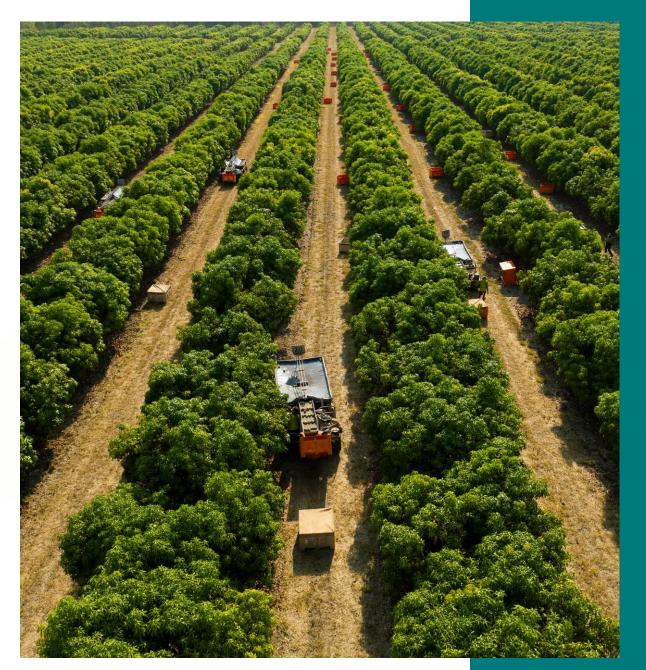
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# Australian Horticulture Tree Crop Mapping

Lucy Noble, Head of Industry Insights

22 08 2024





## Section 01

# **Crop Mapping**

### **Crop Mapping at a glance**

# >160,000

Approximate hectares of horticulture mapped on the Australian Tree Crop Map in August 2024.

# \$2.6 billion

Total production value of Australian horticulture mapped.

# 16 per cent

of the horticulture sector (by value) is mapped using satellite imagery.



#### What are we talking about?

Accurate horticulture category mapping, from the individual block to the national level





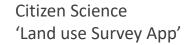
Industry and government data





Aerial photography

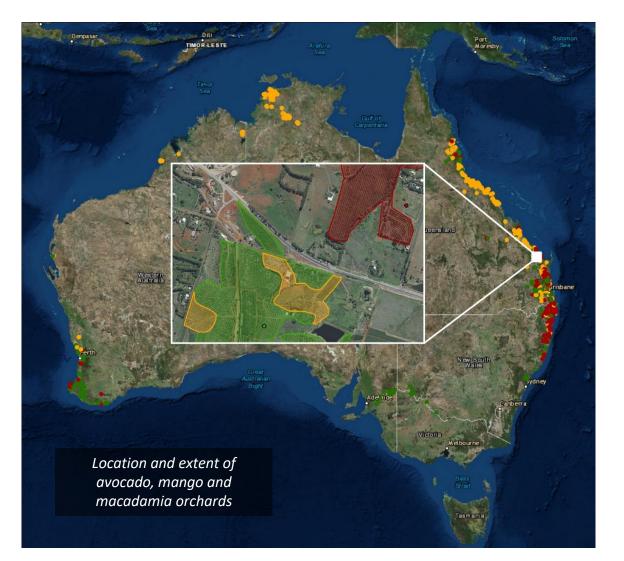








Expert knowledge & industry engagement



#### **Biosecurity**

Regional biosecurity preparedness and response

#### **Natural Disaster**

Natural disaster planning, response and policy

#### **Production Area Data**

Foundational data layer for further application of current and emerging technology

Minard Southerstein Minarden

#### **Industry Planning**

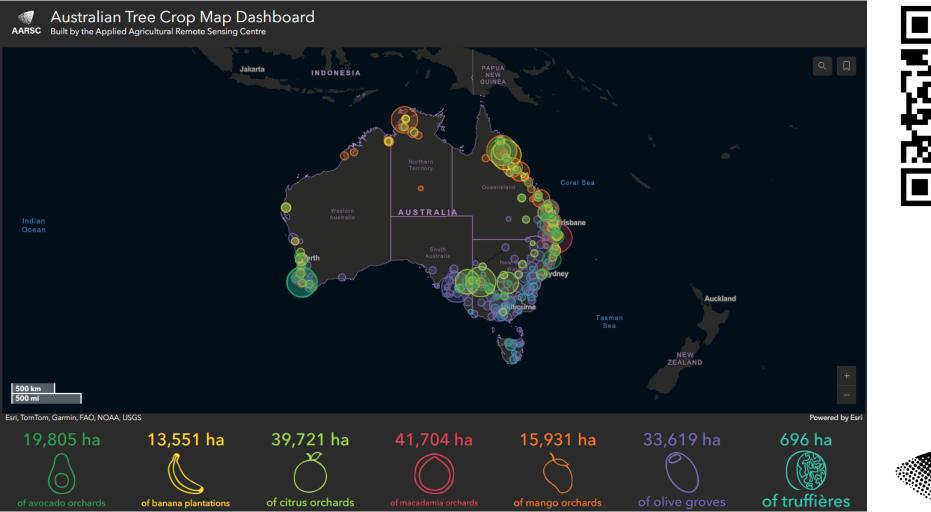
Data to support industry decision-making, planning and monitor industry trends & forecasts



## Section 02

The Australian Tree Crop Map Dashboard

## **Australian Tree Crop Map Dashboard**

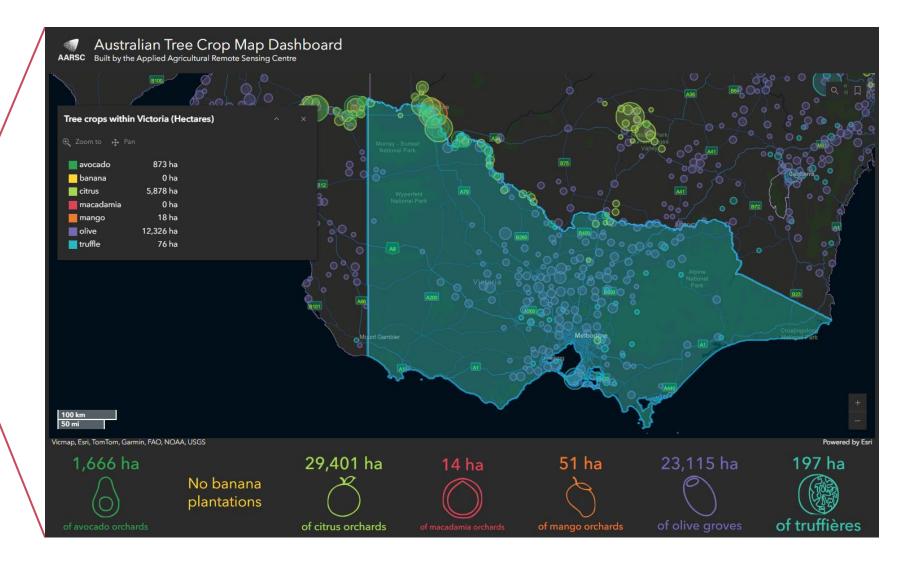






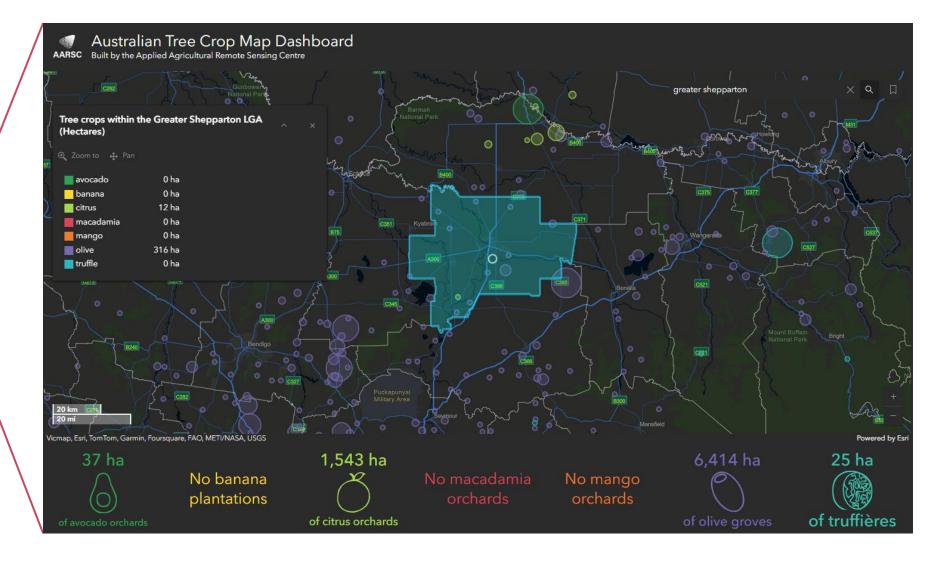
### Tree Crop Map – State level





#### Tree Crop Map – LGA level





## Tree Crop Map – Polygon level (>1ha)





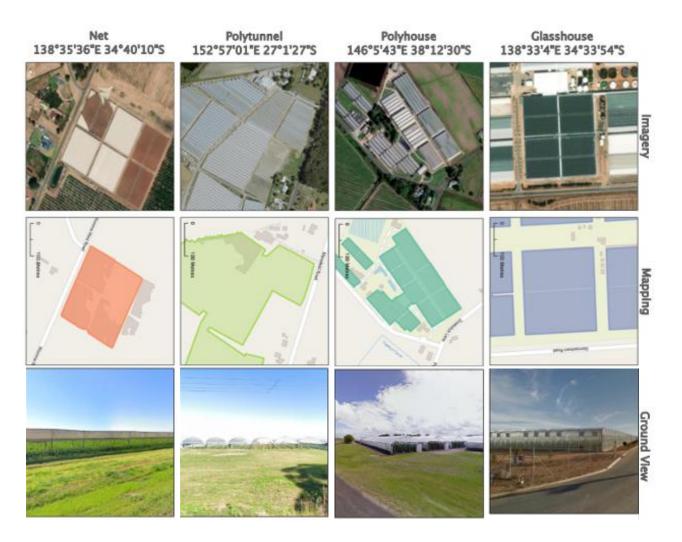
## **National Map of Protected Cropping Systems**

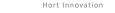
# National map of all protected cropping systems in Australia

• Publicly accessible imagery.

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- Published PCS dashboard in July 2023.
- Deep learning model developed.
- Supported Varroa mite response in NSW.



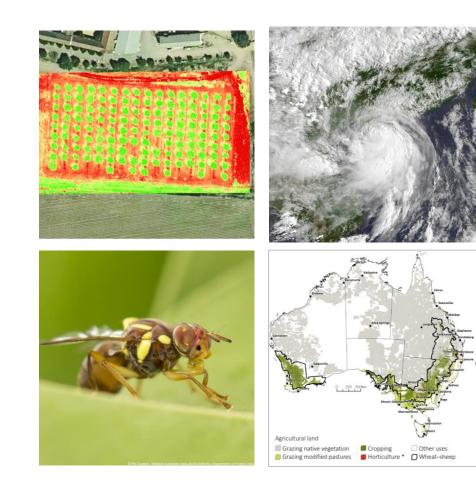


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## Mapping applications

#### **Applications:**

- Rapid Response Map
  - Biosecurity response and recovery (e.g. Varroa).
  - Natural disaster management
- Analysis and metrics.
- Image analysis (e.g yield, vigour, productivity).
- Baseline for additional data.
- Industry planning and forecasting.



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# Thank you



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Australian Tree Crop Map Dashboard

