

# **Global LTE Market by Infrastructure (E-Utran, E Node B, EPC), End-User Devices (Smartphones, USB Modems, Card Modules, Netbooks), & Services (2010 - 2015)**

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## **Abstracts**

### **REPORT DESCRIPTION**

The need for mobile broadband is growing everyday as digital lifestyle continues to evolve with the line between cell phones, mobile handheld devices, PCs and laptops getting blurred. Users continue to show increasing interest for real time applications that include video-conferencing, publishing and social networking. Subscriber's interest in accessing high bandwidth applications such as YouTube from their mobile phones are further taxing the already stressed networks of mobile service providers. To meet this increasing demand for bandwidth, operators are migrating to LTE, which provides them with an opportunity to introduce new services such as data download, accessing internet from mobiles and ultimately helping them to improve their bottom-line.

With an eye on coping up with such technology evolutions, third generation partnerships created a project termed as 3GPP LTE. The primary objectives are to improve spectral efficiencies, lower costs, better services, making use of existing as well as new spectrum and opportunities to integrate with host of open standards, including Internet Protocol.

Typical LTE characteristics include:

Significantly increased downlink and uplink peak data rates and spectral efficiency over 3G with peak data rates up to 50 Mbs up and 100 Mbs down for 20 MHz of spectrum.

Scalable user bandwidth from 1.4 MHz to 20 MHz in both the uplink and the downlink

Less than 10 ms latency for small-size IP packets

Optimized performance for slow mobile speeds of 0 to 15 km/h; supported with high performance from 15 km/h to 120 km/h; usable from 120 km/h to 350 km/h

Co-existence with legacy standards while evolving toward an all-IP network

It is expected that with LTE, mobile network operators will introduce services ranging from multimedia, e-health, and machine-to-machine applications primarily because of faster access and upload speed and lower costs per bit of traffic to operate.

The market for LTE equipments and services are expected to register significant growth over the next few years.

In term of infrastructure shipments the LTE base stations are expected to cross 665,000 units by end of 2015.

The LTE infrastructure market is forecasted to reach \$12.1 billion by 2015, fueled by macrocell eNodeB deployments

LTE subscribers could exceed 225 million by 2015, with most of them split between Asia-Pacific and Europe, the Middle East, and Africa & the U.S.

In terms of initial deployments, TeliaSonera launched the world's first commercial LTE network in Oslo and Stockholm in December 2009, giving the lead to EMEA. In our estimates, Asia Pacific and North America will drive the first major wave of LTE rollouts in 2010 through 2012. The second wave will kick off in 2012-2013 when the Chinese operators start their rollouts along with the majority of the Western European mobile operators.

## **MARKETS COVERED**

This research report categorizes the global market for wireless broadband in public

*Global LTE Market by Infrastructure (E-Utran, E Node B, EPC), End-User Devices (Smartphones, USB Modems, Card...*

safety into the following submarkets:

On the basis of paired and unpaired spectrum:

LTE TDD (TIME DIVISION DUPLEX)

LTE FDD (FREQUENCY DIVISION DUPLEX)

On the basis of services in LTE environment:

VoIP

Video Conferencing

Instant Messaging

E-mail

Photo and Video Messaging

Informational Services

Browsing

Ringtones & Realtones

Online gaming

Mobile TV

Mobile Advertising

M Commerce

P2P file transfer

Business Apps

Others

On the basis of users

Enterprise

Consumers

On the basis of means of network access

SIMs

Dongles

Cards

Embedded Chipsets

On the basis of geography

North America

U.S.

Canada

Others

EMEA

U.K

Germany

France

Italy

Nordic Countries

South Africa

Others

APJ

Australia

New Zealand

China

India

Japan

South Korea

Others

Latin America

Brazil

Argentina

Chile

Others

## **STAKEHOLDERS**

The targeted audience for this report includes:

IT and Telecommunication companies

Government bodies and public safety entities

Network infrastructure developers

Mobile network operators

Software and hardware manufacturers

Enterprise and business users

## **RESEARCH METHODOLOGY**

Size of the potential LTE market is calculated using the supply side approach. Market trends and prices were used to arrive at market size, which was then verified by the key industry players.

Market sizes were also verified by cost volume approach.

Prices and pricing trends in different geographies were identified and analyzed through secondary & primary research, and then average selling price per unit was calculated.

All currencies are converted into USD using OANDA.COM historical exchange rate tables.

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