



90th Anniversary
CCIR/ITU-R Study Groups
(1927-2017)

Radiocommunication Bureau (BR)

Administrative Circular
CACE/831

15 September 2017

**To Administrations of Member States of the ITU, Radiocommunication Sector Members,
ITU-R Associates participating in the work of the Radiocommunication Study Group 1 and ITU
Academia**

Subject: Radiocommunication Study Group 1 (Spectrum management)
– **Approval of 1 new ITU-R Question**

By Administrative Circular CACE/818 of 7 July 2017, 1 draft new ITU-R Question was submitted for approval by correspondence in accordance with Resolution ITU-R 1-7 (§ A2.5.2.3).

The conditions governing this procedure were met on 7 September 2017.

The text of the approved Question is attached for your reference in the Annex to this letter and will be published by the ITU.

François Rancy
Director

Annex: 1

Distribution:

- Administrations of Member States of the ITU and Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 1
- ITU-R Associates participating in the work of Radiocommunication Study Group 1
- ITU Academia
- Chairmen and Vice-Chairmen of Radiocommunication Study Groups
- Chairman and Vice-Chairmen of the Conference Preparatory Meeting
- Members of the Radio Regulations Board
- Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

Annex

QUESTION ITU-R 240/1

Assessment of spectrum efficiency and economic value

(2017)

The ITU Radiocommunication Assembly,

considering

- a) that spectrum is a limited and valuable resource for economic and social development;
- b) that the demand for spectrum is increasing due to increased traffic, and a limited spectrum supply;
- c) that higher frequencies provide more bandwidth and ease sharing due to high propagation losses;
- d) that quantification of coverage and capacity assists to ensure the quality of service;
- e) that spectrum fees may assist to optimize the use of spectrum,

noting

- a) [Recommendation ITU-R SM.1046](#) 'Definition of spectrum use and efficiency of a radio system' and [Report ITU-R SM.2012](#) 'Economic aspects of spectrum management';
- b) that the ITU-R publications in *noting a*) do not provide an assessment of capacity (bit/s/Hz), and do not address the questions in the *decides* part,

decides that the following Questions should be studied

- 1 What is the method to quantify spectrum efficiency?
- 2 Which are the factors that define the economic value of spectrum?
- 3 What is a general model to assess the economic value of spectrum?

further decides

- 1 that the results of the above studies should be included in Recommendation(s) and/or Report(s) or Handbook(s);
- 2 that the above studies should be completed by 2023.

Category: S2
