

## **Metrology and Quantum Technologies for the Quantum Flagship**

The European Quantum Flagship programme expressed demands concerning standardisation in two principal areas: Quantum Sensing, and Quantum Communication. Specifically with respect to the development of infrastructure and procedures for traceability and calibration of quantum sensors as well as quantum key distribution and quantum random number generator technologies and systems.

This would include the characterisation and validation of relevant (quantum) properties of single-electron devices and photonic sources, single photon detectors, as well as the development of validation methodologies corresponding to QKD- and QRNG-relevant protection profiles and security targets.

Initiatives providing access to metrological infrastructure to calibrate and validate quantum sensors for projects addressing the objectives of the Strategic Research Agenda of the Quantum Flagship would be encouraged. The results would feed into ongoing efforts to develop Industrial Standards and Certification procedures at ETSI and other standards organisations.

Concerning the strategic research agenda, please see the following for more information.

[https://qt.eu/app/uploads/2018/04/170922\\_HLSC\\_Final\\_Report\\_online.pdf](https://qt.eu/app/uploads/2018/04/170922_HLSC_Final_Report_online.pdf)

<https://qt.eu/app/uploads/2018/04/QT-Roadmap-2016.pdf>

### **More information**

Please contact Rob Thew if you would like to learn more about the Quantum Flagship programme and its Strategic Research Agenda.

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