

## Optimise your tree crop performance

New Zealand is a diverse market in terms of grower requirements in the permanent and speciality crop sector. A service which offers valuable, accurate and actionable insights into the most important tree-related analytics is fundamental to ensuring quality yields for all tree crop farmers and stake-holders.

Aerobotics, an aerial imagery and data analytics ag-tech company is here to assist farmers with tree health and early-stage stress and canopy size metrics on a per tree level using state of the art machine learning algorithms enabled by multispectral drone imagery. Farmers are able to track changes in these metrics over time and between scans to monitor the efficiency of mechanical or chemical interventions or seasonal influences. Some of the many features on offer include our highly accurate Tree Count tool, Missing Tree reports, Tree Size & Health grouping software and an award winning scouting service that guides you to an area of interest to verify if and what corrective action is needed.

For New Zealand citrus farmers, we've developed a Yield Estimation product, for real-time fruit size and colour distribution, This allows farmers to provide exporters with harvest estimations, to better understand and plan their marketing strategies, and to mechanically or chemically manipulate sizes at harvest if required.

## SnapShot

200 K Active Hectares

18 Active Countries

1 M Fruit Processed

81 M Trees Processed

## How our technology works

Your whole farm is digitally captured, providing you with insights into every orchard boundary, variety, hectares, number of trees and missing trees.

Farmers have access to in-depth analytics including the health, size and GPS location of each tree. This enables them to conduct scouting routes based on anomalies found on the software, export variable rate maps and generate CSV reports for stakeholders.

## Key Grower Challenges:



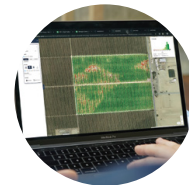
### Labour Planning

Traditional scouting can be both challenging and costly. Undetected anomalies can cause severe damage when scouting is not targeted, underperforming trees are not detected at the right time and place, and scout reports are inaccurate or lost.



### Input Planning

Not being able to accurately plan and calculate fertiliser or chemical inputs can become extremely costly to any farming business. Without the right information, it is difficult to allocate resources to specific blocks or areas on the farm that require attention.



### Production Planning

An orchard with variance in tree health or canopy size can be challenging to manage, where incorrect production planning figures can have costly implications. Profits can be lost without tools for simpler planning and accurate production figures.

