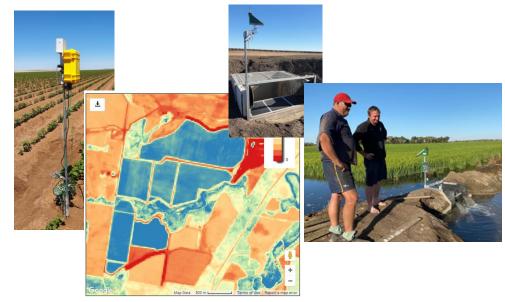
### **SMART SENSING & AUTOMATION**



Project Team: John Hornbuckle, Rodrigo Filev Maia Carlos Ballester Lurbe, Matt Champness



**Padman Stops** 

Goanna Ag

Department of Agriculture, Water and the Environment

















PARTNERS

CRDC









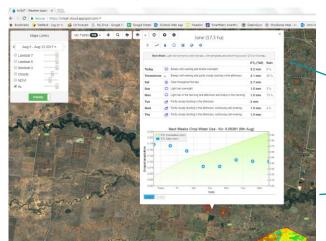
# WHAT IS SMART IRRIGATION CONTROL / AUTOMATION

- This project is aiming for much more than remote irrigation gate control – Automation 2.0
- It is integrating knowledge on maximising water and labour efficiency by providing automated control based on
- (i) in-field & remote feedback sensors
- (ii) forecast conditions/events



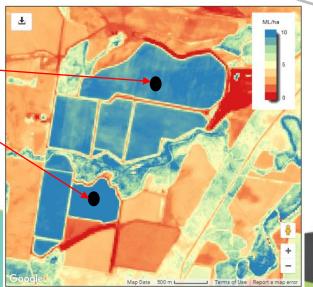


#### 7-14 day forecasts



Real-time sensing of soil, crop &





Delivery Infrastructure/ SCADA



On-line sensing & automation control







Smart control structures



**Autowinch Seasonal** 

# / PRODUCTS / AUTOMATION / AUTOWINCH / Autowinch Seasonal



## CENTRE FOR REGIONAL + RURAL FUTURES

climate

Deakin University CRICOS Provider Code: 00113B

## **PROGRESS**

- Trail sites established
- Sites used as a test bed for development of sensor and automated control structure integration.
- Full cloud based integration of sensing and automation control structures have been achieved
- Ability to use across Padman, Bruno Altin and MILCast checks
- Range of communication/extension activities undertaken



#### **SMART SENSING AND AUTOMATION — CRUISE** CONTROL FOR YOUR IRRIGATION SYSTEM



automation. High labour costs, increased OH&S issues

management. Getting the most out of automation is cal to ensuring its success, CREDIT: John Hornbuck

#### QUICK TAKE

- Two new projects, led by Deakin University. are looking at the benefits of smart sensing and automation in cotton and rice systems
- These projects, as part of the Smarter Irrigation for Profit Phase II project, aim to
- and labour efficiency by automating control

Soil moisture forecasting for irrigation

IFAC-PapersOnLine

Deakin University CRICOS Provider Code: 00113B

recommendation

## **FURTHER INFORMATION**

Deakin University Research – John Hornbuckle 0429 862 920 <a href="https://smarterirrigation.com.au/">https://smarterirrigation.com.au/</a>

Padman Stops – Grant Oswald 0448 097 308 <a href="https://www.padmanstops.com.au/">https://www.padmanstops.com.au/</a>

Goanna Ag – Tom Dowling 0428 717 982 <a href="https://www.goannaag.com.au/">https://www.goannaag.com.au/</a>



