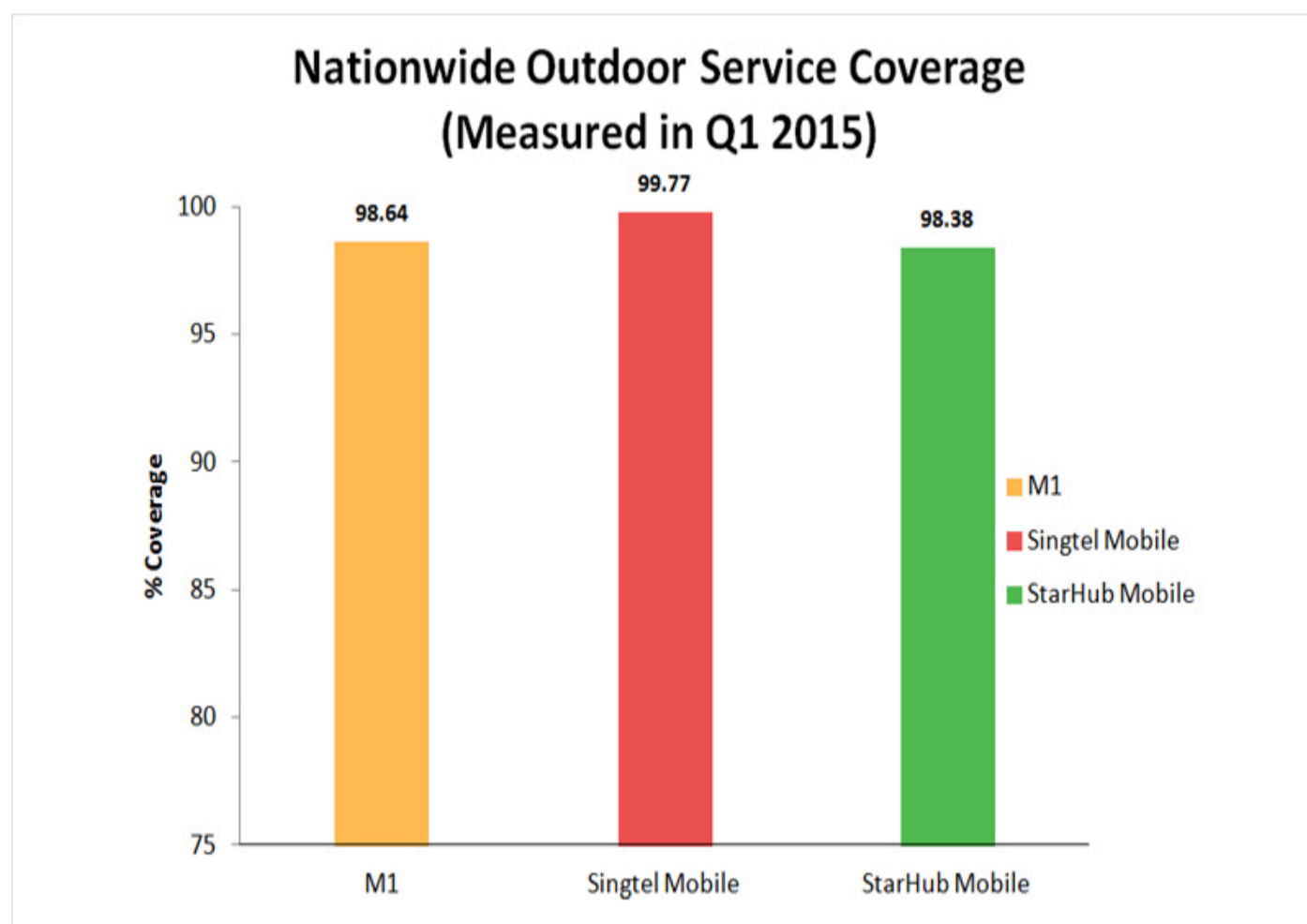


4G Measurement Survey Results for Q1 2015

4G Mobile Service Coverage in Q1 2015

Nationwide Outdoor Service Coverage

This indicator measures Nationwide Outdoor Service Coverage for the 4G cellular network. Outdoor 4G mobile service coverage is the ability of a cellular network to achieve a minimum signal strength of at least -109dBm. The outdoor areas surveyed by IDA include all main roads, as well as areas such as housing estates/town centres, outdoor recreational areas and above ground MRT tracks. In order to better reflect end users' experience, IDA had used mobile handsets to collect signal strength sample readings for all mobile service coverage indicators.



Note: End users' individual experience may differ due to various reasons such as model of handset used, handset settings, number of users in the vicinity, etc.

Tunnel Service Coverage

This indicator measures service coverage for the 4G cellular network within tunnels.

IDA's Performance Survey Period - Q1 2015	M1	Singtel Mobile	StarHub Mobile
CTE	99.27%	99.73%	100%

IDA's Performance Survey Period - Q1 2015	M1	Singtel Mobile	StarHub Mobile
KPE	Rollout in progress	99.46%	98.15%
Fort Canning		100%	100%
Woodsville		100%	100%
MCE		Rollout in progress	Rollout in progress
North-South Line MRT		93.64%	99.92%
East-West Line MRT		95.88%	99.86%
Circle Line MRT		98.84%	99.00%
North East Line MRT	97.91%	99.59%	98.51%
Changi Airport Line MRT	Rollout in progress	89.34%	80.18%
Downtown Line MRT	99.71%	100%	99.55%

Note 1: For road and/or MRT tunnels without a published result, it means that the respective mobile operator has not completed its 4G service deployment at the particular road and/or MRT tunnel.

Note 2: End users' individual experience may differ due to various reasons such as model of handset used, handset settings, number of users in the vicinity, etc. The tunnel service coverage results are based on IDA's coverage performance surveys.

Note 3: Rollout of 4G coverage between "Promenade" and "Marina Bay" MRT stations in the Circle Line is in progress.