

AR SOCCER AVATARS

DEUTSCHE TELEKOM DRIVES 5G FOR INNOVATIVE AND DYNAMIC AR EXPERIENCES



5G goes beyond high-speed mobile connectivity – it also delivers a much higher connection density and ultra-low latencies. Combining 5G with edge computing enables new, innovative and dynamic AR game experiences. The technological capabilities provide stable low-latency connectivity, and the AI algorithms run on the edge cloud. This allows synchronized real-time movement control of an avatar and of player positioning – interactions with augmented elements in a real environment give the user an immersive experience. Deutsche Telekom developed this innovative AR solution with immersiv.io – one of the mixed reality ecosystem players that Deutsche Telekom partners and co-creates with.

KEY FACTS:

- Complex AI algorithms on the edge cloud enable real-time detection of body movement
- Ultra-low latency connectivity can be achieved via edge cloud
- Users enjoy a hands-free experience and control virtual objects through their movements
- Players' body movements are replicated by 3D avatars of FC Bayern (FCB) Munich football stars
- Freed-up users have the chance to virtually become an avatar of an FCB sports star
- Dynamic interactions with virtual avatars give users an immersive experience



LIFE IS FOR SHARING.



in cooperation with:



immersiv.io

Deutsche Telekom is co-creating with partners of the mixed reality ecosystem to drive innovation based on 5G capabilities. In its 5G mobile network, Deutsche Telekom can achieve higher data rates and connection density and lower latencies. This allows real-time synchronization and movement control. 5G brings additional capabilities such as edge computing to enhance the functionality of Deutsche Telekom networks and contribute to a better augmented reality multiplayer experience. This gives users a truly immersive experience as they move through the physical world while interacting with or steering virtual elements.

Deutsche Telekom drives this innovation to meet application scenarios related to AR gaming experiences and to address developer and hardware requirements in the mixed reality ecosystem.

In partnership with immersiv.io, Deutsche Telekom realizes a hands-free experience based on avatars of FC Bayern Munich football players. Freed-up players control the game by moving around and steering the movements of their avatars in real time. The 3D avatars of FCB players replicate the players' body movements. This shows how the physical and virtual worlds are merging and how interactions with technology will become more and more natural.

In the future, wherever Deutsche Telekom rolls out 5G and edge computing infrastructure, it will be possible to have real-time AR experiences and interact with virtual avatars of people.

CONTACT PERSON:

Tiana Trumpa
 E-mail: tiana.trumpa@telekom.de
www.telekom.com

ADDRESS:

Deutsche Telekom AG
 Friedrich-Ebert-Allee 140
 53113 Bonn, Germany



LIFE IS FOR SHARING.