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| **Logo, company name  Description automatically generated** | A close up of a sign  Description automatically generated**World Telecommunication Development Conference (WTDC-22)**  **Kigali, Rwanda, 6-16 June 2022** | |
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|  | | **Revision 1 to  Document WTDC-22/6-E** |
|  | | **25 May 2022** |
|  | | **Original: English** |
| Chairman, ITU-D Study Group 1 | | |
| ITU-D Study Group 1 Activities for the Seventh study period between WTDC-17 and WTDC-22 | | |
|  | | |
| **Summary:**  The study groups of the ITU Telecommunication Development Sector (ITU-D) provide a neutral platform where experts from governments, industry, telecommunication organizations and academia from around the world gather to produce practical tools and resources to address development issues. Questions for study are decided every four years at the World Telecommunication Development Conference (WTDC).  ITU-D Study Group 1 (SG1) was established to examine issues relating to the enabling environment for the development of telecommunications/information and communication technologies (ICTs). To that end the ITU-D membership assembled at WTDC-17 (Buenos Aires, 2017) adopted seven study Questions. This report summarizes the activities carried out for the seventh study period (2018-2022).  **Expected results:**  WTDC-22 is invited to note this document.  **References:**  [TDAG-18/12](https://www.itu.int/md/D18-TDAG23-C-0012/en), [TDAG-19/12](https://www.itu.int/md/D18-TDAG24-C-0012/en), [TDAG-20/12](https://www.itu.int/md/D18-TDAG25.2-C-0012/en), [TDAG-21/8](https://www.itu.int/md/D18-TDAG28-C-0008/en), [TDAG-21/2/5](https://www.itu.int/md/D18-TDAG29-C-0005/en), [1/REP/8](https://www.itu.int/md/D18-SG01-R-0008/en) (2018), [1/REP/16](https://www.itu.int/md/D18-SG01-R-0016/en) (2019), [1/REP/24](https://www.itu.int/md/D18-SG01-R-0024/en) (2020), [1/REP/32](https://www.itu.int/md/D18-SG01-R-0032/en) (2021), [1/REP/33](https://www.itu.int/md/D18-SG01-R-0033/en) (2021), [SG1RGQ/REP/22](https://www.itu.int/md/D18-SG01.RGQ-R-0022/en) (2020), [SG1RGQ/REP/23](https://www.itu.int/md/D18-SG01.RGQ-R-0023/en) (2021) | | |

# Introduction

This report covers the seventh study period for ITU-D Study Group 1 (SG1), between WTDC-17 and WTDC-22. Study Group 1 concluded its work at its final meeting held in Geneva from 11 to 15 October 2021. The key results for the study period 2018-2022 are:

* 7 revised terms of reference, i.e. one for each Question (**Annex 6**);
* 7 output reports[[1]](#footnote-1);
* 1 guideline on cost modelling (Question 4/1);
* 6 annual deliverables (two deliverables for Question 2/1, a joint deliverable for Question 3/1 and 4/1, two deliverables for Question 5/1, and one deliverable for Question 6/1);
* 4 annual study group meetings from 2018 to 2021;
* 4 annual rapporteur group meetings from 2018 to 2021;
* 6 video interviews of (co-)authors of the annual deliverables;
* 7 short video clips[[2]](#footnote-2) each illustrating the work and output report of a study Question;
* 6 webinars[[3]](#footnote-3) in the 2020 “Reflections on COVID-19” series;
* participation in several WSIS 2020 and WSIS 2021 sessions[[4]](#footnote-4);
* 15 workshops[[5]](#footnote-5);
* 8 ITU News blogs[[6]](#footnote-6), which were also featured in the ITU News Magazine[[7]](#footnote-7);
* 140 incoming liaison statements (SG1 and rapporteur group meetings);
* 79 outgoing liaison statements (SG1 and rapporteur group meetings);
* 543 unique contributions from the ITU-D membership excluding BDT contributions (Table 2);
* 1284 documents considered in 9 (+ 1 informal) SG1 and rapporteur group meetings (Table 3);
* 1300 participants in 9 (+ 1 informal) SG1 and rapporteur group meetings (Table 1);
* 3 records were set as follows:
  + 168 SG1 plenary-level meeting participants in the September 2020 meeting (the highest number recorded for this level of meeting);
  + 182 rapporteur group meeting participants (a record reached for this group in the third meeting in 2020);
  + 41 per cent of SG1 plenary and rapporteur group participants were women (a milestone reached in the October 2021 meetings).
* The SG1 management team also contributed to other ITU work, including:
  + Global Symposium for Regulators (GSR) and GSR+[[8]](#footnote-8);
  + Regional Economic Dialogues (REDs);
  + Regional Development Forums (RDFs);
  + WSIS 2020 and 2021;
  + Regional Preparatory Meetings (RPMs);
  + Interregional Meetings (IRMs);
  + Network of Women (NoW) Initiative webinars;
  + the Last-mile Connectivity Toolkit;
  + Digital Regulatory Handbook and online platform;
  + ITU training on quality of service (QoS).

## Mandate and outcomes

Study Group 1 was established in accordance with Resolution 2 (Rev. Buenos Aires, 2017) to examine issues relating to the ***enabling environment for the development of telecommunications/information and communication technologies*** on the basis of Questions adoptedby the ITU-D membership at WTDC-17. The scope of Study Group 1 is described in detail in that resolution, specifically on page 246 of the Final Report of WTDC-17.

The formal titles of the study group Questions are as follows:

* Q1/1: Strategies and policies for the deployment of broadband in developing countries
* Q2/1: Strategies, policies, regulations and methods of migration and adoption of digital broadcasting and implementation of new services
* Q3/1: Emerging technologies, including cloud computing, m-services, and OTTs: Challenges and opportunities, economic and policy impact for developing countries
* Q4/1: Economic policies and methods of determining the cost of services related to national telecommunication/ICT networks
* Q5/1: Telecommunication/ICT for rural and remote areas
* Q6/1: Consumer information, protection and rights: laws, regulation, economic bases, consumer networks
* Q7/1: Access to telecommunication/ICT services by persons with disabilities and other persons with specific needs

These topics were adopted by WTDC-17 with the intention of all deliverables being completed in four years.

At the first SG1 meeting in **April 2018**, the SG1 management teams prepared **work plans** for all seven Questions and published them in their [respective meeting reports](https://www.itu.int/md/D18-SG01-180430-R/en).These plans described how the expected outputs called for by WTDC-17 for each Question would be achieved, and also specified milestones, activities, due dates, and responsible parties. By **September 2018**, the management teams had prepared and presented **preliminary draft outlines** for all WTDC expected output reports. In **April 2019**, the first ITU-D SG1 **annual deliverable** on “Trends in new broadcasting technologies, services and applications” was approved. By **February 2020,** **draft final output reports** had been completed for all Questions. In March 2021, ITU-D SG1 **agreed on final reports** for all seven study Questions as well as “Guidelines on cost modelling” for Question 4/1. The final reports and the guidelines were made available as [ITU-D study group publications](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx) free of charge, in all six official languages of ITU by August 2021. Each final report was accompanied by an informational video.

Study Group 1 concluded its work at its final meeting held in Geneva in October 2021, where revised terms of reference for the seven study Questions were refined, agreed and submitted to TDAG.

## Study Group 1 management

WTDC-17 designated the SG1 leadership for the seventh study period (2018-2022) as follows: **Ms Regina Fleur Assoumou Bessou (Côte d’Ivoire)** served as chairman, and was assisted by vice-chairmen representing the six ITU-D regions:

* Mr Peter Ngwan Mbengie (Cameroon): Africa
* Mr Amah Vinyo Capo (Togo): Africa
* Mr Roberto Mitsuake Hirayama (Brazil): Americas
* Mr Victor Martinez (Paraguay): Americas
* Mr Ahmed Abdel Aziz Gad (Egypt): Arab States
* Ms Sameera Belal Momen Mohammad (Kuwait): Arab States
* Mr Yasuhiko Kawasumi (Japan): Asia and the Pacific
* Mr Sangwon Ko (Republic of Korea): Asia and the Pacific
* Mr Almaz Tilenbaev (Kyrgyz Republic): Commonwealth of Independent States (CIS)
* Ms Anastasia Sergeyevna Konukhova (Russian Federation): Commonwealth of Independent States (CIS)
* Mr Vadym Kaptur (Ukraine): Europe
* Ms Amela Odobasic (Bosnia and Herzegovina): Europe
* Mr Krisztián Stefanics[[9]](#footnote-9) (Hungary): Europe

***Study Group 1 vice chairmen***

The SG1 vice-chairmen actively followed the work assigned by WTDC-17, providing sound and valuable advice to the chairman on all issues related to the study group, including staff matters, working methods, and thesubstantive outcomes called for by WTDC-17. Some vice-chairmen were also rapporteurs or co-rapporteurs of study Questions (**Annex 1**). As part of the preparations for WTDC-22 and to explore synergies with key ITU projects and relevant study Questions, some vice chairmen endorsed the role of coordinators (**Annex 2**) together with active rapporteurs. Vice-chairmen were encouraged to work with ITU regional offices and with administrations in their regions to take forward the ICT development agenda. A “regional action guideline for ITU-D study group vice chairmen” (**Annex 3**) was shared to promote a common understanding and harmonized work by vice-chairmen:

* to effectively support WTDC-22 regional preparatory processes especially for future study Questions (Resolution 2) and working methods (Resolution 1); and
* to promote regional engagement in ITU-D study groups and to provide relevant ITU-D study group products to Member States (and relevant entities) in each region.

SG1 management team members were active as speakers in ITU events including GSR, REDs[[10]](#footnote-10), RDFs[[11]](#footnote-11), RPMs (including NoW)[[12]](#footnote-12), the Road to Addis events,[[13]](#footnote-13) WSIS, Accessible Europe, EQUALS sessions, and the Future of TV[[14]](#footnote-14). They contributed as experts to the elaboration of ITU products including the Last-mile Internet Connectivity Solutions Guide[[15]](#footnote-15), the Digital Regulation Handbook and online platform, the QoS ITU online training[[16]](#footnote-16), and the online training course on Emerging Technology for the Last- mile Connectivity[[17]](#footnote-17).

All engagements with the SG1 management team during the 2018-2022 study period were conducted with cooperation, team spirit and professionalism, reflecting each management team member’s sincere dedication to the mission and objectives of the study group. In November 2020, Mr Abdoulaye Dembele, Vice-Rapporteur of Question 7/1 passed away. An ebook was elaborated to pay tribute to this well-respected and committed SG1 member and it was agreed that the final report of Question 7/1 be dedicated to him.

The team of rapporteurs, co-rapporteurs, vice-rapporteurs, and BDT focal points responsible for the SG1 study Questions can be found in **Annex 1**. The full text of study Questions including, *inter alia*, a context statement for each Question, a description of the expected output, and an initial work plan (**Annex 4**) with the required timing for the output, is available on the SG1 website in Document [1/2](file:///C:\Users\AWOTAR\AppData\Roaming\Microsoft\Word\~$2E_V2_Plenary%20SG1%20report.docx)[[18]](#footnote-18).

All BDT focal points at the ITU headquarters and in the regional offices have been instrumental in sharing their expertise for the elaboration of the annual deliverables and the final output reports as well as for the preparation of workshops and webinars. The ITU regional office for Africa focal point for Question 3/1 joined the informal meeting in March 2020 and worked with the rapporteur to elaborate the meeting report. This collaboration is to be noted and used as good practice for the future. Virtual meetings provide a cost-effective opportunity for regional focal points to become more involved in the work of the ITU-D study groups.

## Participation and written contributions (2018-2022 study period)

**Table 1: Participation in meetings**



Note: \*Indicates virtual meetings

Around 131 delegates participated in at least one SG 1 meeting (**Table 1**). On average, annual SG1 meetings were attended by 142 participants, while annual rapporteur group (RGQ) meetings were attended on average by 129 participants. Member States accounted for 72 per cent participation whilst Academia accounted for 3 per cent. On average, a meeting had 37 per cent of female participation. The cumulative total attendees to SG1 and RGQ meetings in the 2018-2022 study period amount to 1219.

**Figure 1: Number of individual participants (per region) for Study Group 1 meetings**

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As indicated in **Figure 1**, the second SG1 meeting (2019) and third RGQ meeting (2020) had the highest number of participants (the first meeting to be held in a virtual format as a consequence of the COVID-19 pandemic).

**Figure 2: Cumulative number of participants (per region) for Study Group 1**

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As indicated in Figure 2, the highest number of participants were from Africa (32 per cent), followed by Asia and Pacific (20 per cent), the Americas (19 per cent), Europe (17 per cent), Arab States (10 per cent), and the Commonwealth of Independent States (2 per cent).

**Figure 3: Number of contributions received (per region) for Study Group 1**

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SG1 received from the ITU-D membership a total of 511 unique contributions (SG1 and RGQ meetings combined), with a regional distribution as indicated in **Figure 3**. Africa (25 per cent), Asia and the Pacific (22 per cent), and the Americas (21 per cent) generated approximately the same share of contributions. This also reflects participant distribution (**Figure 2**) and ITU-D Sector Member distribution per region.

**Table 2: Number of contributions received for Study Group 1 Questions**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Contributions from ITU-D membership received for SG1 and rapporteur group meetings\* | 2018 | 2019 | 2020 | 2021 | Total |
| Q1/1 | 35 | 37 | 28 | 11 | 111 |
| Q2/1 | 8 | 33 | 8 | 3 | 52 |
| Q3/1 | 18 | 24 | 20 | 4 | 66 |
| Q4/1 | 8 | 24 | 4 | 3 | 39 |
| Q5/1 | 23 | 49 | 37 | 13 | 122 |
| Q6/1 | 17 | 42 | 20 | 6 | 85 |
| Q7/1 | 23 | 42 | 27 | 10 | 102 |
| Yearly total cumulative | 132 | 251 | 144 | 50 | 577 |
| Contributions for all Questions (not accounted above) | | | | | +28 |
| Contributions for more than 1 Question but not for all (accounted above) | | | | | -62 |
| Total unique contributions | | | | | **543** |

Note: \*Excludes liaison statements, progress reports, annual deliverables, output reports, contributions to all Questions and contributions from ITU

**Table 2** provides details of contributions received per Question. The highest number of contributions (49) were received for Question 5/1 in 2019. Question 5/1 received the highest (122) total number of contributions between 2018 and 2022, indicating the level of interest and relevance of this Question. The highest cumulative total of contributions (251) was received in 2019.

**Table 3: Documents for SG1 and rapporteur group (RGQ) meetings per year 2018–2021**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Documents for SG1 and RGQ meetings | 2018 | 2019 | 2020 | 2021 |
| Contributions\* from ITU-D membership, SG1 management team and ITU for SG1 Meetings | 53 | 126 | 108 | 51 |
| Incoming liaison statements for SG1 meetings | 29 | 23 | 14 | 7 |
| Outgoing liaison statements from SG1 meetings | 13 | 7 | 7 | 4 |
| Total documents for SG1 meetings (includes ITU contributions, meeting and progress reports) | 142 | 198 | 177 | 132 |
| Contributions\* from ITU-D membership, SG1 management team and ITU for RGQ meetings | 85 | 114 | 93 | 44 |
| Incoming liaison statements for RGQ meetings | 14 | 25 | 16 | 12 |
| Outgoing liaison statements from RGQ meetings | 21 | 14 | 10 | 3 |
| Total documents for RGQ meetings (includes ITU contributions, meeting and progress reports) | 160 | 185 | 183 | 107 |

**Note : \***Contributions exclude liaison statements, progress reports, annual deliverables and output reports

**Table 3** gives an indication of total documents generated which amounts to 1284. A total of 674 contributions (excludes liaison statements, progress reports, annual deliverables and output reports) were reviewed at meetings. Most contributions from ITU-D membership were from ITU-D study group management team members. Most BDT focal points from the ITU headquarters and the regional offices also submitted contributions on their actions in the areas of the study Questions concerned. The Regional Preparatory Meeting (RPM) for Europe,[[19]](#footnote-19) held from 18 to 19 January 2021, received contributions from Member States relevant to study Questions. These Member States were requested to resubmit their contributions to ITU-D study groups. It may be useful for ITU-D membership submitting contributions to future RDFs to also adopt a similar approach. The chairman would like to acknowledge active contributors who were not part of the ITU-D SG1 management team for their participation and dedication to the work of SG1.

The content of each contribution submitted, and each document processed are reviewed by the secretariat prior to posting online. Contributions are key raw materials that are discussed in meetings and analysed by the Question management teams for inclusion in annual deliverables and in final output reports. The relevance, quality and quantity of contributions are reflected in the quality of the annual deliverables and final products of the study groups.

# Tools for results

## Study Group 1 work plan

To help guide SG1 activities, the SG1 chairman shared her “3Is vision” (interaction, innovation and implementation – more information provided in section 7) as well as a work plan for SG1 activities through 2021 ([TDAG-18/12](https://www.itu.int/md/D18-TDAG23-C-0012/)). The work plan (**Annex 4**) includes a timeline, important milestones and other actions towards the completion of the WTDC expected outputs. The work plan was updated throughout the study period.

## Collaborative tools and innovation

Existing secretariat collaborative tools (e.g. SharePoint sites and mailing lists) continued to be used to facilitate electronic participation in the study group work and additional tools were introduced, as needed.Enhancements as from 2020 included:

* online tool for joint simultaneous document editing and for e-meetings;
* online tool for webinars and ITU-D study group and RGQ virtual meetings, with guidelines for chairmen, contributors and participants;
* ITU-D study group webpages enhanced for easier access and better visuals;
* a new ITU-D study group landing page (using ITU standard software) for a harmonized user experience across BDT pages;
* captioning and virtual public chat of study group and RGQ meetings available as administrative documents;
* a world map of contributions submitted by ITU-D Sector Members through data v visualization using an online dashboarding tool (in progress); and
* video clips and social media for sharing information on final output reports.

The **BDT innovation team** presented Document [1/200](https://www.itu.int/md/D18-SG01-C-0200), which shares information of the BDT Innovation Programme work aimed to “strengthen membership capacity to integrate ICT innovations in national development agenda” and “develop strategies that promote innovation initiatives, including through public, private and public-private partnerships”. It highlighted strategies for innovation, and the actions undertaken in the Innovation Programme to support the ITU-D study groups.

## Adapting to the COVID-19 situation

With the COVID-19 situation that arose in March 2020, additional SG1 management team meetings were held online (using Microsoft Teams) to advance the work to prepare for the first virtual ITU-D SG1 rapporteur group meeting, held from 21 September to 2 October 2020.

With the inability to conduct workshops to collect the much-needed inputs to complete the final output reports of the ITU-D SG1 Questions, six webinars were held from May to July 2020 using the Zoom platform. The virtual setting was used successfully, with captioning becoming a standard for all meetings. The raw caption text and the text from the online chat during meetings were captured in an administrative document for each meeting and shared within two days. These documents were useful for reference/cross checks and for preparing reports. Registered participants were invited to test-sessions prior to the online meetings and were provided with guidelines for effective participation. A variation of these guidelines were also prepared for contributors (who intervene online) and for chairmen of online meetings (where clarity and brevity of interventions are critical).

Learning from the first virtual RGQ meeting and with the persisting COVID-19 situation, the following meetings were held virtually: informal ITU-D SG1 rapporteur group meetings from 1 to 5 March 2021, the fourth meeting of ITU-D SG1 from 22 to 26 March 2021, a joint ITU-D study groups (SG1 and SG2) plenary meeting from 31 March to 1April 2021 as well as an extra plenary and RGQ meetings held from 11 to 15 October 2021. The RGQ virtual meeting held on 14 October 2021 was the first ITU-D study group meeting to offer online international sign interpretation, which was very much appreciated and commended.

# Meetings

## Management team meetings

Following the appointment of the chairman and vice-chairmen at WTDC in Buenos Aires, four management team meetings were held on the eve of each annual SG1 meeting. These meetings permitted the chairman, vice-chairmen, rapporteurs, co-rapporteurs, vice-rapporteurs, BDT focal points and secretariat to review the progress of each Question under study, discuss planned and on-going activities, propose ways to manage the work and staff, and discuss ideas to enhance the study group output and procedures.

## Study Group 1 meetings

During the study period, SG1 met six times between 2018 and 2021.

Workshops[[20]](#footnote-20) and webinars[[21]](#footnote-21) were also organized to exchange views beyond ITU-D membership and to capture relevant inputs to enrich annual deliverables and final output reports where needed.

* + 1. **The first annual SG1 meeting[[22]](#footnote-22)** was held in Geneva from 30 April to 4 May 2018. The meeting reviewed and discussed the 84 contributions received and was attended by 131 participants from 57 Member States. Decisions made included:
* Appointment of 9 rapporteurs/co-rapporteurs and 71 vice-rapporteurs to lead the Questions under study;
* Review of the main outcomes from the 2014-2017 study period, SG1 work plan and expectations for the 2018-2022 study period;
* Approval of draft work plans for SG1 and for all study Questions, on tables of contents of output reports and detailed lists of responsibilities to start the work.

The report of this meeting is available at: <https://www>.itu.int/md/D18-SG01-R-0008/.

* + 1. **The second annual SG1 meeting[[23]](#footnote-23)** was held in Geneva from 18 to 22 March 2019.The meeting reviewed and discussed the 152 contributions received and was attended by 160 participants. Decisions made included:
* Appointment of 9 additional vice-rapporteurs to support the Questions under study;
* Taking note of the progress made on the deliverables and reports of the ITU-D SG1 study Questions;
* Agreement to release the first ITU-D SG1 annual deliverable[[24]](#footnote-24) related to the work of ITU-D SG1 Question 2/1 on “Trends in new broadcasting technologies, services and applications”;
* Taking note of the progress made 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; and
* Agreement to hold a joint ITU-D SG1 Question 3/1 and Question 4/1 focus session/workshop during the October 2019 rapporteur group meetings on the “Economic impact of OTTs on national telecommunication/ICT markets”.

The report of this meeting is available at: <https://www.itu.int/md/D18-SG01-R-0016/>.

* + 1. **The third annual SG1 meeting[[25]](#footnote-25)** was held in Geneva from 17 to 21 February 2020. The meeting reviewed and discussed the 134 contributions received and was attended by 132 participants. Decisions made included:
* Agreement to share draft Question output reports for all seven SG1 Questions;
* Agreement to release three ITU-D SG1 annual deliverables[[26]](#footnote-26) under the auspices of the chairman of SG1 to inform the public of the work done and to 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”; and
* Question 5/1 annual deliverable on “Broadband development and connectivity solutions for rural and remote areas”;
* Taking note of the discussion held on the linkages between ITU-D study Questions and the activities of the Expert Group on ICT Household Indicators (EGH) and Expert Group on Telecommunication/ICT Indicators (EGTI), it was agreed that a joint SG1/SG2 liaison statement to EGH and EGTI would further strengthen the collaboration between the groups;
* Agreement on coordination to capture Question topics of interest related to WTDC Resolution 9 (Rev. Buenos Aires, 2017) to be reported using a new template through the study groups chairmen to TDAG for the BDT Director to consider;
* Taking note of initial approaches and ideas shared on future topics of study;
* Taking note of progress on the mapping work based on the input from ITU-D study groups and shared with TDAG through a joint liaison statement in 2019 and noting the need for some clarification in the work between the Sectors and the ITU secretariat;
* Endorsement of the 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”. The workshop would also serve to finalize the draft Question 6/1 annual deliverable; and
* Taking note of the discussions on a dedicated session on the work of ITU-D study groups to be held during the 2020 edition of the WSIS Forum as well as topical sessions related to study Questions.

The report of this meeting is available at: <https://www.itu.int/md/D18-SG01-R-0024/>.

* + 1. **An additional SG1 plenary meeting[[27]](#footnote-27)** was held together with the usual RGQ meetings, in virtual online format from 21September to 2October 2020 as a consequence of the COVID-19 global pandemic. The extra opening plenary was necessary to approve the annual deliverables and advance the work of SG1. The meeting reviewed and discussed the 116 contributions received and was attended by 168 participants. Decisions made included:
* Approval of the annual deliverable on “Unsolicited commercial communications – an overview of challenges and strategies” with the understanding of enriching the document with further contributions received in the subsequent rapporteur group meetings on Question 6/1 in 2020;
* Taking note that nine webinars “Reflections on COVID-19” were held and contents from these sessions have been used to enrich final output reports of study Questions;
* Taking note that virtual collaboration has been enhanced through Question management meetings, monthly SG1 management team meetings held since April 2020, and joint study groups (SG1 and SG2) management team meetings in June and in August 2020;
* Taking note that all seven draft final output reports had been submitted for comments at the RGQ meetings of 2020;
* Taking note of initial proposals on the themes of the WTDC Draft Declaration, the consolidated reporting on preliminary views on the future of ITU-D study Questions for SG1, the initial proposals on the rules of procedures of ITU-D related to study groups to be included in WTDC Resolution 1 through the respective SG1 and SG2 coordinators; and
* Taking note of the progress on FIGI (Financial Inclusion Global Initiative) and PRIDA (Policy and Regulation Initiative for Digital Africa) projects through the respective SG1 and SG2 coordinators.

The report of this meeting is available at: <http://www.itu.int/md/D18-SG01.RGQ-R-0022/>.

**3.2.5 The fourth meeting[[28]](#footnote-28)** was held virtually from 22 to 26 March 2021. As online meetings have a limited duration, to improve preparation and better consolidate elements common to both SG1 and SG2, the fourth meeting included:

* a special virtual plenary meeting of SG1, held on 24 September 2020, prior the start of the first virtual set of RGQ meetings for September-October 2020;
* an informal set of RGQ virtual meetings for SG1, held from 1 to 5 March 2021; and
* a joint virtual meeting of SG1 and SG2, held on 31 March and 1 April 2021, to discuss and consolidate outcomes of working methods (Resolution 1) and future of study Questions (Resolution2) to be submitted to the TDAG working group on resolutions, declaration, and thematic priorities (WG-RDTP).

The fourth SG1 meeting reviewed and discussed the 61 contributions received and was attended by 170 participants. Decisions made included:

* Approval of seven reports[[29]](#footnote-29) containing the outputs called for by WTDC-17for all SG1 Questions and one guideline for Question 4/1;
* Approval of the change in management for Question 6/1 with the appointment of Co-Rapporteurs Ms Leonel (Brazil) and Ms Gulati (India);
* Agreement to a joint liaison statement of SG1 and SG2 to the Eastern Partnership Electronic Communications Regulators Network (EaPeReg);
* Noting that draft updated terms of reference for all seven Questions were submitted to TDAG and the ITU-D membership for consideration;
* Noting the release of the annual deliverable[[30]](#footnote-30) of Question 6/1 on *”Unsolicited commercial communications”* in February 2021 together with an ITU News blog and interview of authors; and
* Agreement that the BDT secretariat be delegated the authority to improve the look and feel of the approved final output reports and guidelines as they are formatted into ITU publications. The SG1 management team will have access to a pre-launch version of each report as they become available.

The meeting also held constructive discussions on the future of the study Questions. The meeting dates for SG1 during the next study period (2022-2025) were also considered.

The report of this meeting is available at: <https://www.itu.int/md/D18-SG01-R-0032/>.

* + 1. **An additional SG1 plenary meeting[[31]](#footnote-31)** was held virtually from 11 to 15 October 2021 in line with the TDAG decision taken at its 28th meeting (24 to 28 May 2021) to refine the terms of reference of study Questions which were submitted to TDAG as part of the contingency proposals ([TDAG-21/10](https://www.itu.int/md/D18-TDAG28-C-0010/en) item 2). The meeting reviewed and discussed the 57 contributions received and was attended by 107 participants. Decisions made included:
* Agreement to the updated SG1 work plan, which reflects the extended duration until the WTDC to be held in June 2022;
* Approval of the change in management for Question 3/1 and Question 6/1 with the appointment of Vice-Rapporteur Ms Tambe (Facebook) and Co-Rapporteur Mr Kumar (India) respectively;
* Approval of the revised/refined terms of reference that were discussed and agreed in the rapporteur group meetings from 11 to 14 October 2021 reflected in the table below and in **Annex 6** andsubmitted to TDAG for appropriate action;

**Table 4: Revised terms of reference for Study Group 1 Questions – also found in Annex 6 and   
in** [**TDAG-21/2/DT/4**](https://www.itu.int/md/D18-TDAG29-211108-TD-0004/)

|  |  |
| --- | --- |
| **Question** | **Revised text approved at SG1 meeting** |
| Q1/1 | [SG1RGQ/420](https://www.itu.int/md/D18-SG01.RGQ-C-0420/en) (Rev.1) |
| Q2/1 | [SG1RGQ/421](https://www.itu.int/md/D18-SG01.RGQ-C-0421/en) (Rev.1) |
| Q3/1 | [SG1RGQ/422](https://www.itu.int/md/D18-SG01.RGQ-C-0422/en) (Rev.1) |
| Q4/1 | [SG1RGQ/423](https://www.itu.int/md/D18-SG01.RGQ-C-0423/en) (Rev.1) |
| Q5/1 | [SG1RGQ/424](https://www.itu.int/md/D18-SG01.RGQ-C-0424/en) (Rev.1) |
| Q6/1 | [SG1RGQ/425](https://www.itu.int/md/D18-SG01.RGQ-C-0425/en) (Rev.1) |
| Q7/1 | [SG1RGQ/426](https://www.itu.int/md/D18-SG01.RGQ-C-0426/en) (Rev.1) (same as [TDAG-21/32](https://www.itu.int/md/D18-TDAG28-C-0032/en)) |

* Noting that this is the last study group meeting before WTDC;
* Noting that the final reports (including the Question 4/1 cost modelling guidelines) are available at [www.itu.int/itudsgpub](http://www.itu.int/itudsgpub) as free publications in all six languages of ITU and are accompanied by short video clips;
* Taking note of ongoing promotional actions through BDT events and beyond to present the findings of the final report with active participation of the SG1 management team; and
* Noting that the virtual rapporteur group meeting on Question 7/1 benefited from international sign interpretation made available, which was appreciated and commended.

The date for the next SG1 meeting will be the first meeting of the next study period (2022-2025), scheduled from 31 October to 4 November 2022.

The report of this meeting is available at: <https://www.itu.int/md/D18-SG01-R-0032/>.

**Annex 5** presents a table showing the dates on which study groups and rapporteur groups met during the period. A substantial amount of the work was carried out electronically and by correspondence between meetings, notably to finalize annual deliverables, output reports, and to prepare for workshops and webinars.

## 3.3 Joint Study Group 1 and Study Group 2 plenary meeting

**The joint SG1 and SG2 meeting[[32]](#footnote-32)** was held on 31 March and 1 April 2021 to discuss and consolidate outcomes of working methods (Resolution 1) and future of Questions (Resolution2) to be submitted to the TDAG-WG-RDTP. The meeting reviewed and discussed the 18 contributions and was attended by 131 participants, of which 42 per cent were women delegates.

* Decisions made included: Taking note of (Document [1/477](https://www.itu.int/md/D18-SG01-C-0477) ) the status of current progress in TDAG WG-RDTP;
* Noting and submitting for information to TDAG Document [1/474](https://www.itu.int/md/D18-SG01-C-0474) on the results of the joint end of study period survey, and introducing participants to the results-based management (RBM) initiative started for study groups and requesting TDAG to further inform ITU-D membership of the survey results for use in preparing for WTDC-22;
* Agreement to submit (Document [1/471](https://www.itu.int/md/D18-SG01-C-0471/)) the proposals to update the rules of procedures of ITU-D (WTDC Resolution 1, Rev. 2022) with regard to study group aspects, to be conveyed to TDAG WG-RTDP through a liaison statement for further discussion at TDAG;
* Agreement to submit (Document [1/472](https://www.itu.int/md/D18-SG01-C-0472/)) an overview and insights on the future of ITU-D study Questions, based on discussions held during the last study group meetings in March 2021 and further consolidated in the joint meeting;
* Noting (Document [1/473](https://www.itu.int/md/D18-SG01-C-0473)) the current status on streamlining of WTDC resolutions;
* Noting (Document [1/478](https://www.itu.int/md/D18-SG01-C-0478)) the draft declaration under discussion in the TDAG WG-RDTP.

# Summary of the key results achieved

Graphical user interface, timeline

Description automatically generated

## Question 1/1 – Strategies and policies for the deployment of broadband in developing countries

The output report contained in Document [1/414](https://www.itu.int/md/D18-SG01-C-0414/en)(Rev.3) was approved at the fourth SG1 meeting held from 22 to 26 March 20212021. It was published for public access in all six official languages of ITU and made available through the [ITU-D study groups publications webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx), [myITU](https://www.itu.int/en/myitu/Publications/2021/07/22/15/17/Strategies-and-policies-for-the-deployment-of-broadband-in-developing-countries) and the [ITU publications webpage](https://www.itu.int/pub/D-STG-SG01.01.2-2021). The output report is complemented by a short video clip ([available online](https://youtu.be/NPHb5HdUp2Q)) prepared by the management team with the support of the BDT secretariat.

Document [1/454](https://www.itu.int/md/D18-SG01-C-0454/en) on Question 1/1 future terms of reference, initially submitted for further use by TDAG and ITU-D membership as part of WTDC-22 preparations, was further revised and refined during the 28th TDAG meeting in May 2021. The refined version is available as Document [SG1RGQ/420](https://www.itu.int/md/D18-SG01.RGQ-C-0420/en) (Rev.1).

Workshops and webinars to enrich output reports and annual deliverables together with actions to initiate dissemination of outputs are listed (not exhaustive) on this [webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/events_workshops.aspx), for which Question 1/1 dedicated two sessions in September 2018 and September 2019.

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

The output report contained in Document [1/415](https://www.itu.int/md/D18-SG01-C-0415/en)(Rev.2) was approved at the fourth SG1 meeting held from 22 to 26 March 2021. It was published for public access in all six official languages of ITU and made available through the [ITU-D study groups publications webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx), [myITU](https://www.itu.int/en/myitu/Publications/2021/07/27/08/38/Strategies---policies---regulations-and-methods-of-migration-and-adoption-of-digital-broadcasting) and the [ITU publications webpage](https://www.itu.int/pub/D-STG-SG01.02.2-2021). The output report is complemented by a short video clip ([available online](https://youtu.be/Ne_5_CcVQgs)) prepared by the management team with the support of the BDT secretariat.

Document [1/460](https://www.itu.int/md/D18-SG01-C-0460/en) on Question 2/1 future terms of reference, initially submitted for further use by TDAG and ITU-D membership as part of WTDC-22 preparation, was further revised and refined during the 28th TDAG meeting in May 2021. The refined version is available as Document [SG1RGQ/421](https://www.itu.int/md/D18-SG01.RGQ-C-0421/en) (Rev.1).

The two annual deliverables approved and released are:

* “[Trends in new broadcasting technologies, services and applications](https://www.itu.int/oth/D0717000001/en)” (2019) with a [video interview](https://youtu.be/lo-FsnOgmpA) with the author; and
* “[Considerations about the cost structure of the digital transition, including new services and applications](https://www.itu.int/oth/D0723000001/en)” (2020) with a [video interview](https://youtu.be/ectFF7DVtWk) with the author and [an ITU news blog](https://www.itu.int/en/myitu/News/2020/05/13/12/16/New-ITU-D-study-paper-helps-countries-consider-cost-structures-and-new-models).

Workshops and webinars to enrich output reports and annual deliverables together with actions to initiate dissemination of outputs are listed (not exhaustive) on this [webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/events_workshops.aspx), for which Question 2/1 was specifically engaged in four sessions in March 2019, February 2020, July 2020 and April 2021.

* 1. **Question 3/1 –** **Emerging technologies, including cloud computing, m-services, and OTTs: Challenges and opportunities, economic and policy impact for developing countries**

The output report contained in Document [1/416](https://www.itu.int/md/D18-SG01-C-0416/en)(Rev.1) was approved at the fourth SG1 meeting held from 22 to 26 March 2021. It was published for public access in all six official languages of ITU and made available through the [ITU-D study groups publications webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx), [myITU](https://www.itu.int/en/myitu/Publications/2021/07/22/12/07/Emerging-technologies) and the [ITU publications webpage](https://www.itu.int/pub/D-STG-SG01.03.2-2021). The output report is complemented by a short video clip ([available online](https://youtu.be/vAfdoL6Oaw4)) prepared by the management team with the support of the BDT secretariat.

Document [1/468](https://www.itu.int/md/D18-SG01-C-0468/en) on Question 3/1 future terms of reference, initially submitted for further use by TDAG and ITU-D membership as part of WTDC-22 preparation, was further revised and refined during the 28th TDAG meeting in May 2021. The refined version is available as Document [SG1RGQ/422](https://www.itu.int/md/D18-SG01.RGQ-C-0422/en) (Rev.1).

One joint annual deliverable (with Question 4/1) approved and released is “[Economic impact of OTTs on National Telecommunication/ICT markets](https://www.itu.int/oth/D0723000003/en)” (2020) with a [video interview](https://youtu.be/WR7CWptJ4lY) with the authors and an [ITU news blog](https://www.itu.int/en/myitu/News/2020/06/10/10/53/ITU-launches-new-study-paper-on-economic-impact-of-OTTs).

Workshops and webinars to enrich output reports and annual deliverables together with actions to initiate dissemination of outputs are listed (not exhaustive) on this [webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/events_workshops.aspx), for which Question 3/1 was specifically engaged in four sessions in October 2019, February 2020, May 2020 and July 2020.

* 1. **Question 4/1 – Economic policies and methods of determining the cost of services related to national telecommunication/ICT networks**

The output report contained in Document [1/417](https://www.itu.int/md/D18-SG01-C-0417/en)(Rev.1) was approved at the fourth SG1 meeting held from 22 to 26 March 2021. It was published for public access in all six official languages of ITU and made available through the [ITU-D study groups publications webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx), [myITU](https://www.itu.int/en/myitu/Publications/2021/07/06/09/42/Economic-policies-and-methods-of-determining-the-costs-of-services) and the [ITU publications webpage.](https://www.itu.int/pub/D-STG-SG01.04.2-2021)  The output report is complemented by a short video clip ([available online](https://youtu.be/Ze7O5ZL3XRg)) prepared by the management team with the support of the BDT secretariat.

The “Guidelines on cost modelling” contained in Document [1/422](https://www.itu.int/md/D18-SG01-C-0417/en) were approved at the fourth SG1 meeting from 22 to 26 March 2021 and were published for public access in all six official languages of ITU and made available through the [ITU-D study groups publications webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx), [myITU](https://www.itu.int/en/myitu/Publications/2021/07/06/10/00/Guidelines-on-Cost-Modelling) and from [ITU publications webpage](https://www.itu.int/pub/D-STG-SG01.04_CST_MOD-2021).

Document [1/444](https://www.itu.int/md/D18-SG01-C-0444/en) on Question 4/1 future terms of reference, initially submitted for further use by TDAG and ITU-D membership as part of WTDC-22 preparation, was further revised and refined during the 28th TDAG meeting in May 2021. The refined version is available as Document [SG1RGQ/423](https://www.itu.int/md/D18-SG01.RGQ-C-0423/en) (Rev.1).

One joint annual deliverable (with Question 3/1) approved and released is “[Economic impact of OTTs on National Telecommunication/ICT markets](https://www.itu.int/oth/D0723000003/en)” (2020) with a [video interview](https://youtu.be/WR7CWptJ4lY) with the authors and an [ITU News blog](https://www.itu.int/en/myitu/News/2020/06/10/10/53/ITU-launches-new-study-paper-on-economic-impact-of-OTTs).

Workshops and webinars to enrich output reports and annual deliverables together with actions to initiate dissemination of outputs are listed (not exhaustive) on this [webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/events_workshops.aspx), for which Question 4/1 dedicated five sessions in September 2018, October 2019, February 2020, June 2020 and July 2021 together with nine sessions as part of GSR+ and RED between 2018 and 2021.

* 1. **Question 5/1 – Telecommunication/ICT for rural and remote areas**

The output report contained in Document [1/418](https://www.itu.int/md/D18-SG01-C-0418/en)(Rev.4) was approved at the fourth SG1 meeting held from 22 to 26 March 2021. It was published for public access in all six official languages of ITU and made available through the [ITU-D study groups publications webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx), [myITU](https://www.itu.int/en/myitu/Publications/2021/07/22/13/20/Telecommunications-ICTs--for-rural-and-remote-area) and the [ITU publications webpage](https://www.itu.int/pub/D-STG-SG01.05.1-2021). The output report is complemented by a short video clip ([available online](https://youtu.be/TjlEyKKLEFQ)) prepared by the management team with the support of the BDT secretariat.

Document [1/435](https://www.itu.int/md/D18-SG01-C-0435/en) on Question 5/1 future terms of reference, initially submitted for further use by TDAG and ITU-D membership as part of WTDC-22 preparation, was further revised and refined during the 28th TDAG meeting in May 2021. The refined version is available as Document [SG1RGQ/424](https://www.itu.int/md/D18-SG01.RGQ-C-0424/en) (Rev.1).

An annual deliverable approved and released is “[Broadband development and connectivity solutions for rural and remote areas](https://www.itu.int/oth/D0723000002/en)” (2020) with a [video interview](https://youtu.be/vKgjxJJlou0) with the author and an [ITU news blog](https://www.itu.int/en/myitu/News/2020/05/25/13/34/ITU-launches-new-study-paper-on-broadband-and-connectivity-solutions-for-rural-and-remote-areas).

Workshops and webinars to enrich output reports and annual deliverables together with actions to initiate dissemination of outputs are listed (not exhaustive) on this [webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/events_workshops.aspx), for which Question 5/1 dedicated two sessions in September 2019 and February 2020.

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

The output report contained in Document [1/419](https://www.itu.int/md/D18-SG01-C-0419/en)(Rev.1) was approved at the fourth SG1 meeting held from 22 to 26 March 2021. It was published for public access in all six official languages of ITU and made available through the [ITU-D study groups publications webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx), [myITU](https://www.itu.int/en/myitu/Publications/2021/07/22/12/33/Consumer-information) and the [ITU publications webpage](https://www.itu.int/pub/D-STG-SG01.06.4-2021). The output report is complemented by a short video clip ([available online](https://youtu.be/S7blnPQMjew)) prepared by the management team with the support of the ITU-D secretariat.

Document [1/467](https://www.itu.int/md/D18-SG01-C-0467/en) on Question 6/1 future terms of reference, initially submitted for further use by TDAG and ITU-D membership as part of WTDC-22 preparation, was further revised and refined during the 28th TDAG meeting in May 2021. The refined version is available as Document [SG1RGQ/425](https://www.itu.int/md/D18-SG01.RGQ-C-0425/en) (Rev.1).

An annual deliverable approved and released is “[Unsolicited Commercial Communications – an overview of challenges and strategies](https://www.itu.int/oth/D0727000001/en)”(2020) with a [video interview](https://youtu.be/tSVfvLcIWHw) with the authors and an [ITU news blog](https://www.itu.int/en/myitu/News/2021/02/03/08/10/Unsolicited-commercial-communications-spam-calls).

Workshops and webinars to enrich output reports and annual deliverables together with actions to initiate dissemination of outputs are listed (not exhaustive) on this [webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/events_workshops.aspx), for which Question 6/1 dedicated a session in July 2020.

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

The output report contained in Document [1/420](https://www.itu.int/md/D18-SG01-C-0420/en)(Rev.2) was approved at the fourth SG1 meeting held from 22 to 26 March 2021. It was published for public access in all six official languages of ITU and made available through the [ITU-D study groups publications webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx), [myITU](https://www.itu.int/en/myitu/Publications/2021/07/06/12/15/Access-to-telecommunication-and-ICT-services-by-persons-with-disabilities) and the [ITU publications webpage](https://www.itu.int/pub/D-STG-SG01.07.5-2021). The output report is complemented by a short video clip ([available online](https://youtu.be/g9_YnkTfPyI)) prepared by the management team with the support of the BDT secretariat.

Document [1/445](https://www.itu.int/md/D18-SG01-C-0445/en) on Question 7/1 future terms of reference, initially submitted for further use by TDAG and ITU-D membership as part of WTDC-22 preparation, was further revised and refined during the 28th TDAG meeting in May 2021. The refined version is available as Document [SG1RGQ/426](https://www.itu.int/md/D18-SG01.RGQ-C-0426/en) (Rev.1) or [TDAG-21/32](https://www.itu.int/md/D18-TDAG28-C-0032/en).

Workshops and webinars to enrich output reports and annual deliverables together with actions to initiate dissemination of outputs are listed (not exhaustive) on this [webpage](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/events_workshops.aspx), for which Question 7/1 dedicated three sessions in September 2018, October 2019 and June 2020.

# Collaboration with other groups

* 1. **Intersectoral coordination**

Active collaboration is ongoing in the form of participation in study group sessions and events to exchange information and seek specific inputs between study groups. An intersectoral map[[33]](#footnote-33) of common areas of work between ITU-D and ITU-T study groups and between ITU-R and ITU-D study groups has been developed by specially appointed coordinators and is now maintained by the secretariat of the [Inter-Sectoral Coordination Group](https://www.itu.int/en/general-secretariat/Pages/ISCG/default.aspx) (ISCG) on issues of mutual interest in collaboration with the secretariats of study groups of all three ITU Sectors. The coordinator from ITU-D SG1 is Mr Arseny Plossky (Russian Federation), Rapporteur for Question 4/1 whose hard work in this area is commended. Should an update be required, the BDT secretariat will work with relevant stakeholders including the SG1 coordinator and ISCG secretariat.

A liaison statement was received from the ISCG to be considered under Question 7/1. It shared an update from the Inter-Sectoral Coordination Task Force (ISC-TF) focal point on activities being coordinated among the three Sectors and the ITU General Secretariat on the theme of accessibility with a request to be added to its mailing list and share feedback on information provided, including ITU accessibility policy and planned actions.

* 1. **Resolution 9 – Participation of countries, particularly developing countries, in spectrum management**

In 2019, the ITU-D study groups agreed that to fulfil the needs of developing countries stated in Resolution 9 (Rev. Buenos Aires, 2017), study Questions for which close collaboration would be sought with ITU‑R, would be identified. The specially appointed coordinators for SG1 and SG2 are Mr Roberto Hirayama (Brazil), Vice-Chairman SG1 and Mr Fadel Digham (Egypt), Co-Rapporteur for Question1/2. As discussed at TDAG, at each annual study group meeting, the coordinators with support from the BDT focal point for Resolution 9, will submit a summary of the compiled findings on WTDC Resolution 9 issues to the study group chairmen, who will transmit them to the BDT Director. The BDT Director can then coordinate with the BR Director as appropriate. TDAG also noted that the said summary provided by the study group chairmen can serve as a basis for the required contribution to TDAG on Resolution 9 implementation activities. The report contained in [TDAG-20/12](https://www.itu.int/md/D18-TDAG25.2-C-0012/en) was shared and the latest report submitted by coordinators to the SG1 meeting in March 2021 is Document [1/448](https://www.itu.int/md/D18-SG01-C-0448/en) (Vice-Chairman SG1, Brazil and Co-Rapporteur for Question 1/2, Egypt). TDAG was apprised of this document which takes into consideration discussions on the final output reports of each of the study Questions continued in ITU-D Study Group 1 with further content included in the reports. The main focus of the contributions remained the same as stated in the TDAG document referred to above and are as follows for ITU-D SG1 (in order of priority):

* Need 10: Emerging technologies and approaches in using spectrum;
* Need 8: Transition to digital terrestrial television broadcasting;
* Need 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;
* Need 5: Economic and financial aspects of spectrum management;
* Need 9: Assistance in identifying the most efficient ways to utilize the digital dividend.

The topic of emerging technologies and approaches to using spectrum is of great interest to the ITU-D membership. Therefore, it is useful to highlight the importance of both Directors of BDT and BR in addressing this key issue in their joint report to WTDC-22 on the implementation of Resolution 9.

Close collaboration between BR and BDT Directors would facilitate the achievement of the objectives of Resolution 9 taking into consideration relevant ITU-R and ITU-D study group activities as well as relevant projects, events and capacity-building actions, including PRIDA and WSIS Forum sessions for Action Line C2.

* 1. **ITU Coordination Committee for Terminology**

The ITU Coordination Committee for Terminology (ITU CCT) was created through Council Resolution 1386 in 2017 as a joint working body within ITU responsible for the adoption and agreement of terms and definitions in the field of telecommunications/ICTs in all six official languages of the Union. In accordance with Resolution 86 (Buenos Aires, 2017) of WTDC, on the use in the ITU Telecommunication Development Sector of the languages of the Union on an equal footing, TDAG in 2018 appointed Mr Peter Mbengie (Cameroon), Vice-Chairman of ITU-D SG1, and Ms Ke Wang (People’s Republic of China), Vice-Chairman of ITU-D SG2, to be the ITU-D representatives to ITU CCT.

During the 2018-2022 study period, ITU CCT met nine times[[34]](#footnote-34). The meetings considered liaison statements and contributions with matters concerning terminology and agreed on the updates to the ITU terminology database (especially what is referred to as Part 3) of terms, acronyms and definitions. Matters of interest to ITU-D work included:

* No general definition of broadband access that would be suitable to the context of work of all parties involved could be given;
* Some terms and definitions proposed by ITU-R and ITU-T study groups were linked with activities that are related to ITU-D study Questions, including communities, broadcasting, cloud computing;
* ITU-D study groups were encouraged to take into account the established use of terms and existing definitions in ITU, in particular those appearing in the online ITU terms and definitions database; and
* ITU-D study group members acknowledged the need to be more involved in the work of ITU CCT and continue to carry out fruitful cooperation in the future.

Document [1/451](https://www.itu.int/md/D18-SG01-C-0451) is a contribution by the SG1 and SG2 coordinators submitted at the fourth SG1 meetings.

* 1. **Expert Group on ICT Household Indicators and Expert Group on Telecommunication/ICT Indicators**

In the context of implementing Resolution 131 (Rev. Dubai, 2018) of the Plenipotentiary Conference, on measuring information and communication technologies to build an integrating and inclusive information society and Resolution 8 (Rev. Buenos Aires, 2017) of WTDC, on the collection and dissemination of information and statistics, two liaison statements were received from the Expert Group on ICT Household Indicators (EGH) and the Expert Group on Telecommunication/ICT Indicators (EGTI). The aim of the statements was to create a working mechanism to ensure collaboration between these expert groups and the ITU-D study groups, and to share information of mutual interest. Following this proposal, the study groups appointed Ms Anastasia Konukhova (Russian Federation), Vice-Chairman of ITU-D SG1, and Mr Roland Kudozia (Ghana), Vice-Chairman ITU-D SG2, as coordinators to explore deeper synergies with EGH and EGTI, by initiating studies on linkages between ITU-D study Questions and activities of EGH and EGTI and identifying topics and indicators of interest for their current studies and possible future work. Liaison statements[[35]](#footnote-35) were exchanged accordingly.

Document [1/449](https://www.itu.int/md/D18-SG01-C-0449) is a contribution by the SG1 and SG2 coordinators submitted at the fourth SG1 meetings. It contains outcomes of the 11th EGTI meeting (2020), 8th EGH meeting (2020) and 17th World Telecommunication/ICT Indicators Symposium (WTIS) “Towards an inclusive digital society,” and useful links and resources to ITU-D activities in the field of ICT statistics and data analysis.

Topics for future work agreed at these meetings and of relevance to the topics of the SG1 Questions included “*the measurement of over-the-top services (OTT) effects on mobile traffic*”, “*impact of the COVID-19 pandemic on telecoms and the way ICT was used to mitigate it*” and “*measuring digital inclusion*”. Both expert groups highlighted the importance of further collaboration with the ITU‑D study groups and encouraged ITU-D membership to participate actively in meetings and the online discussion forum on the topics outlined for future work.

A further update ([SG1RGQ/441](https://www.itu.int/md/D18-SG01.RGQ-C-0441/en)) was shared by BDT on selected activities conducted by the ICT Data and Analytics (IDA) Division during the period 2020-2021 and reports on the main conclusions of the 12th meeting of ÈGTI and the 9th meeting of EGH, both convened by IDA in September 2021.

* 1. **Synergies with BDT projects and initiatives**

With the aim to strengthen synergies between the study groups and BDT projects, SG coordinators were appointed in September 2020 for two projects on an exploratory basis. These are:

* FIGI[[36]](#footnote-36), which aims at leveraging ICTs for financial services to achieve digital financial inclusion and the study group coordinators were Mr Ahmad Gad (Egypt), Vice-Chairman of ITU‑D SG1, and Mr Fadel Digham (Egypt), Co-Rapporteur for Question 1/2; and
* PRIDA (Policy and Regulation Initiative for Digital Africa)[[37]](#footnote-37), which aims to build capacity to foster universally accessible and affordable broadband across the African continent to unlock future benefits of Internet-based services. The study group coordinator was Mr Haim Mazar (ATDI, France), Co-Rapporteur for Question 7/2.

Documents [SG1RGQ/383 + Annex](https://www.itu.int/md/D18-SG01.RGQ-C-0383) (FIGI), [SG1RGQ/359 + Annex](https://www.itu.int/md/D18-SG01.RGQ-C-0359) (PRIDA) and [1/438](https://www.itu.int/md/D18-SG01-C-0438) (PRIDA) were submitted as contributions by the coordinators.The background and status of implementation of the projects were shared by the coordinators at plenary meetings including a mapping to relevant study Questions and events/activities (capacity-building workshops and development of technical guidelines) of potential interest to ITU-D study group participants. Calls for experts to work on these projects were also made, where applicable.

Other actions for collaboration towards more meaningful outputs include:

* A call for engaging youth in the future study period, which was made by the Generation Connect team;
* Outcomes from the Global Symposium for Regulators (GSR), which are regularly received as contributions for consideration by relevant study Questions, in preparation of their outputs;
* BDT accessibility work updates, which are regularly received as contributions for consideration by Question 7/1; and
* A call for study group meeting attendees to use the Last-mile Connectivity Toolkit, which was received through a BDT contribution.

## 5.6 Collaboration with the World Summit on the Information Society

As encouraged by the Council Working Group on the World Summit on the Information Society (WSIS) and SDGs (CWG-WSIS and SDGs) for ITU study groups and the WSIS secretariat to work closely towards contributions to the WSIS and SDG process, areas of collaboration explored during this study period include:

* Linkages developed between winners and champions of WSIS prizes and ITU-D study Questions (Documents [1/207](https://www.itu.int/md/D18-SG01-C-0207/)) for consideration in relevant output reports;
* A thematic workshop to present the work of the two study groups: “*Facing Realities in Digital Transformation: Emerging Trends and Challenges*” at the WSIS Forum 2020;
* A specially organized workshop on Question 3/1 to augment the content needed for its output report - titled *“A roadmap to a trusted Cloud for Good”* at the WSIS Forum 2020;
* Members of the ITU-D SG1 management team also participated as speakers and moderators in the WSIS Forums 2020 and 2021; and
* Updates through regular contributions on WSIS activities and possibilities for more collaboration.

# Results of the survey on the work of ITU-D study groups (7th study period, 2018-2022)

In keeping with Section 12.4.3 of Resolution 1 (Rev. Buenos Aires, 2017), the ITU-D study groups issued a joint survey to help ascertain the extent to which the ITU-D membership, and in particular developing countries, benefit from the outputs of studies.

A draft questionnaire was submitted for comment at the September and October 2020 rapporteur group meeting of ITU-D study groups (1 and 2). The final version of the questionnaire was issued as an online survey to the ITU-D membership (see [ITU-D Circular Letter 11](https://www.itu.int/md/D18-CA-CIR-0011/en)) on 18 December 2020 with the closing date of 15 January 2021. The deadline was extended to 29 January 2021. The results of the joint survey were analysed and were submitted to the meetings of the study groups. Through this report, SG1 apprised TDAG of Document [1/474](https://www.itu.int/md/D18-SG01-C-0474) (BDT), which annexed the survey report and a shorter presentation of the key findings, for transmission to the next WTDC, as needed.

Chart, bar chart

Description automatically generated

Some findings to consider:

* 68 responses were received (37 responses in previous survey);
* Developing countries had the highest percentage of respondents, while respondents represented a fairly consistent geographical spread;
* Attendance of virtual meetings were high as they are less resource intensive and less costly. Connectivity is a challenge for virtual meetings. Lack of budget was the main reason for not attending physical meetings in the past;
* Member States are perceived as encouraging small-and medium-sized enterprises (SMEs), academia and industry participation in study group work (specific examples were shared by respondents);
* Collaboration with ITU-T and ITU-R were appreciated and stand to be further enhanced;
* While most respondents understand the structure of Questions, almost half of them found that certain important topics were not being addressed;
* Questions perceived of having the highest importance are Q1/1, Q3/1, Q5/1 and Q3/2;
* 85 per cent of respondents use study group work output in drafting policies and regulations with specific examples provided in the report (with URLs); and
* More workshops and annual deliverables throughout the study period rank high in the opinion of respondents when asked how to enhance usage of outputs.

The findings of the surveys can be useful for the ITU-D membership as part of preparations for the next WTDC particularly the sections relevant to discussions on the future of Questions and on working methods of study groups.

# The “3Is” vision for Study Group 1

Innovative aspects explored in the 2018-2022 study period can be summarized under the 3Is vision presented by the SG1 Chairman at the first SG1 meeting ([1/REP/8](https://www.itu.int/md/D18-SG01-R-0008/en)) and reviewed in the closing of the fourth SG1 meeting:

* More **interaction** between stakeholders in the work (contributions, experience sharing);
* More **innovation** in the working methods; and
* More **implementation** of the results of the ITU-D study group outcomes by Member States.

**Interaction** is being improved through:

* More management team (e)meetings: Question, study group and joint study groups;
* WhatsApp groups for efficient e-meetings behind-the-scenes coordination;
* Closer collaboration with SG2 (joint meetings, joint management team meetings and joint study group chairmen consultations with the BDT secretariat);
* More liaison statements with relevant groups in other Sectors as well as with other UN agencies;
* Assigned role of coordinators (EGH, EGTI, CCT, PRIDA, FIGI, Resolution 9, WTDC Declaration, Resolution 1 working methods, Resolution 2 on the future of Questions, streamlining of resolutions) that enhanced synergies; and
* ITU-D membership active in Questions also worked as experts for developing BDT products (e.g. Last-mile Connectivity Toolkit, Digital Regulation Handbook) and supporting BDT events (RDFs, RPMs, REDs).

**Innovation** is being enhanced through:

* More virtual meetings from informal to formal ones, from meetings with small groups to those with more than 200 participants;
* Use of new technologies for document sharing and co-editing;
* Initiating and successfully completing a mapping of Questions across all ITU Sectors which is maintained by the ITU secretariat;
* Revisiting the role of vice-chairmen for the regions through guidelines;
* More workshops, new webinars, WSIS seminars, sessions or speakers at RPMs, RDFs, REDs which help to inform all of SG1 work and to get inputs to enrich SG1 outputs;
* Annual deliverables (also known as papers) with relevant ITU News blogs, interviews and website promotion as they are free, for public access and available in all official languages of the Union;
* Professional editing of final output reports, which was very well received by the management teams and ITU-D membership;
* Captioning for all meetings which is not only useful for those with hearing disabilities but also for those with audio connection problems, amongst others;
* Access to raw text of captioned meetings and public chats shared online during meetings, which bring further clarity, transparency and facilitates crosschecking of information for report writing;
* Virtual rapporteur group meetings and plenaries; and
* Results-based management (RBM) which is a work in progress by the BDT secretariat. The BDT secretariat is expected to share more about this in the next study period. RBM brings clarity of purpose and focuses on core activities that have impact for the target audience of the study groups.

**Implementation** is an ongoing process to translate the outputs of SG1 (report findings and guidelines) into in-country implementations and ITU-D recommendations as appropriate, through:

* Timely release of free reports in all six languages of the Union as ITU publications by June 2021;
* Develop and implement a communication plan to promote SG1 outputs and future work of interest including webinars and joint actions with BDT, ITU and beyond;
* ITU-D study group management and contributors to actively promote the SG1 outputs and leading by example by making use of them;
* Regional activities (a particular call for ladies in study group management teams to be more involved in the Network of Women (NOW) initiative and in regional activities).
* A call for member-driven activities (at regional and national levels) to use SG1 outputs for ICT development within:
* government;
* academia;
* SMEs; and
* industry.

# Conclusion

Study Group 1 has successfully carried out its mandate with quality contributions submitted through engaged and informed discussions, hard work, dedication, perseverance, flexibility/consensus, and expertise of all the parties concerned: the SG1 management team, vice-chairmen, rapporteurs, co-rapporteurs, vice-rapporteurs, focal points, secretariat, active contributors, in-person and remote meeting participants, IS moderators, interpreters, translators and IT support staff. With strong and consistent support from the BDT Director and her staff, the TDAG Chairman and the other ITU Sectors (ITU-T and ITU-R), SG1 has fulfilled its mission.

Annex 1: Appointed chairman, vice-chairmen, rapporteurs, co-rapporteurs and vice-rapporteurs of ITU-D Study Group 1 Questions for the 2018-2022 study 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)  
(](%20https://www.itu.int/net4/ITU-D/CDS/sg/rapporteurs.asp?lg=1&sp=2018)(Updated)on 26 March 2021)

| **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 |
| until 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) |
|  | BDT focal point | Mr | Sylvester | Cadette | DDR/RO-AMS | Americas | ITU |
| until July 2021 | BDT focal point | Mr | Vladimir | Daigele | DNS/FNS | Headquarters | ITU |
|  | BDT focal point | Ms | Aminata | Amadou Garba | DNS/FNS | Headquarters | ITU |
|  | BDT focal point | Mr | Jean-Jacques | Massima | DDR/RO-AFR | Africa | ITU |
|  | BDT focal point | Mr | Farid | Nakhli | DDR/RO-CIS | CIS countries | ITU |
|  | BDT focal point | Mr | Jaroslaw | Ponder | DDR/EUR | Europe | ITU |
|  | BDT focal point | Mr | Aamir | Riaz | DDR/RO-ASP | Asia-Pacific | ITU |
|  | BDT focal point | Ms | Nancy | Sundberg | DKH/RME | Headquarters | ITU |
|  | BDT focal point | Ms | Chali | Tumelo | DDR/RO-AFR | Africa | ITU |
| **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 |
|  | BDT focal point | Ms | Rouda | Alamir Ali | DDR/RO-ARB | Arab States | ITU |
| until July 2021 | BDT focal point | Mr | Istvan | Bozsoki | DNS/FNS | Headquarters | ITU |
|  | BDT focal point | Mr | Vladimir | Daigele | DNS/FNS | Headquarters | ITU |
|  | BDT focal point | Mr | Jean-Jacques | Massima | DDR/RO-AFR | Africa | ITU |
|  | BDT focal point | Mr | Farid | Nakhli | DDR/RO-CIS | CIS countries | ITU |
|  | BDT focal Point | Mr | Jaroslaw | Ponder | DDR/EUR | Europe | ITU |
|  | BDT focal point | Mr | Aamir | Riaz | DDR/RO-ASP | Asia-Pacific | ITU |
| **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 the Congo | Africa | Administration |
| until August 2021 | Vice-rapporteur | Mr | Christopher | Hemmerlein | United States | Americas | Administration |
|  | Vice-rapporteur | Ms | Alicia | Tambe | 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 |
|  | BDT focal point | Ms | Rouda | Alamir Ali | DDR/RO-ARB | Arab States | ITU |
|  | BDT focal point | Ms | Ida | Jallow | DDR/RO-AFR | Africa | ITU |
|  | BDT focal point | Ms | Youlia | Lozanova | DKH/RME | Headquarters | ITU |
|  | BDT focal point | Mr | Farid | Nakhli | DDR/RO-CIS | CIS countries | ITU |
|  | BDT focal point | Mr | Jaroslaw | Ponder | DDR/EUR | Europe | ITU |
|  | BDT focal point | Mr | Ismail | Shah | DDR/RO-ASP | Asia-Pacific | ITU |
| **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 |
| until 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 |
|  | BDT focal point | Mr | Mustafa | Al Mahdi | DDR/RO-ARB | Arab States | ITU |
|  | BDT focal point | Ms | Ida | Jallow | DDR/RO-AFR | Africa | ITU |
|  | BDT focal point | Mr | Farid | Nakhli | DDR/RO-CIS | CIS countries | ITU |
|  | BDT focal point | Mr | Ashish | Narayan | DDR/RO-ASP | Asia-Pacific | ITU |
|  | BDT focal point | Mr | Jaroslaw | Ponder | DDR/EUR | Europe | ITU |
|  | BDT focal point | Ms | Carmen | Prado-Wagner | DKH/RME | Headquarters | ITU |
|  | BDT focal point | Mr | Rodrigo | Robles | DDR/RO-AMS | Americas | ITU |
|  | BDT focal point | Ms | Anne Rita | Ssemboga | DDR/RO-AFR | Africa | ITU |
| **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 |
| until 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 |
|  | BDT focal point | Mr | Mustafa | Al Mahdi | DDR/RO-ARB | Arab States | ITU |
|  | BDT focal point | Mr | Desire | Karyabwite | DNS/FNS | Headquarters | ITU |
|  | BDT focal point | Mr | Jean-Jacques | Massima | DDR/RO-AFR | Africa | ITU |
|  | BDT focal point | Mr | Jaroslaw | Ponder | DDR/EUR | Europe | ITU |
|  | BDT focal point | Mr | Ismail | Shah | DDR/RO-ASP | Asia-Pacific | ITU |
| **Question 6/1** | **Co-rapporteur** | Ms | Elisa | Leonel | Brazil | Americas | Administration |
|  | **Co-rapporteur** | Mr | Parmod | Kumar | India | Asia-Pacific | Administration |
| **March- August 2021** | **Co-rapporteur** | Ms | Archana Goyal | Gulati | India | Asia-Pacific | Administration |
| **until 2020** | **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 | Mr | Laith | Draghmeh | State of Palestine | Arab States | Administration |
|  | Vice-rapporteur | Mr | Mehmet Alper | Tekin | Turkey | Europe | Administration |
|  | BDT focal point | Ms | Rouda | Alamir Ali | DDR/RO-ARB | Arab States | ITU |
|  | BDT focal point | Ms | Sofie | Maddens | DKH/RME | Headquarters | ITU |
|  | BDT focal point | Mr | Farid | Nakhli | DDR/RO-CIS | CIS countries | ITU |
|  | BDT focal point | Mr | Ashish | Narayan | DDR/RO-ASP | Asia-Pacific | ITU |
|  | BDT focal point | Mr | Jaroslaw | Ponder | DDR/EUR | Europe | ITU |
|  | BDT focal point | Mr | Bruno | Ramos | DDR/RO-AMS | Americas | ITU |
|  | BDT focal point | Ms | Anne Rita | Ssemboga | DDR/RO-AFR | Africa | ITU |
| **Question 7/1** | **Rapporteur** | Ms | Amela | Odobašić | Bosnia and Herzegovina | Europe | Administration |
| until 2020 | 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 the 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 |
|  | BDT focal point | Mr | Karim | Abdelghani | DDR/RO-ARB | Arab States | ITU |
|  | BDT focal point | Mr | Sean | Doral | DDR/RO-ASP | Asia-Pacific | ITU |
|  | BDT focal point | Ms | Ida | Jallow | DDR/RO-AFR | Africa | ITU |
|  | BDT focal point | Mr | Farid | Nakhli | DDR/RO-CIS | CIS countries | ITU |
|  | BDT focal point | Mr | Jaroslaw | Ponder | DDR/EUR | Europe | ITU |
|  | BDT focal point | Ms | Ana | Veneroso | DDR/RO-AMS | Americas | ITU |
|  | BDT focal point | Ms | Roxana | Widmer-Iliescu | DNS/DGS | Headquarters | ITU |

**Annex 2: List of ITU-D study group coordinators on key topics of interest**

|  | Study Group 1 | Study Group 2 |
| --- | --- | --- |
| Preparation of topics for WTDC-22 | | |
| Working methods (WTDC-22 Res. 1) | Mr Arseny Plossky, Rapporteur for Q4/1, Russian Federation | Ms Alina Modan, Vice-Chairman, ITU-D SG2, Romania |
| Future study Questions (WTDC-22 Res. 2) | Mr Roberto Hirayama, Vice-Chairman, ITU-D SG1 and Rapporteur for Q2/1, Brazil | Mr Abdelaziz Alzarooni, Vice-Chairman, ITU-D SG2, United Arab Emirates |
| Synergies of future study Questions with regional preparatory processes | Mr Roberto Hirayama, Vice-Chairman, ITU-D SG1 and Rapporteur for Q2/1, Brazil | Ms Maria Bolshakova, Vice-Chairman, ITU-D SG2, Russian Federation |
| Streamlining of WTDC-22 Resolutions | Mr Arseny Plossky, Rapporteur for Q4/1, Russian Federation | |
| WTDC-22 draft declaration | Ms Sameera Belal Momen Mohammad, Vice-Chairman, ITU-D SG1, Kuwait | Ms Amel Khiar, Vice-Rapporteur for Q4/2, Algérie Télécom (Algeria) |
| Other key activities and topics for ITU-D study groups | | |
| Dashboard for monitoring Question progress | Mr Vadym Kaptur, Vice-Chairman, ITU-D SG1 and Co-Rapporteur for Q1/1, Ukraine | Mr Abdulkarim Oloyede, Vice- Rapporteur for Q5/2, Nigeria |
| Inter-sectoral mappings | Mr Arseny Plossky, Rapporteur for Q4/1, Russian Federation | Mr Haim Mazar, Co-Rapporteur for Q7/2, ATDI (France) |
| ITU-CCT (Vocabulary) | Mr Peter Mbengie, Vice-Chairman, ITU-D SG1, Cameroon | Ms Ke Wang, Vice-Chairman, ITU-D SG2, China |
| Statistics (EGTI, EGH) | Ms Anastasia Konukhova, Vice-Chairman , ITU-D SG1 and vice- Rapporteur for Q7/1, Russian Federation | Mr Roland Kudozia, Vice-Chairman, ITU-D SG2, Ghana |
| Synergies of study Questions with BDT projects | FIGI: Mr Ahmed Abdel Aziz Gad, Vice-Chairman, ITU-D SG1, Egypt (Arab Republic of) | FIGI: Mr Fadel Digham, Co-Rapporteur for Q1/2, Egypt |
| PRIDA: Mr Haim Mazar, Co-Rapporteur for Q7/2, ATDI (France) | |
| WTDC Resolution 9 | Mr Roberto Hirayama, Vice-Chairman, ITU-D SG1 and Rapporteur for Q2/1, Brazil | Mr Fadel Digham, Co-Rapporteur for Q1/2, Egypt |

**Annex 3: Regional action guideline for ITU-D study group vice-chairmen**

**Background**

At the Joint SG1 and SG2 management virtual meeting held on 4 August 2020, a question was raised on the procedure and methodology on **how collaboration with study Questions with regional preparatory processes can be carried out in an effective manner**. It was decided at the same meeting that the study group chairmen and the BDT secretariat would prepare guidance on the procedure to address this topic.

At the SG1 management virtual meeting held on 4 August 2020, the need for more guidance was raised as a follow-up:

* from the TDAG Working Group on Resolutions, Declaration and Thematic Priorities (WG-RDTP) to be able to **progress on future of Questions;**
* from the TDAG working group and BDT secretariat on how vice-chairmen for regions can work within the ambit of ITU-D study group rules **to activate regional engagement in ITU-D study groups and to provide relevant ITU-D study group products to countries in each region**.

**Expected results**

1. Meaningful regional (and country-level inputs) on future of Questions, **submitted** through TDAG WG-RDTP (and eventually to WTDC), which
   1. are aligned with thematic clusters of BDT;
   2. address specific regional priorities which mirror the needs of regions and countries;
   3. optimize the effectiveness and efficiency of ITU-D study group as a vehicle for ICT development through a practical approach including a reasonable number of study Questions focused on the study group mandate and addressing current as well as emerging ICT developmental issues.
2. Practical channels of collaboration used at the regional level whereby ITU-D study groups are a relevant vehicle to further the work of BDT in ICT development for each region and each country in the regions [synergies and enhanced working methods] through:
   1. Identification of active contributors to study Questions who provide contributions (in the next study period) on pertinent actions in countries on ICT development that help to enrich the ITU-D study group case study library and lessons learnt compendium, develop study group Question annual deliverables, provide input to output reports, and participate in ITU-D study group workshops/webinars and other ITU events;
   2. Agile engagement of ITU-D study group management team members (was to start immediately) with relevant experience and expertise in projects, workshops and other developmental actions;
   3. Matching of ITU-D study group participants (was to start immediately) with the experience to provide assistance and solutions (as proposed in their contributions).

**Guidelines**

1. The ITU-D study group secretariat can provide support by connecting vice-chairmen to ITU regional office staff through an **introductory virtual meeting or e-mail**, where more guidance on how to engage at regional group level can be discussed and agreed upon. Updates on Regional Development Forums (RDFs), Regional Preparatory Meetings (RPMs) and ITU regional actions can be also obtained (and a mechanism for regular updates agreed upon).
   1. Based on the above guideline, a first meeting was held for each region so that vice-chairmen could work with regional offices on the various aspects of the TDAG WG-RDTP mandate and provide inputs to the report of the Chairman of TDAG WG-RDTP in time for submission to the TDAG meeting in November 2020. Coordinators from ITU-D study groups for TDAG WG-RDTP aspects are listed in Table 1.

**Table 1: Coordinators from ITU-D study groups for the TDAG Working Group on Resolutions, Declaration and Thematic Priorities**

|  |  |  |
| --- | --- | --- |
| Item | SG1 Coordinator | SG2 Coordinator |
| WTDC Res 9. | Mr Roberto Hirayama (Brazil, SG1 Vice-Chairman, Q2/1 rapporteur) | Mr Fadel Digham (Egypt, Q1/2 Co-Rapporteur) |
| Working methods | Ms Regina Fleur Assoumou Bessou (Côte d’Ivoire, SG1 Chairman) and Mr Arseny Plossky (Russian Federation, Q4/1 Rapporteur) | Ms Alina Modan (Romania, SG2 Vice-Chairman) |
| Synergies of future study Questions with regional preparatory processes | Lead: Mr Roberto Hirayama (Brazil, SG1 Vice-Chairman, Q2/1 rapporteur)  Other SG1 vice-chairmen to provide support for each region | Lead: Ms Maria Bolshakova (Russian Federation, SG2 Vice-Chairmen, Q3/2 Vice-Rapporteur)  Other SG2 vice-chairmen to provided support for each region |
| Streamlining of WTDC resolutions | Mr Arseny Plossky (Russian Federation, Q4/1 rapporteur) | |
| Draft WTDC Declaration | Ms Sameera Belal Momen Mohammad (Kuwait, SG1 Vice-Chairman) | Ms Amel Khiar (Algerie Telecom (Algeria), Q4/2 Vice-Rapporteur) |

1. Connect to and through ITU regional offices to identify where to intervene on behalf of ITU-D study groups and as an ITU expert or as a country experience provider, in line with ITU regional office needs.
2. Convey the message **to get the expected results listed in the previous section**, in relevant meetings of regional (and subregional) groups, in RDFs and in RPMs. More information is available in **Table 2**.
3. If you need to connect to regional groups you may wish to go **through the ITU regional office**, for better coordination.
4. **Attend** preparatory meetings of regional groups and **present/submit contributions** where sharing of possible benefits that can come from ITU-D study group engagement. This is to be done in coordination with ITU regional offices.
5. In agreement with ITU regional offices, be **a speaker/ active collaborator at RDFs** to present ITU-D study group work (in general or on specific areas as requested) to share how ITU-D study groups act as a vehicle for ICT development as explained in section 2 of expected results.
6. Attend the **RPM and represent ITU-D study groups** while aligning with ITU regional office input. This may involve submission of a contribution.
7. **Bring your expertise** in relevant projects in the region, regional workshops, webinars and other ITU actions carried out by the regional office, and request that relevant contributions be submitted at the ITU-D study group level by implementing countries/event hosts.
   1. For specific ITU-D study group Questions, BDT regional focal points ([listed here](https://www.itu.int/net4/ITU-D/CDS/sg/rapporteurs.asp?lg=1&sp=2018)) can support where needed.
   2. For specific ITU projects, kindly liaise via ITU-D study group secretariat for guidance to the relevant ITU regional colleague.
   3. For other items, the regional director is the first contact who can then delegate to other ITU regional office staff. The ITU-D study group secretariat may offer guidance as needed.
8. If you identify other (non-ITU or non-BDT) regional events that may be of interest to ITU-D study groups and to ITU regional offices, contact the ITU-D study group secretariat (and ITU regional office) to discuss possible involvement of ITU.
9. Contact the ITU-D study group secretariat to share results of items 5 to 9 above for support on follow-up.

**Table 2: Regional Groups Information (last updated on 01.11.2020)**

| **Region** | **Regional Group(s)** | **RDF and RPM**  **ITU Regional focal points (FP) and dates** | **ITU-D study group vice-chairmen** |
| --- | --- | --- | --- |
| **Africa** | ATU | RDF focal point was [Ms Christine SUND](mailto:christine.sund@itu.int) and was held online 5-7 October 2020. RPM focal point was [Mr Andrew RUGEGE](mailto:andrew.rugege@itu.int) and was held online on 29-30 March 2021. | [Mr Amah Vinyo CAPO](mailto:capo@artp.tg) (Togo)  [Mr Peter Ngwan MBENGIE](mailto:mbengie@yahoo.com) (Cameroon)  [Mr Roland Yaw KUDOZIA](mailto:roland.kudozia@nca.org.gh) (Ghana)  [Mr Henry Chukwudumeme NKEMADU](mailto:hcnkemadu@ncc.gov.ng) (Nigeria) |
| **Americas** | CITEL | RDF focal point was [Mr Sergio SCARABINO](mailto:Sergio.Scarabino@itu.int) and was held online on 26 October 2020. RPM focal point was [Mr Bruno RAMOS](mailto:bruno.ramos@itu.int) and was held online on 26-27 April 2021. | [Mr Roberto HIRAYAMA](mailto:hirayama@anatel.gov.br) (Brazil)  [Mr Víctor MARTÍNEZ](mailto:victormartinez@conatel.gov.py) (Paraguay)  [Ms Celina DELGADO](mailto:cdelgado@telcor.gob.ni) (Nicaragua) |
| **Arab States** | LAS | RDF focal point was [Mr Karim ABEDELGHANI](mailto:karim.abdelghani@itu.int) and was held on 25-26 November 2020. RPM focal point was [Mr Adel DARWISH](mailto:adel.darwish@itu.int) and was held online on 7-8 April 2021. | [Ms Sameera BELAL MOMEN MOHAMMAD](mailto:s.belal@citra.gov.kw) (Kuwait)  [Mr Ahmed Abdel Aziz GAD](mailto:agad@tra.gov.eg) (Egypt)  [Mr Abdelaziz ALZAROONI](mailto:Abdelaziz.alzarooni@aecert.ae) (United Arab Emirates)  [Ms Nora Abdalla Hassan BASHER](mailto:nora@tpra.gov.sd) (Sudan) |
| **Asia-Pacific** | APT | RDF focal point was [Mr Aamir RIAZ](mailto:aamir.riaz@itu.int) and was held online on 2-5 November 2020. RPM focal point was [Ms Atusko OKUDA](mailto:atsuko.okuda@itu.int) and was held online on 9-10 March 2021. | [Mr Yasuhiko KAWASUMI](mailto:kawasumi-yasuhiko@s3.dion.ne.jp) (Japan)  [Mr Sangwon KO](mailto:sangwon@kisdi.re.kr) (Republic of Korea)  [Mr Ananda Raj KHANAL](mailto:arkhanal@nta.gov.np) (Republic of Nepal)  [Ms Ke WANG](mailto:wangke@caict.ac.cn) (China) |
| **Commonwealth of Independent States (CIS)** | RCC | Focal point was [Ms Natalia MOCHU](mailto:natalia.mochu@itu.int). RDF was held online on 14-15 December 2020 and RPM was held online on 21-22 April 2021. | [Ms Anastasia Sergeyevna KONUKHOVA](mailto:konukhova@niir.ru) (Russian Federation)  [Mr Almaz TILENBAEV](mailto:almaz.tilenbaev@gmail.com) (Kyrgyzstan)  [Ms Maria BOLSHAKOVA](mailto:mrbolshakova@gmail.com) (Russian Federation)  [Mr Tolibjon Oltinovich MIRZAKULOV](mailto:t.mirzakulov@mitc.uz) (Uzbekistan) |
| **Europe** | COM-ITU CEPT | Focal point was [Mr Jaroslaw PONDER](mailto:jaroslaw.ponder@itu.int) for RDF and RPM. RDF was held online 26 May 2020 and RPM was held online on 18-19 January 2021. | [Mr Vadim KAPTUR](mailto:vadim.kaptur@onat.edu.ua) (Ukraine)  [Ms Amela ODOBAŠIC](mailto:aodobasic@rak.ba) (Bosnia and Herzegovina)  [Ms Alina MODAN](mailto:alina.modan@ancom.org.ro) (Romania)  [Mr Dominique WÜRGES](mailto:dominique.wurges@orange.com) (France) |

The focal points for RPMs are always the ITU regional office directors. The dates for RPMs are posted on the [Regional Consultation page](https://www.itu.int/en/ITU-D/Conferences/WTDC/WTDC21/Pages/Regional-Consultations.aspx) of the WTDC-22 website.

**Annex 4: Work plan of ITU-D Study Group 1 (updated in October 2021)**

Calendar

Description automatically generated

**Annex 4: Work plan of ITU-D Study Group 1 (updated in October 2021) continued**

Timeline

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**Annex 5: ITU-D Study Group 1, rapporteur group, and expert group meetings and associated workshops and webinars (2018-2022 study period)**

The list can be found online at

| **Study group / rapporteur group meetings** | **Date and location** |
| --- | --- |
| **Study Group 1 meetings** |  |
| [Fourth meeting of ITU-D Study Group 1](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=26283) | 22 to 26 March 2021, fully virtual meeting |
| [Third meeting of ITU-D Study Group 1](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=24909) | 17 to 21 February 2020, Switzerland (Geneva) |
| [Second meeting of ITU-D Study Group 1](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=21832) | 18 to 22 March 2019, Switzerland (Geneva) |
| [First meeting of ITU-D Study Group 1](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=20348) | 30 April 2018 to 4 May 2018, Switzerland (Geneva) |
| **Rapporteur group meetings** |  |
| [Plenary and rapporteur group e-meetings](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&stg=1&sp=2018&blk=27665) | 11- 15 October 2021, fully virtual meeting |
| [Plenary and rapporteur group e-meetings](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=24968) | 21 September - 2 October 2020, fully virtual meeting |
| [Rapporteur group e-meetings](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=21834) | 23 September - 4 October 2019, Switzerland (Geneva) |
| [Rapporteur group e-meetings](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=20350) | 17 - 28 September 2018, Switzerland (Geneva) |
| **Informal eMeetings** |  |
| [Informal ITU-D Study Group 1 rapporteur group meetings](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=26281) | 1-5 March 2021, fully virtual meeting |
| **Joint eMeetings** |  |
| [Joint ITU-D Study Groups 1 and 2 plenary Meeting](https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=26278) | 31 March - 1 April 2021, fully virtual meeting |

All associated workshops and webinars are detailed on ITU-D study group websites on pages dedicated to workshops and other events see <https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/events_workshops.aspx>

**Annex 6: Revised terms of references of Questions submitted to TDAG meeting for consideration (November 2021)**

The terms of reference are also available in [TDAG-21/2/DT/4](https://www.itu.int/md/D18-TDAG29-211108-TD-0004/). The revision marks in the DT document indicate changes between the approved terms of reference at WTDC-17 and the revised terms of reference agreed at the Study Group 1 meetings held in October 2021.

|  |  |
| --- | --- |
| **Question** | **Revised text approved at SG1 Meeting** |
| Q1/1 | [SG1RGQ/420](https://www.itu.int/md/D18-SG01.RGQ-C-0420/en) (Rev.1) |
| Q2/1 | [SG1RGQ/421](https://www.itu.int/md/D18-SG01.RGQ-C-0421/en) (Rev.1) |
| Q3/1 | [SG1RGQ/422](https://www.itu.int/md/D18-SG01.RGQ-C-0422/en) (Rev.1) |
| Q4/1 | [SG1RGQ/423](https://www.itu.int/md/D18-SG01.RGQ-C-0423/en) (Rev.1 |
| Q5/1 | [SG1RGQ/424](https://www.itu.int/md/D18-SG01.RGQ-C-0424/en) (Rev.1) |
| Q6/1 | [SG1RGQ/425](https://www.itu.int/md/D18-SG01.RGQ-C-0425/en) (Rev.1) |
| Q7/1 | [SG1RGQ/426](https://www.itu.int/md/D18-SG01.RGQ-C-0426/en) (Rev.1) (same as [TDAG-21/32](https://www.itu.int/md/D18-TDAG28-C-0032/en)) |

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1. <https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/Publications.aspx> [↑](#footnote-ref-1)
2. <https://www.youtube.com/playlist?list=PLpoIPNlF8P2PTdyZ2pMP18ylsq6Kr-kfb> [↑](#footnote-ref-2)
3. For Question2/1, Question 3/1, 2 for Question 4/1, Question 6/1, Question 7/1 [↑](#footnote-ref-3)
4. One for Question 3/1 and one joint SG1&SG2 in 2020, several speakers in WSIS 2021 [↑](#footnote-ref-4)
5. 4 cross cutting Questions, 2 each for Question 1/1 & for Question 2/1, 2 joint ones for Questions 3/1&4/1, 1 for Question 4/1, 2 for Question 5/1, 2 for Question 7/1 [↑](#footnote-ref-5)
6. See list at <https://www.itu.int/en/myitu/Publications/2020/09/09/13/13/ITU-News-Magazine-No3-2020> [↑](#footnote-ref-6)
7. See <https://www.itu.int/en/myitu/Publications/2020/09/09/13/13/ITU-News-Magazine-No3-2020> [↑](#footnote-ref-7)
8. <https://www.itu.int/en/ITU-D/Conferences/GSR/2021/Pages/default.aspx> [↑](#footnote-ref-8)
9. Stepped down in October 2018 [↑](#footnote-ref-9)
10. RED Africa 2020 <https://www.itu.int/en/ITU-D/Regulatory-Market/Pages/Events2020/RED-AFR-2020.aspx> and ITU Colloquium Americas https://www.itu.int/en/ITU-D/Regulatory-Market/Pages/Events2020/RED-AFR-2020.aspx [↑](#footnote-ref-10)
11. See RDF Africa https://www.itu.int/en/ITU-D/Regional-Presence/Africa/Pages/EVENTS/2020/RDF.aspx [↑](#footnote-ref-11)
12. See Africa RPM NOW event <https://www.itu.int/en/ITU-D/Conferences/WTDC/WTDC21/NoW/Pages/Events/Regional/Africa/2021_03.aspx> and RPM Europe <https://www.itu.int/en/ITU-D/Conferences/WTDC/WTDC21/Pages/RPM-EUR.aspx> [↑](#footnote-ref-12)
13. See Connect to Include <https://www.itu.int/en/ITU-D/Conferences/WTDC/WTDC21/R2A/Pages/Connect2Include.aspx> [↑](#footnote-ref-13)
14. Joint ITU-T, ITU-R and ITU-D events held for Americas, Europe and Asia and the Pacific [↑](#footnote-ref-14)
15. See acknowledgements <https://www.itu.int/dms_pub/itu-d/opb/tnd/D-TND-01-2020-PDF-E.pdf> [↑](#footnote-ref-15)
16. <https://academy.itu.int/training-courses/full-catalogue/introduction-service-quality-regulation> [↑](#footnote-ref-16)
17. <https://academy.itu.int/training-courses/full-catalogue/emerging-technology-last-mile-connectivity> [↑](#footnote-ref-17)
18. <https://www.itu.int/md/D18-SG01-C-0002> [↑](#footnote-ref-18)
19. See RPM-EUR chairman report at <https://www.itu.int/md/D18-RPMEUR-C-0034/> [↑](#footnote-ref-19)
20. Details of workshops and other events are available here: <https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/events_workshops.aspx> [↑](#footnote-ref-20)
21. See Reflections on COVID-19 series at <https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/covid19/webinars/1stSeries.aspx> [↑](#footnote-ref-21)
22. See meeting webpage <https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=20348> [↑](#footnote-ref-22)
23. See meeting webpage <https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=21832> [↑](#footnote-ref-23)
24. See <https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/OngoingWork.aspx> [↑](#footnote-ref-24)
25. See meeting webpage <https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=24909> [↑](#footnote-ref-25)
26. See <https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/OngoingWork.aspx> [↑](#footnote-ref-26)
27. See meeting webpage <https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=24968> [↑](#footnote-ref-27)
28. See meeting webpage <https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=26283> [↑](#footnote-ref-28)
29. See all approved reports as latest revisions (Rev) at <https://www.itu.int/md/meetingdoc.asp?lang=en&parent=D18-SG01-210322-C&question=OR> [↑](#footnote-ref-29)
30. See <https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/OngoingWork.aspx> [↑](#footnote-ref-30)
31. See meeting webpage <https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&stg=1&sp=2018&blk=27665> [↑](#footnote-ref-31)
32. See meeting webpage <https://www.itu.int/net4/ITU-D/CDS/sg/blkmeetings.asp?lg=1&sp=2018&blk=26278> [↑](#footnote-ref-32)
33. <https://www.itu.int/en/general-secretariat/ties/ISCGDocumentLibrary/Liaisons%20Statements%20on%20Inter-Sectoral%20Coordination%20Activities/Table%201.pdf> and <https://www.itu.int/en/general-secretariat/ties/ISCGDocumentLibrary/Liaisons%20Statements%20on%20Inter-Sectoral%20Coordination%20Activities/Table%203.pdf> [↑](#footnote-ref-33)
34. ITU-CCT meetings (study period 2018-2022): [R15-CCV/47](https://www.itu.int/md/R15-CCV-C-0047) (1 June 2018), [R15-CCV/49](https://www.itu.int/md/R15-CCV-C-0049) (22 Nov. 2018), [R15-CCV/59](https://www.itu.int/md/R15-CCV-C-0059) (17 June 2019), [R19-CCV/3](https://www.itu.int/md/R19-CCV-C-0003) (3 June 2020), [R19-CCV/11](https://www.itu.int/md/R19-CCV-C-0011) (7 Dec. 2020), [R19-CCV/14](https://www.itu.int/md/R19-CCV-C-0014) (7 April 2021), [R19-CCV/20](https://www.itu.int/md/R19-CCV-C-0020) (23 June 2021), [R19-CCV/21](https://www.itu.int/md/R19-CCV-C-0021) (8 September 2021) and R19-CCV/33 (8 February 2022). [↑](#footnote-ref-34)
35. Liaison statements are [1/273](https://www.itu.int/md/D18-SG01-C-0273/) , [1/274](https://www.itu.int/md/D18-SG01-C-0274/) , [[1/407](https://www.itu.int/md/D18-SG01-c-0407/)](http://www.itu.int/md/D18-SG01.RGQ-C-0331/) [↑](#footnote-ref-35)
36. More information about FIGI is available in <https://www.itu.int/net4/ITU-D/CDS/projects/display.asp?ProjectNo=9GLO17088>. [↑](#footnote-ref-36)
37. More information about PRIDA is available in <https://www.itu.int/en/ITU-D/Projects/ITU-EC-ACP/PRIDA/Pages/default.aspx>. [↑](#footnote-ref-37)