

Quantum Technology Roadmap

OVERALL STRATEGIES

Facilities and Services

- Establishment of Quantum Tech R&D Center
- Establishment of Connectivity Infrastructure to a remote Quantum Computer
- Establishment of a Design, Fabrication, and Characterization Facility for materials
- Expansion of existing technology to accommodate quantum communication and sensing

Human Resources

- Fortify Theoretical foundation in Quantum Mechanics and Quantum Technology
- Two-phase Capacity Building (1) Core Group, (2) Local Scientists
- Implement a call for Bold Scientists

R&D Technologies

Quantum Communication

- Quantum memory storage device & repeater
- Quantum random number generator
- Quantum network algorithm development
- Quantum cryptography
- Autonomous quantum key distribution system over metropolitan distances
- Satellites and high-altitude platform stations for long-distance quantum networks
- Quantum software and secure quantum web / internet / search engines development

Quantum Computing

- NISQ for Quantum Circuit Simulation
- Quantum processor architectures
- Error-corrected logical qubits with fault-tolerant gates
- Local quantum computer

Quantum Materials and Simulators

- Create experimental platforms for quantum simulation
- Prototype devices simulating quantum systems
- Development of validation and verification tools for quantum simulators

Quantum Control and Sensing

- Prototyping of quantum-enhanced sensors
- Development of quantum optical control

SAT Policies

- Development of protocols and verifications for quantum security
- Development of certification and standards for quantum devices and systems
- Development of industry standards for quantum metrology

R&D SOLUTIONS



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