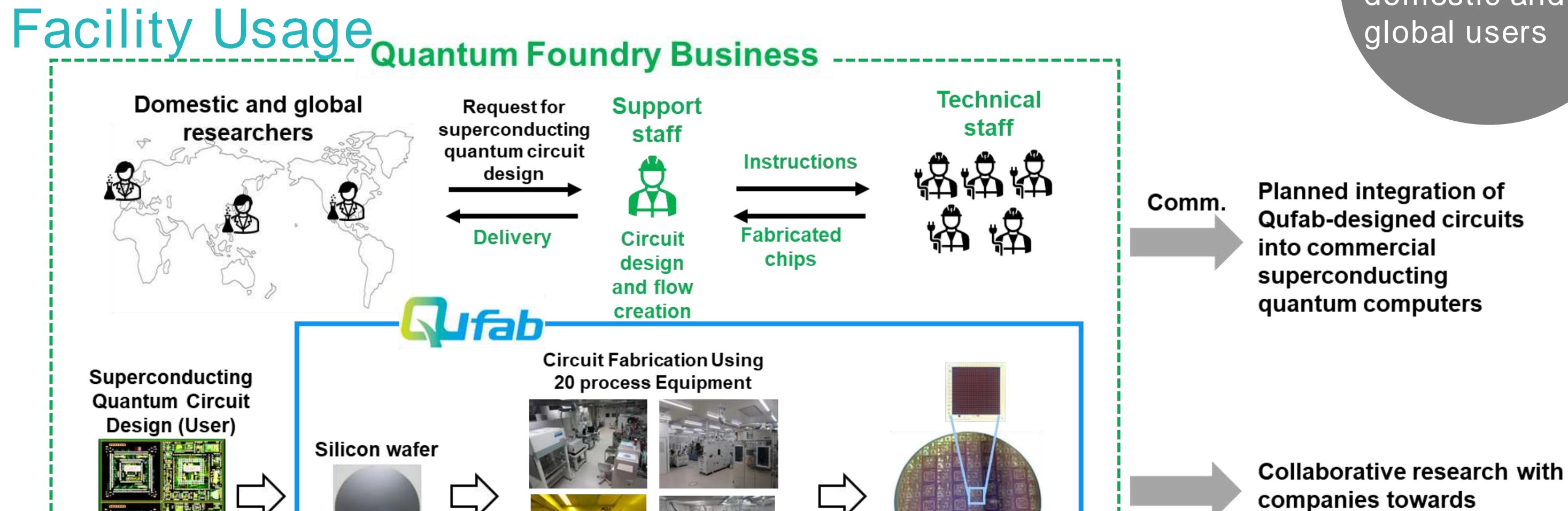
Superconducting Quantum Circuit Fabrication Facility (Qufab)

Superconducting Quantum Device and Circuit Prototyping Line

- 4-inch circuit prototyping line for superconducting quantum computer
- Superconducting Qubits, Qubits control circuit, 3D implementation
- R&D to commercial circuit prototyping

Offering foundry services to both domestic and global users

practical application



Since April 2024

■ English Support started.

Since October 2024

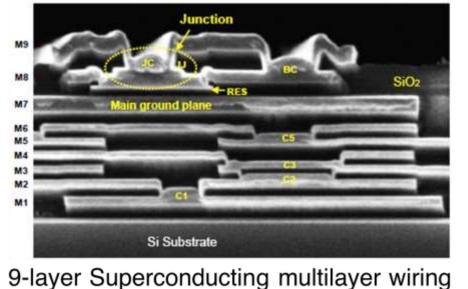
- R&D and commercial Foundry for
- Users come to Qufab to fabricate devices and circuits superconducting Qubits and Circuits using **Qufab's** process and measurement equipment.

CR and Process Equipment for Prototype Line

- Superconducting mounting equipment Clean room: 720m², Class: Mainly 1000
- 4-inch prototype line
- Main process and measurement equipment: 20 units
- Superconducting thin films: Nb, Al, Pd, Mo, TiN.
- Al JJ using oblique deposition

- i-line stepper, EB lithography, lithography down to 20 nm
- F, Cl etching system. Suitable for etching various materials.
- 3D superconducting mounting equipment

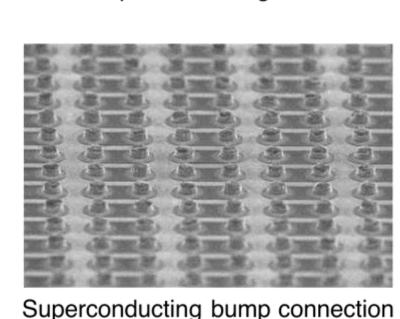
Prototype Lineup



Josephson junction fabricated by

oblique evaporation method

Superconducting TSV



- 11-layer superconducting multilayer wiring for superconducting digital circuits
- Superconducting qubits by oblique deposition
- Superconducting 3D mounting









