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Press Release

Quantum innovation for finance: Crédit Agricole CIB and Quandela optimise default risk prediction models

Crédit Agricole CIB and Quandela, a leading European player in the field of quantum computing, today unveil the significant results of their collaboration to develop a quantum-powered solution for credit default risk prediction.

As part of this collaboration, teams from Crédit Agricole CIB and Quandela jointly developed an innovative hybrid classical-quantum algorithm that demonstrates improved predictive performance of credit risk models compared to classical computing methods. This improvement, validated for the first time on photonic quantum processors ⁽¹⁾, underscores the relevance of quantum computing in financial risk modeling.

The advancement creates promising opportunities for the financial industry in areas such as risk management and portfolio optimization. Beyond this, these results demonstrate the value of partnerships between quantum technology players and financial institutions.

“The complementarity of classical and quantum algorithms opens new avenues in our strategy for high-performance computing, particularly in areas such as risk prevention and the optimization of scarce resources. This new collaboration with a key industry player reaffirms Crédit Agricole CIB's commitment to quantum technologies,” says Pierre Dulon, Deputy CEO of Crédit Agricole CIB in charge of IT & Operations Services.

“This collaboration with Crédit Agricole CIB demonstrates that quantum computing is now ready to address real-world challenges in the financial sector,” indicates Niccolo Somaschi, co-founder and CEO of Quandela. “The concrete improvement we have achieved on our quantum computers in predicting credit defaults is just the beginning. Our technology roadmap combined with the expertise of our teams will enable us to further enhance these performance gains in the coming months, providing a significant competitive edge to our partners adopting these hybrid quantum-classical solutions.”

¹⁾ A photonic quantum processor is a type of quantum processor that uses particles of light (photons) to perform quantum calculations.

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About Crédit Agricole Corporate and Investment Bank (Crédit Agricole CIB)

Crédit Agricole CIB is the corporate and investment banking arm of Crédit Agricole Group, the 10th largest banking group worldwide by total assets in 2024 (The Banker, July 2025). With over 10,000 employees across Europe, the Americas, Asia-Pacific, the Middle East and Africa, the Bank supports large and mid-cap corporates and institutional clients, helping them meet both local and global financial needs. Crédit Agricole CIB offers a comprehensive range of products and services in capital markets, investment banking, structured finance, commercial banking and international trade. The Bank is a pioneer in climate finance, and a market leader in sustainable finance, providing a full spectrum of solutions to all its clients.

For more information, please visit www.ca-cib.com



About Quandela

Quandela is a leading quantum computing company. Quandela designs, builds, and delivers industry-grade quantum computing solutions, including datacentre-ready quantum computing systems, cloud-accessible quantum processors, and algorithm services with industrial value. Quandela is committed to making advanced quantum computing accessible to all, empowering innovators to solve the most pressing industrial and societal challenges.

Learn more at www.quandela.com

