Press release of SaxonQ GmbH

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Launch of the world's first mobile quantum computer.

Deep-tech start-up SaxonQ, a spin-off from the University of Leipzig, is embarking on what is probably the most exciting technology journey of the year. The goal is to bring the world's first mobile quantum computer to market. Mobile is to be understood literally here. Because SaxonQ's quantum computer is not only small enough to be installed in an automobile for the first time, but it also operates completely without cooling. Even at room temperature. A true revolution. Conventional quantum computers to date have been huge because they require elaborate cooling to maintain the sensitive superpositions in the quantum chips. The cooling and control technologies take up most of the construction volume of these quantum computers. This means that the current quantum computers rule out mobile use from the outset. Miniaturization makes it possible to use NV-based technology in mobile quantum computers using diamonds. NV centers in diamonds are specifically generated atomic centers, each consisting of a nitrogen atom and a vacancy (missing carbon atom), which exhibit quantum physical effects already at room temperature. SaxonQ's mobile quantum computer is thus barely larger than a desktop PC.

Right from the start, ahead of the game.

To ensure that "Developed in Germany" also becomes "Made in Germany", SaxonQ has now received a seed investment from Q.24 GmbH, a medium-sized German investor group. The background to the investment is Germany's world-leading position in NV center-based quantum technology. SaxonQ is expanding this patented technology for mobile quantum computing. Philipp Mirliauntas, Managing Director of Q.24 GmbH, says of the group's commitment: "Business and research are coming together to make groundbreaking basic research usable for industry. With our diverse competencies as a medium-sized investor group, we can successfully accompany SaxonQ." Prof. Dr. Marius Grundmann, Managing Director of SaxonQ GmbH, added: "Our product represents a paradigm shift in the field of quantum computing, small, mobile, cooling-free and energy-efficient. With the support of Q.24, we will strengthen our team and achieve our development goals faster."

This is an important step for Germany as a high-tech location. Too often in the past, despite the best conditions and crucial basic research from Germany, it has failed to participate in important tech revolutions, especially commercially. This should certainly not be repeated in the upcoming quantum technology revolution for mobile devices. The involvement of the investors improves the chances of being at the forefront of key technologies such as mobile quantum computing right from the start. So that the German economy will benefit this time when unimagined sales opportunities arise today.

The heads behind SaxonQ and Q.24 with the world's first mobile quantum computer. From left to right: Dietrich Turck, Jens Meiser, Stephan Schuldt (SaxonQ), Michelle Grundmann (SaxonQ), Philipp Mirliauntas, Prof. Dr. Marius Grundmann (SaxonQ), Arthur Rönisch (SaxonQ), Laura Turck-Hahn, Thomas Preuhs, Klaus Joachim Schiller, Dr. Bernd Burchard (SaxonQ), Dr. Marcus Disselkamp

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