TRUST-6G

www.xtrust-6g.eu

Securing the Future of 6G Networks

Next-Generation Connectivity Meets Advanced Security

As 6G technology evolves, ensuring its security and resilience is critical.

XTRUST-6G is a pioneering European initiative dedicated to developing zero-trust security frameworks, quantum-safe technologies, and AI-driven cybersecurity solutions for next-generation networks.

Key
FOCUS AREAS

Building a secure, resilient, and intelligent 6G network

Zero-Trust Security architecture	Protecting networks from evolving cyber threats.
Quantum-Safe Encryption	Implementing Quantum Key Distribution (QKD) and Post-Quantum Cryptography (PQC) to secure communications.
AI-Driven Cyber Threat Detection	Enhancing real-time threat intelligence and automated defense mechanisms.
Privacy-Preserving AI & ML	Ensuring ethical, fair, and sustainable security solutions.

THE
REAL-WORLD IMPACT THROUGH LARGE-SCALE PILOTS

The project will validate its solutionsthrough multiple pilot demonstrations across Europe, focusing on:

6G-Enabled Electric Vehicle Charging Infrastructure	Securing EV charging stations.
Autonomous Vehicle Security	Strengthening cybersecurity in smart transport systems.
Quantum-Secured Communications	Testing innovative encryption methods for data protection.
UAV-Assisted 6G Operations	Enhancing secure drone communications for critical applications.
Secure Virtualized 6G Networks	Strengthening cloud-based and distributed network infrastructures.

WHO
WE ARE

19 Partners
12 Countries
36-Month Project

COORDINATED BY:

CERTH – Centre for Research & Technology Hellas (Greece)

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6G SNS

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