



 **BEYOND VISION**

HEIFU[®] PRO

HEIFU PRO is a class 3 hexacopter, powered by a high-capacity battery and controlled by a state-of-the-art flight controller which can be operated locally or by a remote application.

The HEIFU PRO was designed to be a versatile drone in several areas, which go from agriculture to safety, infrastructure inspection, monitoring, support to emergency teams, and others.

Its design enables the installation of different modules to answer the needs of the user. It is prepared to be equipped with gimbals and several types of sensors like RGB, multispectral and 360° cameras, as well as LiDAR and other custom supports.

This configuration is ideal to run complex Artificial Intelligence algorithms, making the HEIFU PRO the perfect drone for complex tasks such as event detection or object counting.



HEIFU[®] PRO

Main Features



● A stable and safe flight

The six rotors concept allows the drone a normal flight and safe landing even in the event of a rotor failure, making the flight safer.

● Advanced communications

The HEIFU PRO allows the usage of local communications (such as Wi-Fi), but also mobile networks like 4G and 5G for the best experience of real-time piloting and video streaming. Just add the accessories: a large set of accessories can be added to the drone, taking the flight experience to a higher level.

● Large autonomy

A high-performance battery ensures a stable and long duration power supply to all the electronic circuits of the drone.

● Autonomous missions

The software enables the generation and download pre-planned missions to the HEIFU PRO, which can be executed autonomously in real-time or pre-scheduled.

● Enhanced positioning accuracy

A GNSS RTK (Real Time Kinematic) enhances the positioning accuracy, which can go down to 10cm.



HEIFU[®] PRO

Main technical characteristics

Net weight (w/battery / wo/battery) [g]	11.000 ; 5.000
Weight (payload) [g]	4.000
Battery Voltage [V]	22.2 (nominal)
Battery capacity [mAh]	60.000
Max. Linear velocity [km/h]	80
Max. Angular velocity	720°/s
Max. Autonomy [min]	70
RTK positioning constellations	GPS L1/L2, GLONASS, QZSS, Beidou, GALILEO
RTK positioning accuracy	Down to 10cm
Wired interfaces	USB 3.0
Wireless interfaces	WiFi 2.4GHz, LTE 4G, 5G, Zigbee 2.4GHz
Operating Temperature [°C]	0 up to +40



HEIFU[®] PRO

Main technical characteristics

● The **design** allows the installation of different modules to answer the needs of the user



30x optical zoom camera



40x optical zoom; 80 digital zoom + thermal camera



30x optical zoom + thermal camera



360 8K camera



Velodyne Lidar sensor



Livox Avia Lidar sensor



Multispectral camera



Transportation box

beXStream®

Real-time remote control over unlimited distance

The beXStream is an innovative and friendly platform, providing total remote control of the drones in one integrated application with robust functionality that allows the creation, monitoring and review of each mission. Beyond Vision offers different packages to suit the needs of the user, from the basic package of 4 drones to the ultimate package of more than 8 drones.

The beXStream platform can be an important part of the business in the services it provides in areas as different as Agriculture, Infrastructures and Safety.

- Simple to use platform for the remote control of the drones
- Scalable from small organizations to big enterprises
- Total remote control
- All integrated in the same platform
- Excellent support



beXStream®

Total remote control

Unlimited distance connection to remotely control from anywhere in the World

Mission management

Planning module for mission's planning, monitor and review. A flight history search can show all the missions executed in the past.

Maps creation

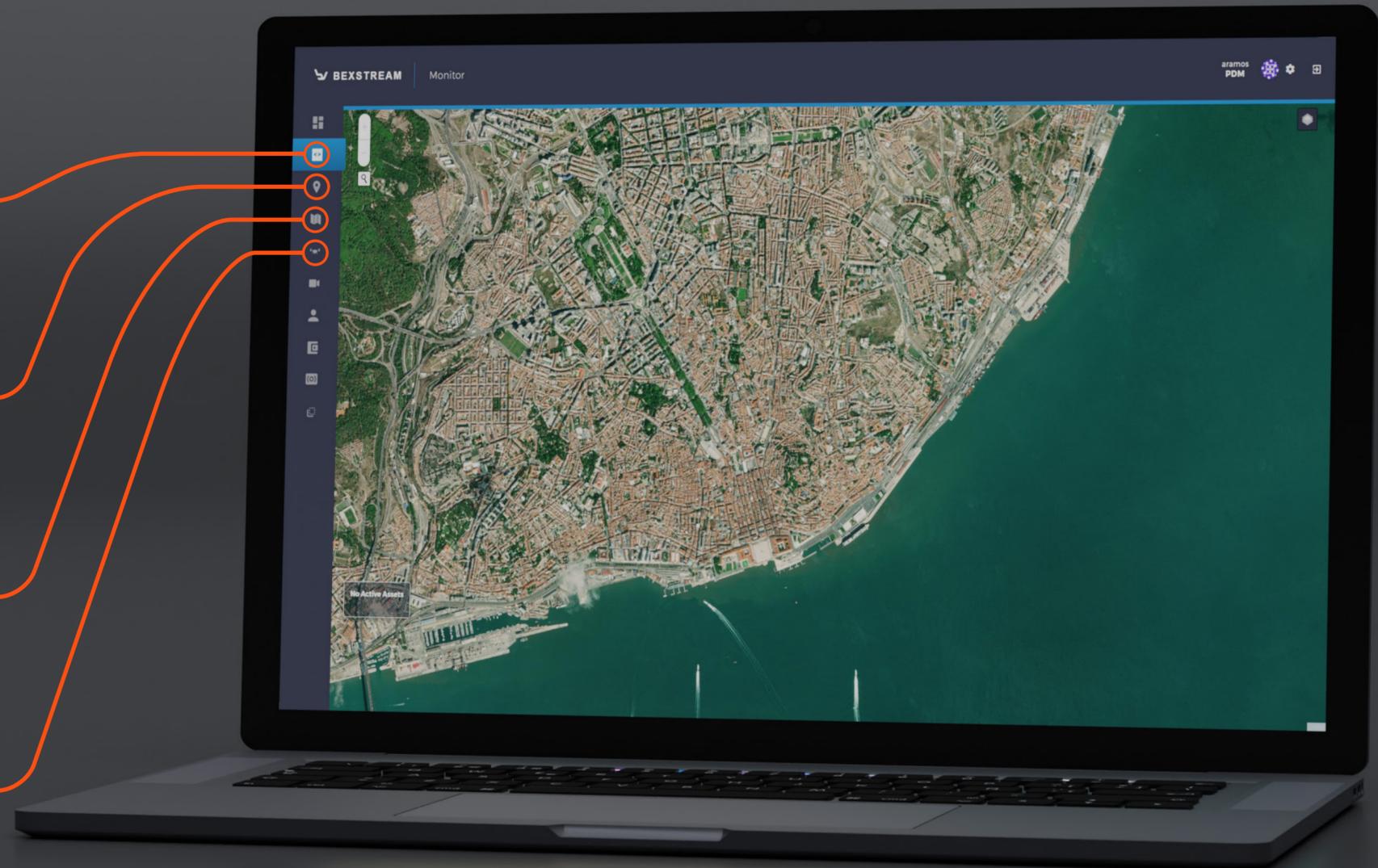
Multispectral maps, point clouds and 3D models of aerial images generated using 2D and 3D mapping software

Fleet management and control

Control of all assets with a planning framework for mission creating, monitoring and updating within the same application.

User-friendly

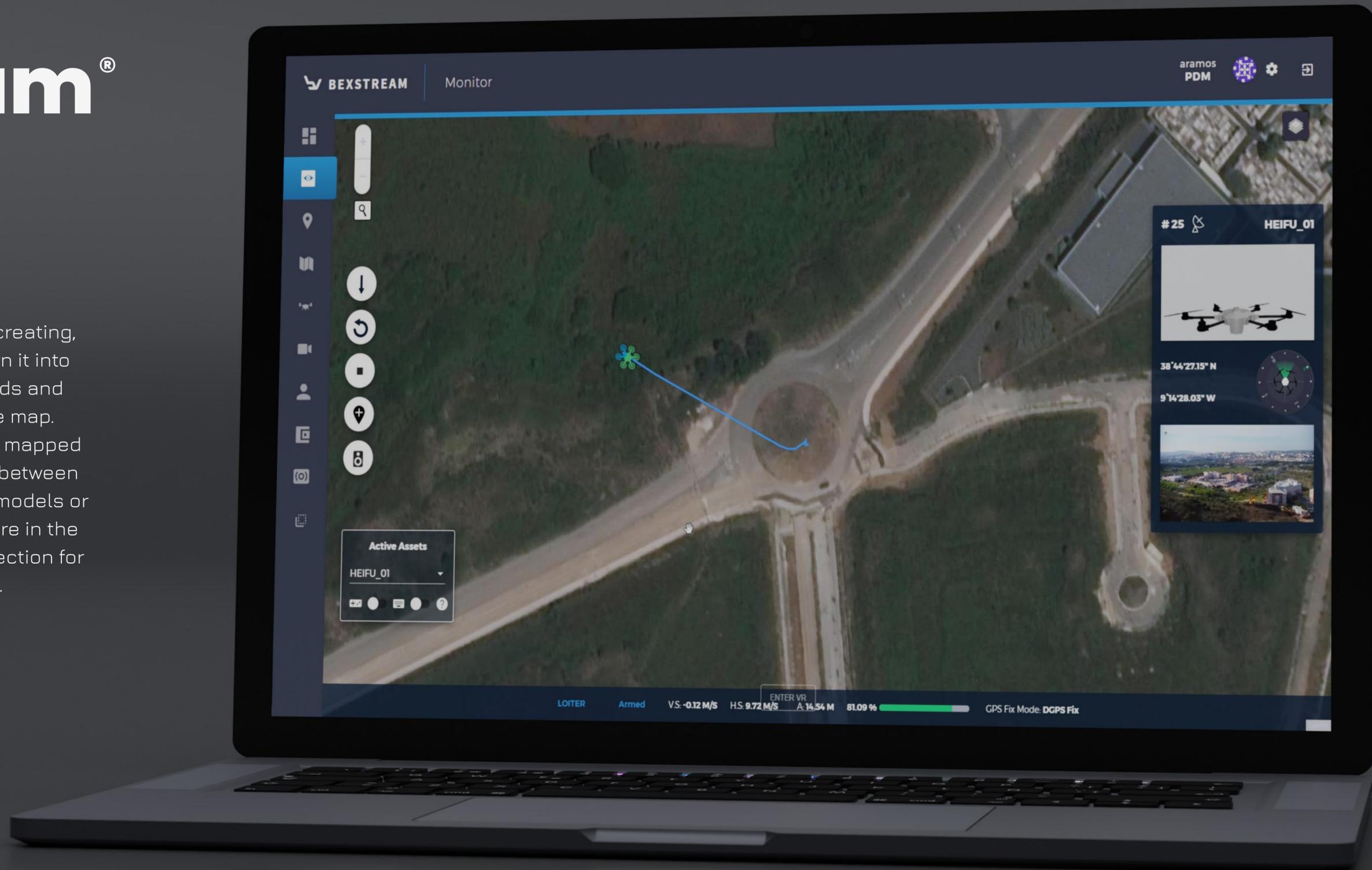
Platform with easy-to-use interface and software optimized for simple interaction, dropping the need for specific training.



beXStream®

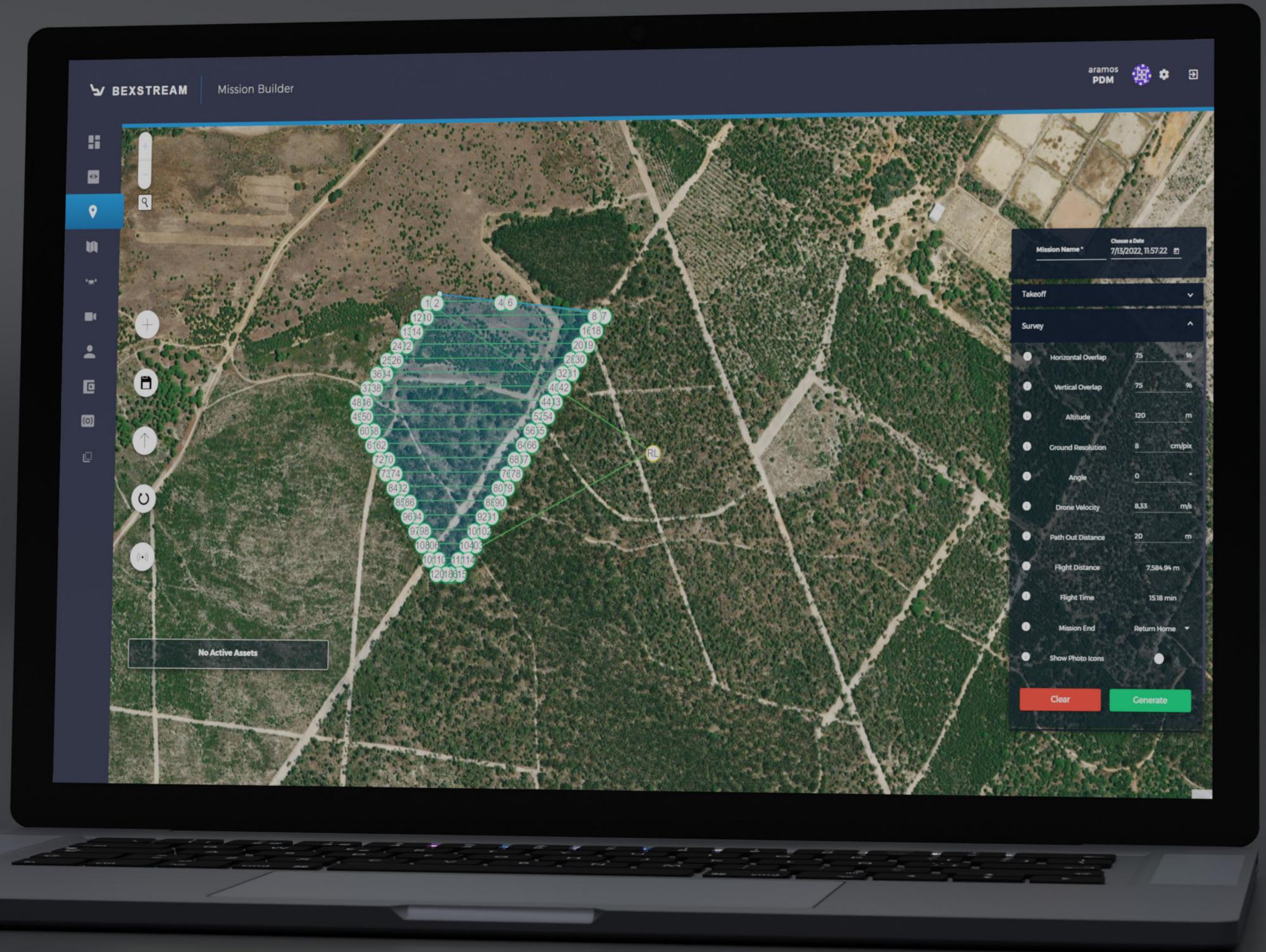
Total remote control

Ability to control multiple assets in one platform with a planning framework for creating, monitoring, or updating the mission. Turn it into an automated flight mission around roads and railways by drawing a simple line on the map. Easy configuration to specify total area mapped with additional customisation to select between creation of high-level 2D maps and 3D models or quick outlines. Accessible from anywhere in the world allowing unlimited distance connection for a drone fleet's real-time remote control.



Mission management

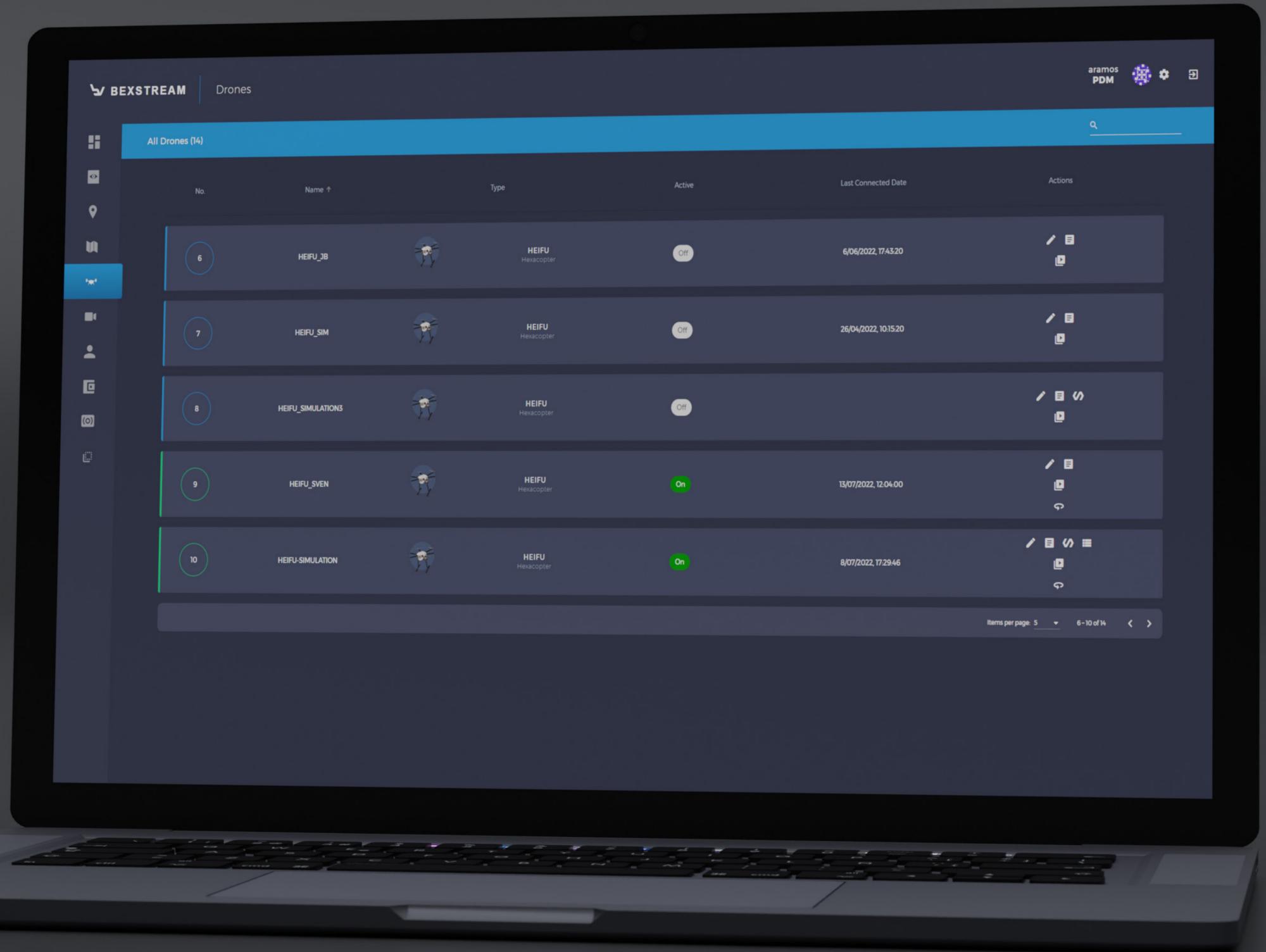
Easily pre-set challenging missions to capture aerial images including multispectral maps, point clouds and 3D models. These are processed to generate models and maps for further analysis and decision making.



beXStream®

Fleet management and control

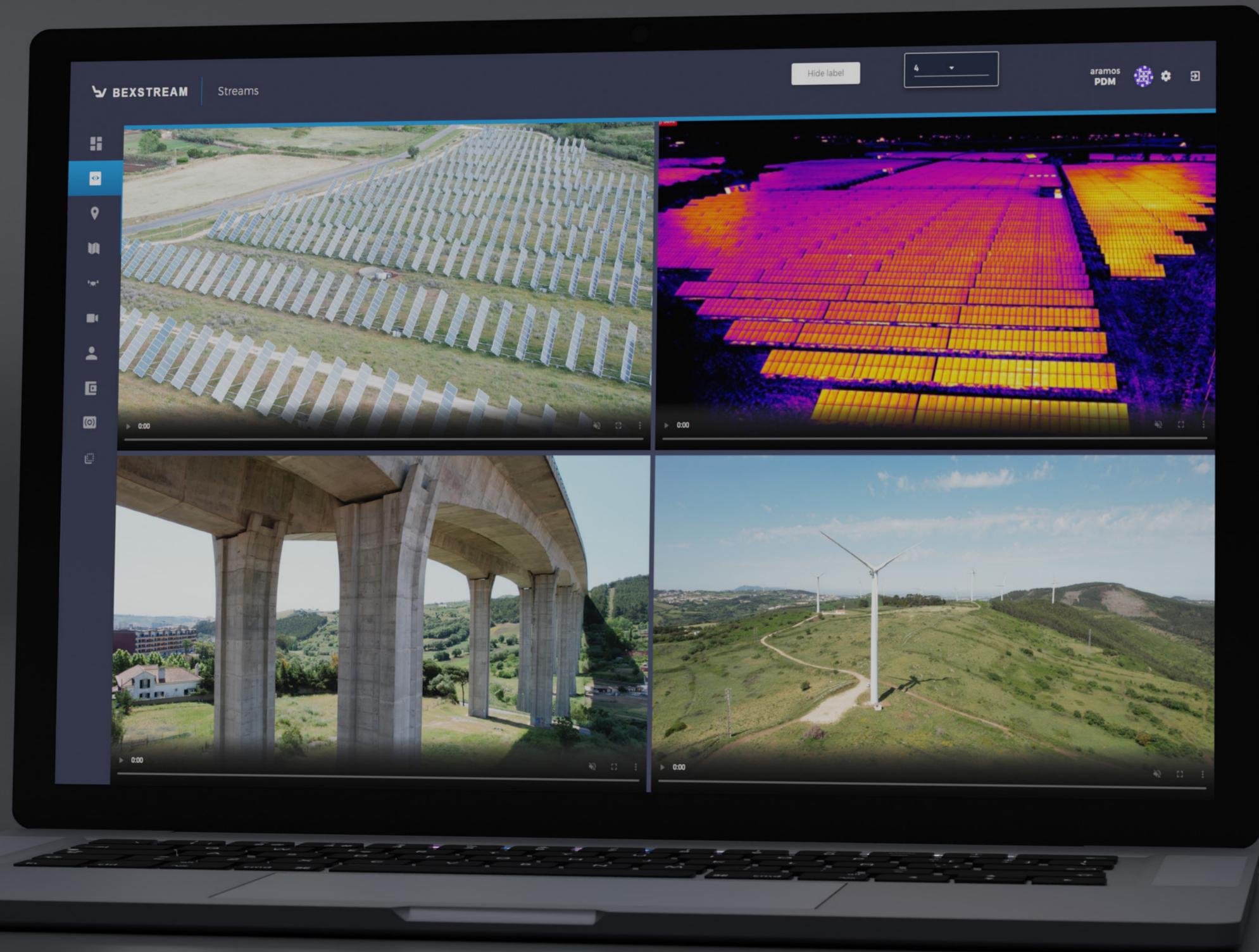
A single platform with a planning framework for creating, monitoring, or updating the mission with addition of a flight's history with details of all missions previously performed. Manage and control your UAVs and other aerial vehicles with only one platform.



beXStream®

Streams

Live video streams from multiple drones simultaneously from and to anywhere in the world.



beRTK[®]

Extreme precision for advanced operations

The beRTK is a fixed base station used to enhance the navigation accuracy of the drones. The correction signals are sent by a wireless channel to all the moving receivers around.



● 2 km range





www.beyond-vision.pt