

Quantum Links AI: IonQ's S&P 500 Quantum Breakthrough Validates the Hybrid Platform Approach

IonQ's landmark quantum portfolio optimisation benchmark validates the hybrid quantum-classical approach at the heart of the Quantum Links AI platform.

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Quantum computing is no longer theoretical. IonQ's results prove the hybrid model works — and Quantum Links AI exists to make that power accessible to every enterprise."

Tariq Syed, CEO, Quantum Links AI

Quantum Links AI, the intelligent orchestration platform that makes hybrid quantum-classical computing accessible to the enterprise, today welcomed the recent breakthrough by IonQ in quantum portfolio optimization. IonQ's successful execution of a 250-asset S&P 500 portfolio optimization problem on its trapped-ion hardware [1] provides powerful validation for Quantum Links AI's strategic roadmap and its focus on delivering near-term quantum advantage to the financial services sector.

In a recent publication, IonQ demonstrated that moving from a 36-qubit to a 64-qubit subproblem size systematically improved portfolio quality when solving the NP-hard cardinality-constrained portfolio selection problem [1]. Crucially, IonQ utilized a hybrid quantum-classical pipeline, where classical computing managed correlation preprocessing and global recombination, while quantum resources handled the complex subproblems [1].

This hybrid approach perfectly mirrors the core architecture of Quantum Links AI.

"IonQ's results are a watershed moment for the industry," said Tariq Syed, CEO of Quantum Links AI. "They have proven that hybrid quantum-classical pipelines are not just theoretical concepts, but practical tools capable of tackling real-world financial problems at a scale that Wall Street recognizes. This directly validates our mission at Quantum Links AI: to provide the intelligent orchestration layer that seamlessly routes these complex workloads between classical and quantum resources."

The IonQ study highlights the necessity of sophisticated orchestration. To solve the 250-asset problem, the workload had to be decomposed into smaller clusters that fit within the hardware's qubit limits, processed on the QPU, and then recombined and refined classically [1].

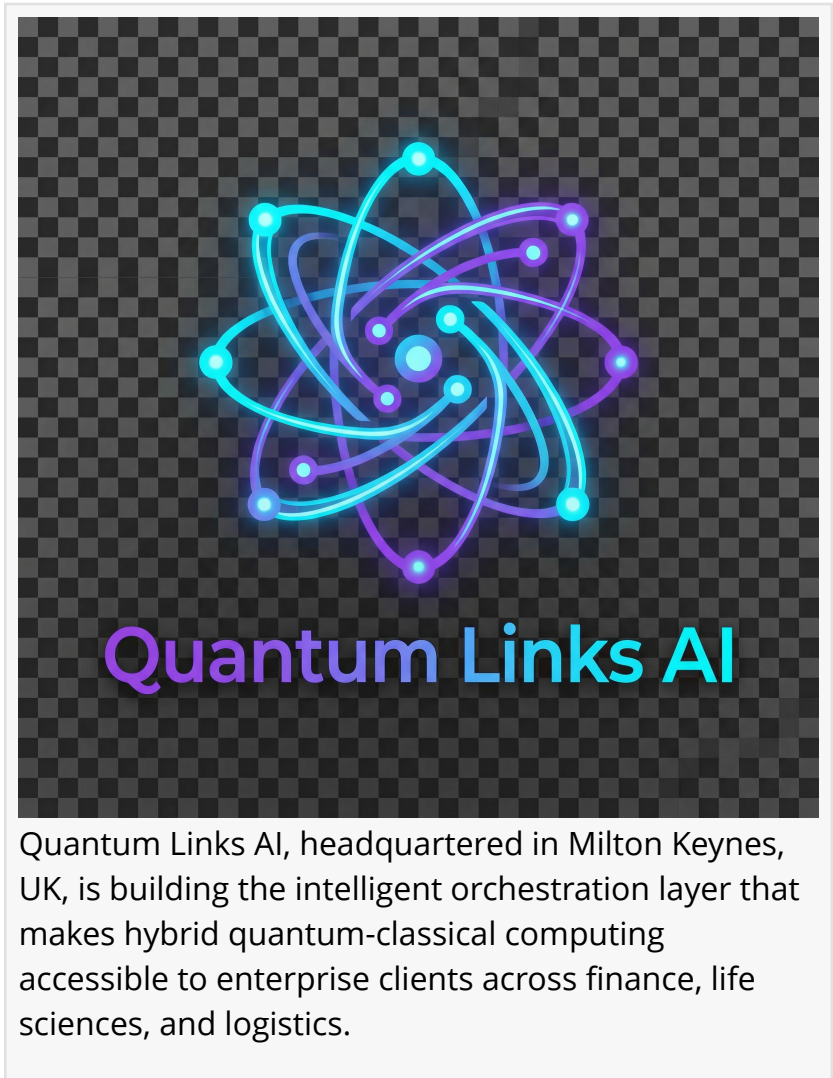
Quantum Links AI is building the exact middleware required to automate this process for enterprise users. The company's recently completed Phase 2 platform features an autonomous, adaptive routing engine that dynamically directs tasks to the optimal backend, optimizing for performance and cost. Furthermore, Quantum Links AI is already fully integrated with the AWS Braket SDK, providing direct access to IonQ hardware, including the Forte systems used in the recent benchmark.

"As hardware providers like IonQ continue to scale their qubit counts and fidelities, the bottleneck shifts from the hardware itself to the software required to manage it," Syed continued. "Enterprises need a platform that can intelligently decompose problems, route them to the right QPU, and recombine the results without requiring a team of quantum physicists. That is the gap Quantum Links AI fills."

Following the successful validation of its core orchestration engine, Quantum Links AI is currently executing its Phase 3 roadmap, which focuses on running benchmark workflows on real quantum hardware. The company is actively expanding its industry problem set to include portfolio optimization and other high-value use cases in finance, supply chain, and life sciences.

For more information about Quantum Links AI and its intelligent orchestration platform, please visit www.quantumlinks.ai.

About Quantum Links AI Quantum Links AI aims to make quantum computing accessible to everyone. The company is developing an intelligent orchestration platform that seamlessly integrates classical and quantum computing resources, enabling enterprises to solve complex problems faster and more efficiently. By providing a hardware-agnostic, self-learning routing engine, Quantum Links AI removes the technical barriers to quantum adoption, accelerating the



Quantum Links AI, headquartered in Milton Keynes, UK, is building the intelligent orchestration layer that makes hybrid quantum-classical computing accessible to enterprise clients across finance, life sciences, and logistics.

path to real-world quantum advantage.

References

[1] IonQ. "[Quantum Computing Meets Wall Street: Running Real Portfolio Optimization on Trapped-Ion Hardware](https://www.ionq.com/blog/quantum-computing-meets-wall-street-running-real-portfolio-optimization-on-trapped-ion-hardware)." March 23, 2026. <https://www.ionq.com/blog/quantum-computing-meets-wall-street-running-real-portfolio-optimization-on-trapped-ion-hardware>

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