



Vision

To create transformational science and technology platforms to support a sustainable alternate protein food ecosystem to capitalise on growing Australian and export markets.

Mission

To bring together, coordinate and harness the ecosystem of research, industry, community, and government to identify, prioritise and support market-led opportunities for industry in new protein foods and ingredients. To be achieved through:

- Transformative research programs seeking to enhance the value and functionality of protein-based ingredients and foods.
- Implementing sustainability programs that ensure carbon footprints are minimized with circular-based economies driving productivity and resource utilisation.
- Educating industry and the community on alternate protein foods with focussed education, training skills development to expand and diversify this rapidly evolving industry.

Executive Summary

By 2050 the world's population will reach approximately 9.7 billion [1]. To feed this growing population it is estimated that global food production will need to increase by approximately 70% from its current levels (FAO[3]). Annual cereal production will need to rise to 3 billion tonnes (a growth of 43%) and meat production to reach 470 million tonnes (a growth of 74%) (FAO3).

Protein is a key component of human diets. By 2050, the annual tonnes of protein required will be ~286 million tonnes, a rise of 43% from today's levels [4]. This demand will be met by a diversified protein market, currently trending towards an increased consumer choice for alternate proteins that meet daily dietary needs.

FIAL's report 'Capturing the Prize: Our \$5 billion plant-based and alternative proteins opportunity', estimated that Australia's alternative protein sector could capture \$5 billion in value-added opportunities by 2030 and create 6,000 new jobs in the sector.

Our goal is to ensure that Australia is well positioned to participate in the rapidly expanding global market for alternate protein foods.

Value Proposition

- Accelerate the development of new technologies and paths to market for alternate protein-based foods.
- Connecting a multidisciplinary research capability to support industry to address the scientific challenges.
- To establish a skills and competency base in a strong and resilient domestic and "smart" manufacturing industry.
- To leverage Australia's favoured position in international markets with highly differentiated premium value-added foods and ingredients.

[1] [United Nations, Department of Economic and Social Affairs, Population Division \(2019\). World Population Prospects 2019: Highlights. ST/ESA/SER/A/423.](#)

[2] High Level Expert Forum - How to Feed the World in 2050, Office of the Director, Agricultural Development Economics Division Economic and Social Development Department (2009)

[4] Henchion 2017. Future Protein Supply and Demand: Strategies and Factors Influencing a Sustainable Equilibrium. Foods 2017, 6, 53; doi:10.3390/foods6070053.

Innovation Framework

- Respond to global market driven demand for alternate proteins by developing a resilient alternate protein industry that targets domestic and international food markets.
- Develop an Australian alternate protein industry using a diversity of alternate protein inputs.
- Build production, processing, and manufacturing protein food industries across Australia.
- Create a platform for smart manufacturing, value added innovation, business growth, industry training and job creation for the Australian agri-food business sector and economy.
- Establish new domestic and international commercial food channels for industries delivering alternate protein production, processing and protein food and ingredient manufacturing.
- Ensure alternate protein foods meet defined qualities, regulatory frameworks, sustainability metrics, net zero carbon footprints and traceability characteristics across the food supply chain.

Structure and Governance of the CRC

Participation The **ALT PROTEIN CRC** welcomes both industry and research organisations who are interested and engaged in the Australian alternate protein food sector. Our research scope is diversified, encompassing a broad supply chain that will deliver greater protein outcomes for both Australian and international consumers. We seek active and constructive partners that seek a coordinated research and development effort to firmly establish a sustainable and profitable alternate protein food industry.

Governance The **ALT PROTEIN CRC** will act as a limited by guarantee company (**ALT PROTEIN CRC Ltd.**) to manage all commonwealth agreements, establish governance policies and board charters, receive foundation and annual cash and in-kind investments and establish management structures including the selection and appointment of independent skill-based board positions, executive officers and advisory boards. The **ALT PROTEIN CRC Ltd.** will oversee all research and commercialisation investments. Research themes will be led and coordinated by a Research Advisory Committee, appointed from both industry and research partners. All discipline leaders will be chosen based on predefined measures of skill, capability, and experience.

IP Development. The **ALT PROTEIN CRC** will manage all IP ownership and access to IP generated in the CRC with the intent to secure maximum benefit for the Australian economy. Partners who fund Project IP will negotiate ownership of project IP outcomes relative to their investment and involvement in generating the IP. Background IP will be negotiated between **ALT PROTEIN CRC** and the owner of the Background IP so that freedom to operate access to this IP can be included into any commercial outcomes arising from the project

IP Commercialisation A commercialisation unit of the **ALT PROTEIN CRC** will deliver commercialisation strategies for internal and external uses of translatable IP. Our research partnerships will be enhanced by innovative incubation and acceleration facilities by the **ALT PROTEIN CRC** members *Impact Innovation Pty Ltd* and *Spark Labs Cultiv8*.

Investments and Research. All cash investments will be tied to CRC research projects and receive a defined ratio of commonwealth leverage. Entry investments will be tiered with an initial investment starting at \$50K pa up to \$1,000K pa over 10 years. Entry for research partners can involve cash when acting as an industry partner or via in-kind when working with a cash investing industry partner.

Education and Training. An industry and research focused education and training program will be established to train the next generation of industry leaders as well as reskilling and upskilling existing workforce in the alternate protein sector. The program will deliver industrial PhDs to address the big research challenges, Undergraduates, MBAs and industrial in-house training and skilling in new production, processing, manufacturing and marketing technologies.

Contact:

If you're interested in being part of the **ALT PROTEIN CRC** please contact the following people:

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