

To whom it may concern,

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Notice on Presentation of Quantum-related Business --Aiming for New Entry of Quantum Internet Market--

Please be informed that we will announce the contents of "Notice on the Successful Verification of Microcells for Quantum Sensors at The University of Tokyo -Contribution to the Research of the Dark Matters in the Space-" at the 2nd quarter financial results briefing for the March 2023 term to be held on December 14 (Wed), 2022 that has been already disclosed as PR information dated November 7, 2022, as well as our future activities to enter in the quantum internet business.

1. Overview of quantum-related business

Recently, due to rapid development of quantum computers, it is said that communication ciphers with conventional public keys will be easily cracked and secure communication and prevent secure communication on the internet. Accordingly, projects of quantum internet are rapidly progressed using quantum keys which cannot be cracked with a quantum computer. The scale is estimated to be a large market joining in the current internet (See the Fig. below)

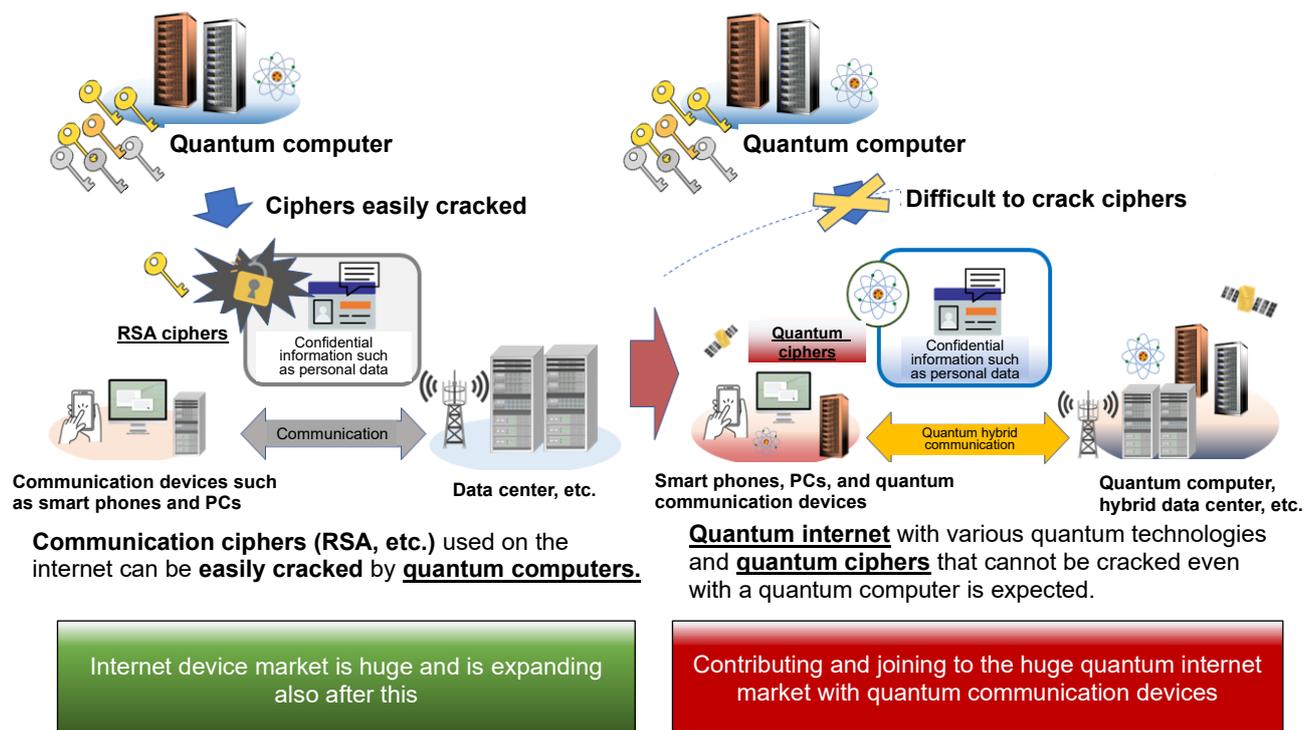


Fig. Current internet and quantum internet in the society with quantum computers

In the current internet, there is a risk of information leak due to cracking ciphers by quantum computers. Accordingly the quantum internet using quantum technology such as quantum key communication, etc. is rapidly progressed.

We are aiming at entering in the quantum internet business such as quantum key communication, etc., maintaining relationship with people of universities who kindly cooperated with, in addition to conventional high-speed fiber communication equipment.

In the circumstances that the needs of the times and societies are significantly changed, we are finding new tasks and needs, and expanding from the conventional field to the new field which leads to our business expansion. We will contribute to realizing "decarbonized societies" by providing solutions in the "communication," "energy," and "the universe" also after this.