QuantumBasel
Center of Competence
for Quantum and Artificial Intelligence

uptown Basel

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# Global Quantum Symposium: International visionaries on game-changing future tech advancements

**From March 18th to 20th, 2024, the Global Quantum Symposium at uptownBasel featured more than 50 leading experts in quantum technology, unveiling their latest discoveries. Offering captivating insights, the event hosted by QuantumBasel drew over 300 attendees, hailing from every corner of the globe. The roster of speakers impressed with visionary figures from diverse sectors, including prominent university academics, industry leaders, government officials, and representatives from international organizations such as the WEF, NATO, and technology innovators.**

Quantum technology is regarded as a promising field, particularly when combined with artificial intelligence. The question is not whether it will prevail, but when. Thus, not only future developments but also existing industrial applications were presented. McKinsey estimates the potential of this technology to reach around $1 trillion by 2035, solely for key sectors such as automotive, financial services, chemistry, and life sciences. Governments and major corporations are investing billions in researching this technology and engaging in a race to deploy it. Matt Langione from the Boston Consulting Group estimated during the symposium that the first 10% of users are likely to generate about 90% of the intellectual property in the field of quantum computing.

Damir Bogdan, CEO of QuantumBasel and local host of the Global Quantum, underscores the importance of international knowledge exchange and strong industry-university networks in this swiftly evolving field. In cooperation with Prof. Daniel Loss, Head of Science at the University of Basel, the Symposium gathered leading figures from research, industry, and government, fostering the free exchange of ideas crucial for the forthcoming technological revolution.

## Innovative Industry Strategies

Enterprises like Vinci Energies and Erste Group Bank demonstrated how they utilized quantum computing to notably improve the effectiveness of heating, ventilation, and air conditioning systems in intricate buildings, as well as to optimize the emission allocation for green asset.
There is unanimous consensus: the pace of development is accelerating beyond initial expectations. This sentiment was echoed by prominent quantum computing providers, who unveiled their progress in both hardware and software.

**Research Insights and Unpublished Studies**

Leading universities presented current findings, including previously unpublished studies. Their research is focused on advancing the next generation of quantum computers, which includes spin qubits and superconducting annealers. The emphasis lies in enhancing the quality of qubits, the fundamental components of a quantum computer.

**Next Global Quantum Symposium Looms on the Horizon in 2025**

QuantumBasel is pleased to facilitate this exchange through its commitment, thereby strengthening Switzerland's research landscape. "We will build upon this year's success and begin early planning for the next Global Quantum Symposium in 2025, complemented by even more national partners," announced Damir Bogdan.

**About QuantumBasel**
QuantumBasel stands as a competence center for quantum and AI technology in Switzerland, driving access to commercial quantum computing to foster innovation. The center emphasizes technological neutrality, encompassing superconductors, ion traps, and annealers. QuantumBasel collaborates closely with technology partners such as IBM, D-Wave, and IonQ. Notably, IonQ is currently constructing its first European quantum computer at the uptownBasel location, with completion expected by the end of 2024. With a proficient team of quantum and data scientists, QuantumBasel offers customized training and quantum projects tailored for both businesses and academic institutions.
Through the establishment of a globally interconnected ecosystem, QuantumBasel empowers companies across diverse sectors, along with startups, universities, and colleges, to access specialized expertise and cutting-edge technologies that would otherwise be beyond their reach.

www.quantumbasel.com

**About uptownBasel**
uptownBasel is an international competence centre for Industry 4.0 – networked with the world, anchored in Europe, and rooted in Basel. On the historic Schorenareal site in Arlesheim near Basel, an approximately 70,000 square metre research and production site is being built, where selected companies and their technologies will thrive. The focus is on healthcare, logistics and industrial production as well as the cross-sectional function of digitalization. The subsidiary QuantumBasel operates Switzerland's first commercially usable quantum computer hub, for this purpose. As a platform for networked companies, uptownBasel drives the knowledge transfer across industries and disciplines and promotes the realization of latent ideas – in the areas of robotics, Internet of Things, artificial intelligence, mobility of the future, or agile working. In total, the housing of 50 to 100 companies with up to 2500 jobs is planned. The investment volume amounts to over 500 million Swiss francs. uptownBasel is made possible by the private ownership of the family Monique and Thomas Staehelin and implemented by Fankhauser Arealentwicklungen.

www.uptownbasel.ch

**Photographic material:**

Please visit the digital press kit for current photos, videos, and all other information:
https://quantumbasel.com/presskit/presskit-global-quantum-symposium-2024-de

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