



PRESS RELEASE

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NOS' 5G WILL BE MAKING BEACHES SAFER

NOS DEMONSTRATES 5G APPLIED TO THE SURVEILLANCE OF BEACHES IN MATOSINHOS

As part of the celebration of World Oceans day (that takes place tomorrow), NOS will be demonstrating in Matosinhos under real life conditions the potential of 5th generation mobile communications, applied to the surveillance of beaches and coastal areas via high definition 4K 360° video transmission.

NOS brings the potential of 5G technology to the north of the country, showing the difference that this new generation of mobile communications represents in terms of emergency response time, specifically for video surveillance and lifesaving in beach areas.

The simulation demonstrates the difference that the new generation of mobile communications brings in terms of response time (latency) and the high band width (speed) in supporting high definition 4K 360° video communication for the security and lifeguard forces. With the 5G solution demonstrated today, any organization responsible for safety on the beaches will have an increased ability to anticipate, forecast and act in situations of danger or emergency.

The demonstration took place in Matosinhos, the first Free Technology Zone (ZLT) in Portugal with the collaboration of the CEiiA – Engineering and Research Center, NOS' partner for the development and testing of technological solutions, based on 5th generation mobile phones.

After the first demonstration in May of 5G potential, applied to emergency and rescue autonomous vehicles, NOS is keeping its focus on applying the technology to the protection and safety of the community, giving a glimpse of what the response capability and autonomy of the rescue and lifeguard services in coastal areas will be in the future.

The event was attended by Ramalho Eanes, Board director of NOS, José Rui Felizardo, President of the CEiiA and Luisa Salgueiro, Mayor of Matosinhos City Council.

According to Manuel Ramalho Eanes, Board director of NOS, “the arrival of 5G technology will benefit the whole of society, from business to government entities and ordinary citizens. The application of this technology demonstrated today is just an example of the potential of a technology that in time will make towns and cities super smart, safer more efficient and closer to people.”

To make the live 5G demonstrations, NOS requested ANACOM to provide the 3.5 GHz spectrum for the required mobile communications.





NOS' 5G simulation in Matosinhos

The simulation shows how organizations responsible for security on beaches will have an increased ability to anticipate, forecast and act in situations of danger or emergency.

To do this, a remote controlled drone was used, which records high definition video and uses 5G technology to communicate with the control room. The drone keeps watch on a beach where a surfer is feeling unwell, and the city council's Bathing Rescue System is immediately activated and the necessary assistance provided.

This was done from the control room of the Matosinhos City Council (in this case simulated from the CEiiA building) and, with the help of virtual reality goggles showing 360° pictures filmed by the drone, the situation of danger was identified and the rescue alarm system triggered. In the control room, besides the pictures provided by the drone, it was possible to follow the "rescue" procedure via an additional 360° camera, set up in the busiest area of the beach.

This means that in the near future and with the help of 5G, which involves machines talking to each other in real time, and, in addition, using video analysis techniques, it will not be necessary to wait so long for help, while at the same time improving the coordination between safety and rescue services.

5G will make cities smarter for the benefit of citizens.

About NOS

NOS is the biggest communications and entertainment group in Portugal. It offers latest generation fixed and mobile phone, television, Internet, voice and data solutions for all market segments. It is leader in Pay TV, new generation broad band services and in cinema distribution.

In the business segment, it has positioned itself as a sustainable alternative in the Corporate and Mass Business segments, offering a broad portfolio of products and services with tailor made solutions for each sector and for businesses of different sizes, complementing its offer with ICT and Cloud services. And now, on the path towards 5G, NOS is making cities smarter.

NOS is part of the main Portuguese stock exchange index (PSI-20), and has more than 4.8 million mobile phone, 1.6 million television, 1.8 million fixed telephone and 1.4 million fixed broad band Internet customers.

For more information, go to: <http://www.nos.pt/institucional>