

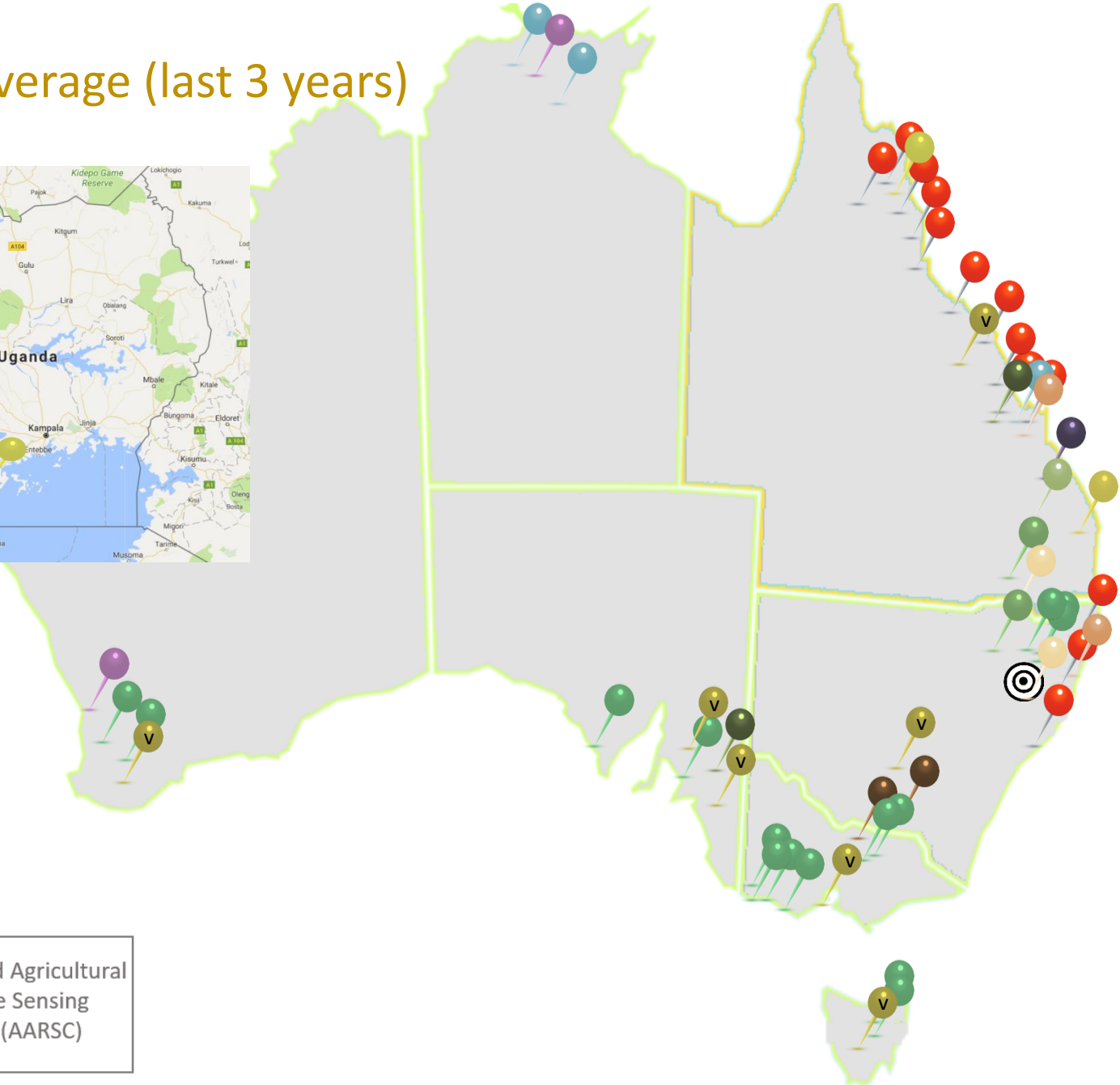
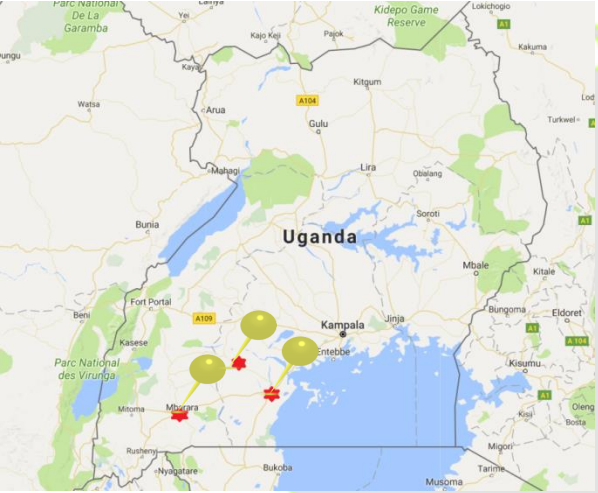
# Applied Agriculture Remote Sensing Centre (AARSC)



- Foster collaboration
- Monitoring and forecasting of crop health
- Calibration and validation
- Evaluation of emerging technologies
- Gateway to Industry
- Commercialisation support
- Training and extension

Professor Andrew Robson  
[Andrew.robson@une.edu.au](mailto:Andrew.robson@une.edu.au)




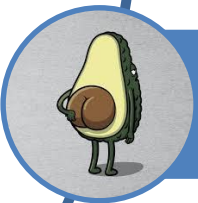
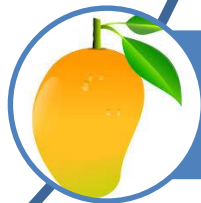
# What us: Industry coverage (last 3 years)



- 🎯 UNE: Smart Farm
- 🍆 Vegetables
- 🍓 Sugar
- 🥭 Mango
- 🥑 Avocado
- 🌰 Macadamia
- 🍌 Banana
- 🍚 Rice
- 🍍 Pineapple
- 🥜 Peanut
- 🌿 Pasture
- 🌱 Cotton
- 🍇 Wine grapes
- 🍊 Citrus



# Alignment with SmartSat CRC Program 3

Industry	Application/ product	Sensors used
 Sugarcane	Yield, vigour, N uptake regional forecasting	Sentinel, Landsat, SPOT6, WV-3, Ground based active
 Rice	Yield, vigour, N uptake	Sentinel, RapidEYE, UAV, airborne WV-3, Ground based active
 Peanut	Yield, vigour, aflatoxin crop establishment	Sentinel (optical & radar), WV-3 Ground based active, IOT
 Avocado	Yield, tree health, national mapping	Sentinel, WV-3, UAV, SPOT6 Ground based (thermal, LiDAR)
 Mango	Yield, maturity, national mapping,	Sentinel, SPOT6, WV-3, Ground based NIR, IOT

### Activity 2

Development and delivery of industry specific EO analytics products and services for e.g. Agriculture, Horticulture, Forestry, Aquaculture, Mining and Resources, and Transport and Logistics

### Activity 3

Development and optimisation of a design process for specialised EO sensor engineering for specific industry applications

