

Christoph Legutko
Global Public Policy CEE
Intel Corporation
Email: christoph.legutko@intel.com
Mobile: +49 171 55 202 43
Telephone: +49 89 99143 0

Spectrum for broadband
Intel presentation resume
ITU-D in Chisinau, 3-6 October 2011

This presentation informs about currently given broadband spectrum, about regulatory environment and about improvements needed to support wireless broadband.

In the Recommendation M.1645 ITU-R has forecasted wireless peak useful data rate of 1000Mbit/s. To achieve this, the mobile internet requires a technology revolution because the current networks are developed for the constant voice traffic and are now used for the burst data traffic.

To satisfy requirements of exploding numbers of wireless broadband users the massive investments are necessary - all IP, optical fibre and 4G radio must be deployed. Wireless broadband with modern applications, services and new, unpredictable industries will not fly without massive investments into infrastructure.

The broadband wireless access is not coverage limited - it is capacity limited but Administrations do not hurry to release broadband spectrum.

In Europe there is 912 MHz of spectrum for mobile telecommunication available below 4 GHz - more spectrums is needed and considered.

Economy needs sufficient spectrum for broadband including spectrum aggregation allowance. Total available spectrum impacts the economical viability and scalability of a business models.

An US example for 2.6 GHz band illustrates the modern regulatory approach for the broadband spectrum. Europe is changing the spectrum management philosophy and the first step is achieved - the TN & SN are already accepted as regulatory principle.

Concluding, Europe should continue reshaping the radio regulatory framework.