

CAPITAL RAISING PRESENTATION - JULY 2026

# Bringing Quantum Computing to Australia

A strategic compute & capability partnership with **IonQ** (NYSE: IONQ)

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# Capitalising on global quantum tailwinds



## Australia's only listed quantum pure-play

ASX: AXE is the sole pure-play quantum technology exposure on the ASX.



## A tier-one quantum partner

Three-year agreement with IonQ (NYSE: IONQ), the world's leading full-stack quantum platform company (~US\$21bn market cap).



## Compute access secured

Cloud access to IonQ Forte-and Tempo-class systems, plus advisory to build sovereign capability in Australia.



## Sovereign positioning

Strategy to become the natural Australian owner-operator of an IonQ system, backed by Archer's quantum R&D and IP.



## Multiple revenue paths

Guaranteed cloud access, develop proprietary applications and IP, and monetise future local infrastructure.



## A large, emerging market

Global quantum ~US\$130bn at maturity; Australian sovereign demand rising across defence, government and enterprise.

# Australia's only listed pure-play quantum company

Archer Materials (ASX: AXE) is developing intellectual property across quantum computing, quantum software and sensing, with 40+ patents filed globally and partnerships with world-class research institutions and industry leaders.



## Sovereign Quantum Compute

Bringing IonQ quantum computing to Australia



## Quantum Software

Quantum machine learning & applications IP



## Quantum Hardware

Carbon-based qubit & sensing technology

## CORPORATE SNAPSHOT

**254.8m**

Shares on issue

**\$0.31**

Share price

**\$79m**

Market capitalisation

**\$10.3m**

Cash

**Nil**

Debt

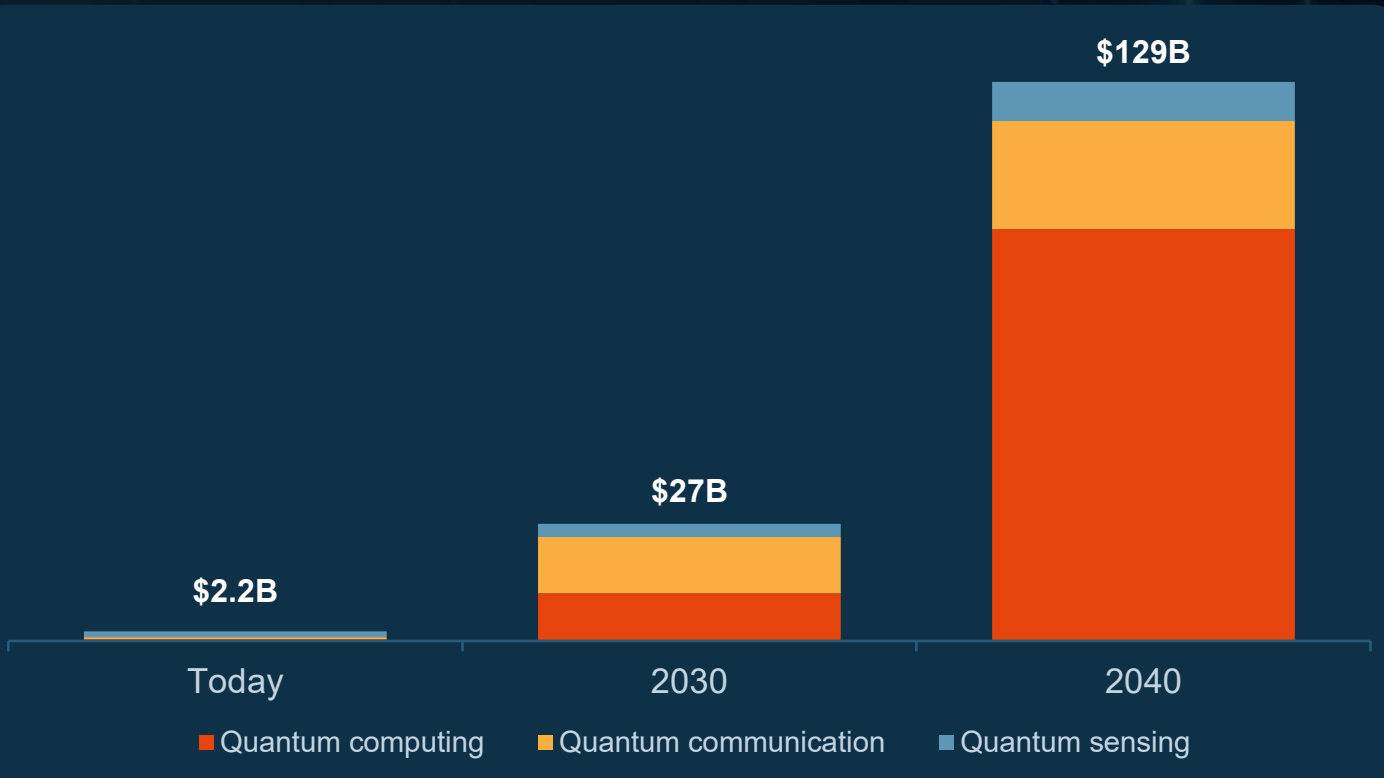
**~25%**

Top 20 shareholders

Note 1: Capital structure and share price as at 23<sup>rd</sup> June 2026, Cash as at 31 March 2026

THE OPPORTUNITY

# Quantum is moving from research to a multi-billion-dollar market



~\$129B

in annual revenue for quantum technology providers at maturity (2040)

Total market grows from ~\$2B today to \$27B by 2030 and \$129B by 2040, led by quantum computing.

Source: BCG analysis (total quantum technology market by segment, US\$B). Quantum computing assumes 20% technology-provider share of value created.

# Why Australia needs quantum computing



## National competitiveness

Quantum is a frontier technology expected to reshape productivity across finance, logistics, energy, materials and health.



## Defence, intelligence & cyber

Five Eyes partners treat quantum as decisive for cryptography, secure communications and defence - driving sovereign demand.



## World-class research, commercialisation gap

Two decades of Australian breakthroughs have yet to translate into local commercial-scale quantum capability.



## Strategic national infrastructure

Sovereign quantum capability is increasingly viewed as critical national infrastructure, not a research curiosity.



## AI-driven compute demand

Exponential growth in AI is straining classical compute and energy limits, accelerating the need for quantum.

## THE PRIZE BY 2045

# A\$6B

projected annual economic value to Australia from quantum technologies

# ~20,000

skilled Australian jobs expected across the quantum sector

# Why Australia needs a quantum computer on Australian soil

## OFFSHORE CLOUD ONLY - TODAY

- ❌ Data and workloads leave Australian jurisdiction
- ❌ Classified defence & government workloads effectively excluded
- ❌ Dependence on foreign providers and US export-control regimes
- ❌ Shared queues, latency and no guarantee of priority access
- ❌ Limited local skills, IP and supply-chain development

## SOVEREIGN CAPABILITY - ON AUSTRALIAN SOIL

- ✅ Data and compute remain onshore and under Australian control
- ✅ Supports defence, intelligence and government-grade workloads
- ✅ Assured, prioritised access independent of foreign supply
- ✅ Builds local quantum IP, skills and supply chain
- ✅ Establishes strategic national computing infrastructure

THE RACE IS ON

# Billions are being committed to sovereign quantum capability

**A\$940M**

Commonwealth + Queensland investment in PsiQuantum to build a utility-scale quantum computer in Brisbane

**~A\$1B**

Further earmarked for critical-technology and quantum companies via the National Reconstruction Fund

**A\$146M+**

Committed to National Quantum Strategy initiatives, including the Quantum Australia centre

**38 / 26**

Australian quantum firms and research organisations, backed by A\$179M+ private investment

## THE COMPETITIVE FIELD

**PsiQuantum** (AU\$1B funding from QLD/Fed Gov) (Brisbane, photonic FTQC) · **Silicon Quantum Computing** · **Diraq** · **Quantum Brilliance** · **Q-CTRL** (US\$24M DARPA)

Most are private, unlisted and hardware-focused. **Archer is the only ASX-listed pure-play and is pursuing a commercial / infrastructure-platform route to sovereign capability.**

Sources: Australian & Queensland Government / DISR announcements (2024); 2024 State of Australian Quantum report; company analysis. Figures are indicative of public commitments.

SECTION

01

# Sovereign Quantum Compute

Archer's strategy to bring IonQ quantum computing to Australia



## WHY IONQ

# Partnering with the world's leading quantum platform company



**~US\$21B**

Market cap (NYSE: IONQ)

**US\$3.3B**

Cash & investments

**US\$130M**

FY25 revenue (+202% YoY)

**US\$260–270M**

FY26 revenue guidance (+104% YoY)

**1,300+**

Staff across 30+ countries

**99.99%**

Two-qubit gate fidelity (record)

- ✓ Full-stack quantum platform: computing, networking, sensing & security
- ✓ Trapped-ion architecture; datacentre-ready Forte and next-gen Tempo systems
- ✓ Technology roadmap toward 2 million qubits by 2030
- ✓ Customers and partners include including Amazon Web Services, Ansys, Google Cloud, Lockheed Martin, and AstraZeneca.
- ✓ In 2025, a joint project with AWS, NVIDIA and AstraZeneca demonstrated more than 20x improvement in computational performance compared to previous quantum implementations
- ✓ Selected for the US DARPA HARQ program in modular quantum computing

Sources: IonQ SEC filings and company announcements (FY2025 results, Q1 2026); figures as reported. Market capitalisation as at June 2026.

# A phased path

## PHASE 1

### Development of client base and Archer applications

*Initial Focus · now underway*

- Access to cloud quantum computing, IonQ Forte/Tempo-class
- Customer acquisition and sales pipeline
- Government and defence engagement
- Build proprietary products & defensible IP
- IonQ + Archer Australian data-centre assessment



## PHASE 2

### Deploy sovereign infrastructure

*Demand-driven: Subject to assessment*

- Become the natural owner-operator of sovereign compute
- Driven by demand created in Phase 1
- Deploy a quantum system onshore
- Offer sovereign managed services
- Scale revenue from local compute



## PHASE 3

### Scale the platform

*Long term*

- Scale to a national quantum platform
- Expand into APAC opportunities
- Trusted operator of sovereign quantum infrastructure

# Multiple revenue stream opportunities



## Applications

Consulting, software and quantum-AI solutions



## Services

Quantum access, subscriptions and managed services



## Infrastructure

System deployment participation and ownership



## Operations

Compute consumption, support and sovereign contracts

**VISION** Trusted operator of sovereign quantum infrastructure across Australia and APAC.



## POSITIONING

# Archer is the right partner for IonQ in Australia



### Deep technical expertise

In-house quantum hardware, software and applications team.



### Strategic IP

40+ patents filed globally across quantum and sensing, plus a growing quantum-algorithm IP base.



### CSIRO QML work

Prototype QML fraud-detection models developed with CSIRO, benchmarked on simulated financial data.



### Australian operating base

ASX-listed (ASX: AXE), Australian-incorporated; operations in Sydney and Adelaide (Lot Fourteen).



### International Network

Network of international partners and collaborators.

## PROOF POINTS

# IonQ already deploys sovereign systems abroad



### QuantumBasel - Switzerland

- First IonQ quantum computer deployed outside the US (Dec 2024)
- QuantumBasel now owns its Forte Enterprise system and a next-generation Tempo system
- Partnership valued at US\$60M+, extending IonQ's on-site presence through 2029



### KISTI - South Korea

- IonQ Tempo to be integrated into KISTI-6, Korea's largest HPC cluster
- First on-site hybrid quantum–classical integration in the country
- Anchors South Korea's National Quantum Computing Centre of Excellence



### A DEMONSTRATED TEMPLATE FOR AUSTRALIA

Switzerland and South Korea have demonstrated the model works. A local partner provides the data-centre and customer ecosystem while IonQ supplies, commissions and supports the quantum hardware - as a low cost, rapidly deployable sovereign solution.

Sources: IonQ / QuantumBasel and IonQ / KISTI announcements (2024–2026).

## THE AGREEMENT

# Key commercial terms

Secured, multi-year cloud compute and joint initiative to build sovereign capability and a customer base.

<b>Overview</b>	Archer has secured multi-year cloud access to IonQ's quantum computers plus a hands-on partnership to build local capability and a customer base
<b>Compute Access</b>	Cloud access to IonQ Forte-class (Tempo-class once available)
<b>Consideration</b>	US\$1.5M total - US\$250k on signing, then US\$250k every 6 months to month 30
<b>Outcomes</b>	Advisory, customer success & strategic collaboration, incl. Australian data-centre suitability assessment
<b>Signed / term</b>	Three-years term to mid - 2029
<b>IP</b>	Archer owns its inputs and results; may develop its own algorithms and IP

Source: Quantum Compute & Professional Services Agreement between Archer Materials Ltd and IonQ, Inc. (effective 18 June 2026).

SECTION

# 02

## Quantum Software

Quantum machine learning and applications IP

**ARCHER**

## SOFTWARE

# Quantum machine learning, built for real-world value

- ✓ Partnered with CSIRO to develop quantum machine learning (QML) models for fraud detection
- ✓ Initial outputs: prototype QML models and performance benchmarks on simulated financial datasets
- ✓ The underlying QML framework is broadly applicable - healthcare, defence & aerospace, cybersecurity
- ✓ Builds defensible IP and the first steps of a customer application pipeline feeding the IonQ partnership



Prototype QML fraud-detection models on simulated financial data

*QML reinforces Archer's strategy to commercialise near-term quantum applications with global impact.*

SECTION

# 03

## Quantum Hardware

Carbon-based qubit and sensing technology

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# How Archer solves the barriers to quantum hardware

Quantum computers process information beyond the limits of classical machines - but face significant manufacturing barriers. Archer is addressing them with carbon-based technology designed to operate in real-world environments.



## Cooling

Reducing the extreme cooling required by conventional qubits



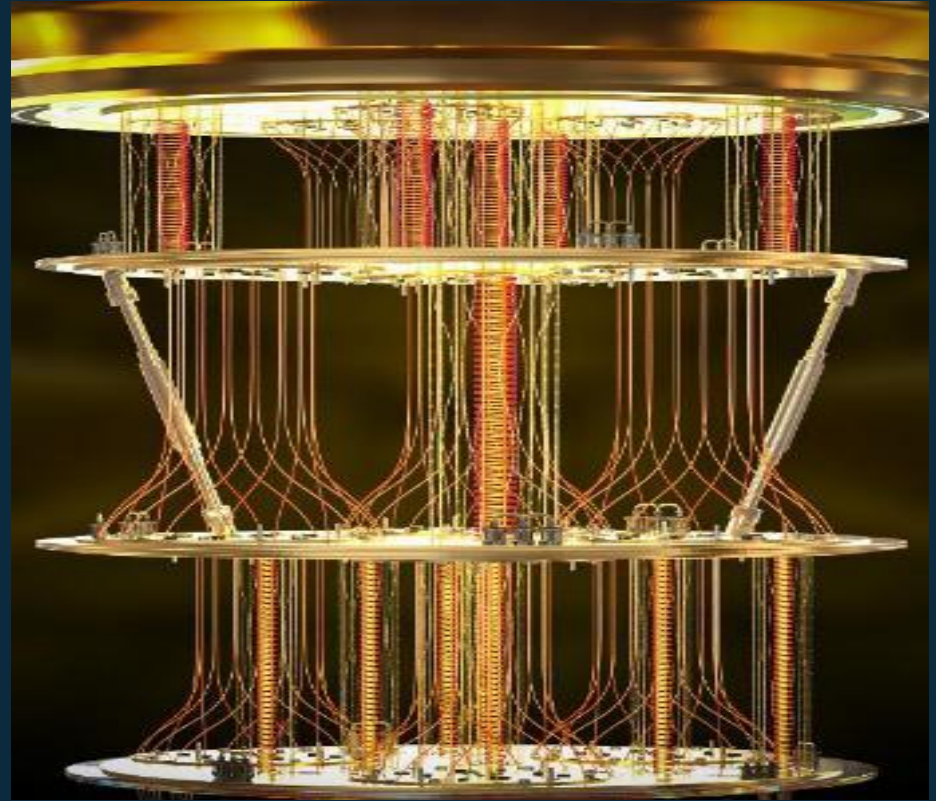
## Stability

Improving qubit stability and control for reliable operation



## Integration

Integrating with today's semiconductor fabrication and chips



# Significant advantages of Archer's quantum chip



## Designed for scalability

Built with materials and processes that can scale using today's semiconductor fabrication and integrate with today's chips.



## Improved control

Improved control capability and stability - a key enabler for building a utility-scale computing system.



## Versatile foundation

Carbon-based materials provide a foundation for sensing and low-power electronics, in addition to computing.



## Commercial focus

A roadmap aimed at licensing and industry partnerships rather than building full quantum machines in-house.

# Lab-on-a-chip biosensing

- ✔ Carbon-based biochip targeting point-of-care blood testing (initial focus: blood potassium)
- ✔ Lab demonstrator / alpha prototype delivered; beta prototype targeted for trials
- ✔ Clinical-trial pathway and North American regulatory engagement underway
- ✔ Next-generation biosensor in development from Archer's R&D pipeline



PARTNERSHIPS

# A global network advancing Archer's technology



SWITZERLAND

EPFL

Quantum chip components



BELGIUM

imec

Biosensor manufacturability & integration



UNITED STATES

IonQ

Full stack quantum platform & merchant



UNITED KINGDOM

Paragraf

Potassium sensing accuracy & reliability



CANADA

HylidX

Biochip cartridge & CKD regulatory pathway



AUSTRALIA

CSIRO

Quantum machine learning



AUSTRALIA

Emergence  
Quantum

Quantum sensing integration

# Archer's quantum business growth pipeline

## ARCHER'S PROPRIETARY IP

- Advanced qubit chips & sensors
- Manufacturing readiness



## STRATEGIC PARTNERSHIP

- Quantum computing platform
- Customer use-case development & software deployment

## MARKET EXPANSION

- QML applications
- Hardware partnerships in comms & AI
- PQC advisory & solution delivery

## SOVEREIGN QUANTUM CAPABILITY

- Quantum computing capability on Australian soil
- Build a broader quantum ecosystem
- Long-term recurring revenue via hardware, software & licensing

## INVESTMENT CASE

# Investment Summary

## INVESTMENT HIGHLIGHTS



### Sovereign quantum first-mover

Australia's first sovereign quantum platform.



### Australia's only listed pure-play

Only pure-play quantum exposure on the ASX.



### Tier-one IonQ partnership

Multi-year agreement with quantum leader IonQ.



### Low-capex, high-margin model

In-house R&D, scaled via foundry & partners.



### Expanding, defensible IP

40+ patents filed globally, plus growing IP.



### Deep technical leadership

Deep-tech team with global scientific advisors.

## KEY CATALYSTS

1

### Working qubit demo — Q3 CY2026

On track to demonstrate a working 12CQ qubit in CY2026.

2

### Wafer-scale manufacturing

Full-wafer graphene runs underway on foundry-grade lines.

3

### QML development pathway

Fraud-detection model validated on live quantum hardware.

4

### IonQ stage 1

Customer engagement underway along with data centre search

5

### IonQ stage 2

Development towards sovereign quantum compute capability

6

### Partnership & M&A Opportunities

Actively seeking to expand global quantum network

SECTION

# 04

## Capital Raising

Archer has received firm commitments to raise A\$7.0m via a two-tranche Placement.

**ARCHER**

# Offer summary & use of funds

<p><b>Placement</b></p>	<ul style="list-style-type: none"> <li>• A two-tranche Placement to sophisticated and professional investors of \$7.0m, comprising of:             <ul style="list-style-type: none"> <li>• Tranche 1 Placement to raise approximately \$6.86 million (before costs) through the issuance of approximately 25.4 million New Shares utilising the Company’s available placement capacity under ASX Listing Rule 7.1 (“Tranche 1 Placement”); and</li> <li>• Tranche 2 Placement to Directors and Management of Archer to raise \$0.14 million (before costs) through the issuance of 0.52 million New Shares, subject to shareholder approval for Director participation at an Extraordinary General Meeting (“EGM”) to be held around mid-August 2026 (“Tranche 2 Placement” or “Director Placement”).</li> </ul> </li> </ul>
<p><b>Offer price</b></p>	<ul style="list-style-type: none"> <li>• Placement Offer Price of A\$0.27 per New Share represents a:             <ul style="list-style-type: none"> <li>• 12.9% discount to the last close of A\$0.310 as at Tuesday, 30 June 2026 ; and</li> <li>• 13.6% discount to the 5-day volume weighted average share price of \$0.312 per share.</li> </ul> </li> </ul>
<p><b>Share Purchase Plan</b></p>	<ul style="list-style-type: none"> <li>• Archer will offer Eligible Shareholders the opportunity to participate in a Security Purchase Plan (“SPP”) and apply up to \$30,000 of New Shares to raise up to A\$3.0 million, and will be offered at A\$0.27 per New Share, being the price paid under the Placement;</li> <li>• Archer reserves the right to increase the size of the SPP or to scale back applications in its absolute discretion</li> <li>• Further details in relation to the SPP including the timetable will be provided to eligible shareholders in an SPP booklet expected to be released following the Placement</li> </ul>
<p><b>Attaching Options</b></p>	<ul style="list-style-type: none"> <li>• Participants in the Placement and SPP will receive the opportunity to subscribe for one (1) free unquoted attaching option for every one (1) New Share allocated in the Offer, expiring on 30 June 2029 with an exercise price of A\$0.35 per Attaching Option (“Attaching Options”)</li> <li>• Issuance of Attaching Options pursuant to the Placement will be conditional on shareholder approval at the EGM to be held around mid-August 2026</li> </ul>
<p><b>Use of Funds</b></p>	<ul style="list-style-type: none"> <li>• Use of funds to support Quantum programs (IonQ client development &amp; project development, QML development &amp; qubit development), Biochip Development &amp; working capital</li> </ul>
<p><b>Ranking</b></p>	<ul style="list-style-type: none"> <li>• New Shares rank pari passu with existing shares on issue</li> </ul>
<p><b>Lead manager</b></p>	<ul style="list-style-type: none"> <li>• Bell Potter Securities Limited (Bell Potter) acted as Lead Manager and Bookrunner to the Placement</li> </ul>

## THE OFFER

# Offer timetable

## Indicative Capital Raising Timetable<sup>1</sup>

## Date

Trading Halt and Bookbuild Opens	Wednesday, 1 July 2026
Bookbuild closes	4:00pm (Sydney Time) Wednesday, 1 July 2026
SPP record date	7:00pm (AEST) Thursday, 2 July 2026
Announcement of Capital Raising and trading halt is lifted	Friday, 3 July 2026
Settlement of New Shares issued under the Tranche 1 Placement	Wednesday, 8 July 2026
Allotment of New Shares issued under the Tranche 1 Placement	Thursday, 9 July 2026
SPP Opens	Friday, 10 July 2026
SPP Closes	Monday, 3 August 2026
EGM to approve issue of New Shares under Tranche 2 of the Placement and Attaching Options	Expected mid-August 2026
Settlement of New Shares issued under the Tranche 2 Placement and Attaching Options	Expected mid-August 2026
Allotment of New Shares issued under the Tranche 2 Placement and Attaching Options	Expected mid-August 2026

1. Indicative only and the Lead Manager and the Company reserve the right to close the Book early without notice

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- is an investment business within the meaning of clause 37 of Schedule 1 of the FMC Act;
- meets the investment activity criteria specified in clause 38 of Schedule 1 of the FMC Act;
- is large within the meaning of clause 39 of Schedule 1 of the FMC Act;
- is a government agency within the meaning of clause 40 of Schedule 1 of the FMC Act; or
- is an eligible investor within the meaning of clause 41 of Schedule 1 of the FMC Act.

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## THE OFFER

# Risks

The following describes some of the external factors and business risks that could have a material impact on the Company's ability to deliver its strategy:

### **Access to Funding**

The Company does not receive any income from its operating business and is reliant on capital raisings, Commonwealth Government research and development tax incentives, and the sale of non-core assets to fund its future operations. Therefore, the Company's ability to continue developing its technology is contingent upon its ability to secure timely access to additional funding as required.

### **Key Agreements**

Development and potential commercialisation of the 12CQ quantum technology intellectual property and associated patents and patent applications are dependent on the Licence Agreement with the University of Sydney remaining in-place. Termination of the Licence Agreement would mean that Archer would be unable to access the intellectual property required to commercialise the associated quantum technology.

Development and potential commercialisation of the transaction with IonQ depend on the agreement with IonQ remaining in force. Termination of this agreement would mean that Archer would be unable to access or purchase an IonQ quantum computer.

### **Intellectual Property**

Commercially exploiting and legally protecting the intellectual property underlying the Company's technology, including its graphene-based lab-on-a-chip biochip technology development, is dependent on the Company progressing its associated patent applications.

The protection of intellectual property, including patents and patent applications, has the potential for third-party claims against the Company's owned or licensed intellectual property. There is a risk that all reasonable efforts by the Company to protect proprietary rights may not be sufficient or effective, including risks that intellectual property may not have adequate patent or copyright protection for certain innovations, that the scope of available protections is insufficient, or that an issued patent may be deemed invalid or unenforceable in certain jurisdictions.

### **Potential mergers, acquisitions and divestments**

As part of its business strategy, the Company may make acquisitions or divestments of, or significant investments in, companies, products, technologies or technology projects. Any such future transactions would be subject to the risks commonly encountered in making acquisitions or divestments of companies, products, technologies, or technology projects.

### **Cyber Security Risk**

Breaches of cyber security is a growing global risk as the volume and sophistication of threats have increased. Risks include unauthorised access to data and information, malicious attacks resulting in outages and disruptions to operations and ransom demands with financial consequences to the Company.

# Risks

## Key Personnel

The Company's technology is unique, with very few people available globally with the required knowledge, skills, relationships, and experience to develop the technologies towards future possible commercialisation. The Company's projects may be delayed or materially adversely affected if key personnel are not available to work.

## Potential commercial viability of products

The 12CQ, sovereign data compute and biochip projects are in the research and development phase. Company staff and external consultants are in laboratories conducting experiments to determine if the materials underlying the technologies can perform as predicted. There is no guarantee that these experiments will be successful.

The Company has not yet commercialised any products and as yet has no revenues. The Company's ability to commercialise the intellectual property and sell products to customers may be affected by many factors, including the commercial viability of, and potential delays in, the delivery of products and technology and the ability to find customers for the Company's products. There is no certainty that the Company will be able to make and sell commercially viable products.

## Regulatory and Compliance Risk

For technologies in the medical and quantum fields, navigating complex and evolving regulatory environments is critical. Medical technologies, in particular, must meet strict safety, performance, and ethical standards before they can be sold or even tested in human trials. This includes approvals from regulatory bodies such as the Therapeutic Goods Administration (TGA) in Australia, the FDA in the United States, and relevant European agencies. Non-compliance or delays in obtaining approvals can stall product development and increase costs.

In the quantum sector, while regulation is less mature, increasing global attention on data security, cryptography, and dual-use technology may lead to new compliance challenges. Failure to meet these emerging regulatory obligations—or to anticipate them in the design and application of the technology—could limit market access or expose the company to fines and reputational damage.

## Market Adoption Risk

Even if the Company successfully develops operational quantum or medical technologies, market acceptance is not guaranteed. Quantum computing is still an emerging field, and its applications are not yet fully integrated into mainstream commercial operations. Similarly, new medical diagnostic tools often face resistance from clinicians, health systems, or patients due to unfamiliarity, perceived complexity, or insufficient clinical validation.

If customers are hesitant to adopt new technologies, or if the Company fails to demonstrate clear benefits over incumbent solutions, the commercial potential of the product may be undermined. This risk is amplified in highly conservative or cost-sensitive sectors like healthcare, where new tools must not only work but also integrate seamlessly into existing systems and workflows. Commercial partners The Company's growth strategy may be impacted if it is unable to find suitable commercialisation partners. The Company's due diligence processes and commercial negotiations may not be successful and a commercial partnership may not eventuate or if finalised may not perform to the level expected. Changes in economic conditions General economic conditions, movements in financial markets, interest and inflation rates and currency exchange rates may have an adverse effect on the Company's business and activities, as well as on its ability to fund those activities.

# Risks

## **Commercial partners**

The Company's growth strategy may be impacted if it is unable to find suitable commercialisation partners. The Company's due diligence processes and commercial negotiations may not be successful, and a commercial partnership may not eventuate or, if finalised, may not perform to the level expected. Changes in economic conditions, general economic conditions, movements in financial markets, interest and inflation rates and currency exchange rates may have an adverse effect on the Company's business and activities, as well as on its ability to fund those activities.

## **Changes in economic conditions**

General economic conditions, movements in financial markets, interest and inflation rates and currency exchange rates may have an adverse effect on the Company's business and activities, as well as on its ability to fund those activities.

# Thank you

Building Australia's sovereign quantum computing capability

**Archer Materials Limited**

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