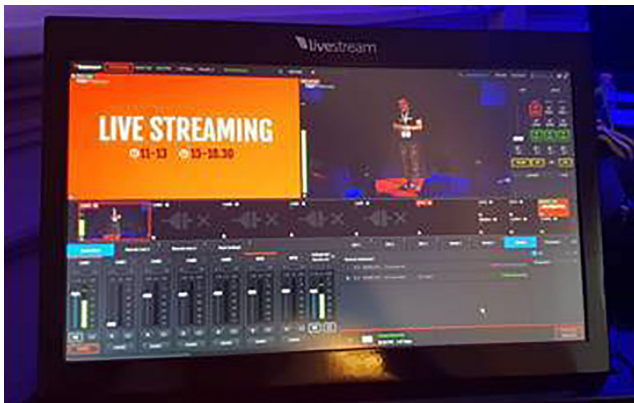# Wireless connectivity for special events: TEDx in Pescara Broadcasts with Cambium Networks

Overview

EVENTS SUCH AS THE TEDX CONFERENCES OFTEN REQUIRE SEVERAL LOCATIONS to be connected simultaneously, streaming speeches to audiences around the world in real time.

This was the case for TEDx in Pescara, Italy, on April 20th: the event was split between two sites – the historic Chiola Castle with an audience of about 200 people amongst three large halls, and a theater building hosting another 500 people. Coverage needed to be guaranteed for medium density in the halls at the castle, and high density for the theater.
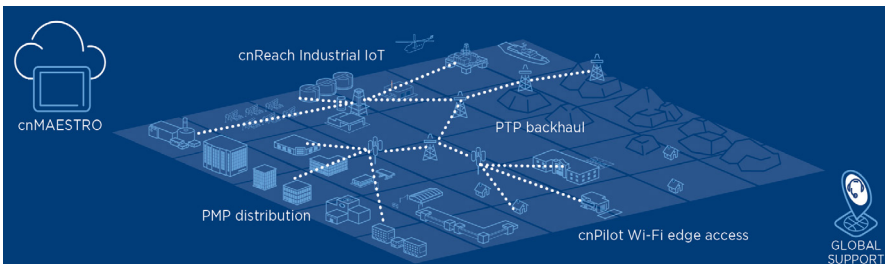

Challenge

THE DEPLOYMENT HAD COMPLEXITIES. The castle building had ADSL connectivity at an inadequate level and insufficient Wi-Fi coverage, with only 4 or 5 access points to cover several floors of the historic building. The second location, on the other hand, had no connectivity whatsoever.

Solution

MICSO, A WISP THAT SERVES EIGHT ITALIAN REGIONS, was brought on board for the project. They began with an analysis of the locations, as well as the design and installation of the infrastructure needed, which took less than a week.

An estimated 10 Mbps bandwidth would need to be guaranteed for streaming in both locations – ensuring the capability of YouTube uploading on one end and the download on the other. The traffic created by journalists and audience members sharing on social media in real time was also taken into consideration, so the throughput target became a minimum of 50 Mbps.

Cambium Networks products comprised the infrastructure, ensuring maximum connection stability and interference prevention with "smart" beamforming technology. The network was managed with cnMaestro™ cloud-based controller, which kept more than 600 people connected, without slowdowns or interruption at either site, for the duration of the event.

The installation was disassembled after the event, but the network's performance inspired Chiola Castle management to consider an overhaul of the building's Wi-Fi coverage with Cambium Networks solutions.