

Typical Cases in the Communications Industry Rural Base Stations





Overview

How does topography affect wireless coverage in rural areas?

Topography and foliage have a major impact on the attainable coverage and capacity of wireless networks in rural areas. Even small hills can create shadow regions with severe negative effects on coverage.

How does Ericsson work in rural areas?

Ericsson has developed a cost-effective approach to deploying terrestrial networks in rural areas with population densities below 50 people per square kilometer that involves mounting advanced 5G radios on high towers to expand the service area per site .

Will terrestrial networks remain a cornerstone of rural digitalization?

It is therefore reasonable to assume that terrestrial networks will remain important cornerstones of the rural digitalization journey in the years ahead.

Can satellites serve rural areas?

While non-terrestrial networks, where satellites deliver blanket coverage over large areas, have been proposed as a solution to serve rural areas, the served capacity per area falls an order of magnitude short of what terrestrial networks are able to achieve .



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