



>>> ABOUT QUANTUM

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

>>> ABOUT CORVUS DRONES

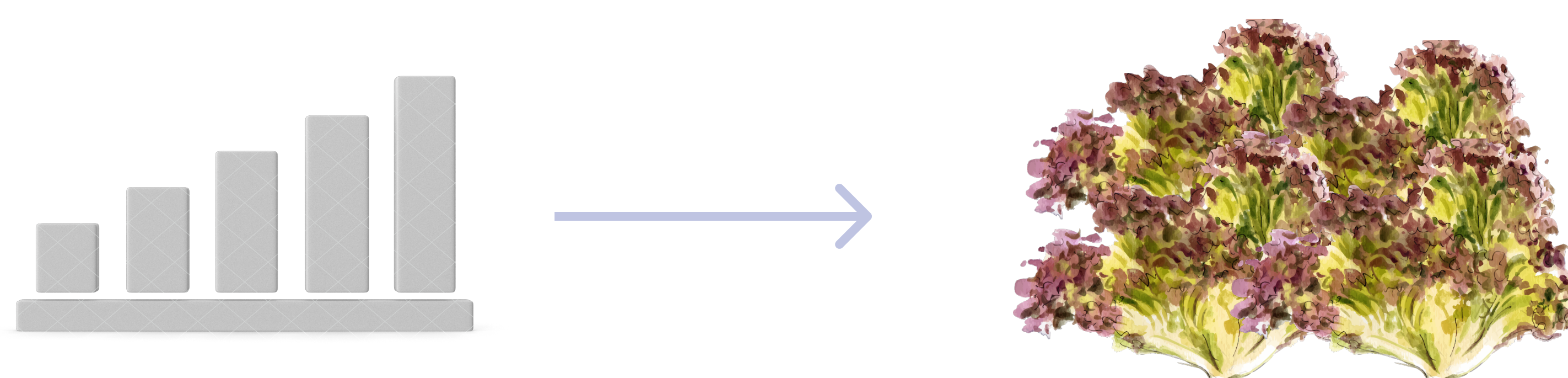
Corvus Drones specializes in greenhouse crop monitoring with fully **automated flying drones equipped with various sensors and cameras**, enabling more flexible cost optimization.

>>> INTELLIGENT GREENHOUSE AUTOMATION

24/7 AUTOMATED GREENHOUSE MONITORING

Our solution minimize human involvement in executing plant growth & harvesting while optimizing greenhouse management and enhancing production.

The system gathers information from different sources (camera-equipped drones, sensor data, and manual input from the grower) and transforms it into advice on optimizing the greenhouse to reach defined goals.



>>> WHAT OUR SOLUTION MONITORS

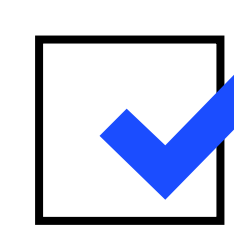
The system is able to **observe the low-growing plants' (like pot plants, orchids or lettuce) current state** and deliver advice based on the following parameters:



**INTERNAL
MICROCLIMATE**

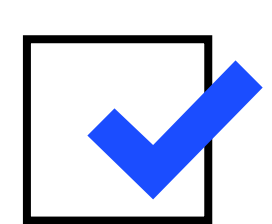


**CONDITIONS
OUTSIDE**



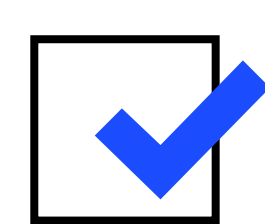
**VISUAL CONTROL
BY DRONES**

>>> OPERATING CYCLES



**DAILY-BASED
DECISIONS**
EVERY 24 HOUR

- growing strategy for the next 24h based on data from drones & sensors
- greenhouse ecosystem control to reach the defined goals



**REAL-TIME
OPTIMIZATION**
EVERY 15 MIN

- corrective actions based on the current plant state and rules set by a grower

