

AR AIR HOCKEY

DEUTSCHE TELEKOM DRIVES 5G FOR INNOVATIVE AND DYNAMIC AR EXPERIENCES



In the future, the physical and virtual worlds will merge more and more through 5G and through devices such as smartphones and mixed reality glasses. 5G goes beyond high-speed mobile connectivity by also delivering a much higher connection density and delivering ultra-low latencies. This allows real-time synchronization, positioning, and interactions with augmented reality elements in a real environment and gives the user an immersive experience. Deutsche Telekom partners and co-creates with mixed reality ecosystem players on the development of innovative AR solutions based on 5G and edge computing.

KEY FACTS:

- 5G will bridge the physical and virtual worlds
- Edge cloud can achieve ultra-low latency connectivity
- Low latency enables real-time synchronization of real and virtual elements
- Users can enjoy a hands-free experience through mixed reality glasses
- Freed-up users can interact with the virtual world by simply moving around
- Dynamic interactions with virtual objects give users an immersive experience



LIFE IS FOR SHARING.



in cooperation with:



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. 5G brings additional capabilities such as edge computing to enhance the functionality of the Deutsche Telekom networks and contribute to a better augmented reality multiplayer experience thanks to real-time synchronization. This allows a truly immersive experience for users moving through the physical world while interacting with virtual elements.

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

In partnership with forwARdgame, MobileedgeX, and nreal, Deutsche Telekom realizes a hands-free multiplayer experience on mixed reality glasses. Freed-up players enjoy an AR air hockey game on nreal mixed reality glasses and control the game by moving around. A shared and stable AR environment, physical interaction with AR, and live synchronization of users' actions are key elements in an immersive experience. In the future, wherever Deutsche Telekom rolls out 5G and edge computing infrastructure, players can have a multiuser, shared AR experience.

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.