

# 5G private network

**Objective:** Telefónica will deploy, in collaboration with Ericsson, a private 5G network in the El Corte Inglés logistic centre at Valdemoro with the aim of making the concept of Industry 4.0 a reality applied to the Logistics sector and to optimize the customer package classification and picking processes.

**Description:** The first use case consists of optimizing the logistic forklifts movements in their picking and storing routes. The real-time optimization will be done from the operator's Edge Computing (a nearby computing within the operator's network to achieve low latency). Orders to the forklifts will be sent using 5G communications on the 700 MHz frequency, which is best suited to achieve high coverage penetration in complex environments with dozens of high shelves full of diverse goods. It is expected that this optimization would achieve about 20% of time improvement.

The second use case corresponds to a scenario of high interest in the world of Industry 4.0, which is the elimination of physical wiring in communications, in this case between the packed goods classifier machines and the software that controls them. For these wireless communications, 5G communications will be deployed with coverage in the millimetre wave band (26 GHz), which provides the highest bandwidths and lowest latencies in a very demanding scenario with very low latency requirements.

[Press release](#)

