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| **ITU Centres of Excellence Network for Asia and the Pacific**  **State Radio Monitoring Center - China**  **Training on**  **SPECTRUM ENGINEERING AND CROSS-BORDER RADIO FREQUENCY COORDINATION**  **Xi’an, Shanxi Province, China (Peoples Republic of)**  **11 – 15 September 2017** |
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Group 3 Exercise: Spectrum Utilization Evaluation

**Background**

Let’s divide the spectrum management (SM) into two phases: before-use SM and in-use SM.

Typically, the before-use SM mainly includes: spectrum allocation/plan/allotment/assignment, and related spectrum engineering. While the in-use SM mainly focuses on spectrum monitoring.

Traditionally, the spectrum monitoring concentrates on the usage order, i.e. to avoid harmful interference. Nowadays, however, with the fast development of ICT industry, the contradiction between spectrum supply and demand is much more prominent. Focusing on spectrum usage order is not enough, but also the spectrum efficiency.

For the evaluation methodology, we may need to identify some Key Performance Indicators (KPIs) for current spectrum usage. ITU-R REC SM.1046 gives an example. And a new Question is established in ITU-R SG1 to deal with this issue.

**ASSIGNMENT**

Questions:

* How do we evaluate the utilization efficiency of the spectrum already assigned?
* How do we react depending on the evaluation results?
* And whether the in-use SM results can contribute to the before-use SM in a proper way, formulating a close-loop spectrum management?
* Is your country already consider such kind of management? If so, please introduce some practice as examples. If not, try to give opinions.

**Your response should be in the form of presentation delivered by maximum 3 persons nominated by the group. The maximum time is 15 minutes. Views within group can be divergent and all views should be presented.**