

Future Drought Fund Advisory Committee Regional Visit - Victoria Thursday 29th November 2022 Warren Lloyd – Dried Fruit Farmer and SuniTafe Smart Farm Advisor Nick Moore - Education Delivery Manager - Primary Industries Sunitafe.edu.au

Sunitafe

SuniTAFE SMART Farm - Cardross

24 Hectares divided into different sections growing:

Best practice methods

- Citrus Mandarines, Oranges, Tangelos
- Grapes (Dried and Wine)
- Avocados
- Vegetables

Innovation at large

- Almonds
- Olives

Emerging industries

- Dates
- Industrial Hemp



Excellence in Agricultural Education



1970 - CSIRO demonstrate new mechanical harvester

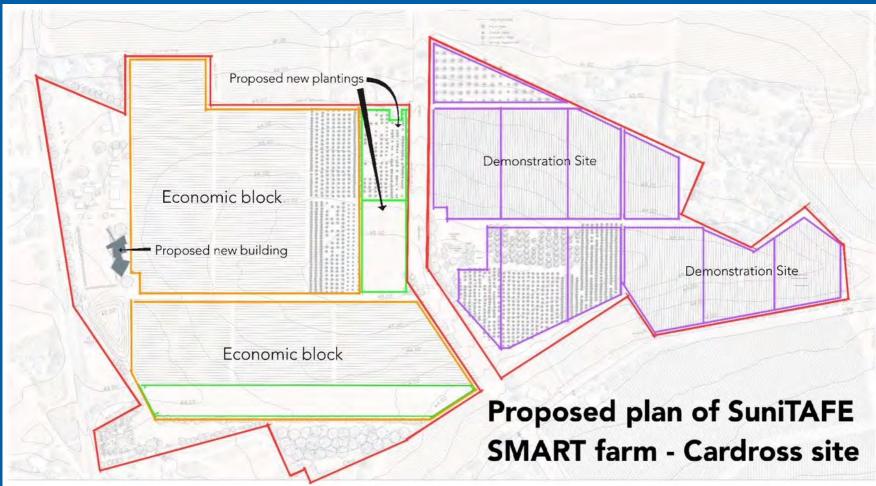
- Working farm
- Educational facilities
- Providing local youth with agricultural education for more than 50 years
- Tradition of promoting innovation in horticulture
- SuniTAFE 2019 Victorian and National Training Provider of the Year Awards

Working Farm



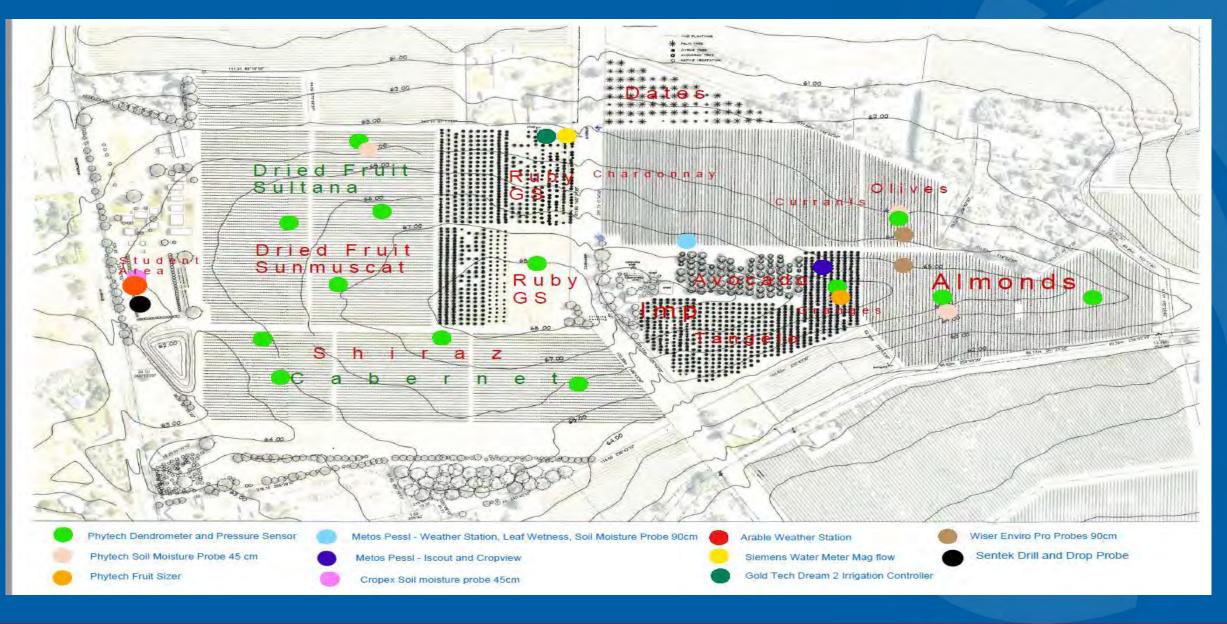
 Traditional Methods
Existing crops in new ways
Emerging crops

SuniTAFE farm divided into two distinct areas



Economic block – comprising best practice dried fruit, wine grapes and Citrus
Demonstration site – divided into hectare lots for individual research projects

Demonstration Site



Sensors and IoT



Dendrometers





MET



Soil moisture probes

SenTek Drill and Drop

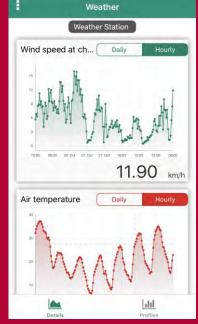
- For short-term use, such as the monitoring of vegetable crops, due to the fast and easy install and extraction techniques
- Moisture, salinity and temperature sensors at every 10 cm (4 inches) depth
- Buriable to any depth
- Sends data via Bluetooth to phone





METOS ANZ





9:49 am

Leaf wetness sensor

Weather Station

- Leaf wetness
- Soil moisture
- Crop View Camera
- Pest View Camera



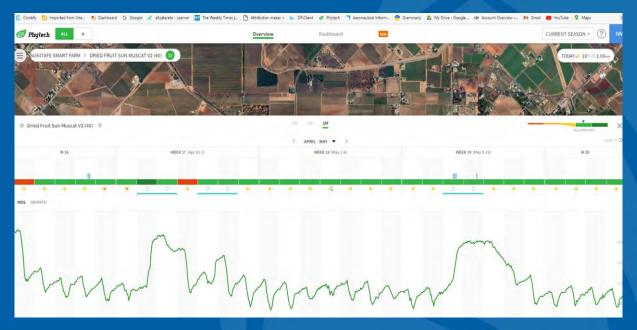


Phytech

- First Real Commercial Dendrometer
- Pressure sensors
- Soil Moisture
- Easy-to-use platform
- Subscription based
- Company owns the information

Phytech

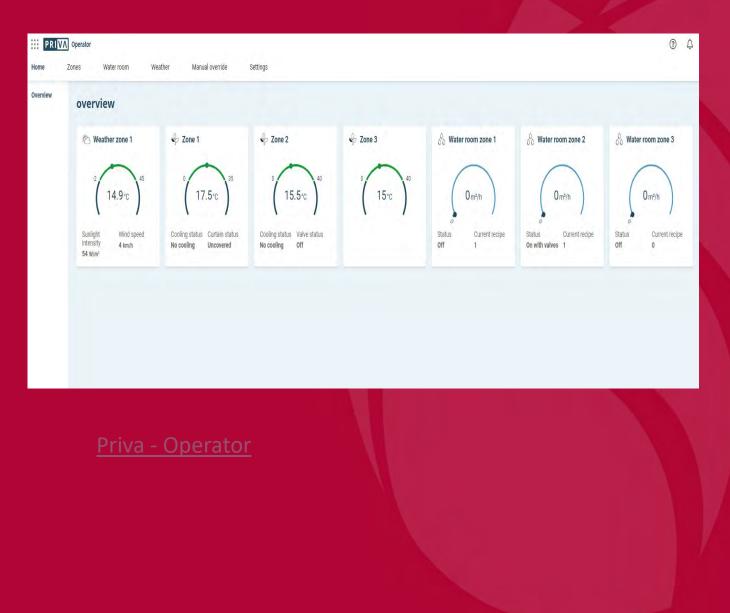
• Weather prediction





- Full Irrigation control
- Weather control
- Weather monitoring
- Soil Moisture monitoring
- Easy to use Platform

Priva Operator System



Crop X – Farm Management Platform

- Same method as capacitance probe
- Easy to Install
- Platform allow good
- Uses cellular signal
- Subscription based
- Company owns information
- Weather prediction





Drone Technology



- 45 minute flight time
- 8km range
- Mapping program prescribed map on computer and controls flight path
- Multi-spectrum camera
 - NDVI (Normalised Difference Vegetation Index)
 - Infra red, pick up growth irregularities

SuniTAFE SMART Farm

Excellence in Agricultural Education - Promoting Innovation - Building Partnerships





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