

RadioLED Network Technology

Q: The city already has 4G networks and Telecom providers are upgrading to 5G. Why does the city need a new network? What are the advantages of a RadioLED network?

A: RadioLED technology and approach is different to the traditional Telecom. The traditional Telecom will need to increase (densify) their hardware coverage in the city to provide more services and keep up with demand. This means many more towers, access points and fiber in the City. As Telecom don't share hardware/infrastructure, each Telecom company will increase their infrastructure.

With RadioLED technology, the city has an alternative that: (1) requires less fiber, (2) does not require towers or large access points, (3) is an open access network and can be shared, (4) offers more functionalities because it is more advanced technology, (5) is built on open source which can accelerate innovation by local companies, (6) is based on lower frequency ranges which are already used in your homes (The traditional Telecom plan to use higher frequencies to provide 5G). The RadioLED technology and approach brings benefits and opportunities to the City, residents and business.

Q: What are the small boxes/housing visible on the street poles?

A: The small boxes (80x80mm) are the housing for the antenna device of the network.

Q: Will the RadioLED network cause interference and disruption of home networks and Wifi function?

A: No. RadioLED's patented technology is designed to avoid interference. The network automatically adapts to its environment to ensure there is no interference with other signals/equipment.

Q: Is RadioLED Chinese technology?

A: No. RadioLED is European technology and was developed in Austria. Devices are produced in Europe.

Q: Will the RadioLED network enable 5G?

A: It is important for people to understand what 5G means. 5G = 5th Generation of Communication Technology and functionalities, with more/better possibilities than 4G or LTE. There are different ways of achieving this. One way is through hardware and use of higher radio frequencies/spectrum. This is the general approach by the Telecom companies.

Another way is through use of patented intelligent software and hardware, while staying within the existing range of frequencies/spectrum. This is the approach of RadioLED. So, the RadioLED network will enable 5th Generation functionalities through software and improved electronic hardware. While the traditional Telecom will enable 5th Generation communication through higher radio frequencies/spectrum.

Q: There is concern that RadioLED network will cause higher EMF. Is this correct?

A: This is not correct. It is quite the opposite. The largest EMF levels come from personal mobile phone/devices, because these mobile devices try to connect to mobile towers over large distances. The larger the distance between the mobile phone and the transmission radio, the higher the EMF radiated by the mobile device. The shorter the distance between the mobile phone and the transmission radio, the lower the EMF radiated by the mobile device. Therefore, with a RadioLED network the EMF radiation of connected devices will be lower than before.