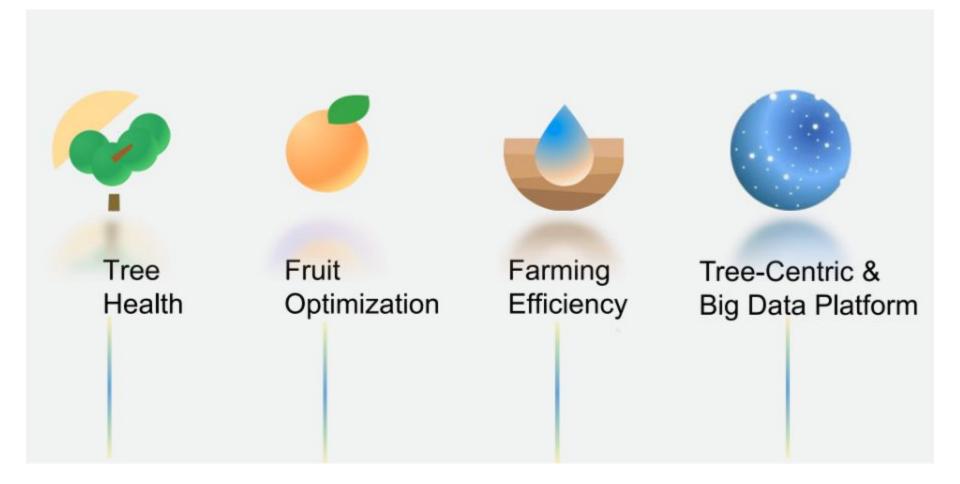


ZIM Agri-Photonics Online Conference September 8th, 2020



Cluster of photonics Industries in israel







Objectives

- Build a 'per-tree' intelligence network for millions of trees, world-wide and over time
- Increase yield by tracking tree-health, detection of diseases and pests, fruit production, identifying weak trees
- Boost growers' and industry ROI by leveraging digitally transformed agronomy, operations and decision-making



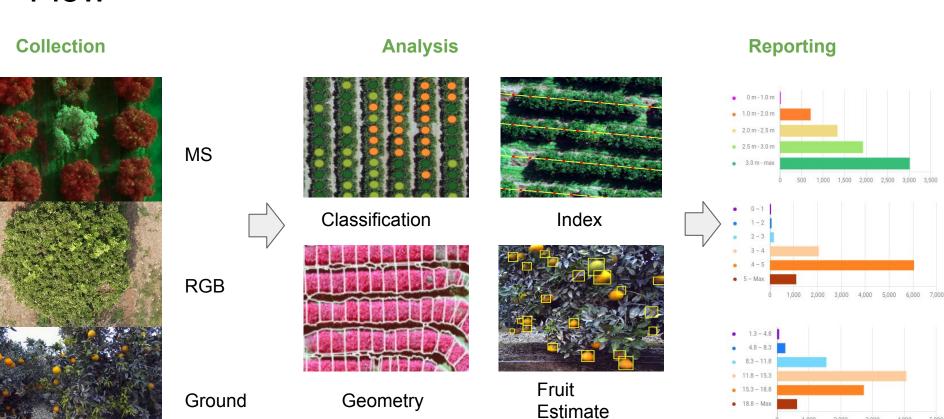
Input Data

- Multi-layered data collection and analysis campaign
- Different frequency per data layer
- Very high resolution RGB and multi-spectral data



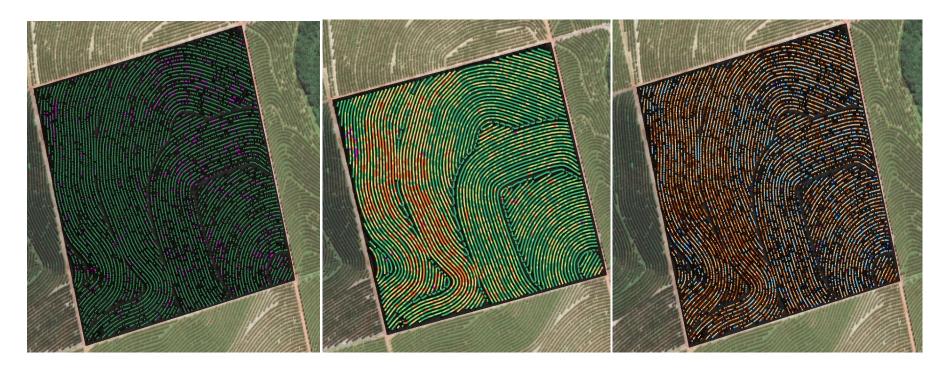


Flow





Visual Reporting



Pest Grove spacings Tree geometry



Tree Health

- Detect non-producing trees
- Detecting weak and under-performing trees
- Replant growth evaluation

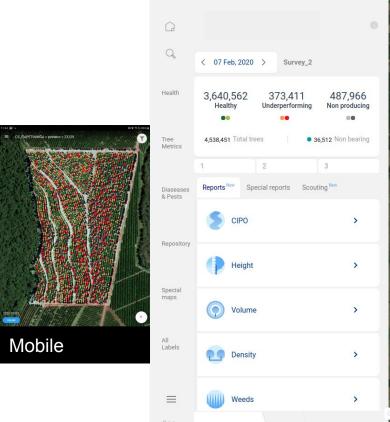


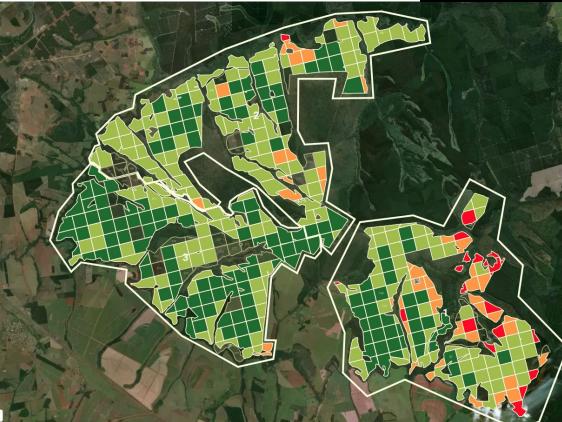




Farm/Zone Level

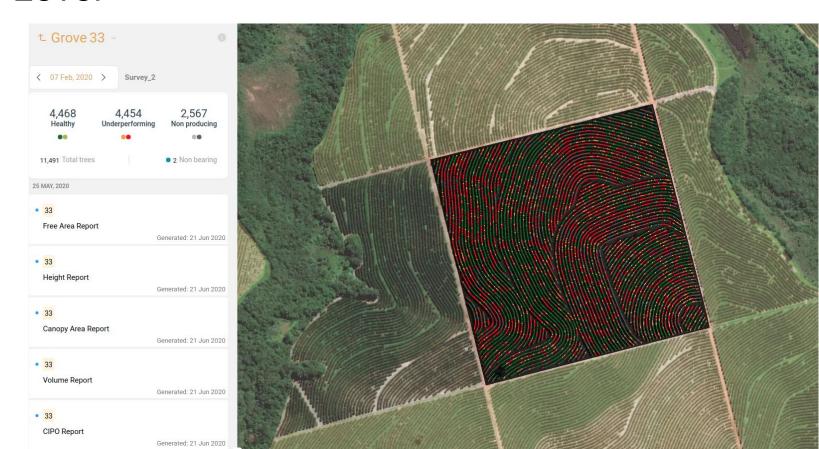
Web







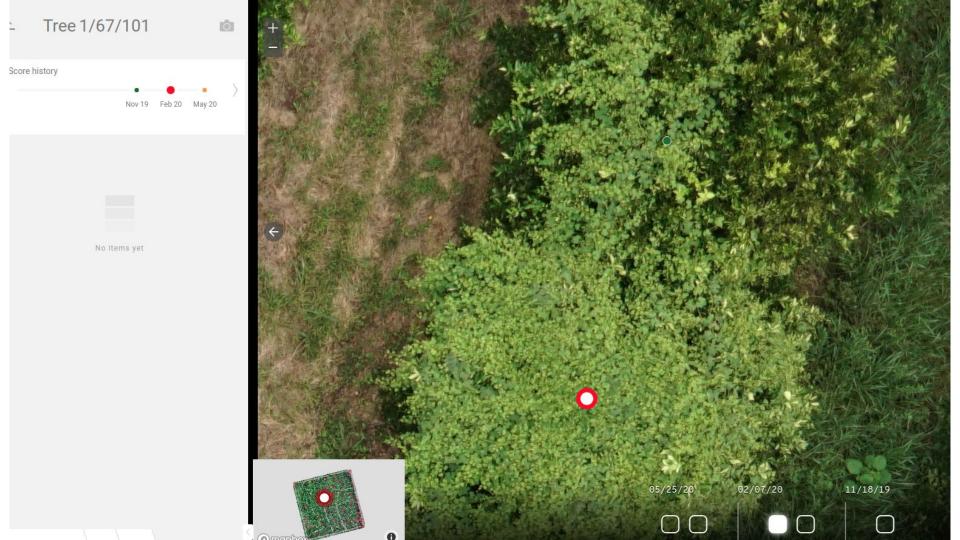
Grove Level





Tree Level



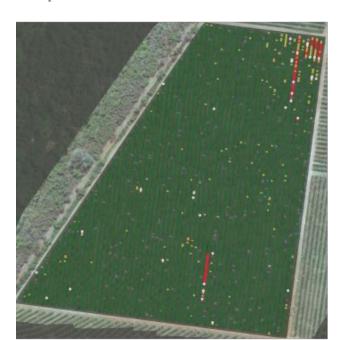




Farming Efficiency



September 2019



February 2020





@Scale

- Countries
 - o USA
 - o Brazil
 - South Africa
 - Chile
- Crops
 - Citrus
 - Olive
 - Almond
 - Hazelnuts
 - Avocado



- Area covered
 - o Over 50,000 Ha



- Trees
 - o 30,000,000 trees covered



- Data
 - Roughly 1.5TB each day



