Quantum key distribution for large-scale informationAl selfdetermintion, privaCy by-design/default and distributed processing of personal sensitive medical data. Design of the 1st use case of the quantum key distribution network for the protection of personal data. The QUANTUMACY project ambitions to shift the data processing paradigm toward QKD-enabled informational self-determination, therefore transcending blockchain, homomorphic encryption and Secure Multi Party **Computation protocols.** 









