

Aggregated analysis of economic impacts from AMPC research projects 2019-2025

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Acknowledgements

AMPC and GHD would like to acknowledge the various researchers and industry stakeholders consulted for this project.

Abbreviations

| | |
|-------|--|
| AMIC | Australian Meat Industry Council |
| AMPC | Australian Meat Processor Corporation |
| BCR | Benefit Cost Ratio |
| CRRDC | Council of Rural Research and Development Corporations |
| DAFF | Department of Agriculture, Fisheries and Forestry |
| GDP | Gross Domestic Product |
| IRR | Internal Rate of Return |
| MIRR | Modified Internal Rate of Return |
| MLA | Meat & Livestock Australia |
| NPV | Net Present Value |
| R&D | Research and Development |
| RD&E | Research, Development and Extension |
| RDC | Research and Development Corporation |
| RMAC | Red Meat Advisory Council |
| SLO | Social Licence to Operate |
| VR | Virtual Reality |

1.0 Executive summary

This report presents an aggregate analysis of 60 economic impact assessments of projects funded by the Australian Meat Processor Corporation (AMPC) and completed between 2019/20 and 2024/25. The analysis draws on six years of independent ex-post evaluations conducted by GHD, providing a comprehensive view of the return on investment and broader industry benefits delivered through AMPC's core research, development and evaluation (RD&E) portfolio.

Overall economic impact

In aggregate, AMPC invested approximately \$20.8 million in the projects assessed, representing 34% of its total investment in core projects completed across the six-year period. Through the completion of the annual impact assessments, it was found that the project investments consistently delivered strong economic returns, with weighted average Benefit Cost Ratios (BCRs) ranging from 5.1 to 8.7, with an overall weighted average of 6.2, as presented in Figure 1.

These results are in line with, or exceed, Rural Research and Development Corporation (RDC) benchmarks and confirm the value of AMPC's investments to levy payers and the broader Australian community.

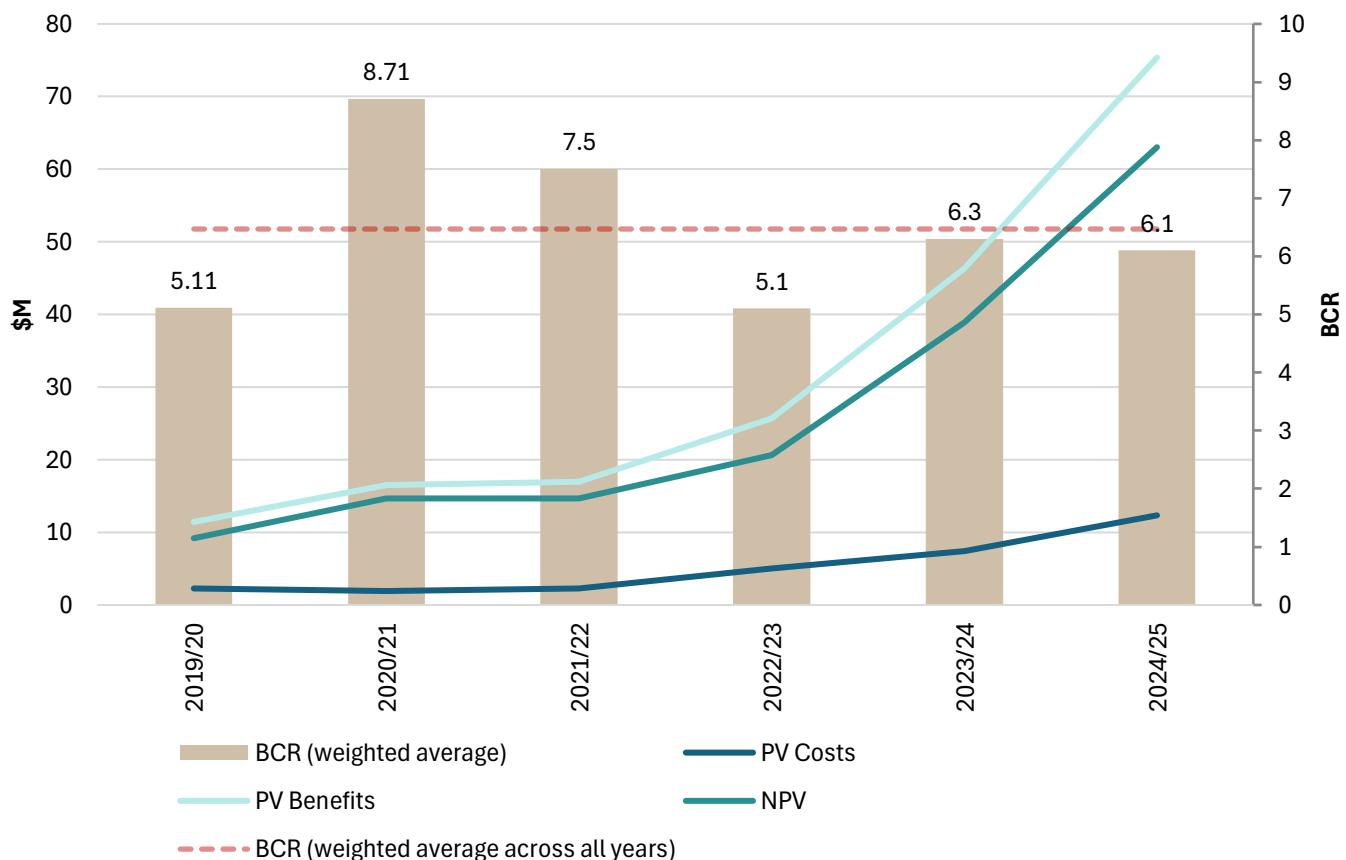


Figure 1 Economic impacts (BCR, PV Costs, PV Benefits, NPV) aggregated across all projects and years (PV Costs, PV Benefits and NPV are plotted against the left vertical axis and BCR is plotted against the right vertical axis)

Triple bottom line impacts

As outlined in Table 1 below, the analysis also highlights increasing contributions from AMPC investments to environmental and social outcomes, with 60% of projects delivering environmental benefits and 75% contributing to social impacts. Further, all projects assessed demonstrated alignment with at least one Australian Government RD&E priority, with particularly strong alignment to digital agriculture, climate resilience, and trusted exporter of premium food outcomes.

Table 1 *Triple bottom line aggregate impacts*

| Impacts | Common Themes | Occurrence | Examples |
|---------------|--|------------------|---|
| Economic | Cost savings, productivity gains, reduced waste, improved yield, avoided regulatory costs, increased market access | 100% of projects | <ul style="list-style-type: none"> ◆ Reduced training costs (virtual reality (VR) modules) ◆ Premiums from improved grading (MEQ probe) ◆ Avoided landfill fees (plastics diversion) ◆ Reduced admin and export rejections (Meat Messaging) |
| Environmental | Energy efficiency, waste reduction, emissions avoidance, improved resource use | 60% of projects | <ul style="list-style-type: none"> ◆ Reduced energy use via better grading and cooling systems ◆ Diverted plastics from landfill ◆ Reduced food and packaging waste from export rejections |
| Social | Improved training, wellbeing, community perception, workforce diversity, social licence to operate | 75% of projects | <ul style="list-style-type: none"> ◆ VR training improving safety and accessibility ◆ Careers portal supporting youth and women in trades ◆ More to Meat campaign enhancing public trust and industry reputation ◆ AI systems improving animal welfare and transparency |

Economic impact by program stream

Table 2 provides a breakdown of the PV Costs, PV Benefits, NPV and weighted average BCR across the impact assessments by program stream. This analysis has been completed based on the individual project/cluster impact assessments completed from 2020/21 to 2024/25, i.e. during the period of the AMPC Strategic Plan 2020–2025 (Australian Meat Processor Corporation, 2020).

The weighted average BCRs by program stream ranged from 5.1 for projects aligned with the Product & Process Integrity program to 7.3 for Advanced manufacturing.

Table 2 Results from annual impact assessments (30 years, 5% discount rate)

| Program Stream | PV Cost (\$m) | PV Benefits (\$m) | NPV | BCR |
|-----------------------------------|---------------|-------------------|---------|-----|
| Advanced Manufacturing | \$9.24 | \$67.33 | \$58.09 | 7.3 |
| Sustainability | \$3.42 | \$20.85 | \$17.43 | 6.1 |
| Product & Process Integrity | \$4.68 | \$23.92 | \$19.24 | 5.1 |
| People & Culture | \$2.02 | \$10.64 | \$8.62 | 5.3 |
| Technical Market Access & Markets | \$9.56 | \$58.06 | \$48.50 | 6.1 |

Across all years, high-level findings in the modelling consistently demonstrated that most benefits from project investments will be realised within five to ten years of project completion. This is typical of rural RD&E as innovations often take up to five years to become fully developed and adopted. After 10 years, many innovations are likely to be superseded, or similar outcomes achieved, under the counterfactual scenario.

To demonstrate this point, the accumulation of benefits and costs from all 60 of the selected projects/clusters is presented in Figure 2. It is important to note that this presentation is for illustrative purposes only, as it presents the aggregate results from all impact assessments for year 0 to year 30 irrespective of whether year 0 was 2019/20 or 2024/25 for example.

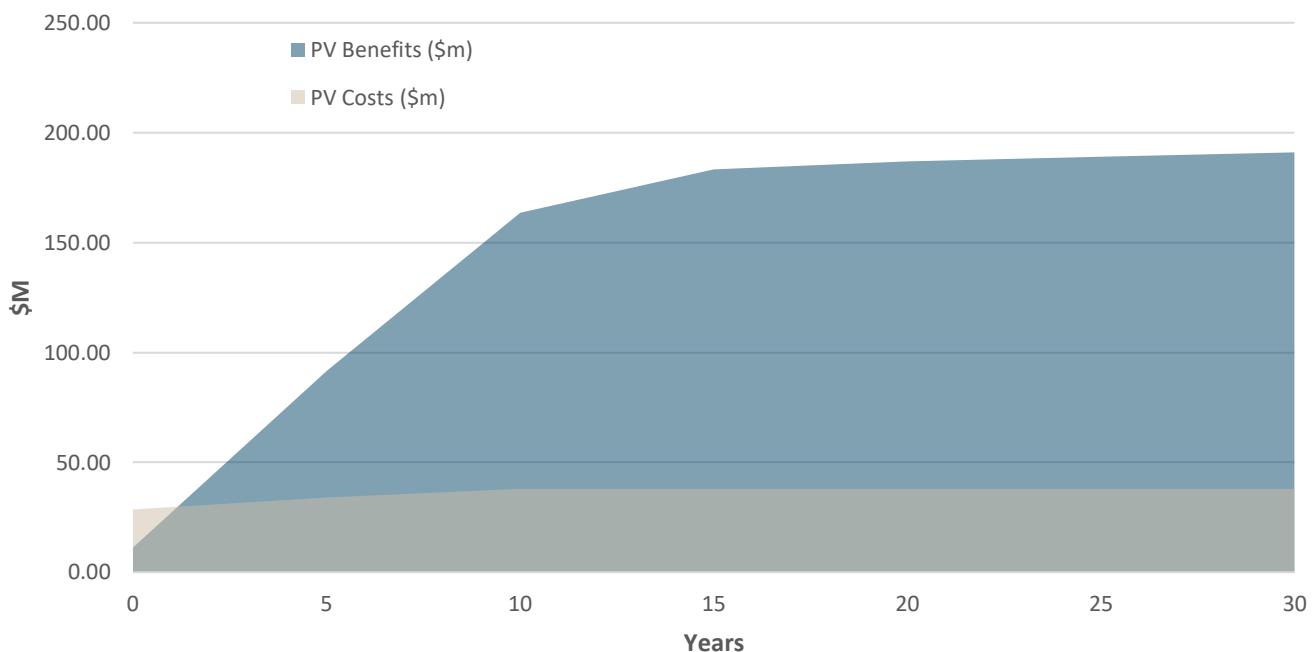


Figure 2 Accumulation of benefits and costs over time

Recommendations

The findings from the aggregate analysis of 60 economic impact assessments of projects funded by AMPC provides a robust evidence base to inform AMPC's future investment planning, support industry adoption, and enhance public confidence in the sector's innovation and sustainability efforts.

Based on insights provided from this analysis, it is recommended that AMPC:

- ◆ Continue to invest in projects that align with its strategic objectives and National Agricultural Innovation Priorities
- ◆ Look to strengthen opportunities for co-investment and partnerships with industry, government and technology providers
- ◆ Continue to invest in projects that deliver benefits across the triple bottom line
- ◆ Continue to ensure that processors, service providers and other key stakeholders are engaged early to ensure relevance and support adoption pathways
- ◆ Strengthen the impact assessment process by ensuring all projects define the pathway to impact and collect necessary supporting data, including on adoption and triple bottom line impacts, and consider undertaking more impact assessments at the program and/or cluster level
- ◆ Leverage data and information generated through the impact assessment process for strategic communications to both support industry adoption and enhance public trust and social licence.

2.0 Introduction

2.1 Background

Australian Meat Processor Corporation (AMPC) is the Rural Research and Development Corporation (Rural RDC) for the Australian red meat processing industry, supporting targeted investments in research, development and extension (RD&E). For each financial year from 2019/20 to 2024/25, GHD conducted ex-post economic impact assessments on a representative sample of AMPC's core RD&E investments.

Annual economic impact assessments were conducted to:

1. Provide an assessment, in line with the *Council of Rural Research and Development Corporations (CRDC) Impact Assessment Program: Guidelines* (2018), of a representative sample of AMPC investments completed between 1 July and 30 June of each financial year
2. Collect, on behalf of AMPC, relevant industry data to support an understanding of industry issues, and the delivery of future investments
3. Identify and analyse key drivers of investment success, including investment outputs, industry awareness, industry adoption, cost of adoption, adoption benefit and benefit attribution
4. Identify and analyse key lessons learned for future investments
5. Identify and outline key messages relevant for service providers, AMPC members and key stakeholder groups (including Meat & Livestock Australia (MLA), Australian Meat Industry Council (AMIC), Red Meat Advisory Council (RMAC), and the Australian Government).

This summary report provides an aggregated analysis of the 6 years of ex-post economic impact assessments conducted.

2.2 Project objectives

The objective of this aggregated analysis of independent ex-post economic impact assessments completed by GHD over the period 2019/20 to 2024/25 is to provide an outline of:

- ◆ Total expected benefits and costs of the assessed projects by year and in aggregate
- ◆ The range and occurrence of triple bottom line impacts identified
- ◆ Alignment of projects sampled by year and in aggregate with Australian Government priorities
- ◆ Insights into key factors influencing project success
- ◆ Recommendations for any areas of improvement.

3.0 Methodology

3.1 Economic impact evaluation

Annual economic impact assessments were completed on a representative sample of AMPC's project investments for the respective financial year. Projects were selected independently by GHD from a long-list of AMPC's core project investments completed in the financial year. After excluding projects not suitable for impact assessment (e.g. projects with investment below a certain level or non-R&D projects), GHD selected projects using a stratified random sampling approach to ensure representation across AMPC's key program streams.

As per the *CRRDC Impact Assessment Program: Guidelines* (2018) GHD considered and modelled the project case (with project scenario) against the counterfactual (without project scenario) to determine the likely change in net economic benefit and, therefore, return on investment.

GHD reviewed project reports and outputs, and consulted with key stakeholders, to determine reasonable assumptions for the following:

- ◆ Potential impact if/when project outputs and findings are utilised by industry
- ◆ Likely rates of adoption over the coming years (adoption profile)
- ◆ Attribution of benefits, i.e. the extent realised benefits are attributable to the project investment, as separate from previous related research, future implementation costs and other factors.

The base analysis used the best available estimates for each variable, notwithstanding a high level of uncertainty for many of the estimates. Impacts were modelled over a 30 year timeline and discounted to present day amounts (applying a 5% discount rate) to determine the:

- ◆ Net Present Value of Benefits (NPV): Net benefits minus net costs
- ◆ Benefit Cost Ratio (BCR): Net benefits divided by net costs
- ◆ Internal Rate of Return (IRR): Interest rate at which the NPV of all the impacts from a project (both costs and benefits) or investment equal zero
- ◆ Modified Internal Rate of Return (MIRR): Similar to the above IRR, but assuming more realistic returns from reinvested benefits and financing of initial outlays (5% applied for both, as per CRRDC Guidelines).

Sensitivity analysis was used to test results against changes to key assumptions and discount rates, for both individual projects and aggregate results. For each evaluation GHD also specified confidence ratings in terms of coverage of benefits and accuracy of assumptions.

3.2 Aggregate analysis

Over the period from 2019/20 to 2024/25, GHD assessed a total of 70 project investments clustered into 60 individual ex-post impact assessments. These assessments were reported via annual ex-post economic impact assessment reports for each financial year. Raw data from these reports was extracted and structured in Excel to enable aggregate analysis across all years and projects.

4.0 Results

4.1 Project investment

Over the period from 2019/20 to 2024/25, GHD assessed a total of 70 project investments clustered into 60 individual ex-post impact assessments. As shown in Table 3, the total selection of projects for evaluation over the six-year period had a combined AMPC investment (excluding overheads) of \$20.8 million, which represented approximately 34% of AMPC's total investment into core projects over the period.

Table 3 Aggregated project budgets per year (*Excluding overheads)

| Year | Project Selection* | AMPC Budget | % of Budget Covered |
|---------------|---------------------|---------------------|---------------------|
| 2019/20 | \$1,781,136 | \$7,130,831 | 25% |
| 2020/21 | \$1,697,068 | \$4,637,807 | 37% |
| 2021/22 | \$2,028,296 | \$11,931,156 | 17% |
| 2022/23 | \$3,435,740 | \$17,100,000 | 20% |
| 2023/24 | \$3,364,372 | \$6,510,000 | 52% |
| 2024/25 | \$8,521,318 | \$14,599,234 | 58% |
| Totals | \$20,827,931 | \$61,909,028 | 34% |

Co-investment, in the form of cash or in-kind contributions were received for 13 of the 60 project clusters. As can be seen in Table 4, co-investment contributions made up just under 20% of the total budgets for the projects assessed over the period.

Table 4 Sampled projects co-investment (*Excluding overheads)

| Year | AMPC investment* | Co-investment | % of Co-investment | Total Budget |
|---------------|---------------------|--------------------|--------------------|---------------------|
| 2019/20 | \$1,781,136 | \$182,635 | 9% | \$1,963,771 |
| 2020/21 | \$1,697,068 | \$0 | 0% | \$1,697,068 |
| 2021/22 | \$2,028,296 | \$0 | 0% | \$2,028,296 |
| 2022/23 | \$3,435,740 | \$970,000 | 22% | \$4,405,740 |
| 2023/24 | \$3,364,372 | \$3,357,450 | 50% | \$6,721,822 |
| 2024/25 | \$8,521,318 | \$382,745 | 4% | \$8,904,063 |
| Totals | \$20,827,931 | \$4,892,830 | 19% | \$25,720,761 |

For the purposes of conducting the benefit cost analyses, the AMPC project investment costs were multiplied by a factor of 1.1 to accommodate project management costs.

As shown in Figure 3, the sample of projects within the 2024/25 financial year had the largest project costs (including overheads) across all 6 years at \$9.37 million, largely impacted by the selection of the *Red Meat Processing National Campaign – More to Meat (Phases 1, 2 and 3)* project cluster.

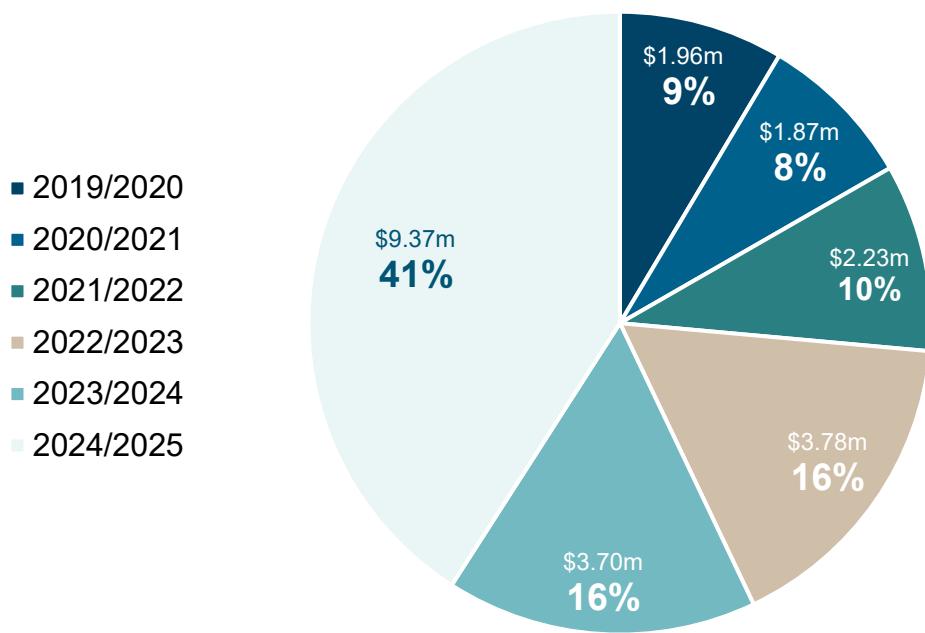


Figure 3 Aggregated project budget per financial year

4.2 Strategic alignment to AMPC program streams

The AMPC Strategic Plan 2020–2025 (Australian Meat Processor Corporation, 2020) outlined a comprehensive approach to RD&E and was structured around five key program streams designed to drive innovation and value for Australia's red meat processing industry:

- ◆ Advanced Manufacturing
- ◆ Sustainability
- ◆ People & Culture
- ◆ Technical Market Access & Markets
- ◆ Product & Process Integrity.

From year 2020/21, assessed projects have been aligned under AMPC's Strategic Plan 2020–2025 program streams. Figure 4 illustrates the number of individual projects aligned to Advanced Manufacturing (15), Sustainability (14), Product & Process Integrity (12), Technical Market Access & Markets (10) and People & Culture (9).

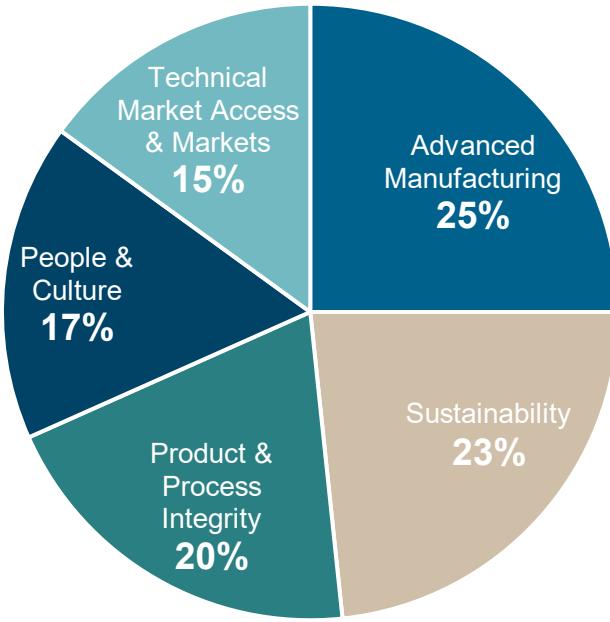


Figure 4 Assessed projects against AMPC program streams 2020-2025

While the project selection, i.e. number of projects, was relatively balanced across program streams, AMPC's financial investment (inclusive of overheads) across the projects evaluated was more heavily weighted toward Technical Market Access & Markets (33%) and Advanced Manufacturing (29%), shown below in Figure 5.

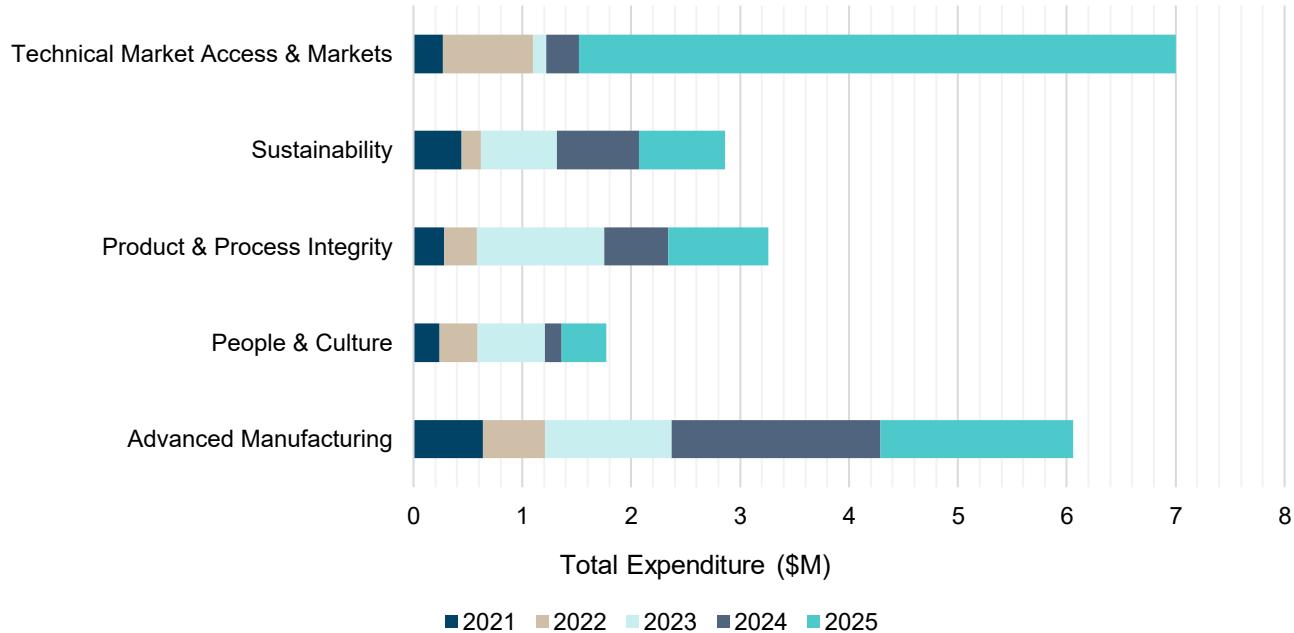


Figure 5 Project investment across all years aligned to AMPC 2020-2025 program streams

In 2019/2020 reporting, projects were aligned with AMPC's former Strategic Plan (2018-2022) (Australian Meat Processor Corporation, 2018), which arranged projects under six sub-programs: Processing Technologies (2), Environment and Sustainability (2), Processing Hygiene, Product Integrity and Meat Science (2), Capability, Extension and Education (2), Industry Improvement and Economic Analysis (1)

and Joint Industry Program (1). Corresponding expenditure against the six sub-programs in the 2018-2022 plan is shown in Figure 6.

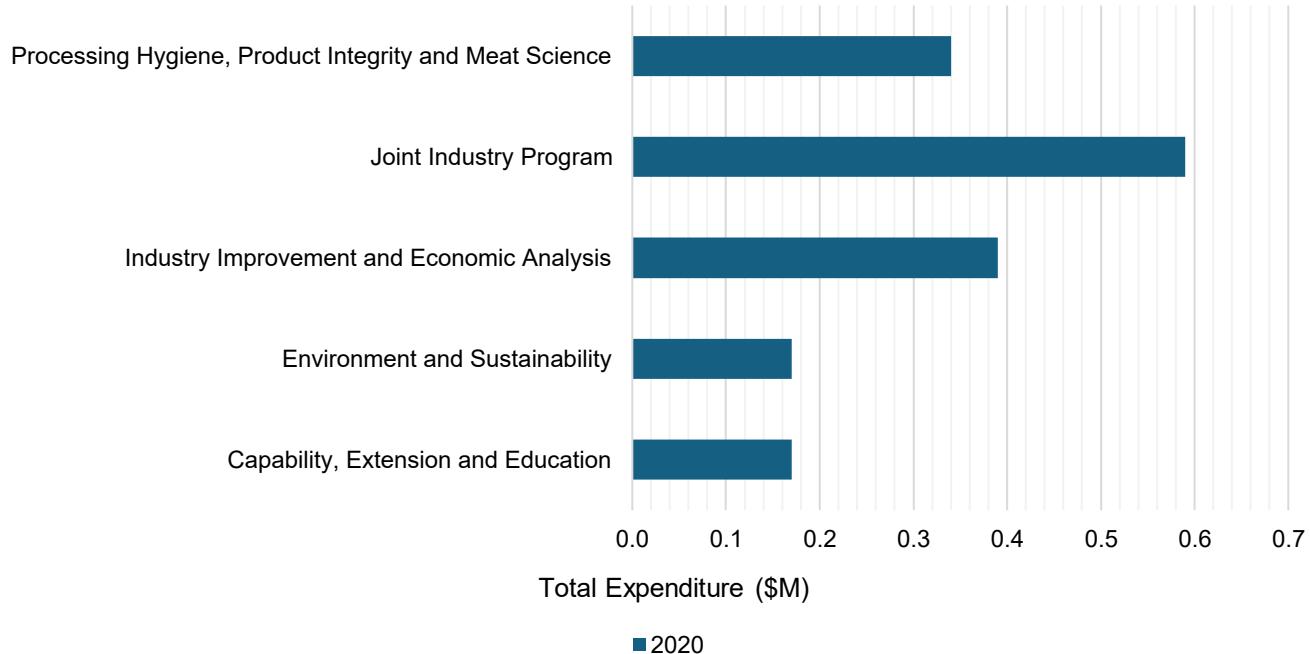


Figure 6 Project investment in FY 2019-2020 aligned to AMPC 2018-2022 program streams

4.3 Economic impact

Economic impact by year

In all years, the PV of benefits aggregated across the individual project/cluster impact assessments exceeded the PV of costs, resulting in positive NPVs and favourable weighted average BCRs.

The highest weighted average BCR across the projects assessed occurred in 2020/21 (8.7), while 2019/20 and 2022/23 both recorded a weighted average BCR of 5.1.

Table 5 Results from annual impact assessments (30 years, 5% discount rate)

| Year | PV Cost (\$m) | PV Benefits (\$m) | NPV | BCR |
|---------|---------------|-------------------|---------|-----|
| 2019/20 | \$2.23 | \$11.43 | \$9.19 | 5.1 |
| 2020/21 | \$1.90 | \$16.53 | \$14.63 | 8.7 |
| 2021/22 | \$2.26 | \$16.94 | \$14.69 | 7.5 |
| 2022/23 | \$5.01 | \$25.69 | \$20.67 | 5.1 |
| 2023/24 | \$7.37 | \$46.29 | \$38.85 | 6.3 |
| 2024/25 | \$12.35 | \$75.35 | \$63.01 | 6.1 |

Sensitivity analysis

Table 6 shows how the overall economic impact results would change based on changes in the discount rate. Results show that weighted average BCR results remain favourable under all rates tested. Sensitivity analyses were undertaken for individual projects assessments in all annual reports, adjusting discount rates along with other key input assumptions. These results are detailed in each individual report's appendices.

Table 6 Sensitivity analyses aggregated across all years and all projects

| Discount Rate | | 1% | 3% | 5% | 7% | 9% |
|------------------|-----------|-------|-------|-------|-------|-------|
| 2019-2020 | NPV (\$M) | 11.73 | 10.37 | 9.19 | 8.17 | 7.28 |
| | BCR | 6.25 | 5.64 | 5.11 | 4.66 | 4.26 |
| 2020-2021 | NPV (\$M) | 20.59 | 17.31 | 14.63 | 12.41 | 10.56 |
| | BCR | 11.85 | 10.12 | 8.71 | 7.54 | 6.56 |
| 2021-2022 | NPV (\$M) | 19.26 | 16.33 | 14.69 | 13.25 | 11.41 |
| | BCR | 9.5 | 8.2 | 7.5 | 6.9 | 6.1 |
| 2022-2023 | NPV (\$M) | 31.5 | 24.44 | 20.67 | 17.51 | 13.63 |
| | BCR | 7.3 | 5.9 | 5.1 | 4.5 | 3.7 |
| 2023-2024 | NPV (\$M) | 62.31 | 46.81 | 38.85 | 32.3 | 24.48 |
| | BCR | 9.5 | 7.4 | 6.3 | 5.4 | 4.4 |
| 2024-2025 | NPV (\$M) | 93.02 | 72.68 | 63.01 | 54.74 | 46.63 |
| | BCR | 8.5 | 6.9 | 6.1 | 5.5 | 4.8 |

Economic impact by program stream

Table 7 provides a breakdown of the PV Costs, PV Benefits, NPV and weighted average BCR across the impact assessments by program stream. This analysis has been completed based on the individual project/cluster impact assessments completed from 2020/21 to 2024/25, i.e. during the period of the AMPC Strategic Plan 2020–2025 (Australian Meat Processor Corporation, 2020).

The weighted average BCRs by program stream ranged from 5.1 for projects aligned with the Product & Process Integrity program to 7.3 for Advanced manufacturing.

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| Program Stream | PV Cost (\$m) | PV Benefits (\$m) | NPV | BCR |
|-----------------------------------|---------------|-------------------|---------|-----|
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| Sustainability | \$3.42 | \$20.85 | \$17.43 | 6.1 |
| Product & Process Integrity | \$4.68 | \$23.92 | \$19.24 | 5.1 |
| People & Culture | \$2.02 | \$10.64 | \$8.62 | 5.3 |
| Technical Market Access & Markets | \$9.56 | \$58.06 | \$48.50 | 6.1 |

Figure 7 provides a further breakdown of the weighted average BCR for each program stream by year.

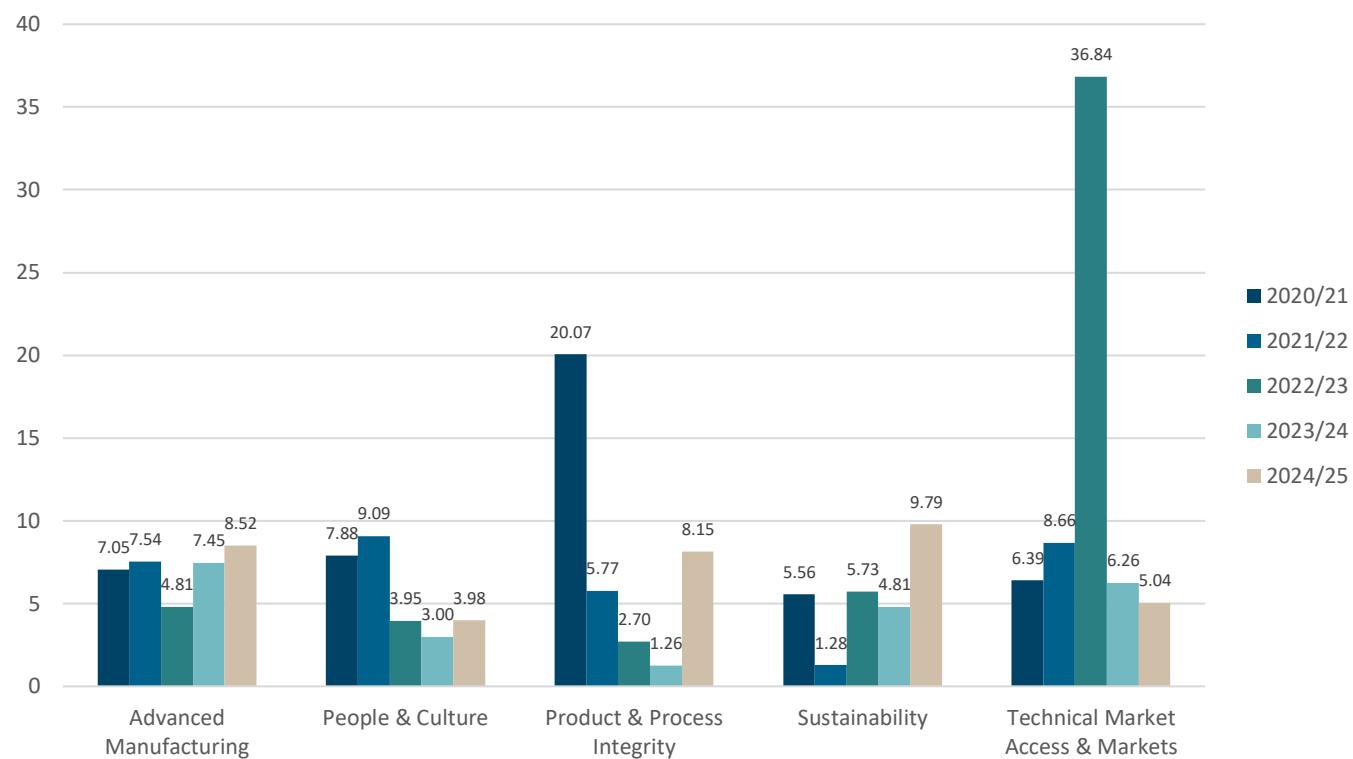


Figure 7 Weighted average BCRs by program streams based on impact assessments completed from 2020/21 to 2024/25

Economic impact by project

The results for all but one of the 60 individual project/cluster assessment across the six-year period delivered BCRs greater than 1.0, which means that in the main, project investments were sound, with benefits outweighing costs. Table 8 shows the range of BCRs within each year, and their variability, with 2022/23 being the most variable ranging from 0.6 to 35.9. Examples of the highest performing projects in each year are provided below. Figure 8 below provides a summary of the top ranked projects in each year. The full list of projects showing PV Costs, PV Benefits and BCR results is provided in **Appendix 1**.

Table 8 Lowest and highest BCRs within each year

| Year | Lowest BCR | Highest BCR | St. Dev. |
|---------|------------|-------------|----------|
| 2019/20 | 1.52 | 15.1 | 4.69 |
| 2020/21 | 2.8 | 22.5 | 5.86 |
| 2021/22 | 1.3 | 12.7 | 3.67 |
| 2022/23 | 0.6 | 35.9 | 10.36 |
| 2023/24 | 1.3 | 7.8 | 2.43 |
| 2024/25 | 1.2 | 19.7 | 6.34 |

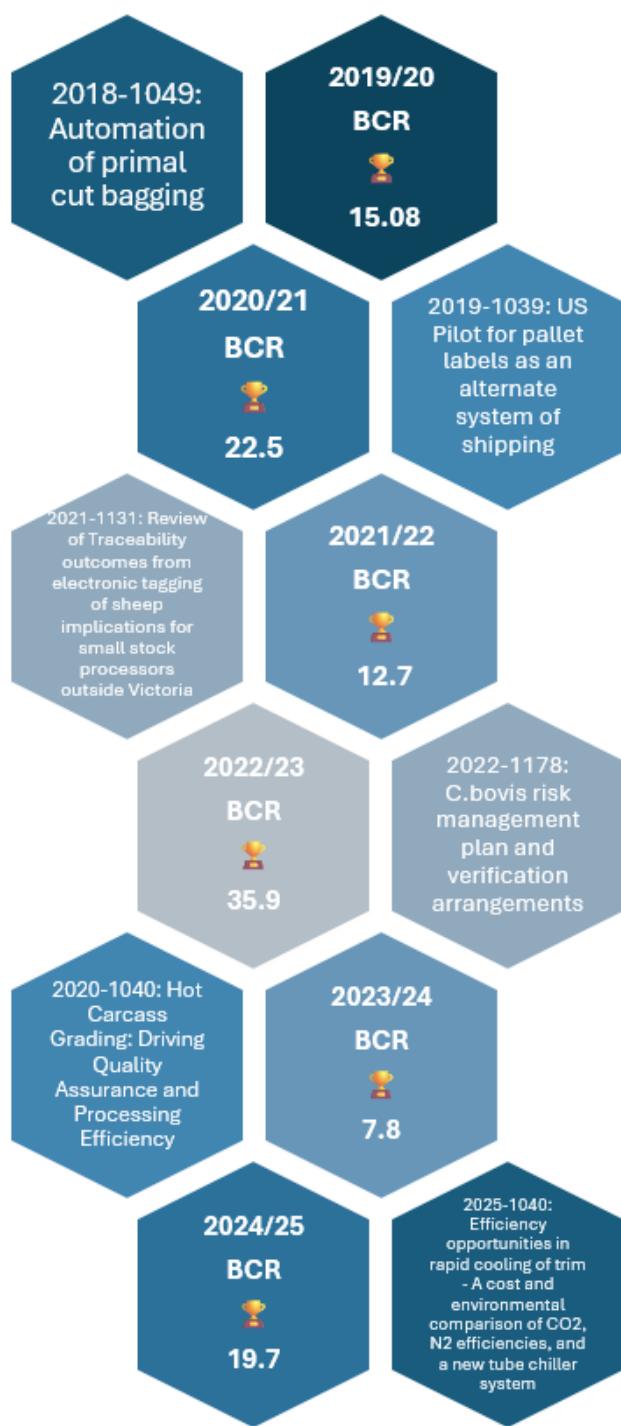


Figure 8 Highest performing projects by year

The highest BCR was **2022-1178: C. bovis risk management plan and verification arrangements** with a 35.9 BCR, meaning that net benefits exceed the net costs by nearly 36 times. The project, under Technical Market Access & Markets stream, proved that *C. bovis* in cattle can be effectively monitored at a lower cost, without adverse effects on public health, increasing value of beef cheeks and reducing food waste and inspection costs.

Project, **2018-1049: Automation of primal bag cutting**, part of the Processing Technologies stream, explored opportunities to fully automate the process of primal cut bagging, thereby reducing production costs and improving quality.

2019-1039: US pilot for pallet labels as an alternate system of shipping developed a pilot protocol that could minimise the amount of Australian red meat wasted during export into the US due to non-compliance in label or shipping mark. **2021-1131: Review of traceability outcomes from electronic tagging of sheep - implications for small stock processors outside Victoria**, aimed to assess the success of the Victorian model and determine its potential for adoption by other states. Both projects were under the Product Process and Integrity stream.

The project **2020-1040: Hot Carcass Grading: Driving Quality Assurance and Processing Efficiency**, part of the Advanced Manufacturing stream, developed real-time, accurate, and objective grading tools for beef and lamb carcasses.

In 2025, under the Sustainability streamline, project **2025-1040: Efficiency opportunities in rapid cooling of trim - A cost and environmental comparison of CO₂, N₂ efficiencies, and a new tube chiller system** conducted a comprehensive evaluation of rapid cooling technologies used in the meat processing industry, focusing on the cooling of meat trim.

Overall economic impact

Figure 9 presents the overall economic impacts estimated across all years (2019/20 to 2024/25).

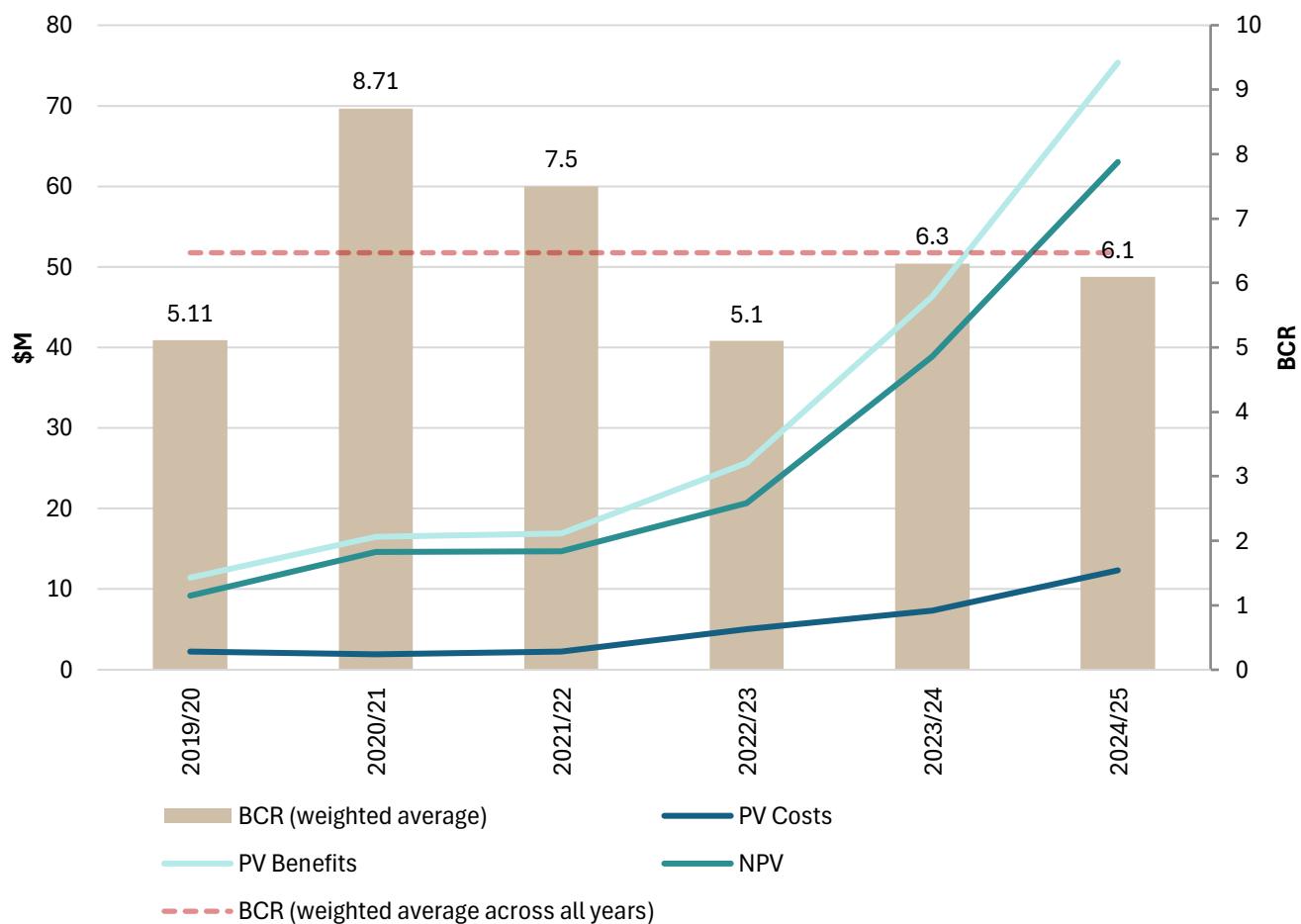


Figure 9 Economic impacts (BCR, PV Costs, PV Benefits, NPV) aggregated across all projects and years (PV Costs, PV Benefits and NPV are plotted against the left vertical axis and BCR is plotted against the right vertical axis)

Across all years, high-level findings in the modelling consistently demonstrated that most benefits from project investments will be realised within five to ten years of project completion. This is typical of rural RD&E as innovations often take up to five years to become fully developed and adopted. After 10 years, many innovations are likely to be superseded, or similar outcomes achieved, under the counterfactual scenario.

To demonstrate this point, the accumulation of benefits and costs from all 60 of the selected projects/clusters is presented in Figure 10. It is important to note that this presentation is for illustrative purposes only, as it presents the aggregate results from all impact assessments for year 0 to year 30 irrespective of whether year 0 was 2019/20 or 2024/25 for example.

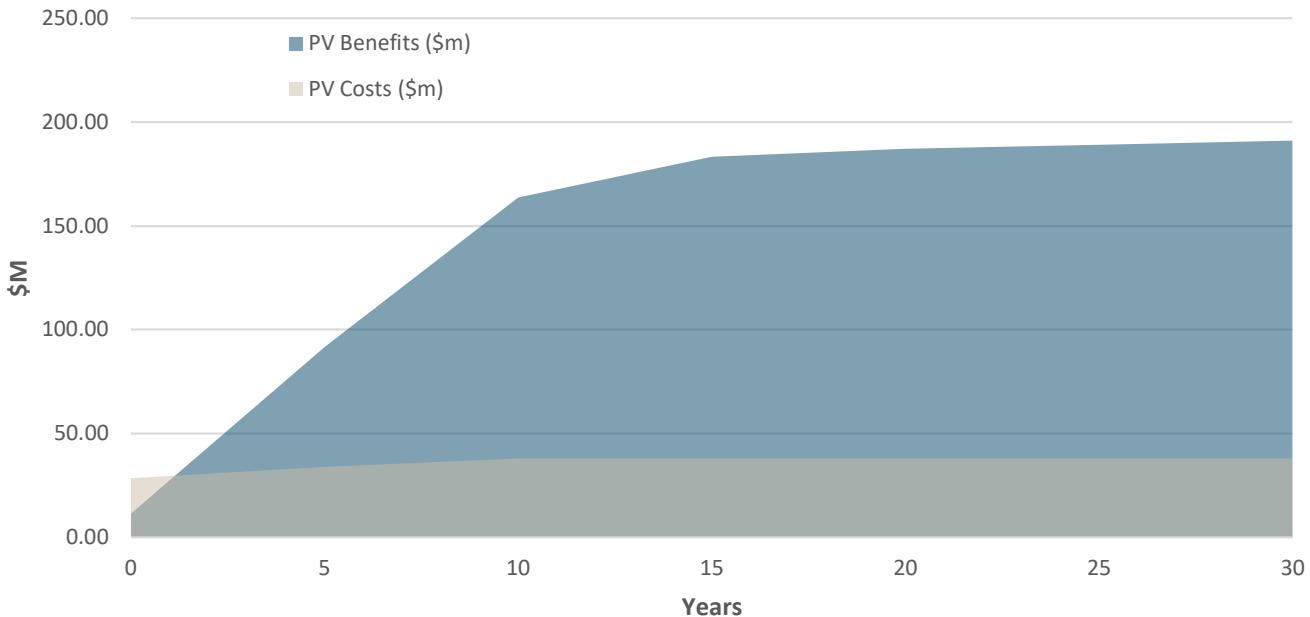


Figure 10 Accumulation of benefits and costs over time

4.4 Triple bottom line impacts

Individual impact assessments seek to identify, and where possible quantify, the full range of economic, social and environmental impacts arising from the project investments. The range of impacts identified across the 60 individual assessments over the period 2019/20 to 2024/25 can be depicted using a word cloud, as presented in [Error! Reference source not found.](#)



Figure 11 Triple bottom line impacts aggregated across all projects and years, demonstrating range and frequency of impacts identified (Larger text signals higher occurrence of that word)

Notably, there has been an increase in the range of triple bottom line impacts identified across the period, as broader outcomes are sought beyond only economic impacts. Across all years, all projects contributed towards improved triple bottom line outcomes, aligning with AMPC's strategic vision to deliver measurable benefits to not only processors but the broader community and environment.

Table 9 *Triple bottom line aggregate impacts*

| Impacts | Common Themes | Occurrence | Examples |
|---------------|--|------------------|---|
| Economic | Cost savings, productivity gains, reduced waste, improved yield, avoided regulatory costs, increased market access | 100% of projects | <ul style="list-style-type: none"> ◆ Reduced training costs (virtual reality (VR) modules) ◆ Premiums from improved grading (MEQ probe) ◆ Avoided landfill fees (plastics diversion) ◆ Reduced admin and export rejections (Meat Messaging) |
| Environmental | Energy efficiency, waste reduction, emissions avoidance, improved resource use | 60% of projects | <ul style="list-style-type: none"> ◆ Reduced energy use via better grading and cooling systems ◆ Diverted plastics from landfill ◆ Reduced food and packaging waste from export rejections |
| Social | Improved training, wellbeing, community perception, workforce diversity, social licence to operate | 75% of projects | <ul style="list-style-type: none"> ◆ VR training improving safety and accessibility ◆ Careers portal supporting youth and women in trades ◆ More to Meat campaign enhancing public trust and industry reputation ◆ AI systems improving animal welfare and transparency |

More information on how individual projects lead to triple bottom line outcomes is provided in the case study examples below.

Project case studies

Project 2025-1045: *LEAP4Beef – Striploin chinning pre-production cell accuracy improvements* provides an example of how projects can contribute to improved economic and social outcomes. By improving efficiency in chinning process through automation, this project reduced waste and labour costs while also enhancing worker safety.

Projects included in the Advanced Manufacturing streamline (2023-1050/1051: *Bovine and ovine Carcass Inspection/Contamination Management - On-site Validation & Process Integration* and 2020-1040: *Hot Carcass Grading: Driving Quality Assurance and Processing Efficiency*) conducted trials to integrate technology into the processing lines of ovine and bovine processing facilities, improving yield optimisation and labour efficiency. Despite each project costing around \$1 million, their net present value over 30 years exceeded \$34 million, demonstrating strong long-term benefits.

Around 60 percent of projects contributed towards improved environmental outcomes, excluding impacts already reflected in the triple bottom line assessment. Most of the impacts identified in the

projects were related to reducing greenhouse gas emissions and waste. Alternative solutions to enhance process efficiency have also been included in projects such as 2025-1040: *Efficiency opportunities in rapid cooling of trim - A cost and environmental comparison of CO₂, N₂ efficiencies, and a new tube chiller system*. Furthermore, projects as 2020-1054: *Solar PV with Storage & Biomass Boilers – LCOE calculator* and 2020-1006: *Aggregated Waste to Energy (W2E)* explored opportunities to incorporate renewable energy options to the industry, contributing to a carbon neutral target by 2030.

Socially, AMPC's People & Culture streamline focuses on workforce attraction, retention, development and wellbeing. Seventy-five per cent of evaluated projects reported social impacts. Regarding diversity, projects 2023-1061/1062: *Empowering Women in Maintenance Trades* improved confidence and awareness of job opportunities, developed job-ready skills and contributed to gender diversity in plants. Improving industry's social licence to operate is a social impact worth mentioning, reflected in project 2024-1093: *Animal Husbandry AI Objective Measurement Validation in Australian Abattoirs* aiming to demonstrate practice transparency in animal welfare and building community trust.

4.5 Strategic alignment to Australian Government priorities

Australia's RDC system recognises innovation as crucial for building a profitable and competitive agricultural sector. To support RD&E investment that is strategic, collaborative and targeted, the Australian Government sets national investment priorities, as outlined in Table 10. Priorities are established to ensure that RDCs appropriately target RD&E investment to benefit industry and the broader Australian community. By aligning with these priorities, RDCs empower industries to adopt innovative practices and, as a result, AMPC have an obligation to demonstrate how their investments in RD&E projects align with Australian Government priorities.

When this project began in 2020, AMPC-funded projects were assessed against the Australian Government's former **Rural RD&E Priorities**. In 2021, the Australian Government released a new set of **National Agricultural Innovation Priorities**, replacing the Rural RD&E Priorities (see Table 10).

Table 10 Australian Government Research Priorities (Rural RD&E Priorities were replaced by the National Agricultural Innovation Priorities in 2021)

| Rural RD&E Priorities | National Agricultural Innovation Priorities* |
|---|---|
| <i>Replaced in 2021</i> | 2021 |
| 1. Advanced technology | 1. Australia is a trusted exporter of premium food and agricultural products by 2030 |
| 2. Biosecurity | 2. Australia will champion climate resilience to increase the productivity, profitability and sustainability of the agricultural sector by 2030 |
| 3. Soil, water and managing natural resources | 3. Australia is a world leader in preventing and rapidly responding to significant incursions of pests and diseases through futureproofing our biosecurity system by 2030 |
| 4. Adoption of R&D | 4. Australia is a mature adopter, developer and exporter of digital agriculture by 2030 |

*For ease of analysis, these priorities have been abbreviated in this analysis as follows: (1) Trusted Exporter of Premium Food, (2) Climate Resilience, (3) Biosecurity System Futureproofing, and (4) Digital Agriculture Adoption.

Analysis of AMPC-funded RD&E projects from 2020/21 to 2024/25 demonstrates strong alignment with both the former Rural RD&E Priorities and the current National Agricultural Innovation Priorities. Across the assessed period, all projects addressed at least one government priority, indicating a consistent strategic focus on delivering public value through innovation.

Under the **Rural RD&E Priorities**, the most frequently addressed areas were:

- **Advanced Technology** (75% of projects),
- **Adoption of R&D** (81%), followed by
- **Soil, Water and Natural Resource Management** (38%), and
- **Biosecurity** (35%).

From 2022 onwards, projects were assessed against the updated **National Agricultural Innovation Priorities**. Particularly strong alignment was observed in:

- **Digital Agriculture Adoption** (63%),
- **Climate Resilience** (66%), and
- **Trusted Exporter of Premium Food** (69%).

Alignment with **Biosecurity System Futureproofing** was comparatively low (16%), suggesting a potential opportunity for targeted investment in this area.

The data indicates that AMPC's RD&E portfolio is well-positioned to support national objectives related to technological advancement, sustainability, and industry competitiveness. The high proportion of projects addressing multiple priorities reflects a deliberate effort to maximise cross-cutting benefits and ensure relevance to both industry and broader government goals.

A detailed analysis demonstrating how each project aligns to government priorities is provided at **Appendix 2**.

5 Discussion

This aggregated analysis of AMPC's RD&E investments from 2019/20 to 2024/25 demonstrates a consistently strong return on investment across all assessed projects and years. These results reflect the economic efficiency and strategic value of AMPC's RD&E portfolio, aligning with its vision of fostering a globally competitive and prosperous red meat processing industry.

The results compare favourably to an assessment of 111 RDC project cluster evaluations, between 2014 and 2019, which found a weighted average BCR of 5.5, with annual weighted average BCRs ranging from 3.3 to 9.1 (Agtrans Research 2019).

Over the six-year period, AMPC invested approximately \$20.8 million in core RD&E projects, with the most significant proportion allocated to the Technical Market Access & Markets program stream. Projects within this stream, alongside those in Advanced Manufacturing and Product & Process Integrity, consistently demonstrated high net present values and strong alignment with both AMPC's strategic objectives and Australian Government priorities.

The analysis also highlights the importance of considering broader impacts beyond economic returns. While economic impacts are consistently modelled and quantified, forming the basis of NPV and BCR calculations, environmental impacts have increased in prominence in later years, especially in sustainability-focused projects (e.g. Econoliser, solar PV, plastics diversion). Social impacts are more qualitative but increasingly recognised, especially in workforce, wellbeing, and reputation-focused initiatives. Projects with multi-dimensional triple bottom line impacts (e.g. Meat Messaging, Careers Portal, More to Meat) have delivered broader strategic value beyond financial returns.

Where projects recorded a Benefit-Cost Ratio (BCR) below the average, there were often unquantified social and environmental impacts, which could significantly increase the overall value.

Strategic alignment analysis revealed that AMPC's investments strongly supported national priorities related to technological advancement and adoption of RD&E outcomes. However, alignment with biosecurity and natural resource management was more variable, suggesting opportunities for targeted investment in these areas.

The aggregate analysis across the six-year period provides insights into common attributes of high-performing projects, which can be summarised as:

- ◆ Strong alignment with AMPC strategic priorities and government innovation goals
- ◆ Multi-dimensional triple bottom line impacts
- ◆ Scalable across multiple plants or regions
- ◆ Adoption is supported by industry data and stakeholder validation.

6 Conclusion

Over the six-year period from 2019/20 to 2024/25, the AMPC Impact Assessment Program has demonstrated that AMPC's core RD&E investments have delivered consistent and substantial value to the red meat processing sector. With weighted average BCRs ranging from 5.1 to 8.7, the results indicate that AMPC has outperformed RDC benchmarks and delivered strong returns on investment.

The impact assessments provide strong evidence of economic impact, strategic alignment, and broader societal value. Projects have increasingly addressed triple bottom line impacts, with notable growth in environmental and social dimensions alongside economic outcomes.

These findings provide a sound basis for future investment planning and continuous improvement in RD&E delivery.

7 Recommendations

Based on insights provided from this aggregate analysis of annual impact assessments completed over the past six years, it is recommended that AMPC:

- ◆ Continue to invest in projects that align with its strategic objectives and National Agricultural Innovation Priorities
- ◆ Look to strengthen opportunities for co-investment and partnerships with industry, government and technology providers
- ◆ Continue to invest in projects that deliver benefits across the triple bottom line
- ◆ Continue to ensure that processors, service providers and other key stakeholders are engaged early to ensure relevance and support adoption pathways
- ◆ Strengthen the impact assessment process by ensuring all projects define the pathway to impact and collect necessary data, including on adoption and triple bottom line impacts, and consider undertaking more impact assessments at the program and/or cluster level
- ◆ Leverage data and information generated through the impact assessment process for strategic communications to both support industry adoption and enhance public trust and social licence.

8 References

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9 Appendices

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Appendix 1: Project list

Table 11 Complete list of projects assessed (2019-2025)

| FY | Project Code | Project Name | PV Costs (\$m) | PV Benefits (\$m) | BCR |
|-----------|--------------|--|----------------|-------------------|-------|
| 2019/2020 | 2019-1066 | Visual monitoring of carcass and carton meats - a system for the 21st century | 0.24 | 3.07 | 13.02 |
| | 2018-1131 | Australian Export Meat Inspection Service (AEMIS) review | 0.39 | 1.69 | 4.32 |
| | 2019-1047 | Working towards an ideal RMI Visa Program | 0.19 | 1.44 | 7.66 |
| | 2018-1049 | Automation of primal cut bagging | 0.07 | 1 | 15.08 |
| | 2018-1083 | Non-invasive prediction of flavor, tenderness and juiciness for individual animals at point of slaughter – stages 1 & 2 | 0.4 | 1.28 | 3.22 |
| | 2019-1042 | Robotic removal of button bone and flat bone after striploin chine bone removal – stage 1 practical feasibility | 0.27 | 1.14 | 4.19 |
| | 2017-1037 | Assessment of smoldering as an efficient and low-cost alternative for management of agricultural solid wastes | 0.19 | 0.71 | 3.81 |
| | 2018-1047 | Blockchain for the meat industry: where and how? | 0.29 | 0.76 | 2.61 |
| | 2017-1001 | Meat industry efficiency and innovation capacity enhancement: benchmarking technologies and systems from automotive industry | 0.16 | 0.25 | 1.52 |
| | 2019-1059 | Emission reduction pathways and opportunities for the Australian red meat processing sector | 0.05 | 0.11 | 2.21 |
| 2020/2021 | 2019-1039 | US Pilot for pallet labels as an alternate system of shipping mark | 0.2 | 4.49 | 22.5 |
| | 2018-1045 | First prototype automation for deboning lamb Shoulder - Stage 2 | 0.45 | 4.07 | 9 |
| | 2020-1065 | Working towards an ideal RMI Visa Program - Stage 2 | 0.25 | 1.97 | 7.9 |
| | 2018-1030 | Technical and economic feasibility of water recycling and energy recovery for red meat processing operations in abattoirs | 0.26 | 1.64 | 6.4 |
| | 2020-1010 | Export Certification Framework Project | 0.21 | 1.43 | 6.9 |
| | 2021-1086 | Development of a COVID Marshall training package | 0.08 | 1.13 | 14.4 |
| | 2021-1146 | Remote Operations – Shadow Robots | 0.21 | 0.58 | 2.8 |
| | 2020-1054 | Solar PV with Storage & Biomass Boilers – LCOE calculator | 0.1 | 0.47 | 4.9 |
| | 2020-1006 | Aggregated Waste to Energy (W2E) | 0.09 | 0.39 | 4.6 |
| | 2020-1012 | Total volatile basic nitrogen in meat products: occurrence, method of determination and use as a freshness indicator | 0.07 | 0.36 | 5.4 |

| FY | Project Code | Project Name | PV Costs (\$m) | PV Benefits (\$m) | BCR |
|-----------|----------------|---|----------------|-------------------|------|
| 2021/2022 | 2021-1091 | Meat Hygiene Assessment 3 - An Industry Trial | 0.41 | 4.79 | 11.8 |
| | 2022-1048 | Developing a Voluntary Code of Conduct for Migrant Management (Stage 1) | 0.32 | 2.89 | 9 |
| | 2021-1222 | Artificial Intelligence (AI) - Non-X-ray Beef Cutting - Stage 2 (Intelligent Robotics) | 0.27 | 2.64 | 9.9 |
| | 2020-1066 | Utilisation of Augmented Reality for the development of Remote Auditing | 0.44 | 2.57 | 5.9 |
| | 2021-1172 | Traceability - Primal to Steak/Steak to Primal (Stage 2) | 0.28 | 1.46 | 5.2 |
| | 2021-1223 | Shadow Robot - Bandsaw Cutting of Beef Shank - Stage 1 | 0.24 | 0.99 | 4.1 |
| | 2019-1038 | eMTC implementation including DAWR requirements | 0.08 | 0.82 | 10.7 |
| | 2022-1093 | Business Plan for a Red Meat Industry Knowledge Hub | 0.03 | 0.29 | 8.7 |
| | 2021-1131 | Review of Traceability outcomes from electronic tagging of sheep implications for small stock processors outside Victoria | 0.02 | 0.27 | 12.7 |
| | 2019-1060 | Megasonic demulsification of oil and grease from meat processing wastewater | 0.18 | 0.23 | 1.3 |
| 2022/2023 | 2022-1178 | C.bovis risk management plan and verification arrangements | 0.19 | 7 | 35.9 |
| | 2019-1065 | Real-time identification of red meat provenance and quality attributes | 1.9 | 5.1 | 2.7 |
| | 2021-1161-1232 | Food Safety: End-of-line Ovine/Bovine Carcase Inspection/Contamination Management prototype | 0.5 | 3.68 | 7.4 |
| | 2022-1081 | Bio-solids upgrade. Stage 1 | 0.3 | 3.15 | 10.6 |
| | 2022-1049 | Ovine IMF measurement production prototype | 0.72 | 2.19 | 3 |
| | 2021-1201 | Wellbeing assessment of the Red Meat Industry Phase 1 | 0.21 | 1.33 | 6.3 |
| | 2021-1262-1258 | Immersive Reality - Equipment Maintenance Training - Wizardd Trimmer | 0.45 | 1.28 | 2.9 |
| | 2021-1182 | Pinch Analysis & Heat Integration Opportunities | 0.27 | 0.94 | 3.6 |
| | 2016-1326 | A cold plasma wash water technology for meat safety and shelf life-extension | 0.32 | 0.9 | 2.9 |
| | 2021-1046 | Zero waste to landfill | 0.16 | 0.09 | 0.6 |

| FY | Project Code | Project Name | PV Costs (\$m) | PV Benefits (\$m) | BCR |
|-----------|------------------------------------|--|----------------|-------------------|------|
| 2023/2024 | 2020-1040 | Hot Carcass Grading: Driving Quality Assurance and Processing Efficiency | 4.44 | 34.5 | 7.8 |
| | 2023-1005 | Transport Emissions, Efficiency and Sustainability Roadmap | 0.57 | 3.38 | 5.9 |
| | 2021-1047 | Low-cost Assessment and Arrangement of Solar PV Opportunities | 0.27 | 1.98 | 7.3 |
| | 2023-1038 | Beef Striploin Fat Removal - Stage 2B: Controlled Variable Thickness. Robotic Fat Trimming | 0.28 | 1.5 | 5.3 |
| | 2024-1087 | Kokumi Flavour Peptide Production from Beef Offal Co-Products | 0.16 | 1.25 | 8 |
| | 2018-1050 | In Plant Trial of Robotic Picking and Packing System | 0.25 | 1.03 | 4.1 |
| | 2023-1047 | Beyond Border Analysis of Regulatory and Related Costs | 0.15 | 0.69 | 4.6 |
| | 2023-1061-1062 | Empowering Women in Maintenance Trades | 0.15 | 0.45 | 3 |
| | 2022-1055 | Diverting Packaging from Landfill – Business Scenario Study | 0.41 | 0.65 | 1.6 |
| | 2022-1128-131, 2022-1139 | Smallstock Traceability Pilots (5 plants) and Smallstock Traceability Pilot Study Evaluation | 0.69 | 0.87 | 1.3 |
| 2024/2025 | 2022-1211, 2024-1032 and 2025-1062 | Red Meat Processing National Campaign – More to Meat (Phases 1, 2 and 3) | 7.65 | 34.58 | 4.5 |
| | 2023-1050/1051 | Bovine & Ovine Carcass Inspection/Contamination Management - On-site Validation & Process Integration | 0.99 | 11.09 | 11.2 |
| | 2021-1092 | The Data-Based Confirmation of Chilled Lamb (held up to 20 weeks) Quality and Safety, using novel smart packaging and spectroscopic technologies | 0.8 | 6.67 | 8.3 |
| | 2024-1010 | Use of Meat Messaging and Barcodes as Shipping marks to US | 0.28 | 5.39 | 19.1 |
| | 2025-1040 | Efficiency opportunities in rapid cooling of trim - A cost and environmental comparison of CO2, N2 efficiencies, and a new tube chiller system | 0.24 | 4.8 | 19.7 |
| | 2025-1045 | LEAP4Beef – Module L4B01 Project 2 – Striploin chining pre-production cell accuracy improvements | 0.26 | 3.6 | 13.7 |
| | 2024-1002 | The Econoliser – Industry Trial, Techno-Economic Tool, and National Approval for Ease of Adoption | 0.39 | 3.03 | 7.7 |
| | 2023-1012 | Preliminary Investigation into Heavy Metal Detection in Offal using Raman Spectroscopy | 0.57 | 3.13 | 5.5 |
| | 2023-1064 | Meat Processing Industry Immersive Careers Experience Tool (Stage 1 and 2) | 0.61 | 2.43 | 4 |
| | 2024-1093 | Animal Husbandry AI Objective Measurement Validation in Australian Abattoirs | 0.55 | 0.64 | 1.2 |

Appendix 2: Alignment to Australian Government Priorities

Table 12 Alignment of projects sampled by year (from 2020/21) and in aggregate with Australian Government priorities (Projects were not assessed against the National Agricultural Innovation Priorities in 2020-21 or 2021-22)

| Year | Project code | Rural RD&E Priorities ¹ | | | | National Agricultural Innovation Priorities ² | | | |
|---|--------------|------------------------------------|---------|---------|---------|--|---|---|---|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 2020-21 | 2021-1146 | Y | Y | | Y | | | | |
| | 2020-1006 | Y | | Y | Y | | | | |
| | 2020-1065 | | | | Y | | | | |
| | 2020-1010 | | | | | | | | |
| | 2021-1086 | | Y | | Y | | | | |
| | 2018-1045 | Y | | | | | | | |
| | 2018-1030 | Y | | Y | Y | | | | |
| | 2020-1054 | Y | | Y | Y | | | | |
| | 2020-1012 | Y | Y | | | | | | |
| | 2019-1039 | Y | Y | Y | Y | | | | |
| 2020-2021 Total count (and presented as a proportion) | | 7 (70%) | 4 (40%) | 4 (40%) | 7(70%) | | | | |
| 2021-22 | 2019-1038 | Y | Y | | | | | | |
| | 2021-1223 | Y | | | Y | | | | |
| | 2021-1222 | Y | | | Y | | | | |
| | 2019-1060 | Y | | Y | | | | | |
| | 2022-1048 | | | | Y | | | | |
| | 2022-1093 | | | | Y | | | | |
| | 2020-1066 | Y | Y | | Y | | | | |
| | 2021-1091 | | Y | | Y | | | | |
| | 2021-1131 | Y | Y | | Y | | | | |
| | 2021-1172 | Y | Y | | Y | | | | |
| 2021-2022 Totals | | 7 (70%) | 5 (50%) | 1 (10%) | 8 (80%) | | | | |
| 2022-23 | 2021-1232* | Y | Y | Y | Y | Y | Y | Y | Y |
| | 2021-1161* | Y | Y | Y | Y | Y | Y | Y | Y |
| | 2022-1049 | Y | Y | | Y | Y | Y | | Y |
| | 2021-1046 | Y | | Y | Y | Y | | | |

¹ (1) Advanced technology, (2) Biosecurity, (3) Soil, water and managing natural resources, and (4) Adoption of R&D.

² (1) Trusted Exporter of Premium Food, (2) Climate Resilience, (3) Biosecurity System Futureproofing, and (4) Digital Agriculture Adoption.

| Year | Project code | Rural RD&E Priorities ¹ | | | | National Agricultural Innovation Priorities ² | | | |
|-------------------------|---------------------------------|------------------------------------|----------------|----------------|----------------|--|----------------|----------------|----------------|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| | 2021-1182 | Y | | Y | Y | | Y | | Y |
| | 2022-1081 | Y | | Y | Y | | Y | | Y |
| | 2021-1262# | Y | Y | Y | | Y | | | Y |
| | 2021-1258# | Y | Y | Y | Y | Y | | | Y |
| | 2021-1201 | | | | Y | Y | | | Y |
| | 2022-1178 | Y | Y | | | Y | | Y | Y |
| | 2016-1326 | Y | Y | Y | Y | Y | Y | | |
| | 2019-1065 | Y | Y | | Y | | | Y | Y |
| 2022-2023 Totals | | 9 (75%) | 6 (50%) | 6 (50%) | 8 (67%) | 7 (58%) | 5 (42%) | 2 (17%) | 8 (67%) |
| 2023-24 | 2020-1040 | Y | | | Y | Y | Y | | Y |
| | 2021-1047 | Y | | Y | Y | | Y | | |
| | 2022-1055 | Y | | Y | Y | | Y | | |
| | 2023-1038 | Y | | | Y | Y | Y | | Y |
| | 2023-1047 | | Y | Y | | Y | Y | Y | |
| | 2018-1050 | Y | | | Y | Y | Y | | |
| | 2023-1061-1062 | | | | Y | | Y | | |
| | 2022-1128-1131, 2022-1139 | Y | Y | | Y | Y | | Y | |
| | 2023-1005 | Y | | Y | Y | | Y | | |
| | 2024-1087 | Y | | Y | Y | Y | Y | | |
| 2023-2024 Totals | | 8 (80%) | 2 (20%) | 5 (50%) | 9 (90%) | 6 (60%) | 9 (90%) | 2 (20%) | 2 (20%) |
| 2024-25 | 2022-1211, 2024-1032, 2025-1062 | | | Y | Y | Y | Y | | Y |
| | 2023-1064 | Y | | | Y | Y | | | Y |
| | 2024-1002 | Y | | Y | Y | | Y | | Y |
| | 2023-1012 | Y | | | Y | Y | | | Y |
| | 2021-1092 | Y | | Y | Y | Y | Y | | Y |
| | 2025-1040 | Y | | Y | Y | Y | Y | | Y |
| | 2025-1045 | Y | | | Y | Y | Y | | Y |
| | 2024-1093 | Y | | | Y | Y | | | Y |
| | 2023-1050, 2023-1051 | Y | | | Y | Y | Y | | Y |
| | 2024-1010 | | Y | | Y | Y | | Y | Y |

| 2024-2025 Totals | 8 (80%) | 1 (10%) | 4 (40%) | 10 (100%) | 9 (90%) | 7 (70%) | 1 (10%) | 10 (100%) |
|---|---------|---------|---------|-----------|---------|---------|---------|-----------|
| Aggregate Number of Projects | 39 | 18 | 20 | 42 | 22 | 21 | 5 | 20 |
| Aggregate Proportion of Projects ³ | 75% | 35% | 38% | 81% | 69% | 66% | 16% | 63% |

² (1) Advanced technology, (2) Biosecurity, (3) Soil, water and managing natural resources, and (4) Adoption of R&D.

³ (1) Trusted Exporter of Premium Food, (2) Climate Resilience, (3) Biosecurity System Futureproofing, and (4) Digital Agriculture Adoption.

³ No assessment against the National Agricultural Innovation Priorities in 2020-21 and 2021-22.

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| Revision | Author | Reviewer | | Approved for Issue | | |
|----------|---------------------|----------|-----------|--------------------|-----------|------------|
| | | Name | Signature | Name | Signature | Date |
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| 2.0 | N Arakaki, S Hannam | S Madden | On file | S Madden | On file | 20/11/2025 |
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