

# Proposals to develop/validate remote monitoring technology in extensive grazing industries

@FMCentre

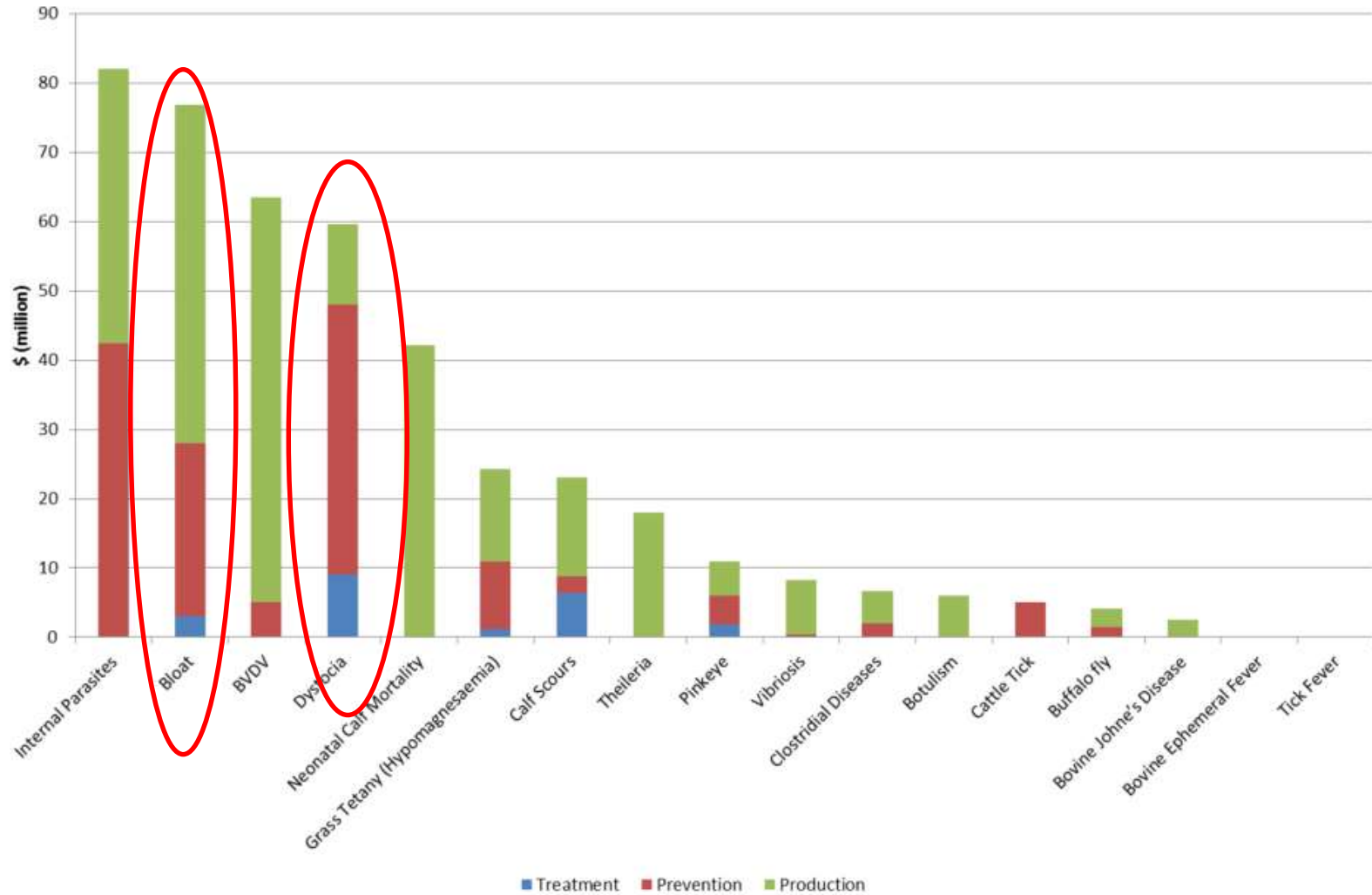
Shawn McGrath  
Fred Morley Centre  
School of Animal and Veterinary Sciences  
Charles Sturt University



## SCR – applications in the dairy industry

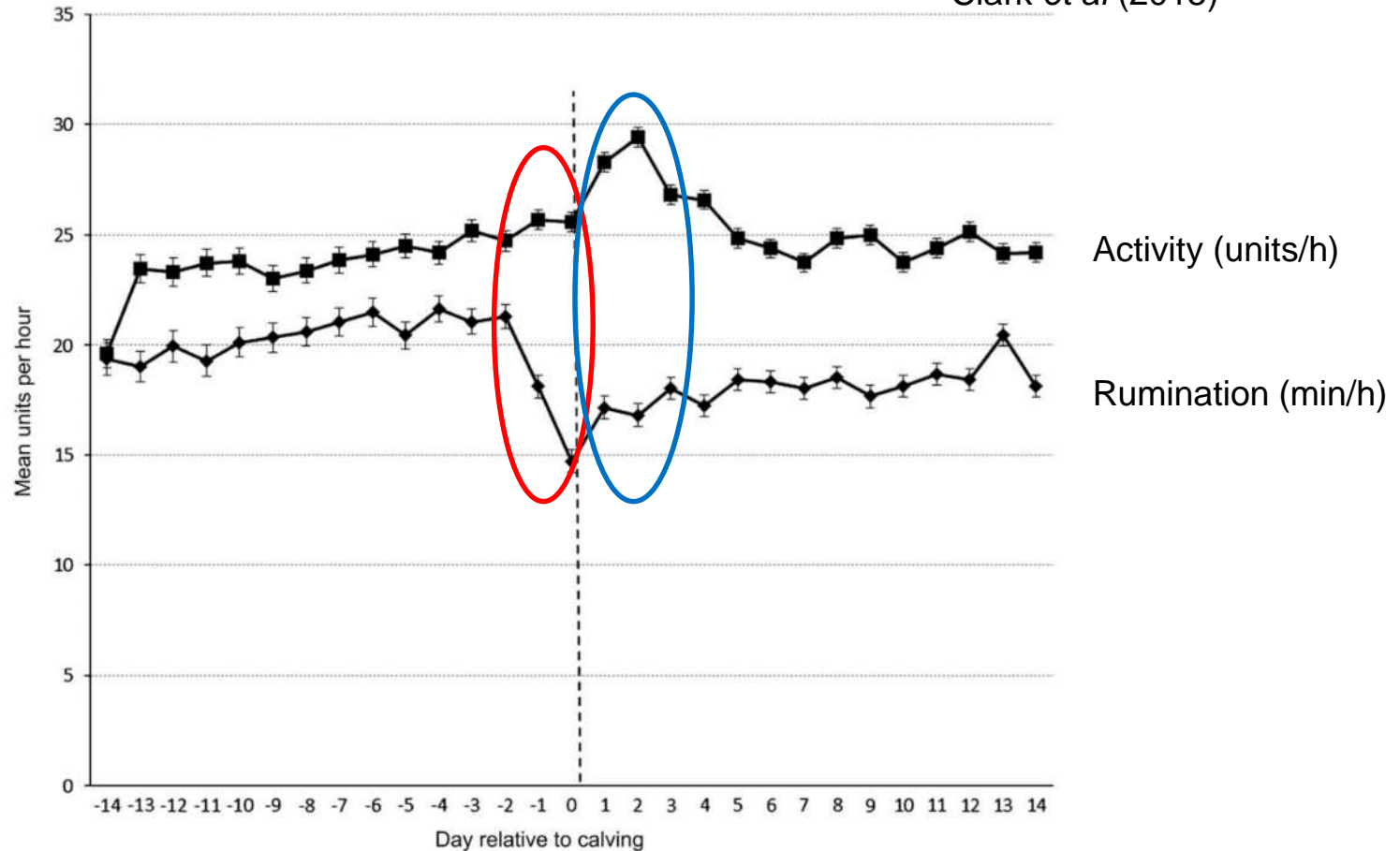


## Estimated annual economic cost to southern cattle industry (Lane *et al* 2015)



# Remote monitoring of cattle during calving - dairy

Clark *et al* (2015)

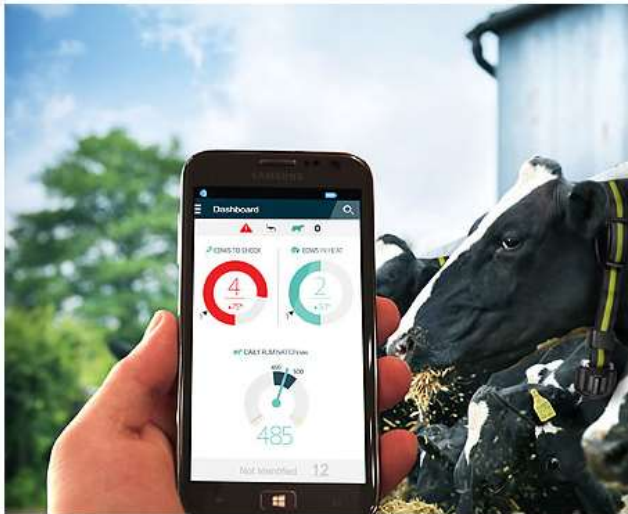






# Can we use remote monitoring to identify when animal behaviour is indicative of bloat risk?

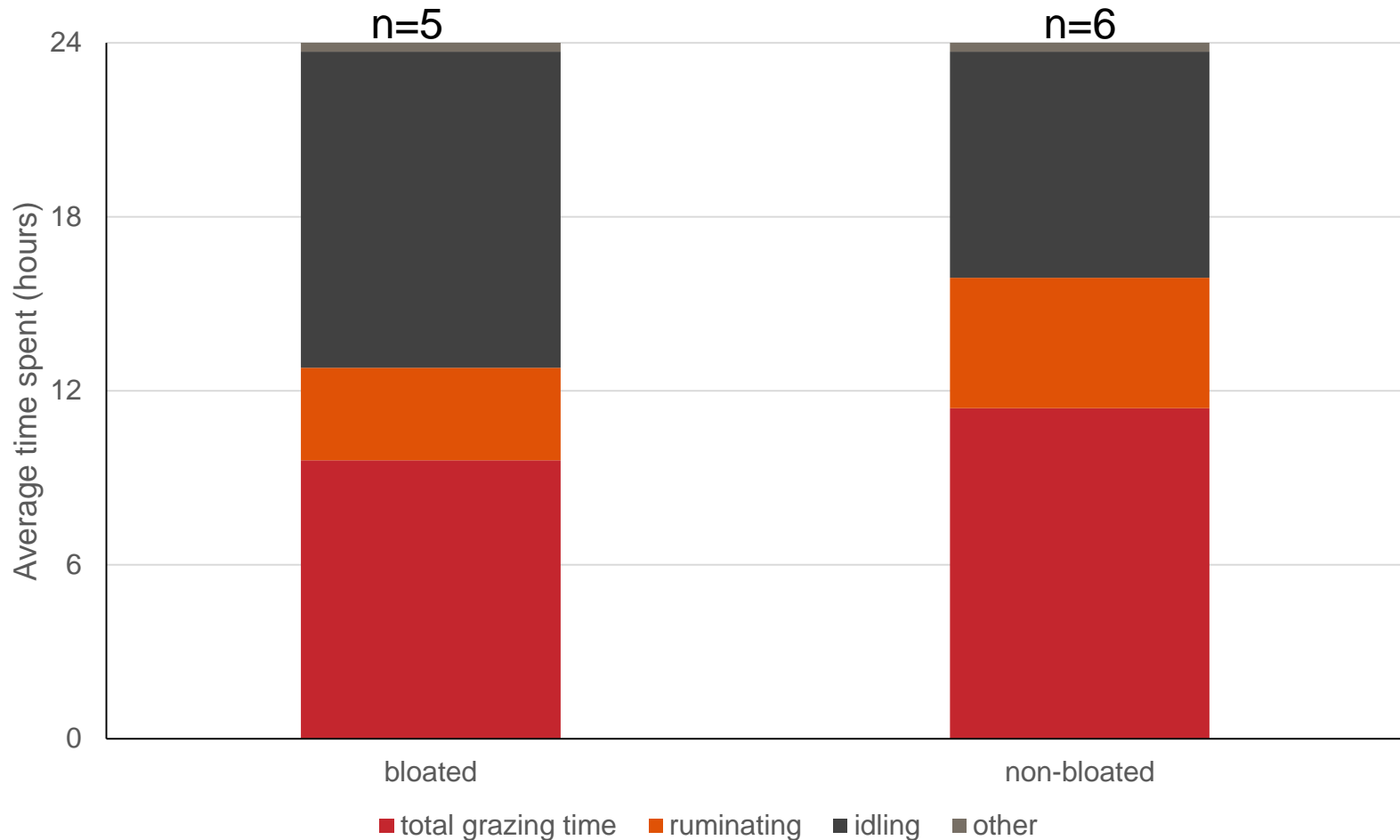
## HealthyCow24<sup>®</sup> Solution



An animal with frothy bloat. From <http://vernon.edu>

# Bloated v. non-bloated steers - Time spent on different activities

Min *et al.* (2013)





# Lucerne and Phalaris (1:1) (cvv. *SARDI 10* and *Advanced AT*)



Photo courtesy Shane Hildebrand and Graeme Sandral, NSW DPI

# Robotics – use in grazing systems

- Collaboration with ACFR (USyd) and Graminus Consulting
- Grazing Systems
- Pasture quantity and quality
- Decision Support Tools



Photo of SwagBot: Australian Centre For Field Robotics  
<http://confluence.acfr.usyd.edu.au/display/AGPub/Our+Robots>