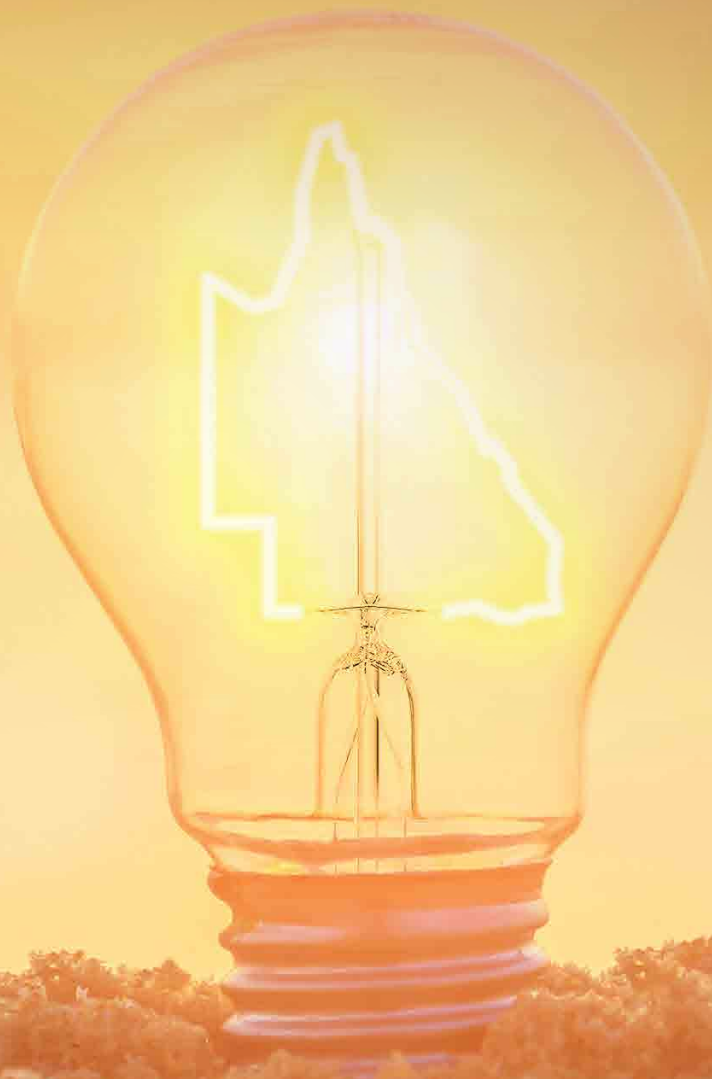




INNOVATION FOR A FUTURE ECONOMY
2022–2032 ROADMAP



*Queensland:
it's our time to shine*



Queensland
Government

© State of Queensland (Department of Tourism, Innovation and Sport) 2022.

This strategy is licensed under a Creative Commons Attribution 4.0 International licence. You are free to copy, redistribute and adapt this strategy, as long as you include the copyright statement above and indicate if any changes have been made. To view a copy of this licence, visit creativecommons.org



Note: Some content in this publication may have different licence terms as indicated.

Disclaimer: The materials presented in this publication are distributed by the Queensland Government as an information source only. The State of Queensland makes no statements, representations or warranties about the accuracy, completeness or reliability of any information contained in this publication. The Queensland Government disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs you might incur as a result of the information being inaccurate or incomplete in any way, and for any reason.

For more information visit advance.qld.gov.au

Premier's message



Queensland is a bright star of innovation, and now is our time to shine even more in the decade up to Brisbane 2032.

Advance Queensland already has an outstanding record, and as we head towards hosting the Olympic and Paralympic Games,

innovation will be more important than ever. That's because our best days are ahead of us, for good jobs, better services and a great lifestyle.

So this roadmap, **Advance Queensland – Innovation for a Future Economy 2022-2032**, will further accelerate the transformation of our economy to create more jobs in more industries. We're confident it will take us where we need, because you've told us we've been on the right track.

As Premier, and as a government, we've worked with you to develop new sectors, whether it's critical minerals, hydrogen, biomedical research, aerospace, aquaculture or advanced manufacturing.

And our innovation investment under **Advance Queensland** has supported the creation, scale up and international success of many Queensland researchers, innovators and businesses.

Now it's time to build on this success, with this unprecedented 10-year opportunity.

The roadmap is for everyone – not only innovators but everyone who benefits from the business, commercial and social progress that follows.

Let's keep working together to unlock even more of our great potential for a bright shining future.

The Honourable Anastacia Palaszczuk MP
Premier of Queensland and Minister for the Olympics

Chief Entrepreneur's message



Queensland is well positioned to take advantage of all innovation has to offer our economy and our community.

What sets us apart is our 'give before you get' philosophy, our strong 'Team Queensland' focus, and our commitment

to building an inclusive and thriving innovation ecosystem that seeks to benefit all Queenslanders, no matter who they are or where they reside.

Working closely with the new Innovation Advisory Council, I am firmly focused on how innovation can transform existing industries to gain greater economic and environmental efficiencies, create exciting new industries such as space technologies and immersive technologies, help grow our regions by taking advantage of their existing competitive strengths, and maximise the economic opportunity for Queensland from the Brisbane 2032 Olympic and Paralympic Games.

Queensland is rich with ideas and the talent to deliver them.

Innovation is all about looking for solutions to challenges. Involving business, researchers, government, investors and the community working together – developing new technologies to help us, our state and our nation, to resolve these challenges in a sustainable and efficient way – making us strong and resilient – and at the same time creating jobs and business opportunities for Queenslanders.

This is just the start of our journey. Let's take Queensland's thriving innovation economy to the world!

Wayne Gerard
Queensland Chief Entrepreneur

Budget 2022/2023 for Innovation

**\$125.2
MILLION**

for **Innovation for a Future Economy**

**\$17
MILLION**

for **Science into Industry**

**\$68.5
MILLION**

for **Resources Industry Development**

**\$140
MILLION**

for **Agriculture and Fisheries**

**\$50
MILLION**

for **Advanced Manufacturing**



ACKNOWLEDGEMENT

The Department of Tourism, Innovation and Sport acknowledges the Traditional Owners of Country throughout Queensland. We pay our respects to Elders past and present.

Advance Queensland – Our Future

This *Advance Queensland – Innovation for a Future Economy: 2022–2032 Roadmap* sets out the direction, key priority outcomes and initiatives for the next phase in Queensland’s innovation journey.

OUR VISION IS FOR QUEENSLAND TO BECOME A LEADING AND SUSTAINABLE WORLD-CLASS INNOVATION ECONOMY.

To fulfil this vision, we have set out six priority outcomes.
We have also established the objectives critical to achieving each outcome.

1 Greater investment attraction and more innovative businesses starting, growing and staying in Queensland

Our priority is capital attraction. This is important for early startups to get off the ground and for more mature companies with good products and services to scale up. Access to a pipeline of investment support is essential for innovative high growth potential businesses to grow and stay in Queensland, reach global markets and create new jobs.

Our objectives are to:

- Attract and retain more innovative businesses in Queensland.
- Increase startup and business survival rates.
- Strengthen Queensland’s venture capital market.
- Increase the value of capital invested in Queensland startups and businesses.
- Increase high-value knowledge economy jobs.

2 Queensland’s world-class research and collaborations are translated into creating commercialisation opportunities

Our priority is research collaboration and commercialisation. Queensland is globally recognised for our research quality. But the commercialisation of research is a major challenge. Improving research–business collaboration and increasing expenditure on Research and Development (R&D) and commercialisation outcomes are important for a thriving innovation economy.

Our objectives are to:

- Increase expenditure on R&D.
- Enhance commercialisation of R&D.
- Improve research-business collaboration.
- Support growth of university research income.
- Increase investment in Intellectual Property.

3 Queensland’s existing and emerging priority industries and talent are globally competitive

Our priority is talent, skills and new technologies. Innovation is critical to growing Queensland’s key priority industries and a high growth economy. We need to continue to build our knowledge economy workforce, encourage more opportunities in STEM and continue to build an entrepreneurial and innovation mindset in schools and students. Having the right skills and talent will ensure Queensland is globally competitive.

Our objectives are to:

- Increase the proportion of knowledge economy workers in the Queensland workforce.
- Enhance the contribution of priority industries to the Queensland economy.
- Increase knowledge-intensive productivity growth.
- Improve STEM uptake and innovation and entrepreneurial skills in education and the workforce.

4 Queensland’s big challenges and events are supported through innovative and sustainable solutions

Our priority is innovative and sustainable solutions. Queensland’s startups and Small and Medium Sized Enterprises (SMEs) can help government address big challenges, such as disaster management and response, through procurement opportunities as well as providing innovative and sustainable solutions for major events including the Brisbane 2032 Olympic and Paralympic Games. Corporates also play a role in embracing innovation opportunities.

Our objectives are to:

- Encourage increased innovation and participation by innovative startups and SMEs in Queensland Government procurement.
- Facilitate more partnerships and contracts between corporates, SMEs and startups.
- Increase investment to support the development and implementation of solutions for key challenges and events.
- Improve business collaboration on innovation.

5 Queensland has world-class innovation infrastructure to drive ideas through to commercialisation, adoption and diffusion

Our priority is innovation precincts and places. We need to develop our innovation precincts and places across Queensland so that researchers, innovators and businesses can collaborate and turn ideas into innovative products and services. Queensland’s statewide network of innovation hubs play an important role in growing our regional innovation economy.

Our objectives are to:

- Position Queensland precincts, places and hubs to reach their full potential for attracting investment and creating jobs.
- Co-locate innovation precincts and places with research, education and training institutes.
- Improve digital infrastructure accessibility.

6 Queensland has a well-connected, inclusive and thriving innovation ecosystem

Our priority is a connected and inclusive innovation ecosystem. Inclusivity and diversity are critical for building a sustainable Queensland innovation ecosystem. This requires targeted support for our regional, female and First Nations innovators. The Queensland Chief Entrepreneur and Innovation Advisory Council provide the leadership and engagement required to accelerate a strong innovation economy.

Our objectives are to:

- Increase the participation of priority cohorts (including regional, female and First Nations innovators) in the Queensland innovation ecosystem.
- Improve business digital readiness.
- Increase regional economic diversification.

Advance Queensland – Our Journey

Advance Queensland was launched in 2015 to drive a more diversified Queensland economy, strengthen regional growth and create jobs.

The Queensland Government has invested \$755 million through Advance Queensland, leveraging more than \$992 million from external partners and supporting more than 28,000 new Queensland jobs.

Advance Queensland is now ready to move to the next phase, capitalising on its successes and accelerating economic growth opportunities for Queensland in the lead-up to the Brisbane 2032 Olympic and Paralympic Games.

This **Advance Queensland – Innovation for a Future Economy: 2022–2032 Roadmap** provides the direction needed to make this happen.



OVER **\$1.7 BILLION INVESTMENT**

including over **\$992 million** leveraged from external partners and investors



OVER **28,000 JOBS**

supported across Queensland as a result of Advance Queensland investment

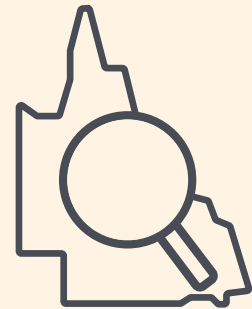


MORE THAN **21,700 APPLICATIONS** for Advance Queensland programs



MORE THAN **7,800 RECIPIENTS** of Advance Queensland funding or other opportunities

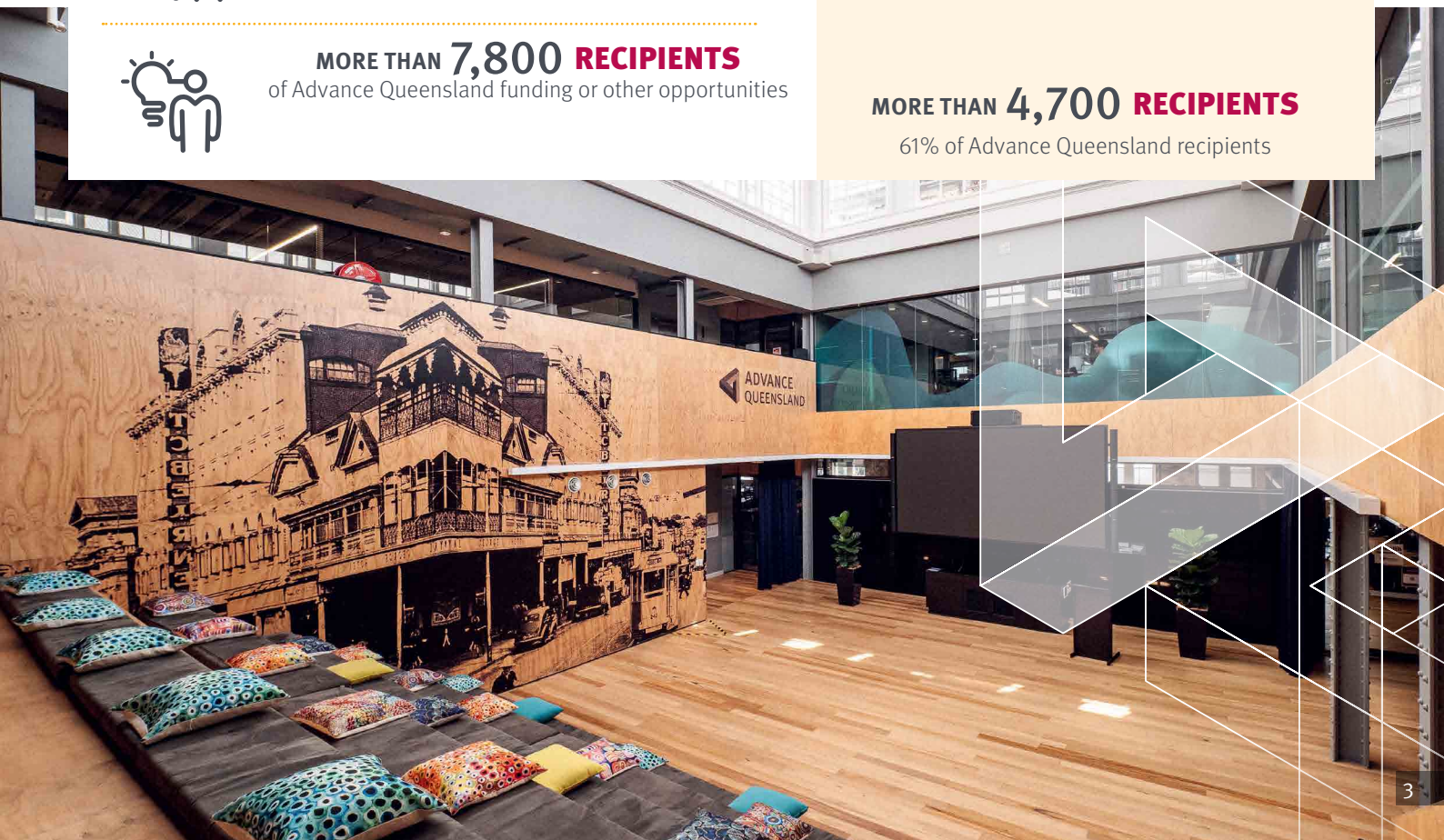
REGIONAL RESULTS



MORE THAN **146,000 ATTENDEES**
57% of all attendees

OVER **11,200 JOBS**
40% of Advance Queensland jobs supported

MORE THAN **4,700 RECIPIENTS**
61% of Advance Queensland recipients



Key Queensland Ecosystem Initiatives – 2022/2023

The **Advance Queensland – Innovation for a Future Economy: 2022–2032 Roadmap** supports inclusivity and diversity and involves the contributions of all stakeholders across the innovation ecosystem including entrepreneurs, startups and scaleups, SMEs, innovators,

universities, research and education and training institutes, investors, corporates, government and the community. The Roadmap will continue to grow and reflect new innovation announcements and achievements from all parts of the ecosystem.

Priority outcomes	Key initiatives	Lead
<p>1</p> <p>Greater investment attraction and more innovative businesses starting, growing and staying in Queensland.</p>	<ul style="list-style-type: none"> ▶ Deliver the Ignite Ideas Fund with enhanced wrap around support services and options to pilot new co-investment models ▶ Explore gaps and options for new capital programs to ensure a sustainable pipeline of innovative business growth for early stage businesses from idea to venture capital ▶ Deliver the Backing Queensland Business Investment Fund (Qld Jobs Fund) ▶ Deliver the Invested in Queensland Program (Qld Jobs Fund) ▶ Deliver small business support programs (Business Growth Fund; Mentoring for Growth; Business Basic Grants; Business Boost Grants; Business Launchpad) ▶ Support innovative firms to scale globally. 	<p>DTIS</p> <p>Treasury</p> <p>Treasury</p> <p>Treasury</p> <p>DESBT</p> <p>DTIS/TIQ</p>
	<ul style="list-style-type: none"> ▶ Active participation in the Tropical Innovation Festival ▶ Deliver Queensland's Innovation Festival ▶ Deliver the Women's Investment Summit ▶ Facilitate smart capital pathways relevant to different parts of the ecosystem. 	<p>QCE</p> <p>QCE</p> <p>QCE</p> <p>IAC</p>
<p>2</p> <p>Queensland's world-class research and collaborations are translated into creating commercialisation opportunities.</p>	<ul style="list-style-type: none"> ▶ Continue to deliver the Industry Research Fellowships (IRF) program to support greater commercialisation outcomes ▶ Pilot the development of technology roadmaps to support the IRF aligned with government's priority industries ▶ Deliver new programs to improve collaboration between researchers and industry and achieve greater commercialisation outcomes ▶ Deliver a regional university commercialisation fund ▶ Deliver a science industry co-investment fund ▶ Support Queensland universities and research institutes and the health system to leverage increased Australian Government funding opportunities such as new Cooperative Research Centres and through the Medical Research Future Fund ▶ Deliver international collaborative research and information sharing programs that support Queensland research to be world-class ▶ Support the Queensland Defence Science Alliance ▶ Support Queensland Hospital and Health Services and health and knowledge precincts to foster research into innovative products and services for translation into improved patient care and commercialisation opportunities, including through clinical trials ▶ Develop a Queensland Science Strategy. 	<p>DTIS</p> <p>DTIS/DES</p> <p>DTIS/DES</p> <p>DES</p> <p>DES</p> <p>DES/Health</p> <p>DES/TIQ</p> <p>DES</p> <p>Health</p> <p>DES</p>
<p>3</p> <p>Queensland's existing and emerging priority industries and talent are globally competitive.</p>	<ul style="list-style-type: none"> ▶ Refresh the 10-year Queensland Government Priority Industry Roadmaps ▶ Deliver the Industry Partnership Program (Qld Jobs Fund) ▶ Deliver the Engaging Science grants program ▶ Deliver the annual Premier's Coding Challenge ▶ Explore future entrepreneurial and innovation workforce opportunities including international student attraction and visa program opportunities ▶ Explore new micro-credentials for innovation skills development ▶ Support existing and emerging industries to remain competitive through the exploration and adoption of new technologies ▶ Support new skillsets and micro-credentials in future technologies, in partnership with TAFE Qld and the resources-sector led Qld Future Skills Partnership ▶ Deliver the Equipping TAFE for our Future program to develop infrastructure to enable skills development in priority and emerging industries ▶ Deliver the Queensland Resources Industry Development Plan including: defining Queensland's new economy minerals potential; a Resources Centre of Excellence; supporting automation and technology skill development through the Queensland Future Skills Partnership and a METS collaborative project fund and Accelerator Program ▶ Deliver the Queensland AgTech Roadmap to drive digital and technological transformation of Queensland's agriculture sector ▶ Continue to deliver the Made in Queensland Grants Program ▶ Continue to deliver the Manufacturing Hubs Grants Program. 	<p>DSDILGP</p> <p>DSDILGP</p> <p>DES</p> <p>DoE</p> <p>DTIS</p> <p>DESBT</p> <p>DCHDE</p> <p>DTIS</p> <p>DESBT</p> <p>DoR</p> <p>DAF</p> <p>DRDMW</p> <p>DRDMW</p>
	<ul style="list-style-type: none"> ▶ Encourage seamless entrepreneurship education pathways ▶ Build innovative thinking in Queensland youth to drive the future generation of innovation ▶ Develop a model for government to consider to attract and activate talent in the innovation ecosystem. 	<p>IAC</p> <p>IAC</p> <p>IAC</p>

Priority outcomes	Key initiatives	Lead
<p>4</p> <p>Queensland's big challenges and events are supported through innovative and sustainable solutions.</p>	<ul style="list-style-type: none"> ▶ Review opportunities to improve innovation in government procurement including access for innovative suppliers ▶ Deliver the Private Sector Pathways pilot program to drive new corporate innovation activity including corporate venturing ▶ Deliver a Low Carbon Growth Lab and Proof of Concept programs to assist Queensland industries to transition to a low carbon economy ▶ Deliver the Queensland Low Emissions Agriculture Roadmap 2022-2032 ▶ Work with NDIS governing partners to support innovation in the disability support services market and contribute to the performance of Australia's world-leading NDIS ▶ Explore ways to improve the efficiency of healthcare delivery through innovative service delivery at the frontline of patient care and an increased culture of innovation throughout all levels of healthcare planning and implementation ▶ Support system-wide collaboration and innovation to build industry ingenuity and sustainability in the active industry ▶ Empower and support innovative community-led responses to local issues through an Innovation Fund, which will support community organisations to take action on the matters that affect their local communities. 	<p>DEPW/DTIS/QCE</p> <p>DTIS</p> <p>DES/QCE</p> <p>DAF</p> <p>DSDSATSIP</p> <p>Health</p> <p>DTIS (Sport & Rec)</p> <p>DCHDE</p>
	<ul style="list-style-type: none"> ▶ Deliver public sector innovation education programs ▶ Develop a Corporate Innovation Pledge ▶ Create awareness and connections for the corporate sector into the Queensland innovation ecosystem ▶ Investigate opportunities to maximise participation of innovative Qld companies in the Brisbane 2032 Olympic and Paralympic Games ▶ Work with industry to develop innovative strategies to decarbonise the economy. 	<p>QCE</p> <p>IAC</p> <p>QCE/IAC</p> <p>QCE</p> <p>IAC</p>
<p>5</p> <p>Queensland has world-class innovation infrastructure to drive ideas through to commercialisation, adoption and diffusion.</p>	<ul style="list-style-type: none"> ▶ Develop a long-term strategy for The Precinct ▶ Collaborate on delivery of the SEQ City Deal Innovation Economy Fund ▶ Support Queensland's statewide innovation hubs network ▶ Deliver the Queensland Innovation Precincts and Places Strategy ▶ Continue to deliver the Research Infrastructure Co-investment Fund to leverage investments by the National Collaborative Research Infrastructure Strategy ▶ Deliver a Smart Farm initiative to increase rates of technology adoption, adaptation and job creation in AgTech development and manufacturing. 	<p>DTIS</p> <p>To be confirmed</p> <p>DTIS</p> <p>DTIS</p> <p>DES</p> <p>DAF</p>
<p>6</p> <p>Queensland has a well-connected, inclusive and thriving innovation ecosystem.</p>	<ul style="list-style-type: none"> ▶ Deliver the Advance Queensland Regional Futures initiative and other regional innovation and collaboration activities ▶ Deliver the Female Founders program ▶ Deliver the Deadly Innovation program. 	<p>DTIS</p> <p>DTIS</p> <p>DTIS</p>
	<ul style="list-style-type: none"> ▶ Continue to provide leadership and engage with the ecosystem ▶ Deliver the Ecosystem Connections and Health and Wellbeing program ▶ Cohost the BiiG Conference ▶ Deliver the 222 in 2022 innovation ecosystem stories campaign ▶ Deliver the innovation ecosystem support strategy ▶ Connect the regions with opportunities to develop innovation and grow their community ▶ Increase awareness and connection of our entrepreneurs and innovators across the broader global community and showcase Queensland innovation success stories ▶ Establish annual Premier Innovation Awards. 	<p>QCE/IAC</p> <p>QCE</p> <p>QCE</p> <p>QCE</p> <p>QCE</p> <p>IAC</p> <p>IAC</p> <p>QCE</p>

KEY INITIATIVE LEADS

DAF	Department of Agriculture and Fisheries
DCHDE	Department of Communities, Housing and Digital Economy
DEPW	Department of Energy and Public Works
DES	Department of Environment and Science
DESBT	Department of Employment, Small Business and Training
DoE	Department of Education
DoR	Department of Resources
DRDMW	Department of Regional Development, Manufacturing and Water
DSDILGP	Department of State Development, Infrastructure, Local Government and Planning
DSDSATSIP	Department of Seniors, Disability Services and Aboriginal and Torres Strait Islander Partnerships
DTIS	Department of Tourism, Innovation and Sport
IAC	Innovation Advisory Council
QCE	Queensland Chief Entrepreneur
TIQ	Trade and Investment Queensland

