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](http://www.itu.int/rec/R-REC-SM/recommendation.asp?lang=en&parent=R-REC-SM.1046) ‘Definition of spectrum use and efficiency of a radio system’ and [Report ITU-R SM.2012](http://www.itu.int/pub/R-REP-SM/publications.aspx?lang=en&parent=R-REP-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

1that the results of the above studies should be included in Recommendation(s) and/or Report(s) or Handbook(s);

2that the above studies should be completed by 2023.

Category: S2