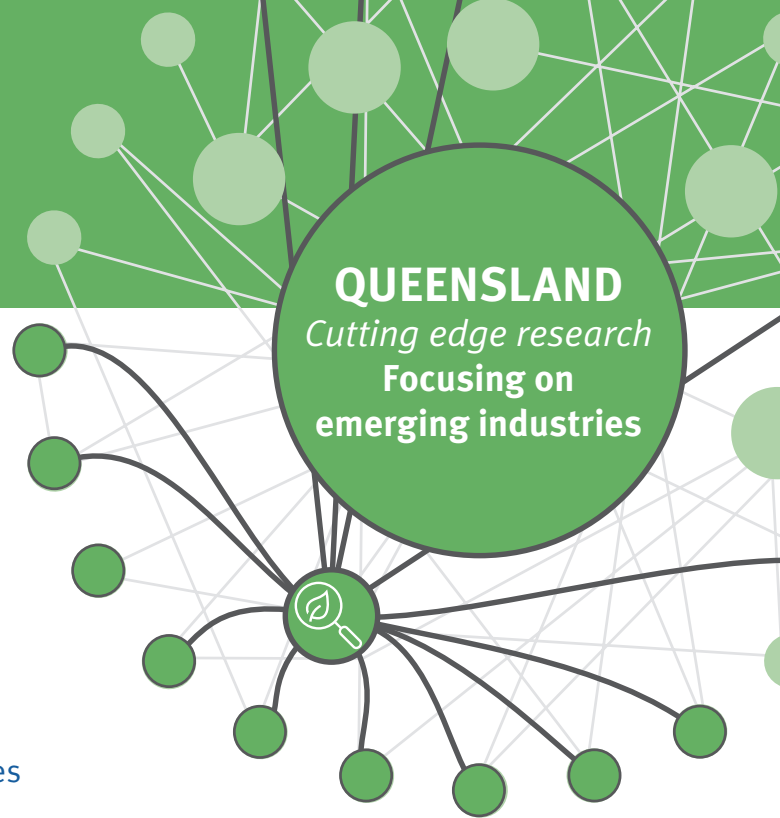


Advanced food and agriculture



Connecting people and places

Take a look at our **STRATEGIC VISUALISATION TOOL** to learn about Queensland's scientific capability in new industries. The tool links with the Queensland Science Capability Directory that provides information on all the research centres in the state. You can also connect with our sector leads.

Visit www.qld.gov.au/ScienceEmergingIndustries

Queensland's unique combination of agricultural and food innovation, world-class institutions and a supportive government, makes us a research and commercialisation powerhouse of the future.

Ben Baldwin
Department of Agriculture and Fisheries

Queensland's competitive advantage

With established collaborative links and partnerships, highly connected infrastructure, a unique variety of climactic zones and natural resources, and profitable and productive livestock, horticultural, and grain industries, Queensland is unparalleled in its ability to support diverse and extensive agricultural industries.

Government and private enterprises, focusing on industry development with a clear ambition for a productive and profitable agriculture, fisheries, and forestry sector, underpin the sector.

The state has a long history of lucrative connections to the world's biggest consumer market in East and South Asia, conveniently close and in a similar time zone.

The sector is supported by government policy, including tax incentives for research and development (R&D) and co-investment for new ventures.

R&D capabilities

With more than 30 government-owned agricultural research facilities across the state, a strong and growing base of agricultural startups and its universities ranking in the top five of advanced agricultural research institutions worldwide, Queensland is well placed to research and produce the foods of the future.

The globally growing market of functional foods is a key research focus and supported by existing collaborations with local biomanufacturing businesses.

Queensland-based research excels in increasing the production and quality of food produced and assisting primary production industries to adopt innovative automation and smart sensing technologies to drive this growth.

Our research is helping to reduce the environmental impact of the sector, by reducing runoff and efficiently using energy and water inputs. Our rigorous biosecurity system is supported by leading research into detection and control of invasive pests and disease.

Advanced food and agriculture

Queensland—a great place to invest and do business



A\$16.99 billion

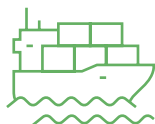
gross value of production in Queensland



Almost

90% of land

used for agricultural production



A\$11 billion

export revenue



2.3 million hectares

of certified organic production



Case study

Agricultural drones minimise pesticide use in the Great Barrier Reef catchment

The Queensland Department of Agriculture and Fisheries is working with canegrowers near Innisfail to adopt the latest drone technologies to control red convolvulus weed in cane farms in the Great Barrier Reef catchment.

Using a combination of mapping drones and larger spray drones allows growers to greatly reduce pesticide use, minimising impact on the surrounding ecosystem.

Mapping drones patrol fields to visualise how crops are performing at a very small scale, enabling growers to consider the scale of management in smaller units rather than whole paddocks. Once mapped, the growing zone for the crop can be improved by tailoring the inputs required for crop growth.

As well, spray drones can be tasked with performing autonomous missions in these exact areas, greatly reducing pesticide use and run-off.

For more information about Queensland's science and innovation capabilities, please visit:



Visualisation tool:

www.qld.gov.au/ScienceEmergingIndustries

Email:

qldscience@qld.gov.au