



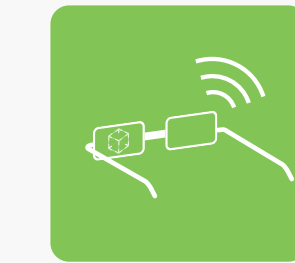
RESILIENT INTERACTIVE APPLICATIONS
THROUGH HYPER DIVERSITY IN ENERGY
EFFICIENT RADIOWEAVES TECHNOLOGY



The **REINDEER** project will address fundamental aspects of **6G** multi-antenna technology, by developing a new smart connect-compute platform based on **RadioWeaves technology**:

- wireless access infrastructure consisting of a fabric of distributed radio, computing, and storage resources which functions as a massive, distributed antenna array
- able to blend physical and virtual reality
- scalable capacity, perceived zero latency and zero outage
- interacting with an extremely high number of embedded devices

REINDEER - Platform



for interactive devices



imperceptible latency



power signals for energy neutral devices

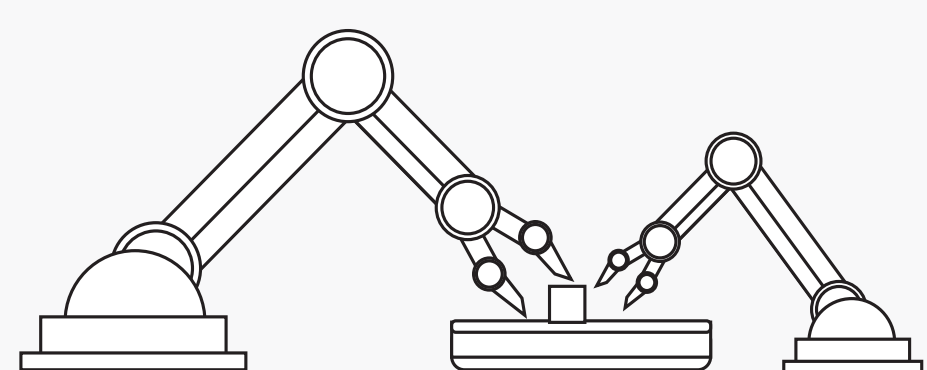


scalable network infrastructure

About

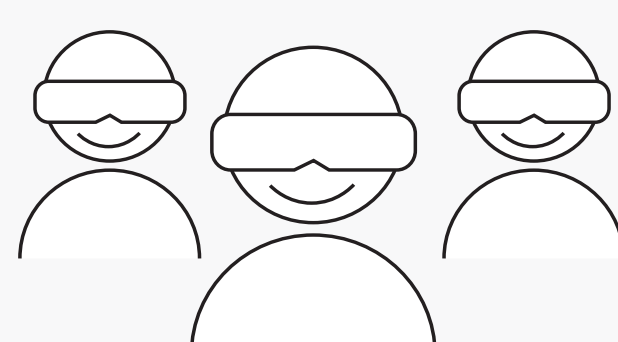
01 Analyse and specify technical requirements for future interactive applications

Robotized factories, logistics, warehouses



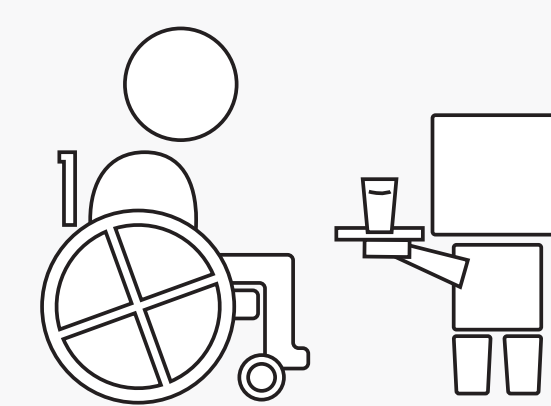
- real space information
- imperceptible latency, zero-outage
- energy neutral devices

Mixed-reality entertainment for crowds



- high capacity network
- high number of individual HD video services for crowds

Natural Human Machine Interaction



- reliability
- interactive applications

02 Develop RadioWeaves connectivity infrastructure:

- energy-efficient, smart, scalable and secure
- including topologies for zero-outage, efficient and secure deployment
- data & power signals

03 Develop scalable protocols & algorithms for :

- cell-free operation & signal processing solutions for resilient interactive applications
- cooperation with energy-neutral devices
- secure connectivity infrastructure
- topologies for zero-outage, efficient and secure deployment

04 Experimentally validate and demonstrate the RadioWeaves smart connectivity platform and the REINDEER algorithms for robust applications and interaction with energy-neutral devices

05 Share the REINDEER results with a broad group of stakeholders and the scientific community, promote technological vision in pre-standardization activities, ensure interoperability

Objectives

