



Extended Zero-Trust and Intelligent Security for Resilient & Quantum-Safe 6G Networks

About XTRUST-6G

XTRUST-6G is an innovative research project dedicated to enhancing the security, resilience, and trustworthiness of 6G networks. As 6G technology evolves, securing next-generation networks against cyber threats and quantum computing risks is crucial.

Key Objectives:

Develop **Zero-Trust Security** architecture

Provide **risk-based situational awareness**

Implement **AI-based zero-touch E2E** protection

Ensure **trustworthy operations** using **blockchain**

Secure the **5G+/6G supply chain**

Quantum-Safe Solutions – Future-proof encryption (QKD, PQC)

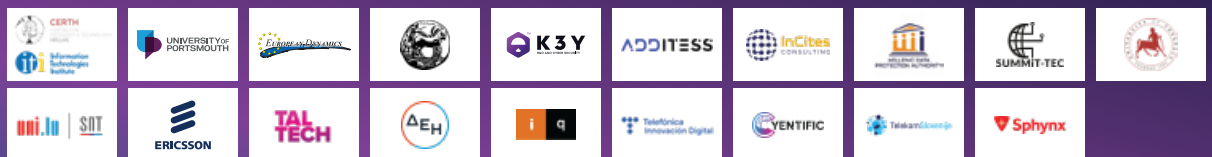
Provide **quantum-safe solutions**

Real-World Impact

XTRUST-6G will validate its innovations through five large-scale pilots in critical sectors:

- 01 **6G-enabled EV charging infrastructure resilience**
- 02 **Safeguarding 6G-connected autonomous vehicles**
- 03 **Quantum key distribution for end-to-end 6G security**
- 04 **Securing UAV-assisted 6G communications**
- 05 **Securing O-RAN & Virtualized 6G infrastructure**

Partners



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