

## Opening remarks

### ITU Workshop on Spectrum Management for Internet of Things Deployment ([www.itu.int/go/ITU-R/RSG1SG5-IoT-16](http://www.itu.int/go/ITU-R/RSG1SG5-IoT-16))

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1400 hours, ITU Room Popov

Dear Chairmen,  
Ladies and Gentlemen,  
Dear Colleagues,

It is a privilege and a pleasure to welcome you this afternoon, on behalf of the ITU Secretary General, Mr. Houlin Zhao, for the opening session of this Workshop on Spectrum Management for Internet of Things Deployment.

This workshop is organized by the Radiocommunication Bureau following a suggestion by the ITU-R Study Groups 1 and 5 Chairmen, and I would like to express my sincere appreciation for this excellent and very timely initiative.

I would like also to thank the speakers who have kindly accepted to provide presentations on the different aspects of this topic of increasing importance for our community.

The mission of the ITU is to provide an enabling environment for telecommunication networks, and in particular for radiocommunications.

In this regard, IoT requirements are expected to be addressed in IMT-2020 (5G) specifications which are currently under development in ITU-R Study Group 5 and should be finalized in 2019.

Also, WRC-15 decided to study urgently the technical and operational aspects of radio networks and systems to support the implementation of narrowband and broadband machine-type communication infrastructures.

The Radiocommunication Assembly 2015 also invited ITU-R to carry out studies on wireless systems and applications for the development of the Internet of Things.

The progress made so far on these studies within the different ITU-R groups will be briefly presented this afternoon.

The growing number of IoT applications may require enhanced transmission speed (dependent upon the IoT use case), device connectivity and energy efficiency to accommodate the significant amounts of data among a plethora of devices, ubiquitous sensors and/or actuators.

New IoT applications are being implemented in different countries based on existing and/or new radio technologies as well as on different regulatory regimes (licenced or unlicensed).

Obviously all options need to be considered in order to provide best solutions for each and every IoT application in terms of spectrum needs, long or short range communication, signal latency, regulatory flexibility, equipment cost and complexity, QoS, security, battery life time, etc.

The efforts of relevant standardization bodies are very important in that respect and new standards are emerging quickly.

The information presented by different stakeholders during this workshop will provide a unique opportunity to understand all these complex aspects.

It is also very important to bear in mind the need for a possible harmonized use of the spectrum, globally or regionally, to achieve economies of scale and facilitate the interoperability and roaming of the IoT devices.

For this purpose, collaborative discussions on the technical, operational, economical and regulatory aspects of this question are essential if progress is to be made quickly.

The ITU radiocommunication sector has a key role to play on all these aspects and provides a unique forum for discussions between governments, regulators, operators, manufacturers and academia.

Workshops such as the one this afternoon are also necessary to open the participation and allow for more informal discussions.

To this end, we may organize other workshops on this issue in the future to complement the information exchanged today.

I look forward to the discussions that you will have this afternoon, since they will help in achieving a better understanding of the different spectrum management aspects for the IoT deployment.

I wish you a very successful workshop.