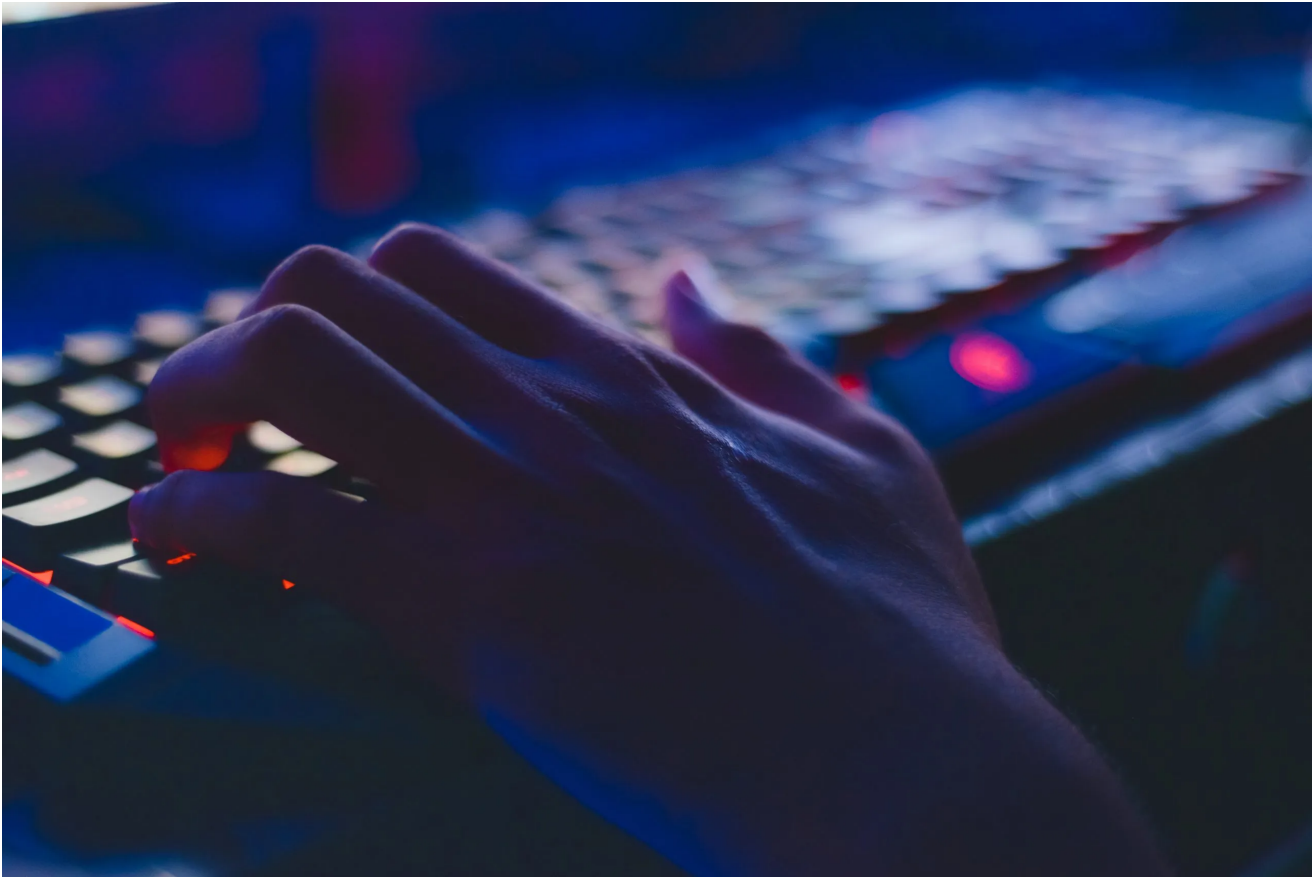


CLOUD COMPUTING

IBM builds Europe's first quantum computing center

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On Tuesday, June 6, US technology company IBM announced its intention to open its first European quantum data center in Germany. The center is scheduled to be operational in 2024.

IBM will open a center in Ehningen, Germany, to facilitate access to advanced quantum computing. This center will offer IBM quantum systems with more than 100 qubits, allowing European users to deploy systems and process data exclusively in Europe. Business, research and government institutions will benefit from this major breakthrough in quantum computing, cementing Germany's position as a leader in emerging technology.

IBM Quantum announces a major breakthrough in the quantum cloud

“Building the quantum computing center of the future and its associated cloud region will open up unprecedented possibilities for European users to address global challenges,” said Guy Gambetta, vice president of IBM Quantum. IBM has announced a new program to improve the routing of quantum computer workflows.

baptized **Multichannel scheduler** », This program will make it possible to efficiently implement programs on different architectures. It will also have the ability to manage the forensic aspects of data in quantum cloud regions. In addition, this software layer, which acts as an orchestrator between the user and the cloud services, will be ready to roll out **Ehningen Centre**.



IBM in Europe

The IBM campus in Ehningen, which includes the various regions of IBM Deutschland GmbH, is the main location for their data center. In 2021, he reached a major milestone with **Launch of the first European quantum computer**, thus strengthening Germany's technological supremacy. more than **60 European organizations** now take advantage of the IBM Quantum Network's quantum hardware and software through the cloud. Among these organizations we find BOSCH, the University of the German Armed Forces, Crédit Mutuel Alliance Fédérale and the German Electronic Synchrotron (DESY). In addition, E.ON and the European Organization for Nuclear Research (CERN) are also partners.

They explore potential applications of quantum computing in various fields. These areas include materials science, high energy physics, energy transition, sustainability and financial applications. European region **IBM QuantumCloud** He plays a major role in IBM's efforts. They seek cooperation with major European companies, universities and government agencies. The goal is to advance quantum computing and **Strengthening skills in Europe**. Thus, the Ehningen campus is positioned as a dynamic center for technological innovation in Europe. It drives the development of quantum computing on the continent.

German strategy for quantum technology

The plan for Germany's first European region of IBM Quantum Cloud fits perfectly into Germany's quantum strategy. Recently, in a presentation to the Bundestag, the government unveiled **Concept work titled** "The working concept of quantum technologies". The aim is to position Germany as a **The world leader in quantum technology** And keep up with China and the United States. In this quest for technological supremacy, Germany aims to exploit the potential of quantum technologies. The goal is to solve societal challenges related to climate, energy, health, mobility and security research. To do this, you would like to use the developments in this area. The plan sets clear goals **Germany achieves this technological progress by 2026**.

For a technologically sustainable and sovereign Germany, early identification of emerging technologies and their potential is crucial. This will create a favorable environment for its future development and use. The business plan also indicates the need to actively contribute to shaping the technological leap. Global competition in the field of quantum computers has a commercial and strategic aspect. This race stimulates their superior power over conventional supercomputers. Moreover, their ability to challenge ordinary

cryptographic techniques reinforces this importance. As a result, Germany positions itself as **A major player in this evolving field**. It is in perfect synergy with the first European IBM Quantum Cloud project.

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