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

CSU locations
BRISBANE
NEW SOUTH WALES
SYDNEY
CANBERRA
VICTORIA
MELBOURNE
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

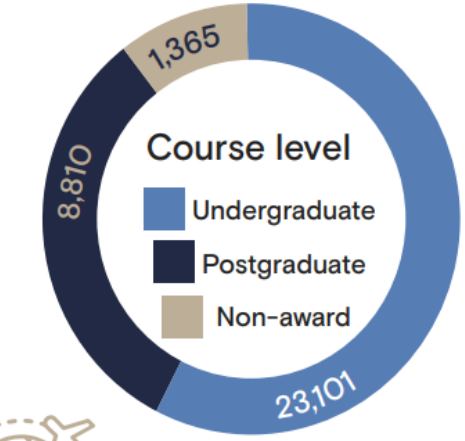
33,276
Current students

3,171
Graduates

1,928
Full-time equivalent staff

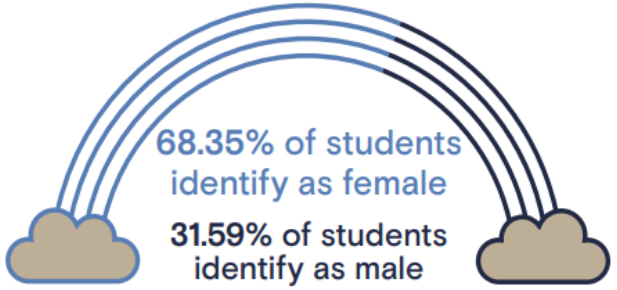
23,033
Online students

10,243
On-campus students



Female leadership

- Chancellor
- Deputy Chancellor
- Vice-Chancellor
- Chair of Academic Senate



0.05% of students identify as another term

Students by region

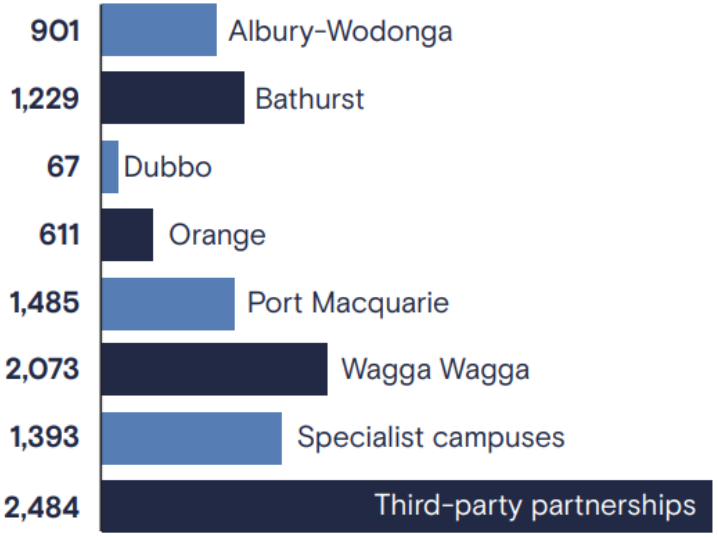
13,741	15,901	3,524
Regional/Remote	Metropolitan	Overseas

Student equity groups

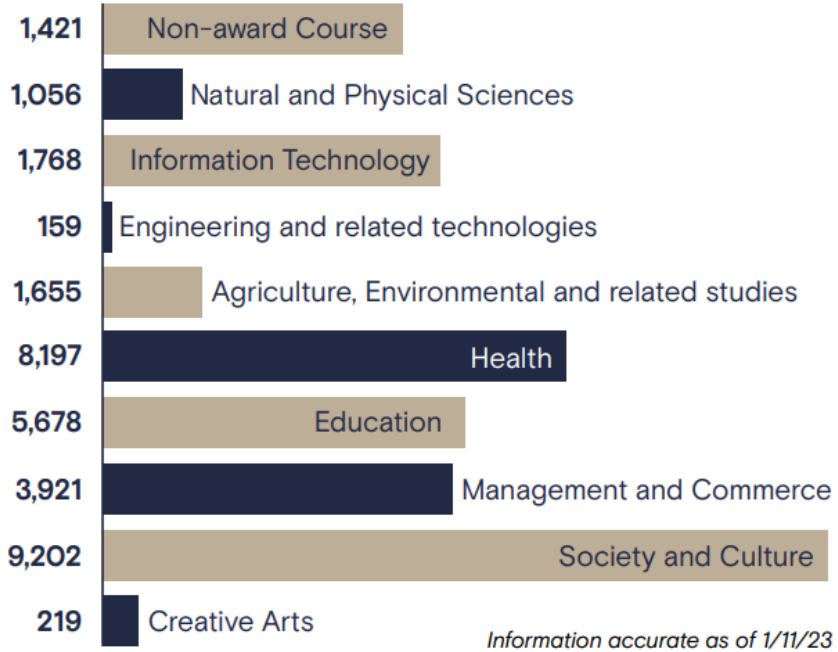
3.6% First Nations Australians

18.3% Low Socioeconomic Status (SES)

Students by campus



Courses by field of education



Information accurate as of 1/11/23

Charles Sturt University
RANKED =79th

Times Higher Education
Impact Rankings 2023
www.thewur.com

6

CLEAN WATER AND SANITATION

QUALIFYING SDG - 26% OF OVERALL

SCORE 78.3

RANK 38 out of 702 institutions

15

LIFE ON LAND

QUALIFYING SDG - 26% OF OVERALL

SCORE 83.3

RANK =39 out of 586 institutions

5

GENDER EQUALITY

QUALIFYING SDG - 26% OF OVERALL

SCORE 71.9

RANK 37 out of 1081 institutions

13

CLIMATE ACTION

SCORE 69.1

RANK 82 out of 735 institutions

17

PARTNERSHIP FOR THE GOALS

MANDATORY QUALIFYING SDG - 22% OF OVERALL

SCORE 94.6

RANK 23 out of 1625 institutions

Research focus

We collaborate with our partners on research with impact.

Gulbali Institute
Agriculture, water and environment research

Rural Health Research Institute

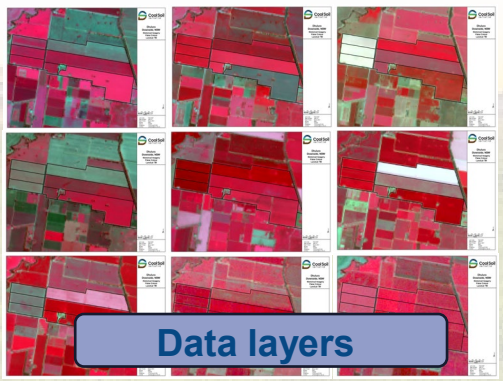
Artificial Intelligence and Cyber Futures Research Institute

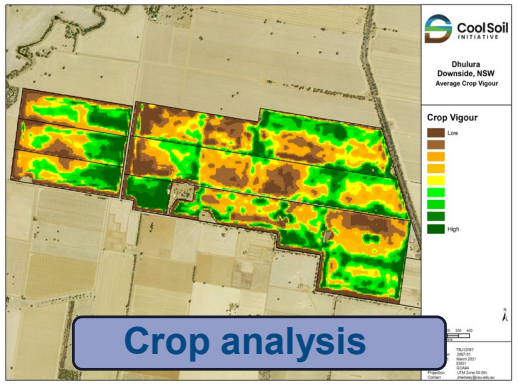
Faculty Research Centres and Groups

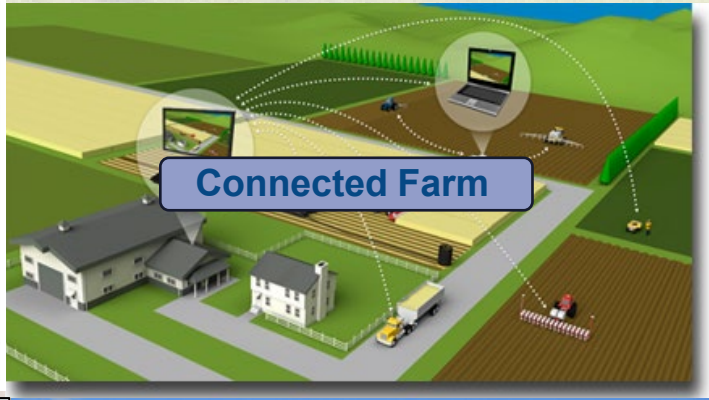
One-CSU strategies around some key research themes:

- Renewables
- Biosecurity
- Circular Economy
- Wine

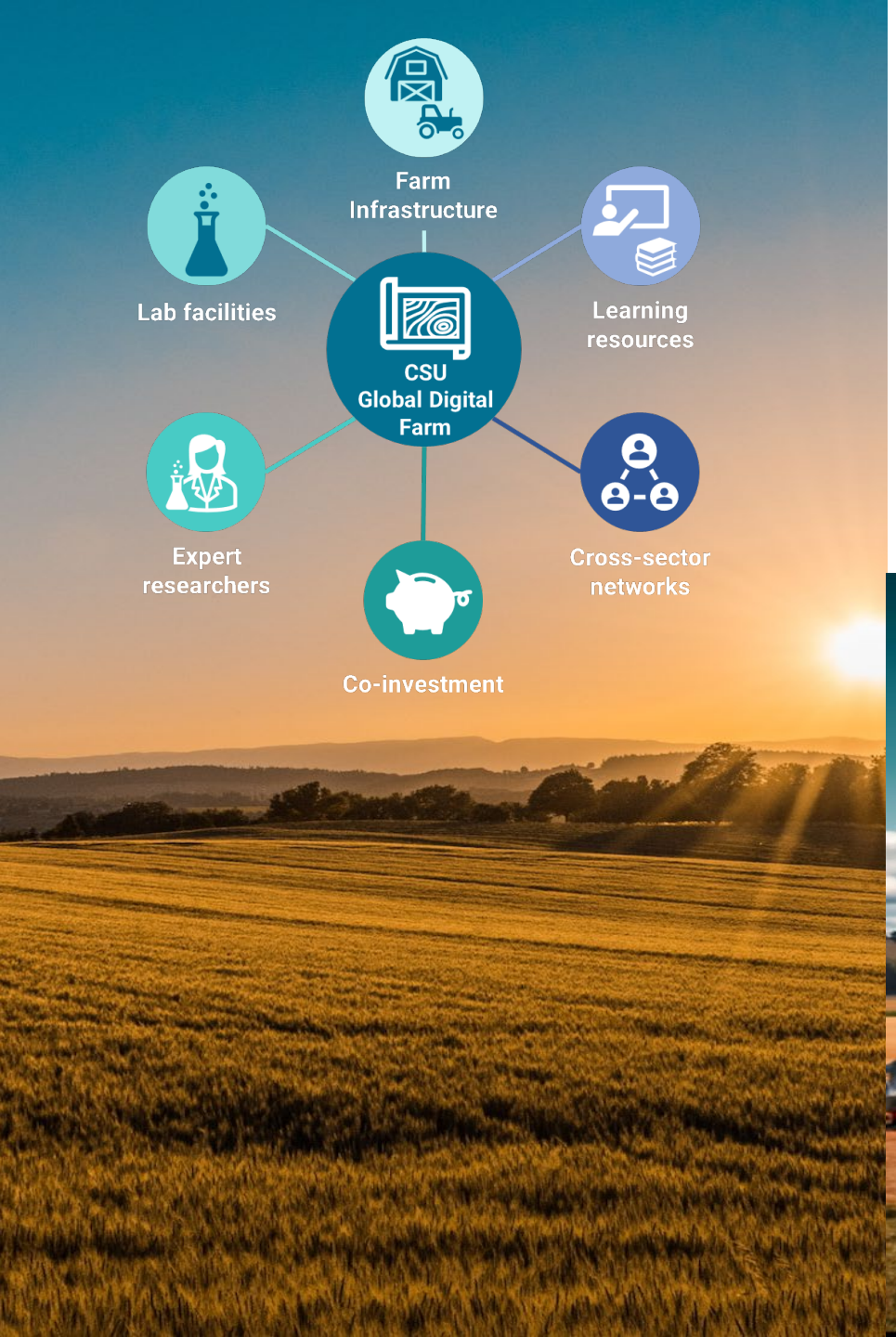
Global Digital Farm (1600ha, $22m investment)







New!!
Global
Smart Farm
Network



Renewables in Agriculture Centre of Excellence

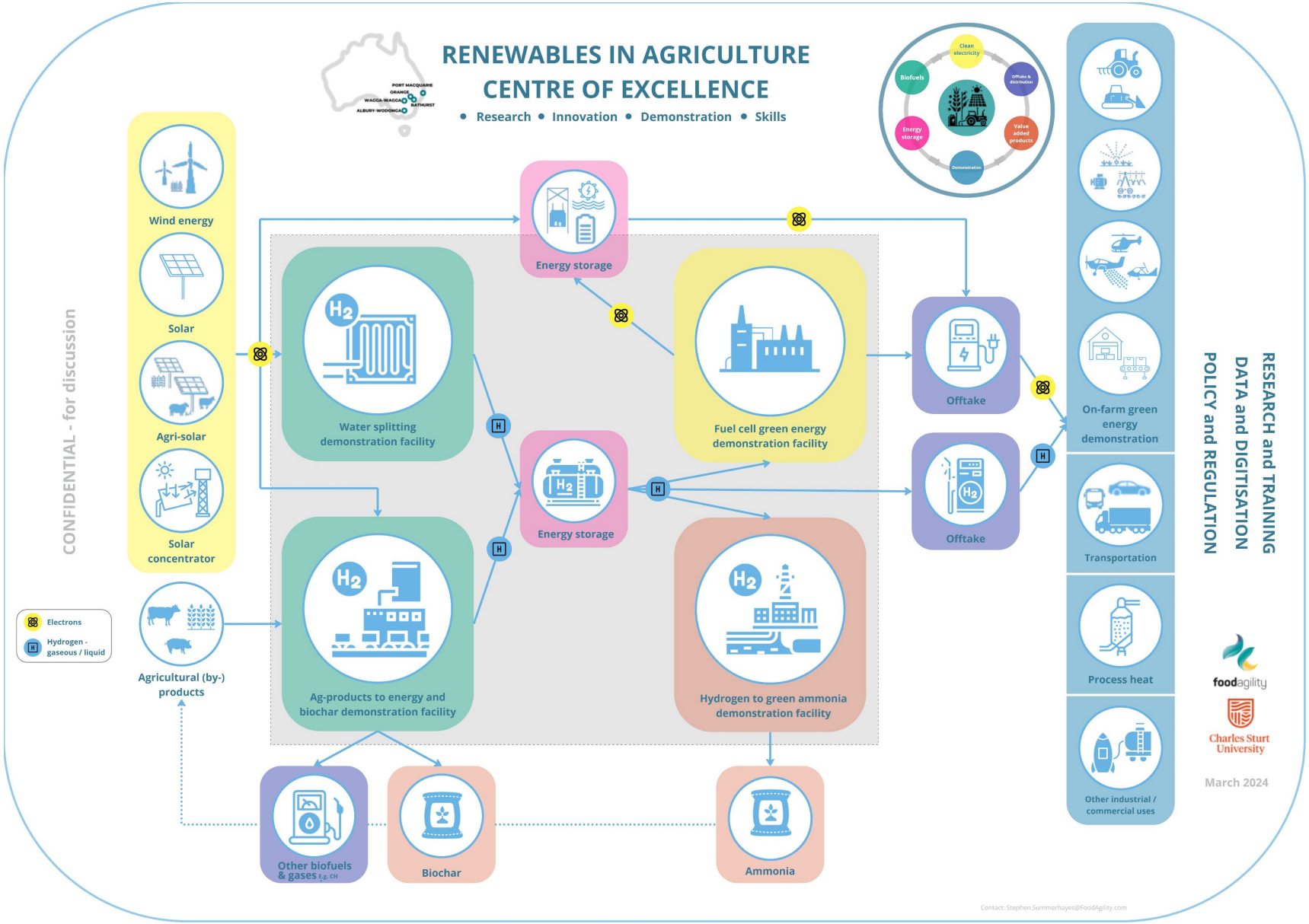
Empowering sustainable and productive regions through agriculture-focussed renewable energy research, innovation, demonstration and capacity building

Thinking Bigger

We need an interconnected approach.

This is how that might look…

Partnerships will be critical



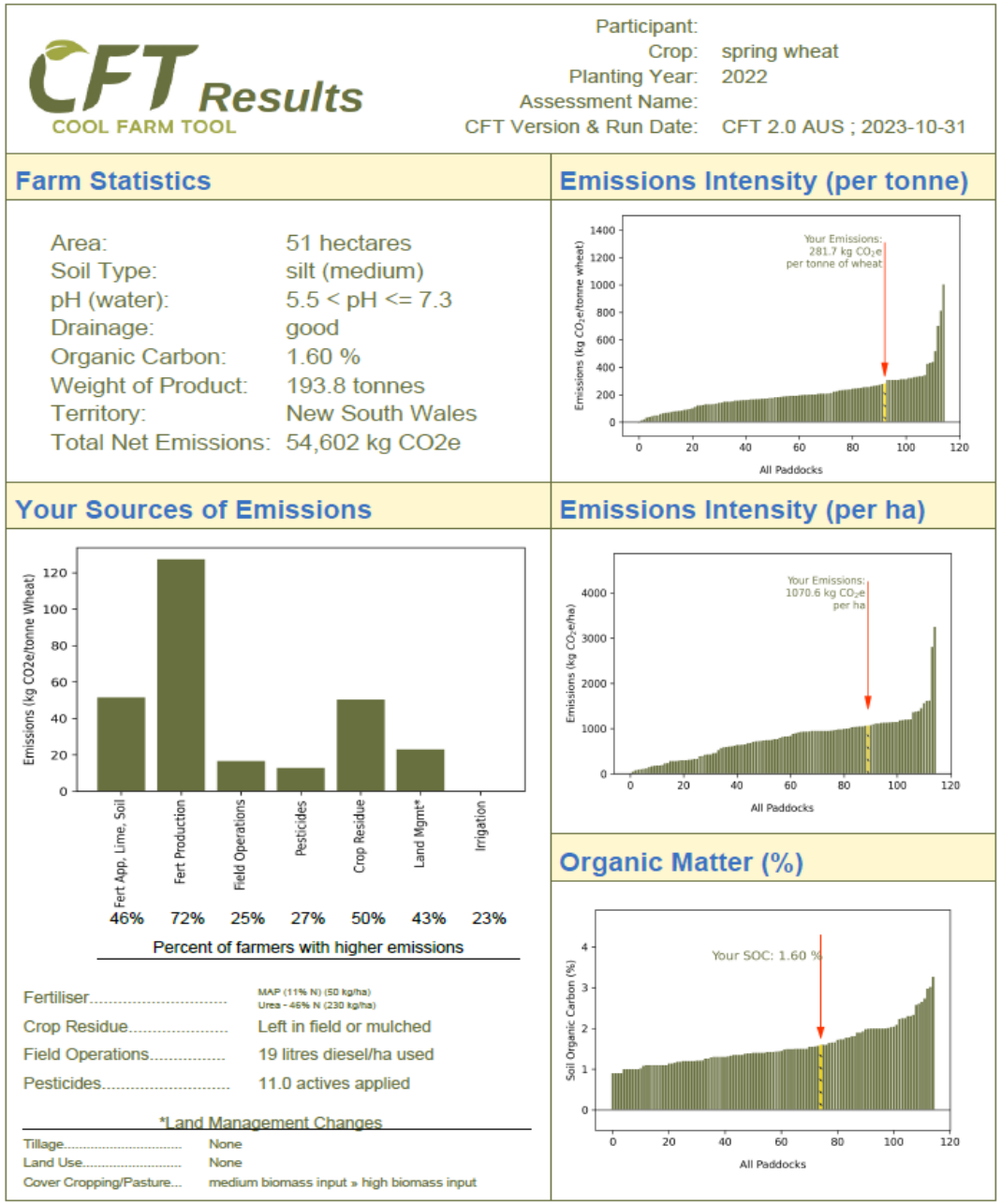
Example project:
A paddock to product partnership

Cool Soil INITIATIVE

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

Foundation members

Charles Sturt University · MARS · Kellanova · MANILDRA GROUP 100% AUSTRALIAN OWNED · ALLIED PINNACLE · CORSON · PEPSICO



Cool Soils initiative

Every farmer receives a benchmarked report showing:

- Sources of emissions
  - % farmers with higher emissions
- Emissions intensity (per tonne)
  - For commodity reporting
- Emissions intensity (per ha)
  - For farm input assessment
- Organic matter – SOC% values
- Summary of practices / land management

Charles Sturt University MARS Kellanova MANILDRA GROUP 100% AUSTRALIAN OWNED ALLIED PINNACLE CORSON PEPSICO

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)

Charles Sturt
University
Gracias!
Charles Sturt
University