2017-18 Investment Call 12 Proposals							
Project code	Proposal Title	Lead Investigator	Research Organisation	Project Summary			
L.LSM.0015	New approaches to increase the weaning rate of the national sheep-flock	Dr David OKleemann and Dr William vanWettere	South Australian Research and Development Institute	This proposal aims to test the efficacy of a range of dietary additives fed to ewes during late pregnancy to enhance perinatal brain oxygenation and thence improve lamb survival.			
B.GBP.0023	Improving beef production through management of plant toxins	Mary Fletcher	University of Queensland (QAAFI)	This project proposes to produce a rumen inoculum with microbes able to detoxify the Pimelea toxin, simplexin, and investigate absorbent/slow-release systems for the rumen that would have broad utility across a range of plant toxins			
B.GBP.0026	Feeding Leucaena to manage the rumen for maximum beef profit	Ed Charmley/Chris McSweeney Athol Klieve Diane Ouwerkerk	CSIRO Agriculture and Food University of Queensland The State of Queensland acting through the Department of Agriculture and Fisheries	This proposal seeks to evaluate the psyllid-resistant Leucaena cultivar, Redlands, in terms of the efficacy of the current S. jonesii inoculum for denaturing Leucaena toxin, as well as cattle growth performance and methane emissions. Establishment of the range and extent of land suitable for growing Leucaena cultivars also is proposed.			
B.ERM.0108	Grazing strategies and tools to improve profitability and land condition	Peter O'Reagain	The State of Queensland acting through the Department of Agriculture and Fisheries	This proposal seeks to extend outcomes of the long-term Wambiana Grazing Trial by evaluating adaptive, flexible stocking rates and wet season spelling at Wambiana and four additional commercial property demonstration sites.			
B.AWW.0260	Development of a single shot immunocontraceptiv e vaccine for cattle	Michael Holland Michael McGowan	University of Queensland	This proposal aims to develop a single shot vaccine based on immunisation against proteins or peptides in the zona pellucida of the ovary that will cause infertility in heifers and cows for at least 12 months. If successful, this could be a welfare-friendly alternative to surgical ovariectomy (spaying).			
L.LSM.0011 Project complete	Maximising the value of eID technology for sheep producers	Hamish Dickson	AgriPartner Consulting	This proposal aims to model various management systems available to sheepmeat producers and conduct cost benefit analyses of the implementation of eID technology to inform management decisions under these different scenarios.			

B.AHE.0318 More information here	Reducing foetal and lamb losses in young ewes	Caroline Jacobson	Murdoch University	This proposal aims to use participatory research on multiple sites across southern Australia to determine the extent and timing of reproductive wastage between pregnancy diagnosis and marking in young ewes, and the contribution of maternal infections during late pregnancy to these losses.
L.LSM.0013	Managing fecund flocks to improve survival of triplet dams and their lambs	Andrew Thompson	Murdoch University	This proposal aims to define the scale of triplet-bearing ewe and lamb mortalities in Australia and conduct participatory research to develop and demonstrate best management practices on commercial farms to reduce these mortalities, including evaluation of the potential benefits of scanning for triplets.
L.LSM.0014	Boosting lamb survival by supplementing ewes with vitamins and minerals	Andrew Thompson	Murdoch University	This project proposes to evaluate the effects of supplementation of latepregnant ewes with vitamin E plus selenium and vitamin D on lamb survival to marking on a range of commercial properties across southern Australia. For further information on this project, please contact Joe Gebbels, Sheep and Goat Productivity Program Manager jgebbels@mla.com.au
B.GBP.0024 Project complete	The gateway to selecting for nutrient efficient livestock – "Better Doers"	Jude Bond	NSW Department of Primary Industries	This proposal represents an amalgamation of two independent preproposals focussing on (a) identification of rumen epithelial genes and their products and (b) muscle mitochondrial density as possible tissue markers for efficiency of nutrient utilisation in sheep and cattle.
B.GBP.0029 <u>More</u> information <u>here</u>	"The Sweet Spot": Improving breeder herd performance through optimal pasture utilisation	Robyn Cowley Kieren McCosker	The Northern Territory of Australia, represented by the Department of Primary Industry and Resources	This proposal seeks to use existing datasets on pasture utilisation by breeding herds in northern Australia to develop modelling tools to predict the effect of stocking rate on reproductive efficiency and optimise pasture use to increase weaning rates and reduce breeder mortality, while maintaining the feedbase.
B.GBP.0025 Project complete	Grazing with Self Herding	Dean Revell	Rangelands NRM	This proposal seeks to evaluate the implementation of Rangeland Self Herding (RSH) methods (e.g. rangelot flushing, managed movements) to improve grazing management and thus, nutrition and productivity of extensively managed breeder herds. Benefits to environmental management and land condition are associated objectives.