

Title: Broadband Wireless Network Implementation Options and Challenges for Africa

Abstract:

Broadband Network implementations have been dominated by traditional fixed line operators and cable service providers for many years in mature markets. However, most recently in emerging markets, with a view to quickly implement broadband networks, wireless technologies have become a viable alternative. In addition, driven by the requirements of quadruple play (voice, video, data and mobility) and to be able to compete with traditional cable and wire-line operators (wherever they exist) all IP solutions and fixed mobile convergence have become important.

Thus the next generation of wireless technology evolution incorporates various advanced wireless techniques to increase spectral efficiency many fold in order to provide high data rates, low latencies to be able meet these requirements.

This presentation, gives an overview of the current 3GPP/PP2 broadband air interfaces evolution and system Architectures Evolution (SAE) recommended for the next generation wireless systems or what are also called 4G systems. It provides some insight into some of the options that are available to African operators. It also discusses some of the challenges operators are likely to encounter for different deployment scenarios.