



Microsoft and KPMG are Working on Quantum Cloud Projects for Business

By **Abbinaya Kuzhanthaivel** - December 6, 2021



Microsoft and KPMG are working together to explore and solve common business problems utilising quantum-inspired optimisation techniques available through Azure Quantum.

Optimisation problems are found in many industries and are often difficult to solve using traditional methods which can accelerate optimisation.

The companies are teaming up to solve quantum optimisation via software by using emulation of quantum computing on hardware in the Azure cloud.

"Emulating these quantum effects on classical computers has led to the development of quantum-inspired optimisation (QIO) algorithms that run on classical hardware. These algorithms allow researchers, developers, and solution providers to benefit from quantum approaches on classical hardware today, providing a speed-up over traditional approaches," writes Krysta Svore, general manager, Microsoft Quantum in a blog post.

Microsoft says, Azure Quantum is a full-stack, public cloud for quantum computing that allows partners like KPMG to test quantum computing optimisation tools to solve business challenges.

"The Azure Quantum platform allows us to explore numerous different solver approaches utilizing the same code, helping to minimize re-work and improve efficiency. The shared goal for these initial projects is to build solution blueprints for common industry optimization problems using Azure Quantum, which we can then provide to more clients at scale," Bent Dalager, global head of KPMG's Quantum Hub.

The partners have said to focus on benchmarking solutions for financial services portfolio optimisation and telecommunication service fleet optimisation in the initial stages.

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