

# Vodafone Rapidly Deploys Broadband Connectivity for Flooding Relief

## SITUATION

Heavy spring rains across most of Central Europe's countries caused flooding in major river valleys. Hungary was among the hardest hit by this disaster. Maintaining connectivity during such a disaster is critical as families support each other and relief efforts need to be closely coordinated. Vodafone's network was challenged, and they needed a backhaul solution to provide backup connectivity for their voice and data cellular traffic.

Their primary licensed microwave technology was working, but they had lost one of the intermediate sites in the network. They needed to bypass this damaged aggregation point – and they needed to do it quickly.

## SOLUTION

Time was vitally important to Vodafone, so they chose to use the license-exempt frequencies to bypass the regulatory requirements associated with using licensed solutions and have a replacement link operational within hours. They chose the Cambium Networks Point-to-Point (PTP) 500 backhaul link for the following reasons:

- **Rapid deployment in hours** – enabling broadband connectivity when and where it is needed
- **Unlicensed 5.8 GHz** frequency
- **All outdoor equipment** deployment requiring less cabling
- **High performance** to perform reliably in virtually any path conditions, including Non-Line-of-Sight (NLOS) and long-range Line-of-Sight (LOS), over water and desert terrain, and even in severe weather conditions.



- **Multiple-Input Multiple-Output (MIMO)** – the only backhaul products with MIMO technology.
- **Dynamic Spectrum Optimization (DSO™)** resists interference and signal fading.
- **Adaptive Modulation** to provide the maximum throughput with highest link quality.
- **High Spectral Efficiency** to provide high throughput with minimal spectrum usage.

## RESULT

Cambium Networks PTP 500 equipment was deployed to both tower locations and fully cabled and operational in about four hours.

*“We needed reliable backup connectivity for our voice and data cellular network. The PTP 500 offered an excellent solution for us, and was installed in hours. Cambium Networks provided communications at the time people needed it most and transported vital data for emergency relief agencies as well as local residents.”*

**Csaba Almási, Transmission Senior Manager,  
Vodafone**