

Construction of 5G communication tower base station in Marseille





Overview

How can a 5G cellular network be developed?

The developed model can facilitate the rollout of 5G technology. Due to the high propagation loss and blockage-sensitive characteristics of millimeter waves (mmWaves), constructing fifth-generation (5G) cellular networks involves deploying ultra-dense base stations (BSs) to achieve satisfactory communication service coverage.

What is 5G communication technology?

5G communication technology uses a high-frequency millimeter wave (mmWave) to carry huge amounts of data over a short distance (Bai & Heath, 2015).

Should 5G base stations be tripled?

To cover the same area as traditional cellular networks (2G, 3G, and 4G), the number of 5G base stations (BSs) could be tripled (Wang et al., 2014). Furthermore, Ge, Tu, Mao, Wang, and Han, (2016) suggested that to achieve seamless coverage services, the density of 5G BSs would reach 40-50 BSs/km².

What is a 5G NSA deployment?

The first rollout of 5G networks usually involves NSA deployments that can help telecom operators maximize the use of installed 4G BSs, be the first to launch 5G, and gain technology and market leadership (Ekstrom, 2019).



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