P2D Project

Accelerating Precision Agriculture to Decision Agriculture

RDC Partners

Australian Government — Cotton Research and Development Corporation

AgriFutures Australia

GRDC — Grains Research & Development Corporation

sra — Sugar Research Australia

Horticulture Innovation Australia

Dairy Australia

AWI — Australian Wool Innovation Limited

mla — MEAT & LIVESTOCK AUSTRALIA

AMPC

LiveCorp — The Australian Livestock Export Corporation

Australian Pork

Wine Australia

Forest & Wood Products Australia

FRDC

Australian eggs

Research Partners

DATA 61 · CSIRO

DATA TO DECISIONS CRC — Unlocking the value of Australia's data

Australian Farm Institute

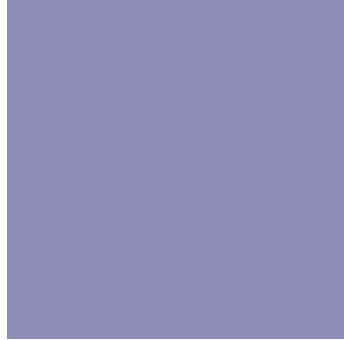Griffith University

USC Australia

University of New England

This project is supported by funding from ....

Australian Government — Department of Agriculture and Water Resources

+ The project

This project is supported by funding from the Australian Government Department of Agriculture and Water Resources as part of its Rural R&D for Profit programme. The P2D project involves all Rural Research and Development Corporations, and is focused on three main aims:

- Facilitating the development of digital technology in Australian agriculture.
- Fostering the establishment of appropriate legal frameworks, data systems and access to critical datasets.
- Identifying the data communications systems required to deliver the benefits of digital agriculture to the Australia farm and agribusiness sectors.

Project Outcomes

- To increase the profitability of Australian farm businesses by providing business strategies to realise the economic potential of digital agriculture.

- To foster the development of the rules, systems and communications requirements needed to ensure that farm, industry and environmental data is accessible, scalable, and portable while protecting the rights of the data owners.

- Through the involvement of all 15 rural RDC's to develop a whole of agriculture approach to the adoption of digital agriculture technologies and systems.

Project Deliverables

- Recommendations for the best options to support the interaction between publicly funded R&D and next generation commercial decision support and data collection tools.

- Policy options and frameworks for ownership and management of and access to big data.

- A value proposition for producers to participate in the agricultural big data economy.

- Information packages for farmers to increase their knowledge, skills and confidence to adopt digital agriculture technologies.

- Improved cross sectoral industry research collaboration.

✚ Key big data issues for producers….

- Who will hold the data produced and how will access to that data be controlled?
- The need to have commonality and portability of data sets.
- Demonstrated business cases and value propositions for cross industry collaboration and the application of big data in agriculture.

Project reports will include

- The current state of data rules dealing with data ownership, access, use, liability and licensing in Australian agriculture.

- Recommendations for an effective and efficient data governance framework for Australian agriculture including best practice contracts for Australian producers.

- A decision tree defining the data needs for an agricultural data system with full consideration of data systems existing in the broader economy.

- A register of cross-sectoral agricultural and environmental data sets and decision support tools.

- A report of data communications gaps, needs and potential solutions for Australian agriculture.

- A spatial map of data coverage for Australian primary producers.

- A proposed agricultural data system described in a *'Decision Agriculture Reference Architecture'* with consideration of interoperability, security, scalability, availability, analytics and existing commercial platforms.

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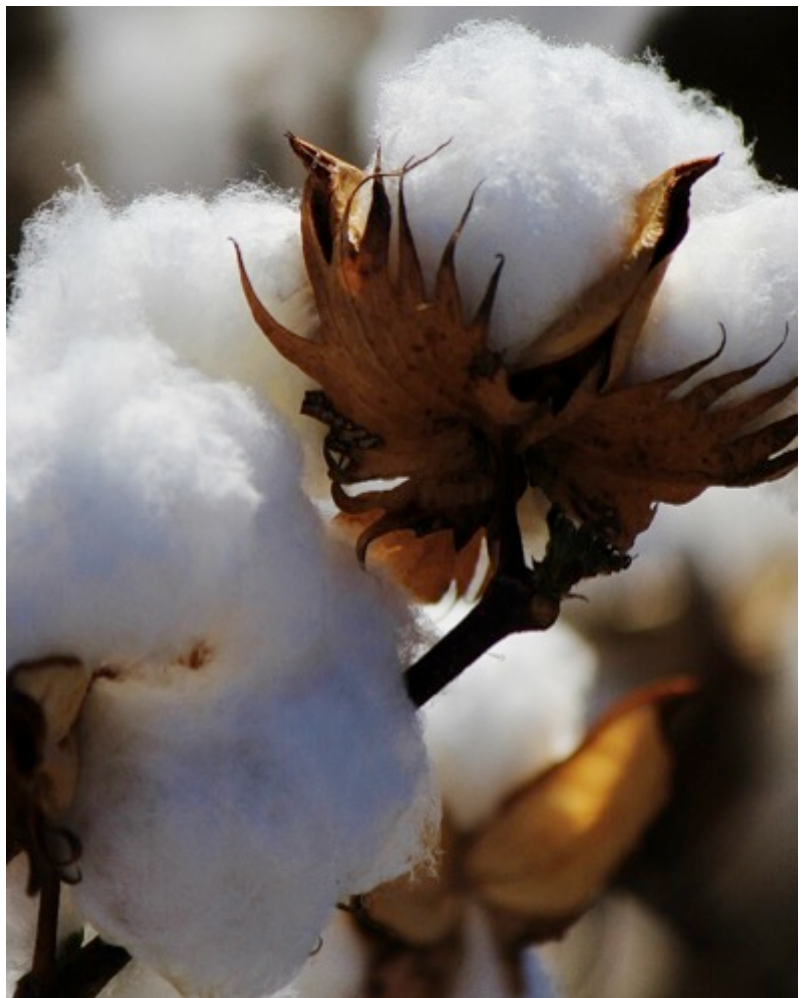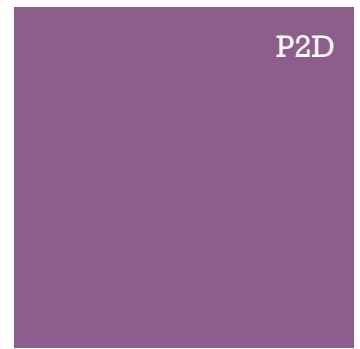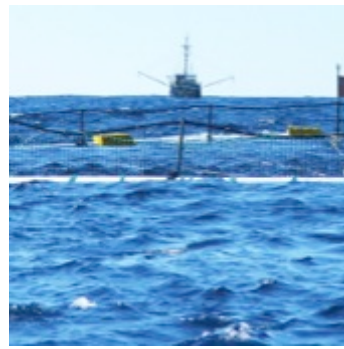
The project will.....

- Identify cases where the use of digital agricultural applications and use of data is likely to have high-impact profitability and productivity benefits

- Involve a detailed analysis of the current and future economic benefits of digital agriculture in Australia, examining the projected use and benefits to farm business decision making, risk management and profitability

- Evaluate the options, merits and risks of business models to take advantage of digital technologies in the Australian agricultural sector

Project website: www.crdc.com.au/precision-to-decision