

PROJECT TITLE	PROJECT SUMMARY	PRINCIPAL INVESTIGATOR	MLA 2020 STRATEGIC PILLAR/S
Designing farm specific nematode control programs for sheep	A MLA review of existing sheep nematode models found that individually and combined, existing models cannot adequately evaluate integrated parasite control strategies under a range of climate change scenarios. This proposal seeks to address this gap.	University of New England	Pillar 1 Consumer and community support
Advancing the agronomy package for tederas to fill feed-gaps	This project proposes the development of an agronomy package for Tederas in advance of commercial release, unlike the process applied to other cultivar development where a researcher develops an agronomy package well after release. It also outlines a different research approach that links research AND demonstration sites and will include established sites over two-years old.	WA Department of Agriculture and Food	Pillar 1 Consumer and community support Pillar 4 Productivity and profitability
Piloting an automated endemic disease investigation service for sheep producers	The aim of this project is to create a tool to assist producers analysing and interpreting the data received through Livestock Data Link (LDL) and make better business decisions. Based on LDL animal health data (condemnations, trimming, etc), prevention and treatment cost, production loss, the tool will estimate the cost benefit of improving disease control on-farm. It will help producers identify whether it is profitable or not to implement a prevention or treatment strategy for certain diseases on their farm.	Herd Health Pty Ltd	Pillar 1 Consumer and community support
New option for monitoring drench resistance and movement of Barber's Pole Worm	This project proposes to develop a DNA-based test consisting of a genome-wide collection of neutral markers to detect changes in <i>H. contortus</i> populations on individual farms, with a view to (a) detect migration of parasites from farm to farm and (b) detect genetic changes in parasite resistance over time.	CSIRO	Pillar 1 Consumer and community support
Testing and verification of a single-dose cattle tick vaccine	This proposal is to build on considerable previous research by this group and others to develop and validate an effective single-dose vaccine against cattle ticks that can be incorporated into extensive cattle management systems.	Queensland Alliance for Agriculture and Food Innovation	Pillar 1 Consumer and community support
Addressing feed supply and demand through total grazing pressure management	Managing total grazing pressure is a fundamental aspect of sustainable and profitable livestock production in the rangelands, but is challenging in the presence of non-domestic herbivores. This project proposes to form a coalition of producers, researchers, extension agencies, policy makers and NRM bodies across four states to review current knowledge and identify information gaps for TGP management. This would then be used to develop a research, development and adoption investment plan for TGP management in southern Australian rangelands.	NSW Department of Primary Industries	Pillar 1 Consumer and community support Pillar 4 Productivity and profitability
Social acceptability of pest animal management in meeting TGP targets	The project aims to develop messages from industry to community to ensure pest animal management can continue.	NSW Department of Primary Industries	Pillar 1 Consumer and community support
Developing a mixed farming systems RDA program	The proposal is to develop an investment plan for future research, development and adoption that better integrates cropping and livestock into mixed farming enterprises.	Charles Sturt University	Pillar 1 Consumer and community support Pillar 4 Productivity and profitability
The profitable integration of cropping and livestock in Southern Australia	This proposal seeks to determine how profitability of mixed farming systems can be optimised through synergies between cropping and livestock enterprises.	Rural Directions	Pillar 4 Productivity and profitability
ParaBoss for cattle parasites	This project proposes to consolidate existing knowledge of cattle parasite management into ParaBoss, an existing free-access, online resource developed for sheep producers.	Queensland Department of Agriculture and Fisheries	Pillar 1 Consumer and community support
Progressing superior tropical grasses and legumes in seasonally-dry Queensland	This project proposes to extend current, MLA-funded research involving independent assessment of novel tropical pasture species to test combinations of the better performing species in larger, replicated field plot trials including response to grazing.	Queensland Department of Agriculture and Fisheries	Pillar 1 Consumer and community support Pillar 4 Productivity and profitability
Legume best management practice in the Brigalow belt bio-region	This project seeks to increase the productivity of grass pastures in the Brigalow Belt through more reliable and successful adoption of legumes.	Queensland Department of Agriculture and Fisheries	Pillar 1 Consumer and community support Pillar 4 Productivity and profitability
Area-wide control of buffalo fly and prevention of southward spread using Wolbachia	The proposal aims to reduce buffalo fly populations as has been seen with mosquitoes, and/or reduce disease transmission. It is risky novel work and options may emerge as the work progresses. Practical release strategies are a long way off for this high risk, potentially high return, blue sky research proposal that fits well in the current MLA RD&A portfolio.	University of Queensland	Pillar 1 Consumer and community support
Exploring profitability and resilience through novel livestock and pasture adaptation to future climates	This modelling proposal seeks to identify adaptation options to increase profitability of sheepmeat and beef grazing systems under a range of climate challenges.	University of Melbourne	Pillar 1 Consumer and community support Pillar 4 Productivity and profitability
A Leg Up	This proposal focuses on new graduates already working in the red meat and livestock industry to increase their knowledge through mentoring with experienced professionals.	Meridian Agriculture	Pillar 4 Productivity and profitability
Supplementation to reduce the impact of mycotoxins and insufficient magnesium	This project proposes to investigate underlying mechanisms for the effect of magnesium deficiency on muscle glycogen metabolism and meat quality (dark cutting), and to determine the practical efficacy of magnesium supplementation and mycotoxin binders for increasing growth performance and decreasing the incidence of dark cutting in beef cattle.	Murdoch University	Pillar 4 Productivity and profitability
Positive, Proficient Professionals (PPP) in RDA	This proposal seeks to review the challenges and develop strategies for attracting and retaining RD&A professionals in the red meat industry by: developing an inventory of new, current and past industry participants; reviewing other programs to design a program for the livestock industry and recommending to MLA the steps to implement to build a more inclusive culture; and completing a desktop review of development and retention of people in industry.	AgStar Projects	Pillar 4 Productivity and profitability
Early Life Supplements to Enhance Rumen Efficiency	This proposal seeks to explore novel options for manipulating the rumen microbiota of new-born cattle in order to increase efficiency of energy and nitrogen utilisation in later life.	CSIRO	Pillar 4 Productivity and profitability