



- The International Telecommunication Union (ITU) is the United Nations specialized agency for information and communications technologies – ICTs.
- The ITU Telecommunications Sector (ITU-T) develops technical standards that ensure networks and technologies seamlessly interconnect

ITU-T has initiated 3 branches of work on "quantum" since 2018:

- **Study Group 13 – Future Networks (Q16/13 and Q6/13):** focus on network architecture aspects of QKDN
  - Five Recommendations published, 7 in draft
  - Y.3800 series - QKDN layered framework, design considerations and basic functions
- **Study Group 17 – Security (Q15/17, formerly Q4/17):** focus on security aspects of QKD/N
  - Three Recommendations published, 3 in draft
  - Y.1702 – QRNG Architecture
  - Y.1710 series – a security framework of QKDN including security threats, requirements and measures

- **Focus Group on Quantum information technology for Networks (FG-QIT4N):** pre-standardization activities to study the implications of QITs for both quantum and ICT networks

