Ookla's Coverage Metrics describe the user's mobile experience with their cellular network. Coverage Score™ incorporates a measure of each provider's availability and footprint within the country. See next page for more detail.

833
Coverage Score

Coverage Score	
KPN Mobile	**833**
T-Mobile	640
Vodafone	590

Scan Counts	
KPN Mobile	**117,708,952**
T-Mobile	97,593,271
Vodafone	71,424,435

KPN Mobile's General Availability

Places that showed general availability within the country.

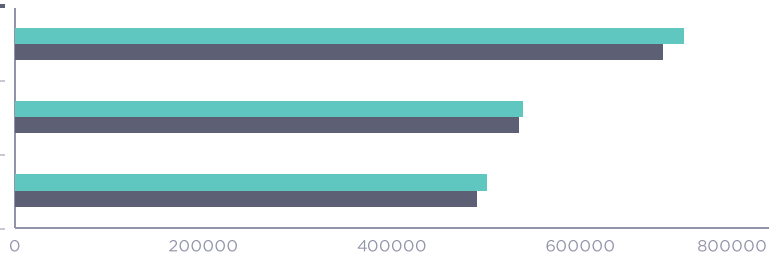
KPN Mobile's 4G Availability

Places that showed 4G availability within the country.

Coverage Statistics

367,531,673	834,642	834,526	823,546	196,341
Scan Count	Total Locations Observed	Locations with Service	Locations with 4G	Device Count

Carrier	Total Locations Observed	General Availability	4G Availability
KPN Mobile	**709,757**	**709,591**	**686,491**
T-Mobile	538,053	537,938	534,293
Vodafone	500,381	500,288	489,438



How Coverage Score Works

Ookla's Coverage Score captures both the number of locations in which an operator offers service (its footprint) and the quality of service in each location. Metrics are calculated using locations where coverage scans were contributed by Android Speedtest users. A location is an area that is equivalent to approximately 100 x 100m (about the size of a New York City block). To minimize the impact of misconfigured or underperforming devices, we require coverage scans from at least two devices at each location.

These features are determined using data from coverage scans, which capture the real-time network conditions of Android Speedtest users across the globe. An operator's footprint is the fraction of locations within a given market where a device has access to service. Each location is assigned a score based equally on the availability of general and 4G service. For example, if a provider offered non-4G service in a location, that location would receive a score of 1/2. The overall Coverage Score for an operator is its footprint multiplied by the average quality score across its observed locations. Further, a multiplier is applied to the Coverage Score so that it is scaled from 0 to 1000 to avoid confusion that it could represent the percentage of an area or population with coverage.

Coverage Maps

T-Mobile's General Availability

Places that showed general availability within the country.

T-Mobile's 4G Availability

Places that showed 4G availability within the country.

Vodafone's General Availability

Places that showed general availability within the country.

Vodafone's 4G Availability

Places that showed 4G availability within the country.