



# Workshop on Economic Aspects of Spectrum Management

Tehran – I.R. Iran, 21 - 23 November 2016

## WORKSHOP REPORT

### 1. Summary of Workshop

Regional workshop on "**Spectrum Management: Economic Aspects**" was successfully held in Tehran, I.R. Iran, from 21<sup>st</sup> to 23<sup>rd</sup> November 2016. The workshop was organized International Telecommunication Union (ITU) and the Ministry of ICT (I.R. Iran) - ICT Faculty later being the host of the event, and was supported by is supported by Ministry of Science, ICT and Future Planning (MSIP) – Republic of Korea and Department of Communications and Arts – Australia.

The workshop consisted of **8** sessions involving presentation on, amongst other,

- *National Spectrum Management and its international dimensions*
- *Economics of spectrum as a resource*
- *Spectrum liberalization and Methods of incorporating economic forces and market mechanisms in SM*
- *Ways of ensuring access to spectrum;*
- *Spectrum Assignment and the design of spectrum auctions*
- *Setting up rules for secondary markets in spectrum trading*
- *Re-purposing and re-farming spectrum bands*
- *Spectrum pricing and valuation*

A group exercise was also arranged on **Introducing Spectrum Liberalization and creating auction** during which a detailed case study was put forward to the participants who were distributed in 4 groups that represented 4 distinct stakeholders in economic management of spectrum. This group distribution helped in bringing forward different point of views on issues related to spectrum Auction from diverse representatives. The groups constituted from the participants from:

- *Administration*
- *Regulators (divided into two separate groups)*
- *Operators and Academia*

The detailed program is available on the event webpage at <http://itu.int/go/SM-Economics>.

The hosts also arranged social visit which was fully appreciated by all the participants.

### 2. WORKSHOP PARTICIPATION



The event was attended by **54** participants from **19** countries with **14** from various policy making Administration, **21** from multiple national Regulators and **19** from Industry (Mobile Operators) and Academia.

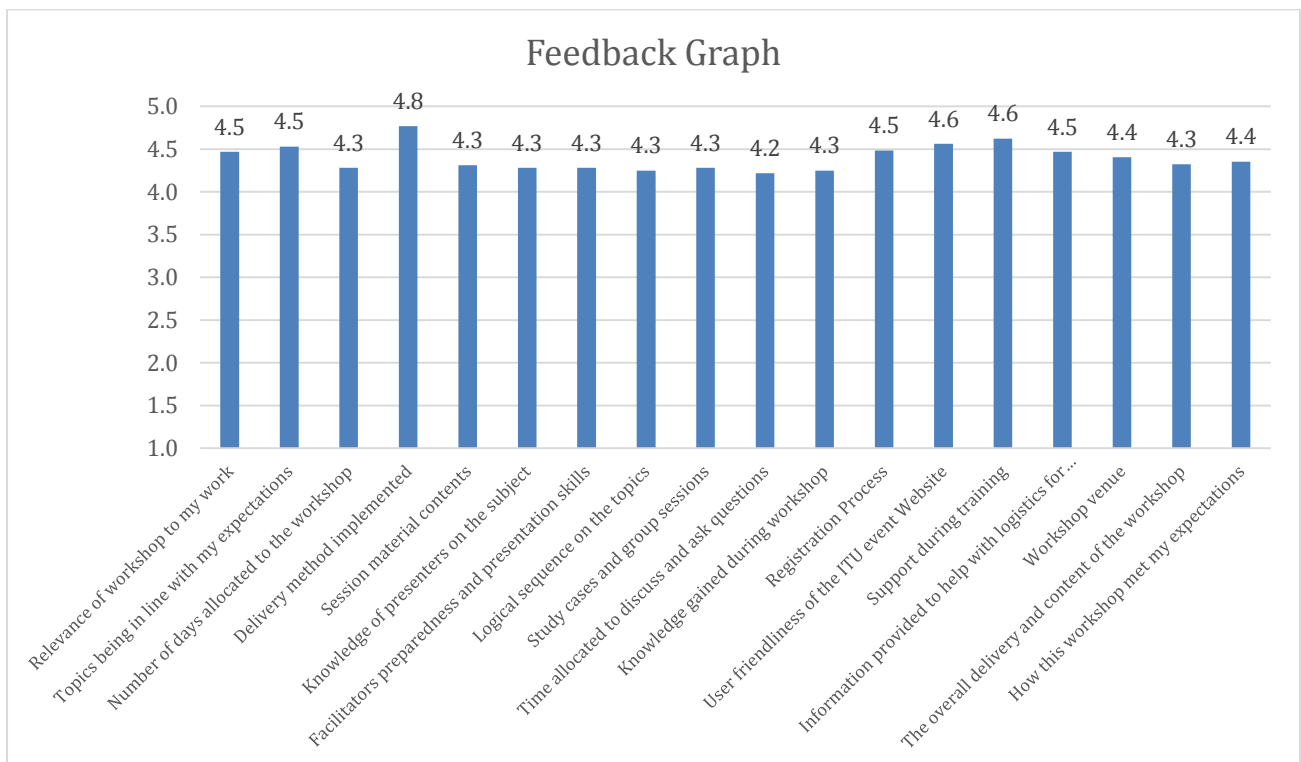
### 3. EXPERTS AND PRESENTATIONS

In addition to **4** presentations during the group exercise sessions, **20** presentations from **13** speakers were made during the relevant sessions of the workshop. The presentations included the country case studies by participants of various countries thereby sharing vital information for further benchmarking. All the presentations and details of the speakers are available at fore-mentioned event [webpage](#).

### 4. FEEDBACK

The workshop received excellent feedback from all participants (see chart 1). In summary, the topics of the program were considered to be highly relevant and delivered by knowledgeable experts in a way that aided participation and learning.

The participants recommended to increase the duration of the workshop in future and to arrange another such workshop covering the technical aspects of the Spectrum Management.



**Chart 1: Workshop Feedback Summary**

- X-Axis entries correspond to questions of the feedback form.
- Y-axis entries are the average of all the responses received.



**Note:** Feedback was taken through online form that was made available at the event webpage.

## 5. Conclusion

The workshop brought together diverse participants from policy makers, regulators, corporate managers and academia thereby providing a very relevant platform to discuss in detail the challenges faced while performing the Spectrum Management responsibilities in their respective organizations in general and in particular its economic side of Spectrum Management.

On evaluation on the feedback from participants, it was concluded that the workshop was successful in achieving its defined objectives i.e:

- *Understand the process and approaches to national Spectrum Management (SM) viz a viz the international developments*
- *Introduce the main economic principles and market-based mechanisms of spectrum management.*
- *Present and analyze available market tools for economic efficiency in the use of spectrum, such as auctions and spectrum pricing.*
- *Identify how and where market- and price- based tools fit into a country's chosen regime of modern spectrum management.*

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