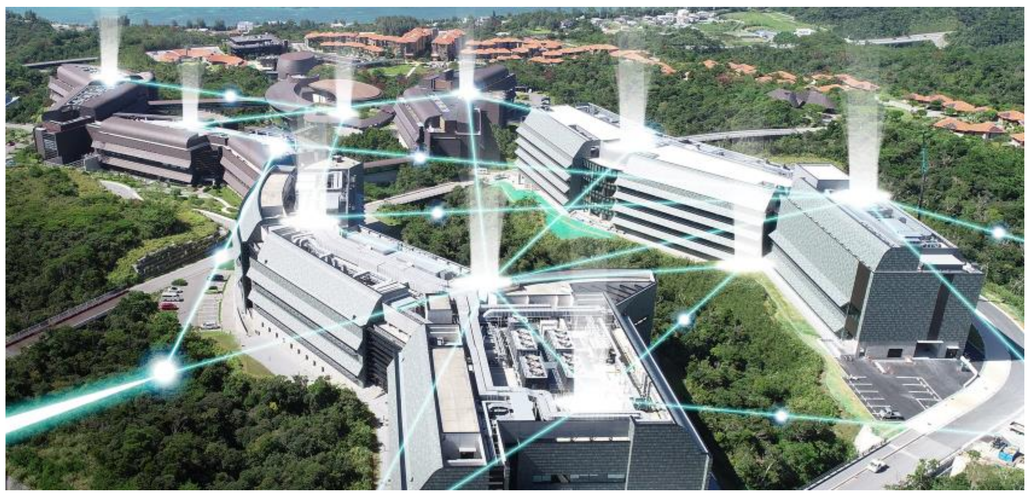
Quantum Technology International Collaboration Hub
（Okinawa Institute of Science and Technology (OIST) ）

QIH Quantum Innovation Hubs

1． Mission

○ Promote cutting-edge research and development in quantum technology through international collaboration.

○ Provide education for researchers and next generation leaders through research and development in an international environment and contribute to the medium-to-long-term development of quantum technologies.



2． Activities

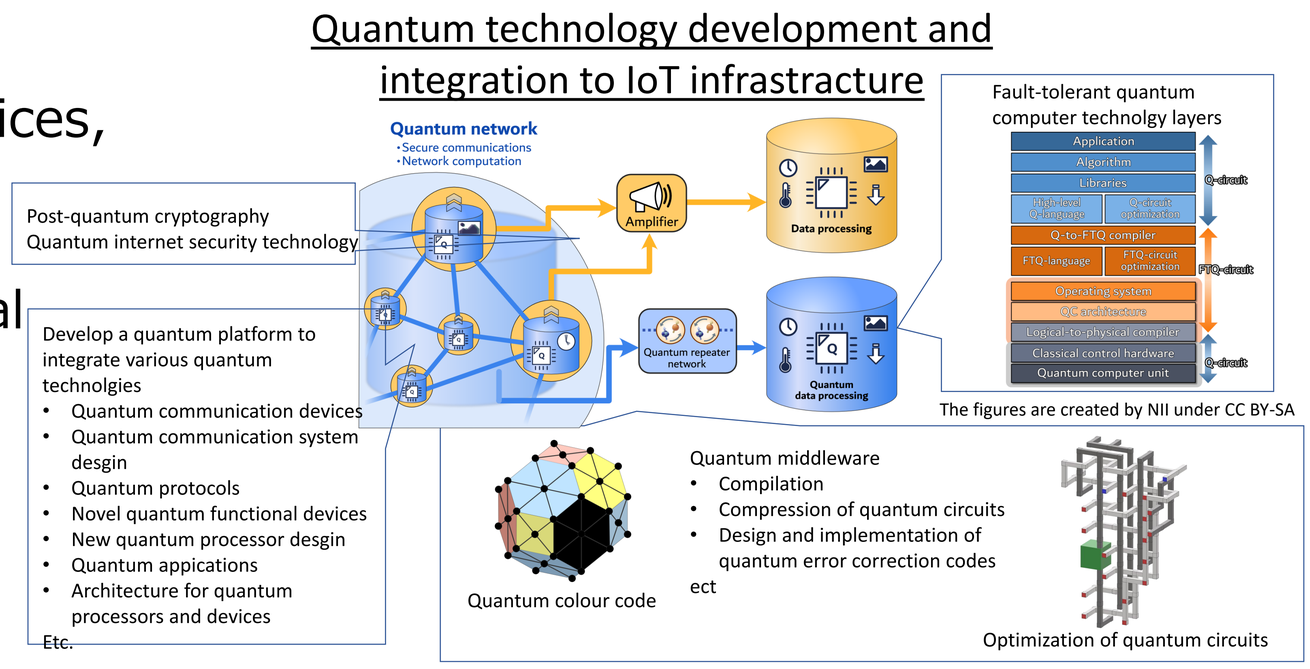
From Okinawa to the World: contributing by creating new innovative technologies.

The OIST Center for Quantum Technologies was established in October 2022. This center functions as a core for the various activities associated with cutting-edge international research and human resource development, as well as industry-academia collaboration. We aim to develop quantum technologies from basic research to their social implementation and educate highly skilled human resources through conducting the cutting-edge research.

① Research Projects

From fundamental to applied and integrated research to maximize the impact of quantum technology in our society.

- Quantum computation technologies: quantum algorithms, applications, devices, architectures & machine learning.
- Internet of Quantum Things (IoQT)
- Quantum sensing & quantum functional devices: design and realization
- Cryptography technology and security for the future quantum society



② Global Collaboration

Strengthen our innovative international research environment with diverse expertise

- International conferences, workshops and summer schools to promote innovative developments in quantum science & technology through gathering excellent researchers with various backgrounds from Japan and world-wide

③ Human resource development with Industry

Human resource deveopment for quantum technologies funded by SIP 3rd program (from November 2023 to March 2028)

- Quantum literacy program (in Tokyo)
- Research Tech program (for the corporate workforce)
- Global-leadership program

We promote quantum literacy in the wide industrial workforce landscape and integrate quantum skills & knowledge to their existing technological basis. A key focus is on developing next generation leaders.