

QUEENSLAND BIOMEDICAL

10-Year Roadmap and Action Plan PROGRESS REPORT

By 2027, Queensland will be a regionally integrated and globally competitive Asia-Pacific biomedical industry hub, recognised for its excellence in biomedical innovation, highly skilled professional workforce, and world-leading translational biomedical research facilities.



Unite & Recover

The biomedical sector has played a vital role in responding to COVID-19. From developing cutting edge advancements in diagnostics and vaccines to pivoting to the local manufacture of Personal Protective Equipment (PPE). As the global landscape continues to evolve rapidly, the sector will continue to play an important role in Queensland's economic recovery. Queensland is well-positioned to cement its profile as an industry hub for biomedical innovation, development and advanced manufacturing in the Asia-Pacific. The Queensland Government will continue to support biomedical companies to attract and retain highly-skilled, high-value jobs and increase the state's sovereign capability to produce medical goods and respond to future pandemics. I look forward to championing Queensland biomedical businesses and new opportunities for our industry.

The Honourable Steven Miles MP
DEPUTY PREMIER and MINISTER FOR STATE DEVELOPMENT



Case study - Vaxxas

Vaxxas is a biotechnology company that originated as a spin-out from The University of Queensland. Currently based at the Translational Research Institute (TRI) in Brisbane, Vaxxas is experiencing rapid growth to meet unprecedented demand to trial its novel vaccine delivery platform in the wake of the COVID-19 pandemic.

In September 2020, the Queensland Government announced its support for Vaxxas to develop a new manufacturing base in Northshore Brisbane for its high-density Micro-projection Array Patch vaccine delivery system—a proprietary, advanced, needle-free vaccine delivery platform designed to improve the efficacy, reach and economics of vaccination.

The project involves construction and refurbishment of a new facility within an Economic Development Queensland-owned building in the Northshore Hamilton Priority Development Area. Vaxxas will install a bespoke manufacturing line to supply, at scale, clinical-quality product required for phase 2 and phase 3 clinical studies at this facility.

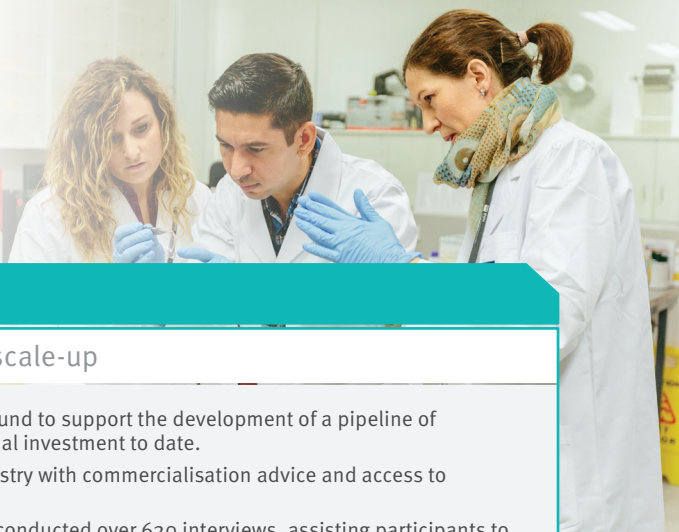
Scaling-up commercial manufacturing capacity to 300 million doses per year is forecast to contribute \$497 million to the economy over 10 years, creating up to 139 additional highly-skilled, knowledge intensive jobs.

Without Queensland Government support, Vaxxas was likely to relocate to the USA and Queensland would have lost the opportunity to manufacture this ground-breaking technology and strengthen its reputation as a manufacturer of high-value and high-quality complex therapeutic products.



Queensland
Government

Achievements under the Queensland Biomedical 10-Year Roadmap and Action Plan



Strategy 1

Support Queensland start-ups to prosper and successfully scale-up

- Twelve innovative projects were supported through the Biomedical Assistance Fund to support the development of a pipeline of investible projects. Funding recipients have secured over \$14 million in additional investment to date.
- Eight start-ups supported through a 'Lean Launchpad' incubator, providing industry with commercialisation advice and access to industry mentors.
- Over 12 weeks, participants spoke to over 580 people in their value chains and conducted over 620 interviews, assisting participants to make new decisions about their customer segment, minimum viable product and future business direction.
- Queensland Health has released its *Digital Health Strategic Vision for Queensland 2026*, which sets the direction for system-wide digital solutions, services and digital innovation, including data access.
- Advance Queensland's Ignite Ideas Fund has supported more than 65 biomedical businesses with funding to commercialise innovative products, processes or services to enable growth, supporting over 700 new or existing jobs.
- Released the Queensland COVID-19 Research Database to enable researchers and industry to see what research is being conducted and other impacts of the pandemic upon our economy and society.

Strategy 2

Support existing businesses to grow and attract new businesses to Queensland

- Five biomedical businesses supported through the Advance Queensland Industry Attraction Fund, creating over 542 jobs and delivering cutting-edge facilities, including Australian Biotherapeutics, LuinaBio and BGI Australia.
- Eight biomedical businesses, including Patheon Biologics Australia Pty Ltd and The University of Queensland, supported over two rounds of the Queensland Biomedical Voucher Program to attract and deliver services to eight national and three international clients.
- Thirteen biomedical networking events were delivered across Queensland and attended by over 900 businesses and industry representatives to facilitate the building of long-term sector relationships.
- Assist companies to capitalise on growth opportunities within the supply chain:
 - Supported Q-Gen Cell Therapeutics to upgrade its cell therapy manufacturing facility to attract international business partners, including US biopharmaceutical company Atara Biotherapeutics.
 - Supported Vaxxas to scale-up its manufacturing facility to deliver its novel vaccine delivery system. Vaxxas is expected to contribute \$497 million to the Queensland economy over the next 10 years.
 - Entered into an MoU with Swiss-based 41medical to establish a contract medical device manufacturer, 61medical, in Queensland to accelerate home-grown medical device development.
- Strengthened Queensland's supply chains and sovereign capability in response to COVID-19 through the Essential Goods and Supply Chain Program with support for eight biomedical companies attracting over \$90 million in private investment and creating 630 new jobs.
- Six biomedical companies supported through Made in Queensland, with a total project capital expenditure of over \$10 million, to adopt innovative processes and technologies and create 210 new high-skilled manufacturing jobs.
- Delivered a funding and support guide to show industry at a glance what funding sources are available for the sector across the development pipeline, with significant uptake and interest from industry.
- MTPConnect has established a Queensland office, and the Queensland Government continues to work closely with MTPConnect to foster the connections and collaborations needed to facilitate the translation of Queensland research and drive commercial success.

Strategy 3

Promote capabilities to attract investment and facilitate alliances

- Supported delivery of three Queensland missions to BIO since the launch of the Roadmap, with over 100 delegates attending each year.
- Partnered with MTPConnect to showcase Queensland's capabilities to the 3300 attendees at the 2019 MedTech Conference in Boston.
- Worked in collaboration with Austrade, MTPConnect and TIQ to deliver eight trade missions to raise global awareness of Queensland's biomedical strengths and capabilities.
- Promoted Queensland's health and knowledge capabilities on the global stage as part of Commonwealth Games Trade 2018.
- Attracted the 2018 AusBiotech conference to Queensland, which welcomed over 1100 delegates from 20 countries and facilitated over 1300 AusPartnering meetings to network, collaborate and discuss sector issues.
- Ipswich, Toowoomba, Sunshine Coast and Gold Coast regional offices hosted precinct visits to showcase capabilities to a range of stakeholders including industry and academia, promoting knowledge sharing and collaboration.
- Published the Queensland Biomedical Industry Snapshot capturing a unified Queensland value proposition to local, interstate and international audiences.
- Developed an online strategic visualisation tool to enable companies to understand Queensland's research strengths in seven emerging industries, including biomedical and personalised and preventative medicine.