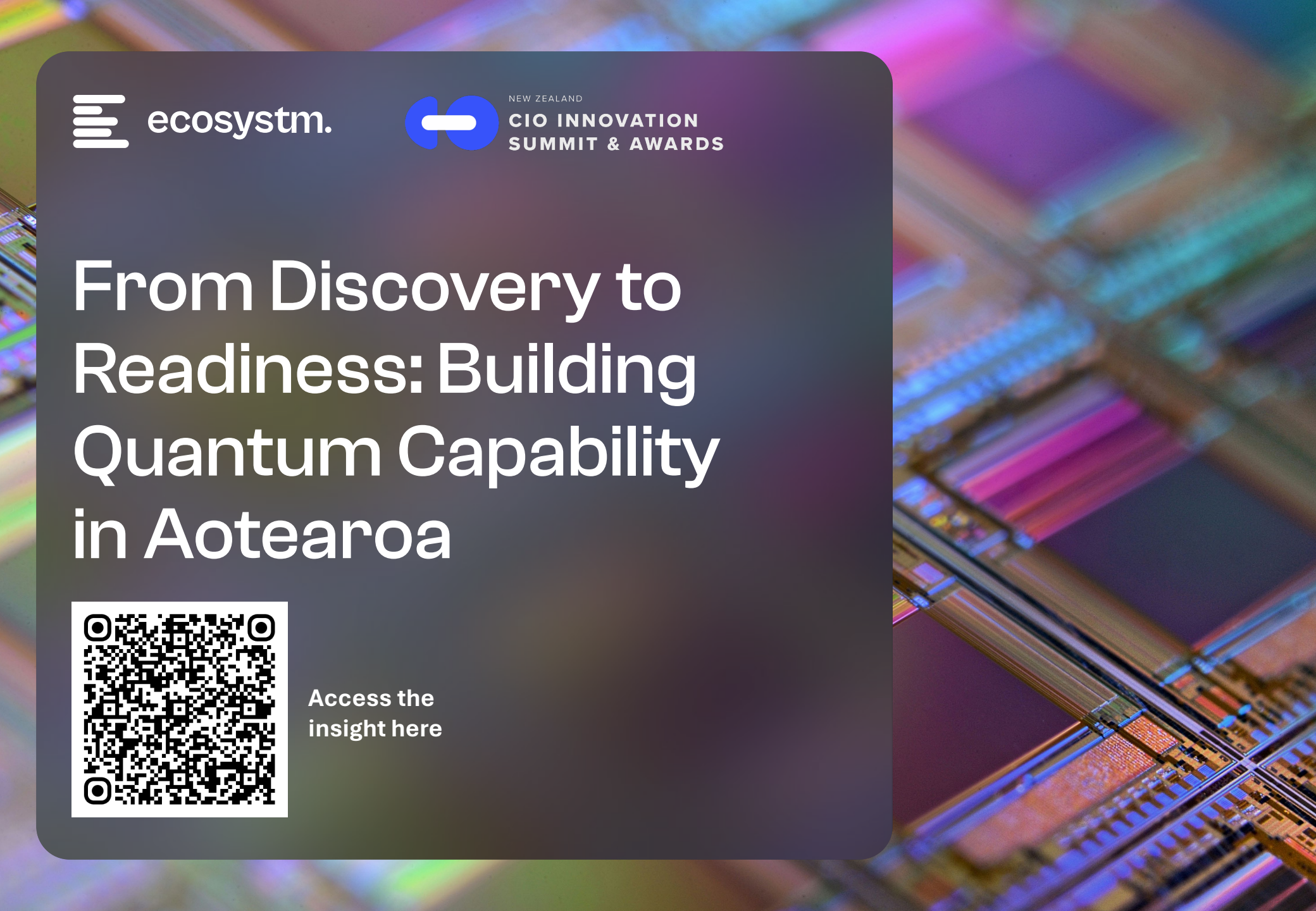
ecosystm.

NEW ZEALAND
CIO INNOVATION
SUMMIT & AWARDS

From Discovery to Readiness: Building Quantum Capability in Aotearoa

Access the insight here



Quantum readiness is becoming a strategic planning issue; not because large-scale quantum computers have arrived, but because decisions made today will shape cybersecurity, data strategy, infrastructure, and future competitiveness.

GLOBAL READINESS GAP

20%

have formal quantum readiness plans

64%

expect quantum computing to become relevant within 10 years

OECD, 2026

The Four Dimensions of Quantum Readiness

Defensive Readiness

Protect critical systems and long-lived data

Economic Readiness

Create value from quantum-adjacent technologies

Strategic Readiness

Define long-term role in the global economy

Ecosystem Readiness

Translate research into national capability

Quantum readiness is not a technology programme. It is the coordinated development of security, industry capability, national strategy, and innovation.

Six Pillars for Building Quantum Readiness in New Zealand

Move from research capability to national capability by aligning government, academia, industry, and enterprise around a shared long-term quantum strategy.

01. **National Mission**
Define national priorities and focus on globally differentiated application domains.

02. **Innovation Ecosystem**
Strengthen collaboration between research, industry, government, investors, and commercialisation.

03. **Workforce & Quantum Literacy**
Build quantum specialists alongside quantum-literate leaders, policymakers, and technology professionals.

04. **Quantum Security**
Accelerate post-quantum cryptography (PQC), cryptographic discovery, and long-term cyber resilience.

05. **Quantum-Adjacent Technologies**
Invest in sensing, photonics, optimisation, simulation, and communications to build capability today.

06. **International Positioning**
Position New Zealand as a leader in quantum applications through partnerships, investment, and targeted industry strengths.

Implications for Enterprise Technology Leaders

Quantum readiness is not about deploying quantum computers. It is about making technology decisions today that remain resilient over the next decade.

Cybersecurity
Understand cryptographic exposure, long-lived data risks, and begin planning for post-quantum cryptography (PQC).

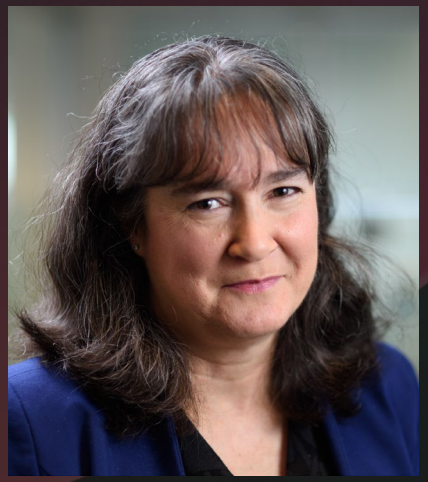
Data Strategy
Strengthen trusted, interoperable data foundations that will support both AI and future quantum-enabled applications.

Technology Architecture
Assess infrastructure, applications, and vendor roadmaps for future cryptographic and technology transitions.

Innovation
Evaluate quantum-inspired optimisation, sensing, simulation, and photonics where they can deliver practical business value today.

Workforce
Build executive and technical quantum literacy to support future investment, governance, procurement, and risk decisions.

Ecosystm Opinion



Louise Francis
Country Manager, New Zealand

"Quantum readiness is less about preparing for a single technology breakthrough than about strengthening the capabilities that will underpin New Zealand's competitiveness, resilience, and digital trust over the coming decade."