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Company name:	TerraSky Co., Ltd.
Name of representative:	Hideya Sato, Representative Director Executive President & CEO (Securities code: 3915; TSE Prime Market)
Inquiries:	Koichiro Tsukada, Executive Managing Officer & CFO (Telephone: +81 3 5255 3410)

Quemix Announces Results of Collaborative Research

Quemix Inc., a member of the TerraSky Group, in collaboration with Asahi Kasei Corporation, the University of Tokyo, and a research group at the National Institutes for Quantum Science and Technology (QST), has successfully demonstrated the potential of aluminum nitride for new applications by performing quantum chemical calculations* using a hybrid computing system that combines Quantinuum's quantum computer and a supercomputer at the Institute for Solid State Physics of the University of Tokyo. This is the world's first attempt (as of the end of February 2025, based on a survey of published papers, according to Quemix) to execute an algorithm for FTQC on a logic bit using a quantum error detection code on an actual quantum computer.

**Quantum chemical calculation: A calculation that attempts to reproduce and predict the properties of a substance in a virtual space by constructing the substance in the virtual space of a computer and simulating the behavior of electrons and atomic nuclei through quantum mechanical calculations.*

For details, please refer to the news release of Quemix, Inc.
URL: https://www.quemix.com/post/press-ftqc-asahikasei-utokyo-qst-accepted

Quemix Inc.
Headquarters: 2-11-2 Nihonbashi, Chuo-ku, Tokyo
Representative: Yuichiro Matsushita, CEO and President
URL: https://www.quemix.com/