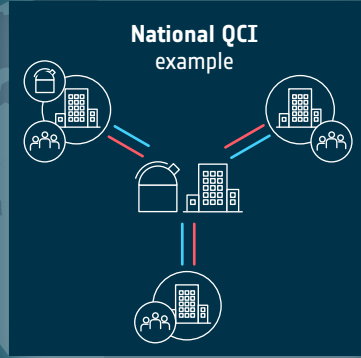
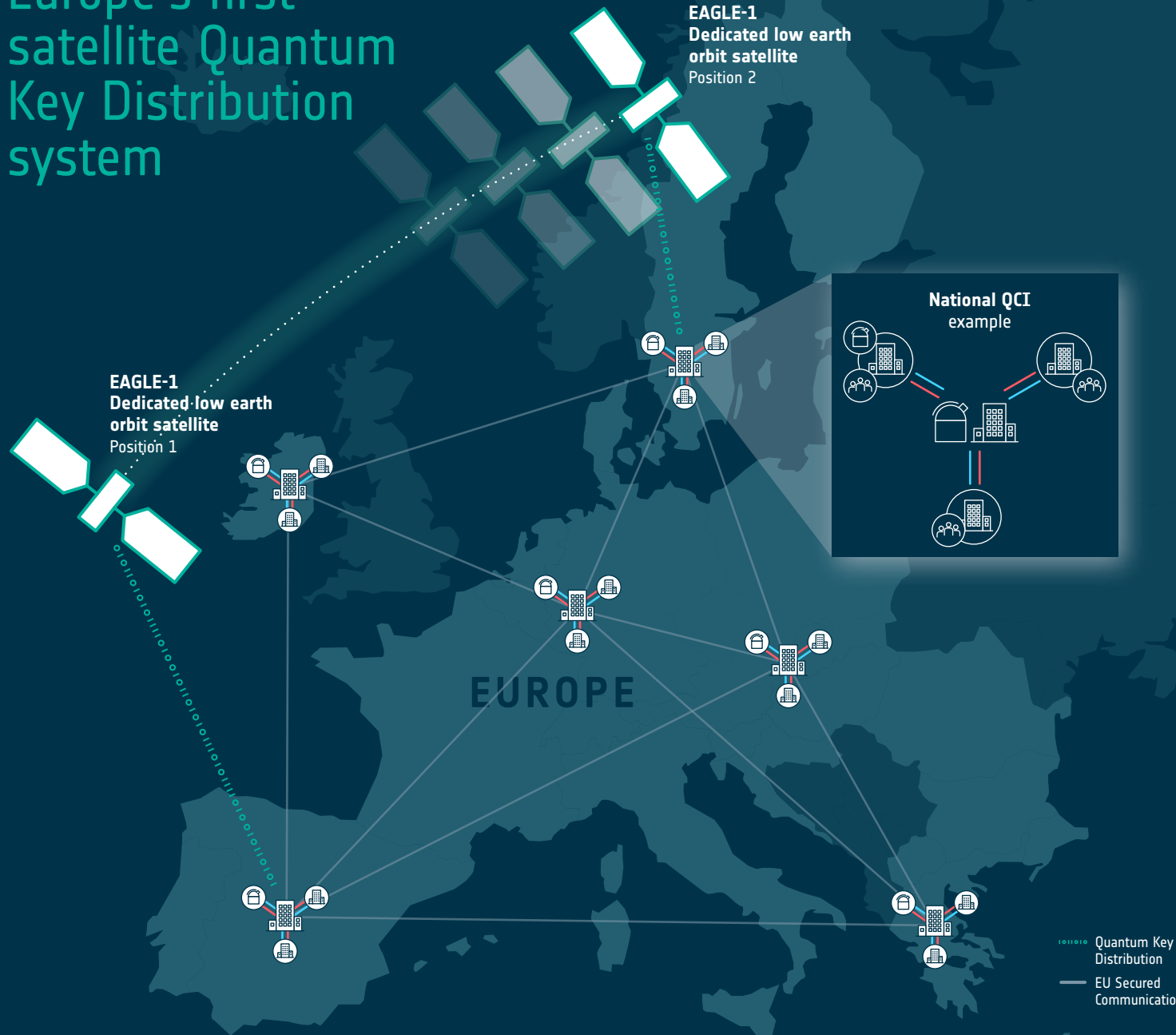


EAGLE-1: Europe's first satellite Quantum Key Distribution system

SES[^]

esa



EAGLE-1 QKD system

The EAGLE-1 project is a major technology step to a highly secure, space-based quantum key distribution (QKD) system. Comprising of satellite and ground segment, the EAGLE-1 project will provide valuable mission data for next-generation Quantum Communication Infrastructures (QCIs) and validate European sovereign technology for quantum secure communications, as well as contribute to the development of the EuroQCI programme.

The EAGLE-1 system will be designed, developed and operated by an SES-led consortium of 20 European partners, with ESA and European Commission support. It will be used to demonstrate and to validate QKD technologies from low earth orbit to the ground, paving the way for ultra-secure data transmissions within Europe.

The EAGLE-1 project is co-funded by the ESA contribution of Germany, Luxembourg, Austria, Italy, the Netherlands, Switzerland, Belgium and the Czech Republic under ARTES, as well as the European Commission through Horizon Europe.