

2023 AFRICA EARTH OBSERVATION CHALLENGE

2023 DEALBOOK





ABOUT AFRICA EARTH OBSERVATION CHALLENGE

The Africa Earth Observation (AEO) Challenge is an annual open innovation challenge aimed at sourcing novel space technologies since 2016. This challenge seeks to drive entrepreneurial activity in the African space industry and promote awareness of the value of earth observation data across the continent and in multiple sectors such as water and food security, mining, logistics, insurance, and many more. Earth observation gathers information about the planet's physical, chemical, and biological systems via remote-sensing technologies. This information can then be used to monitor changes in natural and artificial environments.

FINALISTS



Investment Ask (\$) : \$100 000
Investment Stage : N/A
Employees : 6 to 10
Year Founded : 2022
Country : Nairobi

SOTILMA Farm | Samba Thioube

Our start-up is Sotilma. Our innovative technology enables farmers to optimize their water use, reduce costs, increase yields and minimize their environmental impact. By combining IoT sensors, advanced algorithms and a user-friendly interface, we offer a complete solution for precise irrigation based on real crop needs. Our aim is to improve agricultural productivity, support environmental sustainability and bring real added value to farmers. With Sotilma, the future of agriculture is smart, efficient and sustainable.

Explain your unique selling proposition (USP):

Our solar-powered, internet-free meter solution is ideal for regions with limited electricity and unreliable internet access. It operates independently using solar energy, eliminating the need for an internet connection. Its long-distance network capability reaches remote areas without costly infrastructure. Tailored for the African context, we prioritize local support and after-sales service for maximum impact and sustainable development.

Purpose of Investment:

Strengthen our team, enhance our technology solution, expand our market presence, invest in research and development, and support our operations and infrastructure.

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Investment Ask (\$) : \$50 000
Investment Stage : N/A
Employees : 11 to 20
Year Founded : 2018 - 2021
Country : Togo

Tod'Aérs | Manuel Ntumba

Tod'Aérs Geospatial is the technology services provider, affiliated with Tod'Aérs Global Network [TGN], a global public-private partnership [PPP], established with a vision to support global sustainable development, technological innovation, and socio-economic progress worldwide.

Explain your unique selling proposition (USP):

The specialization in Earth Observation Services for SDG Implementation: Tod'Aérs specifically focuses on the use of Earth observation technology to help achieve the United Nations Sustainable Development Goals. This focus can allow Tod'Aérs to better understand the specific needs of its customers in this area and to propose more adapted solutions. Commitment to sustainable development: Tod'Aérs has a strong focus on sustainable development and social impact.

Purpose of Investment:

Technological development, Data acquisition, Marketing and communication

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FINALISTS



Investment Ask (\$) : \$20 000
Investment Stage : Seed
Employees : 1 to 5
Year Founded : 2023
Country : Egypt

Geosport | Wessam Fayz

GeoSport is your ticket to safer and more exhilarating cycling experiences. Discover the untapped potential of Earth observation technology and embrace the future of cycling. Are you ready to ride with us?

Explain your unique selling proposition (USP):

GeoSport goes beyond cycling with features like online shopping for sports gear, daily health tips, family tracking during group activities, multi-language support (including English and Arabic), and real-time incident reporting—all conveniently available in a single, all-in-one app.

Purpose of Investment:

Market expansion, Product development, Team growth

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Investment Ask (\$) : \$150 000
Investment Stage : Seed
Employees : 6 to 10
Year Founded : 2022
Country : Congo

SYNCHROS | Mbonyimwami Ketya Walter

Synchros is a technology company dedicated and specialized in the professional use of civil drones in environmental sectors. We serve various sectors ranging from the environment to agriculture in different provinces of the DRC and countries in Africa. By combining drone technology, data technology and digital transformation, we aim to provide businesses with safer, faster and more cost-effective environmental and agricultural solutions to improve business decisions, environmental decisions and planning.

Explain your unique selling proposition (USP):

We serve various environmental sectors from industry to agriculture with autonomous drones based on AI and machine learning. Our team is made up of environmental experts and drone experts. These set us apart from the competition. We use sophisticated AI-based drones with an expert management team. Our services don't just stop at visual inspections, but extend to AI software processing.

Purpose of Investment:

Market expansion, Product development, Team growth

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FINALISTS



USE GEOSPATIAL DATA AND ARTIFICIAL INTELLIGENCE FOR SUSTAINABLE DEVELOPMENT

Investment Ask (\$)	: N/A
Investment Stage	: N/A
Employees	: 11 to 20
Year Founded	: +/- 2018
Country	: Niger

Drone Service Niger | Mamane Barkawi Mansour Badamassi

Drone Service Niger is a pioneering company at the forefront of leveraging advanced technologies to provide sustainable and resilient solutions. We specialize in combining Earth Observation (EO) data, remote sensing, drones, and artificial intelligence (AI) to deliver comprehensive services in various sectors, including agriculture, forestry, mining, urban planning, and environmental protection. By harnessing the power of space-related technology, we offer reliable and efficient data collection, analysis, and insights to empower our clients in making informed decisions.

Explain your unique selling proposition (USP):

Drone Service Niger's USP lies in its expertise in Earth Observation (EO) technology, remote sensing, drone services, and AI, all geared toward sustainable and resilient solutions. What sets it apart are comprehensive end-to-end offerings that integrate EO data, remote sensing, drone services, and AI capabilities, ensuring cutting-edge and environmentally conscious solutions.

Purpose of Investment:

Market expansion, Product development, Team growth

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Investment Ask (\$)	: \$500 000
Investment Stage	: Seed
Employees	: 1 to 5
Year Founded	: 2022
Country	: Egypt

ZR3i | Walid Nasr

Zr3i is an innovative digital agriculture platform as a service offering precision farming solutions mainly crop monitoring, management and crop insurance services.

Explain your unique selling proposition (USP):

Being the pioneer services provider has its advantages as well as challenges, we have a unique value proposition and technology packaging.

Purpose of Investment:

This fund will help us continuing our product development to reach product market fit and for our go to market plans and for growing the team executing these plans.

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Investment Ask (\$) : \$500 000
Investment Stage : Seed
Employees : 11 to 20
Year Founded : 2021
Country : Benin

CosmoLAB Hub | Tchangole Martial

CosmoLAB Hub designed the SATCAP-CO2 (Satellite Capture Carbon Dioxide) system to actively combat climate change and global warming. SATCAP-CO2 is a system of Decision Support Tools for Climate Risk Prevention and Adjustment (DSt-CRPA) that aims to assess the value of Carbon and Atmospheric Oxygen using Earth observation data. This innovative technology effectively utilizes Earth Observation Data to locate and monitor carbon dioxide emissions at concentrated sites. To contribute effectively to mitigation, adaptation, and resilience to climate shocks, we deploy data-driven mass extraction of CO

Explain your unique selling proposition (USP):

Our innovative approach leverages Copernicus satellite data for global greenhouse gas monitoring. We employ electro-swing technology with drones and aircraft to capture and repurpose CO2 and CH4 from these sites, facilitating responsible carbon valorization for diverse industrial purposes.

Purpose of Investment:

Market expansion, Product development, Team growth

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Investment Ask (\$) : \$66 600
Investment Stage : Series A
Employees : 1 to 5
Year Founded : 2022
Country : Kenya

GeoDevOps Limited | Chrispine Omondi

Working with farmers in Kenya through the Farming PRO, implementing Smart farming solutions by providing Field Maps for geo-mapping of farmlands and integrating the mapped areas to the "Cloud" for crop monitoring by satellite. The "Cloud" -Land Viewer, is an Online Platform that implements Farming by Satellite. The platform enables the farmers to map their own fields for crop monitoring in order to subscribe, connect and receive automated, readily analyzed satellite data about their farm including weather, crop health, soil condition and predicted yields towards sustainable food production.

Explain your unique selling proposition (USP):

This innovative project creates a unique spatial digital platform for farmers, offering geospatial information for data-driven decision-making. It provides farmers with digital farm maps, simplifies data sharing, and allows easy access to historical records and predictions, streamlining data management and providing evidence for informed actions.

Purpose of Investment:

Market expansion, Product development

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FINALISTS



Investment Ask (\$) : \$3 000 000
Investment Stage : Series A
Employees : 6 to 10
Year Founded : 2014
Country : Sub Saharan Africa

SnooCODE Limited | Sesinam Dagadu

At SnooCODE Limited, creators, engineers, mathematicians and social scientists come together to provide next-generation location-based solutions to power core citizen centric services in the developing and developed world. Responding to the pervasive problem of lack of formal addressing in most of sub Saharan Africa, we invented an offline digital addressing system for governments, public authorities, international development organisations, public health services, businesses and individuals. The system presents solutions for efficient and accountable logistics, mobility and governance.

Explain your unique selling proposition (USP):

SnooCODE's universal usability, regardless of education level, sets it apart from What3words (W3W). It only requires basic knowledge of ABCs and 123s. Additionally, SnooCODE offers unique features like rapid route optimization, proof of delivery, compliance verification, and integration with emerging tech like driverless cars and drones, giving it a clear edge over competitors.

Purpose of Investment:

Market Expansion

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Investment Ask (\$) : \$1 038 500
Investment Stage : Seed
Employees : 1 to 5
Year Founded : 2019
Country : South Africa

YaAzi | Yolanda Dolly Nxumalo

YaAzi is a data-driven company that researches and develops software algorithm for energy harvesting in LoRaWAN for space communication. In addition, to using drones to deliver medicine, we also offer training and certification services for drone and data professionals. With funding, support, and publications from government entities and universities. We aim to create a data-driven ecosystem that fosters innovation, collaboration, and quality in Earth observation and beyond.

Explain your unique selling proposition (USP):

We provide a low-pwr, low-cost, long-rng, and automated adv data anl solution for ground IoT devices that use EO tech for agriculture apps. Unlike our competitors, we offer a comprehensive and integrated solution that covers the value chain of EO tech, from data collection to data anl, using LoRaWAN, energy harvesting, satellite communication, and AI. We also offer a versatile and scalable solution that can be adapted to different apps and industries that use EO tech. We empower our customers with the best tech and insights to solve their challenges and opportunities in Africa using EO tech.

Purpose of Investment:

Product development, Team growth, Market expansion.

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