

# An Evaluation of Central Queensland Livestock Technology Workshops

Dr. Amy Cosby



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# Dr. Amy Cosby

- Research Fellow – Agri-tech Education and Innovation, CQUniversity Austral
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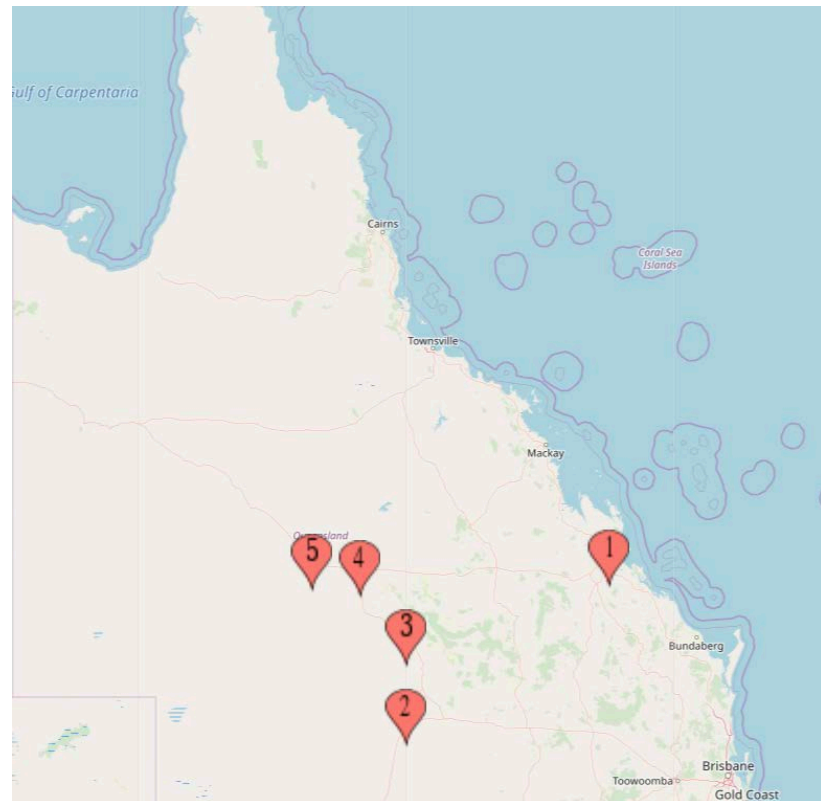
## Education and Experience

- Bachelor of Agriculture/Bachelor of Law, PhD
- Extensive experience in building student, teacher and farmer capacity in agri-tech
- Dairy Farmer, Gippsland, Victoria



# Central Queensland Livestock Technology Workshops

- Funded by the QLD Government 'Training in Emerging and Innovative Industries Fund'
- Five locations in March 2019
  - Rockhampton
  - Longreach
  - Barcaldine
  - Tambo
  - Charleville



# Participants

**We did have over 80 people registered but....**



**.... so we ended up with 44**

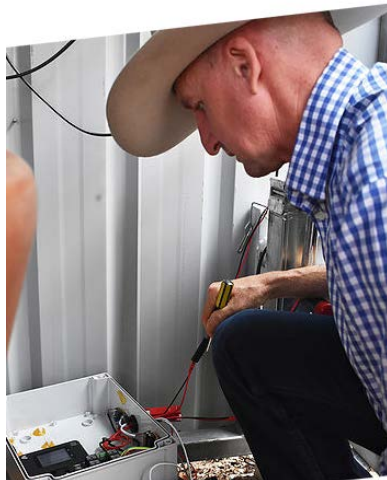
# Evaluation Methods

- Participant Response Systems
  - Demographics
  - To stimulate discussion
- Post-workshop online survey
  - Satisfy funding requirements
  - Future training requirements



# Workshop Content

- Overview of agricultural data
  - Example from dairy sector
  - Clicker questions
  - Small group discussion

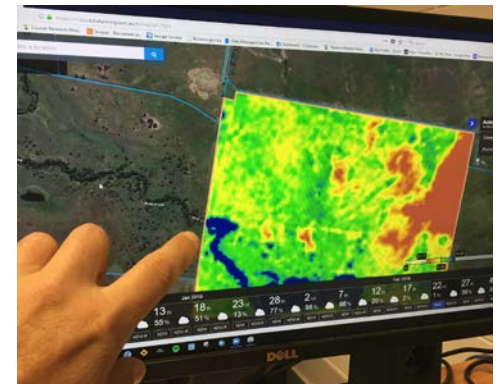
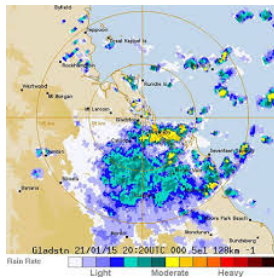


**Cow Production**

Herd group	Cows in test	Milk litres	Protein		Fat		Protein +Fat kg	Average ICCC	Average PI
			kg	%	kg	%			
2 years	26	22.0	0.68	3.08	0.86	3.93	1.54	61	97
3 years	43	27.7	0.84	3.03	0.95	3.42	1.79	103	97
4 years	31	32.6	0.99	3.02	1.09	3.34	2.08	160	103
Mature	84	32.2	1.00	3.10	1.14	3.54	2.14	219	101
<b>All cows 19.10.18am 28/12/06</b>	184	29.8	0.91	3.07	1.05	3.52	1.96	166	
<b>District 03.01.19</b>		23.4	0.76	3.25	0.91	3.89	1.67	292	

# Workshop Content

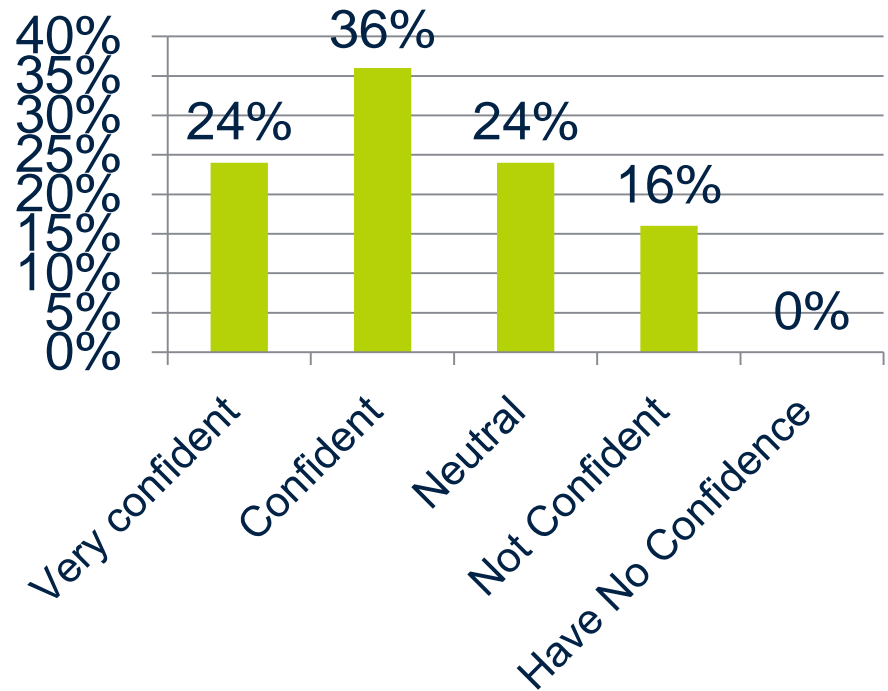
- DataMuster
  - Demonstration of software
- Remote Sensing
  - Hand—on activity setting own property up on DataFarming
- Emerging on-animal sensing technology
  - Presentation on GPS livestock tracking and activity monitoring



# Results – Clicker questions

How confident are you using data to support decisions?

- Very confident
- Confident
- Neutral
- Not Confident
- Have No Confidence

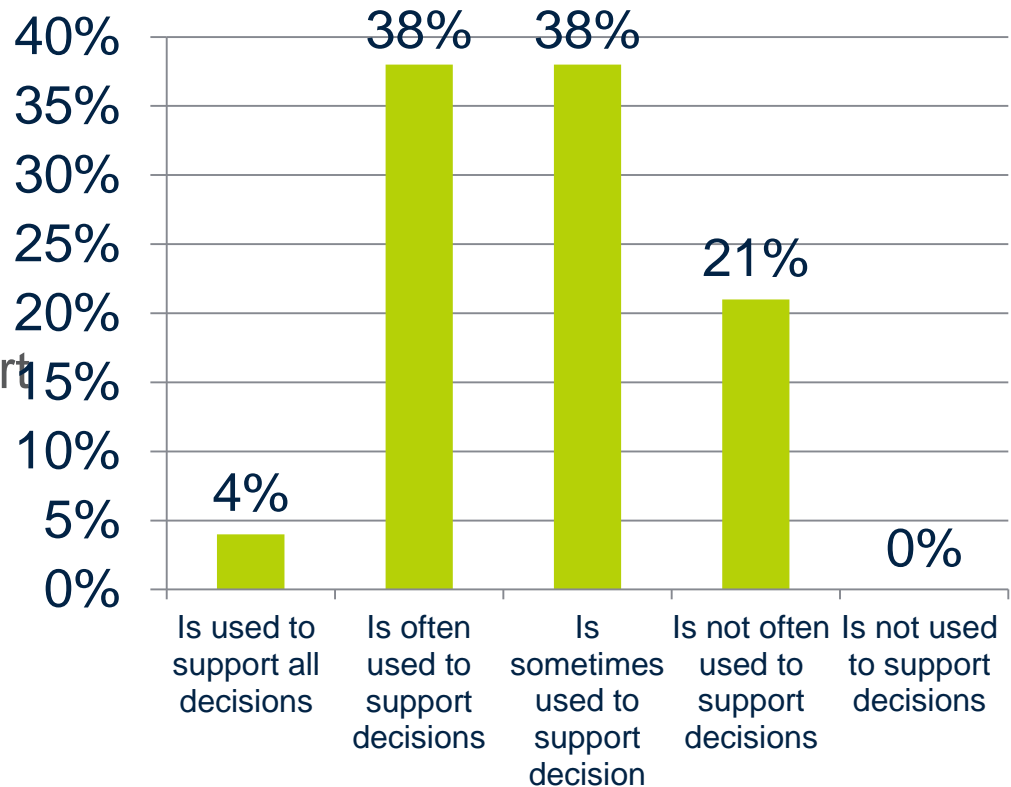




# Results – Clicker questions

How would you describe the influence data has currently on your decision-making?

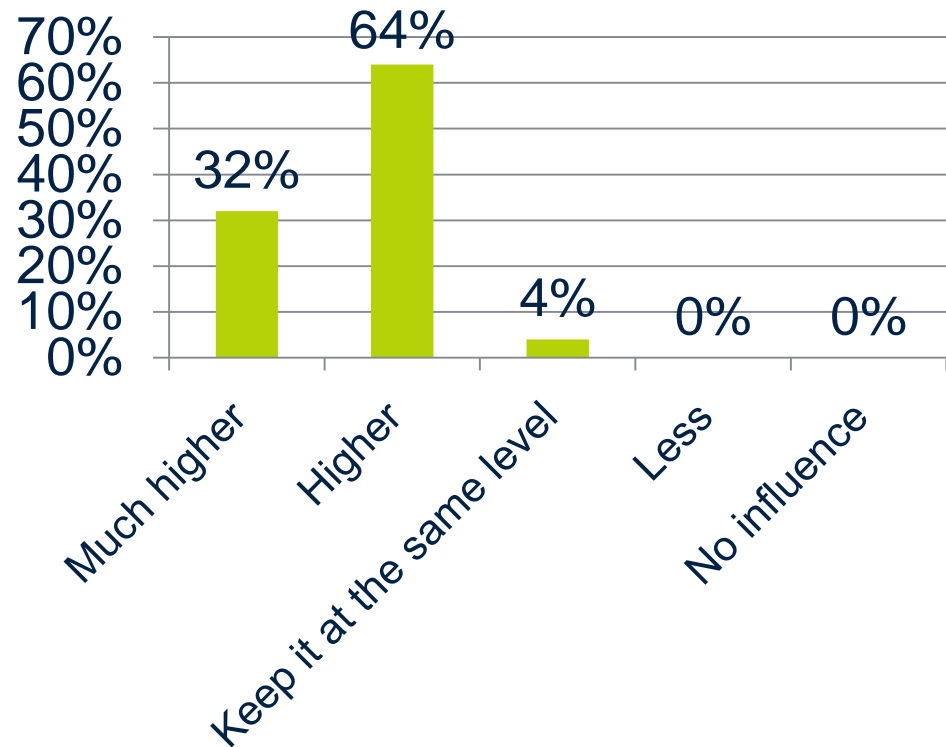
- Is used to support all decisions 40%
- Is often used to support decisions 38%
- Is sometimes used to support decision 38%
- Is not often used to support decisions 21%
- Is not used to support decisions 0%



# Results – Clicker questions

What influence would you like data to have on your decision making?

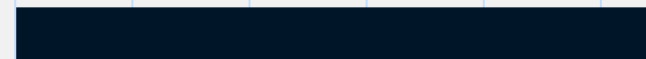
- Much higher
- Higher
- Keep it at the same level
- Less
- No influence



# Results – Post evaluation survey

## What skills would you like to develop in future training workshops?

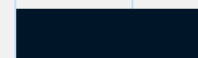
e. How to use certain agri-tech tool and/or system, e.g. DataFarming, DataMuster



d. How to analyse your own farm data e.g. create pivot tables, graphs



c. How to enter data



b. How to use computer software e.g. Microsoft Excel



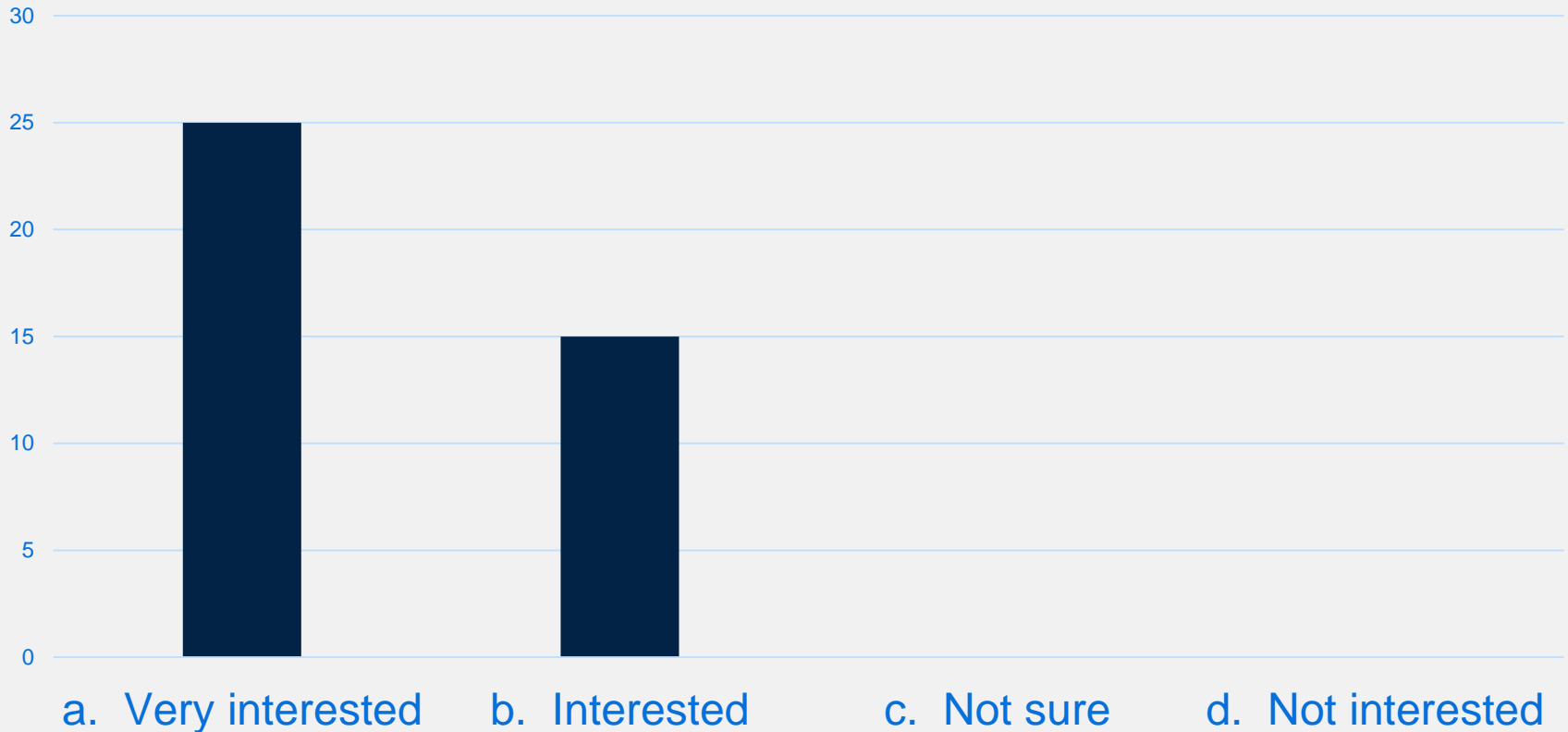
a. Basic Computer Skills



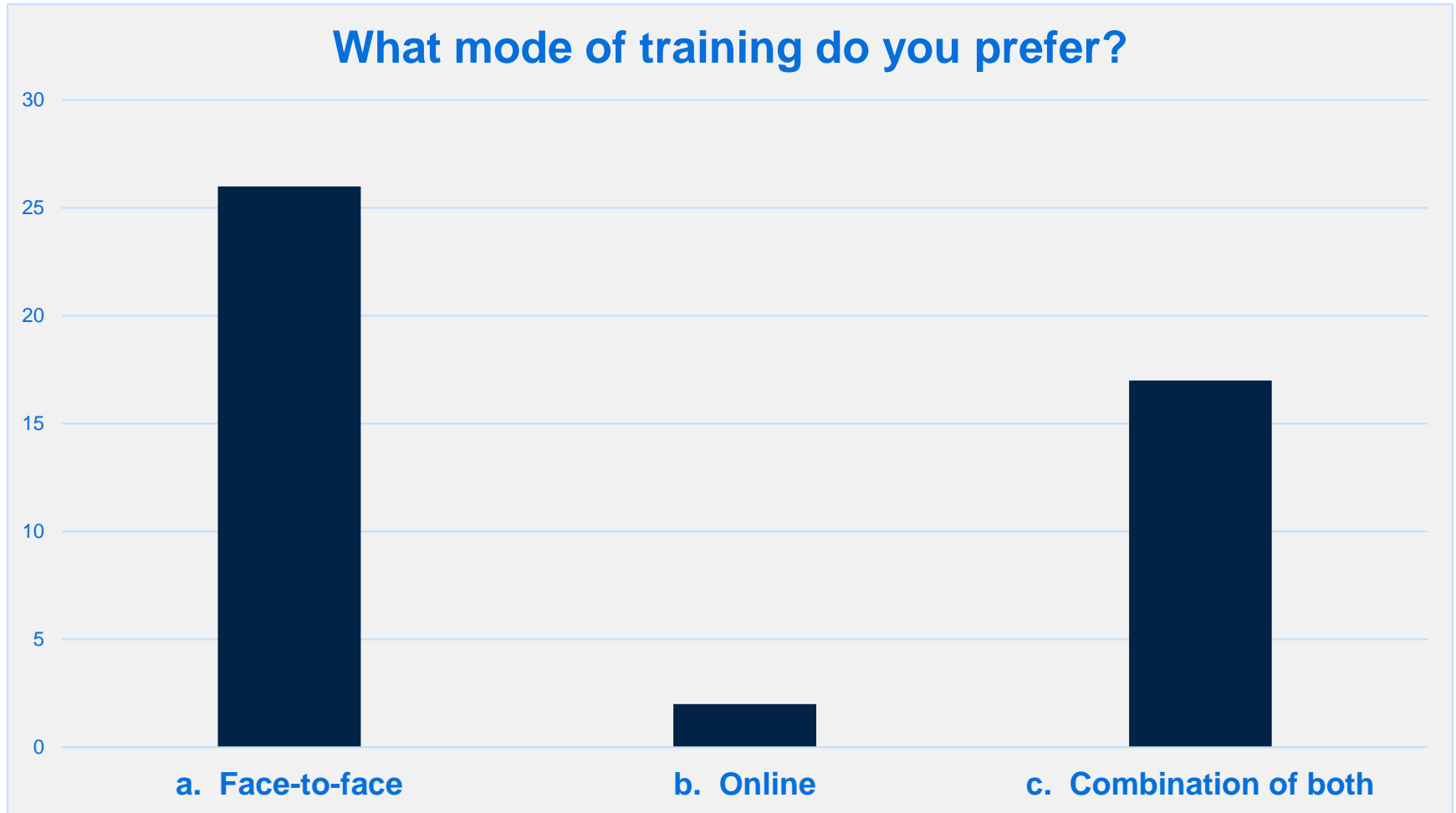
0 5 10 15 20 25 30 35

# Results – Post evaluation survey

How interested are you in future workshops that assist with data collection and interpretation?



# Results – Post evaluation survey



# Results – Post evaluation survey

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
<b>I enjoyed the variety of topics covered</b>	24	20			
<b>The session duration was sufficient enough to provide an overall understanding of livestock technologies</b>	15	25	3		
<b>I am satisfied this workshop will assist me through the impact of digital disruption of the agricultural industry</b>	14	28	1	1	
<b>I am satisfied the workshops will assist me to transition and adopt new practices.</b>	17	23	1	3	

# Summary

- There is an appetite from producers for more training in data analysis.
- The range in the level of knowledge of how to use data on farm, current and emerging livestock technology is vast.
- Face-to-face training is still the preferred method