



Success Story

Bar-Ilan University Chooses Siklu's 5G mmWave for Multi-Gigabit Campus Connectivity

Background

The Israeli Bar-Ilan Center for Smart Cities is an ecosystem for Smart City development. Scientists, entrepreneurs, municipalities, solution providers and citizens work together to better understand a city's needs and find appropriate solutions. The university campus acts as a living lab, where researchers and solution providers can test their ideas and solutions and get feedback from the end users, i.e., citizens.

The Center, which cooperates with high-tech companies, 20 local Israeli authorities and a further dozen cities worldwide, recently hosted Israel's Minister of Communications, Yoaz Handel, who requested a demonstration of the alternatives for deploying an innovative network on campus, such as those implemented by smart cities in Israel and abroad.

Challenge

In the course of the minister's visit a discussion was also held on the present need to supply quick communication solutions for setting up open-air lecture areas around the campus according to COVID-19 restrictions. The existing campus Wi-Fi network was unable to deliver the required speed and quality, and with fiber access being limited, additional trenching would have been disruptive, cost prohibitive and too time consuming.

Solution

The chosen solution is based on mmWave wireless technology, enabling swift installation without compromising on the speed and reliability typical of fiber optic connections. The new wireless network, designed and deployed by Siklu within a week, comprises nine 5G macro sites providing mesh connectivity between the university buildings as well as coverage for the open-air lecture areas.

Results

The result is a practical application of a "green" initiative led by the university, taken while adhering to the restrictions imposed by the corona virus pandemic. The innovative network, developed and manufactured in Israel, provides the Bar-Ilan campus with wireless flexibility and fiber-like quality that enables connection speed ranging from 1Gbps to 10Gbps. It also brings the campus a step closer to becoming a smart campus.