Immersive cycling experience with Pedro Delgado

Objective: Demonstrator for immersive experience with real-time video, applied to cycling.

Description: Taking advantage of the passage of the Vuelta Ciclista a España 2018 through Talavera de la Reina, a proof of concept was developed to demonstrate the low latency of the pre5G network deployed in that city, within the framework of Technological Cities. The test involved the collaboration of Pedro Delgado, former cyclist and winner of the Tour de France in 1988, who was able to complete a cycling circuit "blind", guided only by the video that reached him in real time through the network.

- The challenge was to ride a bike through an immersive experience:

  Pedro Delgado wore VR glasses (Goovis Media Goggles) that did not allow him to see directly, connected directly to the mobile network.

- A camera was attached to his helmet to capture real-time video, which was sent to Edge Computing deployed for the event by Ericsson.

- The video stream was sent back to the VR goggles, where it was played back as a 180° panoramic video. In this way, Pedro Delgado was able to move around the circuit.

The low latency achieved in the whole process of capturing the video and sending it back to the glasses allowed Pedro Delgado to keep his balance on the bike and move forward over the obstacles of the circuit, just as if he had nothing obstructing his vision.

Press release

Additional References

Pre5G Edge Computing Low Latency

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