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| **Telecommunication Development Advisory Group (TDAG)**  **25th Meeting, Geneva, 2-5 June 2020** | C:\Users\comas\AppData\Local\Temp\Rar$DRa0.735\jpg\ITU official logo_blue_RGB.jpg |
|  | **Revision 2 to** |
|  | **Document TDAG-20/12-E** |
|  | **20 May 2020** |
|  | **English only** |
| Chairman, ITU-D Study Group 1 | |
| ITU-D STUDY GROUP 1 – ACTIVITIES AND PROGRESS | |
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| **Summary:**  This report presents to TDAG the current status of ITU-D Study Group 1. It provides some highlights from the third meeting of SG1 for the 2018-2021 study period which was held from 17 to 21 February 2020 and the second block of Rapporteur Group meetings held from 23 September to 4  October 2019, and reviews the work plan.  The Rapporteur Groups for all seven SG1 Questions are progressing well towards WTDC expected outputs with significant progress made on the development of draft output reports. At the February 2020 meeting all Questions reviewed updated draft texts for further elaboration and finalization at the next rapporteur group meetings. A highlight from the recent meeting is the release of three annual deliverables related to the work of four ITU-D SG1 questions:   * Question 2/1 on “Considerations about the cost structure of the digital transition, including new services and applications”; * Question 3/1 and Question 4/1 joint deliverable on “Economic impact of OTTs on national telecommunication/ ICT markets”; * Question 5/1 on “Broadband development and connectivity solutions for rural and remote areas”.   The proposed change in dates for the 2021 March SG1 and SG2 (SG2 to be held before SG1) is put forward for the consideration by TDAG.  **Action required:**  TDAG is invited to note this document and provide guidance as deemed appropriate.  **References:**  WTDC Resolution 2 (Rev. Buenos Aires, 2017), Resolution 1 (Rev. Buenos Aires, 2017) | |

1. **Highlights**

Highlights from the **third SG1 meeting** for the 2018-2021 (17-21 February 2020) study period include:

* 132 participants from 49 Member States;
* 134 contributions, including text for draft reports and report chapters, to advance the work;
* 14 incoming liaison statements were received and 6 outgoing liaison statements were agreed and dispatched from the Questions and one from the SG1 plenary jointly with SG2 to be dispatched at a later time;
* Draft Question output reports were shared for all seven SG1 Questions;
* Three ITU-D SG1 annual deliverables related to the work of four ITU-D SG1 Questions were released under the auspices of the Chairman of Study Group 1 to inform the public of the work and to stimulate and encourage further contributions;
* Question 2/1 annual deliverable on “Considerations about the cost structure of the digital transition, including new services and applications”;
* Question 3/1 and Question 4/1 joint annual deliverable on “Economic impact of OTTs on national telecommunication/ ICT markets”;
* Question 5/1 annual deliverable on “Broadband development and connectivity solutions for rural and remote areas”.
* Discussion on innovative financing mechanisms and business models for inclusive digital connectivity held on 17 February 2020 to inspire all the study Questions as they progress their work;
* Discussion held on the linkages between ITU-D study Questions and the activities of the expert groups on indicators (Expert Group on ICT Household Indicators (EGH) and Expert Group on Telecommunication/ICT Indicators (EGTI)). A joint SG1/SG2 liaison statement to EGH and EGTI will further strengthen the collaboration between the groups;
* Coordination concretized to capture Question topics of interest related to WTDC Resolution 9 (Rev. Buenos Aires, 2017), which can be reported using a new template through the study group chairs to TDAG, for the BDT Director to consider. The consolidated report for SG1 Questions is in **Annex 3** and has identified top 5 topics of most interest to membership as listed in Section 4.2.Initial approaches and ideas shared on future topics of study. Such suggestions considered both the future of current study Questions and possible new topics. The 2020 Rapporteur Group meetings will continue the discussions and contributions were solicited for this purpose;
* Discussions held to further advance on the mapping work related to: 1) Intra-sector mapping between ITU-D SG1 and SG2 Questions; 2)Mapping of ITU-D SG1 and SG2 Questions to activities in ITU-R Working Parties; and 3) Mapping of ITU-D SG1 and SG2 Questions of interest to work items and Questions in ITU-T study groups. It was however noted that the input from ITU-D study groups and shared with TDAG through a joint liaison statement in 2019 and further shared with the Inter-Sector Coordination Group (ISCG) on issues of mutual interest had not been used as the baseline reference when ITU-T study groups and TSAG continued their work. It was noted that this matter must be cleared up in the work between the sectors and the Secretariat. A revised working document for the mapping at the level of study groups and Questions that will be used for this coordination between the Secretariats can found in **Annex 6**;
* Proposal from Brazil to hold a Question 6/1 related workshop in Brasilia (Brazil) from 1 to 3 July 2020 on the topic of “Digital consumer trends”, was endorsed. The workshop would also serve to finalize the draft Question 6/1 annual deliverable on “Unwanted calls – an overview of challenges and strategies”;
* Discussions on a dedicated session on the work of ITU-D study groups to be held during the 2020 edition of WSIS Forum further advanced as well as topical sessions related to study Questions.

Highlights from the **second block of SG1 Rapporteur Group meetings** (23 September-4 October 2019) include:

* 123 participants from 44 Member States and Palestine, participated in the Rapporteur Group meetings and associated sessions/workshops during the two weeks of meetings;
* 139 contributions to progress the work and drafting of deliverables;
* 24 incoming liaison statements were received, and 14 outgoing liaison statements dispatched following the meetings;
* The meetings refined the outlines of SG1 Question deliverables and continued drafting and exchanging on chapters of the reports, guidelines and case studies;
* 4 topical sessions/workshops and capacity building sessions were held on topics related to SG1 Questions 1/1, 3/1, 4/1, Q5/1 and 7/1 in order to raise awareness and enlarge the field of knowledge on several Question items under study. A joint SG1/SG2 tutorial on AI related to all study Questions was also organized during the SG2 rapporteur group meetings.
* To facilitate coordination and further strengthen collaboration between the two ITU-D study groups as well as with the study groups in the other sectors, work on three sets of mapping tables evolved during the meetings held.
* The groups further discussed ways in which synergies with the WSIS platform could be explored.

1. **Overview of the work of ITU-D Study Group 1**

ITU-D Study Group 1 (SG1) examines issues relating to the enabling environment for the development of telecommunications/ICTs. In this context, SG1 is responsible for seven substantive topics, which include national telecommunication/ICT policy, regulatory, technical and strategy development which best enables countries to benefit from the impetus of telecommunications/ICTs, access to telecommunications/ICTs for rural and remote areas, and economic policies and methods of determining costs of services related to national telecommunications/ICTs. SG1 also considers matters related to the migration and adoption of digital broadcasting and implementation of new services, consumer protection, and access to telecommunication/ICT services by persons with disabilities and other persons with specific needs.

* 1. **2019 Study Group 1 Rapporteur Group meetings (23 September-4 October 2019)**

The 2019 Study Group 1 Rapporteur Group meetings elaborated further the outlines of SG1 Question deliverables and continued drafting and exchanging on chapters of the reports, guidelines and case studies. The meetings received 139 contributions to progress the work and advance the drafting of deliverables, this included 24 incoming liaison statements. 14 outgoing liaison statements were dispatched following the meetings.

In conjunction with the meetings, four dedicated sessions and capacity development opportunities were held on topics related to the Questions to raise awareness and enlarge the field of knowledge on several Question items under study and contribute to the development of the output reports for the SGs Questions. Outputs of the workshops aim also to serve as a basis for the development of new annual deliverables and draft guidelines in 2020.

A topical session on [broadband development in rural areas](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/session-Q5-1-sept19.aspx) was held in conjunction with the Q5/1 meeting, a session on the [implementation of projects related to broadband deployment and broadband access technologies](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/session-Q1-1-sept19.aspx) related to Q1/1 work, as well as a knowledge development session on ICT accessibility fundamentals during the Q7/1 meeting. In implementing the proposal that had been shared with the 2019 SG1 meeting, a joint Q3/1 and Q4/1 session was held on the [economic impact of OTT on national telecommunication/ICT markets](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/joint-session-Q3-1-Q4-1_oct19.aspx).

A SG1/SG2 [tutorial on AI and emerging technologies](http://itu.int/go/L2IQ), allowed participants to learn more about what Atificial Intelligence (AI) is and what it is not, as well as the opportunities and challenges to be aware of. Trainers and speakers from academia, the private sector and government agencies shared their insights, while the discussions highlighted some of the questions regarding intellectual property rights, ethics and accountability that remain to be addressed.

Following the liaison statement from the Chairmen of ITU-D SG1 and SG2 to TDAG on **mapping work** related to ITU-D Question-to-Question, ITU-D to ITU-T, and ITU-D to ITU-R mapping to support collaboration, work on mapping tables further evolved during the meetings ([1/265](https://www.itu.int/md/D18-SG01-C-0265/) and [TDAG-19/41](https://www.itu.int/md/D18-TDAG24-C-0041)). It was agreed at the level of Inter Sector Coordination Group (ISCG) that all mapping tables related to inter-sector collaboration, be stored as a living document in a common repository. Updates to the mapping following from meetings held will be maintained through coordination between the ISCG and representatives of the three ITU Bureaus.

During the meetings, the groups discussed ways in which **synergies with the WSIS platform** could be explored. Document [SG1RGQ/258](https://www.itu.int/md/D18-SG01.rgq-C-0258) shared for information, benefits and opportunities that collaboration between ITU-D study groups and the WSIS platform can bring (contacting authors of projects in the WSIS Stocktaking Database for consideration in ITU-D SGs, potential participation and contributions by WSIS participants in ITU-D SGs, etc.). The rapporteur groups also considered organizing topical workshops at 2020 WSIS Forum to attract contributions and input while raising awareness of ongoing work. Discussions were held on a dedicated session during the forthcoming WSIS Forum focused on the work of ITU-D study groups to increase opportunities for collaboration with the WSIS platform.

* 1. **Third Study Group 1 meeting for the study period (17-21 February 2020)**

The third meeting of Study Group 1 took place from 17 to 21 February 2020 with 132 delegates from 49 countries present[[1]](#footnote-2). The BDT Director, Ms Doreen Bogdan Martin[[2]](#footnote-3), and the Chairman of Study Group 1, Ms Fleur Regina Assoumou Bessou (Republic of Cote d’Ivoire), were joined by all but three of the twelve appointed SG1 Vice-Chairmen: Mr Peter Ngwan Mbengie (Cameroon), Mr Amah Vinyo Capo (Togo), Mr Roberto Mitsuake Hirayama (Brazil), Mr Víctor Antonio Martínez Sánchez (Paraguay), Mr Ahmed Abdel Aziz Gad (Egypt), Ms Sameera Belal Momen Mohammad (Kuwait), Mr Yasuhiko Kawasumi (Japan), Mr Vadym Kaptur (Ukraine), and Ms Anastasia Sergeyevna Konukhova (Russian Federation) who had been appointed by TDAG in 2019. **Annex 1** to this report shares the SG1 management team.

Together the team guided SG1 through the 134 contributions submitted to advance the work, including 14 liaison statements from the two other ITU Sectors. 6 outgoing liaison statements were agreed and dispatched from the Questions and one from the SG1 plenary jointly with SG2 to be dispatched at a later time.

Statistics summarizing participation by region, contributions by Question, fellowships and other data may be found in document [1/ADM/24 + Annex](https://www.itu.int/md/D18-SG01-ADM-0024/).

The BDT Director and the SG1 Chair encouraged the membership to continue sending their experts to the study groups to share their experiences, lessons learned and specific case studies so that these could contribute to the collective knowledge base. The findings from the experiences, challenges and innovative applications, the BDT Director noted, can support informed decision-making. The wealth of knowledge that constitute the case studies can further feed into projects, regional initiatives, reports, handbooks and studies.

**Three ITU-D SG1 annual deliverables** related to the work of four ITU-D SG1 questions were released under the auspices of the Chairman of Study Group 1 to inform the public of the work and to stimulate and encourage further contributions.

* Question 2/1 annual deliverable on “Considerations about the cost structure of the digital transition, including new services and applications” ([305 + presentation in Annex](https://www.itu.int/md/D18-SG01-C-0305/));
* Question 3/1 and Question 4/1 joint annual deliverable on “Economic impact of OTTs on national telecommunication/ ICT markets”([1/339 + presentation in Annex](https://www.itu.int/md/D18-SG01-C-0339/));
* Question 5/1 annual deliverable on “Broadband development and connectivity solutions for rural and remote areas” ([303 + presentation in Annex](https://www.itu.int/md/D18-SG01-C-0303/)).

On the first day of the SG1 meeting, the rapporteurs presented the main findings of the work of the groups shared in the three annual deliverables to encourage debate on the topic. In addition, throughout the week, drafts of additional annual deliverables were presented for further refinement.

The annual deliverables were released to provide ITU membership with timely information on important issues for study group participants and others, to inform the public of the ongoing work, and to stimulate and encourage further contributions on these topics as the concerned study Questions continue their work in the study period. These reports, like the annual deliverables from 2019, will be published on the ITU-D study group website under the auspices of the Chairmen of Study Group 1 and 2 respectively, under the section titled “Ongoing Work” ([website for ongoing work](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/OngoingWork.aspx)). Annual deliverables produced by the study groups, as encouraged by WTDC-17, are new in the Development Sector and not yet covered in detail in Resolution 1 (ITU-D rules of procedure). Moreover, the final output reports of the study Questions may elaborate further, as per their specific mandates, the concepts and matters raised in the annual deliverable.

**A discussion on innovative financing mechanisms and business models for inclusive digital connectivity** was held at the outset of the SG1 meeting, on 17 February 2020, to explore concrete approaches and concepts that enable innovative financing mechanisms and business models in order to ensure sustainable investments and financing for digital connectivity. As the idea for this discussion came from the requests and proposals that were put forward during rapporteur group meetings in 2019 as a pertinent cross-cutting theme, it was hoped that the presentations and discussions would inspire all the study Questions as they progress their work ([website](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/financing-connectivity-feb20.aspx)).

During the week of meetings, significant progress made on the development of the **draft Question output reports.** All Questions have draft texts available and the groups aim to have close to final versions of their reports, available for consideration at the rapporteur group meetings in September/October 2020.

TDAG in 2019 requested that relevant ICT statistics should be available to the study groups. Following the request, with an aim to foster closer **collaboration and exchanges between the expert groups working on indicators and ITU-D study groups/rapporteur groups**, the study groups discussed the next steps to take in order to respond to the two liaison statements from Expert Group on ICT Household Indicators (EGH)(document [1/274](https://www.itu.int/md/d18-sg01-c-0274)) and Expert Group on Telecommunication/ICT Indicators (EGTI)(document [1/273](https://www.itu.int/md/d18-sg01-c-0273)) and related contributions from the membership.

Through the discussions the rapporteur groups were asked to consider within their groups a number of linkages that could be shared with the expert groups. Rapporteur groups were invited to 1) consider the draft mapping example and make necessary changes, express what indicators and data they know are already captured in other surveys and/or that they already use for their work (like data gathered through the regulatory survey), and 2) requirements they have concerning data needs for their current studies and possible future work. **Annex 7 Tables 1, 2 and 3** share initial proposals on what this could look like. A joint reply liaison statement from SG1 and SG2 will further strengthen the collaboration between the groups.

During the meetings in 2019, especially the following Questions were deemed to have information on spectrum needs that would contribute to the **implementation of WTDC Resolution 9 (Rev. Buenos Aires, 2017)**: Q1/1 (broadband), Q2/1 (broadcasting), Q5/1 (ICTs for rural and remote areas), and Q7/1 (accessibility). Coordination concretized during the 2020 SG1 meeting to capture Question topics of interest), which can be reported using a new template through the study group chairs to TDAG, for the BDT Director to consider. The consolidated report for SG1 Questions is in **Annex 3** and has identified top 5 topics of most interest to membership as listed in Section 4.2.

Initial approaches and ideas shared on **future topics of study**. Such suggestions considered both the future of current study Questions and possible new topics. It was expressed during the meeting that future Questions should be as unique as possible to avoid overlap, , should consider future development and needs, and should not be restricted to the current structure of the Questions. The 2020 Rapporteur Group meetings will continue the discussions and contributions were solicited for this purpose. The preliminary views of Rapporteur Groups, after initial consultations, are reflected in **Annex 8**. Further consultations and discussions will be held at the next Rapporteur Group meetings in September 2020.

As has become customary during the annual meetings, representatives from the **other two Sectors** shared an update on current items in their work that may be of interest to members participating in ITU-D study group meetings. TSB shared updates on emerging topics in standardization and preparations for WTSA-20 ([1/395 + Annex](https://www.itu.int/md/D18-SG01-C-0395)) and BR shared an update on WRC-19 and RA-19 outcomes ([1/396 + Annex](https://www.itu.int/md/D18-SG01-C-0396) (Rev.1)). Further to a general information request that was raised during the presentation on TSB work, an additional overview of the exploratory work that TSB is undertaking on an AI-based mapping solution was shared. The solution seeks to map ITU-T work (ITU-T Recommendations, technical specifications, etc.) to a selected SDG, using semantic relevancy ([1/TD/25](https://www.itu.int/md/D18-SG01-200321-TD-0025/)).

Discussions were held to further advance on the **mapping work** related to: 1) Intra-sector mapping between ITU-D SG1 and SG2 Questions; 2)Mapping of ITU-D SG1 and SG2 Questions to activities in ITU-R Working Parties; and 3) Mapping of ITU-D SG1 and SG2 Questions of interest to work items and Questions in ITU-T study groups. It was however noted that the input from ITU-D study groups and shared with TDAG through a joint liaison statement in 2019 and further shared with the Inter-Sector Coordination Group (ISCG) on issues of mutual interest had not used as the baseline reference when ITU-T study groups and TSAG continued their work. It was noted that this matter must be cleared up in the work between the sectors and the Secretariat.

Proposal from Brazil to hold a Question 6/1 related workshop in Brasilia (Brazil) from 1 to 3 July 2020 on the topic of “Digital consumer trends”, was endorsed. The workshop would also serve to finalize the draft Question 6/1 annual deliverable on “Unwanted calls – an overview of challenges and strategies”.

Discussions on a dedicated session on the work of ITU-D study groups to be held during the 2020 edition of WSIS Forum further advanced as well as topical sessions related to study Questions.

* 1. **Reports of Rapporteur Group meetings**

Reports of the individual Rapporteur Group meetings that have been held in 2019 and 2020 since the last TDAG meeting can be found at the following links:

* Question 1/1 available here: ([September 201](https://www.itu.int/md/D18-SG01.rgq-R-0008)9)([February 2020](https://www.itu.int/md/D18-SG01-R-0017))
* Question 2/1 available here: ([September 201](https://www.itu.int/md/D18-SG01.rgq-R-0009)9)([February 2020](https://www.itu.int/md/D18-SG01-R-0018))
* Question 3/1 available here: ([September 2019](https://www.itu.int/md/D18-SG01.rgq-R-0010))([February 2020](https://www.itu.int/md/D18-SG01-R-0019))
* Question 4/1 available here: ([October 201](https://www.itu.int/md/D18-SG01.rgq-R-0011)9)([February 2020](https://www.itu.int/md/D18-SG01-R-0020))
* Question 5/1 available here: ([September 201](https://www.itu.int/md/D18-SG01.rgq-R-0012)9)([February 2020](https://www.itu.int/md/D18-SG01-R-0021))
* Question 6/1 available here: ([September 2019](https://www.itu.int/md/D18-SG01.rgq-R-0013))([February 2020](https://www.itu.int/md/D18-SG01-R-0022))
* Question 7/1 available here: ([October 201](https://www.itu.int/md/D18-SG01.rgq-R-0014)9)([February 2020](https://www.itu.int/md/D18-SG01-R-0023))

1. **Strategy and work plan for Study Group 1**

Study Group 1 works in accordance with the scope of work defined in Resolution 2 (Rev. Buenos Aires, 2017) “Establishment of study groups” to reach its expected results for the 2018-2021 study period. The first meeting in 2018 endorsed the four-year SG1 work plan, shown in **Annex 2** to this report. At the third meeting for the study cycle the SG1 Chair emphasized her vision about the activities and goals of SG1 as a means to implement the mandate, called the “3I Vision”, which includes three pillars: 1) More **Interaction** between stakeholders in the work (contributions, experience sharing, etc.); 2) More **Innovation** in the working methods; and, 3) More **Implementation** of the results of ITU-D Study Group outcomes by Member States.

Over the past year, the ITU-D study groups attracted a record number of contributions, with case studies and lessons learned that contribute not only to the ongoing work of the Questions but that can already be utilized by countries who are planning and/or undertaking work in those areas. They also explored ways in which to create constructive debate on topics relevant to the membership and beyond through topical workshops and tutorials held in conjunction with the study group and rapporteur meeting to enrich the work of the Questions.

1. **Collaboration and coordination with ITU-D Study Group 2 and the other Sectors on matters of shared interest**
   1. **Mapping between ITU-D study group Questions and between work in ITU-D study groups to work in the other sectors**

During the meetings discussions were held to further advance the mapping work related to: 1) Intra-sector mapping between ITU-D SG1 and SG2 Questions; 2) Mapping of ITU-D SG1 and SG2 Questions to activities in ITU-R Working Parties; and 3) Mapping of ITU-D SG1 and SG2 Questions of interest to work items and Questions in ITU-T study groups. Document [1/265](https://www.itu.int/md/D18-SG01-c-0265) shares for information the liaison statement that the ITU-D SG1 and SG2 Chairmen sent to TDAG on mapping work related to ITU-D Question-to-Question, ITU-D to ITU-T, and ITU-D to ITU-R mapping following the 2019 meetings. The understanding was that the mappings would be shared by TDAG through the Inter Sector Coordination Group (ISCG) with the other sectors to contribute to the common mapping work.

The current draft matrix of relationships and interactions between study Questions in ITU-D SG1 and ITU-D SG2 is shared in **Annex 4** as a reference to identify areas of possible areas of overlap and opportunities where collaboration could be further strengthened. **Annex 5** further shows how the intra-sector mapping work can help to avoid duplication in the work of the Question.

The February 2020 SG1 and SG2 meetings had received in document [1/269 + Annexes](https://www.itu.int/md/D18-SG01-C-0269) (TSAG) a liaison statement with feedback from TSAG on the intersectoral coordination/mapping. It was however noted that the input from ITU-D study groups that had been shared with TDAG through a joint liaison statement in 2019, and further shared with the Inter-Sector Coordination Group on issues of mutual interest, had not been used as the baseline reference when ITU-T study groups and TSAG continued their work in 2019. It was noted that this matter must be cleared up in the work between the sectors and the Secretariat.

A new version of the matrix between ITU-D and ITU-T Questions that consolidates the changes proposed from both ITU sectors can be found in **Annex 6** of this report. These changes are based on the ISCG baseline, and incorporate: 1) updates proposed by the ITU-D SG1 and SG2 rapporteur groups following their meetings in September and October 2019; and 2) differences between the mapping matrix included in the liaison statement from TSAG and the ISCG baseline. It should be noted that some of the differences were proposed by TSAG *before* the ISCG baseline was created and may therefore be superseded. A revised working document for the mapping at the level of study groups and Questions that will be used for this coordination between the Secretariats can be found in **Annex 6**.It is proposed that a revised version be shared with ISCG to incorporate the updates from the ITU-D rapporteur groups and only the new changes from TSAG *after* the ISCG baseline was created.

* 1. **Involvement and contribution of ITU-D study groups toward the implementation of WTDC Resolution 9 (Rev. Buenos Aires, 2017)**

During the meetings, especially the Rapporteur Group meetings in September 2018, the status of implementation of WTDC Resolution 9 (Rev. Buenos Aires, 2017) and its removal by WTDC-17 from the ITU-D study groups, raised questions and concerns. As aspects of spectrum management relate to several SG1 study Questions, clarity was sought on the next steps on the implementation and how the study group could address this. Concern from membership was expressed that no progress had been made following WTDC-17. Reporting to the meeting on a proposed approach for addressing the complex aspects of implementation of the Resolution by BDT, which requires close collaboration with the Radiocommunication Bureau (BR), was provided and it was noted that subsequent information would be shared. As for a possible contribution to that work by ITU-D study groups, one suggestion was that each rapporteur, together with assigned vice-rapporteurs, gather all spectrum-related aspects, and especially requirements expressed, following each meeting and share these regularly with the respective Chairman. At the TDAG in 2019, the contribution of ITU-D study groups to identifying the needs of developing countries stated in Resolution 9 was further emphasized. To this end, a vice-chairman from SG1 (Mr Roberto Hirayama (Brazil) and a vice-chairman from SG2 (Ms Nora Basher (Sudan) will coordinate WTDC Resolution 9 issues with the contact points for each study Question. Moreover, at each annual study group meeting, with support from the BDT Focal Point for Resolution 9, these vice-chairmen will submit a summary of the compiled findings on WTDC Resolution 9 issues to the ITU-D SG1 and SG2 Chairs, who will transmit them to the BDT Director. The BDT Director can then coordinate with the BR Director as appropriate. It was noted in TDAG in 2019 that the summary provided by the study group chairs can also serve as a basis for the required contribution to TDAG on Resolution 9 implementation activities.

Coordination further concretized during the 2020 SG1 meeting to capture Question topics of interest which can be reported using a new template through the study group chairs to TDAG for the BDT Director to consider. The consolidated report of ITU-D SG1 Vice-Chairman Mr Roberto Hirayama for SG1 Questions is in **Annex 3**. From the data gathered from contributions, it can be noted that the following are the top 5 topics of most interest to membership (in order of interest):

* Emerging technologies and approaches in using spectrum.
* Transition to digital terrestrial television broadcasting.
* Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development.
* Economic and financial aspects of spectrum management.
* Assistance in identifying the most efficient ways to utilize the digital dividend.

These topics should be considered by the documents/outputs referred to in WTDC Resolution 9 (Rev. Buenos Aires, 2017) in “*resolves to instruct the Director of the Telecommunication Development Bureau, in close consultation with the Director of the Radiocommunication Bureau* 1”, due to the fact that these reflect the interest of members, as requested by “*instructs the Director of the Telecommunication Development Bureau* 2”.

1. **Work of the ITU Coordination Committee for Terminology (ITU CCT) of interest to ITU-D**

In accordance with WTDC Resolution 86 (Buenos Aires, 2017) on the “Use in the ITU Telecommunication Development Sector of the languages of the Union on an equal footing” TDAG in 2018 appointed SG1 vice-chairman Mr Peter Mbengie (Cameroon) and SG2 vice-chairman Ms Ke Wang (People’s Republic of China) to be ITU-D’s representatives on the ITU Coordination Committee for Terminology (ITU CCT). Mr Mbengie in his report to the SG1 plenary highlighted some of the main aspects of the meeting on 17 June 2019 that may be of interest to ITU-D. Two definitions stood out, the request for a high-speed broadband definition which had come from ITU-D, and the broadband access definition from ITU-T SG12 and SG13, along with others related to the smart society, broadcasting, digital financial services, etc. ITU CCT noted that as the terms concern the classification of different types of broadband and that technologies evolving fast, providing specific values was not advisable at this time.

Moreover, ITU CCT asked the groups in the sectors to bring suggested new terms to the ITU CCT in advance of their approval in recommendations and reports so that they can be discussed. ITU-D in its work must be aware of the ITU terminology database and its usefulness when preparing reports and other deliverables. Mr Mbengie further noted that with regards to the discussion on a definition of “community networks” as this relates to the work within specific ITU- D study Questions, a request for input and ideas from the other sectors directly or through the ITU CCT could be considered. Finally, it is important to note that the Radiocommunication Assembly in 2019 revised Resolution ITU-R 36-5 on “Coordination of vocabulary in the six official languages of the Union on an equal footing in the ITU Radiocommunication Sector”. As Resolution ITU-R 36-5 is now updated with text from the Plenipotentiary Conference in 2018, among other updates, it may be a useful reference also as ITU-D prepares for WTDC-21.

1. **Collaborative tools**

In line with the approach expressed by WTDC-17, the enhancement and further development of [collaborative tools](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/collaborative-tools.aspx) to facilitate collaborators’ electronic participation in the work of the ITU-D study groups, will continue. While [mailing lists](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/collaborative-tools.aspx) allow for the exchange of e-mails amongst experts interested in the topics under study, the [collaborative SharePoint sites](https://extranet.itu.int/itu-d/studygroups/SitePages/Home.aspx) provide a virtual meeting place for participants, with a calendar of the activities of the study group, announcements, and a document exchange area to facilitate the work in between meetings. Dedicated sub-sites for each Question as well as an area exclusively for the management teams of the study groups are also available. An active user account with TIES access is required to access all these services. Study group participants are encouraged to explore the tools and provide any feedback to the Secretariat to assist in their improvement.

1. **Conclusion and way forward**

To continue the work, the 2020 Rapporteur Group meetings will take place in Geneva from 21 September to 2 October and the final SG1 meeting for the study period from 22 to 26 March 2021 ([1/ADM/2(Rev.3)](https://www.itu.int/md/D18-SG01-ADM-0002/en)). During the joint SG1/SG2 management team meeting on 23 February 2020 it was proposed that the final ITU-D SG1 meeting for the 2018-2021 study period swap dates with SG2, to be held from 22 to 26 March 2021 instead of one week earlier (15-19 March 2021) as initially planned.

The proposed change in dates for the 2021 March SG1 and SG2 (SG2 to be held before SG1) is put forward for the consideration by TDAG.

Moreover, the Rapporteur Group meetings have been clustered together to allow rapporteurs, vice-rapporteurs and active participants to attend more than one meeting, share ideas across related topics, convene drafting groups, meet with their focal points, BDT staff and the chairman and vice-chairmen of the study group in attendance.

Members are encouraged to review the current draft reports and their chapters and submit their input for the September/October Rapporteur Group meetings to consider. In addition, proposals for future study topics are also encouraged and very welcome.

Annex 1: Appointed Chairman, Vice-Chairmen, Rapporteurs and Vice-Rapporteurs of ITU-D Study Group 1 Questions for the 2018-2021 period

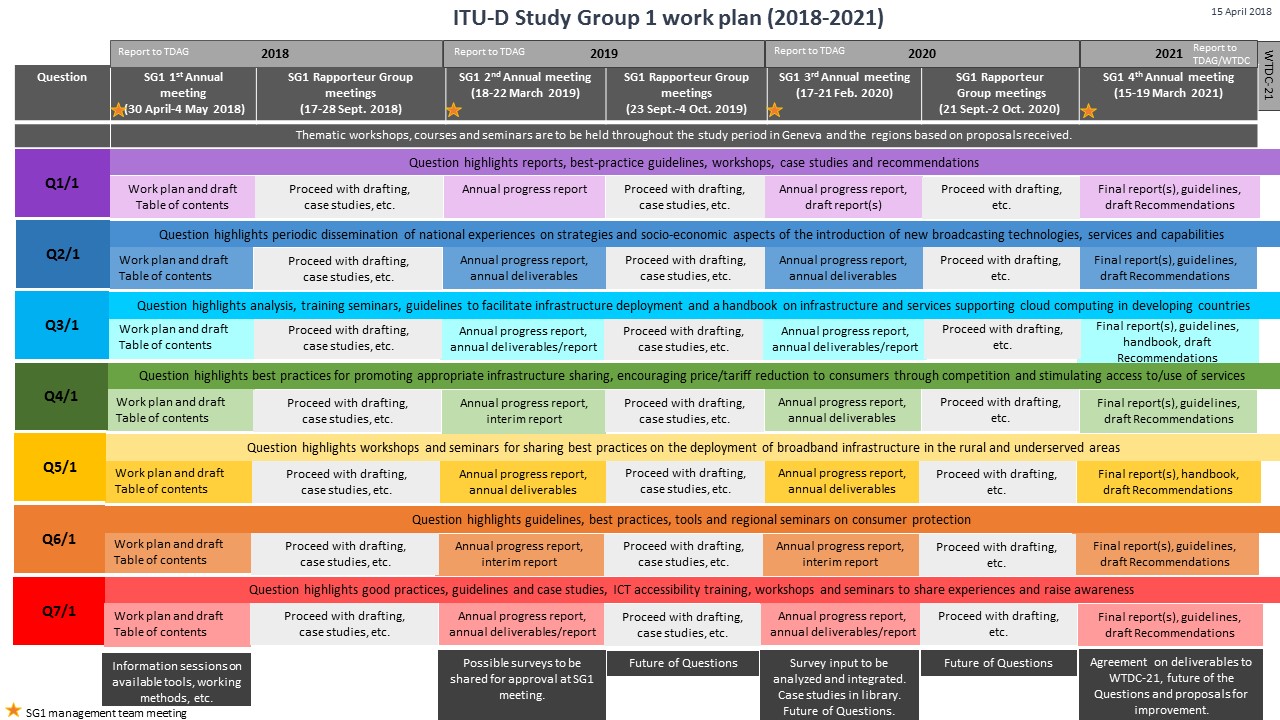
Chairman and vice-chairmen (also available at: <https://www.itu.int/net4/ITU-D/CDS/sg/chairmen.asp?lg=1&sp=2018>)

|  |  |
| --- | --- |
|  | **ITU-D STUDY GROUP 1** |
| **Chairman** | Ms Regina Fleur Assoumou BESSOU (Côte d’Ivoire) |
| **Vice-Chairmen** | Mr Peter Ngwan MBENGIE (Cameroon) |
| Mr Amah Vinyo CAPO (Togo) |
| Mr Roberto Mitsuake HIRAYAMA (Brazil) |
| Mr Víctor Antonio MARTÍNEZ SÁNCHEZ (Paraguay) |
| Mr Ahmed Abdel Aziz GAD (Egypt) |
| Ms Sameera Belal Momen MOHAMMAD (Kuwait) |
| Mr Yasuhiko KAWASUMI (Japan) |
| Mr Sangwon KO (Republic of Korea) |
| Mr Almaz TILENBAEV (Kyrgyzstan) |
| Ms Anastasia Sergeyevna KONUKHOVA (Russian Federation) |
| Mr Vadym KAPTUR (Ukraine) |
| Ms Amela ODOBASIC (Bosnia and Herzegovina) |
| Mr Krisztián STEFANICS (Hungary)*(Stepped down in October 2018)* |

List of (Co-)Rapporteurs and Vice-Rapporteurs (also available at:  [https://www.itu.int/net4/ITU-D/CDS/sg/rapporteurs.asp?lg=1&sp=2018)  
(Updated](%20https://www.itu.int/net4/ITU-D/CDS/sg/rapporteurs.asp?lg=1&sp=2018)(Updated) on 21 February 2020)

| **ITU-D Question** | **Role** |  | **Firstname** | **Lastname** | **Country** | **Region** | **Organization** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Question 1/1** | **Co-Rapporteur** | Mr | Fred | Ongaro | Kenya | Africa | Administration |
| **Question 1/1** | **Co-Rapporteur** | Mr | Vadim | Kaptur | Ukraine | CIS countries | Administration |
|  | Vice-Rapporteur | Mr | Issoufi K. | Maiga | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Luc Servais | Missidimbazi | Congo | Africa | Administration |
|  | Vice-Rapporteur | Mr | Charles Zoë | Banga | Central African Rep. | Africa | Administration |
|  | Vice-Rapporteur | Mr | Abdoulaye | Ouedraogo | Burkina Faso | Africa | Administration |
|  | Vice-Rapporteur | Ms | Aminata Niang | Diagne | Senegal | Africa | Administration |
|  | Vice-Rapporteur | Mr | Jean Marie | Maignan | Haiti | Americas | Administration |
|  | Vice-Rapporteur | Mr | Turhan | Muluk | United States | Americas | Intel Corporation |
|  | Vice-Rapporteur | Mr | Mohamed Amine | Benziane | Algeria | Arab States | Administration |
|  | Vice-Rapporteur | Mr | Karma | Jamyang | Bhutan | Asia & Pacific | Administration |
| Vice-Rapporteur has stepped down in 2019. | Vice-Rapporteur | Mr | Chunfei | Zhang | People’s Republic of China | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Qian | Zhang | People’s Republic of China | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Ümit Nevruz | Özdemir | Turkey | Europe | Türk Telekom |
|  | Vice-Rapporteur | Ms | Jane | Coffin |  | World/Multi-Regional | Internet Society (ISOC) |
| **Question 2/1** | **Rapporteur** | Mr | Roberto Mitsuake | Hirayama | Brazil | Americas | Administration |
|  | Vice-Rapporteur | Mr | Siaka | Coulibaly | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Hassan | Issaka | Chad | Africa | Administration |
|  | Vice-Rapporteur | Ms | Laetitia Kilega Lega | Lubaga | Madagascar | Africa | Administration |
|  | Vice-Rapporteur | Mr | Jean Marie | Maignan | Haiti | Americas | Administration |
|  | Vice-Rapporteur | Ms | Jinane | Karam | Lebanon | Arab States | Administration |
|  | Vice-Rapporteur | Mr | Gang | Wu | People’s Republic of China | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Gülcihan | Kurnaz | Turkey | Europe | Türk Telekom |
| **Question 3/1** | **Rapporteur** | Mr | Nasser | Kettani | United States | Americas | Administration |
|  | Vice-Rapporteur | Mr | Charles Zoë | Banga | Central African Rep. | Africa | Administration |
|  | Vice-Rapporteur | Mr | Franklin | Makokha | Kenya | Africa | Administration |
|  | Vice-Rapporteur | Mr | Abdoulaye | Ouedraogo | Burkina Faso | Africa | Administration |
|  | Vice-Rapporteur | Mr | Ahmadou Dit | Adi Cisse | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Luc Servais | Missidimbazi | Congo | Africa | Administration |
|  | Vice-Rapporteur | Mr | Serigne Abdou | Lahatt Sylla | Senegal | Africa | Administration |
|  | Vice-Rapporteur | Mr | Henri Numbi | Ilunga | Democratic Republic of Congo | Africa | Administration |
|  | Vice-Rapporteur | Mr | Christopher | Hemmerlein | United States | Americas | Administration |
|  | Vice-Rapporteur | Mr | Geraldo | Neto | United States | Americas | TMG, Inc. |
|  | Vice-Rapporteur | Mr | Darshan | Thapa | Bhutan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Zhen | Zhang | People’s Republic of China | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Ram Babu | Jatav | India | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Arseny | Plossky | Russian Federation | CIS countries | Administration |
|  | Vice-Rapporteur | Ms | Beyhan Aygün | Akyüz | Turkey | Europe | Türk Telekom |
| **Question 4/1** | **Rapporteur** | Mr | Arseny | Plossky | Russian Federation | CIS countries | Administration |
|  | Vice-Rapporteur | Mr | Ibrahima | Kone | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Talent | Munyaradzi | Zimbabwe | Africa | Administration |
|  | Vice-Rapporteur | Ms | Nomen’anjara Gillucia | Rafalimanana | Madagascar | Africa | Administration |
|  | Vice-Rapporteur | Mr | Huguens | Previlon | Haiti | Americas | Administration |
|  | Vice-Rapporteur | Mr | Mohammed | AbdulKadhim Ali | Iraq | Arab States | Administration |
|  | Vice-Rapporteur | Mr | Haider Abd | Al Hassan Yahia | Iraq | Arab States | Administration |
|  | Vice-Rapporteur | Mr | Emanuele | Giovannetti | United Kingdom | Europe | Anglia Ruskin University |
| Vice-Rapporteur  has stepped down in 2019. | Vice-Rapporteur | Mr | Rafael | Gonzalez-Galarreta | Spain | Europe | Axon Partners Group Consulting |
|  | Vice-Rapporteur | Mr | Jorge | Martinez | Spain | Europe | Axon Partners Group Consulting |
|  | Vice-Rapporteur | Mr | Ugur | Kaydan | Turkey | Europe | Administration |
|  | Vice-Rapporteur | Ms | Gevher Nesibe | Tural Tok | Turkey | Europe | Türk Telekom |
|  | Vice-Rapporteur | Mr | Wesam M. | Sedik | Egypt | Arab States | Administration |
| **Question 5/1** | **Co-Rapporteur** | Ms | Caecilia | Nyamutswa | Zimbabwe | Africa | Administration |
| **Question 5/1** | **Co-Rapporteur** | Mr | Khalil | AlSobhi | Saudi Arabia | Arab States | Administration |
|  | Vice-Rapporteur | Mr | Cissé | Kane |  | Africa | African Civil Society |
|  | Vice-Rapporteur | Ms | Stella | Kipsaita | Kenya | Africa | Administration |
|  | Vice-Rapporteur | Ms | Justina Tumaini | Mashiba | Tanzania | Africa | Administration |
|  | Vice-Rapporteur | Mr | Oumar | Sidi Aly | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Babou | Sarr | Senegal | Africa | Administration |
|  | Vice-Rapporteur | Mr | Edva | Altemar | Haiti | Americas | Administration |
|  | Vice-Rapporteur | Mr | Turhan | Muluk | United States | Americas | Intel Corporation |
|  | Vice-Rapporteur | Mr | Yasuhiko | Kawasumi | Japan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Ja Heung | Koo | Korea (Rep. of) | Asia & Pacific | Administration |
| Vice-Rapporteur  has stepped down in 2020. | Vice-Rapporteur | Mr | Karma | Tenzin | Bhutan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Li | Zhang | People’s Republic of China | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Karma | Jamyang | Bhutan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Hande | Bayrak | Turkey | Europe | Türk Telekom |
| **Question 6/1** | **Rapporteur** | Mr | Jinqiao | Chen | People’s Republic of China | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Issiaka | Alhabibou | Mali | Africa | Administration |
|  | Vice-Rapporteur | Ms | Caecilia | Nyamutswa | Zimbabwe | Africa | Administration |
|  | Vice-Rapporteur | Mr | Issouf | Soulama | Burkina Faso | Africa | Administration |
|  | Vice-Rapporteur | Mr | Edva | Altemar | Haiti | Americas | Administration |
|  | Vice-Rapporteur | Ms | Elisa Vieira | Leonel | Brazil | Americas | Anatel |
|  | Vice-Rapporteur | Mr | Laith | Draghmeh | State of Palestine | Arab States | Administration |
|  | Vice-Rapporteur | Ms | Archana Goyal | Gulati | India | Asia & Pacific | Adminstration |
|  | Vice-Rapporteur | Mr | Mehmet Alper | Tekin | Turkey | Europe | Administration |
| **Question 7/1** | **Rapporteur** | Ms | Amela | Odobašić | Bosnia and Herzegovina | Europe | Administration |
|  | Vice-Rapporteur | Mr | Abdoulaye | Dembele | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Lamine Mahamadou | Diallo | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Godfrey | Muhatia | Kenya | Africa | Administration |
|  | Vice-Rapporteur | Mr | Issouf | Soulama | Burkina Faso | Africa | Administration |
|  | Vice-Rapporteur | Ms | Rachel Kalala | Kabedi | Democratic Republic of Congo | Africa | Administration |
|  | Vice-Rapporteur | Ms | Ileana Gama | Benítez | Mexico | Americas | Administration |
|  | Vice-Rapporteur | Ms | Andrea | Saks | United States | Americas | Administration |
|  | Vice-Rapporteur | Ms | Mina Seonmin | Jun | Korea (Rep. of) | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Maryam Tayefeh | Mahmoudi | Iran (Islamic Republic of) | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Mitsuji | Matsumoto | Japan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Yinghua | Wu | People’s Republic of China | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Anastasia Sergeyevna | Konukhova | Russian Federation | CIS | Administration |
|  | Vice-Rapporteur | Mr | George Anthony | Giannoumis | Norway | Europe | Oslo and Akershus University College of Applied Sciences |

Annex 2: ITU-D Study Group 1 work plan



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**Annex 3: Possible topics of interest to the work of WTDC Resolution 9, for discussion, presented in a consolidated report as input for the implementation of Resolution 9**

The consolidated report prepared by ITU-D SG1 Vice-Chairman Mr Roberto Hirayama is detailed below.

**Background**

During the last World Telecommunication Development Conference (WTDC-17) updates to Resolution 9 – “Participation of countries, particularly developing countries, in spectrum management” were discussed and adopted. It can be highlighted that the updated Resolution resolved the following:

WTDC Resolution 9 (Rev. Buenos Aires, 2017) Participation of countries, particularly developing countries, in spectrum management

(…)

“resolves to instruct the Director of the Telecommunication Development Bureau, in close consultation with the Director of the Radiocommunication Bureau

1 to collect pertinent information and prepare, over the period between world telecommunication development conferences, appropriate documents and other relevant outputs, that are responsive to the specific needs of developing countries (including, but not limited to, the examples given in Annex 1 to this resolution and membership input to the ITU-D study groups), on national technical, economic, regulatory and financial approaches to, and challenges of, spectrum management and spectrum monitoring, taking into account ITU-R Recommendations, reports, handbooks and other outputs from ITU-R;

(…)

4 to compile national experiences, in order to prepare the documents identified in resolves 1, on the use of shared spectrum, different tools for spectrum management that allow for greater flexibility, efficiency and both economic and social benefits, as well as the economic aspects of spectrum management, including mechanisms to stimulate affordable and accessible services to low-income users;”

Additionally, Resolution 9 also instructed the Director of the BDT to:

WTDC Resolution 9 (Rev. Buenos Aires, 2017) Participation of countries, particularly developing countries, in spectrum management

(…)

“instructs the Director of the Telecommunication Development Bureau

(…)

2 to encourage Member States from developing countries, at national and/or regional level, to provide ITU-R and ITU-D with a list of their needs, national experiences and/or special requirements with respect to national spectrum management, to which the Director should endeavour to respond, and an example of which is given in Annex 1 to this resolution;”

Bearing that in mind, it was decided in the Management Team for ITU-D Study Group 1 that a Vice-Chair would be appointed to collect inputs related to the work of WTDC-17 Resolution 9. Therefore, Mr. Roberto Hirayama, Vice-Chairman for ITU-D SG1 and Rapporteur for Question 2/1, was designated to perform these duties.

Mr. Hirayama asked each of the Rapporteur Teams of all SG1 Questions, during the last Rapporteur Meetings held in September/October 2019, for their input to the work referred above. Therefore, ITU-D Study Questions considered the contributions received and identified among the subjects of these documents, the topics that may be of interest to the work of the implementation of WTDC-17 Resolution 9, related to the topics 1 to 13 indicated in the Annex 1 of the abovementioned Resolution and listed below for reference:

“WTDC Resolution 9 (Rev. Buenos Aires, 2017) Participation of countries, particularly developing countries, in spectrum management

1. Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development;
2. Training and dissemination of available ITU documentation;
3. Assistance in developing methodologies for establishing national tables of frequency allocations and spectrum redeployment;
4. Assistance in setting up computerized frequency management and monitoring systems;
5. Economic and financial aspects of spectrum management;
6. Assistance with preparations for World Radiocommunication Conferences (WRC) and with follow-up and implementation of WRC decisions;
7. Assistance with participation in the work of the relevant ITU-R study groups and their working parties;
8. Transition to digital terrestrial television broadcasting;
9. Assistance in identifying the most efficient ways to utilize the digital dividend;
10. Emerging technologies and approaches in using spectrum;
11. Innovative ways of spectrum licensing;
12. Assistance with interference caused by devices in derogation of national spectrum allocations;
13. Assistance in resolving seasonal interference caused by anomalous propagation of radiowaves;”

**Main results and conclusions**

Mr. Hirayama received input from questions and consolidated the information, and reports back with the consolidated tables as follows:

* Table 1 with the results in terms of the interest in the topics 1 to 13 above as submitted by membership to the work of the Questions of the ITU-D SG1;
* Table 2 which brings the detailed information of the consolidated table on Annex 1, identifying each contribution and the related topic and its description, and
* Table 3 with the input received from each question.

From the data gathered from contributions, it can be noted that the following are the Top 5 topics of most interest to membership (in order of interest):

* Emerging technologies and approaches in using spectrum (item 10).
* Transition to digital terrestrial television broadcasting (item 8).
* Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development (item 1).
* Economic and financial aspects of spectrum management (item 5).
* Assistance in identifying the most efficient ways to utilize the digital dividend (item 9).

These topics should be considered by the documents/outputs referred to in WTDC Resolution 9 (Rev. Buenos Aires, 2017) in “*resolves to instruct the Director of the Telecommunication Development Bureau, in close consultation with the Director of the Radiocommunication Bureau* 1”, due to the fact that these reflect the interest of members, as requested by “*instructs the Director of the Telecommunication Development Bureau* 2”.

**Table 1: Consolidation of the possible topics of interest to the work of WTDC Resolution 9 (Rev. Buenos Aires, 2017).**

**TYPE OF ASSISTANCE**

1. Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development

2. Training and dissemination of available ITU documentation

3. Assistance in developing methodologies for establishing national tables of frequency allocations and spectrum redeployment

4. Assistance in setting up computerized frequency management and monitoring systems

5. Economic and financial aspects of spectrum management

6. Assistance with preparations for world radiocommunication conferences (WRC) and with follow-up and implementation of WRC decisions

7. Assistance with participation in the work of the relevant ITU-R study groups and their working parties

8. Transition to digital terrestrial television broadcasting

9. Assistance in identifying the most efficient ways to utilize the digital dividend

10. Emerging technologies and approaches in using spectrum

11. Innovative ways of spectrum licensing

12. Assistance with interference caused by devices in derogation of national spectrum allocations

13. Assistance in resolving seasonal interference caused by anomalous propagation of radiowaves

|  |  |
| --- | --- |
| **Topic** | **Number of related contributions:**  **ALL QUESTIONS** |
| 1.        Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development | 24 |
| 2.Training and dissemination of available ITU documentation | 0 |
| 3.       Assistance in developing methodologies for establishing national tables of frequency allocations and spectrum redeployment | 11 |
| 4.       Assistance in setting up computerized frequency management and monitoring systems | 4 |
| 5.       Economic and financial aspects of spectrum management | 15 |
| 6.       Assistance with preparations for world radiocommunication conferences (WRC) and with follow-up and implementation of WRC decisions | 4 |
| 7.       Assistance with participation in the work of the relevant ITU-R study groups and their working parties | 1 |
| 8.Transition to digital terrestrial television broadcasting | 26 |
| 9.        Assistance in identifying the most efficient ways to utilize the digital dividend | 12 |
| 10.    Emerging technologies and approaches in using spectrum | 68 |
| 11.    Innovative ways of spectrum licensing | 3 |
| 12.    Assistance with interference caused by devices in derogation of national spectrum allocations | 1 |
| 13.    Assistance in resolving seasonal interference caused by anomalous propagation of radiowaves | 0 |
|  | 169 |

**Table 2: Consolidated detailed information regarding the possible topics of interest to the work of WTDC Resolution 9 (Rev. Buenos Aires, 2017).**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Title** | **Source** | **Contribution** | | **TYPE OF ASSISTANCE (see above explanation)** | | | | | | | | | | | | | **Topic of interest**[[3]](#footnote-4)**:** |
| **Question** | **Document Number** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** |
| Guidelines on global broadband Internet access by fixed-satellite service systems | ITU-R S.1782-0 | Q.1/1 | D18-SG01-RGQ-C-0015 |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * Fixed Satellite service, global broadband internet access |
| Report on the ITU-D Study Groups related Experts’ Knowledge Exchange | Hungary | Q.1/1 | [SG1RGQ/33-E](http://www.itu.int/md/D18-SG01.RGQ-C-0033/) |  |  |  | 1 | 1 |  |  | 1 | 1 | 1 |  |  |  | * National strategies for 5G implementation * Case studies on 5G strategies and pilot projects * Enabling environment for 5G deployment |
| Report on the Regional Seminar for Europe and CIS on 5G Implementation in Europe and CIS: Strategies and Policies Enabling New Growth Opportunities, Budapest held in July 2018 | BDT Focal Point for Questions 1/1, 2/1, 1/2 and 7/2 | Q.1/1 | [SG1RGQ/45-E](http://www.itu.int/md/D18-SG01.RGQ-C-0045/) |  |  |  | 1 | 1 |  |  | 1 | 1 | 1 |  |  |  | * National strategies for 5G implementation * Case studies on 5G strategies and pilot projects * Enabling environment for 5G deployment |
| Outcome report : Workshop on The Future of Cable TV held in January 2018 | BDT Focal Point for Questions 1/1, 2/1, 3/1, 5/1 and 6/1 | Q.1/1 | [SG1RGQ/66-E](http://www.itu.int/md/D18-SG01.RGQ-C-0066/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * Cable TV trends & business model, environment, |
| Outcome report: Regional Seminar for Europe and CIS on Spectrum Management and Broadcasting held in May 2017 | BDT Focal Point for Questions 1/1, 2/1, and 4/1 | Q.1/1 | [SG1RGQ/67-E](http://www.itu.int/md/D18-SG01.RGQ-C-0067/) | 1 |  | 1 |  | 1 |  |  | 1 | 1 | 1 |  |  |  | * Broadcasting, spectrum monitoring, spectrum management for IoT, Digital dividend, etc |
| Importance of high-speed, high-quality broadband and 5G (IMT-2020) | Intel Corporation (United States of America) | Q.1/1 | [SG1RGQ/69-E](http://www.itu.int/md/D18-SG01.RGQ-C-0069/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * 5G, broadband |
| European Union’s strategy on “Connectivity for a European Gigabit Society” | Intel Corporation (United States of America) | Q.1/1 | [SG1RGQ/70-E](http://www.itu.int/md/D18-SG01.RGQ-C-0070/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * broadband, Gigabit society |
| Setting the scene for 5G: Opportunities & Challenges | BDT Focal Point for Question 1/1 | Q.1/1 | [SG1RGQ/74-E](http://www.itu.int/md/D18-SG01.RGQ-C-0074/) | 1 |  | 1 |  | 1 |  |  |  | 1 | 1 |  |  |  | * 5G, broadband |
| Creating an enabling regulatory framework for broadband network deployment | Namibia | Q.1/1 | [SG1RGQ/92-E](http://www.itu.int/md/D18-SG01.RGQ-C-0092/) | 1 |  | 1 |  |  |  |  |  |  | 1 |  |  |  | * Broadband network deployment |
| Expansion of telecommunication service coverage in remote and hard-to-reach communities of the Kyrgyz Republic | Kyrgyzstan | Q.1/1 | [SG1RGQ/176-E](http://www.itu.int/md/D18-SG01.RGQ-C-0176/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * Broadband in remote areas |
| Broadband and development | United States of America | Q.1/1 | [SG1RGQ/194-E](http://www.itu.int/md/D18-SG01.RGQ-C-0194/) | 1 |  | 1 |  | 1 |  |  |  |  | 1 |  |  |  | * Enabling broadband connectivity in developing countries |
| Expansion of Brazilian broadband network PERT | Brazil | Q.1/1 | [SG1RGQ/195-E](http://www.itu.int/md/D18-SG01.RGQ-C-0195/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * Mobile Broadband deployment, mobile broadband technologies |
| Promoting last mile connectivity using reverse auctions | United States of America | Q.1/1 | [SG1RGQ/209-E](http://www.itu.int/md/D18-SG01.RGQ-C-0209/) | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  |  | * Enabling broadband connectivity in rural areas, reverse auctions |
| Switch to 5G: which calendar? | Côte d’Ivoire | Q.1/1 | [SG1RGQ/214-E](http://www.itu.int/md/D18-SG01.RGQ-C-0214/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * Enabling broadband connectivity |
| Updated global 5G status | Intel Corporation (United States of America) | Q.1/1 | [SG1RGQ/236-E](http://www.itu.int/md/D18-SG01.RGQ-C-0236/) | 1 |  | 1 |  |  |  |  |  |  | 1 |  |  |  | * Enabling broadband connectivity |
| Socio-economic benefits of 5G services provided in mmWave Bands | Intel Corporation (United States of America) | Q.1/1 | [SG1RGQ/243-E](http://www.itu.int/md/D18-SG01.RGQ-C-0243/) | 1 |  | 1 |  |  | 1 |  |  |  | 1 |  |  |  | * Enabling broadband connectivity, mmWave spectrum |
| ITU regional week on Emerging Technologies for Sustainable Development and Digital Transformation in the Arab Region (26-29 August 2019) | BDT Focal Point for Question 1/2 | Q.1/1 | [SG1RGQ/245-E](http://www.itu.int/md/D18-SG01.RGQ-C-0245/) | 1 |  | 1 |  |  | 1 |  |  |  | 1 |  |  |  | * Enabling broadband connectivity, IoT, WRC19, Digital transformation, emerging technologies |
| ITU-R Study Groups - ITU-R Working Parties 4B (Systems, air interfaces, performance and availability objectives for FSS, BSS and MSS, including IP-based applications and satellite news gathering) | Liaison statement from ITU-R WP4B to ITU-D SG1 and SG2 on interrelated activities of ITU-R and ITU-D in response to Resolution ITU-R 69 (RA-15) | Q.1/1 | SG1RGQ/154-E |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  | * Enabling satellite broadband connectivity, RA19, emerging technologies |
| Broadband and development | United States of America | Q.1/1 | [SG1RGQ/194-E](http://www.itu.int/md/D18-SG01.RGQ-C-0194/) | 1 |  | 1 | 1 |  |  |  |  |  | 1 |  |  |  | * Enabling broadband connectivity, 4G/5G, emerging technologies |
| Reply to liaison statement on strategies and policies for the deployment of broadband in developing countries | 3GPP (3rd Generation Partnership Project) | Q.1/1 | [1/237-E](https://www.itu.int/md/D18-SG01-C-0237/) | 1 |  | 1 |  |  |  |  |  |  | 1 |  |  |  | * Enabling broadband connectivity, 4G/5G, emerging technologies, spectrum for 5G |
| Importance and evolution of Wi-Fi | Intel Corporation (United States of America) | Q.1/1 | [1/230-E](https://www.itu.int/md/D18-SG01-C-0224/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * Enabling broadband connectivity, 5G, emerging technologies, WiFi 6, WiGig |
| Transition to high-speed, high-quality mobile broadband networks (5G) | Intel Corporation (United States of America) | Q.1/1 | [1/224-E](https://www.itu.int/md/D18-SG01-C-0224/) | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  | * Enabling broadband connectivity, 5G |
| Mobile broadband in rural areas: The case of Sudan | Sudan | Q.1/1 | [1/279-E](https://www.itu.int/md/D18-SG01-C-0279/) | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  |  | * Enabling satellite broadband connectivity, |
| LTE-Advanced Pro, Pushing LTE capabilities towards 5G | Algérie Télécom SPA (Algeria) | Q.1/1 | [1/323-E](https://www.itu.int/md/D18-SG01-C-0323/) |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  | * Advancing LTE networks, Transition to 5G |
| Satellite components for the 5G system | Algérie Télécom SPA (Algeria) | Q.1/1 | [1/326-E](https://www.itu.int/md/D18-SG01-C-0326/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * Satellite components for 5G |
| Promoting the use of 5G in regional environments, including rural and remote areas | Japan | Q.1/1 | [1/361-E](https://www.itu.int/md/D18-SG01-C-0361/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * 5G use in regional environments, including rural and remote areas |
| Overview of draft ITU Last-Mile Internet Connectivity Toolkit: Solutions to connect the unconnected in developing countries | Telecommunication Development Bureau | Q.1/1 | [1/362-E](https://www.itu.int/md/D18-SG01-C-0362/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | * Last-mile internet connectivity |
| Industrial cooperation to promote the development of China's 4K ultra-HD industry | Huawei Technologies Co. Ltd. | Q.2/1 | [RGQ1/251](http://www.itu.int/md/D18-SG01.RGQ-C-0251/) |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  | Usage of UHD in broadcasting. |
| 5G application in video service area | Huawei Technologies Co. Ltd. | Q.2/1 | [RGQ1/249](http://www.itu.int/md/D18-SG01.RGQ-C-0249/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Use case of 5G for mobile immersive services based VR/AR technologies. |
| Television/video programming accessibility policy framework | Russian Federation | Q.2/1 | [RGQ1/247](http://www.itu.int/md/D18-SG01.RGQ-C-0247/) |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  | Innovative accessibility features in broadcasting. |
| Progress report on Chapter 1 of Q2/1 Report | TRA, Lebanon | Q.2/1 | [RGQ1/231](http://www.itu.int/md/D18-SG01.RGQ-C-0231/) +Ann.1 |  |  |  |  |  |  |  | 1 |  | 1 | 1 |  |  | Transition best practices (section 1.2);  Spectrum planning for the ASO (section 1.3);  Digital to digital transition (section 1.2.3.2) and;  Interference mitigation for the ASO (section 1.4). |
| Presentation on Q2/1 (Status of Q2/1 Report) | TRA, Lebanon | Q.2/1 | [RGQ1/230](http://www.itu.int/md/D18-SG01.RGQ-C-0230/) +Ann.1 |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Draft text for Q2/1 Report related to item 2.4 of the Question on "National experiences on interference mitigation measures" | TRA, Lebanon | Q.2/1 | [RGQ1/226](http://www.itu.int/md/D18-SG01.RGQ-C-0226/) |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  | Transition and to interference mitigation for the ASO. |
| Draft text for Q2/1 Report related to Chapter 1, sub part 1.6 "Conclusions, lessons learned from national experiences" | TRA, Lebanon | Q.2/1 | [RGQ1/225](http://www.itu.int/md/D18-SG01.RGQ-C-0225/) |  |  |  |  |  |  |  | 1 |  |  |  |  |  | Lesson’s learned from the transition to digital broadcasting. |
| Draft text for Q2/1 Report related to item 2.6 of the Question on "Costs of the transition to digital broadcasting and implications for the various players" | TRA, Lebanon | Q.2/1 | [RGQ1/224](http://www.itu.int/md/D18-SG01.RGQ-C-0224/) |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  | Costs from the transition to digital broadcasting. |
| Status and lessons learned from the adoption and implementation of digital terrestrial television broadcasting in Brazil | Brazil (Federative Republic of) | Q.2/1 | [RGQ1/223](http://www.itu.int/md/D18-SG01.RGQ-C-0223/) |  |  |  |  |  |  |  | 1 |  |  |  |  |  | Lesson’s learned from the transition to digital broadcasting. |
| Disposal of equipment resulting from the actions related to the DSO Process in Brazil | Brazil (Federative Republic of) | Q.2/1 | [RGQ1/222](http://www.itu.int/md/D18-SG01.RGQ-C-0222/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Interference mitigation between main and relay stations and the digital dividend stations during or after the DSO | Brazil (Federative Republic of) | Q.2/1 | [RGQ1/221](http://www.itu.int/md/D18-SG01.RGQ-C-0221/) |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  | Transition to digital broadcasting and interference mitigation for the ASO. |
| Emergency alerts through broadcasting services - Regulations and technology | Brazil (Federative Republic of) | Q.2/1 | [RGQ1/220](http://www.itu.int/md/D18-SG01.RGQ-C-0220/) |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  | Innovative emergence alerting features in broadcasting. |
| Discussions on the adoption and implementation of digital sound broadcasting in Brazil | Brazil (Federative Republic of) | Q.2/1 | [RGQ1/219](http://www.itu.int/md/D18-SG01.RGQ-C-0219/) (Rev.1) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Overview of the audiovisual sector and the digital migration process in Chad | Chad (Republic of) | Q.2/1 | [RGQ1/186](http://www.itu.int/md/D18-SG01.RGQ-C-0186/) |  |  |  |  |  |  |  | 1 |  |  |  |  |  | Lesson’s learned from the transition to digital broadcasting. |
| Updated version of the draft text on ITU activities related to digital broadcasting and digital dividend | TRA, Lebanon | Q.2/1 | [RGQ1/173](http://www.itu.int/md/D18-SG01.RGQ-C-0173/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Improvement of ITU tools used for the simulation of broadcasting networks in sub-Saharan Africa | Cameroon (Republic of) | Q.2/1 | [RGQ1/133](http://www.itu.int/md/D18-SG01.RGQ-C-0133/) |  |  |  | 1 |  |  |  |  |  |  |  |  |  | Improvements of ITU tools used for the simulation of broadcasting networks in sub-Saharan Africa. |
| Update to the draft matrix of ITU-R Working Parties and ITU-D Questions | TRA, Lebanon | Q.2/1 | [1/243](https://www.itu.int/md/D18-SG01-C-0243/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Draft text for Q2/1 Report related to Chapter 3 | TRA, Lebanon | Q.2/1 | [1/242](https://www.itu.int/md/D18-SG01-C-0242/) |  |  |  |  |  |  |  |  | 1 |  |  |  |  | Availability of the digital dividend in various regions. |
| Efforts towards promotion of 4K/8K broadcasting | Japan | Q.2/1 | [1/231](https://www.itu.int/md/D18-SG01-C-0231/) |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  | Usage of UHD in broadcasting. |
| Presentation on Q2/1 (Status of Q2/1 Report) | TRA, Lebanon | Q.2/1 | [1/226](https://www.itu.int/md/D18-SG01-C-0211/) +Ann.1 |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Draft text for Q2/1 Report related to item 2.1 of the Question on "Issues for the transition to digital terrestrial television broadcasting" | TRA, Lebanon | Q.2/1 | [1/214](https://www.itu.int/md/D18-SG01-C-0211/) |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  | Best practices on the transition to digital broadcasting (section 1.2); and  Digital to digital transition (section 1.2.3.2). |
| Draft text for Q2/1 Report related to item 2.3 of the Question "National experiences on spectrum planning activities for the Analogue switch-off" | TRA, Lebanon | Q.2/1 | [1/211](https://www.itu.int/md/D18-SG01-C-0211/) |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  | Best practices on the transition to digital broadcasting and spectrum planning for the ASO. |
| Updated version of the draft text on ITU activities related to digital broadcasting and digital dividend | TRA, Lebanon | Q.2/1 | [1/210](https://www.itu.int/md/D18-SG01-C-0210/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Case study: The United States digital television transition | United States of America | Q.2/1 | [1/206](https://www.itu.int/md/D18-SG01-C-0206/) |  |  |  |  |  |  |  | 1 |  |  |  |  |  | Lesson’s learned from the transition to digital broadcasting. |
| National IPv6 migration plan | Oman Telecommunications Regulatory Authority (TRA) | Q.2/1 | [1/204](https://www.itu.int/md/D18-SG01-C-0204/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Survey on the status of migration to digital terrestrial television broadcasting | Chad (Republic of) | Q.2/1 | [1/130](https://www.itu.int/md/D18-SG01-C-0130/) |  |  |  |  |  |  |  | 1 |  |  |  |  |  | Status of the transition to digital broadcasting. |
| Digital dividend | Chad (Republic of) | Q.2/1 | [1/127](https://www.itu.int/md/D18-SG01-C-0127/) |  |  |  |  |  |  |  |  | 1 |  |  |  |  | Availability of the digital dividend in Chad. |
| Vulnerability of connected TVs | Chad (Republic of) | Q.2/1 | [1/126](https://www.itu.int/md/D18-SG01-C-0126/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Usage of HbbTV in broadcasting. |
| Introduction of trends in new broadcasting technologies, services and applications | Huawei Technologies Co. Ltd. | Q.2/1 | [RGQ1/88](http://www.itu.int/md/D18-SG01.RGQ-C-0088/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| ITU-D and ITU-R inter-Sector coordination: Draft Mapping of ITU-R Working Parties’ activities to the ITU-D study Questions | ATDI | Q.2/1 | [RGQ1/84](http://www.itu.int/md/D18-SG01.RGQ-C-0084/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Use cases of new technologies, services and capabilities in broadcasting | Brazil (Federative Republic of) | Q.2/1 | [RGQ1/76](http://www.itu.int/md/D18-SG01.RGQ-C-0076/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Use cases of Multimedia application frameworks (MAFR, ITU-T H.76x Series) in broadcasting. |
| Draft text for Q2/1 Report related to item 2.7 of the Question on the use of the digital dividend | Telecommunications Regulatory Authority (TRA) | Q.2/1 | [RGQ1/65](http://www.itu.int/md/D18-SG01.RGQ-C-0065/) |  |  |  |  |  |  |  |  | 1 |  |  |  |  | Availability of the digital dividend in various regions. |
| ITU Spectrum Management Training Program | AFRALTI | Q.2/1 | [RGQ1/64](http://www.itu.int/md/D18-SG01.RGQ-C-0064/) +Ann.1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  | ITU Spectrum Management Training Program. |
| Draft text for ‘Executive Summary’ on ITU activities related to digital broadcasting and digital dividend | Telecommunications Regulatory Authority (TRA) | Q.2/1 | [RGQ1/63](http://www.itu.int/md/D18-SG01.RGQ-C-0063/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Revised Draft Table of Contents for ITU-D Question 2/1 Report | Telecommunications Regulatory Authority (TRA) | Q.2/1 | [RGQ1/62](http://www.itu.int/md/D18-SG01.RGQ-C-0062) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Report on the ITU-D Study Groups related Experts’ Knowledge Exchange | Hungary | Q.2/1 | [RGQ1/33](http://www.itu.int/md/D18-SG01.RGQ-C-0033/) +Ann.1 |  |  |  |  | 1 |  |  | 1 | 1 |  |  |  |  | Costs and availability of the digital dividend (section 2.2 of the Report); and  Aspects related to digital broadcasting (section 2.2 of the Report). |
| The process of introducing DSB in Tanzania | Tanzania (United Republic of) | Q.2/1 | [1/72](http://www.itu.int/md/D18-SG01-C-0072) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Infrastructure sharing in Brazil and other related initiatives | Brazil | Q.4/1 | [1/217-E](https://www.itu.int/md/D18-SG01-C-0217/) | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  | Spectrum sharing, spectrum auctions |
| Contribution for preparation of final report on Question 4/1, chapter 4, section 3: “Impacts of MVNO on market competition” | Madagascar | Q.4/1 | [SG1RGQ/198-E](http://www.itu.int/md/D18-SG01.RGQ-C-0198/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | MVNO |
| Contribution for preparation of final report on Question 4/1, chapter 3, section 1: “The impact of infrastructure and spectrum sharing on prices to consumers” | Madagascar | Q.4/1 | [SG1RGQ/199-E](http://www.itu.int/md/D18-SG01.RGQ-C-0199/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | MVNO |
| Challenges and alternatives in financial and regulatory challenges for 5G deployment | ADVISIA OC&C Strategy Consultants (Brazil) | Q.4/1 | [SG1RGQ/218-E](http://www.itu.int/md/D18-SG01.RGQ-C-0218/) |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  | 5G deplyment |
| Materials towards Chapter 4 Trends in the development of mobile virtual network operators (MVNO) and their regulatory framework | Russian Federation | Q.4/1 | [SG1RGQ/246-E](http://www.itu.int/md/D18-SG01.RGQ-C-0246/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | MVNO |
| Entrée des MVNO sur le secteur des communications électroniques au Sénégal | Senegal | Q.4/1 | [1/341-F](https://www.itu.int/md/D18-SG01-C-0341/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | MVNO case study |

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| Updated global 5G status | Intel Corporation (United States of America) | Q.5/1 | [SG1RGQ/236-E](http://www.itu.int/md/D18-SG01.RGQ-C-0236/) | 1 |  | 1 |  |  |  |  |  |  | 1 |  |  |  | Enabling broadband connectivity |
| Socio-economic benefits of 5G services provided in mmWave Bands | Intel Corporation (United States of America) | Q.5/1 | [SG1RGQ/243-E](http://www.itu.int/md/D18-SG01.RGQ-C-0243/) | 1 |  | 1 |  |  | 1 |  |  |  | 1 |  |  |  | Enabling broadband connectivity, mmWave spectrum |
| Transition to high-speed, high-quality mobile broadband networks (5G) | Intel Corporation (United States of America) | Q.5/1 | [1/224-E](https://www.itu.int/md/D18-SG01-C-0224/) | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  | Enabling broadband connectivity, 5G |
| Updated information on Wi-Fi 6 (IEEE 802.11ax) | Intel Corporation (United States of America) | Q.5/1 | [1/379-E](https://www.itu.int/md/D18-SG01-C-0379/) |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  | WiFi 6 IEEE 802.11ax |
| Overview of draft ITU Last-Mile Internet Connectivity Toolkit: Solutions to connect the unconnected in developing countries | Telecommunication Development Bureau | Q.5/1 | [1/362-E](https://www.itu.int/md/D18-SG01-C-0362/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Last-mile internet connectivity |
| Promoting the use of 5G in regional environments, including rural and remote areas | Japan | Q.5/1 | [1/361-E](https://www.itu.int/md/D18-SG01-C-0361/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 5G use in regional environments, including rural and remote areas |
| South African Broadband Policy and Strategy | South Africa | Q.5/1 | [1/354-E](https://www.itu.int/md/D18-SG01-C-0354/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Enhanced use and licensing of spectrum |
| Satellite components for the 5G system | Algérie Télécom SPA (Algeria) | Q.5/1 | [1/326-E](https://www.itu.int/md/D18-SG01-C-0326/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Satellite components for 5G |
| Mobile broadband in rural areas: The case of Sudan | Sudan | Q.5/1 | [1/279-E](https://www.itu.int/md/D18-SG01-C-0279/) | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  |  | Very high operation cost (transmission over VSAT) and alternative wireless technologies (Wi-Fi, Mobile) |
| Importance and evolution of Wi-Fi | Intel Corporation (United States of America) | Q.5/1 | [1/230-E](https://www.itu.int/md/D18-SG01-C-0224/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Enabling broadband connectivity, emerging technologies, WiFi 6, WiGig, 5G, Rural |
| Current practices, best practice, mechanisms and policies for deployment of ICTs in rural and remote areas and building ICT skill sets: Perspective from Zimbabwe | Zimbabwe | Q.5/1 | [1/201(Rev.1)-E](https://www.itu.int/md/D18-SG01-C-0201/) | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  |  | Enabling broadband connectivity, affordable spectrum, importance of low-frequency bands for rural |
| ICT improvement initiatives in public and remote areas | Korea | Q.5/1 | [1/169-E](https://www.itu.int/md/D18-SG01-C-0169/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Enabling broadband connectivity, through Wi-Fi and importance of Wi-Fi spectrum |
| Smart Green Villages and Internet of Things (SGVs & IoTs) | BDT | Q.5/1 | [1/150-E](https://www.itu.int/md/D18-SG01-C-0150/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Broadband connectivity, Wi-Fi spectrum |
| Uncovered villages: Method to find out number of uncovered villages and government initiatives to provide mobile coverage | India | Q.5/1 | [1/136-E](https://www.itu.int/md/D18-SG01-C-0136/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Mobile broadband coverage |
| India’s USOF model | India | Q.5/1 | [SG1RGQ/229-E](http://www.itu.int/md/D18-SG01.RGQ-C-0229/) | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  |  | Mobile broadband coverage |
| Promoting last mile connectivity using reverse auctions | United States of America | Q.5/1 | [SG1RGQ/209-E](http://www.itu.int/md/D18-SG01.RGQ-C-0209/) | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  |  | Enabling broadband connectivity in rural areas, reverse auctions |
| Expansion of Brazilian broadband network PERT | Brazil | Q.5/1 | [SG1RGQ/195-E](http://www.itu.int/md/D18-SG01.RGQ-C-0195/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Mobile Broadband deployment, mobile broadband technologies |
| Using 5G in rural and remote areas: Lessons learned and implications from 5G trial service in Pyeongchang and other remote areas | Korea | Q.5/1 | [SG1RGQ/212-E](http://www.itu.int/md/D18-SG01.RGQ-C-0212/) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 5G/spectrum and use in rural areas |

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| The Universal Service Obligation Fund of India (USOF)’s experience | India | Q.7/1 | [1/27](https://www.itu.int/md/D18-SG01-C-0027/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Proposal regarding activities to promote accessibility of telecommunications/ICTs for persons with disabilities | Mali | Q.7/1 | [1/37](https://www.itu.int/md/D18-SG01-C-0037/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| BDT report on the implementation of ICT accessibility activities, events and resources since last ITU-D Study Group 1 Q7/1 meeting | BDT Focal Point for Question 7/1 | Q.7/1 | [1/38](https://www.itu.int/md/D18-SG01-C-0038/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Information on the implemented activities in line with ITU EUR Regional Initiative EUR3 and proposal for the ITU-D SG1 Q7/1 work plan (2018-2021) | Bosnia and Herzegovina | Q.7/1 | [1/40](https://www.itu.int/md/D18-SG01-C-0040/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Draft work pan for ITU-D Study Group 1 on Question 7/1 | Mexico | Q.7/1 | [1/46](https://www.itu.int/md/D18-SG01-C-0046/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Spammers and phishers who target persons with disabilities | G3ict | Q.7/1 | [1/60](https://www.itu.int/md/D18-SG01-C-0060/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Sign language interpretation, its use at ITU and the pros and cons on the use of signing avatars instead of human interpreters | G3ict | Q.7/1 | [1/67](https://www.itu.int/md/D18-SG01-C-0067/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Case study of easy to distinguish accessible products by people with disabilities | Japan | Q.7/1 | [1/71](https://www.itu.int/md/D18-SG01-C-0071/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Activities for Women and ICTs Day, 26 April 2018 | Mali | Q.7/1 | [SG1RGQ/7-E](http://www.itu.int/md/D18-SG01.RGQ-C-0016/) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Status of ICT-based activities for PwD in Iran and the significance of E-Insight | ICT Research Institute (Iran) | Q.7/1 | [SG1RGQ/12](https://www.itu.int/md/D18-SG01.RGQ-C-0012/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Awareness-raising activities | Côte d'Ivoire (Republic of) | Q.7/1 | [SG1RGQ](https://www.itu.int/md/D18-SG01.RGQ-C-0013/en)/13 |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Information on the implementation of activities in ensuring accessible ICTs | Bosnia and Herzegovina | Q.7/1 | [SG1RGQ](https://www.itu.int/md/D18-SG01.RGQ-C-0016/en)/16 |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| The Global Accessibility Reporting Initiative (GARI): helping people find devices that best suit their needs and promoting mobile accessibility on national level | Mobile & Wireless Forum (MWF) | Q.7/1 | [SG1RGQ](https://www.itu.int/md/D18-SG01.RGQ-C-0019/en)/19 |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| BDT report on the implementation of ICT accessibility activities since the last ITU-D Study Group 1 Q7/1 meeting | BDT Focal Point for Question 7/1 | Q.7/1 | [SG1RGQ/23](https://www.itu.int/md/D18-SG01.RGQ-C-0023/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| BDT report on the implementation of ICT accessibility key resources available to support ITU Members in their implementation process | BDT Focal Point for Question 7/1 | Q.7/1 | [SG1RGQ/24](https://www.itu.int/md/D18-SG01.RGQ-C-0024/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| The case of Sanchar Shakti, the Indian Universal Service Obligation Fund's scheme for mobile value added services for rural women, an example of flexible, bottom Up, collaborative business models | India | Q.7/1 | [SG1RGQ/32](https://www.itu.int/md/D18-SG01.RGQ-C-0032/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| A case study on accessibility aspect should be considered for persons with disabilities and elderly | Japan | Q.7/1 | [SG1RGQ/71](https://www.itu.int/md/D18-SG01.RGQ-C-0071/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Case study on cell phones that support conversation between people with disabilities and the elderly | Japan | Q.7/1 | [SG1RGQ/78](https://www.itu.int/md/D18-SG01.RGQ-C-0078/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Information accessibility practice in China | China | Q.7/1 | [SG1RGQ/79](https://www.itu.int/md/D18-SG01.RGQ-C-0079/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| The DARE INDEX: Digital Accessibility Rights Evaluation Index - A tool to assess the level of implementation of ICT Accessibility policies and programs by States Parties to the CRPD | G3ict | Q.7/1 | [SG1RGQ/80](https://www.itu.int/md/D18-SG01.RGQ-C-0080/en) |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  | Television/video programming accessibility policy framework (Section 2.2 of the Q7 Final Report) |
| Access to the telecommunication/ICT services by persons with disabilities in the Russian Federation | Russian Federation | Q.7/1 | [SG1RGQ/83](https://www.itu.int/md/D18-SG01.RGQ-C-0083/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| ITU-D and ITU-R inter-Sector coordination: Draft Mapping of ITU-R Working Parties' activities to the ITU-D study Questions | ATDI | Q.7/1 | [SG1RGQ/84](https://www.itu.int/md/D18-SG01.RGQ-C-0084/en) |  |  |  |  |  |  | 1 |  |  |  |  |  |  | N/A |
| Toolkit for safe listening standards | WHO | Q.7/1 | [SG1RGQ/86](https://www.itu.int/md/D18-SG01.RGQ-C-0086/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Captioning update for accessible meetings | G3ict | Q.7/1 | [SG1RGQ/87](https://www.itu.int/md/D18-SG01.RGQ-C-0087/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Web Accessibility (WA) Quality Certification | Korea (Republic of) | Q.7/1 | [SG1RGQ](https://www.itu.int/md/D18-SG01.RGQ-C-0091/en)/91 |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Launching a survey for ICT development for persons with disabilities | Iran University of Science & Technology | Q.7/1 | [SG1RGQ/95](https://www.itu.int/md/D18-SG01.RGQ-C-0095/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| The use of information and communication technologies (ICTs) in centres for persons with disabilities in Burundi | Burundi (Republic of) | Q.7/1 | [1/129](https://www.itu.int/md/D18-SG01-C-0129/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Annual progress report for Question 7/1 for March 2019 meeting | Rapporteur for Question 7/1 | Q.7/1 | [1/135](https://www.itu.int/md/D18-SG01-C-0135/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Mobile application "Banknote Reader" for blind and deaf-blind users | Russian Federation | Q.7/1 | [1/138](https://www.itu.int/md/D18-SG01-C-0138/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Ensuring accessibility of Internet resources in the Russian Federation | Russian Federation | Q.7/1 | [1/139](https://www.itu.int/md/D18-SG01-C-0139/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Status of ICT-based activities for PwD in Iran | ICT Research Institute (Iran (Islamic Republic of) | Q.7/1 | [1/149](https://www.itu.int/md/D18-SG01-C-0149/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Implementation of activities in ensuring accessible ICTs | Bosnia and Herzegovina | Q.7/1 | [1/155](https://www.itu.int/md/D18-SG01-C-0155/en) |  |  |  |  |  |  |  | 1 |  |  |  |  |  | Television/video programming accessibility policy framework (Section 2.2 of the Q7 Final Report) |
| Assessing the impact of video remote sign language interpreting in healthcare: linking disability studies with empirical challenges of public health research | University of Geneva | Q.7/1 | [1/156](https://www.itu.int/md/D18-SG01-C-0156/en) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Television/video programming accessibility policy framework (Section 2.2 of the Q7 Final Report) |
| Let everyone enjoy the wonderful life brought by science and technology | China (People's Republic of) | Q.7/1 | [1/167](https://www.itu.int/md/D18-SG01-C-0167/en) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Mobile communication accessibility policy framework (Section 2.1 of the Q7 Final Report) |
| Politique d'accessibilité aux télécommunications/TIC pour l'espace CEDEAO | Côte d'Ivoire (Republic of) | Q.7/1 | [1/176](https://www.itu.int/md/D18-SG01-C-0176/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Compte rendu de l'atelier CEDEAO-UIT | Mali (Republic of) | Q.7/1 | [1/182](https://www.itu.int/md/D18-SG01-C-0182/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Universal design as a mechanism for ICT accessibility in the Global South | Oslo Metropolitan University | Q.7/1 | [1/183](https://www.itu.int/md/D18-SG01-C-0183/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Real Time Relay Services: a telephone service that enables deaf and hard of hearing and or voiceless person to make a voice-call with a hearing person | ITU-T JCA-AHF | Q.7/1 | [1/215](https://www.itu.int/md/D18-SG01-C-0215/en) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Requirements for Relay Services for the PwD and other persons with specific needs (Section 3.1 of the Q7 Final Report) |
| Literacy action to promote access for people with disabilities and seniors to telecommunication/ICT services | Mexico | Q.7/1 | [1/190](https://www.itu.int/md/D18-SG01-C-0190/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Progress and results achieved during a year of implementation of measures on accessibility for telecommunications services for people with disabilities and special needs | Mexico | Q.7/1 | [1/191](https://www.itu.int/md/D18-SG01-C-0191/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| General Guidelines for accessibility to telecommunications services for user with disabilities | Mexico | Q.7/1 | [1/192](https://www.itu.int/md/D18-SG01-C-0192/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Case study on support for telephone communication with voice recognition | Japan | Q.7/1 | [1/232](https://www.itu.int/md/D18-SG01-C-0232/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Investment and innovation in accessibility | Facebook | Q.7/1 | [1/239](https://www.itu.int/md/D18-SG01-C-0239/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Intelligent voice-controlled personal assistants and deaf people | G3ict | Q.7/1 | [1/240](https://www.itu.int/md/D18-SG01-C-0240/en) |  |  |  |  |  |  |  |  |  | 1 |  |  |  | Overview of current policies and regulations for telecommunications and ICT accessibility for PWD and other persons with specific needs (Section 1.3 of the Q7 Final Report) |
| Leveraging the potential of mobile for persons with disabilities | GSMA | Q.7/1 | [1/249](https://www.itu.int/md/D18-SG01-C-0249/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Digital inclusion in Cameroon - achievements and challenges | Cameroon (Republic of) | Q.7/1 | [SG1RGQ/137](https://www.itu.int/md/D18-SG01.RGQ-C-0137/en) | 1 |  |  |  |  |  |  |  |  |  |  |  |  | Good practices, challenges and available case studies (Section 1.4 of the Q7 Final Report) |
| Projects financed by AGEFAU for persons with disabilities in Mali | Mali (Republic of) | Q.7/1 | [SG1RGQ/142](https://www.itu.int/md/D18-SG01.RGQ-C-0142/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Inclusion of persons with specific needs in the National Digital Initiative | Haiti (Republic of) | Q.7/1 | [SG1RGQ/149](file:///C:\Users\AWOTAR\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\Z44VVLR8\Haiti%20(Republic%20of)) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Accessibility initiatives and services for persons with specific needs | Palestine(\*) | Q.7/1 | [SG1RGQ/156](https://www.itu.int/md/D18-SG01.RGQ-C-0156/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Rights, protection and access of persons with disabilities and persons with specific needs in relation to ICTs and IoT | Central African Republic | Q.7/1 | [SG1RGQ/161](https://www.itu.int/md/D18-SG01.RGQ-C-0161/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Training seminar for IT managers and webmasters from government agencies on accessibility of web content for persons with disabilities | Côte d'Ivoire (Republic of) | Q.7/1 | [SG1RGQ/163](https://www.itu.int/md/D18-SG01.RGQ-C-0163/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Financing of equipment for specialized multimedia centres for people with disabilities | Côte d'Ivoire (Republic of) | Q.7/1 | [SG1RGQ/164](https://www.itu.int/md/D18-SG01.RGQ-C-0164/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Access to ICTs by persons with disabilities in Burundi | Burundi (Republic of) | Q.7/1 | [SG1RGQ/168](https://www.itu.int/md/D18-SG01.RGQ-C-0168/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Implementation of activities in ensuring accessible ICTs | Bosnia and Herzegovina | Q.7/1 | [SG1RGQ/180](https://www.itu.int/md/D18-SG01.RGQ-C-0180/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Descriptive video service - "listening to" movies and videos | China (People's Republic of) | Q.7/1 | [SG1RGQ/188](https://www.itu.int/md/D18-SG01.RGQ-C-0188/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Telecommunications Relay Service -Before and After Its Beginnings | G3ict | Q.7/1 | [SG1RGQ/189](https://www.itu.int/md/D18-SG01.RGQ-C-0189/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Working document - Draft Question 7/1 Output Report | Rapporteur for Question 7/1 | Q.7/1 | [SG1RGQ/192](https://www.itu.int/md/D18-SG01.RGQ-C-0192/en) | 1 |  |  |  |  |  |  | 1 |  | 1 |  |  |  | N/A |
| Accessibility in the framework of the Brazilian telecommunication regulation | Brazil (Federative Republic of) | Q.7/1 | [SG1RGQ/196](https://www.itu.int/md/D18-SG01.RGQ-C-0196/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Accessible digital environment for persons with hearing impairments | Russian Federation | Q.7/1 | SG1RGQ/202 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | Television/video programming accessibility policy framework (Section 2.2 of the Q7 Final Report) |
| Access to television and video content for persons with sight impairments: audio description | Russian Federation | Q.7/1 | [SG1RGQ/203](https://www.itu.int/md/D18-SG01.RGQ-C-0203/en) |  |  |  |  |  |  |  | 1 |  |  |  |  |  | Television/video programming accessibility policy framework (Section 2.2 of the Q7 Final Report) |
| Proposed contribution of ITU-D Question 7/1 to the intra-sectoral coordination of ITU-D study groups | Russian Federation | Q.7/1 | [SG1RGQ/204](https://www.itu.int/md/D18-SG01.RGQ-C-0204/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| WFD and IFHOH joint statement: Automatic speech recognition in telephone relay services and in captioning services | G3ict | Q.7/1 | [SG1RGQ/211](https://www.itu.int/md/D18-SG01.RGQ-C-0211/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Television/video programming accessibility policy framework | Russian Federation | Q.7/1 | [SG1RGQ/247](https://www.itu.int/md/D18-SG01.RGQ-C-0247/en) |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  | Television/video programming accessibility policy framework (Section 2.2 of the Q7 Final Report) |
| Web accessibility policy framework | Russian Federation | Q.7/1 | [SG1RGQ/248](https://www.itu.int/md/D18-SG01.RGQ-C-0248/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Result of the Survey on Digital Information Divide and Web Accessibilities | Korea (Republic of) | Q.7/1 | [SG1RGQ/255](https://www.itu.int/md/D18-SG01.RGQ-C-0255/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Research topics for handling interaction problem between PwDs and assistant systems | ICT Research Institute (Iran (Islamic Rep. of)) | Q.7/1 | [1/280](https://www.itu.int/md/D18-SG01-C-0280/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| OTTs to enhance accessibility for persons with disabilities | Mali (Republic of) | Q.7/1 | [1/283](https://www.itu.int/md/D18-SG01-C-0283/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Access to ICTs by persons with specific needs in Mauritania | Mauritania (Islamic Republic of) | Q.7/1 | [1/299](https://www.itu.int/md/D18-SG01-C-0299/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Content for Chapter 4 of the Draft Question 7/1 Final Report 2021 | Bosnia and Herzegovina | Q.7/1 | [1/315](https://www.itu.int/md/D18-SG01-C-0315/en) | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  | Chapter 4 – Conclusions and general recommendation (Section 4 of the Q7 Final Report) |
| Question 7/1 contribution for ensuring intra-sectoral collaboration of ITU-D study groups | Russian Federation | Q.7/1 | [1/319](https://www.itu.int/md/D18-SG01-C-0319/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Chapter 4 - Conclusions and general recommendations, section 4.2 - Promotion of accessibility in public ICT spaces, such as telecentres and public payphones | Russian Federation | Q.7/1 | [1/320](https://www.itu.int/md/D18-SG01-C-0320/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Proposals for preliminary topics for the next study period | Russian Federation | Q.7/1 | [1/321](https://www.itu.int/md/D18-SG01-C-0321/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Information accessibility practices in China | China (People's Republic of) | Q.7/1 | [1/332](https://www.itu.int/md/D18-SG01-C-0332/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Workshop for the presentation and submission of the draft charter to players in the ecosystem, for consultation | Côte d'Ivoire (Republic of) | Q.7/1 | [1/337](https://www.itu.int/md/D18-SG01-C-0337/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Progress and results after two years of implementation of accessibility measures for telecommunication services for persons with disabilities | Mexico | Q.7/1 | [1/350](https://www.itu.int/md/D18-SG01-C-0350/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| The Global Accessibility Reporting Initiative (GARI): helping people find devices that best suit their needs and promoting mobile accessibility on national level - progress and call for partnerships | Mobile and Wireless Forum | Q.7/1 | [1/352](https://www.itu.int/md/D18-SG01-C-0352/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Etat de lieu de l'accès des personnes handicapées au TIC en RD Congo | DR Congo | Q.7/1 | [1/365](https://www.itu.int/md/D18-SG01-C-0365/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Proposal to update the content of "Working document - Draft Question 7/1 Output Report" which is drafted in document SG1RGQ/192 | China (People's Republic of) | Q.7/1 | [1/376](https://www.itu.int/md/D18-SG01-C-0376/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Draft text for Q7/1 final report related to Chapter 1 | China (People's Republic of) | Q.7/1 | [1/377](https://www.itu.int/md/D18-SG01-C-0377/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Case studies and resources for ICTS and accessibility | GSMA | Q.7/1 | [1/385](https://www.itu.int/md/D18-SG01-C-0385/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Digital accessibility and intersectional discrimination | Oslo Metropolitan University, Norway | Q.7/1 | [1/393](https://www.itu.int/md/D18-SG01-C-0393/en) |  |  |  |  |  |  |  |  |  |  |  |  |  | - |

**Table 3: Total number of contributions related to WTDC Resolution 9 (Rev. Buenos Aires, 2017) per question.**

**Question 1/1**

|  |  |
| --- | --- |
| **Topic** | **Number of related contributions**  **Question 1/1** |
| 1.        Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development | 12 |
| **2.**Training and dissemination of available ITU documentation | 0 |
| 3.       Assistance in developing methodologies for establishing national tables of frequency allocations and spectrum redeployment | 9 |
| 4.       Assistance in setting up computerized frequency management and monitoring systems | 3 |
| 5.       Economic and financial aspects of spectrum management | 7 |
| 6.       Assistance with preparations for world radiocommunication conferences (WRC) and with follow-up and implementation of WRC decisions | 3 |
| 7.       Assistance with participation in the work of the relevant ITU-R study groups and their working parties | 0 |
| 8.Transition to digital terrestrial television broadcasting | 4 |
| 9.        Assistance in identifying the most efficient ways to utilize the digital dividend | 4 |
| 10.    Emerging technologies and approaches in using spectrum | 28 |
| 11.    Innovative ways of spectrum licensing | 1 |
| 12.    Assistance with interference caused by devices in derogation of national spectrum allocations | 0 |
| 13.    Assistance in resolving seasonal interference caused by anomalous propagation of radiowaves | 0 |
| **Total** | **71** |

**Question 2/1**

|  |  |
| --- | --- |
| **Topic** | **Number of related contributions**  **Question 2/1** |
| 1. Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development | 1 |
| 1. Training and dissemination of available ITU documentation | 0 |
| 1. Assistance in developing methodologies for establishing national tables of frequency allocations and spectrum redeployment | 0 |
| 1. Assistance in setting up computerized frequency management and monitoring systems | 1 |
| 1. Economic and financial aspects of spectrum management | 2 |
| 1. Assistance with preparations for world radiocommunication conferences (WRC) and with follow-up and implementation of WRC decisions | 0 |
| 1. Assistance with participation in the work of the relevant ITU-R study groups and their working parties | 0 |
| 1. Transition to digital terrestrial television broadcasting | 16 |
| 1. Assistance in identifying the most efficient ways to utilize the digital dividend | 4 |
| 1. Emerging technologies and approaches in using spectrum | 10 |
| 1. Innovative ways of spectrum licensing | 1 |
| 1. Assistance with interference caused by devices in derogation of national spectrum allocations | 0 |
| 1. Assistance in resolving seasonal interference caused by anomalous propagation of radiowaves | 0 |
| **Total** | 35 |

**Question 4/1**

|  |  |
| --- | --- |
| **Topic** | **Number of related contributions** |
| 1.        Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development | 1 |
| **2.**Training and dissemination of available ITU documentation | 0 |
| 3.       Assistance in developing methodologies for establishing national tables of frequency allocations and spectrum redeployment | 0 |
| 4.       Assistance in setting up computerized frequency management and monitoring systems | 0 |
| 5.       Economic and financial aspects of spectrum management | 1 |
| 6.       Assistance with preparations for world radiocommunication conferences (WRC) and with follow-up and implementation of WRC decisions | 0 |
| 7.       Assistance with participation in the work of the relevant ITU-R study groups and their working parties | 0 |
| 8.Transition to digital terrestrial television broadcasting |  |
| 9.        Assistance in identifying the most efficient ways to utilize the digital dividend | 4 |
| 10.    Emerging technologies and approaches in using spectrum | 5 |
| 11.    Innovative ways of spectrum licensing | 1 |
| 12.    Assistance with interference caused by devices in derogation of national spectrum allocations | 0 |
| 13.    Assistance in resolving seasonal interference caused by anomalous propagation of radiowaves | 0 |
| **Total** | **12** |

**Question 5/1**

|  |  |
| --- | --- |
| **Topic** | **Number of related contributions** |
| 1.        Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development | 7 |
| **2.**Training and dissemination of available ITU documentation | 0 |
| 3.       Assistance in developing methodologies for establishing national tables of frequency allocations and spectrum redeployment | 2 |
| 4.       Assistance in setting up computerized frequency management and monitoring systems | 0 |
| 5.       Economic and financial aspects of spectrum management | 5 |
| 6.       Assistance with preparations for world radiocommunication conferences (WRC) and with follow-up and implementation of WRC decisions | 1 |
| 7.       Assistance with participation in the work of the relevant ITU-R study groups and their working parties | 0 |
| 8.Transition to digital terrestrial television broadcasting |  |
| 9.        Assistance in identifying the most efficient ways to utilize the digital dividend | 0 |
| 10.    Emerging technologies and approaches in using spectrum | 18 |
| 11.    Innovative ways of spectrum licensing | 0 |
| 12.    Assistance with interference caused by devices in derogation of national spectrum allocations | 0 |
| 13.    Assistance in resolving seasonal interference caused by anomalous propagation of radiowaves | 0 |
| **Total** | **33** |

**Question 7/1**

|  |  |
| --- | --- |
| **Topic** | **Number of related contributions** |
| 1. Assistance in raising the awareness of national policy-makers as to the importance of effective spectrum management for a country's economic and social development | 3 |
| 1. Training and dissemination of available ITU documentation | 0 |
| 1. Assistance in developing methodologies for establishing national tables of frequency allocations and spectrum redeployment | 0 |
| 1. Assistance in setting up computerized frequency management and monitoring systems | 0 |
| 1. Economic and financial aspects of spectrum management | 0 |
| 1. Assistance with preparations for world radiocommunication conferences (WRC) and with follow-up and implementation of WRC decisions | 0 |
| 1. Assistance with participation in the work of the relevant ITU-R study groups and their working parties | 1 |
| 1. Transition to digital terrestrial television broadcasting | 6 |
| 1. Assistance in identifying the most efficient ways to utilize the digital dividend | 0 |
| 1. Emerging technologies and approaches in using spectrum | 7 |
| 1. Innovative ways of spectrum licensing | 0 |
| 1. Assistance with interference caused by devices in derogation of national spectrum allocations | 1 |
| 1. Assistance in resolving seasonal interference caused by anomalous propagation of radiowaves | 0 |
| **Total** | **18** |

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**Annex 4: Intra-sector mapping between ITU-D SG1 and SG2 Questions (draft matrix)**

The current draft matrix of relationships and interactions between study Questions in ITU-D SG1 and ITU-D SG2 is shared with an aim to identify areas of possible areas of overlap and opportunities where collaboration could be further strengthened. This is a living document which is expected to evolve over the study period as the study Questions progress their work. This table incorporates some additional updates (highlighted in green) following discussion during the 2020 ITU-D SG1/SG2 meetings.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | [**Q1/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ01.1&stg=1) | [**Q2/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ02.1&stg=1) | [**Q3/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ03.1&stg=1) | [**Q4/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ04.1&stg=1) | [**Q5/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ05.1&stg=1) | [**Q6/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ06.1&stg=1) | [**Q7/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ07.1&stg=1) | [**Q1/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ01.2&stg=2) | [**Q2/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ02.2&stg=2) | [**Q3/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ03.2&stg=2) | [**Q4/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ04.2&stg=2) | [**Q5/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ05.2&stg=2) | [**Q6/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ06.2&stg=2) | [**Q7/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ07.2&stg=2) |
| [**Q1/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ01.1&stg=1) |  | **X** | **X** | **X** | **X** |  | **X** | **X** | **X** |  | **X** | **X** | **X** |  |
| [**Q2/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ02.1&stg=1) | **X** |  |  |  | **X** |  | **X** |  |  |  | **X** | **X** | **X** |  |
| [**Q3/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ03.1&stg=1) | **X** |  |  | **X** |  | **X** | **X** |  |  | **X** |  | **X** | **X** |  |
| [**Q4/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ04.1&stg=1) | **X** |  | **X** |  | **X** | **X** | **X** |  |  |  |  | **X** |  |  |
| [**Q5/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ05.1&stg=1) | **X** | **X** |  | **X** |  | **X** |  | **X** | **X** |  |  | **X** | **X** |  |
| [**Q6/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ06.1&stg=1) |  |  | **X** | **X** | **X** |  | **X** |  |  | **X** | **X** |  |  | **X** |
| [**Q7/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ07.1&stg=1) | **X** | **X** | **X** | **X** |  | **X** |  |  | **X** | **X** |  | **X** |  |  |
| [**Q1/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ01.2&stg=2) | **X** |  |  |  | **X** |  |  |  | **X** | **X** | **X** | **X** | **X** | **X** |
| [**Q2/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ02.2&stg=2) | **X** |  |  |  | **X** |  | **X** | **X** |  | **X** |  | **X** |  |  |
| [**Q3/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ03.2&stg=2) |  |  | **X** |  |  | **X** | **X** | **X** | **X** |  |  | **X** |  |  |
| [**Q4/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ04.2&stg=2) | **X** | **X** |  |  |  | **X** |  | **X** |  |  |  |  |  | **X** |
| [**Q5/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ05.2&stg=2) | **X** | **X** | **X** |  | **X** |  | **X** | **X** | **X** | **X** |  |  | **X** |  |
| [**Q6/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ06.2&stg=2) | **X** | **X** | **X** |  | **X** |  |  | **X** |  |  |  | **X** |  | **X** |
| [**Q7/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ07.2&stg=2) |  |  |  |  |  | **X** |  | **X** |  |  | **X** |  | **X** |  |

**Annex 5: Intra-sector mapping between ITU-D SG1 and SG2 Questions (practical example from Q7/1 of how the mapping can assist)**

The example below shares a practical way forward to help avoid duplication of material in the final output reports for the study period 2018-2021. It has been noted that a number of Questions under study overlap not only in terms of the mandates approved by WTDC-17, but also in their tables of content for the final out reports. Rapporteurs are encouraged to produce similar roadmaps for intra-sectoral collaboration, showing the correlation between ongoing work in the context of their questions under study and other ITU-D SG1 and SG2 questions under study.

Table 1: Example for ITU-D Study Group 1 Question 7/1 which can collaborate which the following ITU-D Questions in accordance with their mandates set by WTDC-17 for ITU-D study period 2018-2021. Detailed information can be found in document [1/319](https://www.itu.int/md/D18-SG01-C-0319/)

| Study Question | Collaboration with | Study Question’s ToR “Question or issue for study” |
| --- | --- | --- |
| [**Question 7/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ07.1&stg=1)Access to telecommunication/ICTs by persons with disabilities and other persons with specific needs | [**Question 6/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ06.1&stg=1)Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks | Any economic and financial measures adopted by national authorities in the interests of consumers of telecommunication/ICT services, in particular specific categories of users (persons with disabilities, women and children) |
| Mechanisms to promote the creation of useful information and practical tools to be used for promoting digital literacy, especially among specific groups such as women, girls, users with disabilities and the elderly |
| [**Question 3/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ03.2&stg=2)Securing information and communication networks: Best practices for developing a culture of cybersecurity | Examine specific needs of persons with disabilities, in coordination with other relevant Questions. |

**Annex 6: Mapping between ITU-D and ITU-T study Questions**

In the context of mapping between the ITU-D and ITU-T study group Questions,the following table shows: 1) updates proposed by the ITU-D SG1 and SG2 rapporteur groups following their meetings in September and October 2019 with respect to the (baseline) mapping matrix in the ISCG common repository (see green highlights); and 2) differences between the mapping matrix included in the liaison statement from TSAG (Document[TDAG-20/23](https://www.itu.int/md/D18-TDAG25-C-0023)) and the ISCG baseline mapping matrix; some of the differences were proposed by TSAG *before* the ISCG baseline was created (see Document [TDAG-19/11](https://www.itu.int/md/D18-TDAG24-C-0011)) and may therefore be superseded (see grey highlights). The new changes proposed by TSAG *after* the creation of the ISCG baseline are highlighted in yellow. It is proposed that the new ISCG baseline incorporates the updates from the ITU-D rapporteur groups and only the new changes from TSAG received *after* the ISCG baseline was created.

|  | | **ITU-D SG 1** | | | | | | | **ITU-D SG 2** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**Q1/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ01.1&stg=1) | [**Q2/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ02.1&stg=1) | [**Q3/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ03.1&stg=1) | [**Q4/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ04.1&stg=1https://www.itu.int/md/D14-WTDC17-C-0115/) | [**Q5/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ05.1&stg=1) | [**Q6/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ06.1&stg=1) | [**Q7/1**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG01-RGQ07.1&stg=1) | [**Q1/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ01.2&stg=2) | [**Q2/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ02.2&stg=2) | [**Q3/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ03.2&stg=2) | [**Q4/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ04.2&stg=2) | [**Q5/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ05.2&stg=2) | [**Q6/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ06.2&stg=2) | [**Q7/2**](https://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2018&rgq=D18-SG02-RGQ07.2&stg=2) |
| **ITU-T SG2** | [**Q1/2**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/02/Pages/q1.aspx) | X |  | ~~X~~ |  |  | X |  | X |  |  | X |  |  |  |
| [**Q2/2**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/02/Pages/q2.aspx) | X |  |  |  |  | ~~X~~ |  |  |  |  |  |  |  |  |
| [**Q3/2**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/02/Pages/q3.aspx) |  |  |  |  |  |  |  |  |  |  |  | X |  |  |
| [**Q5/2**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/02/Pages/q5.aspx) | ~~X~~ |  | X |  |  | ~~X~~ |  |  |  |  |  |  |  |  |
| [**Q6/2**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/02/Pages/q6.aspx) | X |  | X |  |  |  |  | X |  |  |  |  |  |  |
| [**Q7/2**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/02/Pages/q7.aspx) |  |  | X |  |  |  |  |  |  |  | X |  |  |  |
| **ITU-T SG3** | [**Q1/3**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q1.aspx) | X |  |  | X |  |  |  |  |  |  |  |  |  |  |
| [**Q2/3**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q2.aspx) |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| [**Q3/3**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q3.aspx) | X |  |  | X |  | X |  | X |  |  |  |  |  |  |
| [**Q4/3**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q4.aspx) |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| [**Q5/3**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q5.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q6/3**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q6.aspx) | X |  |  | X |  |  |  |  |  |  |  |  |  |  |
| [**Q7/3**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q7.aspx) |  |  |  | X |  |  |  | ~~X~~ |  |  |  |  |  |  |
| [**Q8/3**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q8.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q9/3**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q9.aspx) |  |  | X | ~~X~~ |  | X |  |  |  |  |  |  |  |  |
| [**Q10/3**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q10.aspx) | X |  |  | X |  | X |  |  |  |  |  |  |  |  |
| [**Q11/3**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q11.aspx) |  |  | X |  |  |  |  |  |  |  |  |  |  |  |
| [**Q12/3**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q12.aspx) |  |  | X | X |  | X |  |  |  |  | X |  |  |  |
| [**Q13/3**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/03/Pages/q13.aspx) | X |  |  | X |  |  |  |  |  |  |  |  |  |  |
| **ITU-T SG5** | [**Q1/5**](https://www.itu.int/net4/ITU-T/lists/loqr.aspx?Group=5&Period=16) |  |  |  |  | X |  |  |  |  |  |  |  |  |  |
| [**Q2/5**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/05/Pages/q2.aspx) |  |  |  |  |  |  | X |  |  |  | X |  |  |  |
| [**Q3/5**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/05/Pages/q3.aspx) |  |  |  |  |  |  |  |  |  |  | X |  |  | X |
| [**Q4/5**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/05/Pages/q4.aspx) |  |  |  |  | X |  | X |  | X |  | X |  |  |  |
| [**Q5/5**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/05/Pages/q5.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q6/5**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/05/Pages/q6.aspx) | X |  | X |  |  |  |  | X |  |  |  | X | X |  |
| [**Q7/5**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/05/Pages/q7.aspx) | X |  | X |  |  |  |  | X |  |  | X |  | X |  |
| [**Q8/5**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/05/Pages/q8.aspx) |  |  |  |  |  |  |  |  |  |  |  |  | X |  |
| [**Q9/5**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/05/Pages/q9.aspx) | X |  |  |  | X |  |  |  |  |  | X | X | X |  |
| [**Q10/5**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/05/Pages/q10.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **ITU-T SG9** | [**Q1/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q1.aspx) | ~~X~~ | X |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q2/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q2.aspx) |  | X |  |  |  |  |  |  |  | X |  |  |  |  |
| [**Q3/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q3.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q4/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q4.aspx) |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q5/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q5.aspx) | ~~X~~ | X |  |  |  |  |  |  |  | ~~X~~ |  |  |  |  |
| [**Q6/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q6.aspx) |  | X |  |  |  |  |  |  |  |  | ~~X~~ |  |  |  |
| [**Q7/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q7.aspx) |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q8/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q8.aspx) | ~~X~~ | X | X |  |  |  |  |  |  |  |  |  |  |  |
| [**Q9/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q9.aspx) |  | ~~X~~ | ~~X~~ |  |  |  |  |  |  |  |  |  |  |  |
| [**Q10/9**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Pages/q10.aspx) |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| **ITU-T SG11** | [**Q1/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q1.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q2/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q2.aspx) | X |  |  |  |  |  |  |  |  | X |  |  |  |  |
| [**Q3/11**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q3.aspx) |  |  |  |  |  |  |  |  |  |  | ~~X~~ | X |  |  |
| [**Q4/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q4.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q5/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q5.aspx) | X |  |  |  |  |  |  | X |  |  |  |  |  |  |
| [**Q6/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q6.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q7/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q7.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q8/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q8.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q9/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q9.aspx) | X |  |  |  |  |  |  |  |  |  | X |  |  |  |
| [**Q10/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q10.aspx) | X |  |  |  |  |  |  |  |  |  | X |  |  |  |
| [**Q11/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q11.aspx) |  |  |  |  |  |  |  |  |  |  | X |  |  |  |
| [**Q12/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q12.aspx) |  |  |  |  |  |  |  | X |  |  | X |  |  |  |
| [**Q13/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q13.aspx) |  |  |  |  |  |  |  | X |  |  | X |  |  |  |
| [**Q14/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q14.aspx) | X |  | X |  |  |  |  |  |  |  | X |  |  |  |
| [**Q15/11**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/11/Pages/q15.aspx) |  |  |  |  |  | ~~X~~ |  |  |  |  | X |  |  |  |
| **ITU-T SG12** | [**Q1/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q1.aspx) |  |  |  |  |  | ~~X~~ |  |  |  |  | ~~X~~ |  |  |  |
| [**Q2/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q2.aspx) | X | X |  |  |  | X |  |  |  |  |  |  |  |  |
| [**Q3/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q3.aspx) |  |  |  |  |  |  | X |  |  |  | X |  |  |  |
| [**Q4/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q4.aspx) |  |  |  |  |  |  |  |  |  |  |  | X |  |  |
| [**Q5/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q5.aspx) |  |  |  |  |  |  | X |  |  |  |  |  |  |  |
| [**Q6/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q6.aspx) |  |  |  |  |  |  | X |  |  |  |  |  |  |  |
| [**Q7/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q7.aspx) |  | ~~X~~ |  |  |  | X |  |  |  |  |  |  |  |  |
| [**Q8/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q8.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q9/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q9.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q10/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q10) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q11/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q11.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q12/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q12.aspx) | X |  |  |  |  | X |  |  |  |  |  |  |  |  |
| [**Q13/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q13.aspx) | X | X | X |  |  | X |  |  |  |  |  |  |  |  |
| [**Q14/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q14.aspx) |  | ~~X~~ |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q15/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q15.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q16/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q16.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q17/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q17.aspx) | ~~X~~ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q18/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q18.aspx) |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q19/12**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/12/Pages/q19.aspx) | ~~X~~ | X |  |  |  |  |  |  |  |  |  |  |  |  |
| **ITU-T SG13** | [**Q1/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q1.aspx) | X |  |  |  |  |  |  | X |  |  |  |  |  |  |
| [**Q2/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q2.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q5/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q5.aspx) | X |  | X |  |  |  |  |  |  |  |  |  |  |  |
| [**Q6/13**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q6.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q7/13**](https://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q7.aspx) | X |  | X |  |  |  |  |  |  |  |  |  |  |  |
| [**Q16/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q16.aspx) |  |  |  |  |  |  |  | X |  | X |  |  |  |  |
| [**Q17/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q17.aspx) |  |  | X |  |  |  |  |  |  |  |  |  |  |  |
| [**Q18/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q18.aspx) |  |  | X |  |  |  |  |  |  |  |  |  |  |  |
| [**Q19/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q19.aspx) |  |  | X |  |  |  |  |  |  | X |  |  |  |  |
| [**Q20/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q20.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q21/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q21.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q22/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q22.aspx) | X |  |  |  |  |  |  | X |  |  |  |  |  |  |
| [**Q23/13**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/13/Pages/q23.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **ITU-T SG15** | [**Q1/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q1.aspx) | X |  | X |  | X |  |  | X | X | X |  | X |  |  |
| [**Q2/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q2.aspx) | X |  |  |  |  |  |  | X |  |  |  |  |  |  |
| [**Q3/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q3.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q4/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q4.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q5/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q5.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q6/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q6.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q7/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q7.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q8/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q8.aspx) | ~~X~~ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q9/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q9.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q10/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q10.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q11/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q11.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q12/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q12.aspx) | X |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q13/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q13.aspx) | ~~X~~ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q14/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q14.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q15/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q15.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q16/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q16.aspx) | X |  |  |  | X |  |  | X |  |  |  | X |  |  |
| [**Q17/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q17.aspx) |  |  |  |  |  |  |  |  |  |  |  | X |  |  |
| [**Q18/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q18.aspx) | X |  |  |  |  |  |  | ~~X~~X |  |  |  |  |  |  |
| [**Q19/15**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/q19.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **ITU-T SG16** | [**Q1/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q1.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q5/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q5.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q6/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q6.aspx) |  | ~~X~~ |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q7/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q7.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q8/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q8.aspx) |  | X |  |  |  |  |  |  |  |  |  | X |  |  |
| [**Q11/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q11.aspx) | ~~X~~ | ~~X~~ |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q13/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q13.aspx) | X | X |  |  |  |  |  |  |  |  | X |  |  |  |
| [**Q14/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q14.aspx) |  |  |  |  |  |  |  | X |  |  |  | X |  |  |
| [**Q21/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q21.aspx) | X | X | X |  | X |  |  | X |  |  |  |  |  |  |
| [**Q22/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q22.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q24/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q24.aspx) |  |  |  |  |  |  | X | X |  |  |  |  |  |  |
| [**Q26/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q26.aspx) |  | X |  |  |  |  | X |  |  | X | X | X |  |  |
| [**Q27/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q27.aspx) |  |  |  |  |  |  |  | X |  |  |  |  |  |  |
| [**Q28/16**](http://itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/q28.aspx) |  |  |  |  |  |  |  |  | X |  | X |  |  |  |
| **ITU-T SG17** | [**Q1/17**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q1.aspx) |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| [**Q2/17**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q2.aspx) | X |  |  |  |  |  |  |  |  | X |  |  |  |  |
| [**Q3/17**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q3.aspx) |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| [**Q4/17**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q4.aspx) |  |  |  |  |  | X |  | X |  | X |  |  |  |  |
| [**Q5/17**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q5.aspx) |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| [**Q6/17**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q6.aspx) | X | X |  |  |  |  |  | X |  | X |  |  |  |  |
| [**Q7/17**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q7.aspx) | X | X | X |  |  |  |  |  |  | X |  |  |  |  |
| [**Q8/17**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q8.aspx) |  |  | X |  |  |  |  |  |  | X |  |  |  |  |
| [**Q9/17**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q9.aspx) |  |  |  |  |  |  |  |  | X | X |  |  |  |  |
| [**Q10/17**](http://itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q10.aspx) |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| [**Q11/17**](http://itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q11.aspx) | X |  |  |  |  |  |  | X |  | X |  |  |  |  |
| [**Q12/17**](http://itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q12.aspx) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| [**Q13/17**](http://itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q13.aspx) |  |  | X |  |  |  |  | X |  | X |  |  |  |  |
| [**Q14/17**](http://itu.int/en/ITU-T/studygroups/2017-2020/17/Pages/q14.aspx) |  |  | X |  |  |  |  |  |  | X |  |  |  |  |
| **ITU-T SG20** | [**Q1/20**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/20/Pages/q1.aspx) |  |  |  |  |  |  |  | ~~X~~X |  |  |  |  |  |  |
| [**Q2/20**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/20/Pages/q2.aspx) | X |  |  | X | X |  | X | X | X |  |  | X | X |  |
| [**Q3/20**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/20/Pages/q3.aspx) | X |  |  |  |  |  |  | X |  | X |  | X |  |  |
| [**Q4/20**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/20/Pages/q4.aspx) |  |  |  |  | ~~X~~ |  |  | X | X |  |  | X | X |  |
| [**Q5/20**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/20/Pages/q5.aspx) |  |  |  |  |  |  |  | X |  |  |  |  |  |  |
| [**Q6/20**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/20/Pages/q6.aspx) |  |  |  |  |  |  |  | X |  | X | X |  |  |  |
| [**Q7/20**](http://www.itu.int/en/ITU-T/studygroups/2017-2020/20/Pages/q7.aspx) |  |  |  |  |  | ~~X~~ |  | X | X |  |  |  |  |  |

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**Annex 7: Templates for capturing possible linkages with ITU work on statistics and related requirements**

**Table 1: Example of coordination of the activities of EGH and EGTI with the work of the ITU-D study groups**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Question | EGTI | | | | | | EGH | | | | | |
| ICT prices | International roaming indicators | 5G indicators | QoS | Convergence | IoT | Measurement of ICT skills | Measurement of Internet users | E-waste | Child online protection | Community connectivity indicator | Disability |
| **ITU-D Study Group 1** | | | | | | | | | | | | |
| **1/1** |  |  | **х** |  | **х** |  |  |  |  |  |  |  |
| **2/1** |  |  |  |  |  |  |  |  |  |  |  |  |
| **3/1** |  |  |  |  |  |  |  |  |  |  |  |  |
| **4/1** | **х** | **х** |  |  |  |  |  |  |  |  |  |  |
| **5/1** |  |  |  |  |  |  |  |  |  |  | **х** |  |
| **6/1** |  | **х** |  | **х** |  |  |  |  |  | **х** |  |  |
| **7/1** |  |  |  |  |  |  |  |  |  |  |  | **х** |
| **ITU-D Study Group 2** | | | | | | | | | | | | |
| **1/2** |  |  |  |  |  | **х** | **х** |  |  |  | **х** |  |
| **2/2** |  |  |  |  |  |  |  |  |  |  |  |  |
| **3/2** |  |  |  |  |  |  |  |  |  | **х** |  |  |
| **4/2** |  |  |  |  |  |  |  |  |  |  |  |  |
| **5/2** |  |  |  |  |  |  |  |  |  |  |  |  |
| **6/2** |  |  |  |  |  |  |  |  | **х** |  |  |  |
| **7/2** |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Table 2: Associating the terms of references of ITU-D Study Questions with indicators included in World Telecommunication/ICT Indicators Database 2019** (not including new possible proposed indicators) | |
| **Study Group 1** | |
| **Study Question** | **Indicator** |
| **1/1** | * Total capacity of local public switching exchanges * Fixed (wired)- broadband Internet traffic (exabytes) * Mobile-broadband Internet traffic (within the country); in exabytes * International Internet bandwidth per Internet user * Fixed broadband subscriptions per 100 inhabitants * Standard mobile-broadband subscriptions per 100 inhabitants * Dedicated mobile data subscriptions per 100 inhabitants * Active mobile-broadband subscriptions per 100 inhabitants * Annual investment in fixed (wired)-broadband services * Annual investment in fixed (wired)-broadband services; in USD * DSL Internet subscriptions * Fibre-to-the-home/building Internet subscriptions * Other fixed (wired)-broadband subscriptions * Fixed-broadband subscriptions * Cable modem Internet subscriptions * Fixed (wired)-broadband connection charge * Fixed broadband Internet connection charge (US$) * Fixed (wired)-broadband monthly subscription charge * Fixed broadband Internet monthly subscription (US$) * Price for Fixed (wired)-broadband cap; in GB * Fixed (wired)-broadband - price of excess usage per GB * Price for Fixed (wired)-broadband speed * Percentage of the population covered by at least a 3G mobile network * Percentage of the population covered by at least an LTE/WiMAX mobile network * Terrestrial fixed wireless broadband subscriptions * Satellite broadband subscriptions * International Internet bandwidth * Subscriptions to fixed-broadband; fixed-telephone and pay-TV bundles * Subscriptions to fixed-broadband and fixed-telephone bundles * 256 kbit/s to less than 2 Mbit/s subscriptions * 2 Mbit/s to less than 10 Mbit/s subscriptions |
| **2/1** | * Proportion of households with a TV * IPTV subscriptions * Terrestrial multichannel TV subscriptions * Cable-TV subscriptions * Multichan nel TV subscriptions * Other TV subscriptions * Satellite-TV subscriptions |
| **3/1** | * - |
| **4/1** | * Installation fee for residential telephone service * Connection fee for residential telephone service (US$) * Installation fee for business telephone service * Installation fee for business telephone service * Mobile cellular postpaid connection charge * Mobile cellular postpaid connection charge (US$) * Mobile-cellular prepaid connection charge * Mobile-cellular prepaid connection charge (US$) * Monthly subscription for residential telephone service * Monthly subscription for business telephone service; US$ * Monthly subscription for business telephone service * Monthly subscription for business telephone service (US$) * Mobile cellular monthly subscription charge * Mobile cellular monthly subscription charge (US$) * Price of a three-minute local call to a fixed-telephone line; peak rate * Price of a three-minute local call to a fixed-telephone line; peak rate; USD * Mobile cellular; Tax rate * Mobile cellular – call connection charge * Mobile cellular – call connection charge (US$) * Mobile cellular – price of a one-minute local call (peak; to fixed) * Mobile cellular – price of a one-minute local call (peak; to fixed) (US$) * Mobile cellular – price of a one-minute local call (peak; on-net) * Mobile cellular – price of a one-minute local call (peak; on-net) (US$) * Mobile cellular – price of a one-minute local call (peak; off-net) * Mobile cellular – price of a one-minute local call (peak; off-net) (US$) * Mobile cellular – price of one-minute local call (off-peak; to fixed) * Mobile cellular – price of one-minute local call (off-peak; to fixed) (US$) * Mobile cellular – price of a one-minute local call (off-peak; on-net) * Mobile cellular – price of a one-minute local call (off-peak; on-net) (US$) * Mobile cellular – price of a one-minute local call (off-peak; off-net) * Mobile cellular – price of a one-minute local call (off-peak; off-net) (US$) * Mobile cellular – price of SMS (on-net) * Mobile cellular – price of SMS (on-net) (US$) * Mobile cellular – price of SMS (off-net) * Mobile cellular – price of SMS (off-net) (US$) * Mobile cellular - price of 3 minute local call (peak) * Mobile cellular - price of 3 minute local call (peak)(US$) * Mobile cellular - price of 3 minute local call (off-peak) * Mobile cellular - price of 3 minute local call (off-peak)(US$) * Price of a three-minute local call to a fixed-telephone line; off-peak rate * Price of a three-minute local call to a fixed-telephone line; off-peak rate; USD * Mobile-cellular prepaid? price of a one-minute local call (peak; to fixed) * Mobile cellular prepaid? price of local call per minute (peak; to fixed)(US$) * Mobile-cellular prepaid? price of a one-minute local call (peak; on-net) * Mobile-cellular prepaid? price of a one-minute local call (peak; on-net) (US$) * Mobile-cellular prepaid - price of a one-minute local call (peak; off-net) * Mobile cellular prepaid? price of local call per minute (peak; off-net)(US$) * Mobile-cellular prepaid? price of one-minute local call (off-peak; to fixed) * Mobile cellular prepaid? price of local call per minute (off-peak; to fixed)(US$) * Mobile-cellular prepaid? price of a one-minute local call (off-peak; on-net) * Mobile-cellular prepaid? price of a one-minute local call (off-peak; on-net (US$) * Mobile-cellular prepaid? price of a one-minute local call (off-peak; off-net) * Mobile cellular prepaid? price of local call per minute (off-peak; off-net) (US$) * Mobile-cellular prepaid? price of SMS (on-net) * Mobile cellular prepaid? price of SMS (on-net); (US$) * Mobile-cellular prepaid? price of a one-minute local call (weekend; to fixed) * Mobile cellular prepaid? price of local call per minute (weekend/evening; to fixed)(US$) * Mobile-cellular prepaid? price of a one-minute local call (weekend; on-net) * Mobile-cellular prepaid? price of a one-minute local call (weekend; on-net) (US$) * Mobile cellular prepaid? price of local call per minute (weekend/evening; off-net) * Mobile cellular prepaid? price of local call per minute (weekend/evening; off-net) (US$) * Mobile-cellular prepaid? price of SMS (off-net) * Mobile cellular prepaid? price of SMS (off-net) (US$) * Fixed-broadband Internet 5GB; LC * Fixed-broadband Internet 5GB; USD * Fixed-broadband Internet 5GB; as a % of GNI pc * Fixed-broadband Internet 5GB; PPP$ * Mobile cellular - low usage (70 min; 20 SMS); LC * Mobile cellular - low usage (70 min; 20 SMS); USD * Mobile cellular - low usage (70 min; 20 SMS); as a % of GNI pc * Mobile cellular - low usage (70 min; 20 SMS); PPP$ * Annual investment in fixed (wired)-broadband services * Annual investment in fixed (wired)-broadband services; in USD * Revenue from mobile networks * Revenue from mobile networks (US$) * Revenue from all telecommunication services * Revenue from all telecommunication services (US$) * Annual investment in telecommunication services * Annual investment in telecommunication services (US$) * Annual foreign investment in telecommunications * Annual investment in mobile communication services * Mobile communication investment (US$) * Fixed (wired)-broadband connection charge * Fixed broadband Internet connection charge (US$) * Fixed (wired)-broadband monthly subscription charge * Fixed broadband Internet monthly subscription (US$) * Price for Fixed (wired)-broadband cap; in GB * Fixed (wired)-broadband - price of excess usage per GB * Price for Fixed (wired)-broadband speed * Price per additional GB (US$) * Data-only mobile broadband 1.5 GB; LC * Data-only mobile broadband 1.5 GB; USD * Data-only mobile broadband 1.5 GB; as a % of GNI pc * Data-only mobile broadband 1.5 GB; PPP$ * Mobile broadband; 1.5GB; price of the plan * Mobile broadband; 1.5GB; price of the plan (US$) * Mobile broadband; 1.5GB; cap; in GB * Mobile broadband; 1.5GB; price of excess usage; per GB * Mobile broadband; 1.5GB; price of excess usage; per GB (US$) * High usage bundle (140 min; 70 SMS; 1.5 GB); LC * High usage bundle (140 min; 70 SMS; 1.5 GB); USD * High usage bundle (140 min; 70 SMS; 1.5 GB); as a % of GNI pc * High usage bundle (140 min; 70 SMS; 1.5 GB); PPP$ * Mobile broadband; high usage; price of the plan * Mobile broadband; high usage; price of the plan (US$) * Mobile broadband; high usage; cap; in GB Prices * Mobile broadband; high usage; price of excess usage; per GB * Mobile broadband; high usage; price of excess usage; per GB (US$) * Mobile broadband; high usage; minutes included * Mobile broadband; high usage; SMS included * Mobile broadband; high usage; tax rate included * Mobile broadband; high usage; validity of plan (days) * Mobile broadband; high usage; price of excess voice; per minute * Mobile broadband; high usage; price of excess voice; per minute (US$) * Mobile broadband; high usage; price of excess SMS; per SMS * Mobile broadband; high usage; price of excess SMS; per SMS (US$) * Low usage bundle (70 min; 20 SMS; 500 MB); LC * Low usage bundle (70 min; 20 SMS; 500 MB); USD * Low usage bundle (70 min; 20 SMS; 500 MB); as a % of GNI pc * Low usage bundle (70 min; 20 SMS; 500 MB); PPP$ * Mobile broadband; low usage; price of the plan * Mobile broadband; low usage; price of the plan (US$) * Mobile broadband; low usage; cap; in MB * Mobile broadband; low usage; price of excess usage; per MB * Mobile broadband; low usage; price of excess usage; per MB (US$) * Mobile broadband; low usage; minutes included * Mobile broadband; low usage; SMS included * Mobile broadband; low usage; validity of plan (days) * Mobile broadband; low usage; price of excess voice * Mobile broadband; low usage; price of excess voice; per minute (US$) * Mobile broadband; low usage; price of excess SMS; per SMS * Mobile broadband; low usage; price of excess SMS; per SMS (US$) * Handset\_500MB; postpaid; Speed; in Mbit/s * Handset\_500MB; postpaid; price of the plan * Handset\_500MB; postpaid; price of the plan; in USD * Handset\_500MB; postpaid; cap; in MB * Handset\_500MB; postpaid; price of excess usage; per MB * Handset\_500MB; postpaid; price of excess usage; per MB; per MB; in USD * Handset\_500MB; postpaid; tax rate included * Handset\_500MB; postpaid; validity of plan (days) * Handset\_500MB; prepaid; Speed; in Mbit/s * Handset\_500MB; prepaid; price of the plan * Handset\_500MB; prepaid; price of the plan; in USD * Handset\_500MB; prepaid; cap; in MB * Handset\_500MB; prepaid; price of excess usage; per MB * Handset\_500MB; prepaid; price of excess usage; per MB; in USD * Handset\_500MB; prepaid; tax rate included * Handset\_500MB; prepaid; validity of plan (days) * Mobile broadband; 1.5GB; tax rate included * Mobile broadband; 1.5GB; validity of plan (days) * USB\_1GB; postpaid; Speed; in Mbit/s * USB\_1GB; postpaid; price of the plan * USB\_1GB; postpaid; price of the plan; in USD * USB\_1GB; postpaid; cap; in GB * USB\_1GB; postpaid; price of excess usage; per GB * USB\_1GB; postpaid; price of excess usage; per GB; in USD * USB\_1GB; postpaid; tax rate included * USB\_1GB; postpaid; validity of plan (days) * USB\_1GB; prepaid; Speed; in Mbit/s * USB\_1GB; prepaid; price of the pla * USB\_1GB; prepaid; price of the plan; in US * USB\_1GB; prepaid; cap; in GB * USB\_1GB; prepaid; price of excess usage; per GB * USB\_1GB; prepaid; price of excess usage; per GB; in USD * USB\_1GB; prepaid; tax rate included * USB\_1GB; prepaid; validity of plan (days) * Fixed-broadband connection charge * Fixed-broadband connection charge (US$) * Fixed-broadband monthly subscription charge * Fixed-broadband monthly subscription charge (US$) * Price for Fixed-broadband cap; in GB * Fixed broadband - price of excess usage per GB * Fixed broadband - price of excess usage per GB (US$) * Price for Fixed-broadband speed; in Mbit/s * Fixed broadband; tax rate |
| **5/1** | * Public payphones * Total capacity of local public switching exchanges * Proportion of households with a mobile cellular telephone * Estimated proportion of households with a computer * Internet users * Public payphones per 1000 inhabitants |
| **6/1** | * - |
| **7/1** | * - |

**Table 3: Template for capturing possible linkages between study Questions and ITU’s work on statistics**

**Example for ITU-D Study Group 1 Question 7/1**

Question 7/1 would like to express its interest in further collaboration and information/expertise sharing with the following EGTI/EGH 2020 agenda items: (reference document [1/322](https://www.itu.int/md/D18-SG01-c-0322))[[4]](#footnote-5)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Question** | **EGTI** | | | | | | **EGH** | | | | | |
| **ICT prices** | **International roaming indicators** | **5G indicators** | **QoS** | **Convergence** | **IoT** | **Measurement of ICT skills** | **Measurement of Internet users** | **E-waste** | **Child online protection** | **Community connectivity indicator** | **Disability** |
| **7/1** |  |  |  |  |  |  |  |  |  |  |  | **X** |

**1.a** If you put an “X” please provide the information that could be shared with EGTI/EGH (bullets or 2-3 sentences)

***Input:*** *Accessibility indicators were mentioned as a useful tool for SDG monitoring. However, it was noted that Member-States face challenges in collecting this type of data. Study Question 7/1 would like to suggest a possible way that can be used to collect more relevant data on ICT accessibility.*

*The annual World Telecommunication/ICT Regulatory Survey of the Telecommunication Development Bureau (BDT) has a question on accessibility “7. Current regulatory Issues 7.1 Accessible ICTs”. Question 7/1 propose to move “Accessible ICTs” from “7. Current Regulatory Issues” to “4. Regulatory Issues and Processes” and expand it with additional questions in line with other sub points:*

**4.n Accessible ICTs**

**4.n.1** Is the Regulatory Authority is responsible for accessible ICTs?

□ Yes

□ No

4.n.1.1 If no, please indicate if any other authority or agency is responsible for accessible ICTs\_\_\_\_\_\_\_\_\_\_

**4.n.2** Is there a specific accessible ICTs legislation/regulation in your county?

□ Yes

□ No

4.n.2.1 If yes, please specify\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4.n.2.2 If no, please indicate whether accessible ICTs are covered in other legislation/regulation\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.n.3** If accessible ICTs are covered in legislation/regulation in your country please indicate which areas are addressed:

□ *Mobile communication accessibility;*

□ *Television/video programming accessibility;*

□ *Web accessibility;*

□ *Public ICT accessibility (e.g. payphones and telecentres);*

□ *Public procurement for accessible ICTs*

□ *Other, please specify\_\_\_\_\_\_\_\_\_*

**4.n.4** Is there a separate Accessibility Agency?

□ Yes

□ No

4.n.4.1 If yes, please provide the contact details of the Agency:

*Name of the entity*

*Area of the responsibility/activity*

*Entity’s website*

*Name of the focal point*

*Email of the focal point*

**4.n.5** Do accessibility requirements are set for operators or service providers in your country?

□ Yes

□ No

4.n.5.1 If yes, please specify (e.g. special discounts or tariffs for PwD, subtitles/audiodescription TV content, etc.)

**1.b** If you put a “V” please identify the information/statistical data that could be asked from EGTI/EGH (bullets)

1. Study Question 7/1 has comments/suggestions/proposals/questions regarding following areas of EGTI/EGH activities or WTID (reference documents [1/273](https://www.itu.int/md/d18-sg01-c-0273), [1/274](https://www.itu.int/md/d18-sg01-c-0274), [1/322](https://www.itu.int/md/D18-SG01-c-0322), [1/356](https://www.itu.int/md/D18-SG01-c-0356))[[5]](#footnote-6)

a)***Input:*** *As there are no current activities in EGTI/EGH on ICT accessibility indicators Question 7/1 would like to inform EGTI/EGH on its wide expertise in terms of ICT accessibility, and would like to inform that several contributions on national experience in ICT accessibility indicators were received (docs* [*255*](https://www.itu.int/md/D18-SG01.RGQ-C-0255/en)*,* [*80*](https://www.itu.int/md/D18-SG01.RGQ-C-0080/en) *and* [*91*](https://www.itu.int/md/D18-SG01.RGQ-C-0091/en) *). If needed Question 7/1 can provide relevant assistance on terminology in order to help Member-States to formulate questions in surveys/questionaries’ correctly taking into account the sensitivity of accessibility issues.*

b)

c)

…

1. In accordance with its ToR, identified by WTDC-17, Study Question 7/1 asks EGTI/EGH to assist in providing the relevant statistical information on the following areas[[6]](#footnote-7)

***Input:*** *Currently Question 7/1 has no requests on additional statistical data from EGTI/EGH*

**Annex 8: Preliminary views on the Future of ITU-D Study Group 1 Questions**

**Question 1/1: Strategies and policies for the deployment of broadband in developing countries**

The group is of the view that the question has to continue and the topics of interest to be reflected in the next study period would include: (i) policies, strategies and regulatory aspects of broadband, (ii) broadband access technologies, (iii) financing and investment aspects of broadband, (iv) impact of COVD-19 and other pandemics on broadband networks, (v) digital transformation/infrastructure and (vi) co-deployment & sharing broadband infrastructure with other infrastructural networks. The approach the group understands best would be a holistic approach addressing the study in a broader perspective.

**Question 2/1: Strategies, policies, regulations and methods of migration and adoption of digital broadcasting and implementation of new services**

The group understands that the question should continue by taking broadcasting in a more general manner, considering the relationship among content delivery networks and evaluating the new video-centric converged service providers from the regulatory, economic and technical points of view. The items of study for the next study period would include: (i) transition from traditional digital broadcasting to video-centric converged service providers, (ii) strategies of introducing new broadcasting technologies, emerging services and applications, (iii) best practices on spectrum planning related to the referred transition, (iv) costs of the referred transition, and (v) the digital dividend.

**Question 3/1: Emerging technologies, including cloud computing, m-services and OTT:** **challenges and opportunities, economic and policy impact for developing countries**

The group is of the understanding that question should continue considering that the combination of m-Services and the Cloud create a solid foundation for digital transformation the world is experiencing, though not everywhere and not at the same speed. With the addition of IoTs (Internet Of Things, or smart connected Objects), we have a better and more complete view of where the world will be going in terms of services, that in times of pandemics, enables most business continuity. The items of study would include: (i) how do we unleash this vision, (ii) scenarios and use cases across many sectors, (iii) regulatory and policy blockers, (iv) business and investment scenarios that help deploy this vision, and (v) relevant case studies.

**Question 4/1: Economic policies and methods of determining the costs of services related to national telecommunication/ICT networks**

The group is of the view that the question should continue with the focus and coordination on economic aspects of national telecommunications/ICT markets, studying the related topics and collaborating with other sectors and on statistics within ITU-D. The items of study for the new study period would include: economic impact on the value chain of (i) ICTs and (ii) OTTs, (iii) new types and modes of investment, (iv) design of tariffs, (v) economic aspects/implications of digital taxation approaches, (vi) new business models, (vii) economic incentives for bridging the digital divide, (viii) national aspects of digital financial inclusion, (ix) new economic aspects affected by national telecom/ICT market environment, and (x) economic regulatory aspects of national telecom/ICT.

**Question 5/1: Telecommunications/ICTs for rural and remote areas**

The group is of the view that question is important and needs to be continuously updated and evolved to take into account (i) the changing pace of technology, (ii) new policies for connectivity in rural and remote areas, (iii) solutions and guidelines on how these communities can be capacitated to deal with pandemics such as COVID-19, (iv) case studies, (v) possible review and recommendations of universal service funds, and (vi) the role of innovation in rural ICT and other rural business startups for developing applications and services for rural and remote areas. These would be the topics for future study on the question, which would not be a silo and would collaborate with other groups.

**Question 6/1: Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks**

The group is of the view that the question should continue due to the relevance of consumer protection in such a dynamic sector and as technology and business models keep changing. Also, because member states are at various stages of adoption of new technologies and regulatory evolution and need to prepare themselves to industry 4.0 and the fifth-generation regulations. The items of study would include: (i) consumer education and awareness, (ii) development of capacities to cope with periods of pandemics such as the COVID-19, (iii) linkages to competitive service provisioning, protection of innovation and data in telecom networks, (iv) responsible use of new technologies, and (v) fostering consumer trust in new technologies while protecting innovation through self-regulation and co-regulation.

**Question 7/1: Access to telecommunication/ICT services by persons with disabilities and other persons with specific needs**

The group is of the view that the question should continue to ensure that information, products and services are accessible to all people regardless of their gender, age, ability, location or financial means. Therefore, timely implementation of right enabling environments is key to sustainable development, especially in times of pandemics, where ICT accessibility has to be a political priority. The items of study would include: (i) leverage digital accessibility as a priority; (ii) national programs and strategies on education and training at the country level; (iii) digital accessibility resources including education and training to increase expertise at a national, regional and global level and facilitate the appropriate implementation of policies and (iv) innovative accessible digital solutions and ICT applications for an independent life.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The SG1 2020 photos are available at: <https://www.flickr.com/photos/itupictures/albums/72157713145396718> [↑](#footnote-ref-2)
2. The BDT Director’s speech may be found at this hyperlink: <https://www.itu.int/en/ITU-D/bdt-director/Pages/Speeches.aspx?ItemID=235> [↑](#footnote-ref-3)
3. “Topic of interest” points out the subjects in the contribution submitted to Questions that relates to the topics of Annex 1 of Resolution 9, to be considered as input for the work to be conducted in the implementation of the Resolution. [↑](#footnote-ref-4)
4. Rapporteurs can tag possible areas of mutual interest in accordance with the proposed table in document 1/322. Insert an “X” if you would like to ask EGTI/EGH for additional information/indicators, or a “V” if you would like to share relevant experience/expertise from your perspective with EGTI/EGH. [↑](#footnote-ref-5)
5. Rapporteurs are invited to share their thoughts/concerns/suggestions with regard to EGTI/EGH activities. [↑](#footnote-ref-6)
6. If not covered in 1.b [↑](#footnote-ref-7)