

Press Release

Telefónica implements a service for emergencies over 5G Network Slicing in 112 Extremadura

- The innovation project is based on new Telefónica technologies such as Push To Talk over cloud computing in addition to 5G Network Slicing.
- Emergency communications can make use of Telefónica's commercial 5G network with dedicated reserved resources by relying on 5G Network Slicing.
- This pioneering initiative in Europe will allow 112 Extremadura a coordinated, real-time communication enriched with video, location and images.

Madrid, 19 December 2024. Telefónica, in collaboration with 112 Extremadura, has launched a pilot service based on new technologies to speed up, facilitate and make emergency interventions more reliable.

Thanks to the reservation of resources on Telefónica's 5G+ network with Network Slicing technology and a walkie talkie or Push To Talk solution in the cloud, 112 Extremadura's emergency units can exchange audio and video as well as location during their rescue tasks in order to guarantee a coordinated, fluid, prioritized and real-time communication.

Thus, the solution developed by Telefónica enriches traditional walkie talkie communications (voice only and limited groups) with video calls, the exchange of secure messages or video and the visualization of the location or status of the different people and units that make up the emergency team, among other possibilities, which facilitates more effective and agile emergency management and resolution. All of this is monitored from a control center and deployed as an end-to-end solution.

The ruggedized 5G+ terminals that the rescue teams will carry complement this solution by guaranteeing its use in adverse conditions with extreme temperatures, as well as allowing immersion in water, use with gloves or anchoring to different parts of the body.

This innovative combination of the latest technologies to put them at the service of 112 Extremadura is pioneer in Europe, paving the way towards the emergency communications of the future. Specifically, Network Slicing has been used, one of the features of 5G+ that allows a slice (portion) of network resource to be dedicated to emergency services so that the network can be used even in times of possible congestion, in urban and rural areas. In addition, a Telefónica Push To Talk or walkie talkie solution has been deployed over the cloud, which facilitates the enrichment of the solution with video, images or location among other functionalities.

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Manuel Velardo, director of Telefónica in Extremadura, said: 'This project is a clear example of how technology and innovation are put at the service of people with the aim of helping to facilitate and speed up rescue operations'.

For his part, Abel Bautista, Minister of Presidency, Interior and Social Dialogue of the Regional Government of Extremadura, said: 'The Regional Government of Extremadura will continue to work tirelessly to prevent emergency situations and minimize the impact of adverse meteorological phenomena'.

This pioneering project, part of the Recovery, Transformation and Resilience Plan -funded by the European Union through Next Generation EU funds- demonstrates the potential of 5G to transform emergency services, demonstrating how advanced technology can optimize the management of critical situations through faster and more effective responses.