

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

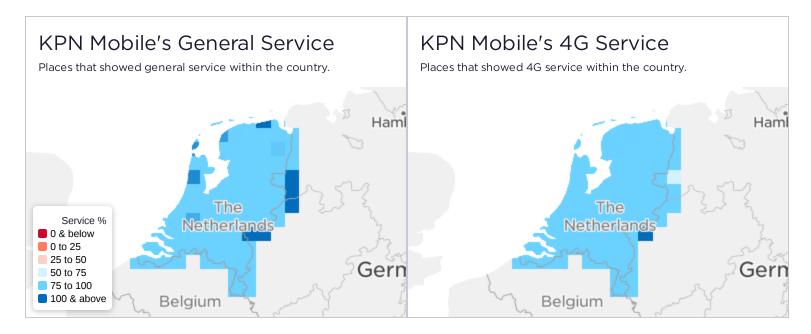
Scan Counts



816
Coverage

Coverage Score	
KPN Mobile	816
T-Mobile	672
Vodafone	536

KPN Mobile	73,205,193
T-Mobile	73,682,600
Vodafone	47,423,310



Coverage Statistics

332,115,046 646,375 646,356 645,252 477,743

Scan Count Total Locations Observed Locations with Service Locations with 4G Device Count

Carrier	Total Locations Observed	General Service	4G Service
KPN Mobile	528,581	528,564	527,100
T-Mobile	435,468	435,456	434,535
Vodafone	346,954	346,946	346,389

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 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

