

Trends of mobile services Christopher Laska, CEO Telenor Hungary





# Among the largest mobile operators in the world More than 200 million mobile subscribers. Approximately 33 000 employees Present in markets with 2 billion people

- Mobile operations in 11 markets across the Nordic region, Central and Eastern Europe and Asia
- A stake of close to 40% in VimpelCom Ltd, operating in 10 markets
- Headquartered in Norway



Among the top performers on Dow Jones Sustainability Indexes

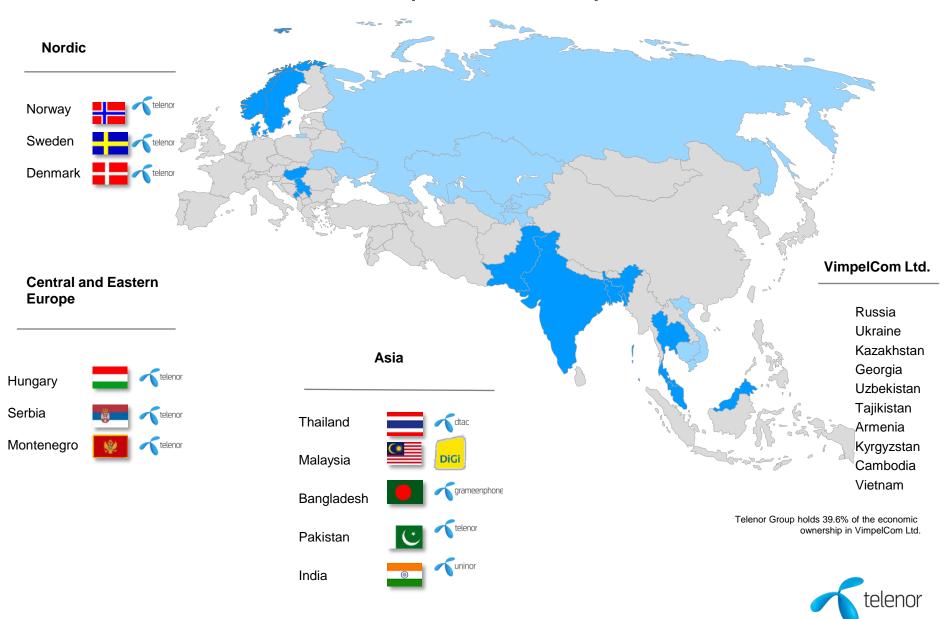
Revenues 2010: NOK 95 bn

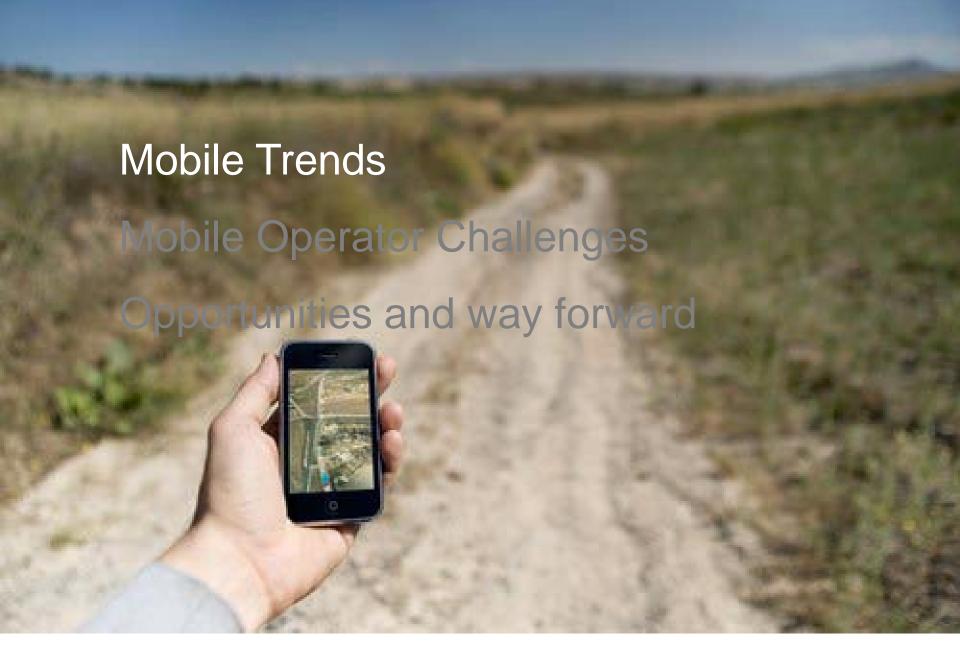
Listed on the Oslo Stock Exchange

Telenor Group is an international provider of tele, data and media communication services



#### Telenor Group mobile operations



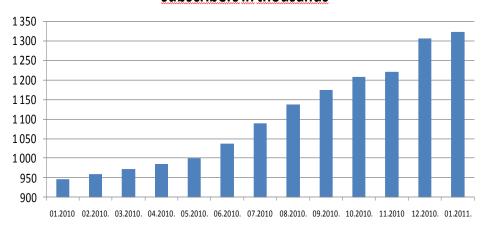




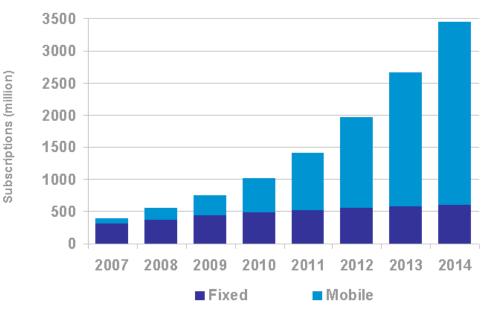
### Rapid mobile broadband growth

in Hungary 40% growth in 2011

### Number of Hungarian mobile broadband subscribers in thousands



Source: NMHH



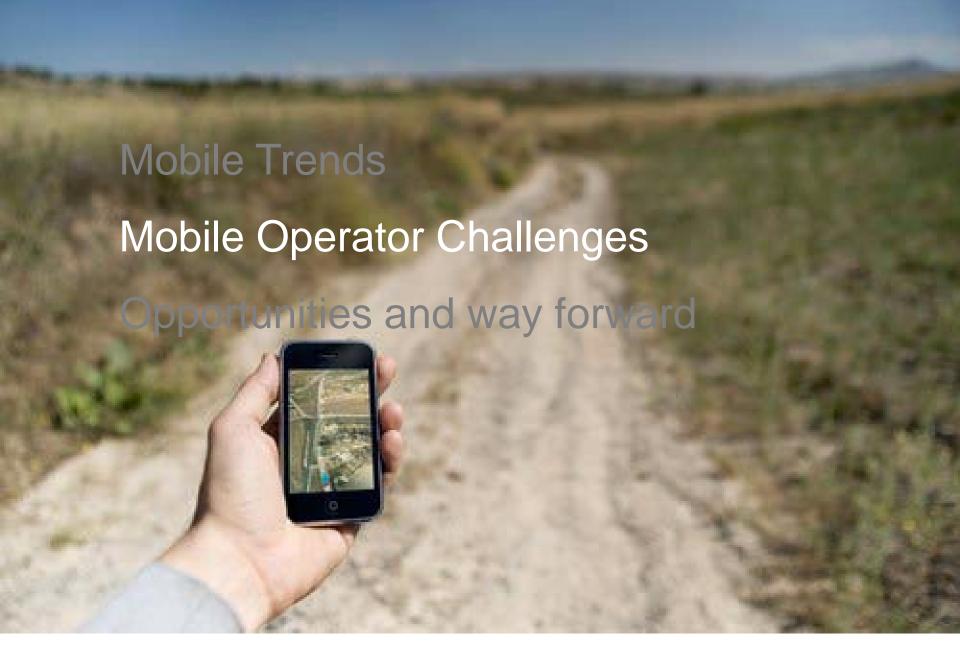
Global growth will average 50% per year for the next 3 years



Source: Ericson

#### Device diversification





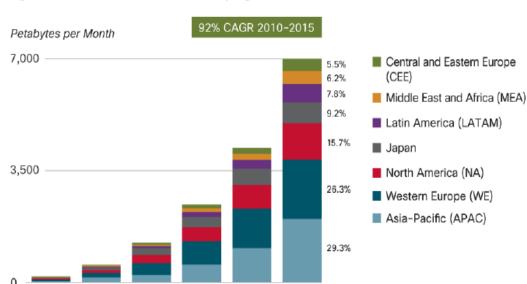


### Mobile data explosion continues

In Telenor Hungary 140% mobile data traffic growth in 2010

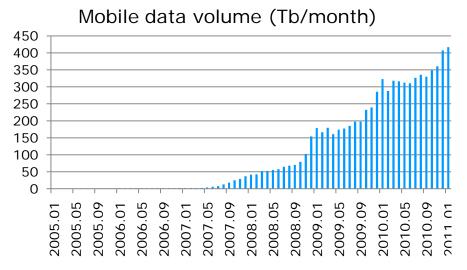
Global mobile data traffic nearly tripled in 2010

Figure 2. Global Mobile Data Traffic Forecast by Region



2014

2015



By 2015 mobile data traffic will increase 26 fold over 2010

Europe will account for over 30%

2/3 of mobile data traffic will be video by 2015



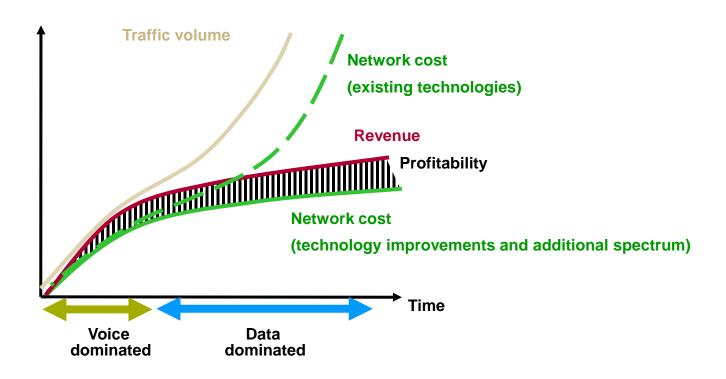
2011

2012

2013

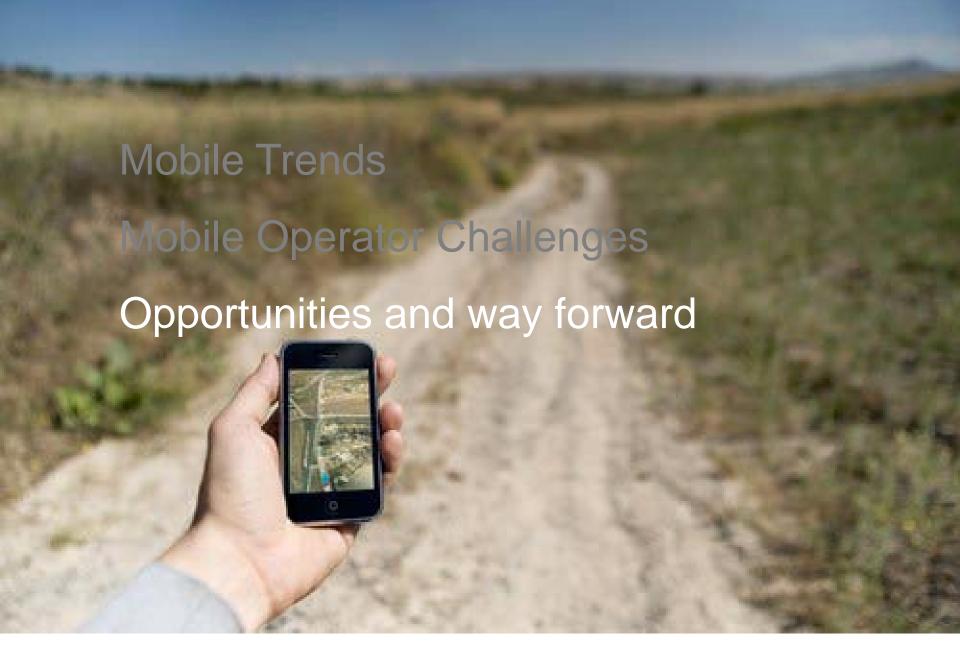
2010

### Decoupling of revenues and traffic volume



Need better network efficiency and heterogeneous network base







### Future mobile data communications demands LTE

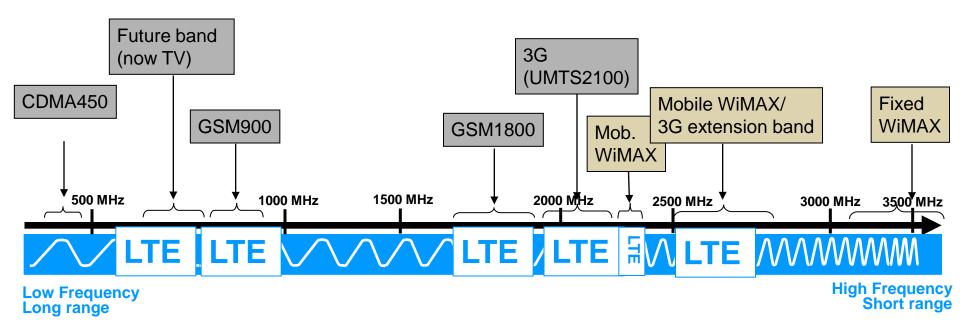


Mobile voice and data

New standard for mobile broadband



### LTE frequency band availability

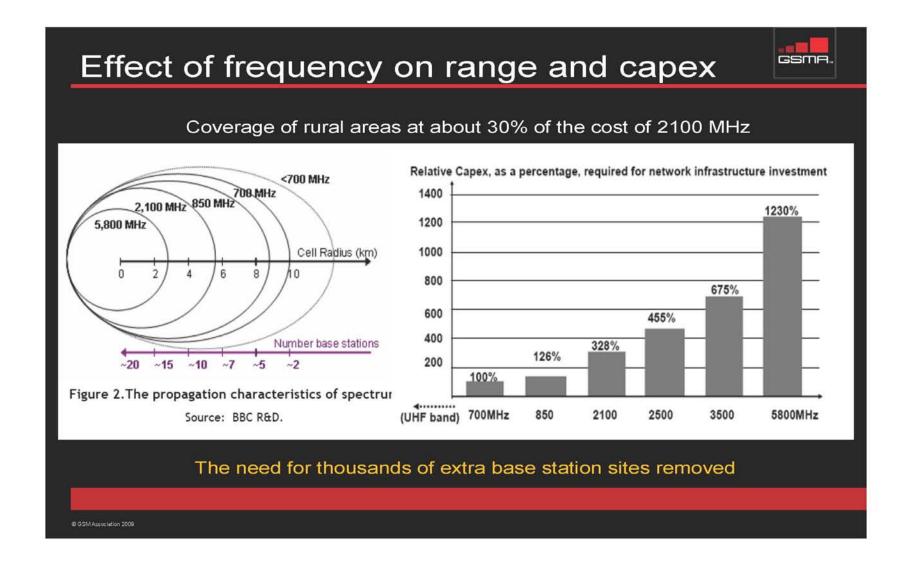


Higher frequencies for capacity

Lower frequencies for coverage and in-building penetration



# Coverage of rural areas requires low frequency spectrum



## The right spectrum policy is key to unleash the mobile broadband potential

- Harmonized release of the 800 MHz band in the EU for wireless broadband by 1 Jan 2013 should be a priority.
- Harmonisation creates economies of scale thereby lowering costs for consumers and facilitates seamless services across borders.
- EU should intensify cross-border coordination efforts towards the countries on its borders.
- Governments should assign harmonised spectrum based on flexible and least restrictive license conditions.
- Ensure transparent and objective spectrum management based on sound and predictable conditions.
- The level of spectrum fees should not be determined by fiscal priorities.



# Mobile broadband is part of the solution for Europe

Healthcare

**Transportation** 

**Utilities** 

**Consumer Electronics** 

Government





































Thank you

