



Charles Sturt  
University

# Opportunities for Research Collaboration

Professor Michael Friend

Pro Vice Chancellor (Research and Innovation)

*'Yindyamarra Winhanganha' - The wisdom of respectfully  
knowing how to live well in a world worth living in*



**ORANGE** 

A VIBRANT COUNTRY TOWN WITH A GREAT FOOD SCENE



**BATHURST** 

A FAST-GROWING REGIONAL HUB



**PORT MACQUARIE** 

ENJOY COASTAL LIFE WHILE YOU STUDY



**WAGGA WAGGA** 

THE BIGGEST INLAND CITY IN NEW SOUTH WALES



**ALBURY-WODONGA** 

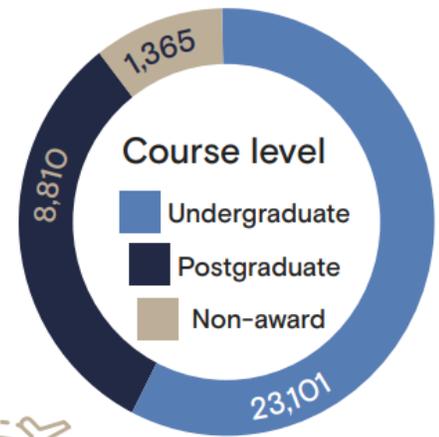
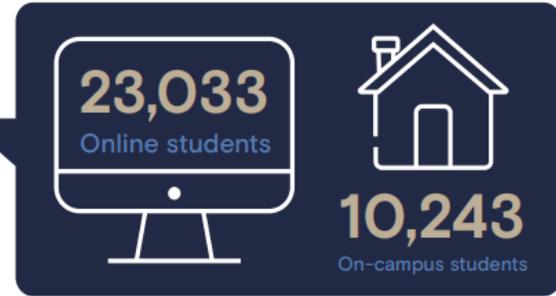
GO GREEN AND REDUCE YOUR CARBON FOOTPRINT WHILE YOU STUDY




# Charles Sturt At a glance



**33,276**  
Current students

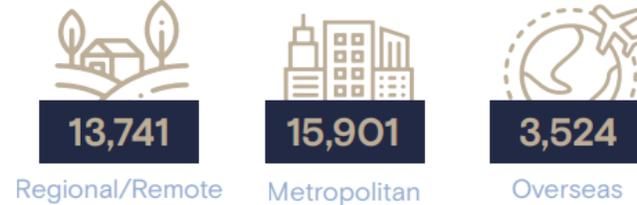


**1,928**  
Full-time equivalent staff



**3,171**  
Graduates

## Students by region



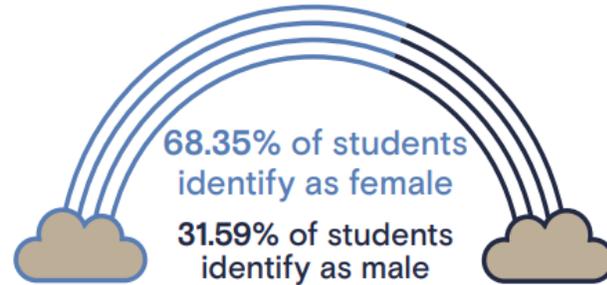
## Female leadership

Chancellor

Deputy Chancellor

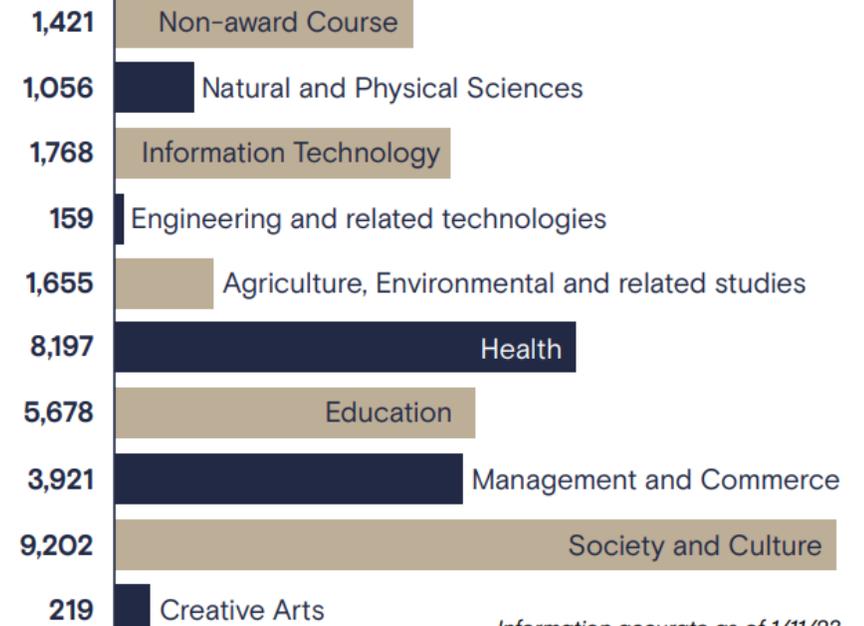
Vice-Chancellor

Chair of  
Academic Senate

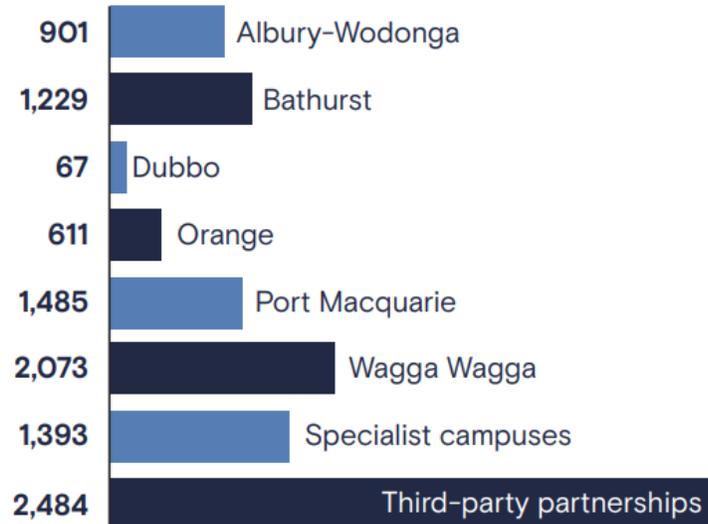


0.05% of students identify as another term

## Courses by field of education



## Students by campus



## Student equity groups



**3.6%**

First Nations  
Australians



**18.3%**

Low Socioeconomic  
Status (SES)

# Research portfolio at a glance

Elizabeth Znidarsic in the field with audio recording boxes for studying the bittern bird

## University World Rankings

We improved our position in the **two most** important world rankings – Times Higher Education (THE) and QS Rankings – by **200** places.

## Research outputs

**85** book chapters  
**27** books published

**73** reports commissioned  
**43** conference papers

**8** creative works  
**933** journal articles

## Metrics

**1.72** Field-Weighted Citation Impact

**1,012** citations received

**442** news mentions

**4,334** social media mentions

**646,423,617** total news media potential reach



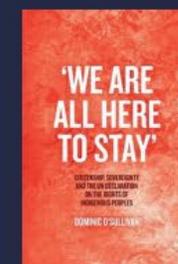
co-authors from **101** countries

## Research projects

**85** new research projects with a value of **\$42.1M**

**248** applications for external funding with a total value of **\$171.2M**

## Book launches



New appointment  
**Professor Sarah O'Shea**  
Dean of Graduate Research

“Charles Sturt University has a social responsibility to use its expertise to support and enable collaborative problem-solving to address pressing issues facing regional Australia.”

**Professor Mark Evans**  
Deputy Vice-Chancellor (Research)



# Research focus

We collaborate with our partners on research with impact.



**Gulbali Institute**  
Agriculture, water  
and environment  
research



**Rural Health  
Research  
Institute**



**Artificial  
Intelligence and  
Cyber Futures  
Research Institute**



**Faculty Research  
Centres and  
Groups**

One-CSU strategies around some key research themes:

- Renewables
- Biosecurity
- Circular Economy
- Wine

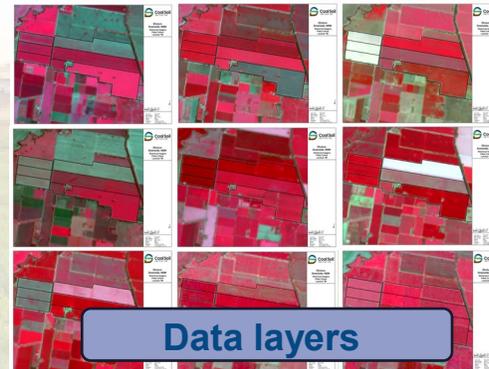
# Global Digital Farm (1600ha, \$22m investment)



Satellites



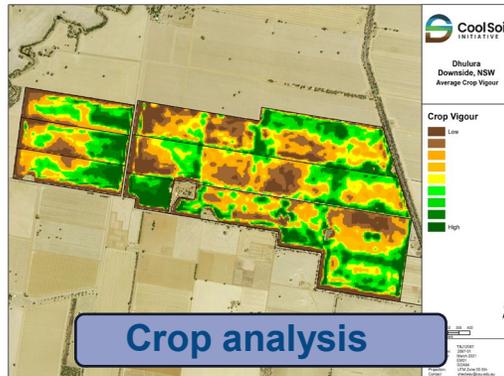
Viticulture



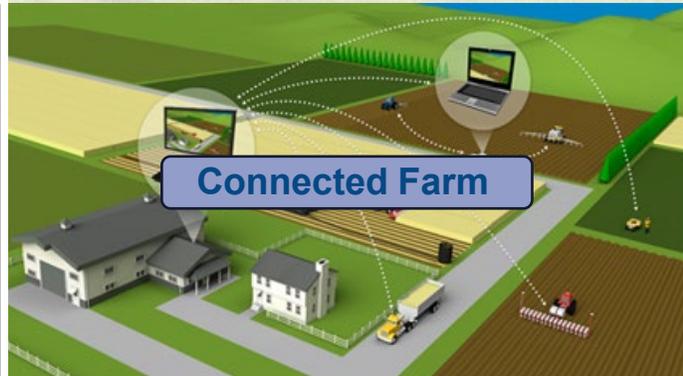
Data layers



Sensor network



Crop analysis



Connected Farm



Automation & robotics



Equipment



Soil sensing

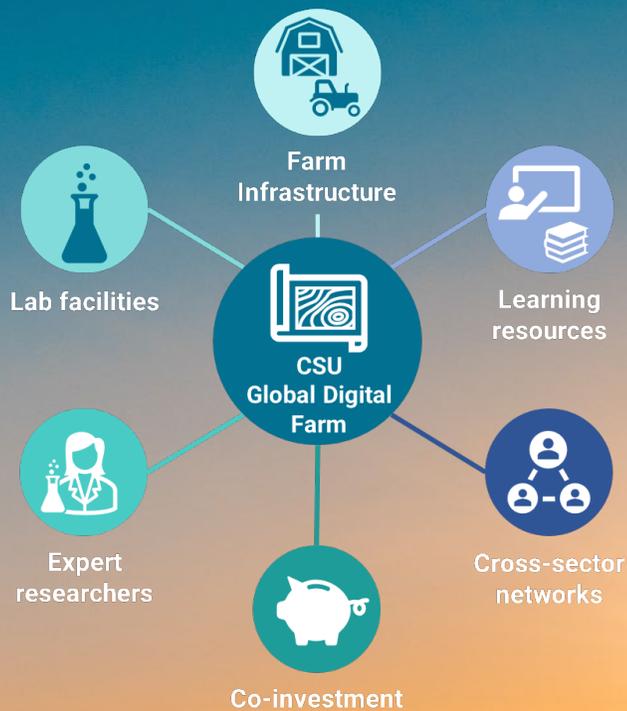


Decision support

New!!  
Global  
Smart Farm  
Network

# Renewables in Agriculture Centre of Excellence

*Empowering sustainable and productive regions through agriculture-focussed renewable energy research, innovation, demonstration and capacity building*



*Try, test and learn*

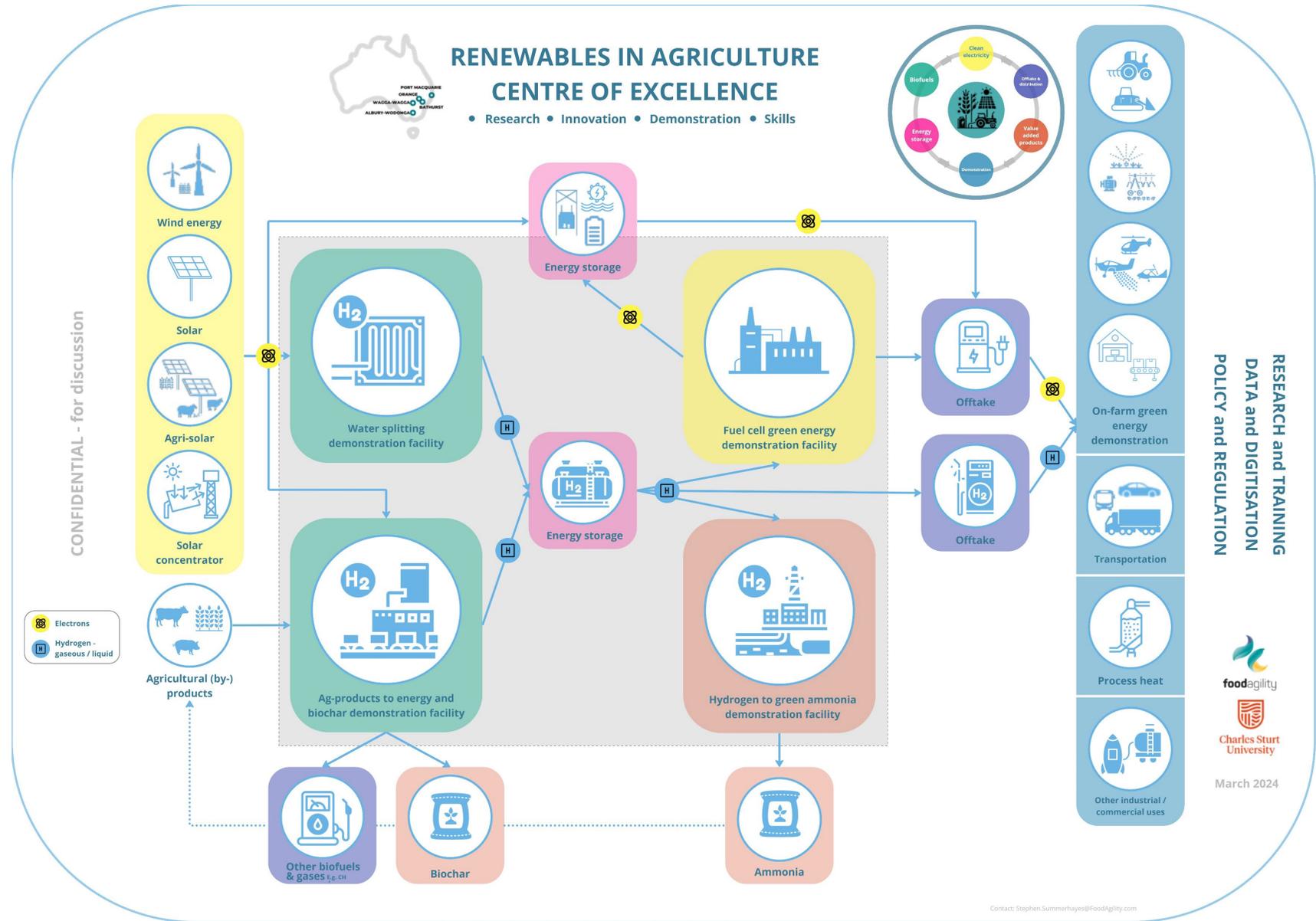


# Thinking Bigger

We need an interconnected approach.

This is how that might look...

Partnerships will be critical



# Example project: *A paddock to product partnership*



Delivering GHG emissions & scope 3 reporting in the Australian grain supply chain & supporting climate smart practices since 2017

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Foundation members



**MARS**

**Kellanova**



# Cool Soil Initiative in 2023: **Impact** By the Numbers

WHEAT DATA FOR CROP SOWN IN 2022 (unless otherwise noted)



kg CO2e /  
tonne wheat

215

**Emissions Intensity**  
(Land management  
excluded)



kg CO2e /  
tonne wheat

-31

**Emissions Trendline**  
2017-2022



legume hectares  
2017-2022

+50%  
+35%

**Increase in legume ha**  
**Increase in lime incorporation**  
(respectively)



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Obrigado



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