6G Native extensions
for XR technologies

Project duration: 15.10.2022 to 14.10.2025
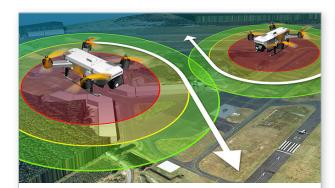
6G.NeXt

6G Native extensions for XR technologies

6G.NeXt

Project duration: 15.10.2022 to 14.10.2025

Application:
Smart drones

Objectives: Our new 6G-based TCAS calculates exact flight routes and controls drones actively by taking aerodrome traffic into account

6G NeXt infrastructure:
High speed backbone

Objectives: Research on and development of an infrastructure whose integrated network and software layers enable innovative and fast computing, as well as the dynamic distribution of complex computing tasks ("split computing")

Application:
Holographic communication

Objectives: Research and implementation of a real-time system with adaptive quality models for the presentation of first holographic one-to-one conferences

6G NeXt infrastructure:
Testbed and network coverage

Objectives: Research on requirements for 6G especially on "evolution of network topology" improving current Cellular cellular base stations and introducing non-terrestrial network covering higher airspace

Implementation of mobile testbeds based on available technology

Web: https://6gnext.de   Contact: DEUTSCHE TELEKOM AG T-Labs / Network coordinator Mandy Galkow-Schneider / E-mail: info@6gnext.de

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BMBF Industry call 6G industry projects for research into holistic systems and subtechnologies for 6th generation mobile communications - *Souverän. Digital. Vernetzt.*

The German project consortium consists of nine partners from industry and science:

Deutsche Telekom AG / T-Labs
Coordination of the consortium and research and development of innovative approaches for intelligent and fast technologies for the expansion of the network for future, new functionalities

Technische Universität Ilmenau
Optimization of the QoS of both applications as well as evaluation and prediction of the QoE for the HOLOCOM application, based on extracted key performance indicators

Deutsches Forschungszentrum für Künstliche Intelligenz
Provision of the mobile testbed for end-to-end testing of the two applications

Volucap GmbH
Volumetric data acquisition and transmission to unlock new applications for the next generation of mobile networks

Fraunhofer-Institut für Offene Kommunikationssysteme FOKUS
Contribution of expertise, tools and testbeds to the research and development of the 6G NeXt infrastructure and feasibility evaluation of the HOLOCOM application

Weitere und assoziierte Partner:

Logic Way GmbH
Setting up a mobile 6G network testbed and development of the communication module (edge device) and the associated software component stack

NVIDIA
Contribute to the project by sharing knowledge and expertise on technical matters related to use cases

Technische Hochschule Wildau
Research and development of the application of Smart Drones

Flugplatzgesellschaft Schönhagen mbH
Professional support of the project as well as provision of the test area for safety-related and aviation law-related tests

Technische Universität / Einstein Center
Research and development of a scalable edge-cloud software platform and support for the smart drones use case

IDRF
Interessengemeinschaft der regionalen Flugplätze e.V.
Professional support of the project as an associated partner

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