Question 25/2: Access technology for broadband telecommunications including IMT, for developing countries

1   Statement of the situation

ITU-D Study Group 2 will provide developing countries with an understanding of the different technologies available for broadband access using both wired and wireless technologies for terrestrial and satellite telecommunications, including International Mobile Telecommunications (IMT). Study Group 2 will continue to cover the technical issues involved in deploying broadband access technologies, including the integration of such access network solutions in existing and future network infrastructures, provide guidelines for broadband access development, taking into account the fact that the standardization of broadband access technologies is a priority in the strategic plan of ITU, and respond to the initiatives of all developing countries (as proposed by the six WTDC regional preparatory meetings (RPMs).

2   Question for study

Identify the factors influencing the effective deployment of broadband wireline, wireless and satellite access technologies and their applications, with a focus on technologies and/or standards recognized or under study by the other two ITU Sectors.

a)   Examine wired and wireless broadband access technologies and their future trends;

b)   Identify methodologies for migration planning and implementation of broadband wired and wireless technologies, taking into account existing networks, as appropriate;

c)   Consider trends of broadband access technologies; deployments, services offered and regulatory considerations;

d)   Continue to identify ways and means of implementing IMT, using terrestrial links and satellites;

e)   Identify key elements to be studied in order to facilitate the possible deployment of systems integrating satellite and the terrestrial component of IMT (see Recommendation 206 (WRC-07);

f)   Provide information on the specific impact of the implementation of broadband wired and wireless means, including IMT, on underserved populations, including persons with disabilities;

g)   Provide information on IMT-Advanced systems based on the advice of Working Party 5D of ITU-R Study Group 5.

3   Expected output

a)   Yearly progress report on the above study items includinga matrix of different broadband access technologies, both wired and wireless, terrestrial and satellite, with yearly updates;

b)   Analysis of the factors influencing the effective deployment of broadband access core technologies;

c)   A set of guidelines for broadband access deployment that could be delivered *inter alia* through training seminars in accordance with the BDT Programme 4;

d)   A handbook on IMT deployment in developing countries to replace the Handbook on Deployment of IMT-2000 systems (2003). This handbook will be the result of study group

collaboration between ITU-R Study Groups 4 and 5, ITU-T Study Group 13 and the Rapporteur's Group dealing with this Question as part of ITU-D Study Group 2;

e)   Draft Recommendation(s), as appropriate and if justified.

4   Timing

The interim report on this Question is expected by 2012. The final report is expected in 2013 at the end of the ITU-D study period.

5   Proposers

Arab States, United States.

6   Sources of input

1)   Results of related technical progress in relevant ITU-R and ITU-T Study Groups, in particular Working Parties 5D (Question 77) and 5A of Study Group 5 and Working Parties 4A, 4B and 4C of Study Group 4, and in ITU-T in particular Study Group 15 (Question 1) and Study Group 13 (Question 15).

2)   ITU publications on both broadband and IMT.

3)   Relevant reports of national and/or regional organizations in developing and developed countries.

4)   Contributions on experiences with the implementation of relevant networks in developed and developing countries.

4*bis*)   Contributions of Sector Members on the development of broadband access technologies for wired, wireless and satellite.

5)   Relevant inputs from service providers and manufacturers.

7   Target audience

a)   Target audience

Target audience	Developed countries	Developing countries[1]
Telecom policy-makers	Yes	Yes
Telecom regulators	Yes	Yes
Service providers/operators	Yes	Yes
Manufacturers	Yes	Yes

b)   Proposed methods for implementation of the results

The work of the Rapporteur's Group will be conducted and publicized through the ITU-D website as well as through the publication of documents and appropriate liaison statements.

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[1] This includes least developed countries (LDCs), small island developing states (SIDSs), landlocked developing countries (LLDCs), and countries with economies in transition.

8   Proposed methods for handling the Question

The Question will be handled by a Rapporteur's Group of ITU-D Study Group 2.

9   Coordination

In order to coordinate effectively and avoid duplication of activities, the study should take into consideration:

–   outputs from the relevant ITU-T and ITU-R Study Groups;

–   the relevant outputs from ITU-D Questions;

–   inputs from the relevant BDT programme(s);

–   inputs from those involved in the implementation of the study of IMT systems.

10   Relevant programme

Programme 1 will be the relevant programme.

11   Other relevant information

Resolution 43 as revised by WTDC-10 should be taken into consideration.

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