

PRESIDENTIAL INNOVATION AWARD

2023 STARTUP CATALOGUE





Presidential Innovation Challenge & Award

Background

National Innovation Award (NIA)

The National Innovation Award program was started during 2016/2017 financial year and various innovators within the national innovation ecosystem have benefited from the program. Every year the Kenya National Innovation Agency ran the National Innovation Awards (NIA) to recognise and honour Kenya's leading innovators with remarkable achievements in their fields.

During his official remarks at KIW2022, the Head of State, Dr. William Samoei Ruto directed that the government would build more events, programs, and forums as well as other avenues to recognize innovations by young people, promote start-ups locally and internationally, strengthen research, commercialization of innovations and enhance the uptake of emerging technologies. As a result, the Ministry of Youth Affairs, Creative Economy, and Sports, through the Kenya National Innovation Agency (KeNIA) developed a framework for a Presidential innovation Challenge and Award.

Presidential Innovation Challenge and Award

This challenge runs from the ward level to national level, identifying innovations that have commercial value and potential. The program recognized and awarded the most progressive innovations that had potential for scalability.

The award was given to the most progressive innovation at the County level from the participating thematic areas. The overall winners at the national level were issued with the presidential innovation award by the Head of State during 2023 Jamhuri day celebrations. The final pitching competition to select the national winners was held at the Kenya Innovation Week 2023 Commonwealth Edition. The Kenya National Innovation Agency runs a range of accelerators to help grow the innovative enterprises through the Startup Funding program. All the winners have been invited to join the Presidential Accelerator Program.

TECHNOLOGY READINESS LEVELS (TRL)

Technology Readiness Levels (TRL) are a systematic metric that assesses the maturity and readiness of technologies or innovation during the development process. KeNIA has adopted the below levels to rank startups listed in this catalogue

IMPLEMENTATION LEVELS:

- 9** **Actual system proven through successful mission operations:** The technology has been tested in an operational environment, and the system has been proven through successful mission operations.
- 8** **System complete and qualified:** The technology has been tested in an operational environment, and the system has been qualified.
- 7** **System prototype demonstration in an operational environment:** The technology has been tested in an operational environment, and the system prototype has been demonstrated.
- 6** **Technology demonstrated in a relevant environment:** The technology has been tested in a relevant environment, and the advanced functionality has been demonstrated.
- 5** **Technology validated in a relevant environment:** The technology has been tested in a relevant environment, and the basic functionality has been demonstrated.
- 4** **Technology validated in a lab:** The technology has been tested in a simulated environment, and the basic functionality has been demonstrated.
- 3** **Experimental proof of concept:** The technology has been tested in a laboratory environment, and the basic functionality has been demonstrated.
- 2** **Technology concept formulated:** The technology concept and application have been formulated, and the research is being conducted to determine its feasibility.
- 1** **Basic principles observed:** The technology is still in the theoretical stage, and scientific research is being conducted to prove its feasibility.

RANKING OF STARTUPS BASED ON TECHNOLOGY READINESS LEVELS (TRL)

CARTEGORY	INNOVATION	ANNUAL REVENUE(\$)	TRL
Food Security and Agriculture	FARMER LIFELINE TECHNOLOGIES	18,000	9
	BioAfriq Energy Limited	50,000	9
	MarineCatch Africa Limited	NIL	1
	AgriTech Analytics	11,688	9
	Piquant spices	15,000	9
	Digitalfarmer	NIL	2
Climate Action and Green Energy	Eden Recyclers	NIL	3
	Bevis Africa	15,000	7
	BECOF CHEMICALS LIMITED	NIL	4
	Leafylife Innovation Hub	4,914	2
	Baflex Products enterprises	1000	4
	Greenium Energy	36,000	8
	TFT GRIT (Tech friends of Topiye)	3000	4

CARTEGORY	INNOVATION	ANNUAL REVENUE(\$)	TRL
Climate Action and Green Energy	Sawdust Building Block	665	7
	Eco-Glass Innovations	NIL	4
	M-taka	43,744	8
	Fibertext Green Paper limited	4700	8
	PANDA LOGO GREEN	20,000	1
	Go Green by Blazing Barrys Youth Coffee	10,000	3
Digital Transformation	Wafugaji Digital	60,188.09	2
	Signvrse	4,000	7
	WymBee	230	2
	CarSS TECHNOLOGIES	93167.70	4
	Ruphids Autotech Solutions	5,100	7
	Finda	3,120	2
	Agrilla Enterprises	3,158.74	6
	JAKY	350,000	1
	Rhon	30,000	2

CARTEGORY	INNOVATION	ANNUAL REVENUE(\$)	TRL
Health Care	Akili Sawa	NIL	2
	Adolescent and young people mental health champions	758	1



Bioafriq Energy Limited

Food Security and Agriculture

✉ jnyamai@bioafriqenergy.com

BioAfriq Energy, a Kenyan Social Enterprise, pioneers hybrid solar dehydrators, utilizing solar, wind, and biomass energy. This innovative technology ensures year-round dehydration of farm products, overcoming challenges faced by traditional solar dryers in Kenya's varied weather. By minimizing post-harvest losses, BioAfriq promotes sustainable agriculture and enhances livelihoods.

Signvrse

Digital Transformation

✉ ellysavatia@gmail.com



Situated in Kenya and established by Elly Savatia, Signvrse utilizes AI (Computer Vision), NLP and automated 3D technology to interpret text and speech, creating lifelike sign language avatars with real-time precision. Unlike conventional methods, Signvrse focuses on capturing intricate facial expressions, providing a more immersive and inclusive communication experience for Deaf and hard-of-hearing individuals.

Agritech Analytics

Food Security and Agriculture

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The company developed a technology that combines AI-powered satellite data analytics and data from an IoT solar-powered crop and soil sensor. This solution performs soil health analysis to get precise farm inputs, and scans crop leaves and stems to detect crop pests and diseases.

Piquant Spices

Food Security and Agriculture

✉ stephenmachua@gmail.com



Piquant Spices is a manufacturing company doing value addition of herbs and spices. Their products, including Tea Masala and Pilau Masala, are distributed in Kenya, Tanzania, Somalia, and Uganda. Piquant Spices advocates for the spice value chain, promoting it as a lucrative alternative crop for Kenya's arid and semi-arid regions.

Farmer Lifeline Technologies

Food Security and Agriculture

✉ esther19kimani@gmail.com



Timely detection of crop pests and diseases using AI enabled cameras mounted on farms and leased at \$3 per month. The devices also recommend affordable and locally available farm chemicals and fertilizers for farmers to apply and the exact quantities for increased yields.



Ruphids Autotech Solutions

Digital Transformation

✉ philipnganda@gmail.com

Locally makes easy to use biometric Attendance machines that sends sms notifications to the parent whenever their children log-in/out of the school premises, sends other general sms to the parents, and keeps the attendance reports online/offline.



Bevis Africa

Climate Action & Green Energy

✉ info@bevisafrika.com

Our cutting-edge technology aids small-scale Carbon sequester to tap into the voluntary carbon market. The Bevis Africa Carbon Management System 1.0, utilizing Web3+Blockchain, provides a transparent solution for soil and vegetation carbon projects. It simplifies the carbon credit processes, allowing individuals and organizations to actively contribute to climate action and adopt sustainable practices.

M-taka

Climate Action & Green Energy

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M-taka is a pioneering waste management and recycling venture that creates green dignified jobs while championing sustainable waste practices. Harnessing technology, AI and social incentives, our platform facilitates the collection, aggregation and value addition of recyclable materials through the M-taka app or USSD codes. We offer rewards for recycling efforts, run material recovery facilities and empower waste workers for a circular economy.



Becof Chemicals Limited

Climate Action & Green Energy

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We are manufacturing alternative bleaching chemicals from sugarcane wastes for refining crude palm oil in the manufacturing of cooking oil, fats, soaps, detergents, and cosmetics.



Bafix Products Enterprises

Climate Action & Green Energy

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We are carrying out extraction of natural fibres from the banana pseudo-stems. The extracted fibres are used in making of braids, wigs, weaves all used in fashion industries. The fibres are also used in making handicrafts and fibres used in making cushion and pillows in the furniture industries.



WymBee Technologies

Digital Transformation

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WymBee leverages business community infrastructure to provide deadstock liquidation & re-allocation services to African MSMEs



Greenium Energy

Climate Action & Green Energy

✉ kevotye50@gmail.com

We make briquettes from water hyacinth from Lake Victoria. One ton of briquettes produced saves more than 80 mature trees hence promotion of increased forest cover. We reduce greenhouse gas emissions by 50 percent every time a client uses our briquettes.



Fibertext Green Paper Limited



■ Climate Action & Green Energy

✉ sikulurose98@gmail.com

Established in 2022, Fibertext Green Paper produces eco-friendly paper and sustainable packaging using banana fiber. Committed to local sourcing, it fosters circular economy principles, supporting farmers and minimizing carbon emissions.

Rhon

■ Digital Transformation

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Rhon is a platform that brings together service providers and informal traders allowing sustainable consumption of services via a pay as you go model allowing informal traders to track their consumption patterns all on one platform

Sawdust Building Blocks

■ Climate Action & Green Energy

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Sawdust building block innovation offers a groundbreaking solution for sustainable construction, addressing the pressing need for eco-friendly and cost-effective building materials. By utilizing sawdust, a waste product from wood.

Agrilla Enterprises

■ Digital Transformation

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Agrilla Enterprises is a socio-economic venture focused on boosting income in arid and semi-arid regions. Our ranch in Machakos sells galla and dairy goats, and we're developing a live animal multivendor e-commerce platform to provide market linkages for farmers across Kenya.

Finda

■ Digital Transformation

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Finda is a technology-driven startup based in Kisii, Kenya that operates an innovative, digital business directory aimed at revolutionizing business interactions. Finda seamlessly connects users to trustworthy, sustainable and reliable products and services fostering efficiency, promoting digitization and enhancing economic growth across diverse industries.

EDEN RECYCLERS

■ Climate Action & Green Energy

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Eden Recyclers operates in the extensive realm of waste management, currently specializing in sustainable recycling of discarded papers into eco-friendly and cost-effective secondary products such as black paint, shoe polish, and ink carbon "graphite" sticks usable in writing pencils. Besides their eco-friendliness and cost effectiveness, these products have demonstrated superior qualities such as higher opacity and longer shelf-life compared to their counterparts in the market..



Leafylife Innovation Hub

Climate Action & Green Energy

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LeafyLife created an energy-efficient diaper recycling method, utilizing organic chemicals to break down diapers into constituents. This pioneering process minimizes energy and water usage, ensuring economic viability. The use of benign chemicals guarantees non-hazardous waste and produces useful items like tiles, table tops, and fuel. e.g tiles and table tops, and fuel



Eco-Glass Innovations

Climate Action & Green Energy

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Eco-Glass innovations we are glass waste recycling limited company ,where we transform glass waste into building material such as mable top,ventilation,interlocking blocks, and cabros.we reduce glass waste to zero waste to sustainable products

Jakey

Digital Transformation

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An intellectual property marketplace and management platform

Tech Friends Of Topiye (TFT GRIT) Smart Climate Stool

Climate Action & Green Energy

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TFT GRIT produce a Smart Climate Stool that fight deforestation that contributes to climate change. It is intended to stop over 500,000 men in Turkana, Pokot Marakwet karimojong Teso Toposa and Ngijiyi that have cultural attachment to wooden ekicholong from cutting down trees by providing them with alternative Smart Climate Stool (metallic ekicholong).

Adolescent and Young People Mental Health Champions

Healthcare

✉ kemmanwel@gmail.com

AYP mental health champions embrace the Youth for Youth initiative, addressing mental health and reproductive health challenges in Kenyan adolescents. Focused on affordability and accessibility, the program responds to escalating crises like suicide, depression, substance abuse, and HIV/STIs.

Digitalfarmer

Food Security and Agriculture

✉ ndaba@digitalfarmer.africa

Digitalfarmer serves as a platform facilitating both B2B and B2C interactions in the agricultural supply chain. We connect farmers' supply with customer demand, offering farmers access to necessary inputs and services for improved produce quality, and customers the convenience of ordering fresh, affordable farm produce anytime, anywhere.

CARSS HOME TECHNOLOGIES



■ Digital Transformation

✉ carsshometechnologies@gmail.com

This is a phone operated cut off which has added features such as door locking mechanism and vehicle starting

Akili Sawa

■ Healthcare

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akili sawa

Akili sawa partners with top care providers to offer preventative and curative approaches to mental wellness for work forces. This is done through an evidence based, scientific and AI driven platform.

GO GREEN BY BLAZING BARRYS YOUTH COFFEE



■ Climate Action & Green Energy

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Seeks to address the pressing challenges of climate change in the coffee industry through practicing sustainable agroforestry and promote carbon sequestration by planting trees for every coffee package sold, we aim to mitigate the effects of climate change while fostering sustainable coffee farming practices for future generations and access to the carbon credits market for the Large, Medium & smallholder farmers.

MarineCatch Africa

■ Food Security and Agriculture

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MarineCatch Africa revolutionizes the African seafood industry with advanced technology. Our IoT and blockchain-powered solution guarantee end-to-end traceability and transparency. Connecting small-scale fishermen, processors, and consumers, the platform fosters sustainable practices, empowers coastal communities, and aligns with global goals for responsible seafood consumption.

Wafugaji digital

■ Digital Transformation

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Our E-commerce platform revolutionizes livestock trade, offering efficiency and security to even remote northern Kenyan areas. The user-friendly interface enables sellers to provide detailed livestock listings, including breed and health. Buyers can easily browse, compare, and conduct secure transactions directly on the platform.

PANDALOGO GREEN

■ Climate Action & Green Energy

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PANDALOGO GREEN is an initiative that we started in 2022 where by we use Art to reverse the effects of climate change through planting of tree in different parts of the county in exchange of photography, Tattoos and printing of T-shirt after client buy a tree and plant it instantly.

GLOSSARY

Technology in use	Machinery and equipment developed from the application of scientific knowledge.
Annual Revenue	Yearly income generated by the startup.
Market Opportunity	Potential for business growth and success in the target market.
Technology Readiness Levels (TRL)	Measurement system used to assess the maturity level of a particular technology.
Internet Of Things (IoT)	Network of physical objects embedded with sensors and software for the purpose of connecting and exchanging data with other devices and systems over the internet.
Artificial Intelligence (AI)	Simulation of human intelligence processes by machines, especially computer systems
Natural Processing Language (NLP)	Branch of artificial intelligence (AI) that enables computers to comprehend, generate, and manipulate human language
Cloud Computing	Using a network of remote servers hosted on the internet to store, manage, and process data
Virtual Reality (VR)	Computer-generated simulation of a <u>three-dimensional</u> image or environment that can be interacted with in a seemingly real way.
Machine Learning	Use and development of computer systems that are able to learn and adapt without following explicit instructions
Voluntary Carbon Market (VCM)	Platform where private actors voluntarily buy and sell carbon credits that represent certified removals or reductions of greenhouse gases (GHGs) in the atmosphere.
Mechanical Decortication	Process of separating the bast from the inner core of fibre plants using a disc refiner.
Carbon Sequestration	Process of capturing and storing atmospheric carbon dioxide
Software as a Service (SaaS)	Method of software delivery and licensing in which software is accessed online via a subscription, rather than bought and installed on individual computers.



Bioafriq Energy Limited

Food Security and Agriculture

Makueni County

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www.bioafriqenergy.com

Team Details

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Product Description

BioAfriq Energy, a Kenyan Social Enterprise, pioneers hybrid solar dehydrators, utilizing solar, wind, and biomass energy. This innovative technology ensures year-round dehydration of farm products, overcoming challenges faced by traditional solar dryers in Kenya's varied weather. By minimizing post-harvest losses, BioAfriq promotes sustainable agriculture and enhances livelihoods.

Technology in Use

Hybrid solar dehydrators

Number of Customers as at December 2023

3575 farmers

Annual Revenue as at December 2023 (USD)

50,000

Competitors

- Grekkon Limited
- Aqua Hub Kenya Limited
- Dehytray
- Craftsman

Market Opportunity

We target farmers and agricultural processors in different parts of the country. So far the value of our target market with reference to post harvest losses that could be salvaged through dehydration is 49 Million USD

Funding Required as at December 2023 (USD)

37,000

Signvrse



 Digital Transformation

 **Kajiado County**

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 <https://signvrse.com/>

Team Details

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Branice Kazira

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Product Description

Situated in Kenya and established by Elly Savatia, Signvrse utilizes AI (Computer Vision) , NLP and automated 3D technology to interpret text and speech, creating lifelike sign language avatars with real-time precision. Unlike conventional methods, Signvrse focuses on capturing intricate facial expressions, providing a more immersive and inclusive communication experience for Deaf and hard-of-hearing individuals.

Technology in Use

- AI (Machine Learning Algorithms, Natural Language Processing, Computer Vision)
- Automated 3D Avatar Technology
- Metaverse Platforms
- VR (Virtual Reality)

Annual Revenue as at December 2023 (USD)

Pre - Revenue

Number of Customers as at December 2023

2000

Competitors

- Hand Talk (Brazil & USA)
- SignAble Communications (India)
- Signapse (Europe)
- Sign IO (Kenya)
- Assist All (Kenya)

Market Opportunity

1.5 billion people globally with hearing loss
430 million with disabling hearing loss.

Funding Required as at December 2023 (USD)

150,000

AgriTech Analytics Ltd



 Food Security and Agriculture

 Kiambu County

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 www.agritech.co.ke

Team Details

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Douglas Mwangi

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Product Description

The company developed a technology that combines AI-powered satellite data analytics and data from an IoT solar-powered crop and soil sensor. This solution performs soil health analysis to get precise farm inputs, and scans crop leaves and stems to detect crop pests and diseases.

Technology in Use

- IoT
- cloud computing
- AI

Annual Revenue as at December 2023 (USD)

11,688

Number of Customers as at December 2023

4978

Competitors

- Traditional farming practices
- Crop Nutrition Laboratory Services Ltd
- AgroCares Kenya

Market Opportunity

\$1.33m

Funding Required as at December 2023 (USD)

\$250,000



PREMIUM QUALITY

PIQUANT SPICES

 **Food Security and Agriculture**

 **Murang'a County**

 piquant.co.ke

 stephenmachua@gmail.com

Team Details

Stephen Machua

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Sylvester Kamau

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Product Description

Piquant Spices is a manufacturing company doing value addition of herbs and spices for local and exports markets. Piquant Spices current products i.e. Tea Masala, Pilau Masala and Mixed Spices are retailing in Kenya, Tanzania, Somalia and Uganda. The company is championing the spice value chain as an alternative high value crop for arid and semi-arid areas of Kenya.

Technology in Use

- Critical control point management system
- IoT

Number of Customers as at December 2023

3500 in Kenya, Tanzania, Somalia and Uganda

Annual Revenue as at December 2023 (USD)

15,000

Competitors

- Tropical Heat
- Royco Spices (Unilever)
- Nature's Own

Market Opportunity

16 Million

Funding Required as at December 2023 (USD)

500,000



Farmer Lifeline Technologies

 **Food Security and Agriculture**

 **Nairobi County**

 esther19kimani@gmail.com

 www.farmerlifeline.co.ke

Team Details

Esther Wanjiru Kimani

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Product Description

Timely detection of crop pests and diseases using AI enabled cameras mounted on farms and leased at \$3 per month. The devices also recommend affordable and locally available farm chemicals and fertilizers for farmers to apply and the exact quantities for increased yields.

Technology in Use

- Artificial Intelligence
- Machine Learning
- Data Analytics

Annual Revenue as at December 2023 (USD)

18000

Number of Customers as at December 2023

5,000

Competitors

- 1.Traditional methods of manually scouting farms for pests and diseases
- 2.Mobile Applications that scan for pests and diseases but are not permanently mounted on farms unlike our devices. They also require a farmer to own a smart whereas our devices can communicate with farmers via SMS
- 3.Technologies such as drones which charge upto 100 dollars per hour to fly over farms and proven expensive for the smallholder farmers

Market Opportunity

- 1.In Kenya we have 7.8 million smallholder farmers whose estimated value is 7 million dollars
2. In East Africa we are targeting 13.5 million farmers with a market value of 15 million dollars
3. We are targeting 25 million smallholder farmers in Africa whose market opportunity is 33 million dollars

Funding Required as at December 2023 (USD)

75000


Ruphids Autotech Solutions

 Digital Transformation



 Kitui County

 philipnganda@gmail.com

 www.ruphidstech.co.ke

Team Details

Philip Nganda (CEO)

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Product Description

Locally makes easy to use biometric Attendance machines that sends sms notifications to the parent whenever their children log-in/out of the school premises, sends other general sms to the parents, and keeps the attendance reports online/offline.

Technology in Use

- Hardware Programming(C/C++)
- Web Applications (LAMP Stack, APIs)

Number of Customers as at December 2023

40

Annual Revenue as at December 2023 (USD)

5,100

Competitors

- Zk-teko
- Hik-vision

Market Opportunity

10,000 schools * \$255(profit)
=\$2,550,000

Funding Required as at December 2023 (USD)

63174.75

Bevis Africa



BEVIS AFRICA
LIMITED

 Climate Action & Green Energy

 Lamu County

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Team Details

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Davies Avarenya - Co - Founder

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Product Description

Our cutting-edge technology aids small-scale Carbon sequester to tap into the voluntary carbon market. The Bevis Africa Carbon Management System 1.0, utilizing Web3+Blockchain, provides a transparent solution for soil and vegetation carbon projects. It simplifies the carbon credit processes, allowing individuals and organizations to actively contribute to climate action and adopt sustainable practices.

Technology in Use

- MERN Stack, Web 3
- Blockchain

Number of Customers as at December 2023

686

Annual Revenue as at December 2023 (USD)

15,000

Competitors

- Non-Governmental Organizations (NGOs).
- Environmental Conservation Groups.
- Carbon Market Platforms.
- Government Initiatives.

Market Opportunity

Market segment: The Voluntary Carbon Market.

Value: Kenya has the potential to sequester, reduce, or avoid ~30 Mt CO₂e/yr (metric tons of carbon dioxide equivalent per year); mobilize up to \$600 million annually from regulatory compliance and voluntary carbon market (VCM) projects by 2030 using an average price of \$20 per ton. From 2016 to 2021, Kenya issued ~26 MtCO₂e of carbon offsets, more than any other African country and approximately 20 per cent of total African credits.

Funding Required as at December 2023 (USD)

45,000






M-taka

 **Climate Action & Green Energy**

 **Kisumu County**

 www.m-taka.co.ke

 info@m-taka.co.ke

Team Details

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Primafacie Mutua

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Product Description

M-taka is a pioneering waste management and recycling venture that creates green dignified jobs while championing sustainable waste practices. Harnessing technology, AI and social incentives, our platform facilitates the collection, aggregation and value addition of recyclable materials through the M-taka app or USSD codes. We offer rewards for recycling efforts, run material recovery facilities and empower waste workers for a circular economy.

Technology in Use

- Mobile Application
- AI and Data analytics
- USSD code

Number of Customers as at December 2023

2,601

Annual Revenue as at December 2023 (USD)

43,744

Competitors

- Traditional Waste Collection Companies
- Kibuye Recyclers
- Kibos Recyclers

Market Opportunity

M-taka operates in a growing market for sustainable waste management, with a global market size of USD 1,293.70 billion in 2022 and a projected 5.4% CAGR (Compound Annual Growth Rate) from 2023 to 2030. In Kenya, the waste management market is valued at \$100M, and M-taka holds a substantial 10% market share in the Western Region, equivalent to \$25M.

Funding Required as at December 2023 (USD)

300,000



Becof Chemicals Limited

 **Climate Action & Green Energy**

 **Kilifi County**

 **becofchemicalsltd@gmail.com**

Team Details

Mr. Benjamin Mweri Baya

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Product Description

We are manufacturing alternative bleaching chemicals from sugarcane wastes for refining crude palm oil in the manufacturing of cooking oil, fats, soaps, detergents, and cosmetics.

Technology in Use

- Sustainable Manufacturing

Number of Customers as at December 2023

2

Annual Revenue as at December 2023 (USD)

Nil

Competitors

- Ashapura Perfoclay Limited (APL) located in India.
- Taiko Group of Companies located in Malaysia.
- AMC Adsorbents Limited located in United Kingdom
- PT. Tunasinti Bhaktimakmur located in Indonesia

Market Opportunity

Our target market are Crude palm oil Refineries in Kenya; KAPA Oil Refineris Ltd, Menengai Oil Refineries, Giloil Company Ltd, Pwani Oil Products, Salwa Kenya Ltd, Bidco Africa Ltd, Golden Africa Kenya Ltd, etc.

Market Value: The global bleaching clay market is projected to reach 1.7 Billion USD by 2031, growing at a CAGR (Compound Annual Growth Rate) of 6.9% from 2022 to 2031.

Funding Required as at December 2023 (USD)

1.5 Million



Baflex Products Enterprises

Climate Action & Green Energy

Meru County

www.youthsfortheboychild.org

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Team Details

Kenton Mutethia Muthaura –CEO

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Denis Kithinji –Operations,R&D Manager

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Product Description

We are carrying out extraction of natural fibres from the banana pseudo-stems.

The extracted fibres are used in making of braids,wigs,weaves all used in fashion industries.The fibres are also used in making handcrafts and fibres used in making cushion and pillows in the furniture industries.

Technology in Use

- Mechanical decortication method

Number of Customers as at December 2023

15

Annual Revenue as at December 2023 (USD)

1,000

Competitors

- Darling Hair products-Synthetic-Made

Market Opportunity

Our focus is on the fashion industry, producing braids, wigs, and weaves for women. Additionally, we target the furniture sector, utilizing natural fibers in crafting pillows and cushions, as well as cottage industries creating handcrafted items like mats. The versatile fibers also find application in textile industries for clothing production. The approximated value for the target market is USD 100,000

Funding Required as at December 2023 (USD)

100,000



WymBee Technologies

🏢 Digital Transformation

📍 Kakamega County

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Team Details

Jack Oloo

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Daniel Tatara

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Product Description

WymBee leverages business community infrastructure to provide deadstock liquidation & re-allocation services to African MSMEs (Micro, Small and Medium Enterprises).

Technology in Use

- Mobile, Web, & Bot Applications
- Cloud Computing
- Messaging, Mapping, & AI APIs
- Data Analytics

Number of Customers as at December 2023

374

Annual Revenue as at December 2023 (USD)

230

Competitors

- Auctioneers
- WhatsApp Marketplace
- Telegram Marketplace, Jiji

Market Opportunity

7 Billion (Kenya)

1 Trillion (Africa)

Funding Required as at December 2023 (USD)


50,000



Greenium Energy

 **Climate Action & Green Energy**

 **Siaya County**

 www.greeniumenergy.co.ke

 kevotye50@gmail.com

Team Details

Kevine Otieno – Chief Executive Officer

kevotye50@gmail.com

Merceline Bakari – Chief Finance Office

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Product Description

We make briquettes from water hyacinth from Lake Victoria. One ton of briquettes produced saves more than 80 mature trees hence promotion of increased forest cover. We reduce greenhouse gas emissions by 50 percent every time a client uses our briquettes.

Technology in Use

- We use water hyacinth to make briquettes.

Number of Customers as at December 2023

2,500

Annual Revenue as at December 2023 (USD)

36,000

Competitors

- Wood charcoal and firewood vendors.

Market Opportunity

75,000,000

Funding Required as at December 2023 (USD)

40,000



Fibertext Green Paper Limited

Climate Action & Green Energy

Bungoma County

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Team Details

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Product Description

Established in 2022, Fibertext Green Paper produces eco-friendly paper and sustainable packaging using banana fiber. Committed to local sourcing, it fosters circular economy principles, supporting farmers and minimizing carbon emissions.

Technology in Use

- Modified traditional paper production.

Number of Customers as at December 2023

300

Annual Revenue as at December 2023 (USD)

4700

Competitors

- Dune packaging
- Swiss packaging

Market Opportunity

6,000,000

Funding Required as at December 2023 (USD)

50,000



Rhon

🏢 Digital Transformation

📍 Kericho County

🌐 rhon.co.ke

✉ kdouglasrono@gmail.com

Team Details

Douglas Rono

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Product Description

Rhon is a platform that brings together service providers and informal traders allowing sustainable consumption of services via a pay as you go model allowing informal traders to track their consumption patterns all on one platform

Technology in Use

- Node js.
- javascript.
- react js.

Number of Customers as at December 2023

500

Annual Revenue as at December 2023 (USD)

30,000

Competitors

- Lipa later.
- Flexpay.
- Aspira.

Market Opportunity

1 Billion

Funding Required as at December 2023 (USD)

50,000



Sawdust Building Blocks

Climate Action & Green Energy

Busia County

<https://www.linkedin.com/company/jayit-creations/>

petrachieng@gmail.com

Team Details

Peter Achieng

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Product Description

Sawdust building block innovation offers a groundbreaking solution for sustainable construction, addressing the pressing need for eco-friendly and cost-effective building materials. By utilizing sawdust, a waste product from wood.

Technology in Use

- Biodegradable binder

Number of Customers as at December 2023

2

Annual Revenue as at December 2023 (USD)

665

Competitors

- Making Block
- Bush Stones
- Wareng Limited
- Chepeo Limited
- Machine Cut Blocks

Market Opportunity

10,000

Funding Required as at December 2023 (USD)

10,000



Agrilla Enterprises

🏠 Digital Transformation

📍 Machakos County

🌐 <https://agrilla.co.ke>

✉ rhylkiio@gmail.com

Team Details

Rhyl Cruz Kiio

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David Engoke

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Product Description

Agrilla Enterprises is a socio-economic venture focused on boosting income in arid and semi-arid regions. Our ranch in Machakos sells galla and dairy goats, and we're developing a live animal multivendor e-commerce platform to provide market linkages for farmers across Kenya.

Technology in Use

- Mobile and Web applications

Number of Customers as at December 2023

50

Annual Revenue as at December 2023 (USD)

3158.74

Competitors

- Middle men in open air markets
- Vaccinated Ranches
- Facebook marketplaces
- Cow soko

Market Opportunity

Middle east live animal livestock export market -Total
Addressable Market - 20 Million USD

Funding Required as at December 2023 (USD)


12634.95




Finda

 **Digital Transformation**

 **Kisii County**

 <https://home.finda.co.ke>

 amonyonka97@gmail.com

Team Details

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Cyrus Keombe

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Product Description

Finda is a technology-driven startup based in Kisii, Kenya that operates an innovative, digital business directory aimed at revolutionizing business interactions. Finda seamlessly connects users to trustworthy, sustainable and reliable products and services fostering efficiency, promoting digitization and enhancing economic growth across diverse industries.

Technology in Use

- Artificial Intelligence
- Machine Learning
- Web and mobile apps

Number of Customers as at December 2023

80 Per Month

Annual Revenue as at December 2023 (USD)

3,120

Competitors

- None

Market Opportunity

From local to global, targeting a \$689.8 Billion Market Opportunity – The global digital marketing industry is valued at US\$ 330 Billion, with projections to reach US\$ 689.8 Billion by 2028, presenting a significant market opportunity for Finda's scalable platform.

Funding Required as at December 2023 (USD)

1.8 Million



EDEN RECYCLERS

Climate Action & Green Energy

Tharaka-Nithi County

www.edenrecyclers.com

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Team Details

ABRAHAM KARANI NYAGA

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MARTIN KINYUA

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Product Description

Eden Recyclers operates in the extensive realm of waste management, currently specializing in sustainable recycling of discarded papers into eco-friendly and cost-effective secondary products such as black paint, shoe polish, and ink carbon "graphite" sticks usable in writing pencils. Besides their eco-friendliness and cost effectiveness, these products have demonstrated superior qualities such as higher opacity and longer shelf-life compared to their counterparts in the market..

Technology in Use

- Controlled Pyrolysis

Number of Customers as at December 2023

100

Annual Revenue as at December 2023 (USD)

Nil

Competitors

- East African Paper Mills
- Chandaria Industries Ltd.
- Crown, Basco paints , Kansai Plascon Paints
- Kiwi, Ric, Menengai, Bic, MOMO Pencils

Market Opportunity

8% Primary School Students: \$200K/Year

4% Secondary School Students: \$140K/Year

2% University Students & Public: \$320K/Year

Funding Required as at December 2023 (USD)

114,890



LeafyLife Innovation Hub

Climate Action & Green Energy

Wajir County

<https://nowaste.whatdesigncando.com/projects/leafylife/>

johnsonmboya2@gmail.com

Team Details

Johnson Mboya

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Peter Gachanja

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Product Description

LeafyLife created an energy-efficient diaper recycling method, utilizing organic chemicals to break down diapers into constituents. This pioneering process minimizes energy and water usage, ensuring economic viability. The use of benign chemicals guarantees non-hazardous waste and produces useful items like tiles, table tops, and fuel. e.g tiles and table tops, and fuel

Technology in Use

Not Provided

Number of Customers as at December 2023

21600 customers annually

Annual Revenue as at December 2023 (USD)

4914

Competitors

Not Provided

Market Opportunity

Our products include construction material made from the plastic e.g tiles and table tops, and fuel that burns cleanly without carbon monoxide, smoke or soot. Furthermore, our fuel produces 76% less carbon dioxide than conventional fossil fuels. Analysis by Climate Impact Forecast show that using our fuel for one year cuts carbon emissions for each household by 152 tons.

Funding Required as at December 2023 (USD)

17,694.64



Eco-Glass Innovations

 **Climate Action & Green Energy**

 **Nakuru County**

 ecoglassinnovation@gmail.com

Team Details

Peter kinyua

Pkjabu6@gmail.com

Product Description

Eco-Glass innovations is a glass waste recycling limited company ,where we transform glass waste into building material such as mable top,ventilation,interlocking blocks, and cabros. We reduce glass waste to zero waste to sustainable products.

Technology in Use

- Glass waste neutralizer machine.

Number of Customers as at December 2023

- Not Provided

Annual Revenue as at December 2023 (USD)

- Nil

Competitors

- Lilablle concrete
- Kagoto concert
- And may more
- Granite importer

Market Opportunity

We aim to target local and international

Funding Required as at December 2023 (USD)

36800



jakey

JAKEY

 **Digital Transformation**

 **Homabay County**

 gilliannyangaga95@gmail.com

Team Details

Gillian Nyangaga

gilliannyangaga95@gmail.com

Product Description

An intellectual property marketplace and management platform

Technology in Use

- node.js
- react.js
- ssl
- mongoDB

Number of Customers as at December 2023

- Nil.

Annual Revenue as at December 2023 (USD)

350,000

Competitors

- Facebook
- X
- Tiktok
- Instagram
- YouTube
- Snapchat
- Netflix

Market Opportunity

Total Available market stands at \$ 2.7 billion, (globally)

Funding Required as at December 2023 (USD)

500,000




Tech Friends Of Topiye (TFT GRIT) Smart Climate Stool

 **Climate Action & Green Energy**

 **Turkana County**

 **WEBSITE**

 lorooemmanuel@gmail.com

Team Details

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Neriahekidor Echoto

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Product Description

TFT GRIT produce a Smart Climate Stool that fight deforestation that contributes to climate change. It is intended to stop over 500,000 men in Turkana, Pokot Marakwet karimojong Teso Toposa and Ngijiyi that have cultural attachment to wooden ekicholong from cutting down trees by providing them with alternative Smart Climate Stool (metallic ekicholong).

Technology in Use

- Laser Welding

Number of Customers as at December 2023

8,000

Annual Revenue as at December 2023 (USD)

3,000

Competitors

- Rapho welders
- Technical engineering Ltd
- General engineering works

Market Opportunity


200,000 USD

Funding Required as at December 2023 (USD)

120,000



Adolescent and young people mental health champions

 **Healthcare**
 **Bomet County**
 kemmanwel@gmail.com

Team Details

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Peter sigei kiprotich

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Product Description

AYP mental health champions embrace the Youth for Youth initiative, addressing mental health and reproductive health challenges in Kenyan adolescents. Focused on affordability and accessibility, the program responds to escalating crises like suicide, depression, substance abuse, and HIV/STIs.

Technology in Use

- Social Media

Number of Customers as at December 2023

5,000

Annual Revenue as at December 2023 (USD)

NIL

Competitors

- Akili Sawa

Market Opportunity

631 USD per month

Funding Required as at December 2023 (USD)

12,635



DIGITAL FARMER

Food Security and Agriculture

Nyeri County

<https://www.digitalfarmer.africa/>

ndaba@digitalfarmer.africa

Team Details

Victor Ndaba

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Peter Kenneth Miringu

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Product Description

Digitalfarmer serves as a platform facilitating both B2B and B2C interactions in the agricultural supply chain. We connect farmers' supply with customer demand, offering farmers access to necessary inputs and services for improved produce quality, and customers the convenience of ordering fresh, affordable farm produce anytime, anywhere.

Technology in Use

- SaaS
- Machine Learning

Number of Customers as at December 2023

3

Annual Revenue as at December 2023 (USD)

Nil

Competitors

- Twiga foods
- GrowAgric
- Kwikbasket / Kyosk Fresh

Market Opportunity

\$2M GMV targeted in first quarter of operation from sale of broilers from farmers in Nyeri county directly to consumers

Funding Required as at December 2023 (USD)

50,000



CARSS HOME TECHNOLOGIES

🏢 Digital Transformation

📍 Nyandarua County

🌐 carsshometechnologies.business.site

✉ carsshometechnologies@gmail.com

Team Details

Peter Maina

mburu18p@gmail.com

Product Description

This is a phone operated cutoff with added features of housing automation, vehicle starting and monitoring door locking mechanism.

Technology in Use

- Mobile App
- IoT

Number of Customers as at December 2023

8

Annual Revenue as at December 2023 (USD)

93167.70

Competitors

- Imported car alarms from China

Market Opportunity

15,360.98 USD

Funding Required as at December 2023 (USD)

93167.70

AKILI SAWA

a)kili sawa



Healthcare



Embu County



<https://akilisawa.com/>



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Team Details

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Dr. Irene Njogu

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Product Description

Akili sawa partners with top care providers to offer preventative and curative approaches to mental wellness for work forces. This is done through an evidence based, scientific and AI driven platform.

Technology in Use

- AI
- Natural Language Processing (NLP)
- Predictive Analytics
- APIs and EMR/EHR Integrations
- Machine Learning (ML),

Number of Customers as at December 2023

320

Annual Revenue as at December 2023 (USD)

Nil

Competitors

- Shamiri Institute:
- Health X

Market Opportunity

1.9 Million

Funding Required as at December 2023 (USD)

50000



GO GREEN BY BLAZING BARRYS YOUTH COFFEE

Climate Action & Green Energy

Trans Nzoia County

<https://www.instagram.com/blazingbarryscoffee/>

mkvictor2@gmail.com

Team Details

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Kelvin Chepkwony

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Product Description

Seeks to address the pressing challenges of climate change in the coffee industry through practicing sustainable agroforestry and promote carbon sequestration by planting trees for every coffee package sold, we aim to mitigate the effects of climate change while fostering sustainable coffee farming practices for future generations and access to the carbon credits market for the Large, Medium & smallholder farmers.

Technology in Use

- Artificial Intelligence (AI models to assess changes in biomass)
- Remote Sensing
- IoT

Number of Customers as at December 2023

1000

Annual Revenue as at December 2023 (USD)

9000

Competitors

- Utake Coffee
- Moyee Coffee

Market Opportunity

54.9M Annually (Kenya)

4.7bn (Africa)

Funding Required as at December 2023 (USD)

100,000



MARINECATCH AFRICA

 **Food Security and Agriculture**

 **Kwale County**

 <https://marinecatchafrica.io>

 info@marinecatchafrica.io

Team Details

Kennedy Kitavi

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Muthoni Murungi

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Product Description

MarineCatch Africa revolutionizes the African seafood industry with advanced technology. Our IoT and blockchain-powered solution guarantee end-to-end traceability and transparency. Connecting small-scale fishermen, processors, and consumers, the platform fosters sustainable practices, empowers coastal communities, and aligns with global goals for responsible seafood consumption.

Technology in Use

- IoT
- Blockchain

Number of Customers as at December 2023

Nil

Annual Revenue as at December 2023 (USD)

Nil

Competitors

- Abalobi-South Africa
- Kumbatia Seafood-Kenya
- Fishcoin-Global
- AquaTrack-Nigeria

Market Opportunity

24 Billion African Market (FAO,AU-IBAR,2021)

310 Billion International Market(FAO 2021)

Funding Required as at December 2023 (USD)

3 Million



WAFUGAJI DIGITAL

Digital Transformation

📍 **Isiolo County**

🌐 www.wafugajidigital.com

✉️ kenkimathi56@gmail.com

Team Details

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Morris Biko

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Product Description

Our E-commerce platform is designed to streamline the process of buying and selling livestock, making it more efficient, secure, and accessible to livestock keepers in even the most remote areas of northern Kenya. The platform will be user-friendly, allowing sellers to list their livestock with detailed information, including breed, age, and health status. Buyers, on the other hand, can browse through the listings, compare options, and make secure transactions directly through the platform.

Technology in Use

- php
- javascript

Number of Customers as at December 2023

30

Annual Revenue as at December 2023 (USD)

500

Competitors

- mkulima young
- icow

Market Opportunity

the E-commerce market platform is expected to be 13.5B Usd by the year 2028 growing at a CAGR (Compound Annual Growth Rate) of 13.8%.

Funding Required as at December 2023 (USD)

31,446.54



PANDALOGO GREEN

 **Climate Action & Green Energy**

 **Uasin Gishu County**

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 sambenzmaxo@gmail.com

Team Details

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JARED TORORI

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Product Description

PANDALOGO GREEN is an initiative that we started in 2022 whereby we use Art to reverse the effects of climate change through planting of tree in different parts of the county in exchange of photography, Tattoos and printing of T-shirt after client buy a tree and plant it instantly.

Technology in Use

- Art

Number of Customers as at December 2023

5,621

Annual Revenue as at December 2023 (USD)

20,000

Competitors

- Government

Market Opportunity

400,000 USD

Funding Required as at December 2023 (USD)

250,000 USD

