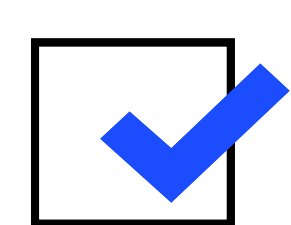




## >>> ABOUT US

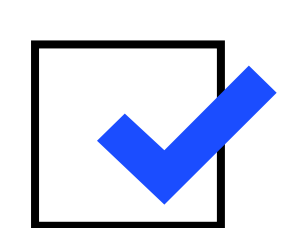
Quantum is a global technology partner delivering custom data analytics solutions for drone manufacturers and operators, as well as providing UAV operations simulation solutions.

## >>> DRONE EXPERIENCE



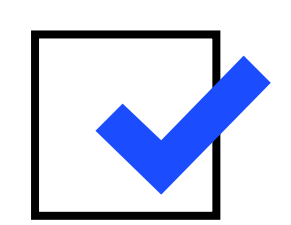
### **BIG DATA & PIPELINES**

processing gigabytes of drone data with modern cloud capabilities



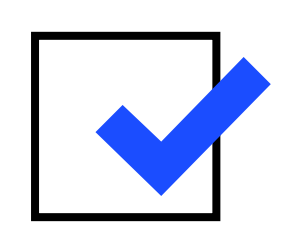
### **GPS AND IMU SMOOTHING**

for high precision analysis and accurate results



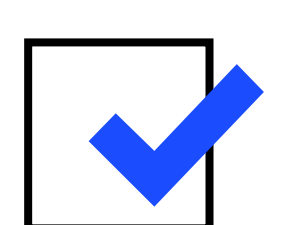
### **FIELD OPERATIONS**

image stitching, field route planning



### **DRONE NAVIGATION**

route calculation, drone management on the fly, environment monitoring



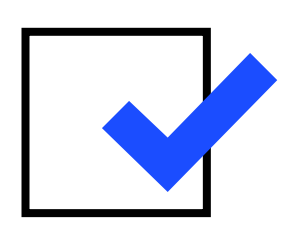
### **DATA PREPARATION**

preparing images for qualitative analysis



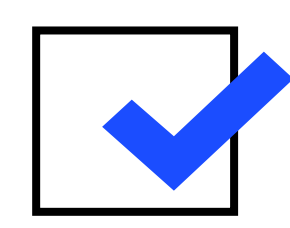
### **DATA ANALYSIS**

AoI detection, field segmentation, multispectral drone imagery processing



### **DRONE DECISION-MAKING**

drone data-based insights for immediate actions

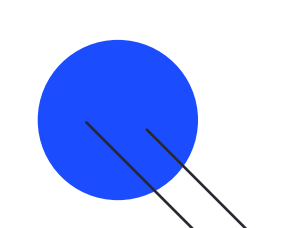


### **IMAGERY ALIGNMENT**

aligning imagery data with ground sensors & building orthomosaic maps

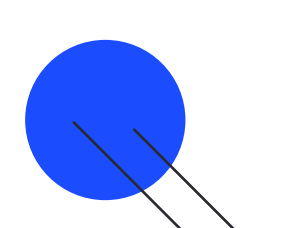
## >>> UAV OPTICAL NAVIGATION

The solution routes UAV back to its home point based on visual information without GPS and connection to the operator.



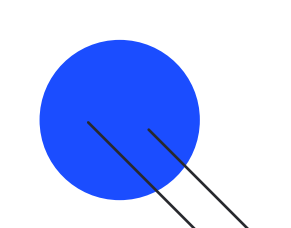
### **LANDSCAPE ADAPTIVITY**

(fields, forest, urban)



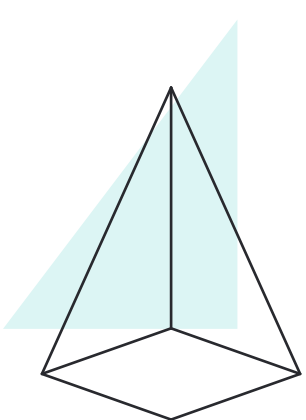
### **RETURN TO HOME**

accuracy <10m

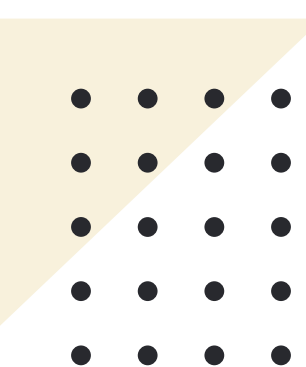


### **AUTOMATIC ROUTE SAVING**

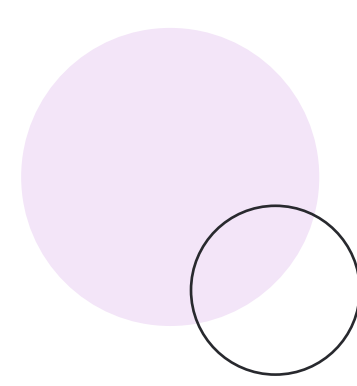
## >>> USE CASES



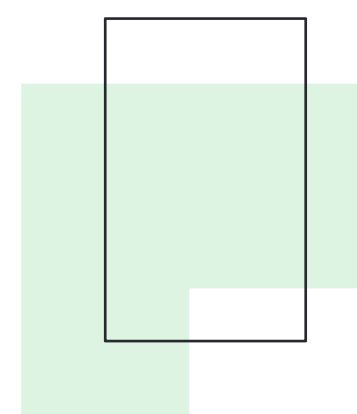
### **OPTICAL NAVIGATION SYSTEMS FOR UAVS**



### **EDGE COMPUTER VISION**



### **GEOREFERENCING PIPELINE FOR DRONE IMAGERY**



### **DRONE DELIVERY WITH ADVANCED ROUTE MANAGEMENT**

**CONTACT US** ↗