AgriFutures AgXelerate Program Industry Priority Areas:

These priorities have been developed in close consultation with the AgriFutures Research Managers and industry research and development plans, ensuring a comprehensive and strategic approach. To participate in this esteemed program, it is imperative that startups present robust solutions that address one or more of these critical challenge areas.

- **Chicken Meat**
  - **Improving environmental sustainability outcomes** – How can we use technology and innovation to improve knowledge on the most significant components of the chicken meat industry's environmental impacts, including sustainable resourcing.
  - **Enhancing chicken biosecurity, health and welfare** – How can we use technology and innovation to support extension and adoption to strengthen industry biosecurity, health and animal welfare?
  - **Contributing to efficient and secure chicken production systems** How can we use technology to drive evidence-based innovation in the application of nutrition principles in Australian chicken meat production?
  - **Ensuring the food safety of Australian chicken meat** – Technology and innovation that can increase the knowledge of managing food safety risks.
- **Export Fodder -** Expot-fodder-RDE.pdf (agrifutures.com.au)
  - **Production of high-quality export-grade fodder** – How can we use technology to improve on-farm productivity and profitability of production of high-quality export-grade fodder?
  - **Supporting innovation across the supply chain** – How can we use innovation and technology to improve productivity and profitability across the Australian export fodder supply chain? Traceability and automation solutions are strongly encouraged.
  - **Environmental sustainability:** How can we use technology and innovation to find a solution to emissions in the Australian export fodder?
- **Ginger -** ginger-RDE.pdf (agrifutures.com.au)
  - **High-quality product and sustainable production systems** – How can we improve the quality, productive and profitability of Australian ginger and supply chain through the use of innovation and technologies?
  - **Market opportunities** – How can we use innovation and technology to identify and capture alternate market opportunities for Australian ginger? For example, development of products, production methods and/or supply chains to gain entry into the health foods and wellness industries,
- **Honey Bee & Pollination** - Bee-RDE-Plan.pdf (agrifutures.com.au)
  - How can we use technology and innovation for scientifically improved hive performance?
  - How can we use technology to identify pests and disease outside of the hive without hive disturbance?
  - How can we use technology and innovation to improve the understanding of pollination strategies that impact crop yields and improve hive health?
- **Pasture Seeds**
  - **Environmental sustainability:** How can we use technology and innovation to find a solution to emissions in the Pasture Seeds Industry?
  - **Precision agriculture and Automation for Perennial Cropping Systems:** How can we use technology and innovation in the pasture seeds industry to help increase productivity and reduce the strain of workforce shortages?

        - **Traceability across the supply chain:** How can we use technology and innovation to find solutions to traceability across the Pasture Seeds supply chain?
    - **Rice -** rice-RDE-.pdf (agrifutures.com.au)
        - **Optimised genetic improvement:** How can technology and/or innovation be used to accelerate genetic improvements in rice varieties?
        - **Agronomy systems:** How can technology and/or innovation be used to increase on-farm productivity in rice agronomy and crop management?
        - **Coordinated industry extension:** How can technology aid extension and accelerate adoption?
        - **Rice weed control through robotics -** identified through the evoke$^{AG.}$ Levied Industries Delegation workshop
        - **Rice grain x-ray to measure quality** – identified through the evoke$^{AG.}$ Levied Industries Delegation workshop
    - **Thoroughbred Horses -** 22-070.pdf (agrifutures.com.au)
        - How can we monitor Thoroughbred horse traceability and welfare through the use of technology and innovation?
        - Technologies and innovation to supports natural mating, breeding outcomes, healthy foals and prediction of future racing performance through investigations on yearlings.
        - Technologies and innovation to detect and treat disease and parasites in Thoroughbred Horses.
    - **Kangaroo** - Kangaroo-RDE.pdf (agrifutures.com.au)
        - Technologies and innovations that can support and validate social license in the kangaroo industry.
        - Artificial intelligence technology to support the increase of consumer perceptions in the kangaroo industry.
    - **Buffalo -** 21-004.pdf (agrifutures.com.au)
        - Technologies and innovations that can support and validate social license in the buffalo industry.
    - **Goat Fibre**
        - How can we create an online broking system for Australian Goat Fibre?
    - **Deer**
        - Traceability technologies that can provide the provenance story of Australian deer to consumers.
    - **Tea Tree Oil**
        - Technologies that can detect adulteration in Tea Tree Oil.
    - **Industrial Hemp** - 22-030.pdf (agrifutures.com.au)
        - Technology and innovation that can aid in increasing industrial hemp production
        - How can technology and innovation help improve the sustainability of the industrial help industry in Australia
    - **Insects** - 20-059.pdf (agrifutures.com.au)
        - Technologies and innovation that help the Australian insect industry continue to thrive.
    - **Seaweed** - 20-072.pdf (agrifutures.com.au)
        - Technology and innovation that can provide ongoing biodiscovery in seaweed
        - Ongoing technology improvement for cultivation, harvesting and processing
        - Advanced aquaculture technologies that can help scale seaweed production in Australia.

- **Sesame** - 21-082.pdf (agrifutures.com.au)
  - How can technology and innovation help to resolve major agronomic and crop-protection issues in Australian sesame?
  - Technologies that can help produce high-quality sesame through the post-harvest supply chain.
- **Marron**
  - Technology and innovation that can aid scaling and production of marron.