

The Future of Mobile Broadband

Anil Kripalani, Senior Vice President for Global Technology Affairs, QUALCOMM, San Diego, California

The most critical question in the communications industry today is “What’s coming next in mobile communications?” This keynote presentation will first cover emerging technologies that are critical to the success and proliferation of mobile-based services such as CDMA2000/EV-DO, WCDMA/HSPA, OFDMA/UMB, and LTE. For comparison, a perspective will be presented on WiMAX and the realities of how WiMAX is expected to perform in comparison with other WWAN technologies. After setting the foundation with enabling technologies, the presentation elaborates on the future capabilities of mobile devices, the convergence of mobile devices and consumer electronics, and the benefits and innovative services/applications new devices will offer device manufacturers, operators, content providers, application developers and end users.



Anil Kripalani is Corporate Senior Vice President for Global Technology Affairs at QUALCOMM Inc. based in San Diego, California. Kripalani actively promotes the global adoption and deployment of current broadband standards as well as positions next-generation wireless air interface and network technologies

that enable wireless multimedia services. Prior to joining QUALCOMM in 1994, Kripalani spent over 18 years at AT&T Bell Laboratories, AT&T Network Wireless Systems, and AT&T Information Systems and served as a department head for Wireless Systems and Local Access Architecture in AT&T’s Chief Architects Division.

The Next Direction of Advanced Wireless Communication Technology — Medical ICT!

Ryuji Kohno, Ph.D., Professor and Director, Center of Medical Information and Communication Technology, Yokohama National University, Japan

Mobile wireless communications face new challenges in the near future. If we look at what's next in information communication technology (ICT), a ubiquitous medical healthcare system using advanced ICT technologies such as UWB, SDR, and MIMO holds great promise for both academia and industry. This new advanced “Medical ICT” can be used to address the serious problems of an aging population. Currently, Medical ICT is engaged as one of the most significant innovations in a new Japanese governmental primary plan for promoting science and technology. This keynote speech will introduce Medical ICT projects and activities in order to encourage global collaboration as well as plant many R&D and business seeds in academia and industry.



Ryuji Kohno received the Ph.D. degree from the University of Tokyo in 1984. Dr. Kohno is currently a Professor in the Division of Physics, Electrical and Computer Engineering, and the Director of Center on Medical Information and Communication Technology at Yokohama National University. He served as

director of the Advanced Telecommunications Laboratory of SONY CSL during 1998–2002 and a director of the UWB Technology Institute of the National Institute of Information and Communications Technology (NICT) during 2002–2006. He currently is a director of the Medical ICT Institute of the NICT.