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Govt. of Telangana.



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Hon'ble Minister for IT &C,
Industries & Commerce & Legislative Affairs,
Govt. of Telangana.

ఇంటింటా
Innovator



TGIC
ఇంటింటా ఇన్నోవేటర్



INNOVATIONS 101

Innovating for Change: Stories of Telangana's Grassroots Champions



First-of-its-kind state publication on Grassroots Innovation

Special Thanks

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Printed and Published by

Telangana Innovation Cell, T-Hub 2.0, 3rd Floor, Cabin 17,
Plot No 1/C, Sy No 83/1, Rai Durg, Hyderabad, Telangana 500081

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ABOUT TELANGANA INNOVATION CELL

Telangana Innovation Cell (herein referred to as TGIC Foundation) is an initiative by the Information Technology, Electronics & Communications Department, Government of Telangana. TGIC was set up in 2017 under the State Innovation Policy with a vision— to build and nurture the Culture of Innovation in the State of Telangana. Today, it acts as the first response of the State Government for identified innovators, start-ups, entrepreneurs, and innovation catalysts to foster an inclusive innovation ecosystem with State-as-a-whole-approach. It is driven by three mandates:

- To scout, recognize, & disseminate the Grassroots & Rural Innovations.
- To strengthen the Inclusive & Social Innovation Ecosystem.
- To promote Innovation in Government & Administration.

Telangana is the one of the first states in the country to have dedicated policies and frameworks for its Innovation ecosystem:

State Innovation Policy: The state had launched an Innovation Policy in 2016 that aims to boost innovation and entrepreneurship, leveraging upon its natural demographic assets with the help of skilled technology and research professionals. The state has a unique model in the country for developing a robust startup ecosystem and runs with an objective to foster an innovation-driven economy.

Grassroots Innovation Framework: The diversity of the state of Telangana and myriad of opportunities to contribute to the economic and social welfare of its populace, convinces of the critical role of Grassroots Innovation in the next spurt of growth, inclusive development, and multiple clusters of economic prosperity. The Grassroots Innovation Framework, which has been envisaged for a period of 5 years, 2020-2025, aims at bridging the existing gaps, and to further nurture the existing Grassroots Innovation ecosystem into becoming a robust one.

Social Innovation Policy: This is driven by three principles: Collaborate, Innovate and Transform. This policy intends to stimulate the development of a social innovation ecosystem by establishing a framework that will provide the structures, resources and intermediaries necessary to foster social innovation.



FOREWORD



Shri Duddilla Sridhar Babu
Hon'ble Minister for IT E&C,
Industries & Commerce & Legislative Affairs,
Govt. of Telangana.

It is with immense pride that I introduce 'Innovations 101', an exclusive coffee table book curated by the Telangana Innovation Cell (TGIC). This publication serves as a first-of-its-kind tribute to the remarkable innovators hailing from the rural heart of Telangana.

The Government of Telangana has consistently championed the importance of grassroots innovation. We established TGIC with a dedicated policy framework to nurture these ingenious solutions emerging from our villages and districts. 'Innovations 101' is a testament to the success of this vision.

This book features the inspiring stories of 101 such innovators. These individuals, scouted and supported by TGIC, hail from all corners of Telangana – diverse districts and villages. What unites them is a remarkable characteristic: the fire in their belly to solve problems. Limited resources couldn't dampen their determination. Fueled by a clear vision to address challenges faced by their communities, they persevered with unwavering belief and unwavering zeal.

The innovations showcased here address a wide spectrum of issues – from agricultural difficulties to water scarcity, from effective waste management to environmental concerns, from social challenges to those faced by the construction sector. The age range of these innovators is equally inspiring – from a young mind of 12 to a seasoned individual of 70, we have school children, women, and homemakers leading the charge.

Their journeys demonstrate the immense potential and entrepreneurial spirit that resides within our rural communities. More importantly, they showcase the transformative power of innovation. These individuals are not simply inventors; they are changemakers, driving progress and improving lives. Their unwavering dedication, even with limited resources, serves as a beacon of inspiration, urging us all to push boundaries and build a brighter future.

'Innovations 101' also underscores a powerful message: the desire to alleviate societal challenges can foster a powerful entrepreneurial spirit focused on social good. This book serves as a testament to the ingenuity that flourishes even with limited resources.

I commend TGIC for their unwavering dedication to nurturing Telangana's innovation ecosystem. The Government of Telangana is incredibly proud to support their efforts in showcasing this vibrant landscape to the world. Through this book, let us celebrate the brilliance of our rural innovators and draw inspiration from their remarkable journeys.

This book is not just a celebration of their ingenuity; it's a beacon of hope and a call to action. We encourage readers to be inspired by these stories and share them widely. Let these examples ignite a spark in others, encouraging them to identify problems and become innovators themselves.

The Telangana government, through TGIC, stands firmly behind all aspiring innovators. We are committed to providing the necessary support to translate their ideas into reality. This book serves as a testament to that commitment. We assure you that the Government's doors are always open to assist you in transforming your vision into a tangible solution that benefits our society. Together, let's make Telangana a hub of grassroots innovation!

Thank You!

FOREWORD

Ever since the formation of Telangana State in 2014, fostering a vibrant ecosystem of entrepreneurship and innovation has been a top priority for us. However, a crucial piece of the puzzle remained missing: the invaluable contributions of our talented rural communities. Recognizing this untapped potential, the Telangana Innovation Cell was established in 2017 with a core mission to: identify, empower, and celebrate the hidden gems of innovation that thrive within Telangana's rural landscape.

We have long recognized the brilliance and ingenuity embedded in the solutions developed by our rural communities. All too often, these remarkable achievements are dismissed as mere '*Jugaad*.' However, these communities, facing unique challenges head-on, have developed practical and effective answers to everyday problems in agriculture and other vital areas. It is our firm belief that these local innovations hold immense potential for further development and wider application.

Through flagship initiatives like '*Intinta Innovator*,' we actively identify and support these rural problem-solvers. Our commitment goes beyond mere recognition and we remain steadfastly dedicated to improving and scaling these solutions by leveraging the collective strength of other entities within the Telangana Innovation Ecosystem. And to celebrate the lives and craft of these remarkable innovators, we have compiled their stories and innovations in this commemorative coffee table book. This beautifully designed publication offers a glimpse into the remarkable ingenuity and resilience that defines Telangana's rural communities. Looking ahead, we remain steadfast in our commitment to scaling up our efforts, ensuring that the spirit of innovation flourishes throughout every corner of our state.

Thank You!



Shri Jayesh Ranjan, IAS
Special Chief Secretary, IT & C Dept.
Govt. of Telangana.

FROM THE CIO'S DESK



Ajit Rangnekar
Chief Innovation Officer,
Govt. of Telangana

It is with immense satisfaction and gratitude that I present this book which covers the unwavering spirit of innovation that thrives in the heart of Telangana.

From the very inception of Telangana Innovation Cell in 2017, fostering grassroots innovation has been a core mission and this book is the summary of the journeys of the unwavering passion displayed by just 101 of the countless innovators who are featured in these pages.

Our mission isn't just about scouting the local talents across all districts and villages of Telangana but it is to cultivate a thriving ecosystem for them. Flagship Initiatives like the '*Intinta Innovator*' campaign became our boots on the ground, trying to reach every nook and corner of the state.

During this journey, we encountered a remarkable common thread – a burning desire among people to solve the problems they face, irrespective of resource constraints.

These individuals, ranging from young school children to adults to seniors, from adolescent girls to full time homemakers, represent the incredible diversity of Telangana's innovative spirit. Their stories, chronicled within these pages, showcase a wide variety of ingenious solutions tackling issues as critical as agricultural challenges, water scarcity, sanitation, hygiene and environmental concerns etc.

This book is an attempt to celebrate the grit, ingenuity, and the unwavering spirit of the first group of 101 innovators. It's a testament to the power of collaboration – between the government, passionate individuals, and dedicated scouting partners. As you delve into their inspiring stories, I urge you to share them widely, to spark a fire within others. Let these stories be a catalyst, encouraging individuals to identify problems within their communities and become the next generation of innovators.

The journey of this book wouldn't have been possible without the invaluable support from organizations like Palle Srujana. Their deep understanding of rural communities proved instrumental in identifying these hidden gems. Their tireless efforts ensured that no innovator, no matter how remote their location, was left behind. They have been instrumental in providing local guidance and support at each step.

And remember, this is just the beginning. Many more inspiring stories are waiting and Telangana Innovation Cell remains committed to fostering a vibrant ecosystem where every citizen of Telangana can dream to be an innovator.

Let us celebrate these pioneers, and together, propel Telangana to the pinnacle of grassroots innovation.

Happy Reading!

ABOUT GRASSROOTS INNOVATION

Necessity is the mother of Innovation. Time bears testimony to the fact that the best ideas often come from those who face challenges head-on and are closest to the problems they aim to solve. Communities and ideas are at the very heart of Grassroots Innovations. Typically, Grassroots Innovations are born out of a pain point. With limited access to resources, education and opportunities, the Grassroots Innovators conjure their own solutions to address their grievances. They exhibit the power of local knowledge and resources to create sustainable and impactful solutions. They may lack the access to marketing and branding, funding or scaling like the conventional products, but they are extremely efficient and cost effective, making them affordable and accessible. Integrated with a bottom-up growth approach, these Innovations are epitome of local communities' resilience, creativity and capacity to empower themselves.

Innovation doesn't just come from giving people incentives; it comes from creating environments where their ideas can connect. Telangana Innovation Cell has thrived to create an enriching space for Rural Telangana's conflux of tradition and creativity. This coffee table booklet – *'Innovations 101'* is a celebration of the remarkable rural innovations that embody the spirit of resilience and creativity in Telangana. These innovations reflect the deep-rooted wisdom of rural communities and their unwavering drive to enhance their way of life.

This booklet bears testimony to the transformative power of creativity and local awareness, revealing how Grassroots Innovations can inspire and impact the communities towards sustainability and empowerment.



Sohel Khan
Lead-Grassroots Innovation
Telangana Innovation Cell

INDEX

AGRICULTURE SECTOR

01 Farmneed Pro - Angshujyoti Das

02 Scooter Weeder - Arige Balaiahn

03 Multipurpose Agriculture Tool
- Ashok gorre

04 IoT Based Cooling Chamber
- B Lingam

05 Multipurpose Spray Pump
- Bairi Vijay Kumar

06 Fertiliser Spreader solar base cycle
- Bandi Lavani

07 Current Shock Technology
- Banothu Sipaye Nayak

08 Farm Weeding Tool
- Bosetti Bhagath Prashanth

09 Seed Sowing Shoe for Farmer
- Ch Pallavi & P Bhavani

10 SCIPMS- Chilakabathini Divya Sri

11 Multipurpose Harvester
- Deepak Reddy Kongari

12 AGRO - Durga Prasad and Team

13 Instant Paddy Dryer (Multi Purpose
Grain Dryer) - Gone Kishan Kumar

14 Dung cleaning robot
- Itharaju Naveen, Jayanti Sai Kiran

15 Sonic Airtek- Pneumatic Grain
Conveyor- K Uday Bhaskar

16 Viper - K Shiva

17 Mechanical Turn On/Off Valve System
- M Gopal Singh

18 Paddy filling machine
- Marripally Abhishek

19 Three wheeler mobile multi crop thresher
machine - Mohammed Khaja Moinuddin

20 Mini Loader -2020
- Naveen Kumar Sri Ramula

21 Multipurpose Umbrella for Farmers
- Pothuri Ravinder

22 Karshaka mithra
- Rachana, pragathi, Ramya, shirisha

23 Electronic grain dryer
- Rakesh Reddy Bokuri

24 Fertiliser Laying Machine
- Seelam Satyanarayana Reddy

25 Paddy Spring Weeder
- Shamanthula Anil kumar

26 Six rows rice transplanter (battery
operated) - Shanmukha Rao Repalle

27

Electric Tractor – Shashirath Reddy Mula

28

TECHREDI – Tejaswi Velugapally & Team

29

Grim Reaper Binder – K Thangamani

30

Easy Fertiliser Dispenser – V Sreeja

31

Kisan remote – Velle Srinivas

32

Kalupu yantram
– Venkataiah Koil Chinnadarpally

33

Multipurpose Bag For Agricultural Use
– Venu, Rajesh & Abhishek

34

Incense Sticks from Floral Waste
– Vyapana Sudheer

35

The Guardian Cane – Kummari Shravani

36

Magic Sprayer – Thotakura praveen yadav

Assistive Technology

37

Multipurpose Walking Device For
Disabled People – Macha Rajitha

38

Powered Wheelchair without
handlebar – Polasa Hari Krishna

39

A helmet for the hearing impaired
– Sk Rajalipasha

40

Bed Rope Lader – T Mallikarjunudu

Education Sector

41

Intertperso – Rahul Rathod

42

Make a Change – Rishith chintala

43

She (For us) – Saniya Anjum

44

Smart Desk for Pre-primary Students
– Talari Thrinidhi

Energy Sector

45

KAMMA Gear Flywheel Technology
– Dr. Srinivas Bhaskar Chaganti

46

Automatic on/off street light
– Edlapuram Shashidhar

47

Solar Cooker (Solar Powered Apparatus)
– Ravuri Brahmananda Chari

Environment and Sustainable Development

48

DSP Self Charging Electric Bicycle
– Addula Sai Siddartha Reddy & Team

49

Hyacinth Remover – Godasu Narsimha

50

The Plastic Hub – Vinith Reddy & Team

51

Automatic street lights control system
– Raju Mupparapu

52

Cob Hardboard – S Janakamma

53

Biopot Made With Groundnut Shell
- A Srija

54

Conversion of waste plastic into useful bricks,
tiles, paving blocks & roads - B Varshini

55

High - speed incense stick making
machine - Samyuktha Penta

56

Porcini Parcels - Vadla Pranavi

57

Bio-compostable bags
- S Pratibha Bharathi

58

Compost seed paper
- Arunjyothi S Lokhanday

Food Tech

59

Maize Heat Device
- B Vinat Varma & Team

60

Bonda Making Machine
- Janke Srinidhi

61

Agriculture Sprayer Drone
- Santhosh Kumar Shashani

62

Jeeva cold room - Vishal singhal

Health & Medicine

63

E - printing of doctor's prescription
- A Aniketh & Team

64

Multipurpose cot for bed ridden
patients - Alladi Prabhakar

65

Water Purifier - Chagarla Saicharan

66

Alpha Monitor - Hemesh Chadalavada

67

Switch-Phone - Nandagiri Aditya

68

PN Mask - Nikil Darshanam

69

Organic Chalk - P Harshit & K Rudra

70

Helping Hands for Old Aged/Patients
- Panduga Sahasra

71

Non-Invasive Point of Care Diagnostics for
sickle cell disease - Poongothai Ayepalayam

72

Intravenous Fluid Indicator
- M Sharmila & Team

73

HYGEIA - Shравanthi Jandanelly

74

Hydraulic Lifting Wheelchair
- Sk Basheera

75

Herbal Nutrition Products - Sridatta
Nutrition - T Sridevi

76

Emergency medicine vending machine
- T Bhavya Sree & Team

Handloom Sector

77

MODHA Pedal Operating Machine for
Handlooms - Sivakumar Modha

Manufacturing

78

Spring Loaded Rotational Multiplayer
Machine - Gundeti Madhu

79

Mother – Side Cradle – P Aruna

80

Vasavi Motors – P Venkatesham

81

Mahila Vantamitra – P Vinila

82

Advanced Method of Making Jewellery
Masterpiece for Moulding and Vacuum
Casting – R Ravikanth Chary

Mobility Sector

83

Electric Truck Carrier
– B Vivekananda chary

84

Rice Shifting Bag – G Nithin & Team

85

Electric Car – T Beechupally

86

Bike carrier cum vending cart
– S Akhil, Vignesh and Deepak

Safety & Security

87

Suraksha – Grahya Yalavarthy

88

Mahila Suraksha Band
– Ishanvi Chaudhary & Tream

89

Compost seed paper
– G Navaveen Yadav

90

Women Safety Hair Rubber Band
– S Pooja

91

Semi Automated Robot
– Saikumar pillutla

92

Self Security Bangle – Hareesh Gadi

93

UV Sanitation Box
– Pasaragonda Ramakrishna

94

Samskar Toy – Yakara Ganesh

Sanitation & Waste Management

95

Smart E-Dustbin
– Kanukuntla Rajashekhar & Boddula Navaneeth

96

Organic Zero Waste – Sthree Raksha Pads
– Dheeravath Anitha

97

Multipurpose Portable Room
(Umbrella toilet) – Katta Nagarjuna

98

Height Adjustable Urinal Flusher
& Washbasin – s Shivakumar

99

Automatic Toilet Cleaning Machine
– MD Uzair & Team

100

Garbage Bin Monitoring and
maintenance – Shreeya Pallerla

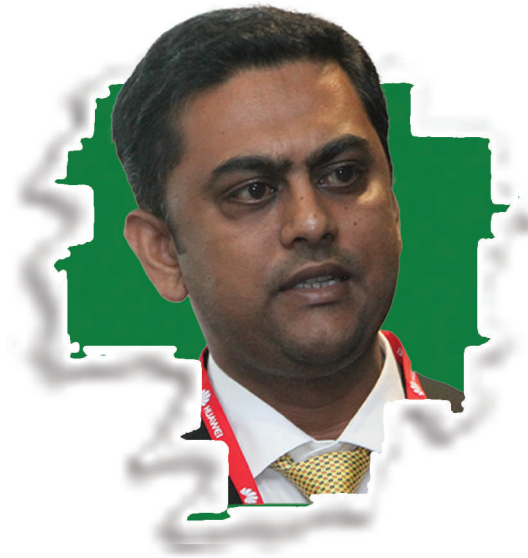
101

Incinerator and Sanitary Vending
Machine – Vishwaja Reddy

FARMNEED PRO



Innovation sparks societal evolution, pioneering positive change and propelling communities towards a sustainable future.



ANGSHUJYOTI DAS

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-  Entrepreneur

The Story

In 2008, Angshujyoti faced a setback in a sustainable tourism project, prompting introspection. Witnessing the challenges farmers encountered due to climate uncertainties ignited his drive for positive change. Motivated by resilience, he channelled his experience into an innovative solution, aiming to empower farmers. Das's commitment to sustainability inspired the creation of a system guiding farmers through climate risks, fostering resilience and optimising yields.

About Innovation

Founded in 2020, Farmneed pioneers agri-tech with an AI-driven mobile platform. Integrating micro-climate data and crop genetics, it guides farmers from seed to harvest. Tackling climate risks, it offers plant-specific weather insights and fertigation advice, optimising per-acre yield. With a successful run, it earned global acclaim at MWC Barcelona in 2016 and secured a Rs. 2,00,000 T-SIRI grant from Telangana Innovation Cell.

Advantages

- Reduced Pesticide usage
- Enhanced Food safety

Applications

- Small and large scale farms
- Sustainable agricultural projects
- Agricultural research & development

Key Features

- AI driven actionable advisory
- Hyperlocal weather forecast
- Community forum & podcast

Current Stage of Innovation

- Market Ready



SCOOTER WEEDER



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- Welding Work

The Story

Balaiah, a welder by profession but also into agriculture, wanted to address a common challenge for farmers - stubborn weeds in his cotton fields. This encounter propelled him to explore effective methods, driving his commitment to finding a solution that would not only address his immediate challenge but benefit farmers grappling with similar issues in their fields.



About Innovation

The Scooter Weeder, a device optimising ploughing efficiency with minimal fuel consumption, is quite useful for diverse crop cultivation. This innovation accelerates the ploughing process, empowering a farmer to cover an acre in just an hour, significantly boosting productivity. A real-world solution, it stands as a testament to addressing agricultural challenges, enhancing the well-being of both farmers and their crops.



Advantages

- Weed-Free Farming
- Efficient Ploughing
- Diverse Crop Usage



Applications

- Farm Mechanization
- Crop diversification
- Weed Control



Key Features

- Plougher and Weeder
- Portable



Current Stage of Innovation

- Already in business



Innovations should serve farmers and society, being practical & beneficial for widespread utility and impact.





ASHOK GORRE

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 Innovator

The Story

Ashok had been a curious child and was moved with the health issues being faced by his mother because of her day to day agricultural labor. This made him understand the problems being faced by farmers across the nation and innovated multipurpose affordable tools that make the lives of farmers easy leading to high productivity & yield in the farm. Recognising his innovations Telangana Innovation ecosystem has helped him across his journey which led him receive 1 Lakh T-SIRI grant from TGIC, Rural Innovator Development Fellowship from T-Works, recognised as 25 Under 25 by Student Tribe, bagged 4 Gold medals at Ennovate International innovation competition, Poland, honoured with Young Rural Innovator Award by ICAR was invited to the American Society for Agriculture and Biological Engineers conference in Nebraska State, USA in 2023.



About Innovation

Ashok's innovations are multipurpose agricultural seed sowing tools, Manual weeder (Hand tool), Ploughing tools and sprayers. His innovations reduce the pain points of farmers in their regular chores of farming which are weakening their knees, back and draining their energies. These tools improve productivity by increasing the yield and reducing the labor. His innovations are widely applicable across seasons alongside the multipurpose agriculture locomotives used for spraying of pesticides, fertilisers and also convertible to other utilities in agriculture.



Advantages

- Efficient and Cost-effective
- Hassle-free agricultural practices



Applications

- Agriculture & Irrigation
- Pesticide application



Key Features

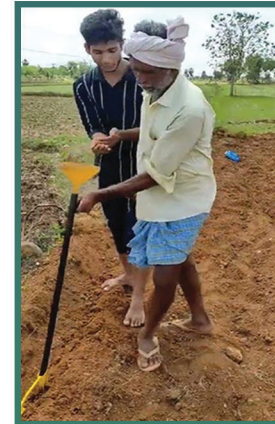
- High Durability and Compatibility
- Versatile and Adaptable to different crops



Current Stage of Innovation

- Market Ready

MULTIPURPOSE AGRICULTURE TOOLS







As an innovator, my journey serves farmers, and my story echoes from the heart of Telangana to global recognition where fields become spaces for growing ideas and cultivate change.





B LINGAM

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-  Assistant Professor

The Story

B. Lingam, an Assistant Professor, was actively involved with farmers in Moinabad Mandal. He identified challenges in the cultivation & storage of vegetables and leafy greens due to their short shelf life. Recognizing the impact on perennial demand, resulting losses and disposal of unsold produce, he was inspired to make a change.



About Innovation

B. Lingam put together an IoT-based cooling chamber, incorporating sensors like DHT11 to revolutionize vegetable and perishable foods' storage. These chambers, with automated temperature control, extend vegetable shelf life by 7-10 days. DHT11 continuously monitors and transmits data to regulate the chamber's settings. Remote accessibility enables real-time monitoring and optimization, while historical analytics aid in proactive maintenance. This innovation significantly improves the quality of the agricultural supply chain, reducing waste and enhancing the quality and longevity of vegetables. His innovative idea resulted in TGIC providing prototype fund of Rs 1 lakh.



Advantages

- Extended shelf life
- Enhancing the supply chain
- Data driven insights



Applications

- Agricultural sector
- Food industry
- Cold Storages



Key Features

- IoT based Sensor technology
- Insulation and sealing
- Remote monitoring and control



Current Stage of Innovation

- Prototype Development

IoT BASED COOLING CHAMBER



When you work for innovative solutions, many will criticize you, take them as a motivation & keep innovating until you prove them wrong.



MULTIPURPOSE SPRAY PUMP



BAIRI VIJAY KUMAR

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 Entrepreneur

The Story

Passionate about finding innovative solutions, Vijay discovered his zeal for creating low-cost and frugal contraptions during engineering which resulted in his innovative solution in Agriculture. Dedicated to making technology accessible, his journey faced many economic and technical challenges. Persistence, with over a hundred trials to make his product more efficient and effective, taught him the vital role of self-confidence in achieving anything in life.



About Innovation

Vijay's innovation, the 'Multi-purpose Spray Pump,' is versatile for agriculture, industrial, and domestic use. With a high pumping pressure of up to 100 bar, it efficiently cleans and sprays. Easy maintenance, portability, and a plug-and-play design make it adaptable. Operating on a domestic 240V electric supply, it boasts a unique Remote Control feature (30m radius). Proudly designed and manufactured in Telangana at a budget-friendly cost.



Advantages

- Versatile mounting
- Portability and maintenance
- Cost effective



Applications

- Agriculture
- Industrial
- Domestic



Key Features

- Remote control operation
- High pressure output under 240V supply
- Multipurpose functionality



Current Stage of Innovation

- Product Development



 Train with TGIC, inspire youth for innovations, boost productivity, create jobs, and foster new industries in Telangana. 



FERTILISER SPREADER SOLAR BASE CYCLE



BANDI LAVANI

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 Student

The Story

Lavani had grown up seeing farmers in her village encounter various challenges spreading urea in fields, a labour intensive task that demands significant physical effort. Motivated by a desire to alleviate their hardships, she set out on a quest to innovate solutions, aiming to ease the burden on farmers and enhance the efficiency of this vital agricultural process by coming about with a fertiliser spreading tool.



About Innovation

Bandi Lavani's Fertilizer Spreader Solar Base Cycle provides a cost-effective solution for urea spreading, minimising labour and costs. It efficiently disperses urea, reducing physical strain and enhancing utilisation. The solar-powered system is eco-friendly and budget-friendly. With an iron stand and motor fan attached to a cycle, it ensures efficient spreading in fields. This user-friendly tool suits all farmers, even those with physical limitations.



Advantages

- Labour efficiency
- Inclusive accessibility



Applications

- Crop farming
- Smallholder agriculture
- Eco-friendly farming



Key Features

- Solar-powered operation
- Cost effective



Current Stage of Innovation

- Product Development



Pedalling hope, empowering farmers with a solar-powered cycle, cultivating efficiency and growth.





BANOTHU SIPAYE NAYAK

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 Student

The Story

Sipayee Naik observed a dangerous trend where farmers, especially during monsoons, faced the risk of electric shocks while switching on motors, leading to tragic accidents. Recognizing the severity of the issue, he devised a safety device to prevent such incidents. This innovation aims to safeguard farmers from electrocution by addressing the unique challenges posed by three-phase current, offering a crucial solution for safer agricultural practices.



About Innovation

The Current Shock Technology is a life-saving innovation designed to prevent electric shock incidents. In case of a shock, the device swiftly disconnects the main power within three seconds, mitigating the potential harm. Widely applicable in the farming sector and other industries, such as the motor industry, this technology acts as a rapid response to safeguard individuals, showcasing its critical role in enhancing electrical safety across various applications.



Advantages

- Rapid response
- Enhanced safety



Applications

- Agricultural sector
- Industrial settings
- Domestic use



Key Features

- Shock detection technology
- Automatic disconnection



Current Stage of Innovation

- Prototype Development

CURRENT SHOCK TECHNOLOGY



Failure is simply a delay
in success, not a defeat. Never
stop trying.



FARM WEEDING TOOL



BOSETTI BHAGATH PRASHANTH

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 Contract worker

The Story

Prashanth highlights the challenges faced by individuals tasked with removing grass and weeds in various areas, especially affecting municipal grass-cutting personnel and also agriculture workers. The repetitive physical strain they endure has become a significant concern, impacting their well-being. Addressing these difficulties, he came up with an innovative tool that enhances both the efficiency & comfort of those engaged in these tasks.



About Innovation

The Weed Farming Tool prioritises workers' well-being with a sponge-equipped kneeling pad to reduce knee strain during weeding. Crafted from two sponges and a sturdy four-foot circle pipe, the Weed Farming Tool ensures comfort during prolonged use with its strategically placed seat. He envisions developing more farmer-centric devices for enhanced efficiency, consistently placing the well-being of farmers at the forefront of agricultural innovation.



Advantages

- Increased efficiency
- Worker well being
- Enhanced comfort



Applications

- Agricultural farming
- Landscaping and Gardening
- Municipal Maintenance



Key Features

- Ergonomic design
- Durable construction
- Multi- functional utility



Current Stage of Innovation

- Market Ready



Solutions to local problems are often very simple, provided the mind is innovative & there is support to materialise the idea into a product.



SEED SOWING SHOE FOR FARMER



Innovate to improve lives, one solution at a time, & create a positive impact in communities.



CH PALLAVI & P BHAVANI

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 Students

The Story

Pallavi and Bhavani witnessed their grandmothers toiling in the fields during holidays. Observing the hardships faced by female labourers in their rural community, who sowed seeds for cotton crops, inspired them to seek a solution. Despite old age, their grandmothers persisted in this challenging task. Determined, they embarked on a purpose to innovate and alleviate the burden on women in farming.



About Innovation

In India, where over 50% depend on agriculture, the tedious task of seeding hampers farming efficiency. Facing financial constraints, they resort to labour-intensive practices or hiring costly machinery. To revolutionise this, Pallavi and Bhavani conceived a seed sowing shoe which has a compartment & a lever mechanism to sow seeds. This innovative footwear simplifies the seeding process, offering a cost-effective solution for small farmers, reducing labour, and enhancing efficiency in crop cultivation.



Advantages

- Improved work efficiency
- Precise seeding
- Health-Friendly Innovation



Applications

- All Season Seeding Solution
- Small Farm Aid
- Agricultural Accessibility



Key Features

- Foot-Operated Seeding
- Efficient Soil Piercing
- Seed Delivery System



Current Stage of Innovation

- Product Development



CHILAKABHATHINI DIVYA SRI

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 Agriculture

The Story

During the 2020 Telangana Innovation Yatra, Divyasri identified various societal challenges that needed to be addressed. Driven by a commitment to support farmers, she developed an innovative solution to alleviate their specific needs. This reflects her dedication to societal improvement and a proactive approach to solving challenges faced by the agricultural community, emphasizing the crucial importance of empowering farmers for sustainable and resilient agricultural practices.



About Innovation

The Solar Controlled Integrated Pest Management System is a solar-based, automated light trap designed to selectively target harmful pests during dusk. Utilizing a specific light frequency, it protects crops, especially during the vulnerable flowering stage, reducing pesticide reliance. Developed with a farmer-friendly cost and a custom circuit, it aims to enhance crop yield sustainably. Her innovation secured a T-SIRI grant, propelling her vision to empower farmers.



Advantages

- Eco friendly farming
- Reduced pesticide dependency
- Cost-effective and user friendly



Applications

- Agriculture
- Insect / pest control



Key Features

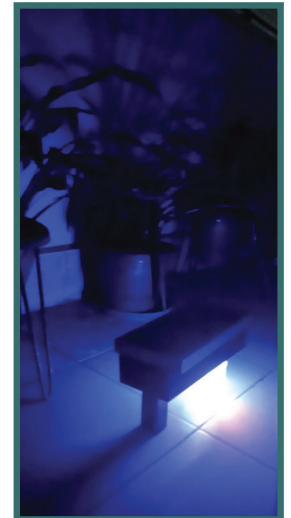
- Automated pest control
- Selective targeting of pests



Current Stage of Innovation

- Market Ready

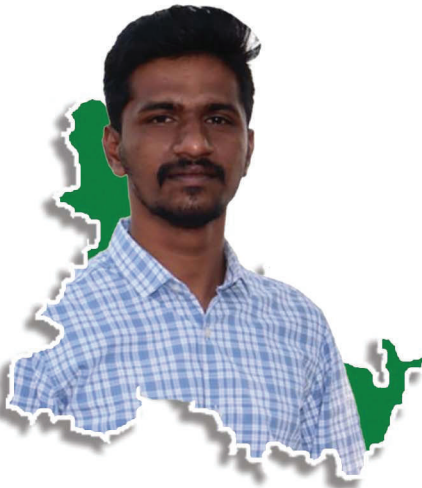
SOLAR CONTROLLED INTEGRATED PEST MANAGEMENT SYSTEM(SCIPMS)



TGIC believes in the immense value of every innovation, urging innovators, whether big or small, to shape ideas that shape the future.



MULTIPURPOSE HARVESTER



DEEPAK REDDY KONGARI

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 Entrepreneur

The Story

Coming from an agricultural background, Deepak faced challenges with unusable land due to debris. Motivated by this, he developed machinery to make farming more accessible and cost-effective, aligning with his mission to replace labour-intensive tasks with innovative solutions for the benefit of the farming community. With his startup Bhaumya Innovation Private Limited, aims to reform agricultural practices by offering affordable mechanised solutions to farmers.



About Innovation

The Stone Picker efficiently clears stones from fields to boost soil profile and health. Using conveyor belts or screens, it systematically collects stones, preventing damage to equipment, reducing soil compaction, and improving aeration. This enhances water retention and nutrient absorption, leading to increased crop yields. With adjustable features, it suits various soil types and cultivation methods, streamlining the farming process.



Advantages

- Improved soil health
- Enhanced crop yields
- Prevents soil erosion



Applications

- Agriculture
- Landscaping and construction
- Waste management and recycling



Key Features

- Adjustable picking depth
- Adaptable design to various crops
- Durable construction



Current Stage of Innovation

- Already in business



Agriculture is the most healthful, most useful and most noble employment of man.





DURGA PRASAD VOODI

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👤 Students

👤 The Story

Durga Prasad & his team, dedicated participants in hackathons and ideathons, redirected their focus when confronted with escalating vegetable prices. Hailing from a farming background, they perceived it as a societal issue and aimed to empower farmers. Their innovative project seeks to boost yields without compromising existing percentages, fostering agricultural sustainability and contributing to stable food prices for the benefit of both farmers and consumers.



About Innovation

The Rover Bot for polyhouse agriculture is a comprehensive solution, collecting parameters within the polyhouse. Providing feedback and yield forecasts based on crop type and parameters, it empowers farmers to enhance crop quality. The bot's scanning feature detects and alerts farmers to defected plants, preventing the spread of infections. User-friendly and versatile, it combines automation with manual control for ease of use in optimising agricultural practices.



Advantages

- Increased percentage of yield
- Day to day forecasting
- Yield optimisation



Applications

- Smart farming
- Crop monitoring
- Precision agriculture



Key Features

- Polyhouse monitoring mechanism
- Infection alert system
- Cost-effective



Current Stage of Innovation

- Prototype Development



It's never too late;
there's still time to rescue our
environment and preserve the
beauty of nature.



INSTANT PADDY DRYER

(MULTI PURPOSE GRAIN DRYER)



Agriculture sustains life, nourishing nations, fostering growth, & weaving the fabric of our interconnected world.



GONE KISHAN KUMAR

 Jagtial

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 Agriculture

The Story

Growing up in a farming family, Kishan witnessed the challenges his father faced during rice harvesting. Labor-intensive grain drying processes demanded a lot of time and resources. Motivated to ease the burden, Kishan conceptualised an innovative grain-drying system. This labour-saving solution not only minimises post-harvest effort but also safeguards the crop. Inspired by his family's struggles, Kishan aimed to transform agricultural practices for a more efficient and prosperous future.



About Innovation

In reforming post-harvest practices, Multi purpose grain dryer swiftly dries & delivers the farmer's wetted grain, reducing moisture content by 15% on harvest day. This eliminates the need for labour-intensive drying processes, providing farmers a labour-free period of 10 to 15 days. The system ensures the safe protection of grain from rain and cold, saving the farmer valuable time & money, with potential savings ranging from 1500 to 3000 rupees per acre.



Advantages

- Labour Efficient
- Crop protection



Applications

- Rice- farming
- Crop storage
- Post- harvest operations



Key Features

- Time and Cost- efficient
- Rapid drying mechanism



Current Stage of Innovation

- Product Development



ITHARAJU NAVEEN, JAYANTI SAI KIRAN

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 Student

The Story

Naveen and Sai Kiran, committed enthusiasts in agriculture and students of BV Raju Institute of Tech, recognized the challenges dairy farmers faced as their farms grew. Manual labour for cleaning cowsheds and managing manure became increasingly burdensome. Existing mechanised solutions didn't fully address this issue. With dedication, they embarked on a transformative journey to innovate and enhance agriculture, seeking comprehensive solutions for farmers.



About Innovation

The Automated Manure treating Solution revolutionises dairy farming with advanced technology, including sensors, lasers, and data systems that automate manure management and cleaning across the farm. This innovative solution addresses challenges of manual labour, water consumption & farm hygiene, promoting efficiency and sustainability in the agricultural sector.



Advantages

- Automated manure management
- Water conservation



Applications

- Agriculture usage
- Sustainable initiatives



Key Features

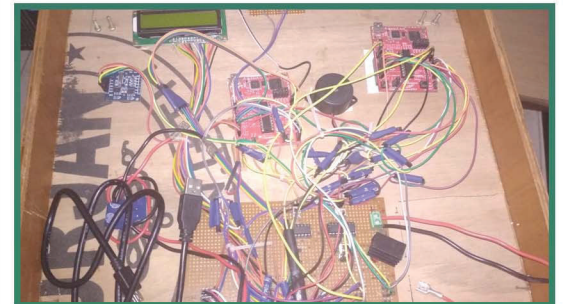
- Sensor-based technology
- A mobile robot for navigation/ collection



Current Stage of Innovation

- Market Ready

DUNG CLEANING ROBOT



It's not just technology- it's the pursuit of ensuring a future where innovation & agriculture harmonise seamlessly.





SONIC AIRTEK- PNEUMATIC GRAIN CONVEYOR



K UDAY BHASKAR

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👤 Entrepreneur

👤 The Story

Facing challenges in traditional grain transfer methods, Uday encountered issues with slow, labour-intensive processes, seed breakage, and hygiene concerns. Motivated by these problems, he came up with an innovative solution to address these inefficiencies, providing a faster, cleaner, and more efficient solution for bulk grain and husk transfer. Driven by this passion to resolve this issue, he embarked on a journey to empower farmers.



About Innovation

The Sonic Airtek Pneumatic Conveyor is a revolutionary solution for bulk grain and husk transfer that efficiently transfers up to 5 tonnes of grains or 2 tonnes of husk per hour, covering 100 feet with minimal seed breakage. Designed for hygiene and efficiency, it operates without human intervention, offering a cost-effective, low-maintenance solution for grain transfer-enhancing and improving the agriculture processes.



Advantages

- Efficient Bulk Transfer
- Reduced Labor and Maintenance
- Resource efficiency



Applications

- Agriculture sector
- Large-scale food processing units and storage facilities.



Key Features

- High Capacity for large grain and husk quantities
- Minimal seed breakage design



Current Stage of Innovation

- Market Ready



Small changes today
for a sustainable tomorrow,
where every action echoes in
a greener future.



VIPER



K SHIVA

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 Entrepreneur

The Story

Focusing on the challenges faced by vegetable and flower farmers without specialised cultivation tools, Shiva envisioned a solution. Recognizing the untapped potential of educated individuals, he founded Bluewings Innovation. His goal is to provide employment opportunities and contribute to societal well-being. Guided and supported by his mother, this startup reflects his commitment to addressing agricultural challenges and fostering innovation for the benefit of both farmers & job seekers.



About Innovation

Viper, an electric agricultural vehicle crafted for efficiency. Compact with dimensions of 3x7 feet, it navigates orchards seamlessly, respecting tree integrity. Driven by a 48V, 1200W BLDC motor and a 68Ah battery, it covers a 60 km range after a 4-hour charge. This innovation addresses farmers' needs, providing cost-effective, pollution-free solutions for transporting kapu and facilitating hassle-free cultivation in flower, fruit, and vegetable farms.



Advantages

- Eco- friendly
- Cost- effective
- Orchard- friendly



Applications

- Agriculture
- Vegetable supply
- Parks



Key Features

- Compact design
- Electric power



Current Stage of Innovation

- Already in Business



Innovation can transform a crisis into an opportunity.



MECHANICAL TURN ON/OFF - VALVE SYSTEM



M GOPAL SINGH

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 Agriculturist

The Story

Gopal observed a growing global water crisis affecting farmers, particularly in India. The struggle intensifies for those with limited awareness and financial resources, facing difficulties in water and power management in agriculture. Daily challenges arise in synchronising irrigation with power availability, causing uneven water distribution—either excessive or insufficient. This struggle significantly impacts crop yields, highlighting the urgent need for sustainable solutions in farming practices.

About Innovation

The Mechanical Control Turn On/Off Valve System, an add-on to existing valves, offers an effective solution for timely water distribution in farmlands. By enhancing electricity and water utilisation efficiency, it ensures improved crop yields. The system's efficient water management optimises power supply for pumping. Planned irrigation scheduling minimises water use, saving time for farmers & creating employment opportunities through installation and ancillary production works & its maintenance.

Advantages

- Improved crop yields
- Resource savings
- Increased employment

Applications

- Agriculture
- Pipe and Flow control systems

Key Features

- Efficient water management
- Irrigation scheduling

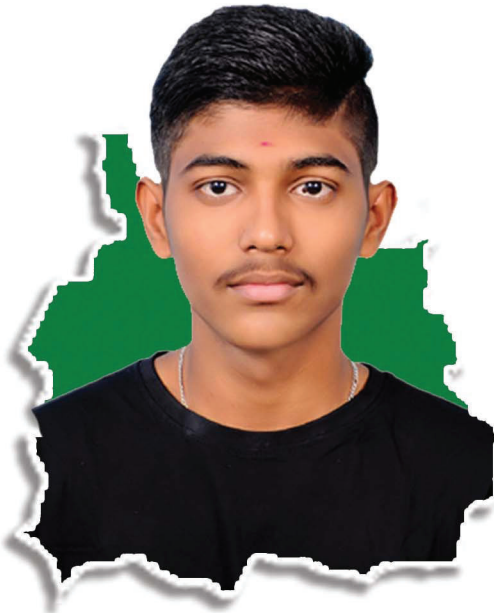
Current Stage of Innovation

- Product Development







Farmer's Progress,
Country's Progress
Kisaan ki
Unnati, Desh ki Pragathi.





MARRIPALLY ABHISHEK

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-  Student

The Story

In the 8th grade at ZPHS Hanmajipet, Abhishek devised an innovative solution inspired by his father's workplace. Observing the challenges workers faced while filling paddy bags, he felt compelled to find a simpler approach. Seeking guidance from his physics teacher, Abhishek successfully invented a paddy filling machine to streamline the process, showcasing that anyone can become an innovator at any age.



About Innovation

The paddy filling machine streamlines the process, enabling efficient filling of paddy into bags while simultaneously checking the weight. Once filled, the machine detaches, and a single person can load the bag onto the vehicle, reducing the labor requirement from four individuals. This innovative solution drastically cuts the time needed, completing the entire procedure to just 5 minutes compared to the usual minimum of 20 minutes for filling, weighing, & loading the bag onto the vehicle.



Advantages

- Labour efficiency
- Improved yield management
- Time efficient



Applications

- Agricultural operations
- Rice mills
- Grain storage facilities



Key Features

- Single person operation
- Integrated weighing
- Quick detachability



Current Stage of Innovation

- Product Development

PADDY FILLING MACHINE



Observing life's problems sparks the quest for solutions, making tasks easier through innovative problem-solving.





MOHAMMED KHAJA MOINUDDIN

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 Mechanic

The Story

Hailing from Chinna Chintakunta, Mohammed Khaja's passion for machinery led him to learn from family and local mechanics. Overcoming challenges in establishing a tractor repair shop, he diversified into autos. Driven by a desire to alleviate farmers' struggles, he developed an affordable grain thresher. With unwavering support from his wife Nasreen, they successfully created a machine, demonstrating resilience & innovation in addressing agricultural challenges.



About Innovation

The Multi-Crop Threshing Machine, mounted on an auto chassis, separates seeds from husks efficiently. It's small, cost-effective, and uses a modified diesel engine for better power. The automatic adjustment system saves fuel. With an input chamber, blowers, and grids, it's safe, reduces labour, and works well for various crops. Simple, economical, and easy to transport, it's a farmer-friendly innovation, making threshing hassle-free & cost-effective.



Advantages

- Ease of transportation
- Labour reduction
- High output efficiency



Applications

- Small-scale farming
- Remote farming locations
- Multi-crop usage



Key Features

- Low- cost maintenance
- Low fuel consumption



Current Stage of Innovation

- Market Ready

THREE WHEELER MOBILE MULTI CROP THRESHER MACHINE



Solving farm challenges not only nurtures agriculture but also the society.



MINI LOADER -2020



NAVEEN KUMAR SRI RAMULA

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-  Engineering work

The Story

Naveen, facing the challenges of manual labour on his farm, sought a solution to ease tasks like soil movement and heavy item transport in confined spaces. Motivated by the persistent labour shortages, he envisioned an innovative solution to enhance efficiency. Naveen's drive for productivity and problem-solving led to the ingenious creation of his innovation, The Mini Loader.

About Innovation

The Mini Loader, intricately crafted for a narrow one-metre-wide tractor, features a front loader with a capacity of 170 to 200 kg. This innovation streamlines material movement, particularly in confined spaces, offering seamless operation. Its strategic design empowers farmers with a versatile tool to address the tasks on the farm, enhancing efficiency and productivity in the agricultural sector.

Advantages

- Efficient load Transport
- Maneuverable Terrain Access
- Versatile Material Handling

Applications

- Efficient Load handling
- Enhanced Manoeuvrability

Key Features

- Space-Efficient Loading
- Diverse material Handling

Current Stage of Innovation

- Already in Business



Turning ideas into market-ready solutions need making impactful innovations accessible and recognised.

MULTIPURPOSE UMBRELLA FOR FARMERS



Innovation in farming to empower the hands that feed the world, is the heartbeat of progress.



POTHURI RAVINDER

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-  Entrepreneur

The Story

Ravinder wanted to address the physical hardships and labor in agriculture in his own humble way. Recognizing the labour-intensive conditions farmers endure, working long hours under the blazing sun, Ravinder actively spotlights this issue. He dedicatedly toiled to explore innovative solutions, aiming to ease physical strain and elevate the agricultural landscape for the hardworking farmers of the region.

About Innovation

The Multi-purpose Umbrella for Farmers aims to make working conditions better in farming with hands-free convenience. Worn around the waist, it frees farmers from holding it, ensuring unrestricted movement. Offering protection from harsh sunlight and extreme weather, it adapts to all seasons. The integrated electric bulb aids early morning work, and its high flexibility allows customization. This cost-effective, versatile innovation extends benefits beyond farmers, catering to various outdoor professionals with its intelligent and innovative design.

Advantages

- Enhanced Productivity
- Improved Health and Safety
- Reduces stress

Applications

- Agricultural work
- Multi user friendly for outdoor work

Key Features

- Hands-free design
- Integrated electric bulb
- Weather protection

Current Stage of Innovation

- Market Ready

KARSHAKA MITHRA



RACHANA, PRAGATHI, RAMYA, SHIRISHA

 Warangal

 Rachananagaiah@gmail.com

 Students

The Story

In Warangal, farmers extensively encountered a hurdle: lacking a machine for cutting paddy, they resorted to manual labour. Rachana, Pragathi, Shirisha, and Ramya wanted to work a solution to ease this struggle, noting the precision required during the kharif season when cultivating hybrid paddy with distinct male and female rows. Recognizing the need for technological solutions, these innovators aimed to enhance efficiency in this specific agricultural practice.

About Innovation

Karshaka Mithra simplifies male paddy cutting with a feeder and escalator, efficiently harvesting 2 rows. Threshing and separating occur in distinct drums, aided by a blower for winnowing. A clever grain system prevents disruption to female paddy. Powered by a 10hp hybrid engine and equipped with a chevron belt, it navigates wetlands effortlessly, offering farmers an easy, efficient solution for their harvest needs.

Advantages

- Cost Savings
- Time Efficient

Applications

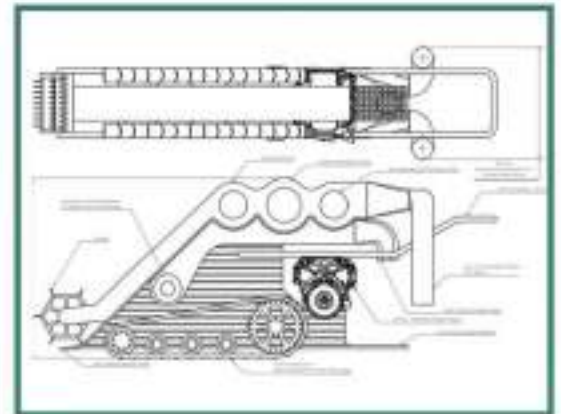
- Segregated harvesting
- Sustainable Farming


Key Features

- Grain Contamination Prevention
- 10hp Hybrid Engine
- Multi-Processing Capability

Current Stage of Innovation

- Prototype development



 Observing life's problems sparks the quest for solutions, making tasks easier through innovative problem-solving.



RAKESH REDDY BOKURI

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 Student

The Story

Growing up as a farmer's son, Rakesh actively participated in agriculture during school breaks. In their village, paddy cultivation was predominant, but post-harvest, traditional drying methods posed challenges and losses. Worried about potential crop damage and dust-related issues, he conceived a solution – a grain dryer. Recognizing the pivotal role of farmers, his innovation aimed to address crucial challenges in the agricultural process of harvesting and sale of grain.



About Innovation

The Electronic Grain Dryer transforms agricultural grain drying with artificial heat powered by electricity, eliminating sunlight dependence. With a thermostat for temperature regulation, it evenly spreads heat, efficiently removing moisture. Versatile in operation, it can use solar energy, tractor PTO, or AC power making the product diverse in spaces for application. Recognized in the Startup Telangana Yatra, it earned significant acclaim and a cash prize.



Advantages

- Year round use
- Increased grain quality
- Reduced losses



Applications

- Agriculture
- Food processing industry
- Agribusinesses



Key Features

- Artificial heat distribution
- Thermostat regulation
- Versatile power sources



Current Stage of Innovation

- Prototype Development

ELECTRONIC GRAIN DRYER



Innovators can excel in making their solutions workable and marketable provided their passion and ideas are fused with the right partners and ecosystem for a greater good of the society.





SEELAM SATYANARAYANA REDDY

 Khammam

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 Sub Station Operator
Electrical Operator

The Story

Coming from a small rural area, Satyanarayana, born into an agriculture based- middle class family, discovered the need for efficiency in fertilisation processes during his 10th standard. Accompanying his father to agricultural work, he identified a gap in the application of chemical fertilisers. Though it took time, his determination led to the inception of a solution to enhance agricultural practices in spraying fertilisers.



About Innovation

Satyanarayana wanted to tackle the inefficiency challenges in chemical fertiliser application, particularly the common practice of applying 30 grams at 30 days, 60 grams at 60 days, and 90 grams at 90 days, especially in crops like cotton and vegetables. His Fertiliser Laying Machine was innovated for precise and easy application. Farmer-centric, it curbs back pain, promotes ease, and allows breaks. Its system minimises wastage, delivering precise amounts based on plant age.



Advantages

- Precision application
- Farmer well-being
- Efficient resource use



Applications

- Crop farming
- Horticulture



Key Features

- Plant- age specific application
- Back pain prevention
- Wastage reduction



Current Stage of Innovation

- Already in business

FERTILISER LAYING MACHINE



Innovating for the fields,
planting the seeds of change,
harvesting a future ripe with
possibilities.



SHAMANTHULA ANIL KUMAR

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 Farmer (Ex-serviceman)

The Story

Anilkumar's attention to the alarming state of food quality with emphasis on its poisoning due to the severe use of stray chemicals in herbicides and insecticides was disheartening. He underscores the widespread impact of diseases like cancer caused by these chemicals, affecting the lives of many Indians. Drawing from personal military experiences, he advocates for natural agriculture to build a healthier nation and prevent the on-slaught of diseases.

About Innovation

The "Paddy Springs Weeder," addresses the challenges faced by farmers in manually applying chemicals to control weeds and pests. This device ensures efficient & controlled chemical distribution, reducing the burden on farmers and minimising environmental impact. With increased pilak percentage and improved yield, the innovation promotes eco-friendly practices, making it a valuable addition to sustainable agriculture. Anilkumar continues to be committed to making the tool accessible to all.

Advantages

- Eco- friendly
- Labour and time savings
- Increased crop yield

Applications

- Weed control in paddy fields
- Sustainable agriculture initiatives

Key Features

- Precise spraying mechanism
- Ease of use
- Versatility

Current Stage of Innovation

- Market Ready

PADDY SPRING WEEDER



Every innovation should be designed to benefit nature, prioritising its well-being and avoiding any harm only makes our lives more wholesome.





SHANMUKHA RAO REPALLE

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-  Mechanic

The Story

With 25 years of expertise, Shanmukha Rao, a skilled mechanic in agricultural machinery, empathised with farmers facing labour shortages in paddy planting, incurring costs of 1000 to 7000 rupees per acre. Recognizing issues like unaffordable machines and a lack of technicians, Rao committed a year to overcoming financial and technical challenges, ultimately producing a groundbreaking planting machine to address critical agricultural hurdles.

About Innovation

Shanmukha Rao has established pivotal benchmarks for his Six Row Rice Transplanter. Emphasising on affordability and a lightweight design to mitigate mud-related challenges, the innovation operates fuel-free with a battery, ensures cost-effective & widely available spare parts, and boasts a user-friendly design accessible even to rural mechanics. This transformative solution embodies Rao's commitment to providing farmers with an efficient and

Advantages

- Labor-Free
- Income enhancement
- Eco-friendly

Applications

- Seasonal Crops
- Off-Grid Planting
- Solar flexibility

Key Features

- Cost-Efficient
- Affordable
- User-friendly

Current Stage of Innovation

- Market Ready

SIX ROWS RICE TRANSPLANTER (BATTERY OPERATED)



 Innovators must explore agriculture's endless possibilities to enrich & make better the fruits of the sector. 



SHASHIRATH REDDY MULA

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 Graduate

The Story

Agriculture is still India's prime occupation, supporting over 50% population. Yet suboptimal practices hinder farmers' income and yield. Farmers spend around 10,000 Rupees per acre on tractors, and on average, a tractor owner uses 3000 liters of fuel every year, which is a substantial expense. Aiming to address this, Shashirath, with a background in agriculture and a Mechanical Engineering degree, pursued a Master's in Electric Vehicles from England. On returning to India, he took up the challenge of creating an electric tractor, completing it in May 2023. Preliminary testing showed that it outperformed diesel tractors



About Innovation

The Electric Tractor he developed ingeniously utilizes an existing tractor gearbox, while the custom powertrain & battery system ensure tailored efficiency. Unlike traditional models, this design eliminates the need for a clutch, easing the use of the machine. With a charging time of under two hours from 0-100%, it provides a four-hour runtime, & its fully electric powertrain eliminates routine maintenance like oil changes. Performance-wise, it outperforms conventional tractors, reaching 40 km/h compared to the typical 35 km/h, as proven in tests with various



Advantages

- Eco-Friendly
- Efficient and Cost-effective
- Smart connectivity



Applications

- Farms / Poly Houses
- Industrial use
- Mining and construction sector



Key Features

- GPS guided precision farming
- Bluetooth for remote control and machine metrics
- Reduced noise of tractor



Current Stage of Innovation

- Prototype development

ELECTRIC TRACTOR



 TGIC shines a spotlight on Telangana's innovations, offering rural youth a platform to showcase unique solutions often overlooked by larger companies & inculcate a culture of innovation to solve problems. 



TECHREDI



TEJASWI VELUGAPALLY, K PRAGNYA SREE G SUNIDHI, AND B SAI MRUDULA,

Hyderabad

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Students

The Story

Upon her mother's discontent with vegetable quality and unyielding prices from a local vendor, Tejaswi and her friend initiated a problem statement survey to grasp the challenges faced by street vendors. They delved into the vendors' daily struggles, learning about the issues from sourcing quality produce to pricing strategies. Armed with insights, they embarked on developing a comprehensive solution for street vendors.



About Innovation

TechRedi, designed for street vendors, minimizes business losses by providing a closed environment for vegetables & fruits, enhancing their shelf life. Aligned with SDG 12.3, it aims to reduce food waste considerably. Identified through in-person surveys, it addresses issues like overloading, health concerns, spillage, mobility and environmental exposure. Competitive analysis revealed existing carts are expensive, lack features, and predominantly rely on electric charging instead of solar power.



Advantages

- Improved quality and shelf life
- Environmental sustainability
- Economic empowerment



Applications

- Street vendors
- Outdoor markets
- Mobile food carts



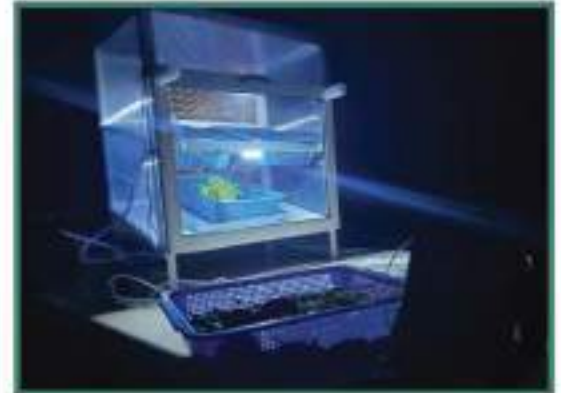
Key Features

- Enclosed Cabin for Freshness Maintenance
- Solar dryer and compost facility
- DC Motor-Powered Vehicle



Current Stage of Innovation

- Product Development



If you never face challenges, you'll never experience growth.



GRIM REAPER BINDER




“Agriculture roots communities, feeding the essence of life and flourishing societies with abundance and nourishment.”



K THANGAMANI

 Bhadradri Kothagudem

 +91 97039 94857

 Working Professional

The Story

Thangamani with a passion for aiding the agriculture sector, recognized a significant challenge faced by farm labourers. Traditional methods of cutting and binding leafy vegetables often required labourers to bend their backs or knees, leading to health issues. To address this problem, Thangamani embarked on a mission to develop an ergonomic solution that would enable farm labourers to harvest vegetables without compromising their health.



About Innovation

The Grim Reaper Binder is an innovative agricultural tool designed to transform the way leafy vegetables are harvested. It provides an ergonomic solution that allows farm labourers to cut and bind vegetables without the need to bend their backs or knees. This revolutionary tool not only improves the working conditions of farm labourers but also enhances the efficiency of vegetable harvests.



Advantages

- Reduced physical strain
- Enhanced efficiency
- Time saving



Applications

- Agriculture



Key Features

- Dual functionality
- Ergonomic design



Current Stage of Innovation

- Market Ready



V SREEJA

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-  Student

The Story

Sreeja, understanding the challenges of agriculture, particularly in the demanding fertilisation process, envisioned a solution. Determined to alleviate the physical strain on farmers and streamline the entire procedure, she embarked on creating a device. Recognizing the paramount importance of efficiency and farmers' well-being, Sreeja sought to innovate and bring relief to those labouring in the fields.

About Innovation

The Easy Fertiliser Dispenser is a user-friendly and cost-effective agricultural tool designed to simplify the fertilisation process. It eliminates physical strain and provides precise fertiliser application, all while being accessible and affordable to farmers. This innovation is a testament to the commitment to improving farming practices and promoting the well-being of those who work the land.

Advantages

- Improved physical efficiency
- Enhanced efficiency
- Cost-effective

Applications

- Agriculture fields
- Horticultural settings
- Greenhouses

Key Features

- Ergonomic design
- User-friendly operation

Current Stage of Innovation

- Market Ready

EASY FERTILISER DISPENSER



Inventing new things helps us do better & makes our future look good & happy.



KISAN REMOTE



“TGIC’s unwavering support, including boot camps, exhibitions, and awards, fueled our innovation journey and product development.”



VELLE SRINIVAS

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-  Cable tv mechanic

The Story

While repairing TVs in nearby villages, Srinivas witnessed farmers facing life-threatening challenges like electric shocks & overwork. Disturbed by their plight, he empathetically inquired about their issues and felt compelled to find a solution. Leveraging his knowledge in electronics, he conceived an idea to mitigate the dangers faced by farmers, aspiring to bring about positive change & enhance their safety in daily activities.

About Innovation

The Kisan Remote is a cost-effective solution to irrigation management in agriculture. By attaching the receiver box and a remote control to the manual starter, farmers can remotely turn the motor on and off, reducing the risk of electrical hazards and improving energy management. This innovation not only prevents electrical accidents but also reduces labour and aids in better energy management, providing an affordable and accessible solution.

Advantages

- Safety Enhancement
- Improved efficiency
- Improved livelihood

Applications

- Villages and rural areas
- Livestock farms

Key Features

- Voltage control system
- Automated motor control
- Safety sensors

Current Stage of Innovation

- Market Ready

KALUPU YANTRAM



VENKATAIAH KOIL CHINNADARPALLY

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 Welder

The Story

In Venkataiah's one-acre sorghum field, the rainy season exacerbated weed growth, presenting a formidable challenge. The absence of tractors further intensified his struggles, limiting effective weed control measures. Faced with this predicament, he sought an innovative solution to address the rampant weed growth, enhance cultivation efficiency, & overcome the constraints imposed by the unavailability of tractors during the crucial rainy season.



About Innovation

Confronting challenges, Venkataiah ingeniously transformed an old TVS XL engine into a four-foot-long Kalupu Yantram, incorporating a 10-inch wedge. This improvised weeding machine revolutionised sorghum cultivation by efficiently addressing weed growth. Inspired by the discontinued Yatra model, the Kalupu Yantram exemplifies resourceful innovation, showcasing how creative repurposing can streamline agricultural practices and overcome challenges in the face of limited resources.



Advantages

- Increased Efficiency
- Labuor optimization
- Efficient Weeding



Applications

- Versatile Crop Compatibility
- Universal Seasonal Use
- Wide Crop Applicability



Key Features

- Efficient repurposed engine
- Compact design
- Cost- effective



Current Stage of Innovation

- Product Development



Innovating to aid farmers in agriculture demands fostering a meaningful connection with a shared mission of pro-blem solving and support.



MULTIPURPOSE BAG FOR AGRICULTURAL USE



venu, rajesh & abhishek

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 Students

The Story

As sons of farmers, Venu, Rajesh and Abhishek empathised with the challenges faced by agricultural labourers, proudly known as the "Sons of Soil." Growing up amidst the toil, they observed their struggles in fields, especially in collecting vegetables, fruits, & cotton. Noticing difficulties in handling agricultural products and the makeshift use of sarees for collection, they aim to innovate solutions for efficient and ergonomic farming practices addressing the challenges faced by the community.



About Innovation

The "Multi-Purpose Bag," an innovative solution for agricultural tasks. Crafted from recycled fertiliser bags, jute, cotton, or used jeans cloth, it minimises costs and promotes sustainability. This versatile bag streamlines collecting farm products, saving time and reducing the burden for agricultural labourers & farmers. Complemented by a Fertilizer Gun, it facilitates efficient seed sowing & fertiliser application, optimising fieldwork with easy handling & cost-effective plastic pipe construction.



Advantages

- Cost-Effective Sustainability
- Efficient and Time Saving
- Versatility



Applications

- Farm Product Collection
- Seed Sowing
- Fertiliser Application



Key Features

- Material Versatility
- User-Friendly Fertilizer Gun
- Time-Efficient Fieldwork



Current Stage of Innovation

- Product Development



Innovation platforms empower us to shape a better world, one idea at a time, transforming lives.





INCENSE STICKS FROM FLORAL WASTE



VYAPANA SUDHEER

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👤 Farmer

👤 The Story

Upon the inauguration of Yadadri temple, an opportunity arose to repurpose daily replaced adorn flowers and garlands. Convincing temple authorities to provide these, their FPO engaged women farmers in crafting eco-friendly agarbattis using natural materials like cow dung, ghee, sandalwood, and dried adorn flowers. This unique approach enhances the divinity of the flowers and contributes to sustainable pooja product creation for the temple.



About Innovation

The Incense Sticks from Floral Waste process involved collecting flowers daily from the temple, then separating and drying them for agarbatti and dhoop stick making. Women shareholders, engaged in various product manufacturing, participated in the process. However, the daily hustle of collecting and drying flowers on the same day became challenging. We are actively exploring more efficient solutions to streamline this process and enhance our production.



Advantages

- Eco-Friendly
- Empowering Women Farmers
- Cost-effective



Applications

- Incense and Room fresheners
- Homes and praying places



Key Features

- Natural Material Usage
- Community Engagement
- Sustainable Floral Repurposing



Current Stage of Innovation

- Product Development



Opportunities are seized, not given so embrace flexibility and a broad perspective to reach your goals.





KUMMARI SHRAVANI

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 Student

The Story

Shravani had recurrently noticed that farmers face risks like snake bites, animal attacks, electric shocks, and night accidents, leading to tragic outcomes. Additionally, elderly individuals often forget essential medications when going out. Recognizing these challenges, she started her journey to enhance farmer safety and support the elderly population in managing their health, ultimately minimising the risks associated with these common yet serious concerns.



About Innovation

The Guardian Cane modifies the common hand stick to address various challenges faced by farmers and the elderly. It incorporates a vibrator and buzzer to deter animals, and a light for nighttime visibility, preventing accidents. The built-in toolkit aids farmers during fieldwork, reducing electric shock risks. Additionally, a first-aid kit ensures prompt emergency assistance, potentially saving lives when individuals are alone.



Advantages

- Enhanced safety
- Assistive tech



Applications

- Farmer safety
- Elderly Mobility
- Self protection



Key Features

- Vibration and buzzer alert system
- Multi-functional toolkit
- Comprehensive safety components



Current Stage of Innovation

- Prototype Development

THE GUARDIAN CANE



As informed minds,
let's innovate for societal
well-being-to aid and assist
in people's lives



MAGIC SPRAYER



THOTAKURA PRAVEEN YADAV

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-  Farmer

The Story

While engaged in chemical spraying at the chicken farm using a hand pump, Praveen faced multiple skin problems due to chemical exposure. The labourers on the farm encountered similar issues, emphasising the challenges associated with manual spraying in agricultural settings. Highlighting the urgent need for safer and more efficient methods to protect the health and well-being of those involved in such agricultural practices, he created the Magic Sprayer

About Innovation

Praveen developed a remote-controlled Magic Spray pump for improved worker safety. This solar-powered pump, equipped with a battery, responds to a remotely controlled app via mobile. Furthermore, with the integration of a CCTV camera connected to Wi-Fi, it can also be operated remotely. This technology not only prioritises worker safety but also introduces convenience & flexibility to the spray pump system.

Advantages

- Enhanced safety
- Convenience and remote control
- Efficiency and versatility

Applications

- Agricultural spraying
- Surveillance and monitoring

Key Features

- Remote-controlled functionality
- Solar-powered with battery
- Integrated CCTV connectivity

Current Stage of Innovation

- Market Ready

 Empowering agriculture with remote access: where safety meets efficiency, and technology enhances the worker efficiency. 



MACHA RAJITHA

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 Teacher

The Story

Rajitha, in her role as a physical science teacher at JDPHS Boys School, observed the struggles of Satyam, a disabled attendant at the school with limited mobility. Satyam, relying on walking sticks due to a single functioning leg, exemplifies the challenges faced by over 1.6 crore people in the country dealing with locomotor disabilities. This inspired her to come up with an innovative solution for the specially abled.



About Innovation

Rajitha along with her husband, Sudhakar developed the Multi-Purpose Walking Device creating a unique seating aid with three foldable sticks, enabling handicapped individuals like Satyam to comfortably sit & work while moving. This innovative device, achieving a 100% success rate led her to receive the Rural Innovator Award from TGIC and also an award for the Telangana Assistive Technology Exhibition organised by TGIC and T- HUB.



Advantages

- Multifunctional Mobility
- Travel-Friendly
- Lightweight and Cost-Effective



Applications

- Adaptive Seating
- Inclusive Mobility
- Queue Comfort



Key Features

- Unique Design
- Foldable Seating
- Robust Capacity



Current Stage of Innovation

- Market Ready

MULTIPURPOSE WALKING DEVICE FOR DISABLED PEOPLE



Innovation is important for inclusion- breaking barriers and embracing diversity for a brighter, collective future.





POLASA HARI KRISHNA

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 Student

The Story

In his final undergraduate year, Hari Krishna was profoundly moved by the challenges faced by individuals with lower limb disabilities, fostering a deep sense of responsibility and purpose. Witnessing their dependence on others and frustration at limited support, he strives to make a lasting impact. Now pursuing a master's in mechatronics engineering, his goal is to unlock innovative possibilities and drive positive change for those facing similar challenges by creating aids such as his Powered Wheelchair.



About Innovation

His innovation, the Powered Wheelchair without handlebar, features a single-motor design with a differential gear mechanism, eliminating handlebars for cost-effective & efficient operation. Users familiar with past motorcycle riding skills will find a smooth transition, as both utilize throttles for speed control. The innovative design enables turning, mimicking motorcycle functions, while optimizing power consumption and minimizing costs.



Advantages

- Minimise physical stress
- Improved accessibility to spaces
- Portable and affordable



Applications

- Hospitals
- Public infrastructure
- Workplace



Key Features

- Single motor operation
- Differential gear mechanism
- Optimized power consumption



Current Stage of Innovation

- Prototype Development

POWERED WHEELCHAIR WITHOUT HANDLEBAR



 Empowering mobility, designed for life, engineered for freedom. Use your innovation to improve the lives of people and make a real difference. 

A HELMET FOR THE HEARING IMPAIRED



My innovation received strong recognition through the Intinta Innovator Program with valuable support & assistance provided by TGIC.



SK RAJALIPASHA

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-  Teacher

The Story

Rajalipasha witnessed the heartbreaking event in Bhadrachalam where a friend, with hearing loss, succumbed to an accident upon a collision from the rear. In 2018, he personally experienced a collision, resulting in a broken arm. Motivated by these incidents, the idea of creating a riding helmet specifically for the hearing impaired emerged, aiming to make public roads more accessible, safeguard their lives and prevent such tragic accidents.

About Innovation

Designed to enhance the safety of those with hearing loss riding two-wheelers, Rajalipasha's innovative helmet incorporates a front light triggered by the horn of a vehicle approaching from behind. Utilizing sound and radio waves, the system serves as a proactive alert, prompting riders to exercise increased caution. This visual cue encourages users to check side mirrors, ensuring they yield to rear traffic and effectively preventing accidents and also making roads more accessible for those with loss in hearing.

Advantages

- Enhances Road Awareness
- Proactive safety

Applications

- Making roads more accessible
- Reducing road accidents

Key Features

- Horn triggered alert system
- Advanced sensory technology

Current Stage of Innovation

- Market Ready



T MALLIKARJUNUDU

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 Teacher

The Story

Taking care of his sick mom, Mallikarjunudu faced difficulties as he struggled with scheduling medicines and food for her when he was at work. Seeing her struggle and his inability to tend to his mom, led him on a journey driven by passion, aiming to make life easier for those dealing with health issues at home.



About Innovation

Crafted with two ropes and plastic pipes, the Bed Rope Ladder functions as a lifeline for bedridden patients, simplifying self-care during illness. This ingenious yet simple solution facilitates effortless trunk elevation, ensuring individuals can independently access medicine and food. Its affordability and versatility make it an empowering tool, showcasing how innovation can profoundly impact and improve daily life, especially in the healthcare sector.



Advantages

- Self Dependence for Patients
- Societal Well-being
- Attendant-Free Care



Applications

- Health facilities
- Homes
- Old age homes



Key Features

- Simplicity and Versatility
- Trunk Elevation Aid
- Affordable Assistance



Current Stage of Innovation

- Prototype Development

BED ROPE LADDER



Observe, care and innovate: Passion for improving lives leads to solutions in your surroundings.





RAHUL RATHOD

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 Entrepreneur

The Story

The idea originated during his B.Tech days when a class presentation highlighted the struggle with language for many, including his roommate with severe stage fright. Recognizing the widespread issue of English fluency among youngsters due to limited resources, Rahul envisioned a solution. His mission is to empower financially underserved youth by enhancing their English proficiency, bolstering confidence in presentation, interview, and communication skills, addressing a crucial gap in soft skill development.



About Innovation

Interperso, an AI assistant, elevates presentation and interview skills through iterative practice and feedback. Assessing grammar, emotions, confidence, & vocabulary, the app combines language experts with AI to evaluate and refine users' soft skills. A unique feature includes virtual reality interfaces for lifelike scenarios, aiding users in overcoming public speaking fears. Realistic 3D models, sounds, and distractions enhance interaction, contributing to building confidence and focus.



Advantages

- Confidence building
- Tailored learning paths
- Cross cultural communication



Applications

- Individual users
- Corporate training
- Language learning centers
- Educational institutions



Key Features

- Virtual reality interfaces
- AI- powered feedback
- Realistic 3-D models



Current Stage of Innovation

- Market Ready

INTERPERSO




Dream big, embrace imperfections, & let the journey of continuous learning and improvement lead you to success.





RISHITH CHINTALA

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 Student

The Story

Rishith highlights how every student deserves a joyful educational journey, enriched with quality education, facilities, and positive experiences. His vision is to transform schools into safe, happy spaces, fostering problem solvers & volunteers among students. Addressing harassment, mental health, and insecurities, his innovation aims to create a positive, student-centric learning environment. Through this initiative, he aspires to empower students, promoting confidence, positivity, and a supportive community during their formative years

About Innovation

Make a Change, an empowerment initiative, is a Self Assessment Board that fosters positive actions, encouraging self-reflection and recognition. The problem solving box promotes open communication, allowing students to seek help anonymously and inspiring a culture of empathy. Furthermore, the forgive letter concept provides a platform for students to apologise, fostering a safe and supportive environment, ultimately nurturing positive behaviour, resilience, and strong interpersonal connections.

Advantages

- Holistic Development
- Early Intervention for Mental Health
- Confidence Building

Applications

- School-wide Implementation
- Community Outreach Programs
- Integration into Curriculum

Key Features

- Anonymous Support System
- Forgive Letter Concept
- Positive Reinforcement Through Tags

Current Stage of Innovation

- Product Development

MAKE A CHANGE



Empathy and self-confidence must be the foundation of building personalities that are unique and aspirational.

SHE (FOR US)



SANIYA ANJUM

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 Student

The Story

Being in a girls' school, Saniya witnesses daily challenges related to menstrual cycles. Her sister, a gynaecologist, highlighted the importance of discussing menstrual hygiene openly. With help from her teacher and friends, they conceived a platform in schools to raise awareness. Their initiative aims to educate girls on hygiene, discuss menstruation-related problems openly, and orient male family members to support girls, breaking the stigma surrounding menstruation.

About Innovation

SHE (for us) is a revolutionary initiative for girls in schools, aiming to break taboos around menstruation. The project establishes dedicated rooms equipped with hygiene essentials, sanitary napkins, and support from teachers and students. Regular gynaecologist visits and orientation programs contribute to the girls' well-being. The initiative fosters societal change, encourages open dialogue on menstrual health, ensures attendance, and prevents dropouts, making a positive impact on the community.

Advantages

- Promoting menstrual hygiene
- Health and well-being
- Community engagement

Applications

- School implementation
- Community outreach
- Societal change

Key Features

- Dedicated SHE rooms
- Regular Gynaecologist visits
- Access to essentials at all times

Current Stage of Innovation

- Prototype Development



Be the change you want to see; transform yourself to influence and bring positive societal change.





TALARI THRINIDHI

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 Student

The Story

During a visit to KG classes across schools, Trinidhi noticed many children feeling uncomfortable on standardised benches, hindering their ability to engage in daily class activities. These benches, designed without considering the unique needs of young learners, proved impractical for the dynamic nature of their routines. Recognising this discomfort, she created a solution with child-friendly seating solutions that accommodate their age-specific requirements for a more conducive learning environment.



About Innovation

The Smart Desk for pre-primary students, designed as a plaything, enhances comfort and fosters enthusiasm for school. Tailored for 4-6-year-olds, it supports physical growth with adjustable height and angles. Made from renewable wood, it's affordable and easily implemented in all schools. The 360° rotatable seat promotes teacher-child interaction, while features like digital reminders and a water bottle holder enhance functionality, ensuring a child-friendly & engaging learning experience.



Advantages

- Enhanced Comfort & Engagement
- Supports Physical Growth
- Sustainable and Affordable



Applications

- Schools & Educational Institutions
- Home Learning Spaces



Key Features

- Adjustable Height and Angles
- 360° Rotatable Seat



Current Stage of Innovation

- Product Development

SMART DESK FOR PRE-PRIMARY STUDENTS



Make schools fun for children, let's start with their seating & interactions.



KAMMA GEAR FLYWHEEL TECHNOLOGY



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 R & D Professional

The Story

For over 35 years, Dr. Srinivas and his wife have dedicated themselves to crafting a world-class innovation to make the world more sustainable. Their research is committed to humanity's well-being & creating an eco-friendly environment for future generations. Driven by a vision and mission to produce 24x7 pollution-free clean & green energy, they worked to include green hydrogen and green electricity nationwide energy agenda. Their goal is to enhance lives, generate employment, & arrest the damage already done to Mother Earth and Nature.



About Innovation

The Kamma flywheel is a mechanical device that stores energy by spinning. It works like a rechargeable battery for motion. When connected to a system, it helps nullify the losses due to variations in power, acting like a filter. It absorbs and stores energy when there is a power surge and disseminates the same during a power drop, thereby nullifying the effects of unstable power supply. This innovation provides a sustainable solution for the increasing demand for electricity and transportation, considering the challenges of global warming and fossil fuel depletion.



Advantages

- Sustainable energy storage
- Zero- carbon emissions
- Power smoothing for stable and consistent energy



Applications

- Renewable energy integration
- Transportation & Industries
- Emergency power backup



Key Features

- Angular momentum conservation
- Pulse based power storage



Current Stage of Innovation

- Already in business




Clean & Green energy for a sustainable future demands more localised and innovative solutions to aspire for – ONE NATION, ONE TECHNOLOGY, ONE TARIFF, ONE RUPEE PER kWh





EDLAPURAM SHASHIDHAR

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 Entrepreneur

The Story

During the third grade, innovator Shashidhar noticed the constant illumination of street lights in his village, leading to hefty electricity bills for Malli Gram Panchayat. Inspired by his father's expertise as a TV mechanic, Shashidhar envisioned a solution to optimise street light usage and reduce costs. This early observation and practical knowledge set the stage for his innovative idea to propel local energy conservation.



About Innovation

The Automatic on/off street light, equipped with motion and daylight sensors, offers energy efficiency. With wireless connectivity for remote control, these systems adapt illumination in real-time. Part of smart city initiatives, they enhance urban infrastructure, collecting data for informed decisions. The innovation has won national awards and received approval for implementation in the district & Mahamutharam mandal, ensuring long-term benefits of reduced energy expenses and enhanced sustainability.



Advantages

- Urban/rural street lighting
- Smart city infrastructure
- Sustainable development initiatives



Applications

- Urban/ rural street lighting
- Smart city infrastructure
- Sustainable development initiatives



Key Features

- Motion and daylight sensors
- Wireless connectivity
- Integration with smart city systems



Current Stage of Innovation

- Already in Business

AUTOMATIC ON/OFF STREET LIGHT



TGIC's support inspires relentless self-effort. Over- come obstacles, persist from first to last attempt, ask, share, teach.





RAVURI BRAHMANANDA CHARI

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-  Retired

The Story

Intrigued by the concept of solar cooking, Brahma Nanda Chari, employed at BHEL, delved into experimenting with solar energy. Joining the Solar Energy Society of India fueled his passion for innovation. His vision: a solar-powered cooking solution sans sun tracking, offering households a simple, gas cooktop-like experience. Dedicated to advancing solar technology, he aimed to make clean cooking accessible & efficient for everyone.

About Innovation

The solar cooker, a solar-powered apparatus, utilises parabolic troughs and auto sun tracking to generate steam for large-scale cooking and industrial use. Maintaining food heat for 8-9 hours in pressure vessels and 3-4 hours in open vessels, it ensures consistent performance. The innovation even reduces kitchen temp, eliminates toxic fumes, and cuts fuel expenses, fostering a healthier, pollution-free cooking environment.

Advantages

- Eco- friendly
- Healthier kitchen
- Cost- efficient

Applications

- Household use
- Hotels/ Restaurants
- Food processing industries

Key Features



- Solar- powered
- Optimised heat collection
- Extended heat retention mechanism

Current Stage of Innovation

- Market Ready

SOLAR COOKER (SOLAR POWERED APPARATUS)



 Success in invention brings joy, a valuable reward. Money might or might not come through this process but the priority is enjoying the process of implementing ideas. 



ADDULA SAI SIDDARTHA REDDY, VAMSHI, KAVYA, AND PALLAVI

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Students

The Story

Dedicated to reducing human dependence on non-renewable resources & minimising environmental degradation, innovators Siddhartha, Vamshi, Kavya, and Pallavi, guided by their mentor Archana, utilised their engineering skills to create a continuous self-rechargeable bicycle system. By harnessing renewable sources like solar, piezo, and wind, the innovation aims to foster sustainability and provide an eco-friendly solution for green transportation.



About Innovation

The DSP Self Charging Electric Bicycle blends a motor, dynamo, battery, and solar panel for its functioning. Pedalling activates the dynamo, converting wheel rotation into stored energy while the controller manages speed, initiated by a key. Additionally, the GPS, linked to the battery, ensures continuous tracking. This innovation won a top spot in a presentation, earned a patent, and secured the second runner-up position in a 36-hour hackathon.



Advantages

- Green transportation
- Cost effective



Applications

- Eco-friendly mobility
- Cheaper travel system



Key Features

- Dynamic energy sources
- Intelligent controller
- Continuous GPS tracker



Current Stage of Innovation

- Market Ready

DSP SELF CHARGING ELECTRIC BICYCLE



Innovation blooms through collaboration, diverse talents, & unwavering passion & dedication—the driving force that conquers challenges.





GODASU NARSIMHA

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👤 Fisherman

📖 The Story

In Narsimha's village, the invasive horse hoof plant threatened the pond ecosystem, demanding long manual removal each year. Recognizing the toll on both labour and community health, he proposed a mission for a specialised cutting machine. Despite financial constraints, the community rallied, contributing funds for the innovative solution. This initiative seeks to streamline the removal process, promote fish growth, and ensure the well-being of the fishing community, tackling both environmental and livelihood challenges.



About Innovation

Water Hyacinth Remover efficiently extracts floating plant leaves from ponds, rivers, or canals, adapting to various water environments globally. It cuts and disposes of horse hoof leaves, making removal by tractor easy. With an impressive output of 4.5 tons in 7:30 minutes, the innovation minimises labour requirements, enabling four individuals to clean an entire pond. Additionally, the extracted material is transformed into valuable leaf manure.



Advantages

- Labour efficiency
- Improves safety and well-being
- Global applicability



Applications

- Agricultural ponds
- River cleanup
- Canal maintenance



Key Features

- Depth adaptability
- Global compatibility
- Quick and efficient operation



Current Stage of Innovation

- Already in Business

HYACINTH REMOVER



Persist through discouragement; in perseverance lies the key to success, regardless of the obstacles faced.





THE PLASTIC HUB



VINITH REDDY, VIVEK, VIPUL & JEROME

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👤 Students

The Story

Seeing plastic burn near a park and releasing harmful gases, made Vinith want change. He saw environmental damage and health risks, realising the need for better waste management. No organised solution existed, so he created a platform connecting waste pickers and management companies. The problems of unorganised waste disposal & environmental hazards inspired a B2B model, ensuring a systematic approach to waste management for a healthier planet.



About Innovation

Vinith founded Plastic Hub, a B2B platform connecting rag pickers & waste management companies. They integrate technology into waste management, initially focusing on plastic and later expanding to other products. Their platform oversees the end-to-end waste processing, including recycling. They earn commission from waste management companies & pay a nominal sum to our procurement, creating a sustainable model that benefits all involved in waste management.



Advantages

- Pollution control
- Cyclic Economy
- Employment Opportunities



Applications

- Advanced Waste Handling
- Technologies
- Recycling Programs



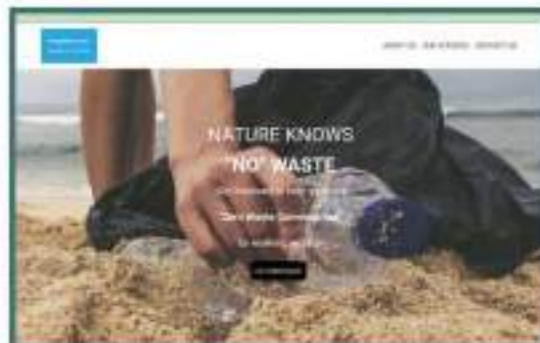
Key Features

- Environmental Impact Monitoring
- Community Engagement
- Waste-to-Energy Solutions



Current Stage of Innovation

- Product Development



Embrace climate control to nurture a sustainable future—our responsibility for a resilient tomorrow and thriving planet.



RAJU MUPPARAPU

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👤 Innovator

👤 The Story

In Raju's village, he noticed the persistent use/mis-use of streetlights during the daytime posed avoidable losses. The unnecessary illumination not only wasted energy but also disrupted the natural environment for birds. Concerned about this inefficiency and environmental impact, Raju sought a solution to regulate streetlight usage, aiming to create a more sustainable and harmonious lighting system for the village.



About Innovation

The Automatic Street Lights Control System, incorporating an IR LED sensor, efficiently manages streetlight activation at dusk and deactivation at dawn. This precise functionality, adaptable to varying weather conditions, conserves energy and slashes current bills by 30-40%, promoting sustainability in villages. Eliminating the need for manual intervention, it extends streetlight lifespan, considerably reducing electricity costs. His innovation gained recognition in 2018 when Warangal District Collector Mr. Prashant Jeevan Patil championed its installation in 50 villages.



Advantages

- Automated Lighting
- Enhanced Durability
- Energy efficiency



Applications

- Village Streetlights
- Automated Illumination



Key Features

- Automatic Operation
- Power Surge Protection
- Network-Free Control



Current Stage of Innovation

- Already in Business

AUTOMATIC STREET LIGHTS CONTROL SYSTEM



Researching on one's idea & turning it into innovation can contribute significantly to product development and promotion for social good.





COB HARDBOARD



S JANAKAMMA

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Teacher

The Story

Janakamma was troubled witnessing farmers wastefully discarding maize cobs. Driven by environmental concerns, she sought ways to address the issue and prevent pollution caused by the burning of agricultural residues. Despite facing doubts and resource constraints, she persevered. Through research and planning, she successfully repurposed maize cobs, providing an innovative solution that not only addressed environmental concerns but also contributed to resolving issues in farming practices and bringing income.



About Innovation

Transforming discarded maize cobs into valuable resources, the cob hardboard is crafted by grinding cobs into powder, blending with glue, and moulding, followed by a 4-hour sun-drying process. Originating from a small-scale experiment, this innovation birthed a startup for industrial production. Addressing waste concerns, the cob hardboard offers a practical solution, repurposing agricultural by-products into useful materials on a larger scale.



Advantages

- Cyclic economy
- Eco-friendly material
- Value addition to agriculture



Applications

- Construction materials
- Furniture production
- Packaging industry



Key Features

- Waste conversion
- Biodegradability
- Value Chain Integration



Current Stage of Innovation

- Product Development



Environmental consciousness is not about saving earth, its about keeping it liveable for our own sakes.





BIO-POT MADE WITH GROUNDNUT SHELL



A SRIJA

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Student

The Story

Srija was digging a pit for sowing a plant when she found a polythene bag of a sapling sown years ago. The sapling was planted along with the polythene bag without removal. She discovered that many people plant trees with the polythene bag, fearing root disturbance. Observing the excessive use of polythene bags in nurseries, she became aware of the environmental impact, motivating her to promote sustainable planting practices.



About Innovation

Her initiative seeks to repurpose the overlooked resource by introducing Bio-Pots made from groundnut shells, offering an eco-friendly alternative to conventional black polythene bags in nurseries. Groundnut shells, constituting about 23% of dried peanut pods, become abundant agro-waste post-processing. Despite slow natural degradation, these shells, rich in cellulose, hemicellulose, and lignin, hold functional value. Currently discarded, they are often burnt for cooking, causing environmental pollution.



Advantages

- Environmental Sustainability
- Waste to wealth
- Functional Richness



Applications

- Nurseries and Plant Growth
- Home Gardening
- Agricultural Practices



Key Features

- Biodegradability
- Nutrient-Rich Composition
- Versatility



Current Stage of Innovation

- Already in Business



If we don't save the environment today, we may not have a tomorrow.





B VARSHINI

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👤 Student

🗣 The Story

Motivated by the rampant dumping of harmful plastic waste, composed of petrochemicals detrimental to the environment, innovator Varshini and her guide teacher Firode Hussain decided to take action. Witnessing the tragic impact on animals as plastic mixes with soil and water, they aimed to address this issue by recycling plastic. Their initiative not only contributes to environmental restoration but also plays a crucial role in combating the pervasive problem of plastic pollution.



About Innovation

In a bid to combat plastic pollution, Varshini and Fatima focused on recycling bottles into versatile building materials such as bricks, tiles, paving blocks, and roads. After unsuccessful attempts with different plastics, they refined their method, melting PET bottles, adding sand, and moulding the liquid mixture into durable structures that gained strength upon drying- highlighting their core mission of environmental preservation.



Advantages

- Environmental conservation
- Sustainable building
- Resource efficiency



Applications

- Construction material
- Landfills and levelling



Key Features

- Material repurposing
- Versatile applications of material



Current Stage of Innovation

- Market Ready

CONVERSION OF WASTE PLASTIC INTO USEFUL BRICKS, TILES, PAVING BLOCKS AND ROADS



Save the environment, reduce plastic use. Innovation propels progress; let new inventors usher transformative change.





SAMYUKTHA PENTA

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Associate Professor

The Story

Samyuktha's role as the lead at Center for Innovation and Social Transformation at KG Reddy College and collaboration with five villages revealed the vital role of flower cultivation, constituting 80% of livelihoods in those 5 villages. Witnessing the struggles of horticulture farmers, she felt compelled to develop initiatives addressing labour scarcity and expenses, aiming to reduce significant income losses and support these farmers.



About Innovation

The Solar-powered Incense Stick Making innovatively transforms dry flower waste into valuable incense sticks, addressing floral waste concerns and labour constraints. This high-speed PLC-operated device minimises wastage through precise extrusion mechanisms. Solar panels power the machine, reducing electricity costs while the PLC automation ensures quiet & smooth operation. Recognizing its impact, Samyuktha received a 1 lakh rupees T-SIRI grant from TSIC, marking a significant achievement.



Advantages

- Reduced agriculture/floral wastage
- Financial upliftment of farmers
- Cost- effective



Applications

- Incense and Mosquito repellent sticks
- Agriculture and farms
- Eco- friendly initiatives



Key Features

- Solar-powered operation.
- PLC Automation- enhances accuracy and reduces noise



Current Stage of Innovation

- Market Ready

HIGH-SPEED INCENSE STICK MAKING MACHINE



There is no dearth of innovative ideas to solve problems, but dedication and passion will dictate the transformation of an idea into a solution.





VADLA PRANAVI

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 Post graduation student

The Story

Surrounded by plastic waste, Pranavi and Anupama, during their science bachelor's degree, observed excessive use of thermocol and Styrofoam in lab equipment packing. Researching on their harmful environmental impact fueled their innovation for a sustainable alternative. Driven by the need to reduce plastic pollution, they aimed to provide eco-friendly solutions, marking their commitment to a greener future which resulted in the making of their innovation.



About Innovation

Porcini Parcels utilises mushroom mycelia as a natural adhesive, binding agricultural waste like paddy straw into eco-friendly packaging. Biodegradable in 40-50 days, it requires no water, light, or chemicals for growth. Upcycling nature's waste, it's reusable, compostable, & fire-resistant. With zero carbon emissions and low energy consumption, it offers a sustainable alternative to plastic, fostering a greener, more environmentally conscious lifestyle.



Advantages

- Eco- friendly and biodegradable
- Renewable and sustainable
- Versatility and reusability



Applications

- Packaging industry
- Agricultural practices
- Construction and design



Key Features

- Mycelium adhesive
- Compostable and soil- enhancing
- Zero carbon emissions



Current Stage of Innovation

- prototype Development

PORCINI PARCELS



“ There is no dearth of innovative ideas to solve problems, but dedication and passion will dictate the transformation of an idea into a solution. ”



S PRATIBHA BHARATHI

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-  Entrepreneur

The Story

Pratibha's childhood love for nature & a dream of becoming an entrepreneur fueled her commitment to combat plastic pollution. Recognizing the harm of petrochemical products to the environment and life she founded a company manufacturing bio-compostable alternatives made from natural starch of corn. With a vision for a greener future, she aspires to provide the next generation with a healthier, pollution-free environment, fostering consciousness for clean air and vibrant, sustainable living.

About Innovation

Bio compostable products, a sustainable alternative to single-use plastics, crafted from natural starch sourced from corn and potatoes. These eco-friendly alternatives fully degrade within 180 days in landfills. Serving as a comprehensive replacement for single-use plastics, they contribute to a lower carbon footprint, reduce greenhouse gas emissions, and help preserve non-renewable resources, safeguarding the Earth for a greener future.

Advantages

- Rapid and Natural Decomposition
- Reduced carbon footprint
- Conservation of resources

Applications

- Retail and packaging
- Food service industry
- Waste management

Key Features

- Biocompostable material
- Diversified use of products

Current Stage of Innovation

- Already in business

BIO-COMPOSTABLE BAGS



 Crafting a greener tomorrow aspires to blending innovation with eco-conscious and profitable solutions for a healthier planet. 



ARUNJYOTHI S LOKHANDAY

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 Environmentalist

The Story

Motivated by a deep sense of environmental responsibility and witnessing the challenges posed by wet garbage in her community, Arunjyothi went on to create the Compost Seed Paper. Living in a confined space intensified the problem, prompting her to find a sustainable solution. The vision of fostering tree growth, addressing waste management issues, and contributing to a healthier environment fueled her commitment to developing this eco-friendly and impactful innovation.



About Innovation

Made from wet garbage, The Compost Seed Paper, embedded with seeds promotes robust tree growth. Even when littered, it can fortify the earth, fostering green cover. It also enhances soil fertility and can benefit potted plants. It not only addresses issues of waste management, hygiene and breeding mosquitoes but also contributes to a greener environment, offering a practical solution for societal well-being.



Advantages

- Environmentally conscious
- Natural resource recycling
- Soil improvement



Applications

- Home gardening
- Pot soil enhancement
- Pollution-free environment



Key Features

- Soil fertility enhancement
- Waste management
- Mosquito prevention



Current Stage of Innovation

- Product development

COMPOST SEED PAPER



We need more entities that encourage innovation, turning problems into solutions & sparking new ideas for inventions.




MAIZE HEAT DEVICE



B VINAY VARMA, T ABHILASH, B ABHILASH & M LAXMAN

 Mancherial

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 Students

The Story

Inspired by a scarcity of charcoal for roasting corn and health concerns, Vinay, T. Abhilash, B. Abhilash, and M. Laxman, driven by their teacher's lesson on electricity resistance, devised the Maize Heat Device. Overcoming challenges, they ingeniously harnessed electricity to roast corn, not only addressing health issues but also securing their family's livelihood. This innovation stems from their collective determination to enrich lives amid adversity.



About Innovation

The Maize Heat Device simplifies corn husk roasting, replacing traditional stick coals. Crafted from a 25 cm plastic pipe, nichrome wire, and cement, it harnesses resistance to convert electrical energy to heat. Connected to AC current, it roasts corn cobs in three minutes, eliminating the need for sticks. It secures the livelihoods of such people and makes the job extremely efficient and environmentally sustainable.



Advantages

- Environmental Conservation
- Time and Resource Efficiency



Applications

- Small-Scale Food Businesses
- Community Initiatives
- Rural Development Projects



Key Features

- Efficient Heating Mechanism
- Resource-Friendly Construction
- Versatile Application



Current Stage of Innovation

- Prototype Development



Solutions to make people's lives easier must be at the foundation of an innovation and not just making money from it.



BONDA MAKING MACHINE



JANKE SRINIDHI

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-  Student

The Story

Driven by the motive to ease her mother's efforts in the kitchen, innovator Srinidhi aimed to ease her challenges. Particularly during the preparation of bondas, her mother often burned her hands and faced various issues. Motivated by a strong desire to assist her, Srinidhi shaped an innovative solution that would make snack preparation safer and more efficient for her mother and others facing similar challenges.

About Innovation

The Bonda Making Machine, modified from an existing sev machine, with larger holes for simultaneous production of bigger bondas. The traditional method involved the risk of burns due to hot oil, limiting efficiency. Collaborating with her teacher, they created a device with a hollow cylinder, holes, and a piston. This design simplifies the process, allowing easy and safe preparation of bondas, benefiting cooks, hotels, and vendors.

Advantages

- Increased productivity
- Safety from burns

Applications

- Restaurants and hotels
- Street food vendors
- Catering services



Key Features

- Safety ensured mechanism
- Efficient dough dispensing
- Efficient design for faster production

Current Stage of Innovation

- Prototype Development



 Facing problems every day teaches us to find solutions by showing creativity, resilience, & progress in action. 

AGRICULTURE SPRAYER DRONE



SANTHOSH KUMAR SHASHANI

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 Entrepreneur

The Story

In the agricultural sector, marginal and small still combat pests with manual pesticide spraying. Witnessing the health hazards posed by chemical exposure—skin diseases, lung ailments, and tragic fatalities—he sought a solution. Driven by a commitment to change, his sprayer drone aims to protect farmers from these risks, offering a safer and more efficient approach to pest control in agriculture.

About Innovation

This indigenously made Agriculture Sprayer Drone, an unmanned aerial vehicle, revolutionises crop protection. With a 10-litre tank, it autonomously flies over predefined land boundaries, completing 30 acres of spraying in a single day, surpassing human labour efficiency. Its precision reduces pesticide dosage, promoting crop yield. Employing ultra-low volume spraying, the innovation slashes pesticide usage from 150 to 10 litres per acre, marking a transformative step in sustainable and efficient agricultural practices.

Advantages

- Precision & reduced pesticide use
- Improved health of farmers
- Time- efficiency

Applications

- Crop protection
- Large scale farming

Key Features

- Autonomous operation
- 10- Litre tank capacity
- Efficient volume spraying

Current Stage of Innovation

- Already in Business



Innovation in application of existing tools & technologies, can lead to newer ideas stretching beyond geographies and sectors.





VISHAL SINGHAL

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 Founder of Temperate Technologies Pvt Ltd.

The Story

Farmers face significant struggles in preserving fruits & vegetables, causing substantial losses due to inadequate storage solutions. The rapid spoilage diminishes market value, impacting their economic stability. In response, Vishal initiated a mission to address these challenges, striving to mitigate losses and empower farmers. Through innovative storage solutions, he envisions securing a sustainable future for agricultural communities, fostering economic resilience and reducing post-harvest losses.

About Innovation

Temperate Technologies presents a cost-effective, low-power cold storage solution for short-term storage of fruits & vegetables in India. Maintaining an ideal temperature (20-25°C) & humidity (80-90%), it substantially extends shelf life, benefiting over 80% of use cases. This farm gate cold storage empowers farmers and FPOs by reducing wastage, cutting transport costs, & facilitating value-addition activities like cleaning and packing.

Advantages

- Reduced post harvest losses
- Extended shelf life
- Cost-efficient

Applications

- FPO'S
- Wholesale fruits & Vegetable Dealers
- Large Farmers

Key Features

- Customizable temperature and humidity control
- Low power consumption
- Added Solar power feature

Current Stage of Innovation

- Already in business

JEEVA COLD ROOM




 Fueling our innovation journey, Telangana Innovation Cell immense support and the T-SIRI grant has amplified our vision to transform agriculture into a thriving, sustain





A ANIKETH, R VARUN, P REVANTH REDDY, & L GOUTHAMI

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 Students

The Story

The tragedy of Aniketh's grandfather, who succumbed to a misunderstood prescription from a doctor, inspired Aniketh, Revanth, Varun, Gouthami, and guide teacher, Kalynal, to improve healthcare facilities. Rural villages sometimes lack accurate prescriptions from doctors which lead to medication errors and health complications. For this, Aniketh came up with the idea of e-prescriptions to push for proper and potentially life-saving medical guidance and instruction.



About Innovation

Aniketh's innovation aims to prevent tragedies like his grandfather's by introducing an E-Prescription System. This innovation transforms handwritten prescriptions into accurate printed records, addressing issues of errors and illegibility. The printed format ensures correctness, clarity, and enables patients to maintain a secure health record. This initiative curbs over-the-counter drug misuse, serving future medical needs and enhancing overall healthcare efficiency.



Advantages

- Error-Free Prescriptions
- Comprehensive Patient Information
- Accessible Dosage Instructions



Applications

- Medical App Integration
- Hospital Prescription Printing



Key Features

- Easy to read digital instruction
- Secure Medical Records



Current Stage of Innovation

- Prototype Development

E - PRINTING OF DOCTOR'S PRESCRIPTION



Access to optimal health is a fundamental right, it fosters well-being & prosperity in every community.





ALLADI PRABHAKAR

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-  Electrician

The Story

Prabhakar witnessed the challenging task of transferring dependent patients from the bed to the washroom, recognizing the hardships faced by caregivers and the patients both. This challenge intensifies the dependence of patients on family members for basic daily tasks. The frequent shifts not only cause discomfort but also threaten to disturb the recovery process in cases of fractures or surgeries. Driven by the purpose of making the process more dignified and easily managed, resulted in him coming up with his innovative solution.

About Innovation

The Multipurpose Cot revolutionises care for bedridden patients, integrating a built-in commode, wash basin, flush, hand shower, and drain outlet, eliminating the need for bathroom visits. Designed empathetically to address patients' struggles, the cot promotes independence - sliding the mattress unveils a self-contained space for personal hygiene. Recognizing its impact, Prabhakar received a grant of Rs 20,00,000 from TGIC for this innovative device.

Advantages

- Independence for bedridden patients
- Hygienic and self-contained
- Cost-efficient

Applications

- Hospitals/ clinics
- Home care
- Elderly facilities

Key Features



- Built in facilities- wash basin, wash basin, etc
- Sliding mechanism for access

Current Stage of Innovation

- Already in Business

MULTIPURPOSE COT FOR BED RIDDEN PATIENTS



 If you have an idea to solve a problem, pursue it with all your passion and dedication. Support in terms of funding or mentorship will definitely find its way to you, my case is a perfect example for the same. 

WATER PURIFIER



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 Graduate

The Story

During a summer visit to his village, Saicharan noticed that his Grandmother's health ailments were exacerbated by the toxic water supply. Dismayed by the lack of access to clean water, he embarked on a mission to research and develop a solution, driven by the desire to improve not only her life but also the well-being of the entire community. The result of which was the cost effective water purifier.



About Innovation

Saicharan's cost-effective water purifier not only filters impurities but allows users to customise Total Dissolved Solids (TDS) and pH levels. Its multiple settings provide the flexibility to control the pH and processing levels of the water, to suit the use purifier in diverse geographies. This innovation, providing purified water and a personalized experience, earned a gold medal at INEX for its unparalleled solution in water purification.



Advantages

- Clean water accessibility to all
- Improved health indicators
- Environmental sustainability



Applications

- Water supply in urban & rural areas
- Water quality development projects



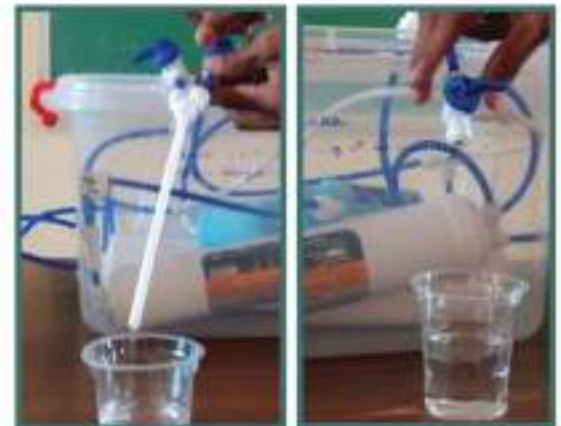
Key Features

- Adjustable TDS and pH levels
- Versatile Water Output
- Affordability and efficiency



Current Stage of Innovation

- Prototype Development



Innovation acts as a bridge from the present to the future, turning challenges into opportunities & dreams into reality.





HEMESH CHADALAVADA

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 Student

The Story

Hemesh's high school journey took a transformative turn when his grandmother's fall due to Alzheimer's sparked inventive problem-solving. Fueled by love and a commitment to her safety, he embraced design thinking, finding inspiration at ARDSI, a dementia care centre. Overcoming challenges, he experimented with LoRa technology, leading to a commitment to creating a technological solution that addresses the challenges faced by those dealing with Alzheimer's.

About Innovation

The Alpha Monitor, a customizable wearable with an IMU sensor and TinyML model, ensures Alzheimer's patients' safety. Worn discreetly, it detects falls or wandering, transmitting real-time data to an alarm station. Connected to WiFi, the station alerts caregivers through a buzzer & mobile app. It contains features like fall detection, wandering alerts, long-range communication, & valuable data for Alzheimer's research, offering enhanced safety and peace of mind for caregivers and family.

Advantages

- Enhanced safety
- Instant alerts to caregivers
- Contribution to Alzheimer's research

Applications

- Elderly care
- Medical research
- Family/ at home care

Key Features

- Fall detection
- Wandering alerts
- Long- range communication

Current Stage of Innovation

- Prototype Development

ALPHA MONITOR



 The internet, my greatest mentor, transformed my life. Harness its full potential to explore passions and upskill. 

SWITCH-PHONE



NANDAGIRI ADITYA

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 Startup Founder

The Story

During a visit to his old aunt, Aditya observed how difficult it is for the elderly to handle a regular phone. Though smartphones have multiple services and applications, the elderly, illiterate, and even literates cannot connect to an emergency service fast enough in times of urgency. This problem caught his attention, and he thought of a solution with a simple User Interface that led to his innovation, the Switch Phone.



About Innovation

The Switch-Phone revolutionises emergency communication for the elderly, providing a user-friendly electrical switch interface. Tailored for users aged 60 and above who may struggle with conventional phones, it seamlessly connects to services like ambulances, hospitals, and pharmacies. It facilitates appointments, medicine delivery, & ambulance requests, incorporating a pre-installed SIM card. Additionally, a sensor glove relays user health parameters to doctors and family members via WhatsApp, enhancing healthcare accessibility and communication.



Advantages

- User-Friendly Interface
- Emergency Connectivity
- Health Monitoring



Applications

- Emergency Services
- Healthcare Management
- Remote Monitoring



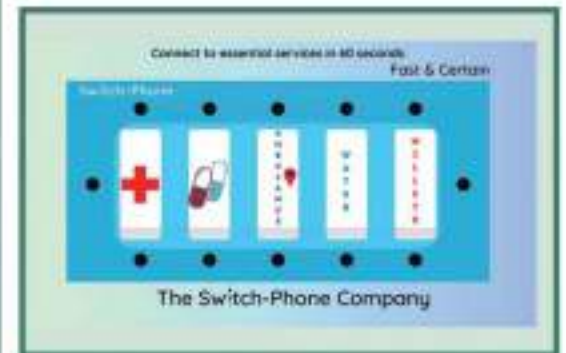
Key Features

- Electrical Switch Interface
- Pre-Installed SIM Card
- Sensor Glove



Current Stage of Innovation

- Market Ready



Turning social problems into an opportunity for creating and innovating is the key to entrepreneurship.





NIKIL DARSHANAM

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 Student

The Story

Nikhil, driven by a desire to instigate change in society and improve the quality of life, started Blue Wings Innovation of Technology. His passion for pioneering technologies for societal impact and national pride pushed him to innovate by creating a connection between nature and technology. Him and his team's aspirations to foster positive change in the world led them to create his innovative PN Mask.



About Innovation

The PN Mask addresses respiratory challenges, prioritising comfort for individuals with asthma and allergies. Nikhil acknowledges the discomfort of prolonged mask use and the potential CO2 inhalation issues. His innovation focuses on enhancing breathability, offering a more effective and comfortable alternative. This is particularly crucial for children, easing their adaptation to continuous mask usage while addressing the specific challenges faced by those with respiratory conditions.



Advantages

- Comprehensive Respiratory Care
- Advanced Precautionary Measures
- Dual Functionality



Applications

- Law Enforcement Duty
- Office Environments
- Health facilities



Key Features

- Pocket Nebulizer
- Anti-viral Respiratory care
- Compact and Convenient



Current Stage of Innovation

- Prototype Development

PN MASK



TGIC offers excellent support for young entrepreneurs, fostering growth with a dedicated and helpful team.



ORGANIC CHALK



P HARSHIT & K RUDRA

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-  Students

The Story

In India's educational system with 10 lakh schools, the widespread use of Gypsum-based chalk poses a health risk. Approximately 30 crore students face daily exposure to chalk dust that can lead to allergies, asthma, eye irritation, and respiratory problems. Students Harshit & Rudra, discovered this issue when a classmate faced frequent absences due to chalk dust allergies. Teachers exposed to this also bear the brunt impacting the overall classroom environment.

About Innovation

In 2019, 8th graders Harsha and Rudra, with the guidance of teacher Lunde Ramu, pioneered an eco-friendly solution—Organic Chalk. Utilising rice flour and sudda matti, they created dust-free, fragrant chalk. Their innovation, infused with herbal extracts like Neem oil & Eucalyptus, eliminates dust-related ailments. Aromatic fragrances like Rose water and Jasmine enhance the learning environment, promoting student well-being & elevating the overall educational experience.

Advantages

- Eco-friendly
- Health-Focused Formula
- Refreshing Atmosphere

Applications

- Schools
- Educational Institutions
- Rangolis

Key Features

- Organic Substitutes
- Health conscious

Current Stage of Innovation

- Product Development



Seek proper support in steering through your problem-solving, it's the hallmark of making innovation.





PANDUGA SAHASRA

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 Student

The Story

In the face of family struggles and financial strain along with the burden of care to her bedridden 92-year-old grandfather, Sahasra sought a solution. She wanted to ease this burden and improve the quality of her Grandfather's life. Inspired by a hydraulic system she observed on a tractor, she envisioned a hydraulic jack to ease the burden of lifting her grandfather. Motivated by the need to balance caregiving responsibilities with agriculture, Sahasra embarked on this innovation to bring relief to her family.



About Innovation

Helping Hands of Old Aged/Patients is an innovative project comprising three aids designed for the elderly and bedridden patients facing challenges in mobility. The lifting aid allows a single person to safely lift patients, facilitating easy transportation between beds or from bed to chair. Versatile and cost-effective, this innovation serves both domestic and commercial purposes, providing a simple, portable, and maintenance-free solution to improve the lives of those in need.



Advantages

- User-friendly operation
- Cost-effective
- Eco-friendly



Applications

- Home care
- Hospital use
- Emergency services



Key Features

- Effortless patient transfer
- Portable design
- Versatility in application



Current Stage of Innovation

- Prototype Development

HELPING HANDS FOR OLD AGED/PATIENTS



 Guidance & mentorship in Innovation is needed to enrich our ideas in bringing our innovative product to the market to solve problems. 



POONGOTHAI AYE PALAYAM RAMASWAMY

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-  Founder & Director of Chrogene Aarogyam Biotech Private limited

The Story

With over 25 years of experience in both academics and industry, the founder of Chrogene Aarogyam Biotech Private Limited, Poongothai Ramaswamy holds a Master's in Human Genetics and a Ph.D. in Cancer Genetics. Passionate about sharing knowledge, he gives lectures and is a registered Patent Agent. His work on non-invasive diagnostics for sickle cell disease secured funding from BIRAC-BIG, TGIC, & the Amrit Grand Challenge.

About Innovation

His innovation, a new way to screen for Sickle Cell Disease (SCD) using a portable device. Unlike other methods that are expensive, their approach is affordable for mass screening, especially in rural areas. This user-friendly tool aims to change how we diagnose SCD early, making it accessible in places with fewer resources. It's designed to help tribal populations and save lives, especially those of affected children.

Advantages

- Non-Invasive Screening
- Portability and Battery Operation
- Affordability and Accessibility

Applications

- Disease Progression Monitoring
- Predictive Device for Blood Transfusions
- Treatment Response Evolution

Key Features

- Photoplethysmography (PPG) Technology
- User-Friendly Setup
- Cost-Effective & Economically Efficient

Current Stage of Innovation

- Prototype Development

NON-INVASIVE POINT OF CARE DIAGNOSTICS FOR SICKLE CELL DISEASE



Accessible & affordable Healthcare for all, embodies the mantra of universal well-being.






M SHARMILA AND TEAM

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 Teacher

The Story

In hospitals, patients on saline treatment face risks like reverse blood flow & air embolism when fluid levels drop, jeopardising lives and causing anxiety. Healthcare staff, especially during crises like COVID-19, find it challenging to monitor numerous patients. The innovators-Sharmila, Naman, Soham, Debansh, and Sanvisree proposed a solution for real-time IV fluid & saline level monitoring, aiming to ease the burden on paramedic staff and ensure patient well-being.



About Innovation

The "intravenous Fluid indicator" innovatively reduces the workload for nurses by ensuring constant monitoring of IV fluid levels. Operated by Arduino, the device incorporates a load cell to measure saline weight, triggering an LED and alarm when levels are low. Connected to a GSM module, it sends alerts to the nurse's phone. The adjustable low-level points add flexibility. This innovation enhances patient care by providing real-time notifications, streamlining the workflow for healthcare professionals.



Advantages

- Real-time monitoring
- Enhanced caretaking efficiency
- Patient safety



Applications

- Hospitals/clinics
- Healthcare outreach programs



Key Features

- LED and buzzer alert system
- Connected app for mobile alerts
- Adjustable low-level points for saline levels



Current Stage of Innovation

- Product Development

INTRAVENOUS FLUID INDICATOR



Identify a problem, no idea is inherently good or bad; solve it innovatively for progress.





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-  Student

The Story

Observing women silently enduring hardships during menstruation due to a lack of access to proper pads, Shravanthi recognized their selfless dedication to family and society. Witnessing their struggles, she empathetically addressed the issue by introducing a simple yet impactful solution. Her commitment to enhancing lives is evident in this initiative, making daily life easier, promoting hygiene, and safeguarding women's health.

About Innovation

HYGEIA strives to revolutionise menstrual hygiene in India, addressing challenges with reusable cloth pads. This compact device ensures optimal cleanliness by integrating a warming element for efficient drying, preventing bacterial growth. Harnessing UV light technology, HYGEIA further disinfects, eliminating pathogens. This comprehensive solution promotes better hygiene practices, minimising infection risks and enhancing the overall well-being of menstruators relying on reusable cloth pads for menstrual needs.

Advantages

- Quick Drying
- Pathogen Elimination
- User-Friendly

Applications

- Personal Hygiene solution
- Public facilities
- Schools and Colleges

Key Features

- Sustainable solution
- UV light drying
- Compatibility

Current Stage of Innovation

- Prototype Development

HYGEIA



 Trust yourself and welcome feedback on your idea, chase goals. It only helps your solution become more acceptable and viable. 



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 Student

The Story

Basheera observed her father, a wheelchair user, struggling to reach things from his wheelchair, the idea of an elevating wheelchair struck. Despite the freedom it provided, the limitation in reaching higher objects led to occasional falls. Recognizing the need for accessibility, the notion of raising the wheelchair emerged with the guidance of her teacher Purnima, aiming to enhance convenience and independence for individuals with mobility challenges.



About Innovation

The Hydraulic Lifting Wheelchair with a built-in hydraulic system and user-friendly button allows users to gain autonomy in accessing items at varied heights. This innovation instils confidence, enabling users to accomplish tasks independently. Particularly beneficial for amputee pregnant women, it promotes self-reliance. Cost-effective and versatile, this invention ensures usability at home or outdoors, offering a universally accessible solution. Easy to manufacture, highly usable, and low-cost, our innovation opens new possibilities for diverse users.



Advantages

- Enhanced independence
- Cost-effective
- Versatility and usability



Applications

- Home use
- Outdoor mobility
- Healthcare facilities



Key Features

- Hydraulic lifting system
- User-friendly button
- Adaptability for different needs



Current Stage of Innovation

- Product Development

HYDRAULIC LIFTING WHEELCHAIR



Using innovation to empower people with mobility challenges is needed for their full integration & contribution to the society.





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 Entrepreneur

The Story

Passionate about women's health, Sridevi empowers rural women to craft herbal nutrition products for children, pregnant and lactating women, & elders, ensuring optimal health. Through training, her team fosters self-sufficiency & connects women with banks for financial access. Their comprehensive support, from training to setup, includes marketing facilitation. Numerous successful training programs, sponsored by NABARD and government agencies, underline their commitment to advancing women's well-being in rural communities.



About Innovation

Sridatta Nutrition focuses on customised herbal nutrition for diverse village needs, catering to children, women, and elders. With a special emphasis on lactating and pregnant women, our handholding support enables rural units, promoting cost-effective nutrition. We empower rural women to establish small units, facilitating commercial upscaling. In Nizamabad, their collaboration with experts and bankers ensures market facilitation, while targeted training builds capacity for herbal product creation from locally available ingredients in rural kitchens.



Advantages

- Customised Nutrition
- Empowering Rural Women
- Cost-Effective and Accessible



Applications

- Aanganwadi centres
- Primary Educational institutions
- Community health centres



Key Features

- Tailored Training
- Holistic Health Approach
- Economic Empowerment



Current Stage of Innovation

- Product Development

HERBAL NUTRITION PRODUCTS – SRIDATTA NUTRITION



Innovation acts as a bridge from the present to the future, turning challenges into opportunities & dreams into reality.





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The Story

In remote rural areas with limited access to medical services and stores, providing basic emergency medicines becomes crucial. Night-time emergencies, such as a fever or a stomach ache, can pose significant challenges. Personal experiences of Bhavya, Harini Saimadhav and Sanvi in villages pushed them to create an innovative project, an emergency medicine vending machine. Such an initiative ensures timely access to essential medicines and overall healthcare in underserved communities.

About Innovation

The Emergency Medicine Vending Machine offers vital medications without prescriptions in rural villages, addressing immediate health needs. Dispensing items like headache, cold, and cough tablets, it mitigates the severity of health issues before patients reach hospitals. This innovative solution ensures swift access to essential medicines, especially during nighttime emergencies, significantly improving healthcare outcomes in underserved communities.

Advantages

- Timely Access to Medications
- 24/7 Availability
- Symptomatic Relief

Applications

- Remote Villages
- Emergency Response
- Travel Hubs

Key Features

- Controlled Storage
- Remote Monitoring & Restocking

Current Stage of Innovation

- Prototype Development

EMERGENCY MEDICINE VENDING MACHINE



 A small innovation can also help the society by solving the small problems in large numbers. 

MODHA PEDAL OPERATING MACHINE FOR HANDLOOMS



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 Entrepreneur

The Story

Observing the challenges faced by weavers in their daily toil, Siva empathised with their persistent knee and back pain. His invention, a pedal operating machine, aims to alleviate their physical struggles, providing relief in dimly lit workshops. The machine garnered wide appreciation as it became a beacon of hope for weary weavers, demonstrating the impactful potential of a small idea in improving the lives of hardworking individuals.

About Innovation

The Modha Pedal Operating Machine is a great help for handloom workers dealing with knee and back pain. It easily attaches to the loom in just an hour. By pressing a toe switch, it takes away the daily 20-45 kg load, making weaving easier. The machine does not necessarily need electricity. This simple, adaptable machine boosts production, improves cloth quality, bringing relief to workers across the country.

Advantages

- Preserving Artistic Heritage
- Enhanced Livelihood Opportunities
- Cultural Sustainability

Applications

- Efficient Handloom Weaving
- Empowering Elderly Weavers

Key Features

- Toe-Switch Activation
- Adaptability to Various Looms
- Electricity-Independent Operation

Current Stage of Innovation

- Already In Business



Innovate for lives, health, and society. Small ideas wield profound impact in uplifting communities worldwide.





GUNDETI MADHU

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The Story

Innovator Madhu recounts his journey at 20, working in a Hanumakonda oil shop, earning about 800 rupees monthly. Faced with expensive daily auto commutes costing 600 rupees, he sought a cost-saving solution. Researching spring energy, he devised a plan to harness its lifting power for a cycle, optimising energy and transforming his commute. This led to him creating a sustainable solution for conveyance.

About Innovation

The Spring Loaded Rotational Multiplier Machine serves as an innovative alternate source for charging battery vehicles. While comparable to engines on solar and battery power systems, it uniquely utilises springs for effective energy production. Addressing the limitations of present battery vehicles, it charges the battery while the vehicle is in motion. It efficiently transmits energy through springs, shafts, and wheels resulting in numerous output rotations enhancing the output.

Advantages

- Energy efficiency
- Cost-effective
- Environmental Consciousness

Applications

- Off- Grid power generation
- Electric Vehicle initiatives
- Mechanical energy storage

Key Features

- Efficient energy charging while in motion
- Versatile mechanism

Current Stage of Innovation

- Prototype Development

SPRING LOADED ROTATIONAL MULTIPLAYER MACHINE



 Persist and work hard in your pursuit until success is achieved. Support will find its way to you. 



P ARUNA

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 House Wife

The Story

Aruna welcomed her baby boy in 2023. She was driven to address the challenge that almost every mother faces in putting the kid to sleep. Placing him in the cradle meant waking every two hours for feeding. Transitioning him to the bed didn't work, requiring constant leg-cradling. Understanding this common struggle for many mothers, Aruna came up with a clever solution to simplify bedtime and make parenting a bit easier.

About Innovation

The Mother-Side Cradle, designed for improving bedtime comfort, using only two steel rods and springs. This innovative cradle, made at just ₹500, brings babies closer to their mothers on the bed. Addressing the inconvenience of checking on the child during the night, it proves especially useful for mothers using mosquito nets. Its versatility allows easy shape and size adjustments, making it a practical and portable solution.

Advantages

- Baby monitoring Convenience
- Improved sleep

Applications

- Home use
- Travel companion
- Mosquito net integration

Key Features

- Cost-effective
- Adaptability
- Versatility

Current Stage of Innovation

- Prototype Development

MOTHER-SIDE CRADLE



 An idea, a driven individual & the right support can empower anyone to address societal challenges. 

VASAVI MOTORS



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 Businessman

The Story

Committed to environmental sustainability, Venkatesham with his business actively engages in initiatives that contribute to a cleaner and greener future for all. Vasavi Motors, a Go Green Eco Project by GSF (Green Seva Foundation) aligning with the Swachh Bharat Mission and eco-friendly initiatives. His innovation advocates saving fuel, preserving nature, and endorses hydrogen mobility, solar, battery technology, wind, fuel cells, and energy storage.

About Innovation

Vasavi Motors pioneers electric vehicles with customizable designs & eco-friendliness and it advocates saving fuel and nature, endorsing hydrogen mobility, energy storage, solar, battery technology, wind, fuel cells. Offering E-Mobility for diverse applications, Vasavi Motors provides licence-free, pollution-free electric & hydrogen vehicles, catering to daily, commercial, and industrial usage, advancing the vision of a sustainable, green future.

Advantages

- Eco-Friendly Transportation
- Versatile Mobility Solutions
- Cost- Effective

Applications

- Daily Usage
- Commercial and Industrial Use
- Family and Youth Mobility

Key Features

- Customizable Designs
- Hydrogen Mobility Support
- E-Mobility for Everyone

Current Stage of Innovation

- Already in Business



 Use electric vehicles and save fuel, nature and our future. 

MAHILA VANTAMITRA



P VINILA

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 Student

The Story

Motivated by her aunt, a school cook facing daily challenges, Vinila embarked on a project to alleviate the back and joint pain experienced by many women cooking midday meals in government schools. Often carrying heavy utensils, everyday, these cooks grind 50 to 100 kg of rice. Witnessing the prevalence of back and joint pain, she succeeded in creating an innovative solution for their well-being.



About Innovation

Vinila designed a revolutionary utensil supporter (Mahila Vantamitra) to address the back & joint pain experienced by women cooking in government schools. This device, equipped with a rotating jockey, enables efficient rice cooking without assistance. With wheels for easy mobility, adaptable height for stoves, and weighing only 10 kg, it offers a portable & space-saving solution, providing relief from health issues associated with daily cooking challenges.



Advantages

- Mobility and Adaptability
- Portability



Applications

- Kitchens
- Fast food establishments



Key Features

- Rotating Jockey
- Mobile Utensil Transport
- Adaptable Stove Support



Current Stage of Innovation

- Market Ready



Rural innovations can go a long way in solving local problems and scaling it to markets successfully.





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 Gold Smith

The Story

Experiencing the challenges of obtaining specialised parts for smithing, sparked Ravikanth's quest for a better solution. Witnessing rural artisans endure hardships in accessing precision components motivated him to explore innovative alternatives. While additive manufacturing is promising, its limitations in precision & accessibility hinder effectiveness. This persistent challenge in manufacturing, especially for intricate designs, drove him to seek an accessible and cost-effective solution for addressing the demand.

About Innovation

Reimagining manufacturing, the blend of 3D printing with precise crafting makes precision manufacturing accessible for professionals in the moulding, casting, and jewellery fields. This innovation promises cost-effective 3D parts for not only jewelry but various industries like medicine and aerospace. Accessible to smaller businesses, it fuels competition and innovation, ensuring a seamless flow of intricate designs to customers, eliminating financial barriers for creators.

Advantages

- Improved precision in creating parts
- Reduced wastage of material
- Cost- efficient

Applications

- Jewelry making
- Automotive parts
- Medical device manufacturing

Key Features

- 3D printing
- precise crafting
- Adaptable sizing

Current Stage of Innovation

- Market Ready

ADVANCED METHOD OF MAKING JEWELLERY MASTERPIECE FOR MOULDING AND VACUUM CASTING



 Embrace your innovation. Small ideas carry transformative power. Challenge norms, spark change, and shape a brighter tomorrow. 

ELECTRIC TRUCK CARRIER



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The Story

Vivekanda's role as a Technician at IIT Hyderabad prompted him to take note of the substantial environmental impact of trucks on Hyderabad's Outer Ring Road (ORR). Witnessing firsthand the pollution, congestion, and inefficiency caused by traditional trucks, he was inspired to reimagine transportation solutions. This experience fueled his determination to develop eco-friendly alternatives and contribute to a more sustainable and efficient future for urban logistics.

About Innovation

Inspired by E-highways, the Electric Truck Carrier is a visionary solution designed to transport trucks efficiently, reducing pollution without imposing a burden on owners. This innovative concept, recognized with design registration, mirrors a battery-powered metro train and adeptly carries heavy vehicles on highways, curbing carbon footprints and fuel consumption. With a height-adjustable platform and easy rear loading, it enhances efficiency, contributing to a cleaner and sustainable future.

Advantages

- Cost efficient
- Employment Generation

Applications

- Long-distance Transport
- Highway Usage


Key Features

- Efficient Loading
- Height Adjustment
- Quick Unloading

Current Stage of Innovation

- Product Development




 Innovation must be inspired from the desire to address the root causes of problems, benefiting both creators & users, fostering a brighter future for all. 



G NITHIN, RUHINA ANJUM, B AKHILA & THOUSIP

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 Students

The Story

During lockdown in their village, Nithin, Ruhina, Akhila and Thousip witnessed locals lifting heavy rice bags, and resorting to alcohol to cope with the pain. Their labour led to health issues such as shoulder and back pain. The strain of carrying bags over long distances proved challenging. Recognizing the physical toll, they pushed for an innovative solution to alleviate their burden, promoting health, and addressing the reliance on alcohol as a coping mechanism.

About Innovation

The Innovative Rice-Shifting Bag model combines features of a school bag and luggage bag, incorporating two rectangular wooden beats for support. A belt reinforces the bag, and tri-wheels facilitate easy stair climbing. A metal handle allows smooth pushing on plain surfaces and stairs. Wide school bag stripes minimise shoulder pressure. Cost and weight are further reduced by substituting hard plastic for wooden planks, enhancing efficiency and affordability.

Advantages

- Enhanced Ergonomics
- Versatility and Adaptability
- Cost-Effective and Lightweight

Applications

- Agricultural Sector
- Logistics and Warehousing
- Urban Areas and Public Spaces

Key Features

- Tri-Wheel System
- Adaptable Handle Design
- Shoulder-Friendly Straps

Current Stage of Innovation

- Prototype Development

RICE SHIFTING BAG




 Local problems require local solutions, scaling them can make the idea bigger & the problem smaller. 

ELECTRIC CAR



T BEECHUPALLY

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 Auto driver

The Story

Driving a diesel auto for five years, a huge chunk of Beechupally's income went only towards his fuel and maintenance expenses. He had aspired to switch to an electric auto, but the showroom quoted four lakhs. Undeterred, he discovered he could convert his existing auto into an electric vehicle. With 80,000 Rupees and spare parts from Delhi, he transformed his old auto into an electric car, realising his dream affordably. Later, he spent 1,20,000 Rupees and assembled an electric vehicle from spares of Maruti 800 car.

About Innovation

A 1000-watt electric car, crafted from Maruti 800 spare parts, boasts a 60V controller and 42-inch differential. Fueled by four 130Ah lead-acid batteries, it reaches 30 km/h, covering 100 km on one charge. Affordable and repair-friendly, the 300 kg vehicle seats four, offers a low daily running and maintenance costs, and ensures an eco-friendly and safer travel.

Advantages

- Cost effective transportation
- Eco- friendly operation

Applications

- Urban/ rural commuting
- Local transportation services
- Eco- tourism initiatives

Key Features

- Long range and quick charging
- Safe and controlled charging
- Versatile and repair friendly

Current Stage of Innovation

- Market Ready



 Innovation must not only tackle today's challenges, but also pave the way to solve future problems. Social responsibility & consciousness must be at the centre of innovation. 



S AKHIL, VIGNESH AND DEEPAK

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The Story

An acquaintance of the innovators met with a severe accident while transporting vegetables on his bike. Overloaded bags caused discomfort, imbalance, and injuries. Upon investigating, they discovered issues like damaged roads and space conflicts with co-riders. Determined to help, they innovated a secure and efficient vegetable carrier, addressing these problems for safer and smoother vegetable transportation for vendors.

About Innovation

The innovative "Bike Carrier cum Vending Cart" addresses issues observed in vegetable vendors carrying produce on bikes. Designed with three boxes (upper, middle, and lower), it offers space-efficient storage, allowing vendors to sell 12 varieties of vegetables, leafy greens, fruits, and more. The cart attaches to various bikes and bicycles, making transportation smooth. It ensures easy manoeuvring, occupies less road space, and provides convenience in both transportation and vending.

Advantages

- Efficient Space management
- Versatile storage
- Easy manoeuvring

Applications

- Vegetable vending
- Fruit and flower vending
- Mobile ice- cooling

Key Features

- Multi-chambered design
- Adaptable attachment
- Efficient design

Current Stage of Innovation

- Prototype Development

BIKE CARRIER CUM VENDING CART



Observe problems, feel the need for solutions, innovate products to alleviate pain & inconvenience for others.

SURAKSHA



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-  Graduate

The Story

Inspired by real-life accounts and Singareni coal mines' visit, Grahya and team address the pressing issue of accidents in coal mines. Recognizing hazards like human error and natural calamities, they aim to provide a solution for individual health monitoring of workers. While accidents are inevitable, their focus is on minimising delay time, ensuring a prompt response to emergencies, and safeguarding workers' well-being.

About Innovation

Suraksha, a groundbreaking low-power safety device for underground mines, revolutionises worker safety. Offering continuous monitoring, gas detection, and communication, it minimises risks and streamlines rescue efforts. This innovation bridges gaps in mine safety with features like position tracking, emergency response, improved communication, worker accountability, & crisis management. Versatile applications span industrial sectors, ensuring enhanced safety and productivity in environments like crude oil & petroleum mines. Suraksha guarantees a safer, more efficient work environment.

Advantages

- Enhanced Worker Safety
- Minimised Risks
- Improved Communication

Applications

- Industrial Sector
- Mining Activity

Key Features

- Position Tracking
- Emergency Response
- Gas Detection

Current Stage of Innovation

- Market Ready




Hazardous workspaces need all the innovation to make their work easier & for people to value life.



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The Story

In response to the pervasive threat of harassment and violence faced by women, Ishani, Manojna, and Nakshatra were desperate to address the issue. Their commitment to women empowerment extends to organising workshops & training sessions. Through education on self-defence techniques and risk assessment with their innovation, they aim to challenge existing power dynamics and foster an environment where women can reclaim agency and move freely without fear.



About Innovation

The Mahila Suraksha Band, conceived from shared concerns about women's safety, is a multifaceted safety device. Combining self-defence features like a non-lethal electric shock and high-pitched alarm with SOS messaging and GPS, it ensures quick help. With live streaming and discreet watch functionality, it's both stylish & practical. Recognized by the Telangana government and supported by TGIC, this innovative project has been showcased on platforms like T-Hub and WeHub.



Advantages

- Enhanced women's safety
- Swift assistance for immediate help
- Discreet design for extra safety



Applications

- Individual safety
- Workplace security
- Educational initiatives



Key Features

- Electric Shock Self-Defense
- SOS Communication with GPS
- Live Streaming Capability



Current Stage of Innovation

- Prototype Development

MAHILA SURAKSHA BAND



Women's struggles to find their rightful place and contribution to the society is founded on ensuring the right of every woman's social safety.





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 FEA Engineer

The Story

Motivated by a poignant incident of a close relative's death, innovator Naveen spurred into action. Witnessing the devastating impact of a family tragedy caused by drunk driving, he felt compelled to address road safety. Collaborating with his friend Sai, Naveen channelled his grief into creating an innovative commuter safety system. Their goal was clear: to prevent such heart-wrenching incidents and make roads safer for everyone.

About Innovation

The "Alcohol Detection Helmet" is an innovative bike safety innovation featuring an alcohol sensor in the helmet, it wirelessly transmits breath analysis to the engine. If irregularities are detected, it activates an engine cut-off switch. Additionally, a GPS-GSM module sends the bike's live location to authorities, preventing intoxicated driving. This integrated system enhances road safety by curbing drunk riding incidents.

Advantages

- Prevents drunk driving
- Real time monitoring
- Enhances safety

Applications

- Transportation
- Community safety programs

Key Features



- Breath alcohol detection
- GPS location tracking
- Immediate alert system

Current Stage of Innovation

- Prototype Development

COMPOST SEED PAPER



 Innovation is the ability to see change as an opportunity not just as an option. 



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The Story

Dismayed by the pervasive fear and challenges confronting women and their participation in the society, Pooja was motivated to find a solution to address this issue and make spaces more accessible to women. Pooja's innovation aims to address the hesitancy many feel in pursuing education or jobs due to safety concerns. Her inventive solution seeks to empower women, fostering a secure environment that encourages them to pursue their dreams without the hindrance of unsafe conditions.



About Innovation

The Women Safety Hair Rubber Band acts as a discreet self-defence tool for women facing safety concerns. When braided, the band serves as an alert system; a press on the band triggers a police horn sound, deterring potential threats. In more serious situations, a second press notifies the nearest SHE TEAM OFFICE, sharing live location for immediate assistance and enhancing women's safety.



Advantages

- Heightened safety
- Discreet design
- Deterrence from harm



Applications

- Personal safety
- Making public spaces more accessible to women



Key Features

- Police horn
- She Team Alert
- Location sharing



Current Stage of Innovation

- Prototype Development

WOMEN SAFETY HAIR RUBBER BAND



In every societal challenge lies an opportunity for solution, a call for us to apply our knowledge & make spaces more accessible and safe for every- one to participate in building the society.





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-  Educator

The Story

Saikumar Madi from Suryapet district, was moved by the tragic gas leaks and fire accidents and envisioned a solution for it during his B.Tech. Witnessing the challenges faced by rescuers, he aimed to create a versatile, robust system capable of saving lives in any crisis. Driven by a commitment to public safety, he aspired to collaborate with the government for widespread implementation of his life-saving innovation, a semi-automated robot.



About Innovation

"Naveen" a semi-automated electro-mechanical rescue robot, responds to fire accidents or chemical leaks. It provides real-time audio and video information and safeguards lives in hazardous situations. Resilient, it withstands up to 60° temperatures, aiding in bore well rescues. Powered by a mobile power bank, it is very instrumental in emergencies, surveying fire origins or gas leaks, ensuring a safer, more informed response.



Advantages

- Human safety enhancement
- Resource efficiency
- Versatility



Applications

- Fire and rescue operations
- Chemical factory safety
- Bore well rescues



Key Features

- Real-time surveillance
- Adaptive design
- Mobile power source



Current Stage of Innovation

- Prototype development

SEMI AUTOMATED ROBOT



Innovation is necessary for societal safety and so is forging a resilient future through transformative advancements in tech-nology and solutions.






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 Prototype and Product design Engineer

The Story

In response to rising violence against women in various settings, Hareesh recognised the pressing need for a solution. Acknowledging the impact of technological advancements on safety, he is dedicated to addressing issues such as exploitation and harassment. By wanting to improve women's safety, he aims to contribute significantly to the overall development and well-being of the nation, fostering a secure environment for women in homes, public spaces, and workplaces.



About Innovation

The Self Security Bangle, resembling an ornament, activates at the wearer's discretion. When a person wearing it tilts her/his hand at a specific angle during an attack, the armband automatically activates, delivering an electric shock and sending the location of the person to pre-fed mobile numbers. This quick-response wearable aims to reduce attacks on women, offering an easy-to-wear and operating solution to enhance safety in daily life—an essential initiative to protect women worldwide. His innovative solution for this pressing issue earned him a gold medal at the International Innovation Fair in 2019.



Advantages

- Easy to operate
- Location alert
- Auto-activation



Applications

- Personal safety
- Making public spaces accessible



Key Features

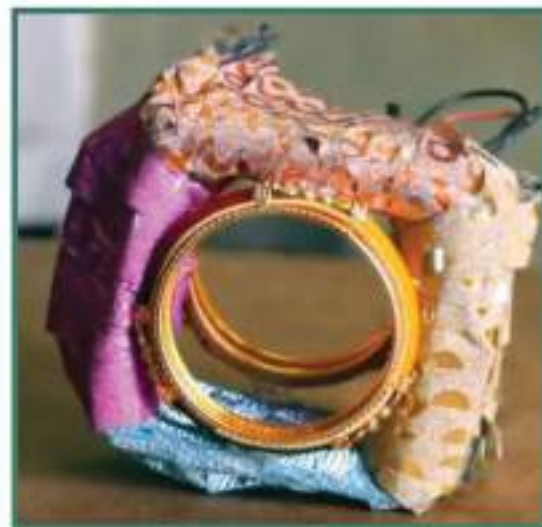
- Electric shock defense
- Location messaging
- Discreet design



Current Stage of Innovation

- Prototype Development

SELF SECURITY BANGLE



TGIC offers an amazing platform to explore valuable opportunities, especially for innovators that want to bring a positive change in society.



UV SANITATION BOX



PASARAGONDA RAMAKRISHNA

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 Executive Engineer

The Story

In the wake of the COVID-19 pandemic and the rise of remote work, Ramakrishna identified a critical issue: the contamination of essential documents. Prioritising workplace safety, he conceived an innovative solution to eliminate viruses and germs from documents, emphasising the broader importance of sanitation and cleanliness. This project underscores the imperative for maintaining a virus-free environment and highlights the significance of overall sanitation practices.

About Innovation

The UV Light Sanitation Box is a cost-effective solution for preventing the spread of germs, including COVID-19, through paper. The box, designed for files and papers, utilises UV light to kill various pathogens in just 20 seconds, promoting a safer environment. Notably affordable, each innovation, including testing tools, has proven beneficial for my workplace's profitability and contributed to low-cost sanitation initiatives, underscoring a commitment to simplicity in problem-solving.

Advantages

- Cost-Effective Sanitization
- Efficient Pathogen Elimination
- Versatility and Affordability

Applications

- Office Environments
- Educational Institutions
- Public Spaces

Key Features

- UV Light Technology
- Quick Operation
- User-friendly design

Current Stage of Innovation

- Market Ready

 In every idea lies the seed of innovation; explore, simplify, and turn solutions into progress. 



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-  Founder of Samskar electronics pvt Ltd.

The Story

In 2021, India saw a disturbing 16.2% surge in crimes against children, totaling 1,49,404 reported cases. To tackle this concerning trend, Ganesh stresses the urgent need to reshape societal attitudes, especially in the face of escalating sexual harassment and abuse. Through his innovation, he wishes to mould thought processes to curb issues threatening the safety of children in the current era.

About Innovation

The Samskar Toy, a proactive solution against sexual abuse, offering age-appropriate education to children. It shapes behaviours, intervenes early, and combines playfulness with learning. Its holistic approach reaches diverse settings, empowering the future generation to navigate relationships with self-awareness. By fostering community engagement, the toy aims for a transformative impact, contributing to a safer society. This remarkable tool has earned Ganesh national & international recognition, including various awards.

Advantages

- Proactive safeguarding
- Early intervention
- Fun and interactive learning

Applications

- Educational institutes
- NGOs and social organisations
- Public spaces - community building

Key Features


- Multi- language support
- Holistic educational tool
- Versatile and user- friendly

Current Stage of Innovation

- Market Ready

SAMSKAR TOY



 The knowledge acquired from education should assist in social innovation over and beyond just remaining manifested in degrees. 



KANUKUNTLA RAJASHEKHAR, BODDULA NAVANEETH KUMAR

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The Story

During their third year of Btech in Warangal, Navaneeth Kumar and Rajashekhar were appalled by the status of hygiene and unsanitary conditions triggered by overflowing dustbins in public spaces, despite bi-weekly municipality cleanings, raising health concerns. Realising the urgency, they committed to addressing this issue to ensure community well-being by implementing an efficient waste management mechanism. Especially, to highlight the unsanitary open dustbins problem in many cities posing health risks.

About Innovation

The Smart E-Dustbin, a user-friendly prototype utilises Arduino technology. Designed for domestic, industrial and municipal use, it aims to address overflowing bins and enhance environmental cleanliness. This innovative project incorporates two ultrasonic sensors, GSM technology for alerts, and an I2C LCD screen to display and share the bin's status to the authorities/point of contact using GPS technology, offering an efficient solution for municipalities, schools, & hospitals.

Advantages

- Efficient waste management
- Improved sanitary conditions

Applications

- Urban municipalities
- Healthcare facilities
- Smart cities initiative

Key Features

- Smart Monitoring System
- Alert Mechanism with GPS Integration

Current Stage of Innovation

- Prototype Development

SMART E-DUSTBIN



Innovate for a greener tomorrow: where technology and environment coalesce, shaping a sustainable future together.





DHEERAVATH ANITHA

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 Student

The Story

Anitha and her family from Devoji Naik Tanda lacked awareness about sanitary napkins, leading to the use of improvised materials like cloth, dried cow dung, animal skins, and bird feathers during periods. This resulted in irritation, infections, and even cases of cervical cancer. Despite discovering market-available sanitary napkins later, they were unsuitable due to chemical concerns. Motivated by this, Anitha ventured to create organic and natural sanitary pads.



About Innovation

Utilising the medicinal water weed "horse hoof" as a base material, The Sthree Raksha Pads aims for a 'waste to wealth' approach. It involves creating a paste from horse hoof leaf, neem, turmeric, and soaked waste paper, recycled using wire screens and cloth. Sabja and fenugreek seeds, combined with beeswax, enhance absorption. The use of pure cotton layers makes it eco-friendly and biodegradable, providing an affordable, quality solution for women's hygiene.



Advantages

- Eco- friendly and sustainable
- Cost- effective
- Improved health



Applications

- Menstrual hygiene management
- Educational initiatives
- Individual use



Key Features

- Recyclable composition
- Natural ingredients
- User customisation



Current Stage of Innovation

- Product Development

ORGANIC ZERO WASTE- STHREE RAKSHA PADS



Nurturing health & embracing sustainability for a better menstrual future is a strong need for empowering women.





KATTA NAGARJUNA

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 Teacher

The Story

While frequently travelling from Hyderabad to Khammam, Nagarjuna and his family realised the absence of roadside toilets posed a significant challenge. His cousin faced a situation with no provisions for the immediate change of sanitary napkins. This situation was particularly difficult for the ladies. The lack of accessible facilities along the way pushed Nagarjuna to innovate for better infrastructure and amenities for female travellers.



About Innovation

The Multipurpose Portable Room addresses diverse needs for women of all ages. It prioritises mobility and ease, securing recognition at SIC 2022 with a second prize and a Rs. 2.5 lakhs cash award. The innovation caters to breastfeeding needs, facilitates sanitary napkin exchange, and provides accessible toilet facilities anytime and anywhere. A versatile solution enhancing the convenience and well-being of females across age categories.



Advantages

- Mobility and convenience
- Enhanced well-being



Applications

- Public events and gatherings
- Long travels
- Workplace & educational institutions



Key Features

- Modular design
- Privacy and security
- Accessibility



Current Stage of Innovation

- Product Development

MULTIPURPOSE PORTABLE ROOM (UMBRELLA TOILET)



To fuel India's future, innovation in STEM and accessing support can only make ideas turn into workable realities.





S SHIVAKUMAR

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👤 Student

📖 The Story

Encountering challenges with public toilets at bus stands, Shivakumar envisioned an innovation to address the height disparity in urinal flushers and washbasins. Aimed at improving accessibility for both children and elders, this project targets public spaces like bus and railway stations, schools, hotels, and tourist spots. The innovation also tackles hygiene concerns related to traditional flushing mechanisms, promoting a more sanitary and inclusive solution to enhance public toilet facilities.



About Innovation

The Height Adjustable Urinal Flusher and Washbasin is ingeniously designed for dual use by adults and children. By integrating a foot-operated pedal mechanism, the urinal flusher adjusts from a child-friendly 40cm to an adult-friendly 75cm. The system also incorporates foot-operated water taps, ensuring a hygienic environment. This innovation curtails insanitation in public urinals, minimises maintenance costs, and promotes cleanliness, contributing to a healthier and eco-friendly solution for public spaces.



Advantages

- Inclusive setup
- Versatile and user-friendly
- Efficient resource use



Applications

- Public restrooms
- Educational institutions
- Tourist places



Key Features

- Adjustable height
- Foot-operated controls
- Universal wash basin



Current Stage of Innovation

- Product Development

HEIGHT ADJUSTABLE URINAL FLUSHER AND WASHBASIN



In every problem lies a solution. Embrace positivity, seek opportunities, and forge ahead with optimism.





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The Story

Acknowledging the vital need for cleanliness in society, Uzair Group addressed the challenges of risky and unhygienic toilet cleaning, particularly affecting those in hostel environments. Conventional methods posed health risks and physical strain, prompting them to innovate. Introducing an Automatic Toilet Cleaning Machine, a secure and efficient solution ensuring cleanliness without health concerns. This technology eliminates the hassles associated with traditional cleaning, promoting a hygienic environment for everyone.



About Innovation

The Automatic cleaning machine has a 2-3 metre extendable pipe linked to a rechargeable battery-powered, solar-supported motor. Customizable brushes, fixed to the motor, address diverse cleaning needs. The cleaner carries a water storage tank on their back, and an extendable pipe holds a detergent tank, both connected to switches. Two motor pumps enable simultaneous water and detergent release, ensuring efficient, hands-free, and hygienic surface cleaning.



Advantages

- Efficiency and Adaptability
- Eco-Friendly Operation



Applications

- Public Spaces Maintenance
- Industrial Use
- Toilet Cleaning



Key Features

- Hands-Free Operation
- Solar-Powered Rechargeable Battery
- Extendable Pipe with Customizable Brushes



Current Stage of Innovation

- Product Development

AUTOMATIC TOILET CLEANING MACHINE



Hygiene is health - a vital foundation for a thriving society & collective well-being.





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 Student

The Story

Recognizing the universal challenge of Urban waste management, Shreeya observed the shortcomings in current systems. Primarily dependent on manual labour, these systems lead to inefficiencies and sanitary issues with waste accumulation subject to ever growing population. Some bins overflow, while others stay scarcely filled. Conventional bins, requiring manual opening and monitoring. Shreeya aims to address these challenges by proposing a more effective waste management solution.



About Innovation

Shreeya's proposed municipal dustbin utilises IoT technology for efficient waste management. The smart dustbin employs a level-sensing ultrasonic sensor to measure garbage levels, distinguishing between dry and wet waste. Through cloud connectivity, it relays real-time data to the municipal centre, signalling for immediate cleaning. This innovation caters to the challenges faced by many urban areas lacking proper and timely waste management mechanisms.



Advantages

- Hygienic and Sanitary Environment
- Data driven decision making
- Urban waste management



Applications

- Urban areas
- Event venues
- Smart cities initiative



Key Features

- IoT Integration
- Level-Sensing Ultrasonic Sensor
- Cloud Connectivity



Current Stage of Innovation

- Product Development

GARBAGE BIN MONITORING & MAINTENANCE




Innovation must prioritise positive societal and environmental impact, fostering a healthier, balanced world for future generations.






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 Data Scientist

The Story

Encountering menstrual challenges during exams and important days, fueled Vishwaja's commitment to menstrual awareness. The difficulty in obtaining sanitary napkins inspired her to address the issue, resulting in the initiation of menstrual awareness campaigns. This journey led to the development of disposal machines, aiming to empower women and eliminate such challenges, creating a positive impact on menstrual hygiene and well-being.

About Innovation

Our incinerators and vending machines provide a solution for sanitary napkin disposal and accessibility in emergencies. Sensor-based & eco-friendly, these machines ensure safe and hygienic disposal for women in educational and working sectors, converting the napkin into sterile ash. Made from durable mild steel, they are customizable to fit washrooms, offering quality, safety, and convenience with features like double walls and hygiene management.

Advantages

- Safe and hygienic disposal
- Eco-friendly waste management
- Instant Access in emergencies

Applications

- Educational institutions
- Public toilets
- Workplace

Key Features



- Hygienic disposal process
- Sensor based technology
- Automatic Cutoff & Double wall safety

Current Stage of Innovation

- Already in business

INCINERATOR AND SANITARY VENDING MACHINE



 Breaking taboos around menstruation and fostering comfort, our innovation strives to make every woman's menstrual cycle a journey of dignity and empowerment. 

MEET OUR TEAM



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