



## >>> ABOUT US

Quantum is a global technology partner delivering custom data analytics solutions.

Quantum's core focus is solving specific business challenges by **adopting emerging technologies and data science** to meet unique business needs and bring practical value.

## >>> BACKGROUND

**20+** **TOP-NOTCH**  
**ML & AI**  
engineers

**150+** **PROJECTS**  
successfully  
delivered

**15+** **YEARS**  
of leaders  
experience

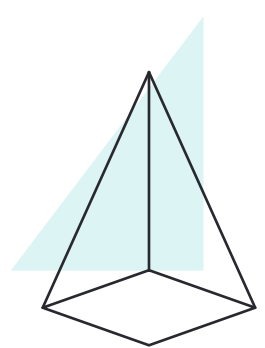
**200+** **ENGINEERS**  
in the network

## >>> DRONE EXPERIENCE

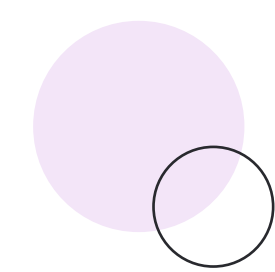
- ☒ **BIG DATA PROCESSING PIPELINES**  
(processing gigabytes of drone data with cloud solutions)
- ☒ **GPS AND IMU SMOOTHING**  
(for high precision analysis)
- ☒ **IMAGERY ALIGNMENT**  
(aligning imagery data with ground sensors)
- ☒ **DRONE DELIVERY & NAVIGATION**  
(routes calculation, environment monitoring, drone management on the fly)

- ☒ **DATA ANALYSIS**  
(for aoI detection, field segmentation, multispectral drone imagery processing)
- ☒ **PREPARING DRONE IMAGERY**  
(for qualitative analysis)
- ☒ **DRONE DECISION-MAKING**  
(drone data-based insights for immediate actions)
- ☒ **FIELD ANALYSIS**  
(image stitching, field rote planning)

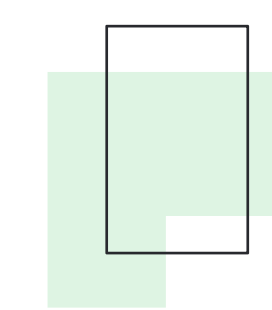
## >>> USE CASES



**DRONE DATA & ML  
FOR SMARTER  
AGRICULTURE**



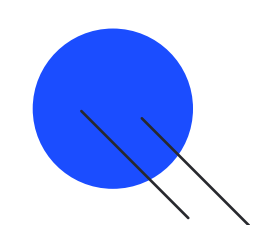
**GEOREFERENCING  
PIPELINE FOR  
DRONE IMAGERY**



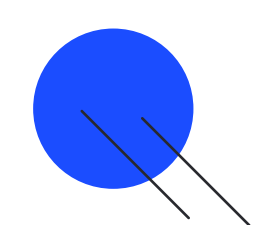
**DRONE DELIVERY  
SOLUTION FOR  
INTELLIGENT LOGISTICS**

## >>> UAV OPTICAL NAVIGATION

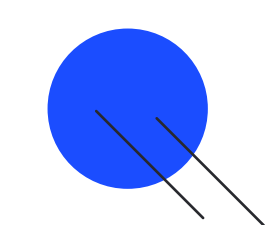
The solution routes UAV back to its home point based on visual information without GPS and connection to the operator.



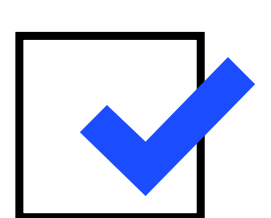
**LANDSCAPE ADAPTIVITY**  
(fields, forest, urban)



**RETURN TO HOME**  
accuracy <10m

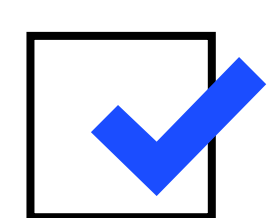


**AUTOMATIC ROUTE  
SAVING**



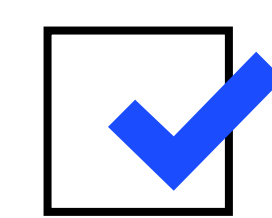
**TECHNICAL  
CHARACTERISTICS**

- UAV speed < 60 km/h
- UAV flight height 100-400 m
- Angles < 30 degrees
- Hardware: Raspberry PI, camera 2MP



**EASY INTEGRATION  
WITH UAV**

- Ready-to-use hardware with preinstalled software
- Installation into internal bas for Raspberry PI or in external box
- Integration with px4 control system



**PROFESSIONAL  
SERVICES**

- Integration with other UAV control systems
- Development of specific features for objects detection, missions' automation, etc.

**MORE ABOUT QUANTUM**

## >>> LET'S GET IN TOUCH

+38 099 703 51 11 Tanya Nesterenko

+38 050 400 57 72 Ruben Melkonian, CEO

[www.quantumobile.com](http://www.quantumobile.com)

[welcome@quantumobile.com](mailto:welcome@quantumobile.com)

