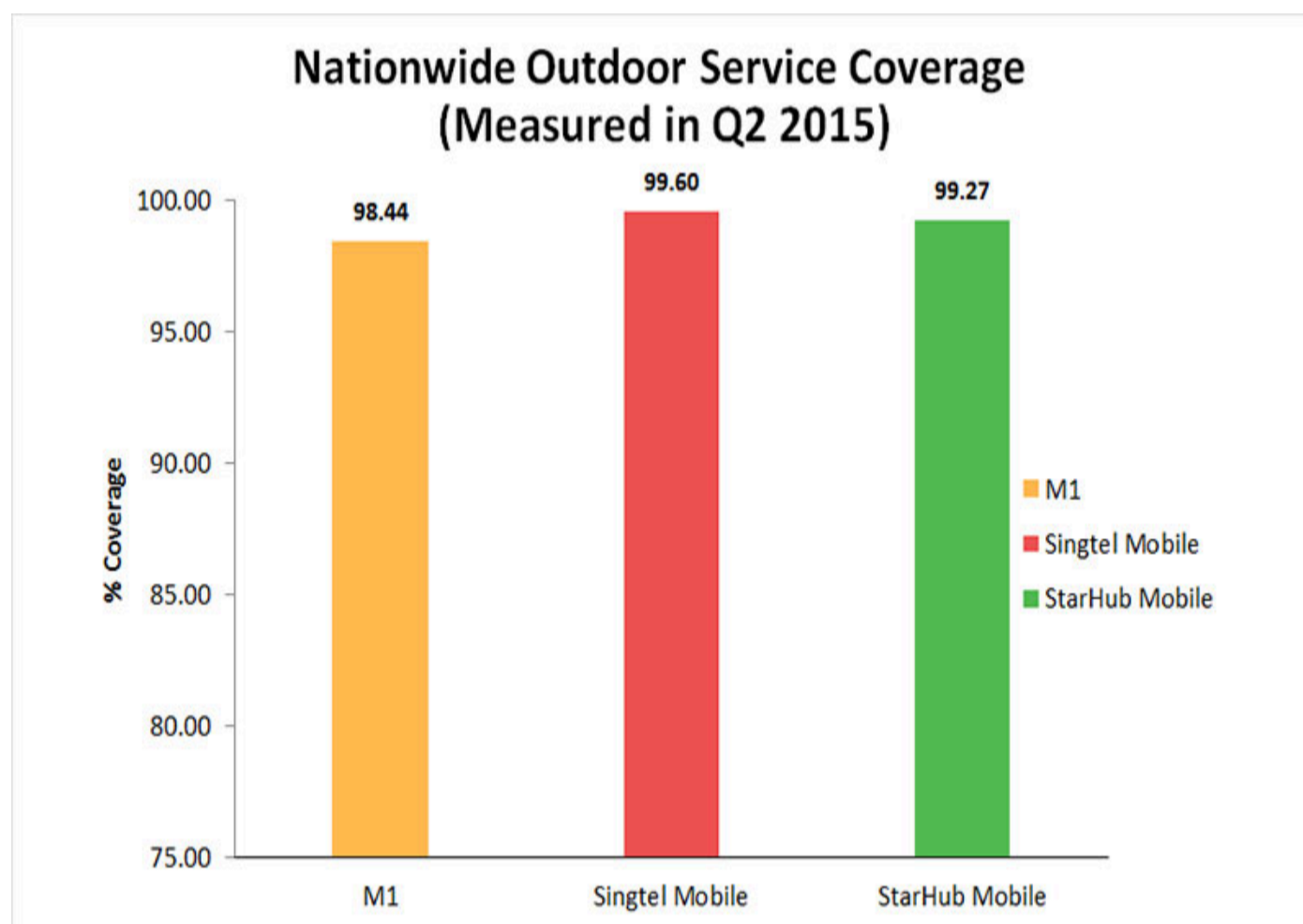


# 4G Measurement Survey Results for Q12 2015

## 4G Mobile Service Coverage in Q2 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 - Q2 2015	M1	Singtel Mobile	StarHub Mobile
CTE	99.84%	99.93%	97.21%
KPE	96.31%	98.71%	99.09%

IDA's Performance Survey Period - Q2 2015	M1	Singtel Mobile	StarHub Mobile
Fort Canning	100%	100%	100%
Woodsville	Rollout in progress	100%	100%
MCE		Rollout in progress	Rollout in progress
North-South Line MRT		97.82%	99.36%
East-West Line MRT		94.28%	100%
Circle Line MRT	98.53%	98.36%	97.88%
North East Line MRT	99.32%	99.89%	99.71%
Changi Airport Line MRT	Rollout in progress	91.41%	89.29%
Downtown Line MRT	100%	100%	100%

**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 Circle Line is in progress.