

Vegetable Annual Investment Plan 2021/22

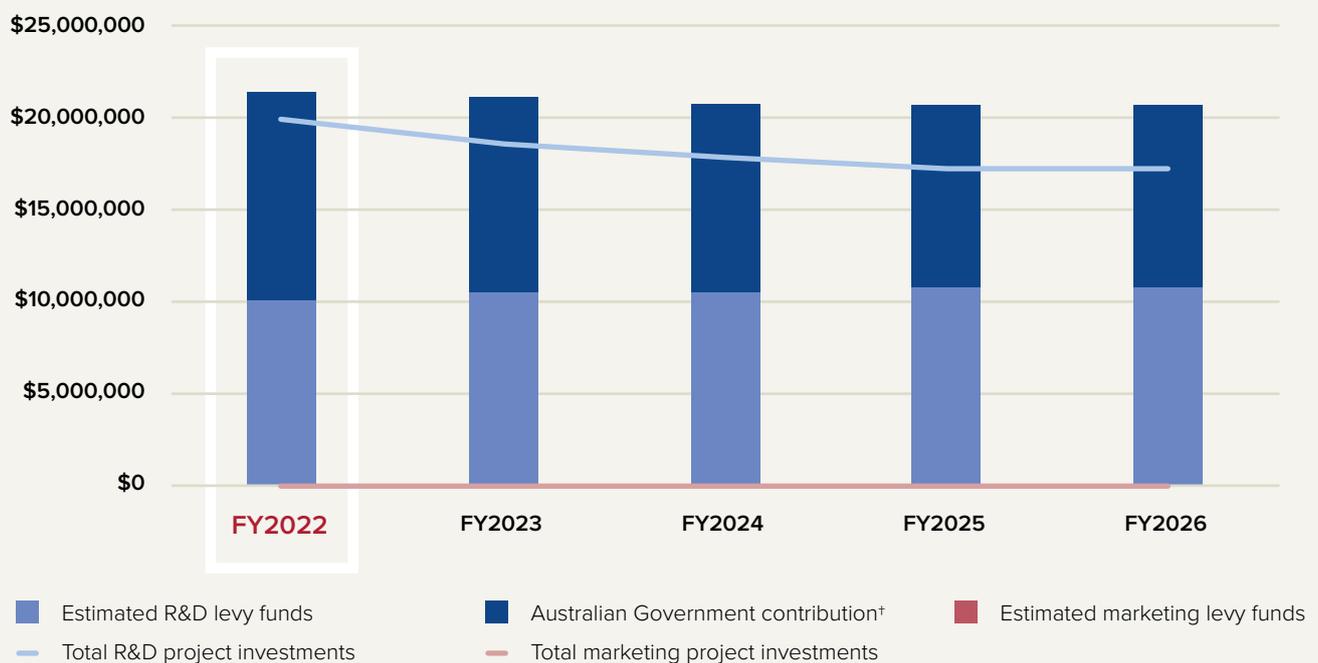


The 5-year Strategic Investment Plan

The vegetable Strategic Investment Plan (SIP) 2022-2026 provides a roadmap to guide Hort Innovation’s investment of vegetable industry levies and Australian Government contribution, ensuring investment decisions are aligned with industry priorities.

Figure 1 provides an indicative overview of the Vegetable Fund’s funding availability over the life of the SIP (FY2022-FY2026).

FIGURE 1. INDICATIVE FUNDING AVAILABILITY FOR THE VEGETABLE FUND’S FIVE-YEAR INVESTMENT PROGRAM



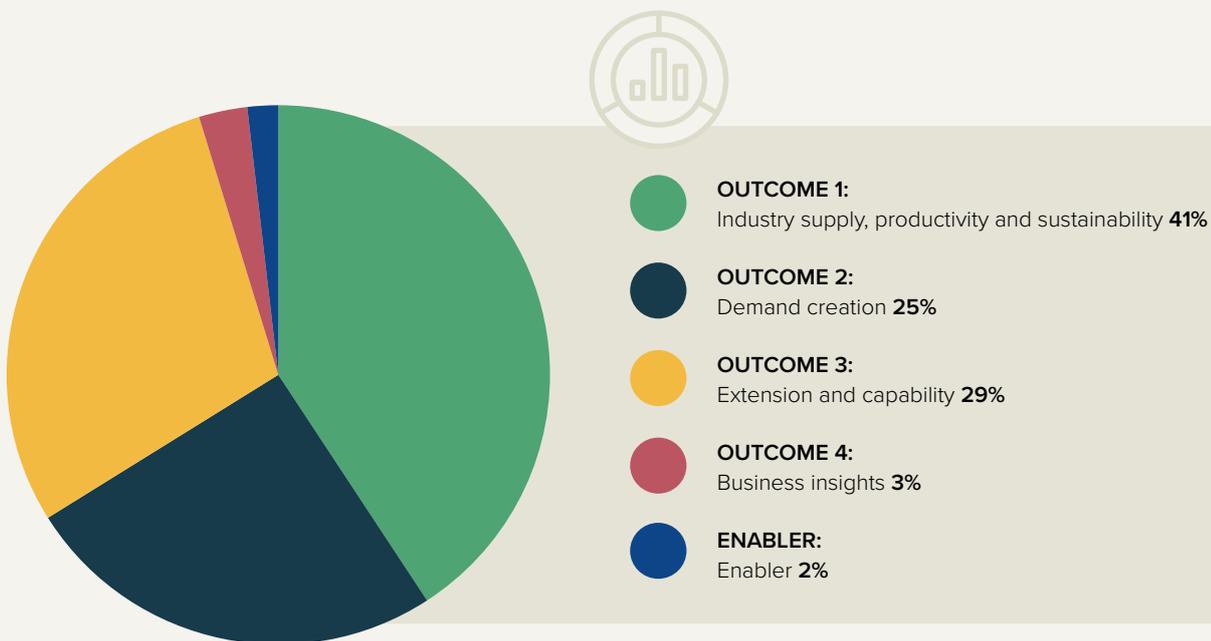
* Australian Government contribution is only applicable to the estimated levy funds for R&D.

About the vegetable Annual Investment Plan

Investment decisions in the Vegetable Fund are guided by the vegetable SIP 2022-2026 and prioritised based on potential industry impact, as well as availability of levy funds each year. Specific investments to address the SIP outcomes and strategies, and how they align with industry strategic priorities are outlined in detail through the vegetable AIP each year.

Figure 2 summarises how the AIP will invest in the SIP outcome areas for FY2022.

FIGURE 2. VEGETABLE STRATEGIC INVESTMENT PLAN EXPENDITURE ANALYSIS FY2022



\$13,894,320

THE **TOTAL AMOUNT COMMITTED FROM EXISTING INVESTMENT** IN THE VEGETABLE FUND FOR 2021/22

Vegetable Annual Investment Plan in detail

The financial table on the following pages provides detail on current investments and how new investments will be made in the Vegetable Fund in FY2022. Outcomes in the vegetable SIP 2022-2026 are defined below for your reference when reading the financial table.

Outcome 1 – Industry supply, productivity and sustainability

The Australian vegetable industry has increased profitability, efficiency and sustainability through innovative research and development, sustainable best management practices and cultivars.

Outcome 2 – Demand creation

Demand creation supports the Australian vegetable industry to develop existing and future domestic and international markets.

Outcome 3 – Extension and capability

Improved capability and an innovative culture that maximises investments in productivity and demand and builds a resilient Australian vegetable industry.

Outcome 4 – Business insights

The Australian vegetable industry is more profitable through informed decision-making using consumer knowledge and tracking, trade data, production statistics and forecasting, and independent reviews.

Enabler

Investments that support the delivery of the Strategic Investment Plan.

TABLE 1. INDICATIVE ESTIMATES FOR THE VEGETABLE ANNUAL INVESTMENT PLAN 2021/22 AS AT **1 JULY 2021**

RESEARCH AND DEVELOPMENT

	\$
OPENING FUND BALANCE	2,974,317
Levy income	10,000,000
Levy collection costs	(250,000)
Australian Government contribution	11,411,053
Other income	–
TOTAL INCOME	21,161,053

Contracted R&D projects

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	MT16016	Monitoring psyllids in Australian potato and vegetable crops	–	–	–	13,112	13,112
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	VG16063 – AUSVEG	The EnviroVeg Program – AusVeg	–	–	–	130,850	130,850
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	VG16063 – Freshcare	The EnviroVeg Program – Freshcare	–	–	–	45,750	45,750
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	VG16063 – Growcom	The EnviroVeg Program – Growcom	–	–	–	79,966	79,966
Industry supply, production and sustainability	Identify opportunities to adapt and improve current protected cropping and intensive production technologies for a range of growing conditions	VG16070	Research and Operations to Trial Innovation Glass and Photov	–	–	–	30,000	30,000

Continued >>

Contracted R&D projects (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Industry supply, production and sustainability	Identify advances in automation and emerging technology opportunities to support labour use efficiency, compliance and input management pre-harvest and postharvest	VG19005	Lifting Supply Chain Efficiency in the vegetable export industry	–	–	–	100,000	100,000
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	VG19007	Support Services for VG16086	–	–	–	19,917	19,917
Industry supply, production and sustainability	Prioritise the major crop protection gaps through a SARP*	VG20002	Support Services for SARP (VG18004)	–	–	–	44,400	44,400
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	FF18003	SITplus production facility – proof of concept	–	36,429	–	35,714	72,143
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	MT18008	National Tomato Potato Psyllid and Zebra Chip Surveillance	–	40,118	–	20,059	60,176
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	MT19003	Parasitoids for the management of fruit flies in Australia	7,500	–	–	12,500	20,000
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	MT19014	Field-based testing for fall armyworm, Spodoptera frugiperda	–	12,900	–	–	12,900
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	MT19015	Identifying potential parasitoids of the Fall Army Worm	–	47,600	9,400	–	57,000
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	MT20005	Management strategy for serpentine leafminer, Liriomyza huidobrensis	–	–	–	75,000	75,000
Industry supply, production and sustainability	Provide regulatory support and co-ordination for crop protection regulatory activities with the potential to impact plant protection product access, both in Australia and internationally*	MT20007	Regulatory Support & Response Co-ordination	–	28,535	–	–	28,535

Continued >>

Contracted R&D projects (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Industry supply, production and sustainability	Generate residue, efficacy and crop safety data to support applications to the APVMA to gain, maintain or broaden access to priority uses for label registrations and/or minor use permits for crop protection needs*	ST17000	Data Generation Program for Minor Use	–	110,681	–	–	110,681
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	VG16037	Novel Topical Vegetable and Cotton Virus Protection	365,660	–	–	–	365,660
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	VG16063	The EnviroVeg Program 2017-2022	51,313	–	205,252	–	256,566
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	VG16078	Soil Wealth and Integrated Crop Protection – Phase 2	–	275,494	–	275,494	550,987
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	VG16086	Area wide management of vegetable diseases: viruses and bacteria	–	300,000	163,426	2,124,613	2,588,039
Industry supply, production and sustainability	Identify opportunities to adapt and improve current protected cropping and intensive production technologies for a range of growing conditions	VG17003	National Vegetable Protected Cropping Centre	–	400,000	–	400,000	800,000
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	VG17012	Internal Fruit Rot of Capsicum	–	68,820	–	68,820	137,640
Industry supply, production and sustainability	Prioritise the major crop protection gaps through a SARP*	VG18004	Vegetable Strategic Agrichemical Review Process (SARP) Report Updates	24,200	–	–	–	24,200
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	VG20003	Co-developing and extending integrated Spodoptera frugiperda (fall armyworm) management systems for the Australian vegetable industry	–	–	42,586	–	42,586

Continued >>

Contracted R&D projects (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Demand creation	Pursue technical market access and market improvements for existing and new industry priorities, as well as addressing as required, the specific trade barriers that inhibit export growth	MT19006	Export MRL Compliance	–	–	–	25,000	25,000
Demand creation	Pursue technical market access and market improvements for existing and new industry priorities, as well as addressing as required, the specific trade barriers that inhibit export growth	MT20000	Improving on shore cold treatment protocols	–	–	–	10,000	10,000
Demand creation	Deliver a suite of export capability and market development activities that cater for the different needs of mature, emerging and aspiring exporters	MT20006	MRL App development	–	–	–	15,000	15,000
Demand creation	Deliver a suite of export capability and market development activities that cater for the different needs of mature, emerging and aspiring exporters	VG19004	Vegetable Export Program (VG19004)	–	–	–	2,500,000	2,500,000
Demand creation	Pursue technical market access and market improvements for existing and new industry priorities, as well as addressing as required, the specific trade barriers that inhibit export growth	MT14052	Essential Market Access Data Packages	–	58,014	–	81,927	139,941
Demand creation	Support vegetable product differentiation and initiate stakeholder education initiatives (e.g., health benefits)	VG16064	Tools and Interventions for Increasing Children's Vegetable Knowledge	243,200	–	422,400	–	665,600
Demand creation	Pursue technical market access and market improvements for existing and new industry priorities, as well as addressing as required, the specific trade barriers that inhibit export growth	VG17015	Alternative disinfestation for market access for crops affected by tomato potato psyllid	–	163,342	–	–	163,342
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG18000	National Vegetable Industry Communications Program	296,067	–	296,067	–	592,134

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Contracted R&D projects (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19008	VegNET – Bowen Gumlu & Far North Queensland	36,207	–	–	–	36,207
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19009	VegNET – Wide Bay Burnett	36,207	–	–	–	36,207
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19010	VegNET – Southern Queensland	36,207	–	–	–	36,207
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19011	VegNET – NSW	120,680	–	–	–	120,680
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19012	VegNET – Victoria (South-East, West and Northern Regions)	36,207	–	–	–	36,207

Continued >>

Contracted R&D projects (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19013	VegNET – Gippsland	36,207	–	–	–	36,207
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19014	VegNET – Tasmania	36,207	–	–	–	36,207
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19015	VegNET – SA	63,832	–	–	–	63,832
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19016	VegNET – WA	36,207	–	–	–	36,207
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19017	VegNET – NT	36,207	–	–	–	36,207

Continued >>

Contracted R&D projects (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Extension and capability	Provide opportunities for the required levels of engagement across vegetable industries to innovate through trusted relationships	VG20000	Annual Vegetable Industry Seminar	28,720	–	–	–	28,720
Extension and capability	Grow industry capacity and leadership through initiatives and training for the current workforce, increasing horticulture as a career choice and bringing new people into the industry	LP15001	Global Master Class	–	–	–	50,000	50,000
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG19018	Training – Development & delivery of VegNet	–	–	–	2,500	2,500
Extension and capability	Grow industry capacity and leadership through initiatives and training for the current workforce, increasing horticulture as a career choice and bringing new people into the industry	VG20001	Developing Vegetable Industry Leaders	–	–	–	100,000	100,000
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	VG21000	Vegetable Extension Program	–	–	–	2,700,000	2,700,000
Extension and capability	Grow industry capacity and leadership through initiatives and training for the current workforce, increasing horticulture as a career choice and bringing new people into the industry	LP15006	Attracting New Entrants into Australian Horticulture	42,000	–	–	–	42,000
Extension and capability	Grow industry capacity and leadership through initiatives and training for the current workforce, increasing horticulture as a career choice and bringing new people into the industry	LP16000	Advancing women's leadership across the Australian Horticultural Sector – Pool 2	–	12,000	–	–	12,000

Continued >>

Contracted R&D projects (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Extension and capability	Grow industry capacity and leadership through initiatives and training for the current workforce, increasing horticulture as a career choice and bringing new people into the industry	VG14065	Nuffield Scholarship	–	41,600	11,400	–	53,000
Business insights	Increase industry alignment with quality, consumer awareness and education driven by consumer insights*	MT17017	Vegetable Cluster Consumer Insights Program (VG16069)	47,612	190,982	–	–	238,594
Business insights	Increase industry alignment with quality, consumer awareness and education driven by consumer insights*	TBC	Consumer Demand Spaces	–	–	–	156,006	156,006
Business insights	Use trade data to guide ongoing export development opportunities*	MT19005	Horticulture Trade Data	–	3,013	–	3,013	6,026
Enabler	Enabler	MT20003	Development of Industry SIP	–	–	–	146,036	146,036
Enabler	Enabler	VG21999	Pre-procurement expenses	–	–	–	–	–
Enabler	Enabler	VG21800	Intellectual Property (Incl Legal)	–	–	–	–	–
Enabler	Enabler	VG21910	Industry Advice & Grower Consultation	–	–	–	–	50,000
Enabler	Enabler	MT18011	Ex-post impact assessment	32,304	25,843	–	–	58,147
Contracted investment				1,612,743	1,815,369	1,150,531	9,265,676	13,894,320

Uncontracted new R&D investments

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	TBC	A systems approach to seed-borne pathogen & disease management, from seed to production	–	–	–	–	20,000
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	TBC	Additional support for farm biosecurity in the vegetable and potato industries	–	–	–	–	35,000
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	TBC	National Fruit Fly Council – Phase 4	–	–	–	–	10,000
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	TBC	Project variation for MT20005 (Management strategy for serpentine leafminer, <i>Liriomyza huidobrensis</i>)	–	–	–	–	300,000
Industry supply, production and sustainability	Identify and support opportunities to improve productivity and sustainability through effective IPDM, weed control, soil health and cover crops	TBC	Management of Foliar bacterial diseases in Australian Vegetables	–	–	–	–	250,000
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	TBC	National Bee Pest Surveillance Program: Transition Program	–	–	–	–	90,000
Industry supply, production and sustainability	Improve industry preparedness and resilience to biosecurity threats	TBC	iMapsPESTS	–	–	–	–	500,000
Industry supply, production and sustainability	Provide regulatory support and co-ordination for crop protection regulatory activities with the potential to impact plant protection product access, both in Australia and internationally*	TBC	Minor Use permits, data generation and efficacy work etc	–	–	–	–	750,000
Extension and capability	Provide opportunities for the required levels of engagement across vegetable industries to innovate through trusted relationships	TBC	Annual Vegetable Industry Seminars 2022-2024	–	–	–	–	150,000

Continued >>

Uncontracted new R&D investments (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	TBC	Vegetable pest and disease 'ute guide'	–	–	–	–	150,000
Extension and capability	Grow industry capacity and leadership through initiatives and training for the current workforce, increasing horticulture as a career choice and bringing new people into the industry	TBC	People Development Strategy	–	–	–	–	50,000
Extension and capability	Grow industry capacity and leadership through initiatives and training for the current workforce, increasing horticulture as a career choice and bringing new people into the industry	TBC	Masterclass in Horticultural Business Scholarship	–	–	–	–	250,000
Extension and capability	Use extension and communication processes to support industry to achieve supply and demand priorities supporting profitable businesses especially in the areas of new technologies to enhance sustainable production practices, food safety, waste management, biosecurity and use of data to assist with decision-making	TBC	VG20003 Extension	–	–	–	–	200,000
Business insights	Increase industry alignment with quality, consumer awareness and education driven by consumer insights*	TBC	Foodservice foundational market insights	–	–	–	–	100,000
Business insights	Increase industry alignment with quality, consumer awareness and education driven by consumer insights*	TBC	Consumer behavioural retail data (Foundational)	–	–	–	–	100,000
Business insights	Increase industry alignment with quality, consumer awareness and education driven by consumer insights*	TBC	Consumer demand spaces for horticulture (domestic)	–	–	–	–	100,000

Continued >>

Uncontracted new R&D investments (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Business insights	Increase industry alignment with quality, consumer awareness and education driven by consumer insights*	TBC	Consumer usage & attitude research program	–	–	–	–	100,000
Business insights	Use market-leading global benchmarking to review Australian production competitiveness and engage growers in regional benchmarking initiatives	TBC	Benchmarking	–	–	–	–	100,000
Enabler	Enabler	TBC	Mid-Term Evaluations	–	–	–	–	200,000
Uncontracted new investment				–	–	–	–	3,455,000
Available for new investment								2,563,944
CCR								2,922,106
Projected end balance								1,300,000

Disclaimer: All figures are indicative only and may change depending on milestone achievements and actual income and expenditure.

* Foundational investments provide data and information that underpin the delivery of other SIP outcome areas and will be aligned to this strategy. Foundational investment areas include:

- Consumer behavioural data
- Consumer usage and attitudes, and brand health tracking data
- Impact assessments
- Trade data
- Crop protectant data.

Financial table definitions:

Opening fund balance: Forecast opening fund balance

Net levy income: Net levy income/revenue that is generated and collected by levy revenue services (LRS)

Australian Government contribution: Amount of contribution from the Australian Government on R&D levy-funded expenditure

Contracted investment: Estimated value of contracted projects

Uncontracted investment: Represents the estimated dollar value that is available for potential new investments for industry subject to industry advice

CCR: Cost to implement and manage R&D and marketing investment programs for each industry

Projected end balance: Forecast of the anticipated final position of each fund

Enabler: Investments that support the delivery of the SIP

Available for new investment: Uncontracted projects and the figure indicated in the SIP as available for new investment

Find out more information on the Vegetable Fund
at www.horticulture.com.au/vegetable/