

## 4G/LTE on the Telstra Mobile Network

The Telstra 4G network is the fastest mobile broadband network in Australia.

It is available in all capital city CBD's, and currently 30 regional areas. Approximately 80 regional centres will have Telstra 4G access before Christmas 2011.

The Telstra 4G network runs on LTE technology, the fourth generation of radio technologies designed to increase the capacity and speed of mobile telephone networks.

Typical 4G download speeds are 2Mbps to 40Mbps. In Telstra's Dual Channel HSPA+ coverage areas (available in all capitals, many metropolitan and regional locations) typical download speeds are 1.1Mbps to 20Mbps. These download speeds are up to 25 times faster than the download speeds available when Telstra launched the Next G® network in 2006.

Typical 4G upload speeds are 1Mbps to 10Mbps. These upload speeds are up to 30 times faster than the upload speeds when Telstra launched the Next G® network in 2006.

Telstra 4G is backwards-compatible with its existing mobile networks, so our 4G devices will work outside of 4G-enabled areas.

Telstra is deploying LTE on the 1800MHz spectrum band. Telstra previously used this spectrum band to provide 2G GSM network services, however, with customers moving progressively to Telstra's Next G® HSPA+ network, Telstra has been able to re-farm this spectrum, with its 2G services now supported solely by 900MHz spectrum.

The LTE network is fully integrated with Telstra's existing HSPA+ network which uses the 850MHz spectrum band. When customers leave a 4G enabled area they will automatically transfer to the 3G network and vice-versa.

Telstra's 4G LTE network provides a significant capacity increase on previous technology. Telstra selected the capital city locations and regional locations based on our traffic forecasts for demand, and to provide contiguous coverage channels for customers where possible.

Telstra announced the 4G network in February 2011, installed the first base station in May 2011 and has now launched the network in September – a period of seven months. The cost of the LTE roll-out was within Telstra's planned capital expenditure.

Telstra will continue to expand and improve the Telstra Next G® network, through both LTE and other future technologies, building on the strength of our HSPA+ network which offers near 4G speeds today.

\* Capital CBDs means within 5km from the GPO in each capital city. Selected regional areas means within 3km of the GPO in selected regional areas