

# Centre for Agricultural Engineering

# Machine vision for meat chicken monitoring

Dr Cheryl McCarthy and Dr Derek Long



**Chicken Meat** 

#### cheryl.mccarthy@usq.edu.au

- Chicken is a major global source of protein for human consumption
- Weight and health monitoring of commercial flocks are manual human tasks
- Novel machine vision technologies have been developed to complement human tasks with potential benefits for production and welfare

## **Existing camera technologies**

analyse background pixels or use top view images of chickens





## **Proof-of-concept technology**

for chicken detection from oblique view



## Conclusion

### Results

#### of image analysis



A single low-cost video camera can measure multiple flock attributes in commercial shed conditions, to provide real-time alerts to the farmer

#### Acknowledgements: AgriFutures Chicken Meat Program, project steering committee and farm sites

CRICOS QLD00244B NSW 02225M TEQSA:PRV12081