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1 June 2026

SITG-Consulting and LFI Announce Strategic Partnership to Deliver Independently Validated, Economically Governed Cryptographic Transformation for Advanced Industry

The partnership closes the validation gap in post-quantum cryptography programmes by combining SITG-Consulting's independent cryptographic governance with LFI's quantum economic architecture, giving boards the evidence and the investment logic to act.

LONDON, UK, 1 June 2026 SITG-Consulting, a UK-headquartered independent advisory firm specialising in post-quantum cryptography (PQC), cryptographic governance, and quantum risk, today announced a strategic non-exclusive partnership with LFI, the world's first industrial quantum economics firm. The partnership delivers the first combined PQC migration capability for advanced manufacturers that is independently validated, economically governed, and board-defensible from inception.

The market problem is structural. Organisations across aerospace, defence, semiconductor manufacturing, energy, and critical infrastructure are under increasing regulatory and fiduciary pressure to transition to quantum-safe cryptography. NIST standardised its first three PQC algorithms in August 2024. Five allied nations imposed quantum technology export controls in the same year. The migration window is closing. Yet the programmes being deployed to meet this challenge are failing for reasons that have nothing to do with cryptography.

They are failing because governance is absent. Cryptographic inventories are fragmented. Cryptographic Bills of Materials (CBOMs) are self-asserted rather than independently verified. Vendor claims go untested. Boards are asked to release capital on the basis of assumptions rather than evidence. The result is transformation programmes that appear to advance but do not establish control.

SITG-Consulting was founded to address precisely this failure mode. The firm's Cryptographic Transformation Implementation Model is a controlled, gated, multi-layered transformation framework spanning strategic, tactical, engineering, and operational domains. Progression is contingent on validated outputs at each stage. No phase advances without evidence.

What has been missing is the economic governance layer. Boards do not fund cryptographic transformation because they understand cryptography. They fund it because someone translates the risk into investment logic, sequences the migration against operational constraints, and holds the programme accountable against economic outcomes. That is what LFI provides through its Quantum Value Stages™ framework and its embedded Chief Quantum Officer (CQO) model.

What the Partnership Delivers

Under the partnership, SITG-Consulting's independent validation, CBOM methodology, and forensic assurance capability integrate directly into LFI's Quantum Security programme. The combined offering operates across three layers.

Independent Validation and Pre-Implementation Review. A forensic, pre-commitment review of any cryptographic transformation design before capital is released. The output is a graded assessment and a Qualification Statement that the board uses to approve or withhold mobilisation. SITG-Consulting does not deliver the subsequent transformation by default, preserving independence.

Quantum-Cryptographic Discovery Sprint. A structured 20-to-30-day diagnostic establishing CBOM visibility, quantum exposure analysis, HNDL shelf-life assessment, and a strategic PQC migration roadmap. This is the entry point when the partnership is the first mover into a client environment.

Pre, During, and Post-Transformation Assurance. Continuous validation of cryptographic inventories, governance gates, hybrid PKI correctness, telemetry and lifecycle control, interoperability, downgrade resistance, and regulatory reporting. This converts a transformation into a controlled operating model rather than a one-off project.

LFI's CQO model provides the economic governance spine: investment sequencing, board communication, regulatory alignment, and commercial accountability. SITG-Consulting's cryptographic governance provides the evidence that the programme is doing what it claims to be doing. The two functions interlock. Neither substitutes for the other.

Leadership Commentary

“Cryptographic transformation without economic governance is a technical project without a commercial mandate. Economic governance without cryptographic proof is narrative without evidence. Together, LFI and SITG-Consulting deliver the first combined offering that is economically governed, cryptographically transformed, and independently validated end to end. Board-ready from day one.”

Brian Couzens, Founder and CEO, SITG-Consulting

“Our clients in aerospace, defence, and semiconductor manufacturing are not waiting for Q-Day. Their data is already being harvested. What they need is not just a technical migration, they need a migration programme their board can stand behind. This partnership means LFI clients now have both economic governance and the independent cryptographic validation to make that case with confidence. That is a material addition to what we can deliver to our clients worldwide.”

Shayne De la Force, Managing Partner and CEO, LFI

Why This Matters

The validation gap in PQC programmes is well documented. Organisations are investing in algorithms, pilots, and vendor tooling without establishing control environments capable of surviving transition. CBOMs are produced by static scan and accepted at face value. Migration milestones are declared on the basis of phase progression rather than evidence of control. Boards are approving expenditure without independent assurance that the baseline is real.

SITG-Consulting's published research across six white papers on quantum risk, PQC governance, CBOM frameworks, and cryptographic transformation has consistently identified this gap as the primary failure mode. The partnership with LFI provides the

commercial vehicle to close it at scale, starting with the advanced manufacturing sectors where long-lived intellectual property, 10-to-30-year product lifecycles, and regulatory obligations make quantum exposure an immediate fiduciary concern.

The partnership is non-exclusive on both sides. SITG-Consulting continues to operate independently across its core sectors: financial services, healthcare, energy and critical infrastructure, telecoms, and government. LFI continues to operate independently across advanced manufacturing. Where client needs span both firms' capabilities, the partnership provides a governed, conflict-free operating model with clear accountability.

Geographic Reach

SITG-Consulting is headquartered in the United Kingdom with global delivery capability spanning Europe, Asia Pacific, the Middle East, and the Americas. LFI operates from Dallas, Texas, with Asia Pacific operations headquartered in Newcastle, Australia, serving Japan, Singapore, and Australia. The combined footprint provides delivery reach across the jurisdictions where PQC regulatory pressure is highest.

About SITG-Consulting

SITG-Consulting is a boutique independent advisory firm founded in 1999, headquartered in the United Kingdom with global delivery capability. The firm specialises in post-quantum cryptography, cryptographic governance, quantum risk, regulatory compliance, and board-level advisory. SITG-Consulting's approach is forensic: expose blind spots, challenge assumptions, and engineer outcomes that stand up to scrutiny. The firm holds no equity stakes in clients and maintains no vendor partnerships that compromise objectivity. Independence is not a positioning statement. It is the structural condition that makes validation commercially valuable. Brian Couzens, Founder and CEO, has authored six white papers on quantum risk, PQC governance, CBOM frameworks, and cryptographic transformation, with further publications scheduled for 2026. Further information is available at sitg-consulting.com.

About LFI

LFI is the world's first industrial quantum economics firm, purpose-built to help advanced manufacturers across semiconductor manufacturing, aerospace, defence, and automotive sectors understand, manage, and govern the economic risks and opportunities of quantum technology. LFI delivers embedded quantum technology leadership through its Chief Quantum Officer (CQO) model, governed by the Quantum Value Stages™, a progressive commercial architecture spanning Quantum Readiness, Quantum Security, Quantum Utility, and Quantum Advantage. LFI is headquartered in Dallas, Texas, with Asia Pacific operations based in Newcastle, Australia. LFI is a member of the Quantum Economic Development Consortium (QED-C). Further information is available at lfiusa.com.

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