6G-CATS

AI-Powered 6G Networks: Secure, Energy-Efficient and High-Speed End-to-End Communication supporting Sensing and Mobility

Connecting Communications, Sensing, AI, Mobility and Security



About 6G-CATS

6G-CATS is a Horizon Europe research and innovation project developing a fully integrated, modular and programmable 6G platform combining optical and wireless communications, sensing, artificial intelligence, advanced mobility and quantum-resilient security.



Secure **Intelligent** **Sustainable** **Connected**

01 | Connected Mobility

Advanced 6G connectivity, sensing and intelligent mobility services.

02 | Resilient 6G Networks

6G resilience, service continuity and automatic recovery in disaster scenarios.

03 | Quantum-Resilient Communications

Secure communications for industrial manufacturing and trustworthy residential environments supporting automation, control and operation.

Key Technology Areas

- AI-Native Networking
- Optical & Wireless Integration
- Integrated Sensing
- Energy Efficiency
- Network Resilience
- Quantum-Resilient Security
- Advanced Mobility

Project Information

Programme:	Horizon Europe / Smart Networks and Services Joint Undertaking
Topic:	HORIZON-JU-SJSN 2025 STREAM-STREAM-B 032
Duration:	36 Months
Starting Date:	September 2026
Grant Agreement:	101287162

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