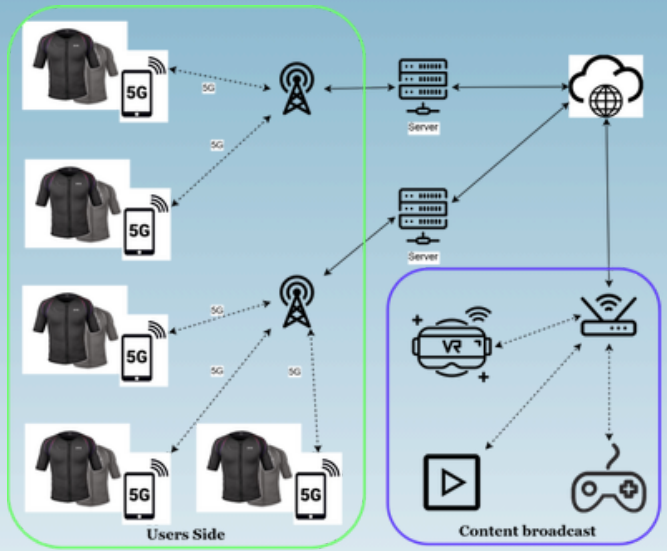
Use Case 1: Internet of Senses / Haptic sensing

Through high-speed capabilities and low latency features of 5G, a nearly instantaneous sensory experience for users through the OWO haptic suit, allowing for a true sense of presence and realism.

Media



The media content integrates the API, allowing it to communicate to the Network Application to link with the OWOSkin through 5G and send sensations to one or many users at once.

THE LARGE SCALE TRIAL

March 2025 & February 2026

University of Malaga

Students

Two LST were conducted in Málaga to evaluate the performance of the OWO haptic system over a 5G-enabled network. In the first trial (March 2025), university students wore the OWO vest and experienced real-time haptic feedback triggered by events in a VR application, with all results aligning with the expected objectives. In the second trial (February 2026), similar participants were used to validate system improvements, particularly reduced latency and enhanced responsiveness, while also collecting additional performance data. Both trials provided consent and reported positive, consistent experiences with the system.

THE TRIAL OBJECTIVE(S)

a. Network Application connection capacity
b. Latency from sensation generation to stimuli perception

fidal field trials beyond 5G
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Key Value Indicators (KVIs) in Use Case 1

ENERGY EFFICIENCY

Reduced energy use in use case configuration and impact

INCLUSIVITY

Use-cases reflect diversity of local communities they should benefit

TRUSTWORTHY

- Create dependability of service for potential user
- Able to perform the session successfully, no matter their location

CULTURAL CONNECTION

Building and maintaining a sense of community

DIGITAL INCLUSIVITY

Improve ability of all to participate in and benefit from a service.

FLEXIBILITY

Optimal Resouce Allocation

Privacy

Privacy preserving in ways that support confidentiality of the person (communication, movements, interactions, etc.) as needed for users

WASTE MANAGEMENT

Increases lifespan of products and services

UC1 Partners

OWO

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