Aiolize

PROJECT I.O.X



Aiotize is a manufacturer of unmanned aircraft systems for businesses and governments worldwide.

Based in India, Aiotize develops and builds multirotor platforms to aviation-grade quality standards, making them reliable, stable, and versatile.

These autonomous unmanned aerial systems UAS comprise full aerial data solutions to support a variety of commercial applications like security & surveillance, agricultural surveys and mapping, Asset survey etc.



IOX is an enterprise drone automation concept that provides drone agnostic software solutions to deploy with fully automated & cloud-connected commercial drones at scale.

We Build Smart and Scalable
 Drones & Applications.

 Automating Drone
 Operations by leveraging the Internet of Drones.

 Simplifying remote drone missions, beyond visual line of sight [BVLOS]. Value Proposition

Customer Value Proposition

Control Drone from Anywhere.

With Unlimited Range

live video feed and control drone over 4G/LTE.

Built for Safety,

Security & Reliability

- Geofence and pre-flight
 checklist make sure the flights
 are safe.
- End-to-end encryption and authentication keeps drone and data access - secure.

Cloud-based application

Allows users to access the dashboard on any machine, anytime with no installation required.

Like the internet and GPS before them, drones are evolving beyond their military origin to become powerful business tools.

They've already made the leap to the consumer market, and now they're being put to work in commercial and civil government applications from firefighting to farming, Security to emergency response. That's creating a market opportunity that's too large to ignore.

Applications

Aiotize steps in with its Internet of Drones (IoD) – a derivative of Internet of Things (IoT) – which connects UAVs to Internet-linked systems to record and analyze data.

Our Drones could be used across a range of applications by



Enterprises



Defense & homeland security



Defence & Homeland Security

Drones or UAVs can identify security and terrorism-related challenges and pinpoint vulnerable areas that are prone to various risks.

Drones are the modern-day force multiplier that can enhance the capabilities of security forces to contain terror and to counter the emerging challenges in defence and homeland security.









Anti Terror

Detect threats and identify risk-prone areas from a remote location

Border Security

Conduct reconnaissance
missions and track
illegal activities without
risking lives

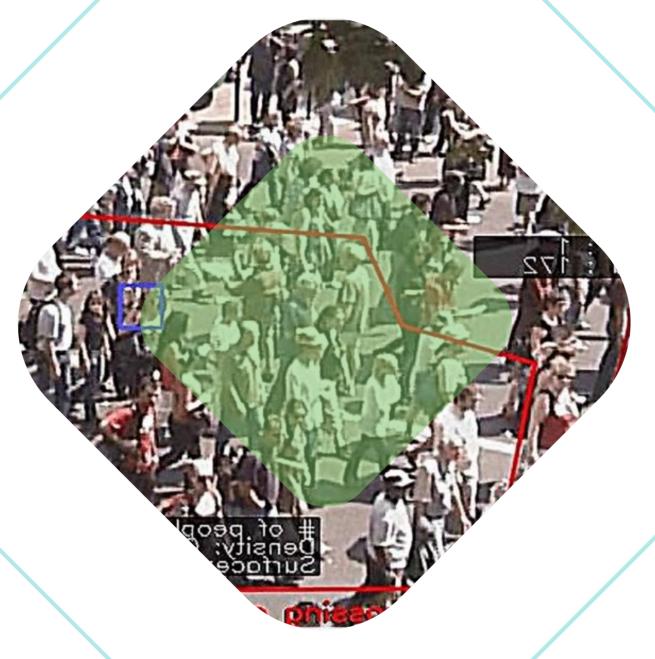
Counter Insurgency

Conduct surveillance

and gather actionable

intelligence







Crime Control

Enhance law enforcement
with remote situation
assessment and crime
scene analysis

Crowd Monitoring

Detect irregular activity
and gain in-depth
situational awareness

Disaster Management

Gain real-time knowledge of the situation and plan search and rescue

operations effectively

Enterprise

Drones have become an integral part of operations such as mapping, surveying, equipment inspection, analyze difficultto-monitor areas, project monitoring and precision agriculture activities. The deployment of drones for such operations reduces crew costs by minimizing timeconsuming ground observations.









Precision Agriculture

Analyze crop growth

pattern and inspect

crops for diseases

quickly

Construction & Real Estate

Inspect buildings, bridges, rail lines and other infrastructure without scaffolding or booms

Industrial Asset
Inspection

Examine solar farms and detect anomalies with fewer or no personnel







Mining

Use aerial surveys and photogrammetry to improve blast optimization

Oil & Gas

for detecting leaks or

emissions, spills and

corrosion in hard-to-reach

areas

Power Transmission

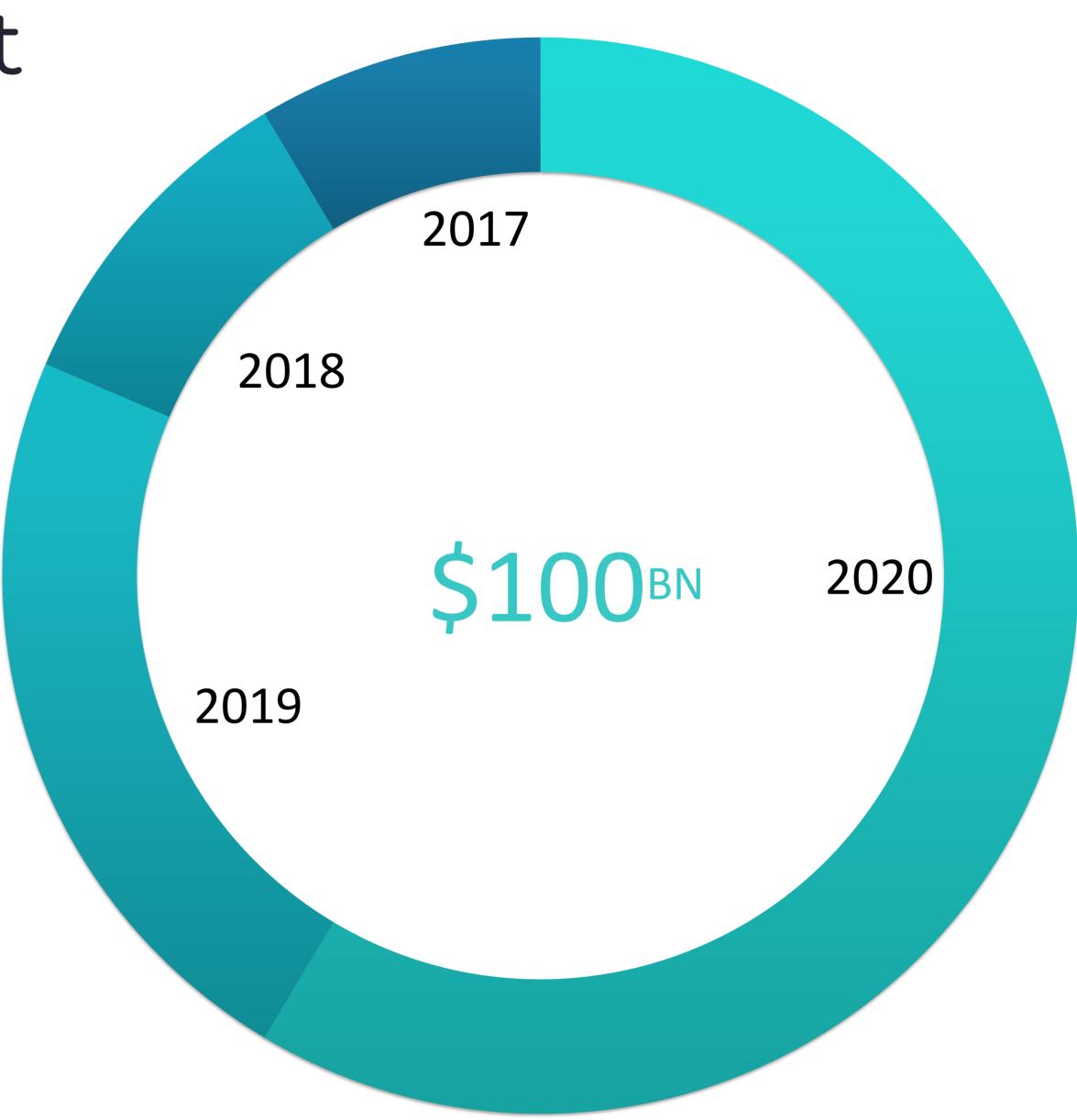
Inspect transmission
towers and distribution
infrastructure without
risking human lives



Global Market Forecast

Between 2016 to 2020, a forecast of \$100 billion market opportunity for drones—helped by growing demand from the commercial and civil government sectors.

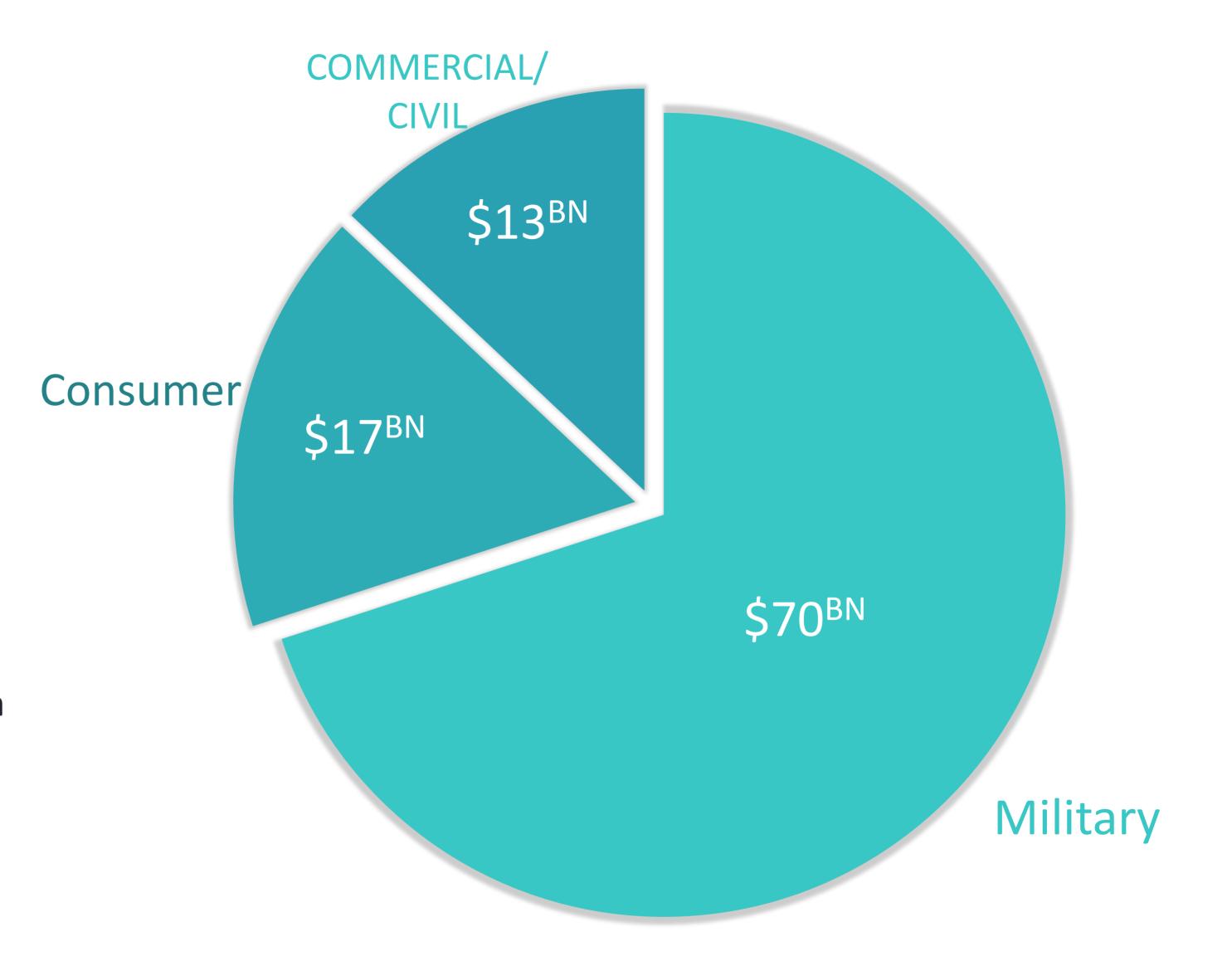
Source: Goldman Sachs Research



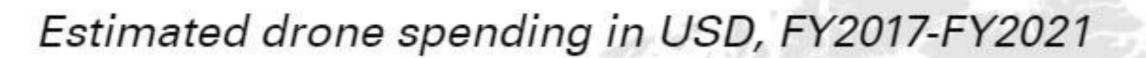
MARKET SHARE

- Defense will remain the largest market for the foreseeable future as global competition heats up and technology continues to improve.
- The consumer drone market was the first to develop outside the military.
- The fastest growth opportunity comes from businesses and civil governments.

Source: Goldman Sachs Research



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Rest of the World
\$8.0 BN





The Product

- Drone/UAV
- Ground Control Station
- Control Software
- Ai/ML Algorithms
- Encrypted
 communication system.

Product Overview



IOX is the modular Drone which is convenient to assemble, control & replace in case of need. It provides the user with an endurance of about 50 minute flight time under normal operations.

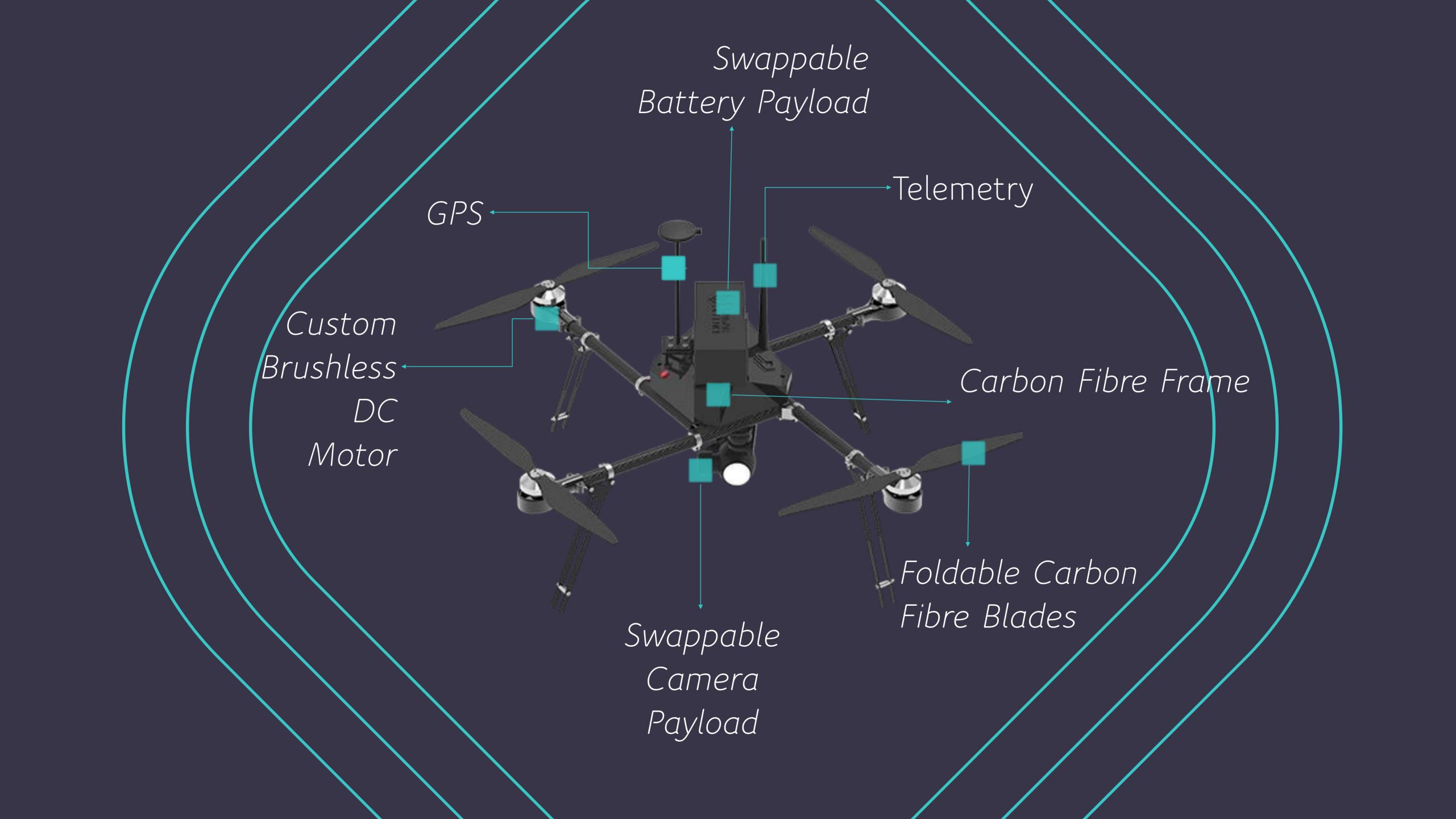


Endurance of 50 minutes flight time on a single charge

Available in Lightweight carbon fiber frame/
Aluminum/FRP with a modular design

Fully Autonomous

Mission execution.



Endurance of 50minutes flight timeon a single charge

Fully Autonomous
 Mission execution.

Modes including auto,
 manual, follow me and
 many more

Robust and easy to repair.

Operational range is

~ 30KM

Modular design
 easily reducing the
 time for storage and
 travel

Ground Control Station Software

IOX has its own proprietary software for waypoint navigation, & planning a mission. The software communication with the drone is encrypted.



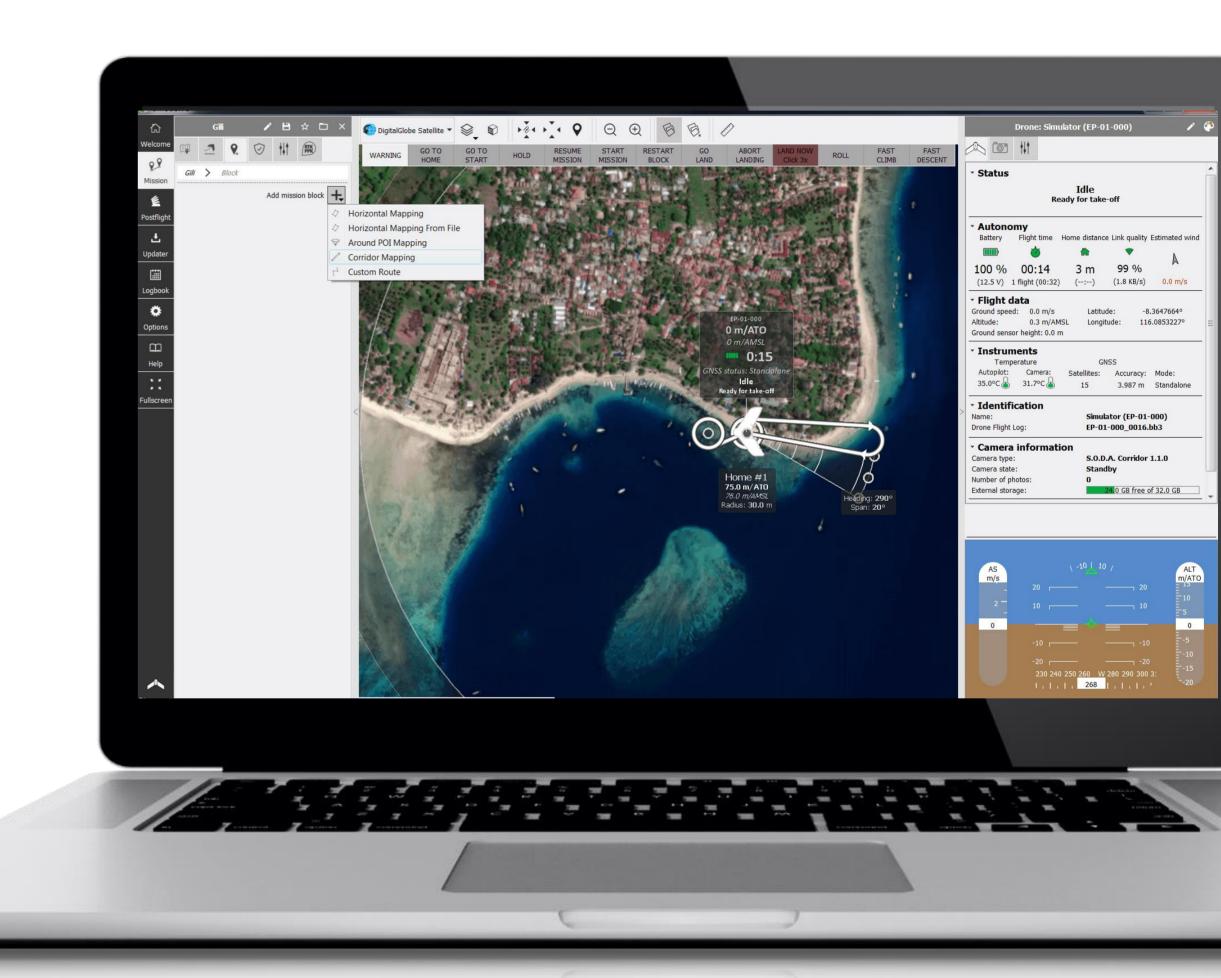
Navigation panel

Displays the Realtime location & GPS coordinates of the drone.

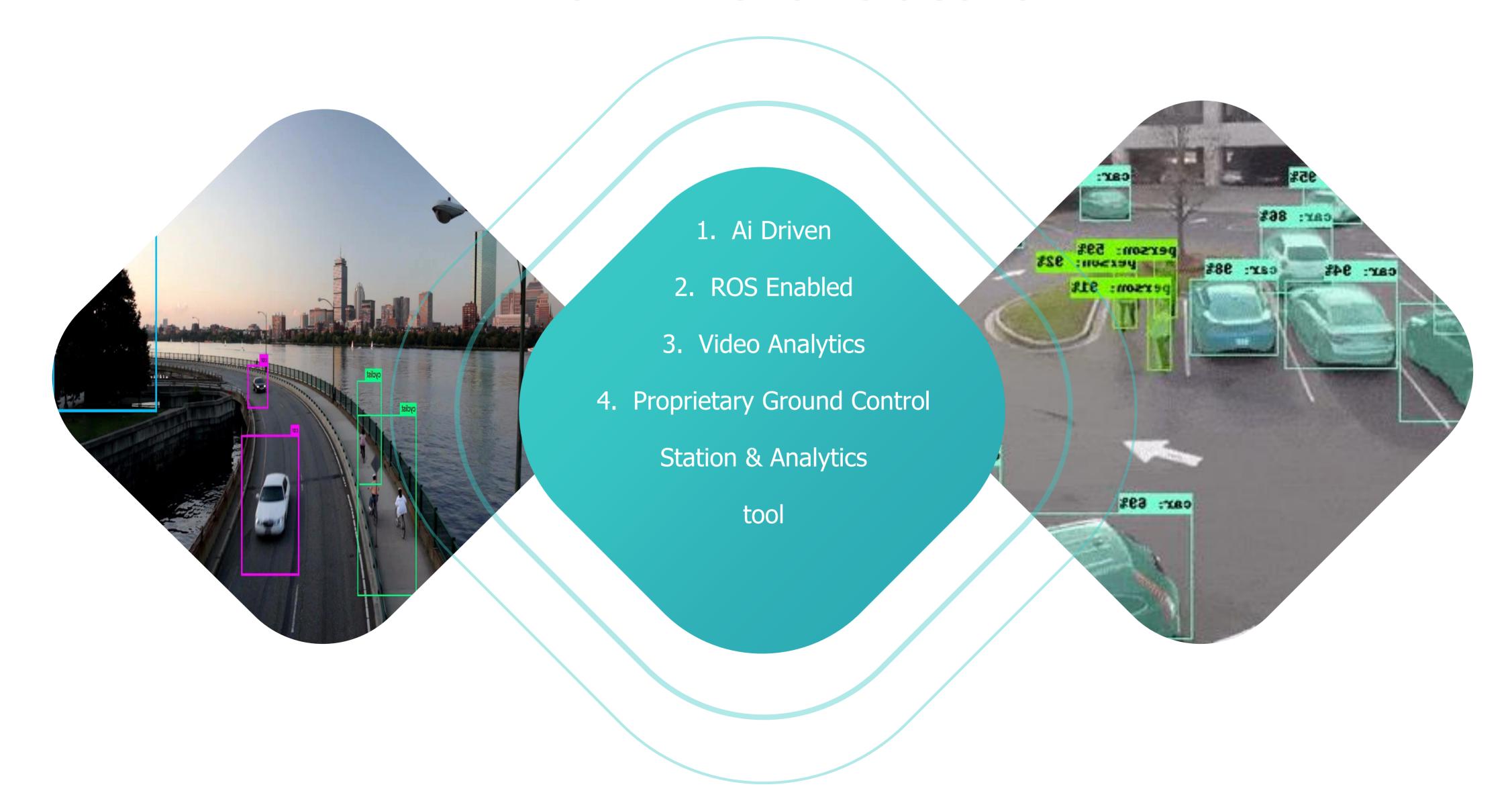


Video Panel

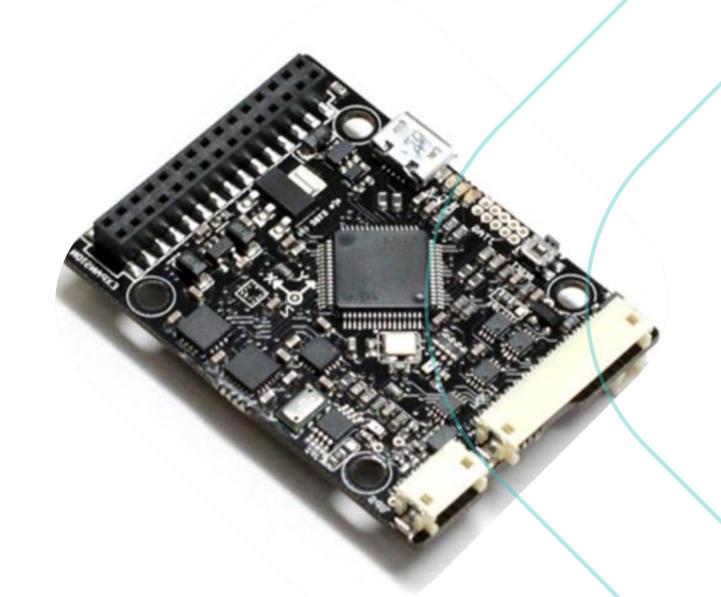
Displays the Realtime footage from the onboard camera



The Differentiators



The Differentiators







Autopilot

IOX is capable of doing BVLOS [Beyond visual line of sight] missions, once the waypoints are given by the ground control

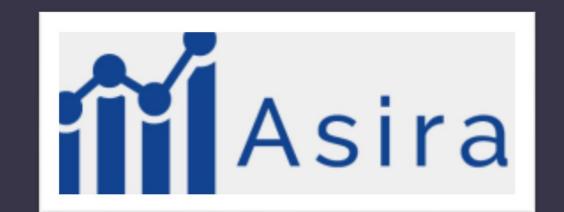
Proprietary Ground Station

Software

Load mission coordinates & it receives live footage of the mission.

Operational Range

IoX is capable of communicating & sending Videos from as far as 30 KM.



Proprietary Analytics Tool



Asira BI tool is a Value addition to IOX project, it generates reports & data visuals on basis of acquired data by the on drone while its operation.

Research & Development

Project IOX is a constantly evolving concept as there's intensive research required to develop out of the box solutions. This gives iox a competitive edge as the current systems are very generic in nature.

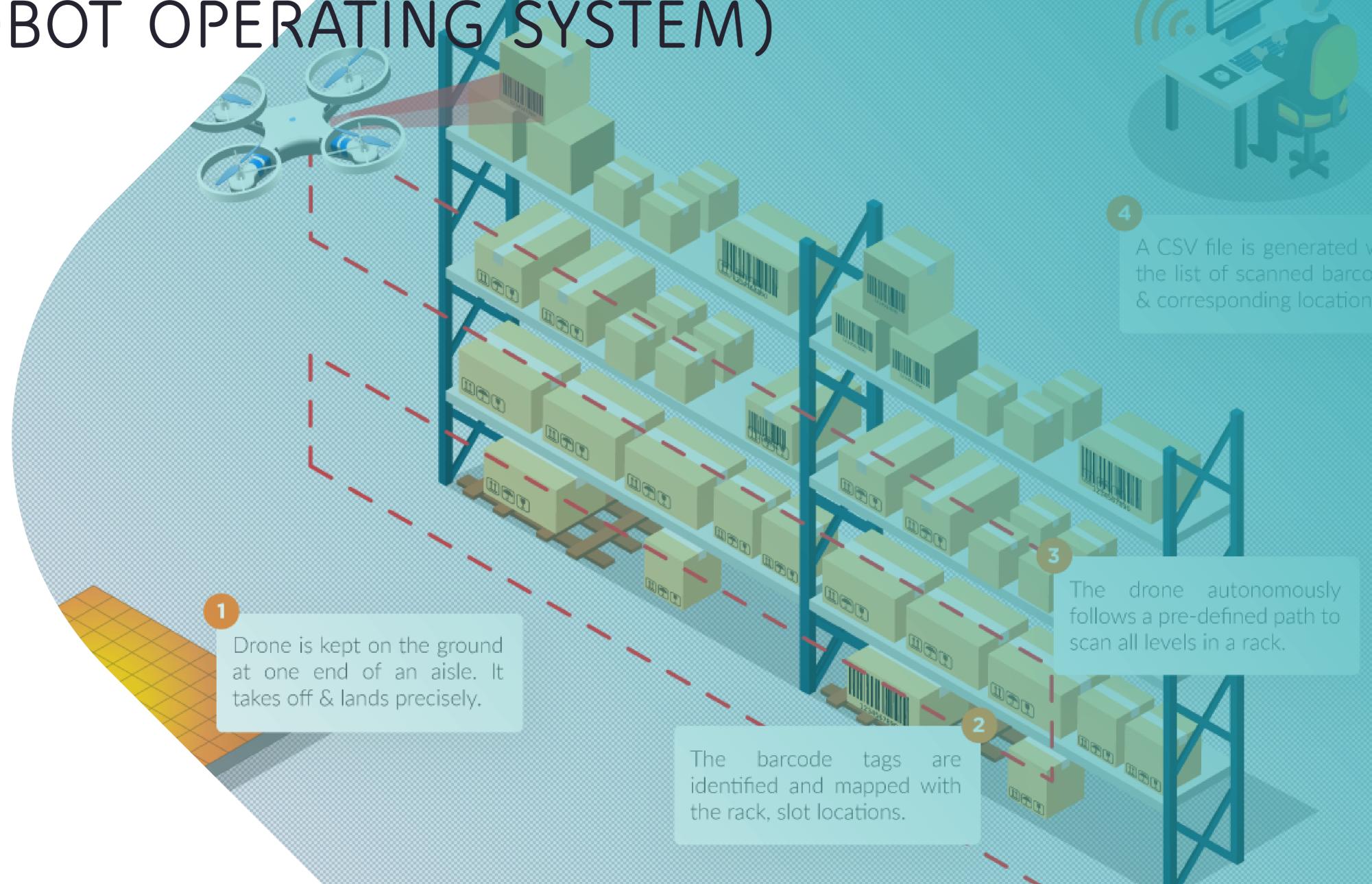


- IOX concept is built on ROS
 [Robot Operating System].
- 2. Ai Models such as facial recognition, object detection & avoidance are constantly trained by our Data scientist.
- 3. Video Analytics Models are trained to identify abnormalities in the operational ecosystem

ROS (ROBOT OPERATING/SYSTEM)

The Robot Operating System (ROS) is a set of software libraries and tools that help to build robot applications.

IOX is ROS enabled, which is its Intellectual property, for indoor navigation without GPS coordinates.



PORTFOLIO

IOX is in pre production stage.

Some of the POC testing has been done with the said clients. This rigorous testing has helped us to conceive the production ready models according to the industry standards.











Monthly Subscription

Drone & the Platform could be
licensed on monthly basis for
services such as security, mapping,
inspection

Service On Demand

Drone on Demand could be charged on task basis, hourly or daily basis. No Licensing would be required it would be according to the service.

Drone in a box Solution

Bespoke drone solution with the platform would be provided, with white labeled IOX platform for the businesses.

Core Team



Shivansh Sethi [CEO/Founder]

5 Years of experience in IOTUC San Diego.





Prayag Sharma
[R&D Lead]
Robot operating system
expert | UAV/Drone
specialist| Drone Pilot





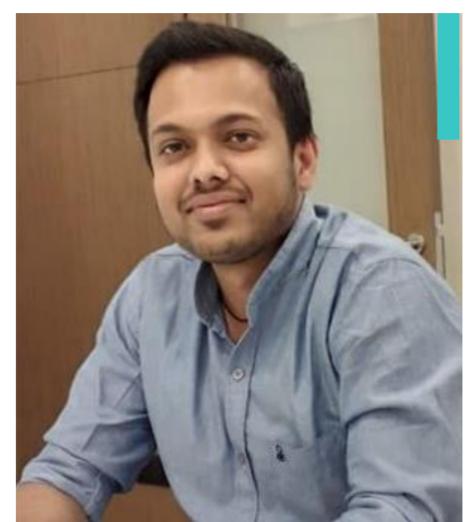
Sukhdeep Singh [CTO]

Data Scientist

MS Macquarie University,

Australia





Anurag Jain
[Chief Software]

Ex-Zomato | 5 years of exp.

In Software Devl Analytics.



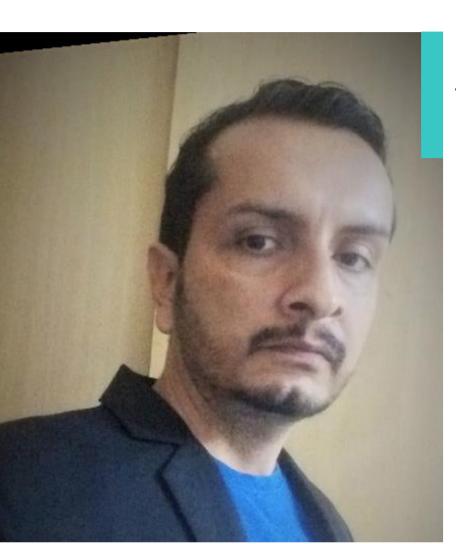


Kapil Kumar [Technology Lead]

Drone Hardware expert | Drone Pilot



Core Team

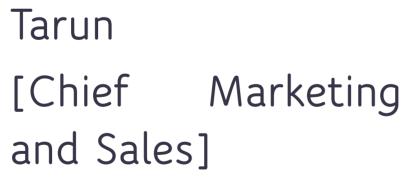


Jeevan Mahala [Chief Adviser]

17 years of exp. In technical sales | ex-Quick Heal









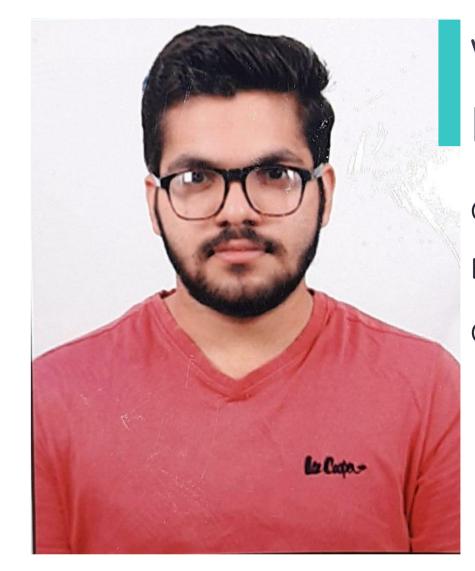
Tushar Bhatnagar [Chief AI]

Research Scientist

University of Bristol, United

Kingdom





Vinayak [Drone Pilot]

Computer Science
Engineer
Chitkara University India





Mahima Gupta [DS Intern]

Masters in DS

Macquarie University

Australia



