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German Commercial Consortium Moves to Bolster Quantum Computing Industrial Use

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RECENT DEVELOPMENT

Ten leading German corporations recently stood up the Quantum Technology and Applications Consortium ([QUTAC](#)) to explore and promote the commercial application of quantum computing (QC) targeted for the German industrial base as a way to ensure German competitive advantage across a broad array of industries. The effort spans industrial sectors and founding members that include automotive manufacturing (Bosch, BMW, and Volkswagen), chemical and pharmaceutical (BASF, Boehringer Ingelheim, and Merck), insurance (Munich Re) and technology (Infineon, SAP, and Siemens). AIRBUS is participating as an external contributor.

QUTAC aims to raise quantum computing to the level of large-scale industrial applications in areas including engineering and design, material science, and production and logistic problems in the machine learning, optimization, and simulation spaces. Initially identified high-impact use cases include AIRBUS wing design optimization, BASF molecular quantum chemistry, Volkswagen battery research, BMW vehicle feature testing optimization, and SAP supply chain planning. Additional agenda items for the effort call for increased industry end user collaboration to maximize funding and avoid redundancy as well as serve as a market incubator to help initiate a research/product/market virtuous cycle.

ANALYST COMMENT

With this newly stood up consortium, Germany joins a number of counterpart industrial-based national and international level QC-related consortia including the US-based Quantum Economic Development Consortium, the EU-wide European Quantum Industry Consortium (QuIC) and Japan's Council for New Industry Creation through Quantum Technology. The wide-spread stand up of such groups provides a strong indication that industrial users around the world are eager to explore the performance potential of quantum computing but want to ensure that technology and product developments by the nascent QC supplier sector target relevant applications and real-world use cases. For their part, quantum computing suppliers can only benefit from working with such groups in order to better focus their development activities to respond to what appears to be significant and growing commercial interest in the technology.

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