

Point of Quantum Technology and Innovation Strategy

- **Quantum technology is an important fundamental technology** in terms of industry and security as well as brings drastic changes to economy and society.
- **To achieve “quantum technology and innovation”** as soon as possible, Japan promotes R&D, industrialization and commercialization of key technologies with taking own advantage

I Priority areas

Accelerate an achievement of innovation



- ✓ **Set “Key Technology Areas” & “Integrated Quantum Innovation Areas” for priority support and investments**

e.g. Gate-based quantum computer, Solid-state quantum sensor, Link Technologies for Quantum Communication and Cryptography, Quantum AI technology

- ✓ **Create “Technology Roadmap” & “Integrated Area Roadmap”**

II Quantum hubs

Make a face-to-face communication



- ✓ **Establish international “Quantum technology Innovation Hubs”**

e.g. Quantum software hub, Quantum inertial sensor hub

- ✓ **Hub conducts basic research, demonstration and HR development**

III International collaboration

Collaboration with US & EU for industry and security



- ✓ **Early development of multilateral/bilateral cooperative frameworks**

e.g. Japan-US-EU multilateral symposium in December 2019

- ✓ **Ensure and strengthen security trade control**

Five pillars towards an achievement of quantum technology and innovation

(1) Technology development

(2) International collaboration

(3) Industrialization and innovation

(4) Intellectual property and international standardization

(5) Human resource development