

High Level Session on 'ITU enabling the wireless ecosystem' WSIS Forum 2017, 12 June 2017, 16h30

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Costa Rica has a long tradition working together with the ITU. To show how ITU is promoting the development of the wireless ecosystem, I will give you two examples of actions going on in Costa Rica, supported by all the standards and recommendations of ITU.

FIRST EXAMPLE: Managing and monitoring the spectrum

Costa Rica, in 2014, consolidated a Management and Monitoring National System of the spectrum, allow to make analysis of the spectrum in the range of 30 KHz to 6 GHz, with 5 fixed stations, and with capacity to arrive to 40 GHz with two mobile stations.

This system, model in the Region, is formed by two mobile unites equipped with the last technology, to make measurements from any place in the country, and five fix stations placed at: Pérez Zeledón, San Rafael de Heredia, Oreamuno de Cartago, Liberia Guanacaste and Puntarenas. All the stations joint in between and with the Monitoring Center placed in SUTEL.

This permanent surveillance of the use of the spectrum is made with the standards of the International Telecommunication Union (ITU), allowing to promote the efficient use of the radioelectric spectrum.

SECOND EXAMPLE: Auction of spectrum

Costa Rica had the first spectrum auction in between 2010 and 2011. The objectives of this process where:

- Open the mobile telecommunication market to the competence.
- To provide mobile services in the total of the Costa Rican territory.
- Efficient use of the spectrum.
- Environmental Sustainability

The frequencies for the auction where (3 blocks)

2x5 MHz in the band of 850 MHz

2x55 MHz in the band of 1800 MHz

2x40 MHz in the band of 1900/2100 MHz

Were collected a total of US\$ 170 million for 130 MHz.

- US\$0,27/MHz/pop
- Telefónica presented the biggest offer: US\$ 95 millions
- The offer of Claro was US\$ 75 millions
- Rested 70 MHz available, for a future assignation.

New auction of spectrum 2016-2017

The 11 May were received the technical offers to participate in the new tender of the 70MHz available, in the bands of 1800 MHz and 1900/2100 MHz, to be assigned in one “clock auction” process.

Objectives of this new process:

- Improve the quality of service
- Avoid spectrum concentration
- Environment sustainability

Type of auction

- Clock auction
- Generic blocks (5 MHz)
- Re-organization phase.

**Thank you very much
Eng. Jaime Herrera
SUTEL**