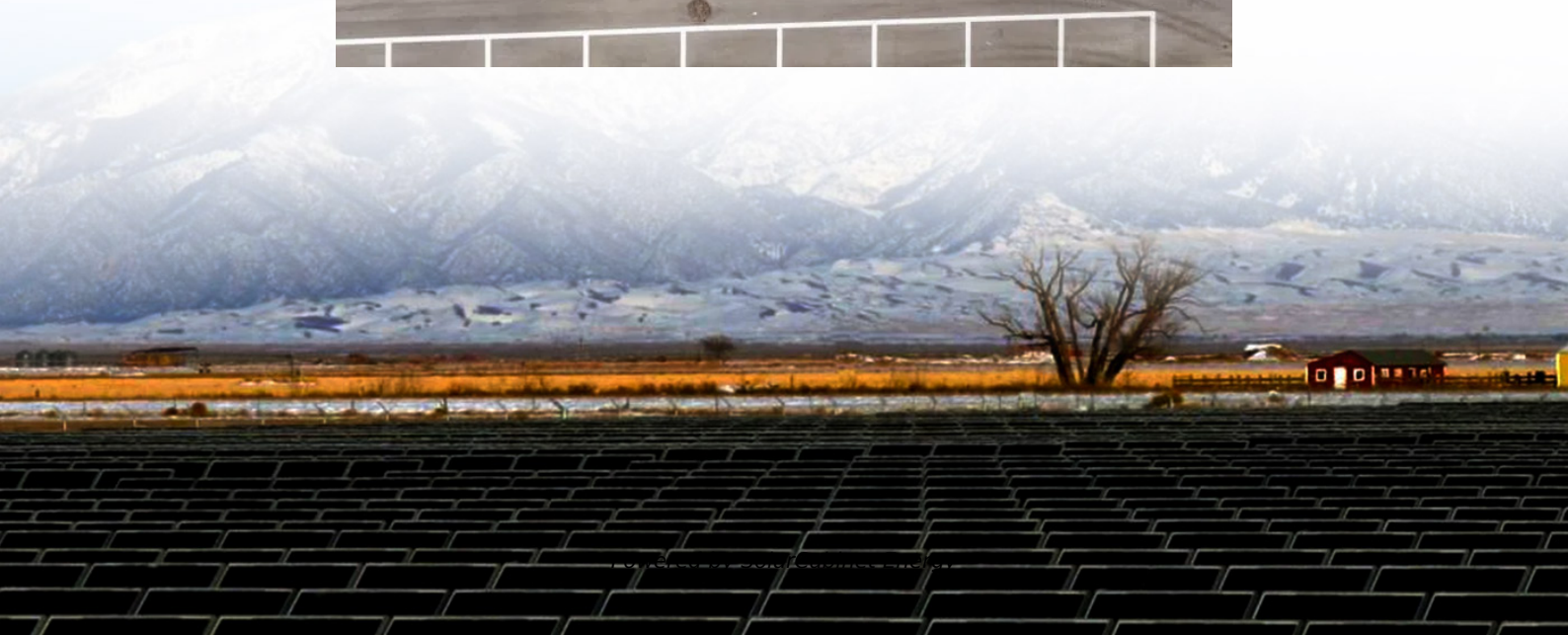


Indonesia 5G communication base stations are far away





Overview

How many 5G base stations are there in Indonesia?

Most 5G deployments are still confined to urban centers, leaving large parts of Indonesia's vast geography underserved. For example, Telkomsel has launched only 2,200 5G base stations in 56 cities, out of a total footprint of more than 240,000 base stations. Despite the focus on 5G, Indonesia remains a 4G-first market.

Does Indonesia have a 5G network?

Since its rollout in 2021, Indonesia currently ranks 9th out of 10 ASEAN countries in mobile and fixed broadband performance. The country's 5G spectrum utilisation remains limited to 1.8GHz/2.1GHz/2.3GHz while cellular operators are waiting for the government to release additional spectrums in the 700MHz, 2.6GHz, and 3.5GHz bands.

Where is Telkomsel launching 4G & 5G mobile services in Indonesia?

Indonesian telco Telkomsel has deployed 49 base stations to support 4G and 5G mobile services in the country's new capital city, Nusantara (IKN). Nusantara is set to open on August 17, located on the island of Borneo, 800 miles away from the current capital Jakarta on the island of Java.

What is the 5G penetration rate in Indonesia?

Since its launch in 2021, the 5G penetration rate in Indonesia has only reached 2 percent. According to the Kearney report, this low penetration is due to limited infrastructure, such as the minimal number of transmitter stations, inadequate fiber optic networks, and limited frequency availability.

Does Indonesia need 5G spectrum resources?

Much work must be done to ensure adequate spectrum resources to support 5G development in Indonesia, especially in the crucial mid-band range (1-7 GHz). The GSMA estimates that mid-band 5G spectrum will drive an increase



of more than \$610 billion in global GDP in 2030, almost 65% of the overall socio-economic value generated by 5G.

Why is 5G a problem in Indonesia?

Spectrum constraints. Indonesia's mobile ecosystem is constrained by insufficient and fragmented mid-band spectrum*, which is essential for 5G's optimal performance: Only 360MHz of mid-band spectrum is currently assigned for mobile use—less than half of the APAC average of 850MHz.



Indonesia 5G communication base stations are far away

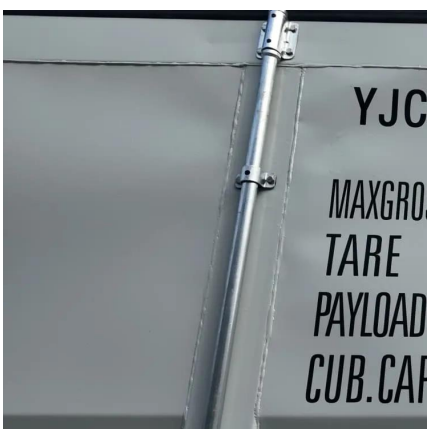


[Accelerating 5G in Indonesia: A spectrum roadmap for success](#)

In Indonesia, 5G rollout is progressing, with commercial services launched by Telkomsel, Indosat Ooredoo and XL Axiata since 2021, utilising existing spectrum holdings in the 1800 MHz, 2.1 ...

[Indonesia Island Base Stations: Engineering Solutions for ...](#)

With over 17,000 islands spanning three time zones, Indonesia's telecommunications landscape presents a unique paradox. While Jakarta enjoys 5G speeds rivaling Singapore, residents in ...



[Indonesia 5G Infrastructure Market Size and Forecasts 2030](#)

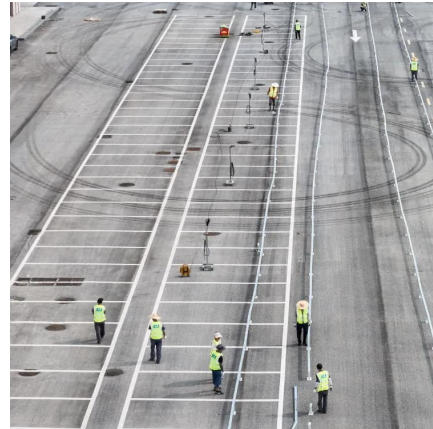
Major telecom operators and network equipment providers in Indonesia are investing heavily in upgrading their infrastructure to 5G technology, including base stations, small cells, and edge ...

[Kearney Report: 5G Adoption In Indonesia Is Low, But Can Still ...](#)

Since its launch in 2021, the 5G penetration rate in Indonesia has only reached 2 percent. According to the Kearney report, this low



penetration is due to limited infrastructure, such as ...



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