

# Long Term Evolution solution



## A seamless and profitable upgrade to LTE

By the year 2015, five billion people will be connected to communications networks, and these networks will experience a hundred-fold increase in traffic.

The high performance and low total cost of ownership of LTE has rightly put this technology in the spotlight. More than a hundred Communications Service Providers (CSPs) are planning LTE upgrades in the next few years.

A pioneer in LTE technology and LTE application strategies, Nokia Siemens Networks can provide your company with an end-to-end LTE / System Architecture Evolution (SAE) solution, infrastructure and services, and the smoothest possible migration path from 2/3G to LTE.

### Lightning-fast data speeds of up to 173MB/s

Nokia Siemens Networks has been at the forefront of LTE development as the first supplier in the world to demonstrate LTE with data speeds up to 160 MB/s already in 2006. We were also first to demonstrate LTE in a multi-user, urban field trial with peak rates of 173 MB/s in Dec 2007, and are the first supplier to complete a handover between LTE and HSPA.

LTE offers an open and global specification for next generation networks that will bring scale and efficiencies for vendors, choice in network equipment and devices for CSPs, and ultimately lower costs and more benefits to consumers.

### Key drivers for CSPs are:

- Capitalizing upon the increasing demand for data anytime, anywhere
- Opening new revenue streams from value-added services
- Boosting overall efficiency to combat declining voice ARPU
- Simplifying network architecture
- Support of variable standards per SW upgrades

"A worthy winner, based on the successful Flexi concept, incorporating new baseband and radio technology that enables operators to migrate from 3G/HSPA through to LTE, and NSN's commitment to how it will support this type of migration strategy."

### GSMA judges' announcement



## **A smooth, seamless network & service upgrade to LTE with Nokia Siemens Networks**

The cornerstone of our LTE offering is the future-proof Flexi BTS, which provides a smooth path to LTE. It can be deployed right now with WCDMA/HSPA and upgraded to LTE with software only, when your local launch date arrives and LTE devices become available.

And, our Evolved Packet Core provides the capabilities to guarantee an unbeatable user experience in LTE, excelling in all the important performance aspects like signalling capacity, subscriber density and data throughput. And, because voice will continue to play a very important role for CSPs, our customers will be able to enjoy a smooth path towards VoIP by either reutilizing their mobile softswitching assets with our Fast Track Voice over LTE (VoLTE) or moving straight to IMS-based VoLTE.

Finally, our Mobile Backhaul solution is LTE-ready as well. Upgrading your carrier networks with this market-leading solution from Nokia Siemens Networks will help ensure your network is ready for LTE before the competition.

### **With our LTE solution you can:**

- Bring LTE to any pre-existing antenna site
- Integrate hardware now, upgrade with software later
- Ensure smooth migration from current network to LTE
- Be the first to market with this revolutionary new standard
- Take advantage of our complete end-to-end infrastructure and services offering
- Optimize for best performance through the enhanced Self Organizing Networks (SON) features

"The upgraded infrastructure that is based on Nokia Siemens Networks' solutions will give us that flexible base to go forward. It will give us a solid foundation on which to run the 2G network, we can put HSPA and build LTE on top of it, and that gives us a massive advantage going forward."

**Patrick Scodeller**  
CTO  
M1 (Singapore)

### **Only vendor already shipping LTE-ready hardware**

**Nokia Siemens Networks is the perfect partner to help CSPs on their journey towards LTE.**

We were the first network vendor to demonstrate LTE over the air – in December, 2006. In 2009 we are the only vendor to be shipping LTE-ready equipment.

We have a strong record in IP network innovation and have developed our entire portfolio, from the core network to operational support systems and services to align with the requirements of LTE.

Additionally, our three LTE labs, including a brand-new lab in Dallas, are already helping CSPs across the world negotiate early deployments.

**To find out more visit [www.nokiasiemensnetworks.com](http://www.nokiasiemensnetworks.com)**