



# LTE EPS Technology

## 8.9.2010, Helsinki

Aika	8.9.2010
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Kieli	Opetuskieli on suomi, kurssimateriaali on englanninkielinen.

### OHJELMA

#### Keskiviikko 8.9.

08.30 – 09.00 Aamukahvi

- 09.00 –
- LTE - INTRODUCTION**
  - Limitations of 3G+ cellular network technology
  - 4G technology and market drivers
  - 3GPP Long Term Evolution (LTE) concepts
  - Operator requirements for LTE technology
  - LTE/SAE standardisation principles
  - LTE versus other 4G mobile access technologies (Mobile WiMAX, UMB)
- LTE AIR INTERFACE**
  - LTE frequency bands
  - OFDM technology principles in LTE
  - Protocols in the LTE air interface protocol stack
  - User data transmission principles on the LTE air interface
  - LTE radio channels
  - LTE radio resource management principles
  - Advanced antenna system principles in LTE
  - MISO, SIMO, MIMO and beamforming

12.00 – 12.45 Lounas

- 12.45 –
- LTE CORE NETWORK**
  - 3GPP System Architecture Evolution (SAE) concepts
  - Enhanced Packet Core (EPC) structure
  - LTE end-to-end data transfer principles
  - LTE security features
  - Fixed transmission requirements for LTE

14.30 – 14.45 Kahvi

- 14.45 –
- LTE OPERATION**
  - LTE roaming principles
  - LTE handover mechanisms
  - Interoperability mechanisms with other 3GPP technologies
  - Interoperability principles with other non-3GPP technologies

16.00 Kurssipäivä päättyy