

Technology in beef breeding & backgrounding as part of an integrated supply chain

Ben Dwyer, CEO
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ACC/ACBH SUPPLY CHAIN

- 5.2 million acres throughout Queensland
- 250,000hd of cattle
- 50,000hd standing feedlot capacity
- Primary Processing
 - 345,000hd p.a. processing capacity
 - 88,000t carcass, 28,000t offal and 27,000t export
- Further Processing
 - Value-Add 13 million kgs p.a.
 - Retail Ready 16 million kgs p.a.



BREEDING

- Individual animal data from branding
 - NLIS tag
 - Weaner weights
 - Calving %
 - Genetic mix



BACKGROUNDING

- Crush side computers capturing individual animal data at induction and handling
- Automated drafting systems & crushes enabling crush side decision making ability based on data



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- Hitachi Process Intelligence Dashboard: Data analysis for predictability and forecasting turn-off into ACC Feedlots
 - Spatial Hub Mapping – pasture management, strategic infrastructure development



FEEDLOTS

- Individual cattle data captured every time the animal is handled
- Induction
- Treatments
- Check weighs
- Exit



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- Feed consumption and conversion performance
 - Specialised nutritional rations
 - Average Daily Gain



PROCESSING

- Processing Facility at Cannon Hill collects data indicates meat eating quality by animal
- Carcass grading
- Yield data



THE POWER OF DATA

- Data feed from the supply chain is key to Breeding and Backgrounding decision making
- Meat eating quality data supports genetic changes in breeding herd
- Predictive/forecasting tools for backgrounding properties manage capacity, intake and turn-off into ACC Feedlots



WHAT'S NEXT?

- Use of drones to capture pasture and environmental data, infrastructure maintenance, livestock water monitoring
- HPI dashboard to have intelligent reporting functions to alert on variations to normal
- Virtual fencing
- Capture livestock density on an individual animal basis to predict growth performance and turn off window using either drone or satellite



Thank you?

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