



Radiocommunication Bureau (BR)

Administrative Circular
CACE/982

11 June 2021

**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)**
 – **Proposed approval of 1 draft new ITU-R Question**

At the meeting of Radiocommunication Study Group 1 held on 3 June 2021, 1 draft new ITU-R Question was adopted according to Resolution ITU-R 1-8 (§ A2.5.2.2) and it was agreed to apply the procedure of Resolution ITU-R 1-8 (see § A2.5.2.3) for approval of Questions in the interval between Radiocommunication Assemblies. The text of the draft ITU-R Question is attached for your reference in the Annex to this letter. Any Member State which objects to the approval of a draft Question is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

Having regard to the provisions of § A2.5.2.3 of Resolution ITU-R 1-8, Member States are requested to inform the Secretariat (brsgd@itu.int) by 11 August 2021, whether they approve or do not approve the proposal above.

After the above-mentioned deadline, the results of this consultation will be announced in an Administrative Circular and the approved Question will be published as soon as practicable (see: <http://www.itu.int/ITU-R/go/que-rsg1/en>).

Mario Maniewicz
Director

Annex: 1 draft new ITU-R Question

Annex

(Document [1/49\(Rev.1\)](#))

DRAFT NEW QUESTION ITU-R [GPR/WPR]/1

Spectrum management framework for the introduction of Ground- and Wall- Penetrating Radar (GPR/WPR) imaging systems

(2021)

The ITU Radiocommunication Assembly,

considering

- a)* that Ground- and Wall- Penetrating Radar (GPR/WPR) imaging systems have been used by professionals for over 30 years globally in investigation and detection applications;
- b)* that GPR/WPR emissions spread over a very large frequency range and the frequency bands used by GPR/WPR tends to expand gradually;
- c)* that GPR/WPR devices may be integrated into the scope of Ultra-wideband (UWB), but it may differ with characteristics, technical requirements and the impact on other radiocommunication services of generic UWB devices;
- d)* that the emissions from GPR/WPR devices have not been studied in detail on the current complex electromagnetic environment;
- e)* that GPR/WPR imaging systems present a potential to transmit in bands allocated to passive services that are covered by footnote No. **5.340** of the Radio Regulations (RR) that prohibits all emissions;
- f)* that the licensing regime for imaging systems varies between administrations, with most handling the issue with experimental or short time licenses,

considering further

- a)* that a report on the status of GPR/WPR system by administrations would support ITU membership, in particular developing countries which plan to introduce a system for the use of GPR/WPR;
- b)* that the sharing of experiences and case studies of countries that have already introduced and used GPR/WPR within their institutions will greatly contribute to the efficient spectrum use and promotion,

noting

a) that [ECC Decision \(06\)08](#) shows the conditions for use of the radio spectrum by GPR/WPR imaging system;

b) that [FCC Title 47 Part 15.509](#) presents Technical requirements for GPR/WPR systems,

decides that the following Questions should be studied

1 What technologies and what range of frequencies are used in GPR/WPR systems?

2 What are the conditions and measures to ensure that GPR/WPR devices do not cause harmful interference to any radiocommunication service, in particular those services operating in accordance with RR No. **5.340**?

3 What are the current spectrum management policies and future plans of the national authorities for management and authorization of the use of GPR/WPR?

further decides

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

2 that the above studies should be completed by 2023.

Category: S3
