

PROJECT SNAPSHOT



AirQKD

AirQKD will address quantum-secure last-mile connectivity and build a demonstrator for a metropolitan-scale free-space optical (FSO) QKD network

15
PARTNERS



20
JOBS CREATED



PACKAGE
DESIGN

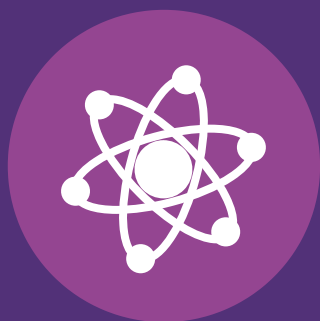


Partners:

BT, Angoka, ArQit, Bay Photonics, CSA Catapult, Duality Quantum Photonics, Fraunhofer CAP, Heriot-Watt University, NPL, Nu Quantum, OpenLightComm, University of Bristol, University of Edinburgh, University of Strathclyde, University of Warwick

CSA CATAPULT ROLE

PACKAGE DESIGN | MODELLING | MARKET ANALYSIS |
TECHNOLOGY EXPLOITATION



AirQKD brings together UK experts in standards, telecommunications, free-space, fibre and satellite QKD to create APIs and documentation for standards and security assurance-placing the UK as a global leader in the Quantum Industry

Aim: AirQKD will speed up the commercialisation of QKD applications, specifically focused on free-space. It aims to build an end-to-end fully-UK-based eco-system from components through to quantum authentication, key management and applications interfaces.

- AirQKD have created a consortium which spans the supply chain of component suppliers, system integrators, and end user businesses, and for the first time, they are all UK based
- The Catapult will design the packaging required for the single photon components aided by virtual prototype modelling tools to reduce the number of design iterations
- The Catapult will provide a detailed market analysis of the applications and use-cases available to the project identifying the major exploitation routes

PROJECT BENEFITS



The market opportunity runs into £billions, both in applications sales and savings on costly infrastructure build



In line with the national quantum technology strategy and provides a route to market for developments within the research community



Provides secure last mile connectivity in UK cities for cyber-resilient communications