

5G Zero-latency translation

Simultaneous translation in the first 5G hotel in Spain, thanks to the low latency of Telefónica's 5G and Edge Computing.

Objective: To provide a software-based simultaneous translation solution for more than 80 languages, which can be easily used through a mobile app and 5G network capabilities, and works with sufficient immediacy to have a face-to-face conversation.

The pilot has been tested at the Hotel Meliá Serrano in Madrid, the first hotel in Spain with indoor dedicated 5G coverage in collaboration with Ericsson.

Description: A mobile application was developed by the Australian startup Lingmo, which allowed the user to speak in their own language and generate a very low latency audio in the target language selected by the user, for face-to-face conversations with each person speaking in a different language.

The low latency of 5G and Edge Computing ensures that the translation is done with sufficient immediacy to be able to have a fluid conversation.

The audio collected on the cell phone is processed and sent to a software translation server located on the operator's Edge Computing servers, where it interprets the content and generates an audio in the target language.

In addition, this software uses artificial intelligence that allows real-time learning and translated audios with a more human pronunciation.

