

# WATERfly

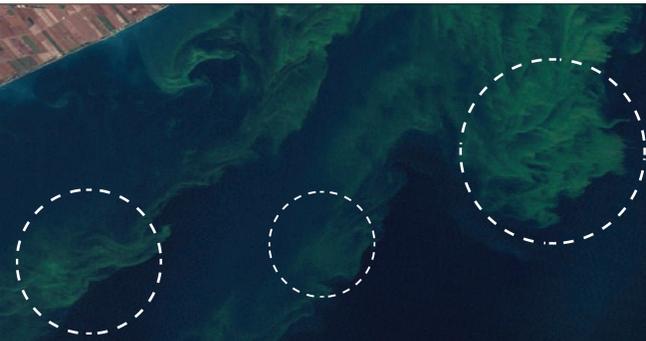
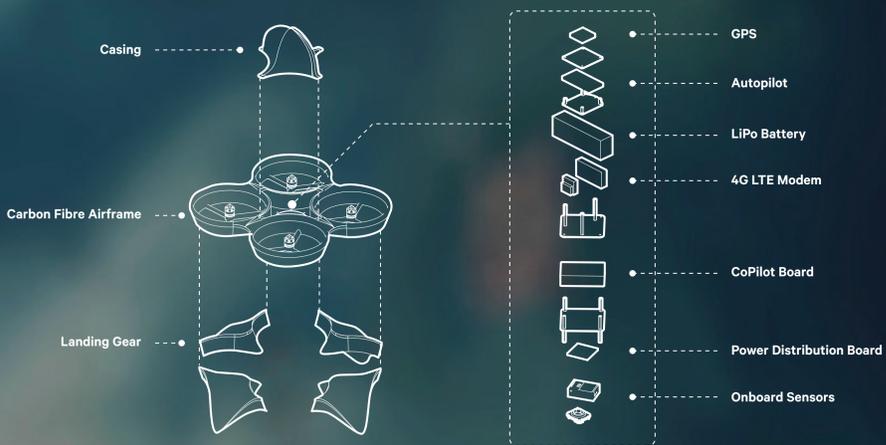
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Imaging Waterfly



Probing Waterfly



Waterfly scans and measures the quality of our waters, for example, detecting the presence of cyanobacteria.

It measures the evolution of its concentration accurately through space and time using a network of moving sensors that aim the right spot to always take the best measurements. By scanning the water with an infrared camera, a flying robot detect the presence of algae before sending other robots to get a precise reading of the desired value.



Low Cost



Efficient

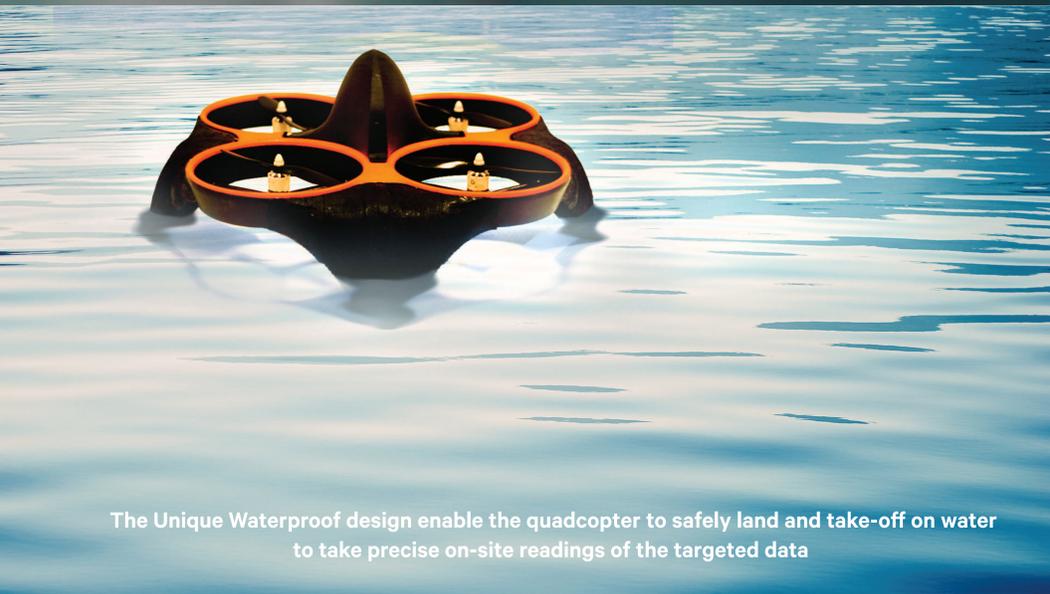


High Resolution

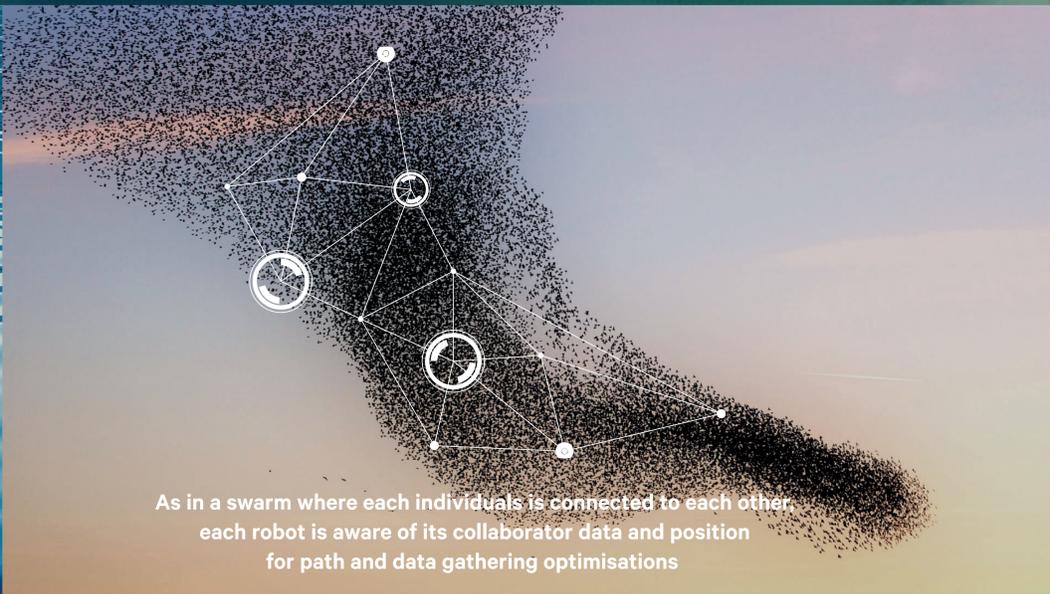


Realtime

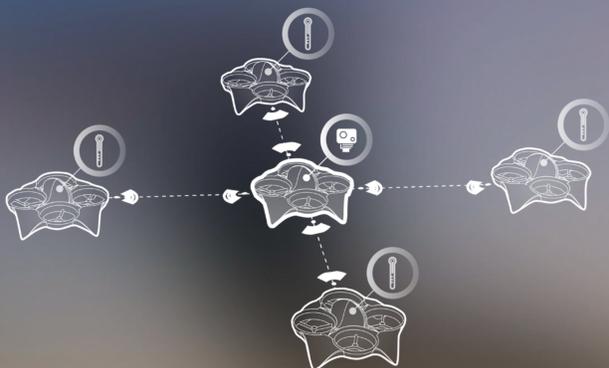
By limiting the amount of high quality probe to scan an area and target the best sampling points, this system has an unprecedented level of efficiency and precision while keeping an affordable price



The Unique Waterproof design enable the quadcopter to safely land and take-off on water to take precise on-site readings of the targeted data



As in a swarm where each individuals is connected to each other, each robot is aware of its collaborator data and position for path and data gathering optimisations



Waterfly uses innovative drone-to-drone communication to fly and sense as an insect-like swarm using its embedded 4G connectivity for real time and low latency data transfer



The cloud enabled system combined with real-time computer vision and water sampling for algae detection let the user monitor the mission through the online user interface