

The cost of communicating with a base station

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Why are base stations important in cellular communication?

Base stations are important in the cellular communication as it facilitate seamless communication between mobile devices and the network communication. The demand for efficient data transmission are increased as we are advancing towards new technologies such as 5G and other data intensive applications.

How to estimate the cost of building and operating a cellular network?

A simple method for estimating the costs of building and operating a cellular mobile network is proposed. Using the empirical data from a third generation mobile system (WCDMA), it is shown that the cost is driven by different factors depending on the characteristics of the base stations deployed.

What is a base station?

Network Coverage: Base stations cover a given part of the earth. Various base stations are set up in such a way that forms a network to encompass all areas of the city, region or even an entire country.

Why do we need a base station?

Technological advancements: The New technologies result in evolved base stations that support upgrades and enhancements such as 4G,5G and beyond,its providing faster speeds with better bandwidth. Emergency services: They provide access to emergency services,so that in case of emergency,people can call through their mobile phones.

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