

2016/17 MLA annual project call research, development and adoption priorities

NOTE: The 2016/17 MLA annual project call will open 18 January 2016 and close 14 February 2016

2016/17 priority	Focus						
<p>INTEGRATION OF CROPPING AND LIVESTOCK (SOUTHERN SHEEP FOCUS)</p> <ul style="list-style-type: none"> • SCOPING ACTIVITY TO BETTER DEFINE THE SYSTEMS OPPORTUNITY CONSIDERING CHANGES IN FUTURE CLIMATE, TECHNOLOGIES, LIVESTOCK AND PASTURES <p>Fit with the Meat Industry Strategic Plan 2020 Productivity and profitability</p> <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Increasing livestock productivity through new research <p>Consumer and community support</p> <ul style="list-style-type: none"> • Welfare of the animals in our care <ul style="list-style-type: none"> ○ Minimising the impact of endemic diseases • Stewardship of environmental resources <ul style="list-style-type: none"> ○ Sustainable management of the natural environment <p>Key performance indicators</p> <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 • Increase in community support for our industry animal welfare practices on 2015 baseline • Maintenance or increase in community support for the industry’s environmental stewardship practices 	<p>Southern and western sheepmeat</p>						
<p>ADAPTATION OF TROPICAL PASTURE SPECIES AND COMPANION LEGUMES IN NEW AREAS</p> <table border="1" data-bbox="163 934 2597 1335"> <thead> <tr> <th data-bbox="163 934 1261 976">Fit with the Meat Industry Strategic Plan 2020</th> <th data-bbox="1261 934 1855 976">Fit with the Sheep Industry Strategic Plan 2020</th> <th data-bbox="1855 934 2597 976">Fit with the Beef Industry Strategic Plan 2020</th> </tr> </thead> <tbody> <tr> <td data-bbox="163 976 1261 1335"> <p>Productivity and profitability</p> <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Increasing livestock productivity through new research <p>Consumer and community support</p> <ul style="list-style-type: none"> • Stewardship of environmental resources <ul style="list-style-type: none"> ○ Sustainable management of the natural environment <p>Key performance indicators</p> <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 • Maintenance or increase in community support for the industry’s environmental stewardship practices </td> <td data-bbox="1261 976 1855 1335"> <p>Develop new technologies and management programs to increase pasture growth rates and persistence, feed utilisation, reproduction rate and survival rates in grazing systems</p> </td> <td data-bbox="1855 976 2597 1335"> <ul style="list-style-type: none"> • Increasing livestock productivity through new research and adoption of current research. • New research with the highest potential productivity gains that will improve profitability in the northern and southern production systems </td> </tr> </tbody> </table>	Fit with the Meat Industry Strategic Plan 2020	Fit with the Sheep Industry Strategic Plan 2020	Fit with the Beef Industry Strategic Plan 2020	<p>Productivity and profitability</p> <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Increasing livestock productivity through new research <p>Consumer and community support</p> <ul style="list-style-type: none"> • Stewardship of environmental resources <ul style="list-style-type: none"> ○ Sustainable management of the natural environment <p>Key performance indicators</p> <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 • Maintenance or increase in community support for the industry’s environmental stewardship practices 	<p>Develop new technologies and management programs to increase pasture growth rates and persistence, feed utilisation, reproduction rate and survival rates in grazing systems</p>	<ul style="list-style-type: none"> • Increasing livestock productivity through new research and adoption of current research. • New research with the highest potential productivity gains that will improve profitability in the northern and southern production systems 	<p>National sheepmeat National grassfed beef</p>
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2016/17 priority	Region/s			
<p>ADAPTATION IN A FUTURE WHOLE FARM SYSTEMS CONTEXT, INCLUDING:</p> <ul style="list-style-type: none"> • PASTURE PERSISTENCE • MOVEMENT OF DISEASES AND PARASITES INTO NEW AREAS • PRODUCTION DATA - CLIMATE CHANGE INTERACTIONS • FILLING REGIONALLY-IDENTIFIED FEED GAPS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; vertical-align: top;"> <p>Fit with the Meat Industry Strategic Plan 2020 Productivity and profitability</p> <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Increasing livestock productivity through new research <p>Consumer and community support</p> <ul style="list-style-type: none"> • Welfare of the animals in our care <ul style="list-style-type: none"> ○ Minimising the impact of endemic diseases • Stewardship of environmental resources <ul style="list-style-type: none"> ○ Sustainable management of the natural environment <p>Key performance indicators</p> <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 • Increase in community support for our industry animal welfare practices on 2015 baseline • Maintenance or increase in community support for the industry’s environmental stewardship practices </td> <td style="width: 33%; vertical-align: top;"> <p>Fit with the Sheep Industry Strategic Plan 2020</p> <ul style="list-style-type: none"> • Improve existing, and develop new, sheep/cropping systems for the production of quality lambs and sheepmeat from the wheat/sheep agro climatic zone • Undertake an ongoing RD&E program to reduce the impacts of major endemic diseases in the national sheep flock and increase uptake of the Sheep Health Statement </td> <td style="width: 33%; vertical-align: top;"> <p>Fit with the Beef Industry Strategic Plan 2020</p> <ul style="list-style-type: none"> • Increasing livestock productivity through new research and adoption of current research. • New research with the highest potential productivity gains that will improve profitability in the northern and southern production systems • Quantify costs of endemic disease to the cattle industry </td> </tr> </table>	<p>Fit with the Meat Industry Strategic Plan 2020 Productivity and profitability</p> <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Increasing livestock productivity through new research <p>Consumer and community support</p> <ul style="list-style-type: none"> • Welfare of the animals in our care <ul style="list-style-type: none"> ○ Minimising the impact of endemic diseases • Stewardship of environmental resources <ul style="list-style-type: none"> ○ Sustainable management of the natural environment <p>Key performance indicators</p> <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 • Increase in community support for our industry animal welfare practices on 2015 baseline • Maintenance or increase in community support for the industry’s environmental stewardship practices 	<p>Fit with the Sheep Industry Strategic Plan 2020</p> <ul style="list-style-type: none"> • Improve existing, and develop new, sheep/cropping systems for the production of quality lambs and sheepmeat from the wheat/sheep agro climatic zone • Undertake an ongoing RD&E program to reduce the impacts of major endemic diseases in the national sheep flock and increase uptake of the Sheep Health Statement 	<p>Fit with the Beef Industry Strategic Plan 2020</p> <ul style="list-style-type: none"> • Increasing livestock productivity through new research and adoption of current research. • New research with the highest potential productivity gains that will improve profitability in the northern and southern production systems • Quantify costs of endemic disease to the cattle industry 	<p>Southern and western sheepmeat Southern and western grassfed beef</p>
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<p>MANAGING TOTAL GRAZING PRESSURE (TGP) IN EXTENSIVE LIVESTOCK PRODUCTION SYSTEMS:</p> <ul style="list-style-type: none"> • REVIEW PAST AND CURRENT RD&A INCLUDING NORTHERN RD&A • EXTEND FOR INDUSTRY TO ADOPT <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; vertical-align: top;"> <p>Fit with the Meat Industry Strategic Plan 2020 Productivity and profitability</p> <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Increasing livestock productivity through new research <p>Consumer and community support</p> <ul style="list-style-type: none"> • Welfare of the animals in our care <ul style="list-style-type: none"> ○ Continuous improvement of animal welfare • Stewardship of environmental resources <ul style="list-style-type: none"> ○ Sustainable management of the natural environment <p>Key performance indicators</p> <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 • Increase in community support for our industry animal welfare practices on 2015 baseline • Maintenance or increase in community support for the industry’s environmental stewardship practices </td> <td style="width: 33%; vertical-align: top;"> <p>Fit with the Sheep Industry Strategic Plan 2020 Develop new technologies and management programs to increase pasture growth rates and persistence, feed utilisation, reproduction rate and survival rates in grazing systems</p> </td> <td style="width: 33%; vertical-align: top;"> <p>Fit with the Beef Industry Strategic Plan 2020</p> <ul style="list-style-type: none"> • Increasing livestock productivity through new research and adoption of current research. • New research with the highest potential productivity gains that will improve profitability in the northern and southern production systems </td> </tr> </table>	<p>Fit with the Meat Industry Strategic Plan 2020 Productivity and profitability</p> <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Increasing livestock productivity through new research <p>Consumer and community support</p> <ul style="list-style-type: none"> • Welfare of the animals in our care <ul style="list-style-type: none"> ○ Continuous improvement of animal welfare • Stewardship of environmental resources <ul style="list-style-type: none"> ○ Sustainable management of the natural environment <p>Key performance indicators</p> <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 • Increase in community support for our industry animal welfare practices on 2015 baseline • Maintenance or increase in community support for the industry’s environmental stewardship practices 	<p>Fit with the Sheep Industry Strategic Plan 2020 Develop new technologies and management programs to increase pasture growth rates and persistence, feed utilisation, reproduction rate and survival rates in grazing systems</p>	<p>Fit with the Beef Industry Strategic Plan 2020</p> <ul style="list-style-type: none"> • Increasing livestock productivity through new research and adoption of current research. • New research with the highest potential productivity gains that will improve profitability in the northern and southern production systems 	<p>Southern sheepmeat National grassfed beef</p>
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RAPID, COST EFFECTIVE MECHANISM TO GET SUPERIOR BEEF GENETICS INTO NORTHERN COMMERCIAL BEEF HERDS VIA HEIFERS			Northern grassfed beef
Fit with the Meat Industry Strategic Plan 2020 Productivity and profitability <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Decision support to improve farming businesses ○ Increasing livestock productivity through new research Key performance indicator <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 	Fit with the Beef Industry Strategic Plan 2020 Increasing livestock productivity through new research and adoption of current research		
NOVEL FEED STRATEGIES FOR SUPPLEMENTATION: <ul style="list-style-type: none"> • SUPPLEMENTATION PRACTICES • MANAGING GROWTH PATHS • REDUCING TRANSPORT COSTS AND RELIANCE ON HIGH VALUE FEEDS 			National grassfed beef
Fit with the Meat Industry Strategic Plan 2020 Productivity and profitability <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Decision support to improve farming businesses ○ Increasing livestock productivity through new research Key performance indicator <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 	Fit with the Beef Industry Strategic Plan 2020 <ul style="list-style-type: none"> • Increasing livestock productivity through new research and adoption of current research • New research with the highest potential productivity gains that will improve profitability in the northern and southern production systems 		
REDUCING THE ECONOMIC IMPACT OF CATTLE TICK: <ul style="list-style-type: none"> • DEFINE PRODUCTION BENEFITS FROM EFFECTIVE TICK TREATMENT STRATEGIES • MODEL POTENTIAL MOVEMENT SOUTH AND EXPOSURE OF ANIMALS TO DISEASE IN RESPONSE TO CLIMATE CHANGE 			Northern grassfed beef
Fit with the Meat Industry Strategic Plan 2020 Consumer and community support <ul style="list-style-type: none"> • Welfare of the animals in our care <ul style="list-style-type: none"> ○ Minimising the impact of endemic diseases Key performance indicator <ul style="list-style-type: none"> • Increase in community support for our industry animal welfare practices on 2015 baseline 	Fit with the Beef Industry Strategic Plan 2020 Accelerate the application of proven industry practice (R&D) for on-farm disease management Quantify costs of endemic disease to the cattle industry		
SCOPING TOOL TO AID FARM RISK MANAGEMENT (DATA TECHNOLOGY): <ul style="list-style-type: none"> • IDENTIFY TRIGGER POINTS FOR KEY DECISIONS VIA TECHNOLOGY AND DATA USE • HELP MEET MARKET SPECS 			Western sheepmeat National grassfed beef
Fit with the Meat Industry Strategic Plan 2020 Productivity and profitability <ul style="list-style-type: none"> • Production efficiency in farms and feedlots <ul style="list-style-type: none"> ○ Decision support to improve farming businesses Key performance indicator <ul style="list-style-type: none"> • Cost of production (\$/kg liveweight) is reduced by 1.5% in real terms by 2020 and by 5% in real terms by 2030 	Fit with the Sheep Industry Strategic Plan 2020 Evaluate, develop and implement technologies, tools and strategies to reduce the cost of production and to increase labour efficiency	Fit with the Beef Industry Strategic Plan 2020 <ul style="list-style-type: none"> • Increase the percentage of producers that are using proven practices and technology • Greater access to technology for beef enterprises to be able to operate effectively 	

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<p>ATTRACTING NEW AND YOUNG ENTRANTS AND THE BEST BRAINS TO LIVESTOCK R&D AND THE INDUSTRY THROUGH CAREER PATHS AND CULTURE CHANGE:</p> <ul style="list-style-type: none"> • STRATEGIC PARTNERSHIPS THAT INCORPORATE CAREER OPTIONS, ATTRACT AND BUILD CAPACITY • WHAT ATTRACTS YOUNG PEOPLE INTO AGRICULTURE AND SCIENCE? • WHAT ARE OTHER INDUSTRIES ARE DOING TO BUILD THE LONGER TERM CAREER FOR LIVESTOCK INDUSTRIES? • MENTORING PROGRAMS TO PREPARE FOR RETIREMENTS OF LONG TERM-TENURE RESEARCHERS. 			National sheepmeat National grassfed beef
<p>Fit with the Meat Industry Strategic Plan 2020 Leadership and collaborative culture</p> <ul style="list-style-type: none"> • Building industry capacity <ul style="list-style-type: none"> ○ Developing skills and leaders to support the industry ○ Sustainable resourcing for key industry programs and structure <p>Key performance indicator</p> <ul style="list-style-type: none"> • Maintain or increase stakeholder confidence in the industry’s leadership capability 	<p>Fit with the Sheep Industry Strategic Plan 2020 Establish strategies to promote and support career paths and implement professional and skills development capability, including formal governance training, within the industry</p>	<p>Fit with the Beef Industry Strategic Plan 2020 Investment in developing industry leader to allow them to opportunities for further education and skill development</p>	