BrandCrowd

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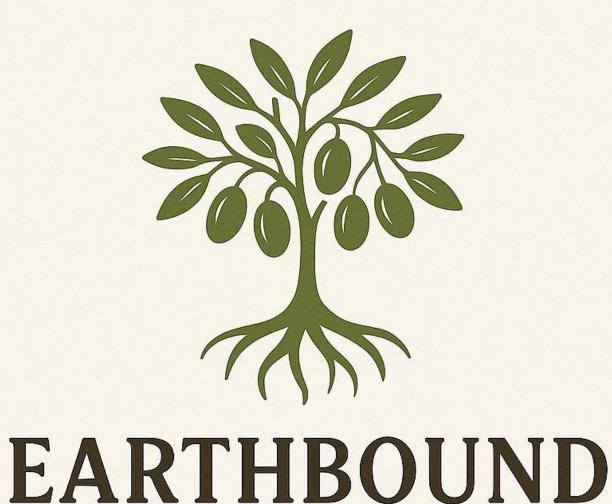


Brando

BrandCrowd BrandCrowd UAVSOLUTIONS

INNOVATIVE PRECISE EFFECTIVE

BrandCrowd



HORTICULTURE

Drones in the Olive Grove







INSIGHTS



INNOVATION



Introduction

Challenges in olive orchards:

- Water management
- Reducing chemical input
- Early detection of stress Insect Pests and Diseases
- Responding to pests and disease when ground access is difficult
- Time and labour efficiency
- Costs
- Bio security



Why Use Drones?



FAST DATA COLLECTION ACROSS LARGE AREAS



NON-INVASIVE MONITORING AND CHEMICAL APPLICATION



REAL-TIME ACTIONABLE INSIGHTS

Multispectral Surveys



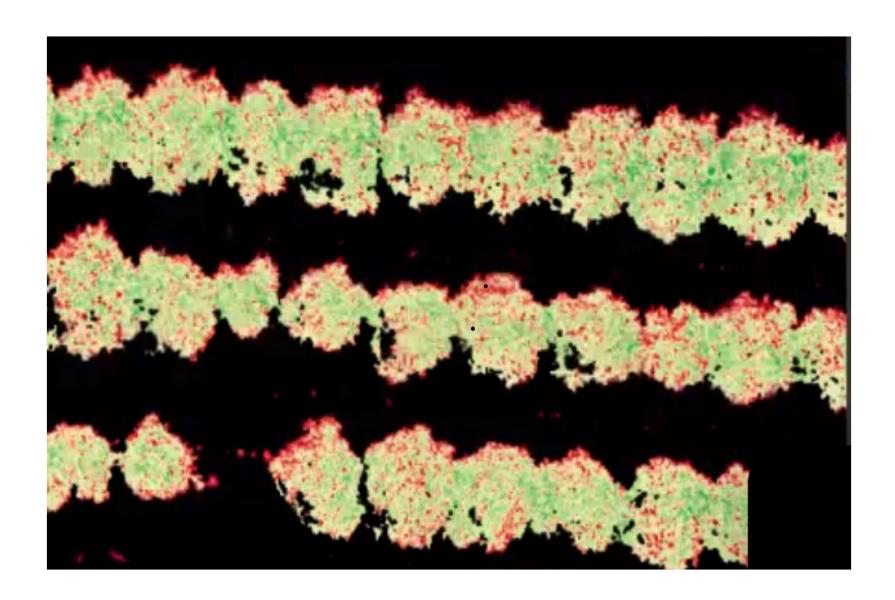
DETECT PLANT STRESS
BEFORE SYMPTOMS APPEAR

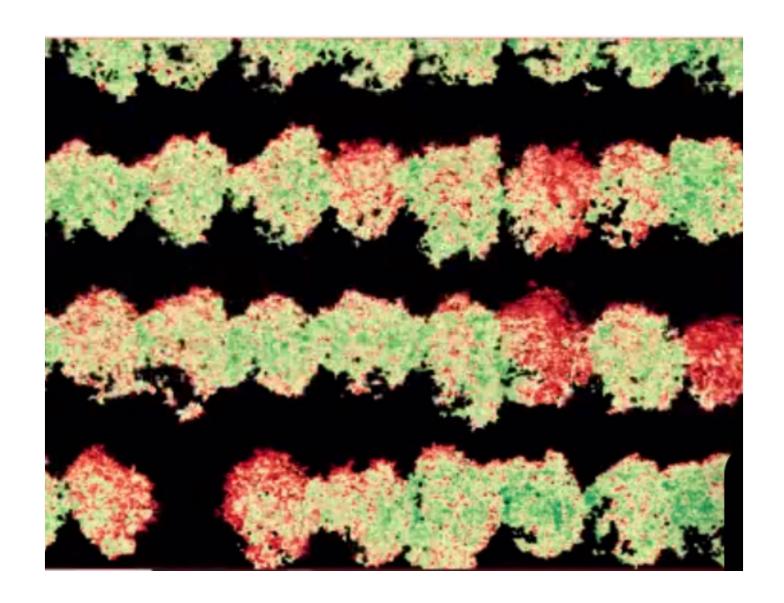


IDENTIFY NUTRIENT DEFICIENCIES



GENERATE NDVI AND VEGETATION HEALTH MAPS





Water Efficiency



DETECT WATER
STRESS EARLY



OPTIMIZE IRRIGATION SCHEDULES



REDUCE WATER WASTE AND COSTS



Reduced Chemical Use



TARGETED SPRAYING USING DRONE MAPPING



VARIABLE-RATE APPLICATION REDUCES WASTE



LOWER CHEMICAL RUNOFF IMPROVEING ENVIRONMENTAL / SOIL HEALTH

Other Benefits



LOWER LABOR COSTS
THROUGH AUTOMATION



CONSISTENT, REPEATABLE DATA COLLECTION



INTEGRATION WITH AI AND FARM SOFTWARE

Economic & Environmental Impact



REDUCED INPUT COSTS (CHEMICALS & WATER)



IMPROVED YIELD & QUALITY



ROI IN AS LITTLE AS 6– 12 MONTHS

Conclusion

Drone technology = smarter olive farming

Benefits: Efficiency,
Profitability, Sustainability

Next step: Implementing UAV precision agriculture solutions

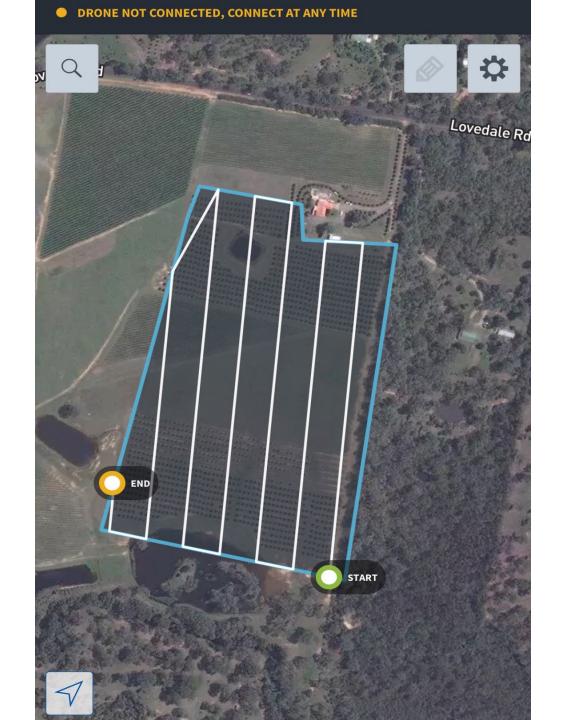
Applications In the Grove





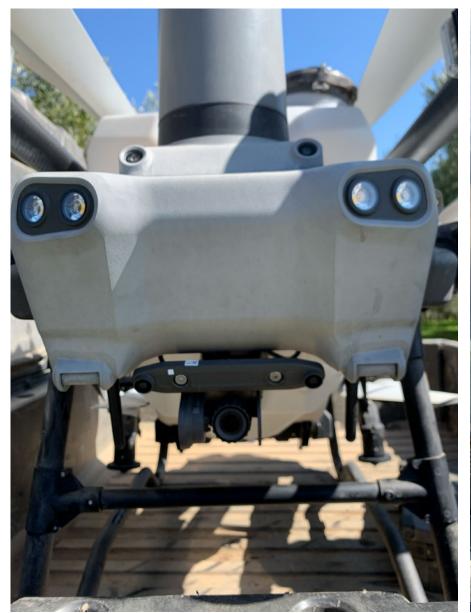








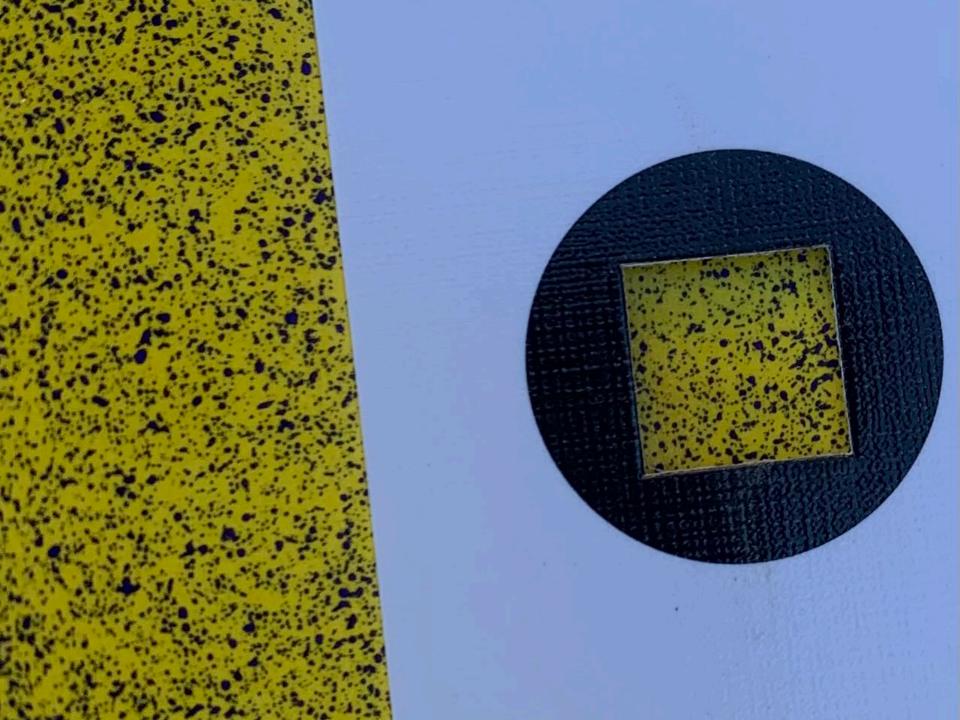


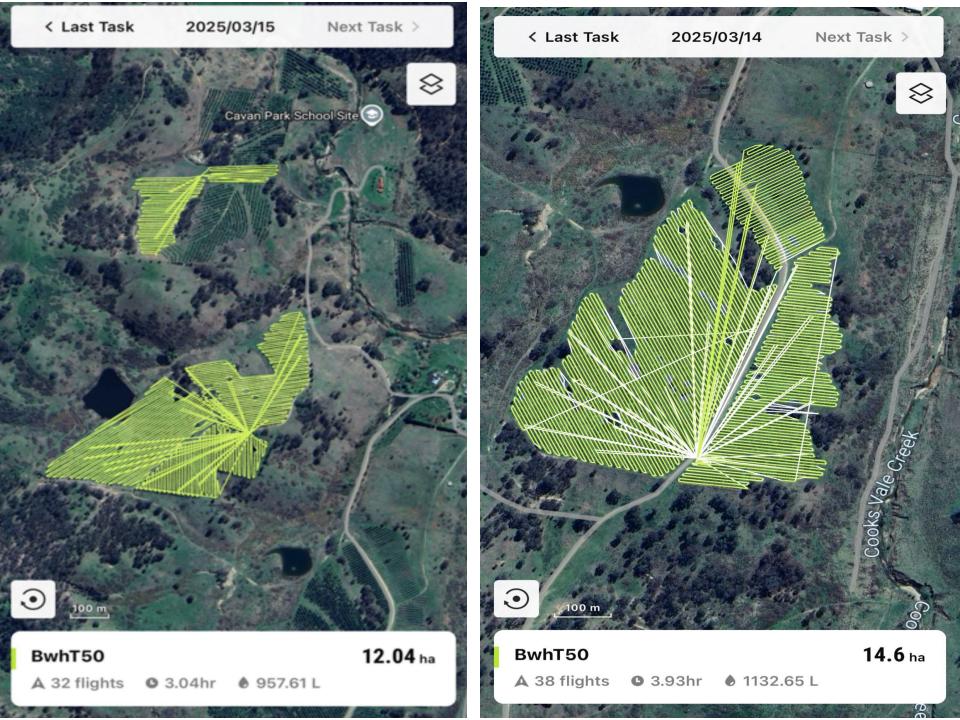








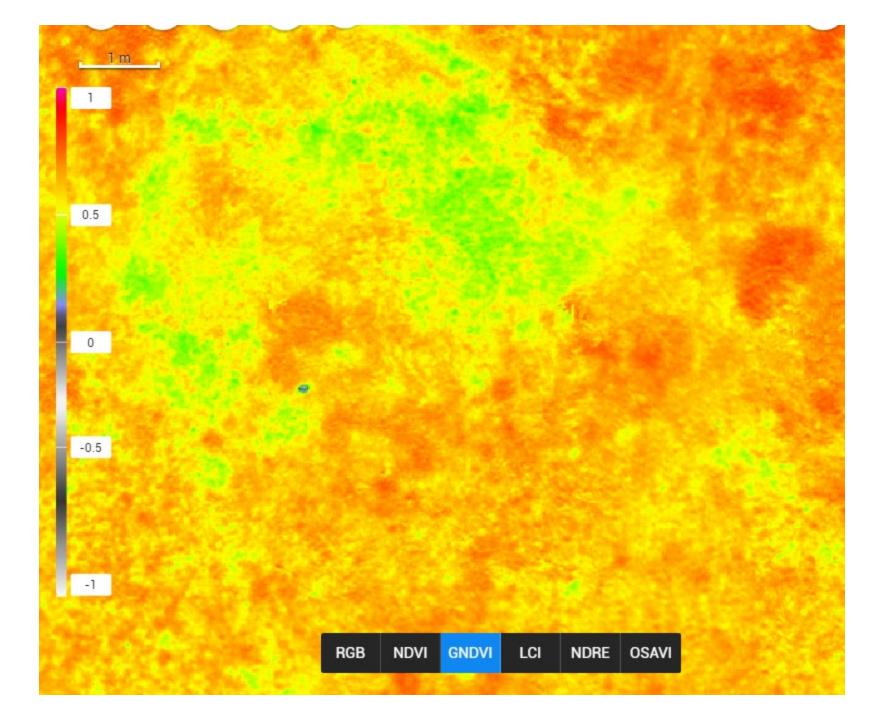


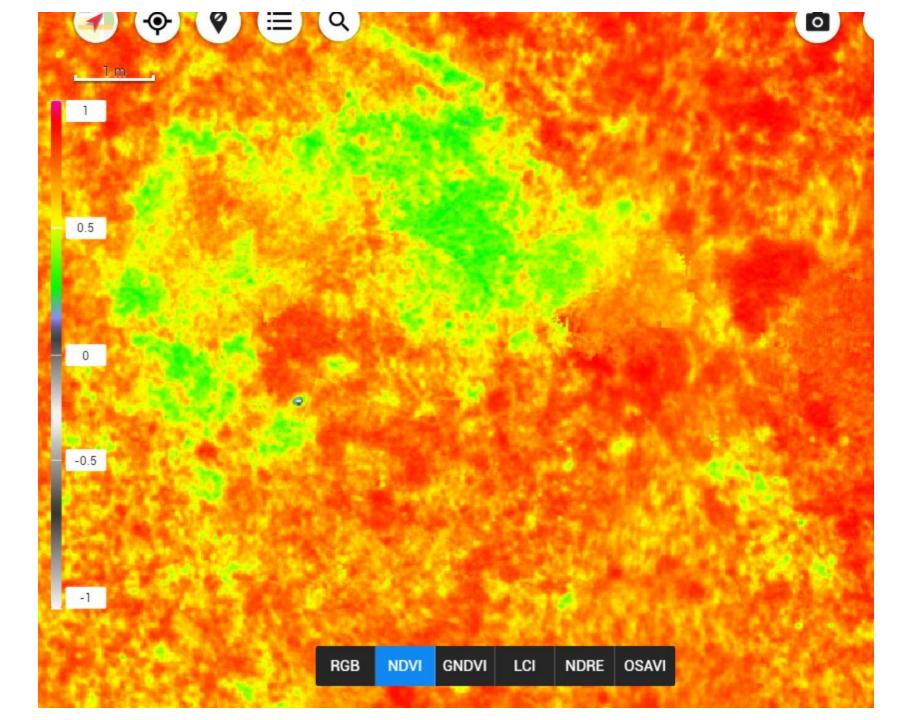


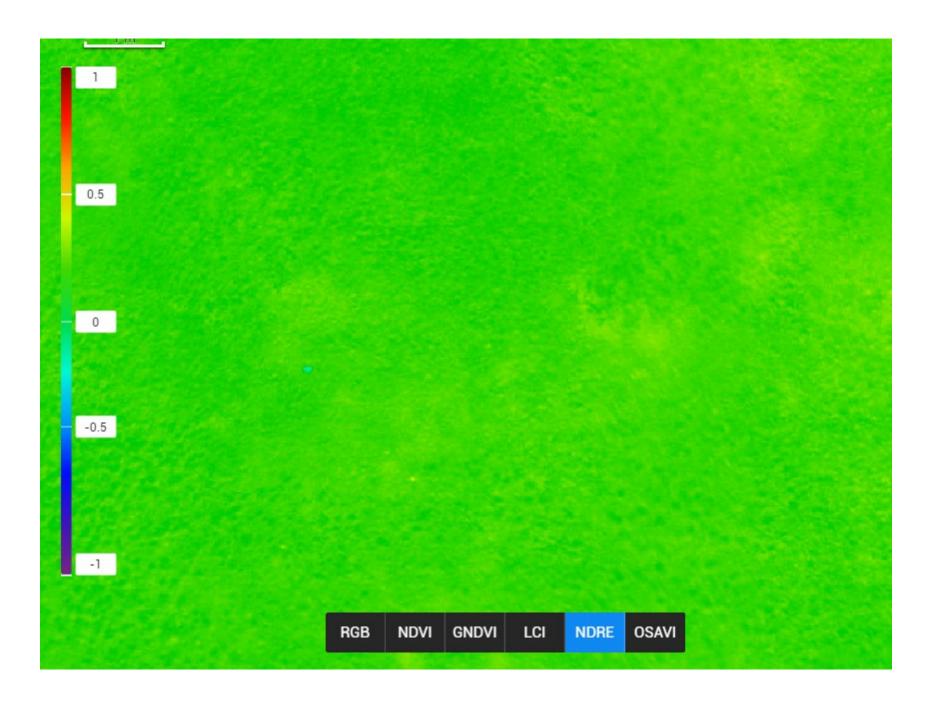
Olive Ag Chemicals – Summary Reference

Compiled May 2025 — based on APVMA PUBCRIS & Permit Portal, and Australian Olive Association guidance. Always verify current permits and labels, check state rules, WHPs, and MRLs for oil vs table olives.

| Category | Chemical / Trade | Target | WHP | Aerial/Drone |
|---------------------|--|------------------------------------|--|---------------|
| | Names | Pests/Diseases | | Application |
| Insecticide | Alpha- cypermethrin (Sumi-Alpha Flex) | Olive lace bug | T1 oil; T5 crude oil | Yes |
| | Pyriproxyfen (Admiral, etc.) | Black olive scale | 28 d; MRL 1 fruit, 3 <u>oil</u> | Yes |
| | Sivanto Prime (flupyradifurone) | Lace bug, black scale | 14 d | Yes |
| | Fenoxycarb (Insegar WG) | Black scale | 56 d | No |
| | Paraffinic oils (Trump, SACOA Biopest) | Scales | 1 d | Yes (limited) |
| Fungicide | Copper products (oxychloride, hydroxide) | Leaf spot, anthracnose, knot | 1 d | Yes |
| | Azoxystrobin 250 SC (Amistar) | Anthracnose | 21 d | Yes |
| | Luna Experience (tebuconazole + fluopyram) | Anthracnose | 14 d | Yes |
| | Mancozeb (PER88358) | Anthracnose | 14 d | Yes |
| | Aero (PER87332) | Anthracnose | N/A | Yes |
| Growth Regulator | Ethephon (PER14460) | Fruit loosening | N/A | Yes |

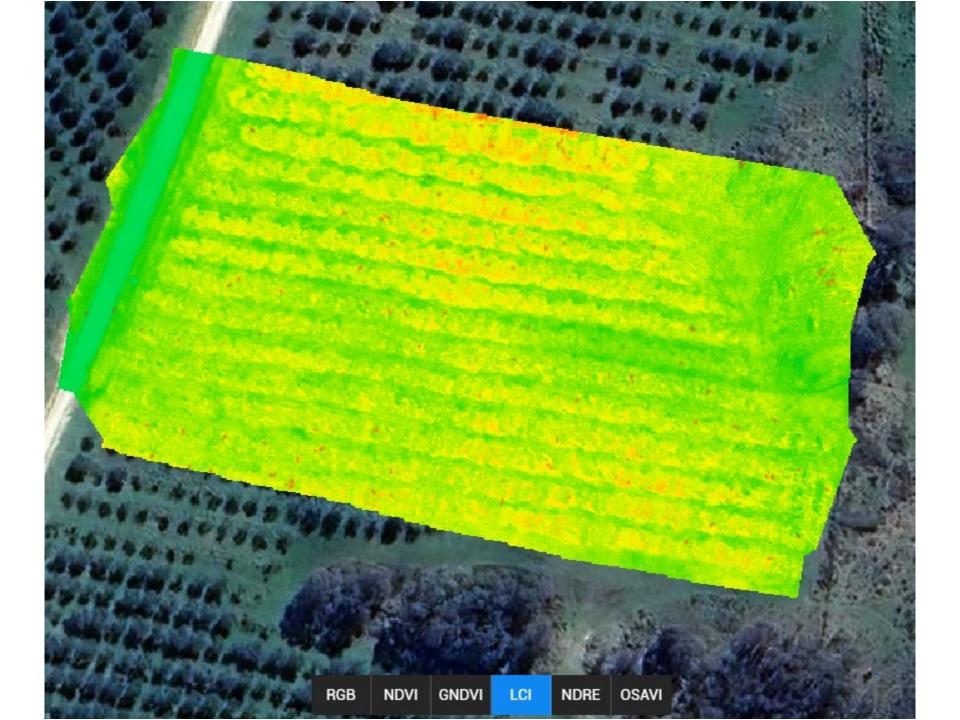


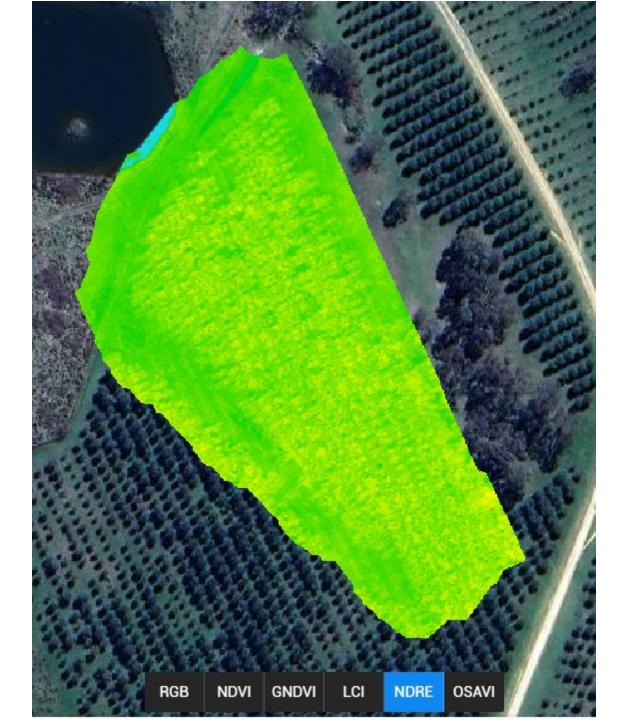


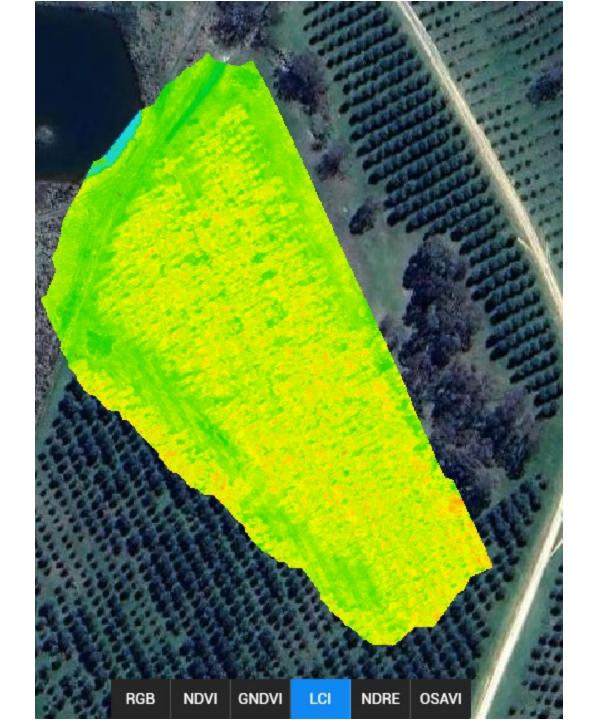


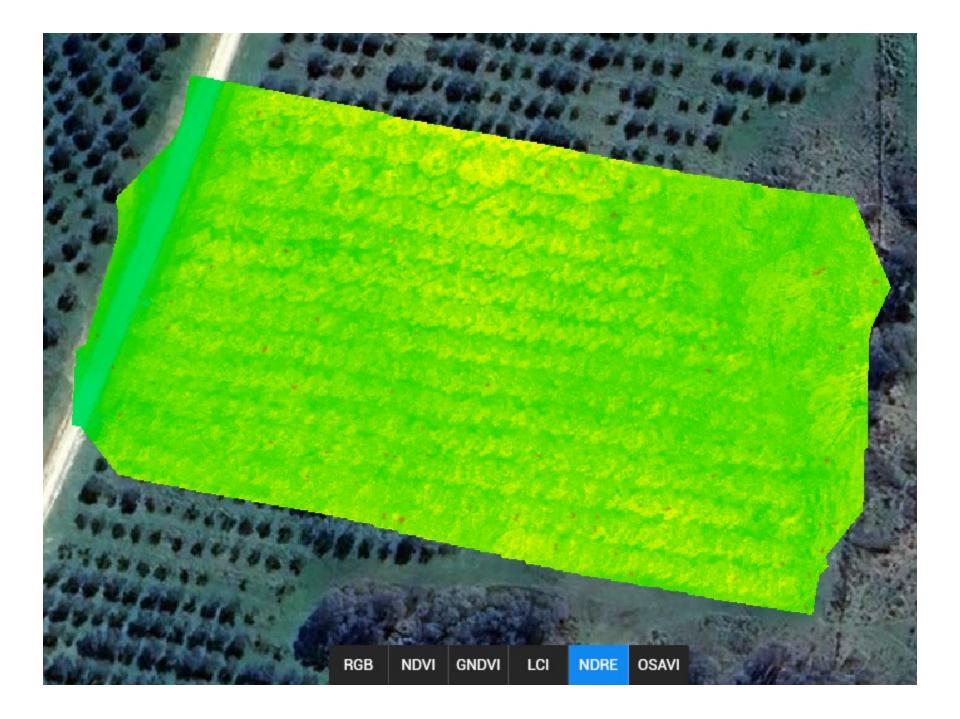
0.5 NDVI GNDVI LCI NDRE OSAVI RGB













Webinar: Drones - Current Australian Legislation & Berry Industry Issues

youtube.com

- ☐Bio security. Xylella and other threats out break and response
- ☐ Monitoring. Bio monitoring. "BioScout"

- ☐ Harvest yield estimates. Flowering percentage
- □Pollination aid. Air turbulence In canopy's



