

ASTRAL AERIAL



Joint Accelerator

#Africa
4Future

FOUNDER

Kush Gadhia
Geoffrey Nyaga
Mwanzia Mawilli
Sanjeev Gadhia
Yunus Munshi

FOUNDED

January, 2016

COUNTRY

Kenya

DOMAIN

Automation and Drones

MATURITY LEVEL

1st Customer

CONTACT

kush@astral-aerial.com

www.astral-aerial.com

ABOUT

Astral Aerial is a Kenyan drone operator that offers drone services suitable for humanitarian cargo transport, aerial surveillance and security, agriculture, oil and gas services and emergency response.

PROBLEM STATEMENT

Delivery of urgent supplies like antidotes using current means is very slow. Existing transport options are either too expensive or take too long and have a high risk of theft.

SOLUTION

Astral Aerial provides commercial drone operations with FLYOX Cargo Drone. The team has extensive experience in the aviation industry and offers a number of services ranging from cargo transport, to insurance and training.

Potential Customers/Applications

Cargo delivery, agriculture, industrial surveillance, and humanitarian services.

COTE D'IVOIRE DRONE



Joint Accelerator

#Africa
4Future

FOUNDER

Marouane Jebbar

FOUNDED

July, 2017

COUNTRY

Ivory Coast

DOMAIN

Automation and Drones

Data Analytics

MATURITY LEVEL

Commercialisation

CONTACT

marouane.jebbar@gmail.com

www.cotedivoiredrone.com

ABOUT

Cote D'ivoire drone manufactures drones tailored to the needs of their customers, ensuring efficiency and speed of delivery. It also specialises in data collection and analytics and is recognised as the leader of drone technology in Ivory Coast.

PROBLEM STATEMENT

There is a market gap of customised drone technology and data analytics across various sectors in Ivory Coast.

SOLUTION

CI Drone offers customers a complete; cheap and ready to use drone and data processing solution.

Potential Customers/Applications

Construction and civil engineering companies/
agriculture, energy, telecommunications and mining sector.

ELEMENTAL NUMERICS



FOUNDER

Arnaud Malan
Leon Malan

FOUNDED

January, 2018

COUNTRY

South Africa

DOMAIN

Data Analytics,
Manufacturing

MATURITY LEVEL

1st Customer

CONTACT

arnaud.malan@uct.ac.za

leon.malan@uct.ac.za

www.incfcd.uct.ac.za/home-178

ABOUT

Elemental software uses novel mathematical models and equations in the field of computational fluid dynamics (CFD) – offering accurate flight predictions. Applications of the technology range from aircraft design to heart valves.

PROBLEM STATEMENT

The aviation industry requires the study of the dynamics of fluid flow in order to allow for precise modelling and predictions of aerodynamic behaviour.

SOLUTION

Elemental Numerics uses mathematical modelling methods to describe the dynamics of fluid flow, coupled to innovative digital solution techniques that efficiently harness modern computational power.

Potential Customers/Applications

Aircraft, spacecraft and large ship manufacturers.

LENTERA LIMITED



FOUNDER

Moses Kimani

FOUNDED

October, 2016

COUNTRY

Kenya + Uganda

DOMAIN

Automation and
Drones, Manufacturing

MATURITY LEVEL

Commercialisation

CONTACT

mkimani@gmail.com

www.lenterafrica.com

ABOUT

Lentera is a farming technology company enabling farmers to adapt to climate change through climate smart inputs, precision agriculture and conservation tillage.

PROBLEM STATEMENT

Agricultural productivity in Africa is among the lowest in the world. Higher productivity requires better crop nutrition, crop protection, soil management, affordable access to finance and reliable access to markets.

SOLUTION

Lentera has a precision agriculture module that allows the use of sensor beacons to transmit farm data such as temperature, humidity and soil moisture to enable timely farm decisions such as when to apply water, fertiliser, and when to scout for pests and diseases.

Potential Customers/Applications

Large/small-scale farmers.

MAMABIRD



Joint Accelerator

**#Africa
4Future**

FOUNDER

Eugene Maseya

Thomas Lauzon

FOUNDED

September, 2017

COUNTRY

Malawi

DOMAIN

Automation and Drones

MATURITY LEVEL

1st Customer

CONTACT

eugene.maseya@mamabird.iowww.mamabird.io

ABOUT

MamaBird is an emerging drone logistics company delivering lifesaving supplies to the last mile with a special focus on maternal and newborn health.

PROBLEM STATEMENT

A lack of sufficient infrastructure in rural areas makes access to hospitals a major challenge, thereby causing high rates of maternal and infant mortality.

SOLUTION

Mamabird offers delivery and live tracking of low cost birth kits and other health products to remote areas using fully automated drones within a 60 km range.

Potential Customers/Applications

Health sector/ International non-governmental organisations.

MAP ACTION



FOUNDER

Boubacar Youssouf

FOUNDED

February, 2018

COUNTRY

Mali

DOMAIN

Automation and
Drones, Data Analytics

MATURITY LEVEL

Commercialisation

CONTACT

by.keita@gmail.com

www.map-action.com

ABOUT

Map Action specialises in geolocation, monitoring, and data assessment in the fields of environment, WASH and sustainable development.

PROBLEM STATEMENT

Bamako is facing serious challenge in the sectors of waste and water management. A lack of reliable information and data analysis prevents the successful coordination of measures to alleviate the problem.

SOLUTION

Map Action developed a real-time mapping tool which facilitates citizens engagement and coordination of different actors and authorities to allow improved management in the WASH sectors.

Potential Customers/Applications

Local Authorities/ Municipalities

Early warning structures/ Regional water and forestry directorates.



MAISHA ICT TECH

FOUNDER

Fassika F. Hailemeskel
Tizzita M. Tefera

FOUNDED

May, 2016

COUNTRY

Ethiopia

DOMAIN

Automation and Drones

MATURITY LEVEL

Prototyping

CONTACT

fassikafikre@gmail.com

tizzitamtefera@gmail.com

www.mitmita13.wixsite.com/

mtenaeth

ABOUT

Maisha ICT provides self- developed drone technology and a delivery service catering to issues of last mile distribution of blood and healthcare products with the aim to reduce maternal and infant mortality in Ethiopia.

PROBLEM STATEMENT

High rates of preventable maternal mortality are largely due to haemorrhaging; and with a limited number of blood banks available throughout the country, there are major challenges in meeting the demand for timely blood delivery.

SOLUTION

Maisha ICT drone technology aims to provide a fast, efficient and affordable method of blood and healthcare product delivery to (remote) rural areas.

Potential Customers/Applications

Ministry of health/ Local blood banks.

MOBITECH WATER SOLUTIONS



FOUNDER

Kelvin Gacheru

FOUNDED

July, 2016

COUNTRY

Kenya

DOMAIN

Data Analytics

MATURITY LEVEL

Commercialisation

CONTACT

gacheru@techwatersolutions.com

www.techwatersolutions.com

ABOUT

MobiTech Water Solutions developed a real-time water monitoring solution that allows businesses, homes and water service providers to monitor and manage their available water using an app-based dashboard and instant messaging.

PROBLEM STATEMENT

The current water deficit in Nairobi is 220 million litres/day with a 25% yearly growth, there is an inconsistent water supply to homes, businesses and communal water points, and a lack of affordable monitoring solutions.

SOLUTION

MobiTech offers an affordable and remote real-time water monitoring solution that warns users when water levels are low and allows users to review their water use history and trends to project demand.

Potential Customers/Applications

Households and commercial businesses.

TRACK YOUR BUILD



FOUNDER

Edmond Nonie

FOUNDED

June, 2014

COUNTRY

Nigeria

DOMAIN

Automation and Drones

Artificial Intelligence

Data Analytics

MATURITY LEVEL

Commercialisation

CONTACT

edmondnonie@gmail.com

www.tybprojects.com

ABOUT

Track Your Build provides clearer insight for better infrastructure to companies, NGOs and governments who are building or already own infrastructure but struggle to have reliable and high-quality information to manage ongoing projects or maintain existing assets.

PROBLEM STATEMENT

There are large demands for infrastructure and road construction and multi-sector clients looking for consistent data on their projects, processes or assets.

SOLUTION

Track your build provides drone data and comprehensive, fast and actionable evaluation. Automated analysis of field data is provided using artificial intelligence.

Potential Customers/Applications

Infrastructure and construction sector, International organizations and large oil & gas and telecommunications clients.

WIPO WIRELESS POWER



Joint Accelerator

#Africa
4Future

FOUNDER

Jaco du Preez

FOUNDED

February, 2017

COUNTRY

South Africa

DOMAIN

Automation and Drones,
Electrification, Manufacturing

MATURITY LEVEL

1st Customer

CONTACT

[jaco.dupreez@wipo-](mailto:jaco.dupreez@wipo-wirelesspower.com)

wirelesspower.com

www.wipo-wirelesspower.com

ABOUT

WiPo provides and installs safe, convenient and reliable wireless power chargers for drones and other mobile devices, thereby enabling the frequent deployment of autonomous drones.

PROBLEM STATEMENT

Battery powered UAV, UAS, and drones require constant human intervention for charging batteries, deploying drones and replenishing liquid payloads making the drones unsuitable for autonomous flight.

SOLUTION

WiPo's solution is a drone port or nest that securely houses the drone, whilst automatically charging the drone battery without human intervention, allowing for frequent and autonomous flights.

Potential Customers/Applications

Drone manufacturers, distributors and operators.