

## **Wireless Future Internet**

There is a considerable amount of research going into the Future Internet, with a wide range of activities globally. Whether the aim is a 'clean slate' or an evolution of the existing Internet, or the focus is on the Internet of Services or the Internet of Things, one thing is clear: the usual mode of access to the Internet will be wireless. Conversely the huge rise in mobile data traffic and the requirement for future mobile networks to support the Internet of Things lead us to conclude that the key requirement for future mobile generations will be largely to provide fast, efficient, low latency, scalable, affordable and sustainable Internet access for people and machines.

At this moment, where new generations of mobile and wireless communications and of the Internet are being considered, WWRF should dedicate itself to the further development of ICT with a focus on wireless technology and the application of these technologies for all sectors of society and economy.

This will require work on the underlying technology, including access interfaces (whether optical or radio), spectrum management and network protocols. Wireless is used in its broadest sense, from wide-area networks (including satellites and broadcast) to short-range communications (including femtocells and visible-light communication), including machine-to-machine communications, sensor networks and wireless broadband. The development of the key concepts and technologies for ever evolving wireless is a vital part of this effort.

Derived from an understanding of user-centric design, the Forum will encourage the development of all kinds of applications, and ensure wireless access to the Future Internet at affordable cost globally from high to low-population regions. The needs of the Internet of Things will be taken into account, by providing efficient and reliable low-latency communications for machines.

Through this work we will be able to address key societal challenges for the future, such as inclusion, the support of innovation and business as well as meeting infrastructural challenges such as transport, health and energy management.

With this interpretation the Wireless Future Internet is supported as WWRF's big theme for 2012.