QUESTION ITU-R 77-9/5[[1]](#footnote-1)\*

**Consideration of the needs of developing countries in the development and implementation of the terrestrial component of IMT**

(1986-1992-1993-1997-2000-2003-2007-2012-2019-2023)

The ITU Radiocommunication Assembly,

considering

*a)* the work carried out so far by the Radiocommunication Sector on mobile radiocommunication systems, in particular of International Mobile Telecommunications (IMT);

*b)* the various ITU-R Recommendations on IMT, including those addressing the needs of developing countries;

*c)* that different frequency bands are identified in the ITU Radio Regulations (RR) for use, on a worldwide, regional or country basis, by administrations wishing to implement IMT systems;

*d)* Resolution 43 (Rev. Buenos Aires, 2017), of the World Telecommunication Development Conference on “Assistance in implementing International Mobile Telecommunications (IMT) and future networks”;

*e)* ITU-T Recommendations and ongoing work items that are relevant to this work;

*f)* the potential increase in the pace of deployment and provision of broadband communications services in the developing countries through the use of cost-effective wireless access technologies including IMT for both fixed and mobile users,

decides that the following Question should be studied:

What are the optimal technical and operational characteristics for the terrestrial component of IMT to meet the needs of developing countries for cost effective broadband access to the global telecommunication networks?

NOTE 1 – In carrying out the above study, particular attention should be given to the following items:

*a)* the need to provide an economical, reliable and high-quality telecommunication infrastructure;

*b)* the need for modular design (easily expandable) for both hardware and software, and simple and low-cost terminals allowing flexible growth of number of users and coverage areas;

*c)* the evolution and demand for the applications provided by the terrestrial component of IMT;

*d)* harmonized and efficient use of frequency bands for urban, rural and remote areas to the extent possible;

*e)* propagation phenomena and associated conditions in these areas;

*f)* the possibility of using the equipment in a variety of environments including extremes of heat and cold, high humidity, dust, corrosive atmospheres and other environment hazards;

*g)* approaches and experiences of administrations in implementing the terrestrial component of IMT in various frequency ranges and various environments;

*h)* the need for common access to emergency services supported through the terrestrial component of IMT,

further decides

1 that the results of the above studies should be included in one or more Recommendations, Reports, or Handbooks[[2]](#footnote-2)1;

2 that work on the above studies be brought to the attention of the relevant ITU‑D and ITU‑T Study Groups;

3 that the results of the above studies should be completed by 2027.

Category: S2

1. \* This Question should be brought to the attention of Radiocommunication Study Group 3, Telecommunication Standardization Study Group 13 and Telecommunication Development Study Group 1. [↑](#footnote-ref-1)
2. 1 The material developed as a result of the above may also be appropriate as an update of the relevant Handbooks on IMT. [↑](#footnote-ref-2)