On Farm Connectivity
Information Service

INFORMATION TOOLKIT

NOVEMBER 2023







INFORMATION TOOLKIT

In this toolkit, you will find everything you need to help spread the word about the new On Farm Connectivity Information Service.

Containing links to resources you can download, or share, via your communications channels - please distribute to your network.

Keep checking the Regional Tech Hub website for regular updates and additional information to help get you connected



Overview

Connect with Regional Tech Hub

Case Study: Longline Fishing

Case Study: Walnut Farm Case

Study: Marketing Manager Case

Study: Oyster Farmer

Factsheets

Useful Guides

Videos

More Information

OVERVIEW



On-farm connectivity. Driving the next wave of productivity.

The National Farmers' Federation (NFF) are proud to support the Federal Government's On Farm Connectivity Program (OFCP), by delivering a free Information Service to boost on-farm digital and agtech adoption.

Launching the independent On Farm Connectivity Information Service, the NFF's Regional Tech Hub works directly with farmers to help them make informed decisions around the connectivity technologies best suited to their business.

Whether it be determining how to extend connectivity from the house to the machinery shed or yards, or how to support some of the highly sophisticated production networks and systems they wish to adopt, the Information Service provides practical, tailored solutions.

Farmers are urged to make use of this free, independent advisory service, so they can confidently participate in the On Farm Connectivity Program and access rebated support for the cost of eligible equipment, including installation and training, to boost the productivity of their business.



CONNECTING WITH THE REGIONAL TECH HUB





Free and independent service available to help answer questions about the On Farm Connectivity Program. We also provide advice on selecting connectivity options and technologies for your farm:

To support the roll out of the program, the NFF has launched an On-Farm Connectivity Information Service, delivered through the Regional Tech Hub, to help farmers access rebates up to \$30,000 under the **Australian Government's new On Farm Connectivity Program**. This is a completely free and independent service that helps farmers by answering any questions or helping them understand what connectivity technology options they may need and can access through the program.

Ways to get in touch with the Regional Tech Hub:

- · Visit our website: Here
- · Book an appointment to chat with our team: Here
- Call us on 1300 081 029
- · Fill out a contact form for individualised info: Here



FOR MORE INFORMATION WATCH OUR WEBINAR.

Held on 23 November 2023, where we hear from the Regional Tech Hub and the Department on program eligibility, the application process, and lots of questions answered from farmers.

VIDEO LINK

How we can help:

- · Walk you through the eligibility criteria for the program
- Provide examples of equipment covered by the rebate
- Free advice on choosing the right connectivity technology and develop an adoption plan
- Sounding board to discuss options and ideas for on farm connectivity
- Walk farmers through their best options and next steps
- Answer any technical questions farmers might have.

We have already helped dozens of farmers better understand their options and how to apply through the program. Please get it in touch if we can help you!





USE CASE:
DAVID, LONGLINE FISHING

AgriFutures Australia

DOWNLOAD CASE STUDY HERE

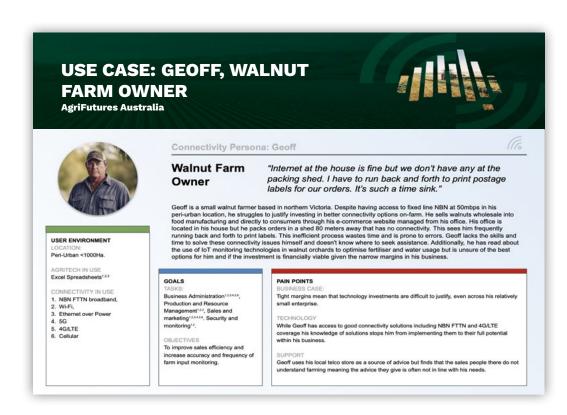




USE CASE:
GEOFF, WALNUT FARM OWNER

AgriFutures Australia

DOWNLOAD CASE STUDY HERE





USE CASE:

JULIA, MARKETING MANAGER AND FARMER

AgriFutures Australia

DOWNLOAD CASE STUDY HERE

USE CASE: JULIA, MARKETING MANAGER AND FARMER

AgriFutures Australia



USER ENVIRONMENT

Rural, remote >2000Ha

AGRITECH IN USE

Weather Stations^{1,2,4}, Farm Management Software^{1,2,3,4}, Yield Prediction Maps^{1,2}, Yield Data^{1,2,8}

CONNECTIVITY IN USE 1. NBN fixed wireless broadband,

- 2. Wi-Fi,
- Ethernet over Power
 LoRaWan
- 5. Cell-Fi
- 6. UHF-Radio
- 7. 3G 8. 4G/LTE
- 9. Cellular

Connectivity Persona: Julia

Marketing Manager

"Good internet access is essential for my marketing business. I couldn't run it without it. I would lose valuable income as well as my passion!"

Julia and her husband manage a large cropping farm spanning over 2000 ha, cultivating wheat, lupins, canola, barley, and producing export hay. Limited 4G connectivity means they rely on 3G cellular connections in specificarea, with a cell-fi system boosting the signal for usability in key areas. Julia also operates a marketing consulting business, which provides crucial off-farm income and that is 100% reliant on good internet service. Communication across the property is facilitated by UHF radio, utilising installed and community repeaters. Julia has a box in her kitchen from a local grower group's community weather station project that is plugged into her home network. She accesses regional weather information from the project through a website. Despite available yield data from machinery, it remains largely unused, except for occasional requests from her agronomist. Recent satellite downtime, affecting GPS correction signals, highlighted the significance of technology like auto steer for her contract workers and younger staff to carry out their work effectively.

GOALS

Business Administration 1.2.3.5.6.7.8.9

Production and Resource Management (12.15.67.89), Selling and marketing (12.35.87.89), Security and monitoring (12.35.87.09) form business management (12.35.87.89)

OBJECTIVES

To support production and resource efficiencies, disaster prevention, maintain off-farm income.

PAIN POINTS

The property is too large for whole of farm connectivity investments, Julia is worried that the upcoming 3G turn off will deprecate her cell-fi repeaters and some 3g sims she uses for remote monitoring of water supplies leaving her with no cellular service.

TECHNOLOGY

UHF is the main connectivity tool in use but it's not private. She has access to a LoraWan network but does not know how to further leverage it. Sometimes her fixed wi-fi goes down for no apparent reason meaning she cannot work and loses of farm income.

JPPORT

Julia doesn't know where to go for support but tries to leverage her grower group.



USE CASE:
DUNCAN, OYSTER FARMER

AgriFutures Australia

DOWNLOAD CASE STUDY HERE

USE CASE: DUNCAN, OYSTER FARMER

AgriFutures Australia





USER ENVIRONMENT

Rural ~8Ha

AGTECH IN USE

Farm Management App^{1,2,5,6}, Maintenance App^{1,2,5,6}, Water Monitor Sensors^{1,2,4}, Weather Station (x1)^{1,2,5}

CONNECTIVITY IN USE

- 1. NBN FTTN broadband,
- Wi-Fi,
 Ethernet over Powe
- 4. LoRaWan
- 5. 4G/LTE 6. 5G
- 7. UHF Radio
- 8. Cellular (personal phones)

Connectivity Persona: Duncan

Oyster farmer

"I usually have mobile signal, I use my phone mostly to speak to customers, keep track of production and to check weather conditions."

Duncan manages a shared farm business on the NSW Central Coast, farming oysters with 4 other farmers. He recently adopted a mobile app for farm management, which helps him optimise his business. The app tracks cyster growth and bag numbers using GPS for physical location. Duncan can access information on the go, allowing him to communicate with customers and fulfill orders even when he's away from the office. His team also uses the app for maintenance tracking. They communicate through WhatsApp, ildessage, and phone calls. Duncan utilises LoRaWan connected flow sensors to monitor water characteristics and temperature. He also has access to NSW DPI data and uses his phone and the office computer to check the weather and to fulfill orders. Although 4G/LTE signal isn't perfect, it doesn't pose significant issues, and 5G is being introduced in the area. Wif-Fi is used across the farm station, with broadband in the office.

GOALS

Business Administration 1,2,3,4,5,6,7,6

Production and Resource Management ^{1,2,4,5,6,7}, Sales and marketing ^{1,2,5,6,8}. Security and monitoring ^{1,2,5}. Staff management ^{1,2,5,6,7,8}.

OBJECTIVES

To support production and resource efficiencies, enable better planning and maintenance, increase sales.

PAIN POINTS

Connectivity is not generally an issue for Duncan both on land and on boat however he struggles to be aware of the new technologies that could help his business.

TECHNOLOGY

Duncan doesn't generally face prolonged connectivity issues as he has mobile and wi-fi connectivity but frequently reboots his NBN modem due to poor service from the supplier. Staff use their personal mobile phones over which Duncan has no control.

SUPPORT

Duncan, who manages his farm's technology independently, keeps up with new advancements by reading technology websites and industry press. However, he struggles to find reliable and affordable specialist support to manage his technology effectively.

FACTSHEETS



FACT SHEETS

ON-FARM CONNECTIVITY TECHNOLOGY OPTIONS

PICKING THE RIGHT CONNECTIVITY
SOLUTION FOR YOUR FARM BUSINESS

ON-FARM CONNECTIVITY EQUIPMENT: AN ESSENTIAL GUIDE

STEPS IN YOUR ON-FARM CONNECTIVITY JOURNEY

ON-FARM CONNECTIVITY: ENVIRONMENTAL MONITORING FACTSHEET

ON-FARM CONNECTIVITY: FARM MANAGEMENT EQUIPMENT FACTSHEET



ON-FARM
CONNECTIVITY
TECHNOLOGY OPTIONS



STEPS IN YOUR
ON-FARM
CONNECTIVITY
JOURNEY



PICKING THE RIGHT CONNECTIVITY SOLUTION FOR YOUR FARM BUSINESS



ON-FARM
CONNECTIVITY:
ENVIRONMENTAL
MONITORING
FACTSHEET



ON-FARM
CONNECTIVITY
EQUIPMENT: AN
ESSENTIAL GUIDE



ON-FARM
CONNECTIVITY:
FARM MANAGEMENT
EQUIPMENT FACTSHEET



USEFUL GUIDES



USEFUL GUIDES:

Handy guides for reference



Agri 4.0 Connectivity at our fingertips A drop der into the most important analiser for digital innovation on Australia's forms. Manual Ma

ON-FARM CONNECTIVITY GUIDE

This guide is designed to assist farmers better to understand the key phrases used in the on-farm, AgTech and connectivity sectors as they are relevant to agricultural operations.

DOWNLOAD GUIDE HERE

AGRI 4.0 - CONNECTIVITY AT OUR FINGERTIPS

The purpose of this paper is to cut through the confusion surrounding on-farm connectivity. KPMG IoT and AgTech specialists explore the technology landscape, and shine light on the stories of pioneering farmers who have already adopted digital technology to advance their enterprises.

DOWNLOAD PDF HERE

VIDEOS



USEFUL VIDEOS:

Video to watch to learn about Farmers experiences



MEET TIM GLEESON, A CONNECTED FARMS BROADACRE CUSTOMER.

Connected Farms

Meet our customer Tim Gleeson who owns a broadacre operation in Victoria.

VIDEO LINK



MEET ZAC GLOVER A CONNECTED FARMS BROADACRE CUSTOMER.

Connected Farms

Meet Zac Glover our valued customer share his experience with our Satellite on the move product!

VIDEO LINK



MEET PETER A SOUTH AUSTRALIA BROADACRE FARMER

Connected Farms

Watch Peter Glover's journey and see how it's boosting operations on his farm.

VIDEO LINK

MORE INFORMATION



Regional Tech Hub

regionaltechhub.org.au/home/on-farm-connectivity-program/

On Farm Connectivity Program

infrastructure.gov.au/ofcp

business.gov.au/grants-and-programs/on-farm-connectivity-program

National Farmers Federation

nff.org.au/on-farm-connectivity-information-service

THANK YOU FOR SPREADING THE WORD

On-farm connectivity.
Driving the next wave of productivity.





