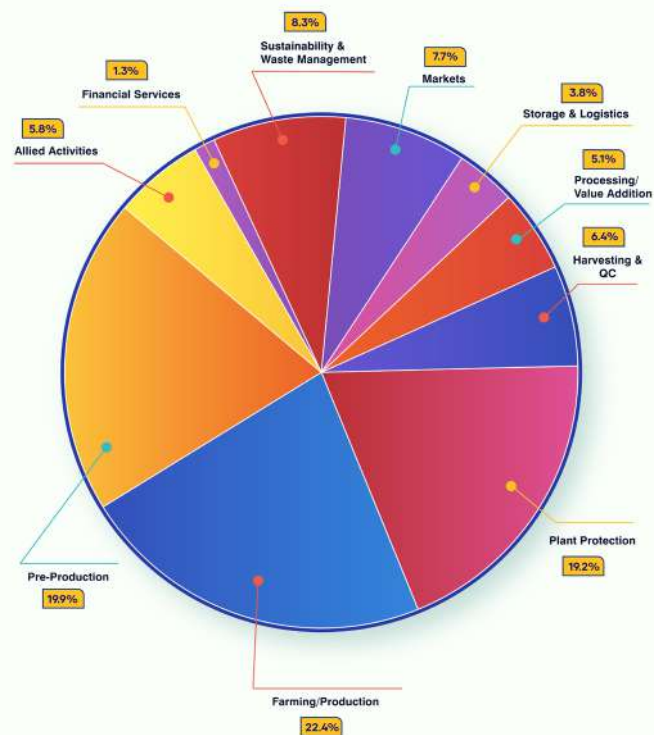
Disclaimer - The insights presented in this compendium are based on the responses received from 71 agri-tech startups, which are assumed to be a representative sample of the broader agri-tech ecosystem. These insights reflect our understanding of the current trends, challenges, and opportunities within the sector. However, they should not be considered as definitive or factual data, as they are derived from a limited set of startups. The findings may not fully capture the diversity and scale of the entire agri-tech landscape.



Startup Distribution Across Segments (Radial Chart)



Startup Distribution Across Agri-Segments (Pie Chart)



BRIDGING THE GAPS: INSIGHTS INTO SUPPORT NEEDS OF AGRICULTURE START-UPS

As part of the compendium, RICH has identified key support areas that start-ups in the Agri and allied sectors are seeking. The data collected offers valuable insights into the assistance required for these start-ups to grow and scale their operations.

- » Out of 71 start-ups, The highest percentage (87.3%20%) of start-ups indicated funding as their primary area where they require support. Funding is critical for start-ups, particularly in the Agri-tech domain, which often requires investment at various stages—seed funding for validation and product development, working capital for operations, and growth funding for scaling and commercialization.
- » Followed by Industry connects (78.9%18%) as a vital enabler to bridge the gap between innovation and market demand. Connections with industry can facilitate pilot projects for start-ups, co-development of solutions, commercialization, and market entry.
- » Investor connects (71.8%16%) for growth capital, to pitch and secure investments post seed funding for growth. Agri-tech start-ups often face longer timelines to show results, rely on factors like weather, and struggle with slow market adoption and hence need patient capital. These challenges can make it harder to attract quick and large investments.”
- » B2G (66.2%15%) opportunities are highly sought after, with start-ups aiming to work on public projects, government tenders, and large-scale rural implementations. Engaging with government projects allows start-ups to implement their solutions on a larger scale, particularly in rural areas, where agricultural challenges are most acute. B2G is very crucial for Agri start-ups as Governments often have access to extensive networks of farmers and resources that start-ups can leverage. B2G partnerships can increase visibility for the start-ups and help start-ups navigate government policies and access subsidies, grants, or schemes aimed at promoting innovation in agriculture. These initiatives often provide a stable revenue stream, visibility and credibility. Government is actively seeking innovative solutions to improve agricultural productivity, reduce post-harvest losses, increase farmers income and ensure sustainability. Start-ups with viable solutions are natural partners. However, tapping B2G opportunities can be challenging due to bureaucratic hurdles, lengthy approval processes, and payment delays.
- » Validation trials (45.1%11%) -Validation of technology solutions through field trials and testing facilities emerged as another key need. Validation trials are essential for demonstrating the efficacy of products or services, especially in agriculture, where trust and reliability are crucial. However such validation trials require longer time and can be a major challenge when suitable infrastructure and facilities are inaccessible. Successful validation enhances credibility, paving the way for partnerships, funding, and market entry.
- » Capacity building workshops (33.8%8%) play a pivotal role in equipping Agri start-ups with the knowledge, skills, and tools with respect to fund raising, market strategy and branding, regulatory & compliances needed to navigate challenges and scale their solutions effectively.
- » Technology access (31%7%) and IP support (22.5%5%). Access to advanced technologies and infrastructure is crucial for product refinement and scaling. Many Agri start-ups are in early stages where their priority is market entry, operations and revenue generation rather than intellectual property protection. Further cost constraints and regulatory hurdles also pose a significant challenge in this regard.

The participating start-ups are incubated at multiple incubators and the support areas listed above underscore the need for a robust ecosystem approach that is tailored to the unique needs of Agri start-ups. By addressing the identified gaps collaboratively, the stakeholders in Agri start-up ecosystem can empower start-ups to drive innovation, improve agricultural productivity, increase farmer income and contribute to sustainability in the sector.



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