

# Long Term Evolution

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Network & Telecommunication

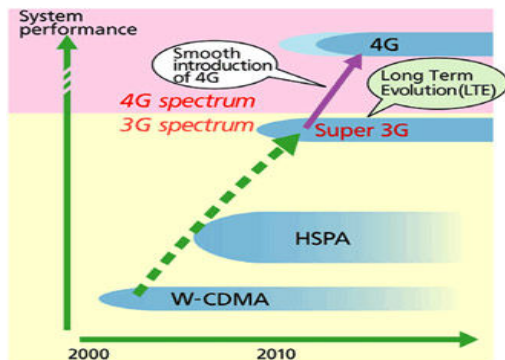


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## Long Term Evolution (LTE)



Long Term Evolution (LTE) will be the next technologies for mobile broadband service which capable to have potential bandwidth up to 100 Mbps for downloading and 50 Mbps for uploading. Long Term Evolution (LTE) is a 4G wireless broadband technology as the next generation of 3G which designed to increase the capability, speed of mobile broadband network and its performance. Long Term Evolution (LTE) is developed by the Third Generation Partnership Project (3GPP)

It is dramatically evolution when mobile broadband provider plan migrating the current broadband service to Long Term Evolution (LTE). There will be many upgrades to current mobile network especially backbone transmission to carry out huge traffic from mobile broadband service. Long Term Evolution (LTE) is designed to have high level performance of mobile broadband service such as reduce the cost per bit, increase the service provisioning, flexibility of frequency bands, simplified the network architecture and minimum power consumption

### Long Term Evolution (LTE) Technologies

To provide high data rates and more efficient to the use of spectrum, Long Term Evolution (LTE) introduces some new technologies such as:

#### 1. OFDM (Orthogonal Frequency Division Multiplex)

OFDM is allowing us to get high data bandwidth, efficient to be transferred and high degree of resilience to reflection and interference

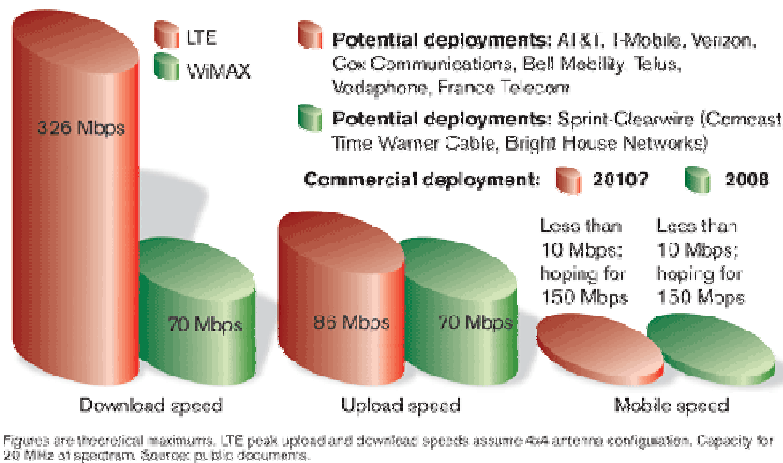
#### 2. MIMO (Multiple Input Multiple Outputs)

MIMO will able to increase the signal's throughput

#### 3. SAE (System Architecture Evolution)

SAE is designed to reduce the latency time where required to transfer high data rate for LTE

Long Term Evolution (LTE) will give much advantage for the mobile broadband providers and mobile user itself. Some how mobile broadband provider will achieve high revenue while they can provide this service



Wireless broadband is one of the broadband service which being popular in Australia due to the speed increase constantly and the reasonable price compared to the traditional broadband service such as ADSL and ADSL+. The reasons why we chose wireless broadband is due to unavailability standard broadband or mobility to allow you access high speed internet access in everywhere. However it is not easy to find the best wireless broadband providers and select which the wireless internet plans suit to our needs.

#### References

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