BIGG ON-FARM WATER INNOVATIONS TECHNOLOGY PROJECT – PHASE 2.

Jane Evans

Project Co-Ordinator

HOW WILL A WATER AG.TECH. PROJECT HELP OUR FARMERS AND THEIR BUSINESSES?

- For all livestock enterprises the availability of water is paramount to optimize production and welfare of livestock. Water is a finite resource and the loss of any water, especially in times of drought, can be a significant farming financial cost.

- This project will aim to identify what innovations are relevant and practical for individual's properties in our region, and include monitoring devices that are versatile for bores, mains and surface water storages.

HOW TRIALING THESE INNOVATIONS WITH ASSIST PRODUCERS WITH DECISION-MAKING FOR THE FUTURE.

Today, there is overwhelming information, and a lack of comparison between the different technologies and provider companies. This project will try to break down these barriers by providing 6 demonstration sites on local producer's properties and researching the practical application of these devices. Lived experience with our trial site landholders will help us to decide which innovation may be best for our own businesses in the future.

TIME FRAME OF PROJECT

- This project began in late 2023 and will be completed by June 2024.
- We will look at return on investment in terms of savings in real time and working hours.
- We will also investigate if these devices assist our producers with increased peace of mind and less stress, knowing that their livestock have every chance of being healthy and having reliable access to water security.

INNOVATIONS & COSTINGS

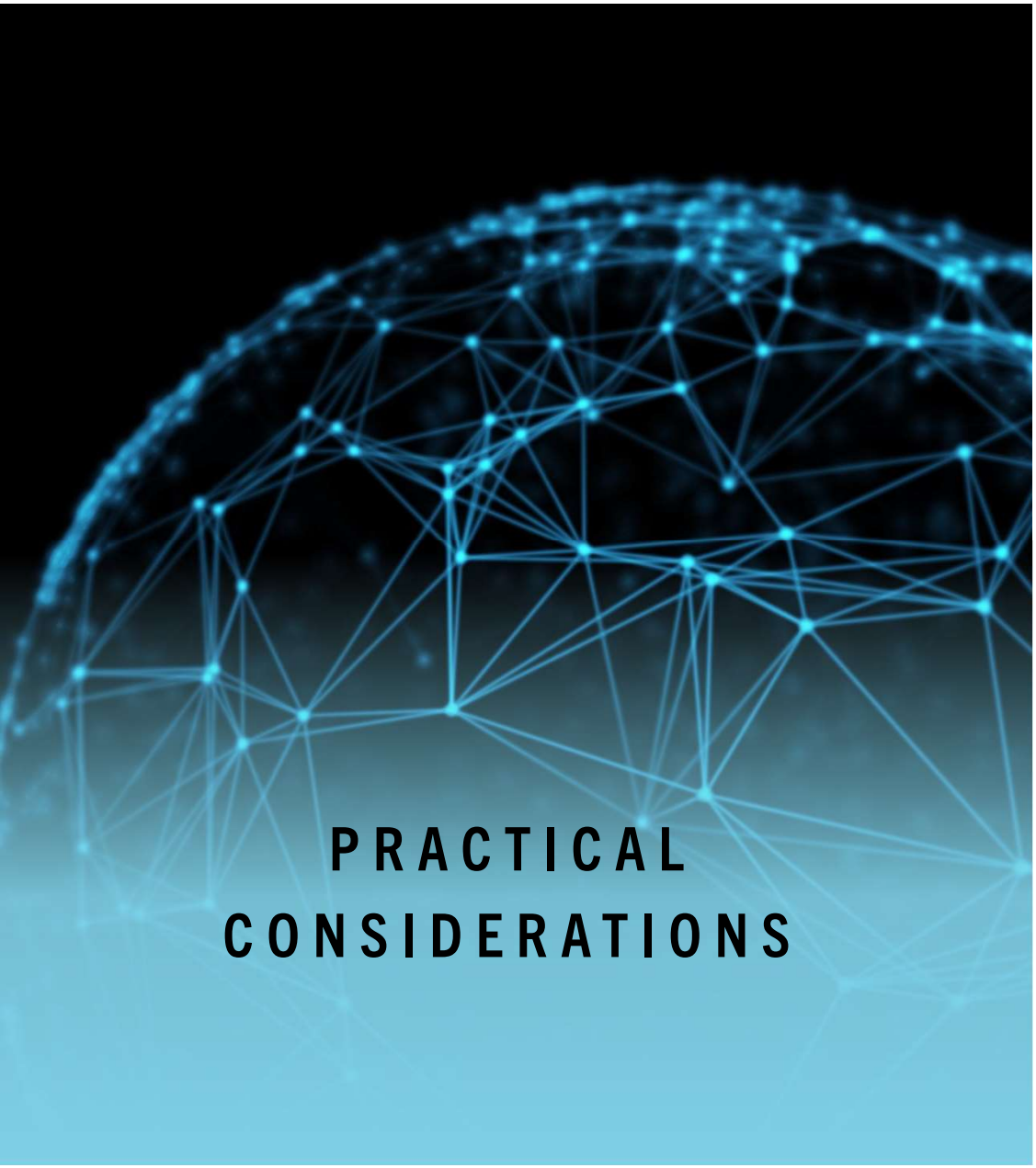
SUPPLIER	EQUIPMENT	COSTS PAID BY BIGG	MONITORING FEES	TRIAL SITES
KALLIPR ioT TECHNO-LOGIES	WATER QUALITY MONITOR	$1,599.00	$159.00	Phil & Sarah Lehmann Eden Valley
CROC TROUGH	WATER AERATOR PUMP	TPS 50 - $635.00	Nil	William & Sandy Hurn Angaston

INNOVATIONS & COSTINGS

SUPPLIER	EQUIPMENT	EQUIPMENT COSTS	MONITORING FEES	TRIAL SITE
CROC TROUGH X 2	WATER AERATOR TROUGH PUMPS	TPS 50 - $635.00 TPS 20 - $380.00 models	NIL	PETE & JESS MITCHELL ANGASTON
UNEEK LED'S SOLAR AND LIGHTING SPECIALISTS	SOLAR MONITORING CAMERA -remote monitoring of livestock and water	$390.73	$2.00 SIM CARD WITH $70 DATA.COSTS APPROX. $8/MONTH.	RYAN FOULIS NURIOOTPA/ SPRINGTON

INNOVATIONS & COSTINGS

SUPPLIER	EQUIPMENT	COSTS	MONITORING FEES	TRIAL SITES
TANKS 360	TANK LEVEL MONITOR - SCREEN AND DASHBOARD	$650.00	$15/ANNUM	GREG KOCH MOCULTA
AGBOT	SATELLITE TANK LEVEL MONITOR	$599.00	FIRST YEAR FOR FREE, THEN $99/ANNUM.	STEPHEN AND VERICA SEELIGER FLAXMAN VALLEY.



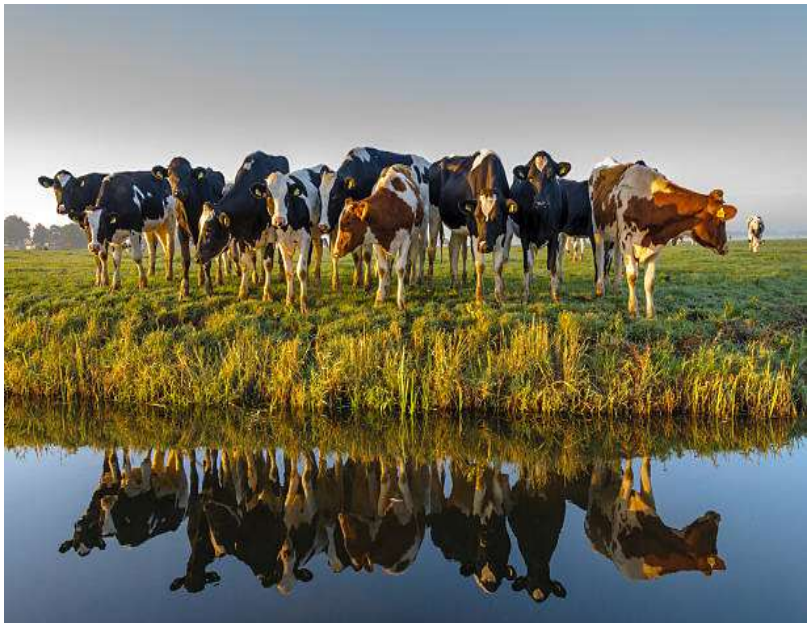
KEY:

- **Connectivity:**
- 3G/4G – the device needs to access 3G/4G reception.
- Sat – the device connects through satellite communication.
- LoRaWAN – Long-Range Wide Area Network Connection.
- Cat-M1 – low power wide area (LPWAN) technology.
- **Installation:**
- Producer – the installation is undertaken by the producer/landholder.
- Provider – the installation of the device is facilitated by the technology supplier.

PRACTICAL CONSIDERATIONS (CONTINUED:)

- **Power:**
- Battery – power can be supplied through a battery, and voltage can be monitored, and the battery replaced when necessary.
- Solar – Power is supplied through a solar panel and a battery.
- Mains – power can be supplied through mains electricity.
- **Communications:**
- Alert – a real-time alert is sent notifying the user of an issue.
- Email – the device sends email updates to your nominated email address/s.
- Text – text message updates and dashboards, sent as requested to the users/producers mobile phone.
- Online – data that can be accessed online 24/7.

THANK YOU TO THE SA DROUGHT HUB AND THE FUTURE DROUGHT FUND FOR MAKING THIS PROJECT POSSIBLE.



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Department of Agriculture, Fisheries and Forestry
Future Drought Fund
SA DROUGHT HUB

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