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| **Telecommunication Development Advisory Group (TDAG)**  **25th Meeting, Geneva, 2-5 June 2020** | C:\Users\comas\AppData\Local\Temp\Rar$DRa0.735\jpg\ITU official logo_blue_RGB.jpg |
|  | **Revision 1 to** |
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|  | **20 May 2020** |
|  | **English only** |
| Chairman, ITU-D Study Group 2 | |
| ITU-D STUDY GROUP 2 – ACTIVITIES AND PROGRESS | |
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| **Summary:**  This report presents to TDAG the current status of ITU-D Study Group 2. It provides some highlights from the third meetings of SG2 for the 2018-2021 study period which were held from 24 to 28 February 2020, as well as the Rapporteur Group meetings held from 7 to 18 October 2019, and reviews the work plan.  The Rapporteur Groups for all seven SG2 questions are progressing well towards WTDC expected outputs. The second annual ITU-D SG2 meeting received several draft texts for the development of output reports for the study period, and one annual deliverable submitted for consideration and release by the SG2 Plenary.  The following aspects are also brought to the consideration of TDAG:   * A proposal to harmonize mapping information received from TSAG (Document [TDAG-20/23](https://www.itu.int/md/D18-TDAG25-C-0023)) with the mapping information currently maintained by the Inter-Sector Coordination Group (ISCG) on issues of mutual interest (see Section 4.1 and Annex 5 of this report). * A proposed change in dates for the 2021 March SG1 and SG2 meetings (SG2 to be held from 15 to 19 March 2021, before SG1 to be held from 22 to 26 March 2021) is also put forward for consideration by TDAG (see Section 7 of this report).   **Action required:**  TDAG is invited to note this document and provide guidance as deemed appropriate.  **References:**  WTDC Resolution 2 (Rev. Buenos Aires, 2017), Resolution 1 (Rev. Buenos Aires, 2017) | |

# Highlights

ITU-D Study Group 2 (SG2) examines several issues: ICTs for the creation of smart cities and societies, telecommunications/ICTs for e-health, building of confidence and security in the use of ICTs, conformance and interoperability testing, combat of counterfeit ICT equipment and theft of mobile devices, use of telecommunications/ICTs in mitigating the impact of climate change on developing countries, and for disaster preparedness, mitigation and relief, as well as, human exposure to electromagnetic fields and safe disposal of electronic waste.

Highlights from the third SG2 meeting for the 2018-2021 study period include:

* 108 participants including from 41 Member States and Palestine;
* Appointment of 2 Vice-Chairmen (CIS and Europe regions), 1 Co-Rapporteur and 2 Vice-Rapporteurs to support the Questions under study, following resignations of several members from the SG2 management teams;
* 107 contributions to advance the work, including draft chapters for final output reports and an annual deliverable submitted for consideration and release;
* 10 incoming liaison statements were received and 5 outgoing liaison statements were agreed.
* A special session on “IoT for development: opportunities and risks for developing countries” was held on Monday 24 February to provide a better understanding of IoT and related systems, technologies and applications across different sectors, to explore its potential for development and to inform the participants of the underlying opportunities and challenges, especially in developing countries;
* A panel session was held to discuss the themes pertaining to the new annual deliverable submitted by ITU‑D Question 1/2 on “Security and trust for the creation of smart cities”. It was agreed to initiate a coordination process to receive further inputs and edits from experts, and at the end of the process, release the resulting document under the auspices of the SG2 Chairman (i.e., no TIES account needed to access the report) under a section titled “Ongoing Work” ([website for ongoing work](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/OngoingWork.aspx)) to provide ITU membership with timely information, to inform the public of the ongoing work, and to stimulate and encourage further contributions on these topics;
* Discussions were held to further advance on the mapping work between ITU-D SG1 and SG2 Questions (intra-sector mapping) and with the activities of the other ITU sectors (inter-sector mapping). Some updates were made to the intra-sector mapping. Regarding the mapping with ITU‑T activities, harmonization with TDAG is required with respect to a proposal received from TSAG which is significantly different from the mapping stored in the common repository maintained by the Inter Sector Coordination Group. A proposal is included for consideration by TDAG;
* Progress was made on the implementation of ITU Plenipotentary Conference Resolution 131 through initial studies of linkages between ITU-D Questions with activities of the Expert Group on ICT Household Indicators (EGH) and the Expert Group on Telecommunication/ICT Indicators (EGTI), and a joint SG1-SG2 liaison statement was agreed to be sent for further collaboration with these Expert Groups;
* Progress was made on the implementation of WTDC Resolution 9 by identifying topics for collaboration from the relevant Questions.
* Initial discussions were held on new topics in preparation for Questions to be studied during the next study period;
* Detailed information was shared with the participants on the next WSIS Forum 2020, and updates were provided on preparations for a dedicated session on key topics by ITU-D study groups during the Forum.

Highlights from the second block of SG2 Rapporteur Group meetings include:

* 120 participants including from 40 Member States and Palestine participated in the Rapporteur Group meetings and associated sessions/workshops during the two weeks of meetings;
* 94 contributions to progress the work and drafting of deliverables;
* 13 incoming liaison statements were received and 3 outgoing liaison statements dispatched following the meetings.
* The meetings refined the outlines of SG2 Question deliverables and continued drafting and exchanging on chapters of the reports, guidelines and case studies;
* 5 sessions/workshops/tutorials in relation with the Questions under study in SG2 were organized in conjunction with the SG2 Rapporteur Group meetings to help deepen knowledge on topics treated by the Questions and encouraging sharing of knowledge with other sectors and organizations.
* Ideas exchanged on collaboration possibilities between the ITU-D study groups and the WSIS platform, including the WSIS stocktaking database and the WSIS Forum. It was agreed to organize a dedicated session during the next WSIS Forum 2020 to present some key topics worked by the ITU-D study groups and to open opportunities for further collaboration.

# Overview of the work of ITU-D Study Group 2

# 2019 Study Group 2 Rapporteur Group meetings (7-18 October 2019)

The 2019 Study Group 2 Rapporteur Group meetings refined the work plans and outlines of SG2 Question deliverables and continued drafting and exchanging on chapters of the reports, guidelines and case studies.

In conjunction with the meetings, with the purpose of deepening knowledge on the topics treated by the Questions under study and work plans subsequently developed, and encouraging sharing of knowledge with other sectors and organizations, an integral part of the rapporteur group meetings held from 7 to 18 October 2019 included focus sessions, workshops and tutorials. These events invited not only experts from ITU members but also several non-ITU members to the discussions. In total five focus sessions/workshops/tutorials were organized, with the following topics (the links lead to the detailed programme of each focus session/workshop/tutorial):

* All SG1 and SG2 Questions: [Workshop/tutorial on AI and emerging technologies](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/tutorial_AI_oct19.aspx) (held on 11 October 2019). The purpose of this workshop and tutorial was to learn more about emerging technologies, especially artificial intelligence, such as understanding what they can or cannot do, how they can be applied to address development challenges, as well as learning practical case studies of their applications and lessons learned;
* Question 2/2: [New communication technologies for e-health and socio-economic issues](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/session-Q2-2-oct19.aspx) (held on 14 October 2019);
* Question 4/2: [ICT Conformance and Interoperability: challenges for developing countries](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/session-Q4-2-oct19.aspx) (held on 16 October 2019);
* Question 5/2: [Conducting National Level Emergency Communications Drills and Exercises: Guidelines for Small Island Developing States (SIDs) and Least Developed Countries (LDCs)](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/session-Q5-2-oct19.aspx) (held on 7 October 2019);
* Question 6/2: [Frontier ICTs for climate action](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/session-Q6-2-oct19.aspx) (held on 15 October 2019);

Insightful and useful information gathered during the sessions will contribute towards the development of new annual deliverables and output reports for the study period.

In the context of collaboration between activities of the ITU-D Questions and with the other ITU Sectors, several liaison statements from ITU-T study groups that propose updates to mappings between ITU-D study Questions and the works of the ITU-T Sector were reviewed. It is recalled that, through a liaison statement sent by the chairmen of SG1 and SG2 to TDAG (Document [TDAG-19/41](https://www.itu.int/md/D18-TDAG24-C-0041)), it was agreed that all documents related to inter-sector mappings would be stored as living documents in a common repository, currently maintained by the Inter-Sector Coordination Group (ISCG) on issues of mutual interest. Consequently, further updates will be maintained through coordination between the ISCG and representatives of the three ITU Bureaus.

Also and following initial discussions held during the second annual meetings of ITU-D Study Group 2 (25-29 March 2019) on collaboration opportunities with the WSIS platform, this meeting further explored some benefits and possible next steps for further collaboration, including usage of the WSIS Stocktaking Database as a source to complement ongoing work and planned deliverables. Also, the meeting explored and agreed to organize a dedicated session focused on the work of ITU-D study groups during the WSIS Forum 2020 in order to increase opportunities for collaboration with the WSIS platform.

# Third Study Group 2 meeting for the study period (24-28 February 2020)

The third meeting of Study Group 2 took place from 24 to 28 February 2020 with 108 delegates present from 47 countries[[1]](#footnote-2). Of these, 74 were representatives from Member States, 25 from Sector Members, 8 from Associates and Academia, and 7 from international and regional organizations. Statistics summarizing participation by region, contributions by Question, and other data can be found in ([2/ADM/22 + Annex](https://www.itu.int/md/D18-SG02-ADM-0022)).

The BDT Director, Ms Doreen Bogdan Martin[[2]](#footnote-3), and the Chairman of Study Group 2, Prof. Ahmad Reza Sharafat (Islamic Republic of Iran), were joined by the following appointed Vice-Chairmen: Mr Abdelaziz Alzarooni (United Arab Emirates), Mr Dominique Würges (France) and Mr Roland Yaw Kudozia (Ghana). Ms Ke Wang (People’s Republic of China) joined also remotely. Following the resignations of Vice-Chairmen Mr Filipe Miguel Antunes Batista (Portugal) and Mr Yakov Gass (Russian Federation), the two following candidates were considered during this meeting and were newly appointed as Vice-Chairmen: Ms Maria Bolshakova (Russian Federation) and Ms Alina Modan (Romania). Together the team guided SG2 through the 107 contributions submitted to advance the work.

Following also the resignations of a Co-Rapporteur and several Vice-Rapporteurs, there was a need to reinforce some of the management teams and to ensure good progress. As a result of related discussions in SG2, 1 co-Rapporteur and 2 Vice-Rapporteurs were newly appointed based on their expertise and experience. **Annex 1** to this report includes the new members of the SG2 management team.

This third meeting reviewed the work progress made by the SG2 rapporteur groups last year. Good progress was made overall, and members were encouraged to contribute further on remaining topics that required more inputs. SG2 received also several draft texts that contributed to the development of draft annual deliverables and draft output reports related to the Questions under study.

A special session on “IoT for development: opportunities and risks for developing countries” was also held on Monday 24 February as part of the SG2 Plenary. The purpose of the session was to better understand the overall concept of IoT, get an overview of related systems, technologies and applications across different sectors, explore its potential for development and inform the participants of the underlying opportunities and challenges especially in developing countries.[[3]](#footnote-4)

One annual deliverable, entitled “Security and trust for the creation of smart cities” ([2/259(Rev.1)](https://www.itu.int/md/D18-SG02-C-0259)) was submitted by the Rapporteur Group for Question 1/2 for release. The deliverable describes issues and provides guidelines related to trust and safety in the context of smart cities, including the security of architecture, infrastructure, connected objects and data generated or collected from people, as well as some related case studies. A related panel session was also held to present the deliverable and debate around these topics. Based on discussions and in order to benefit from synergies with other Questions such as Question 3/2 (“Securing information and communication networks: Best practices for developing a culture of cybersecurity”), SG2 agreed to initiate a coordination process to receive further inputs and edits from experts, and at the end of the process, release the resulting document (i.e., no TIES account needed to access this annual deliverable) under the auspices of the SG2 Chairman under a section titled “Ongoing Work” ([website for ongoing work](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/OngoingWork.aspx)) to provide ITU membership with timely information, to inform the public of the ongoing work, and to stimulate and encourage further contributions on these topics. It should be noted that annual deliverables produced by the study groups, as encouraged by WTDC-17, are new in the Development Sector and not yet covered in Resolution 1 (ITU-D rules of procedure).

As part of the ongoing synergy and collaboration efforts between the ITU-D study Questions, the SG1 and SG2 management teams discussed future ways of encouraging the production of joint deliverables. A proposal was made about associating the study Questions to specific “tracks” (e.g. digital infrastructure, services and apps, consumer) as a starting point to identify cross-relations between the topics and engage corresponding stakeholders, including from the regions. This approach will be further explored through appointment of representatives from both study groups to coordinate the discussion. Regarding the ongoing mapping exercise between ITU-D SG1 and SG2 Questions, some updates were also made to adjust with the current priorities and objectives (more details are provided in **Section 4.1**, **Annex 3** and **Annex 4** of this report).

In the context of collaboration between activities of the ITU-D Questions and the other ITU Sectors, this third Study Group 2 meeting received a liaison statement from TSAG (also received by TDAG in Document [TDAG-20/23](https://www.itu.int/md/D18-TDAG25-C-0023)), which includes mapping matrix and tables between ITU-D and ITU-T study Questions that are significantly different from the ones in the ISCG common repository. Harmonization of the proposals coming from TSAG with the mapping information in the ISCG common repository is therefore required so that a joint document can be considered by ISCG. A proposal is described in **Section 4.1** of this report. In order to factilitate information exchange and encourage synergies with the other ITU Sectors, two presentations were also provided by the TSB and the BR, respectively on emerging topics in standardization and preparations for WTSA-20 (Document [2/318 + Annex](https://www.itu.int/md/D18-SG02-C-0318)) and on outcomes of WRC-19 and RA-19 ([2/319 + Annex](https://www.itu.int/md/D18-SG02-C-0319) (Rev.2)).

In the context of implementing ITU Plenipotentiary Conference (PP) Resolution 131 (Rev. Dubai, 2018) on “Measuring information and communication technologies to build an integrating and inclusive information society” and WTDC Resolution 8 (Rev. Buenos Aires, 2017) on “Collection and dissemination of information and statistics”, two liaison statements from the Expert Group on ICT Household Indicators (EGH) and the Expert Group on Telecommunication/ICT Indicators (EGTI) respectively were received with the aim 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. Several member contributions in support and complement of these liaison statements were also reviewed to devise possible ways forward. As a result of the discussions, rapporteur groups were invited to: 1) initiate studies on linkages between ITU-D study Questions and activities of EGH and EGTI through a mapping table, express what indicators and data they know are already captured in other surveys and/or that they already use for their work (like data gathered through the regulatory survey) and 2) data requirements they have for their current studies and possible future work. **Annex 6** of this report contains initial proposals on what this could look like. All rapporteur groups will review the proposed material and provide feedbacks so that a joint liaison statement from SG1 and SG2 can be prepared and sent to EGH and EGTI before their next meetings.

In an effort to implement WTDC Resolution 9 (Rev. Buenos Aires, 2017) on “Participation of countries, particularly developing countries, in spectrum management”, and in particular to fulfil the needs of the developing countries stated therein, the ITU-D study groups had identified in Document [TDAG-19/40](https://www.itu.int/md/D18-TDAG24-C-0040) relevant Questions that would require close collaboration with the relevant parties in ITU-R to achieve their objectives. During this third annual meeting and based on their activities and discussions over the past meetings, the rapporteur groups of these Questions futher elaborated the topics for such collaboration; these topics are detailed in **Section 4.2** of this report.

In prepraration for the next study cycle, all rapporteur groups were invited to discuss initial ideas on future topics of study. Some of the ideas exchanged were open to areas related to the Questions under study as well as new topics. Examples of ideas suggested included: studies of new applications and case studies in collaboration with ongoing or new activities in other ITU sectors; deeper analysis of activities from other relevant organizations and databases (such as the WSIS stocktaking database) to further enrich the scope of the Question and opportunities for collaboration; more focus on impacts generated by new types of devices and emerging technologies; more focus on stakeholder coordination and other aspects specific to each Question. While this annual meeting did not provide ample time for the rapporteur groups to elaborate them further, more detailed discussion is expected during the next rapporteur group meetings, including based on contributions from members.

Finally and as a follow-up to the discussion held during the last rapporteur group meetings on collaboration opportunities with the WSIS platform, preparations have progressed well to organize a dedicated session during the WSIS Forum 2020 to present some key topics worked by the ITU-D study groups. The programme of the session and selection of speakers has also progressed through consultation with the study group management teams. This meeting received also several contributions related to WSIS, including information from the WSIS Secretariat about the WSIS Forum 2020 and other WSIS activities and their potential linkages with the ITU-D study Questions, as well as contributions illustrating how some case studies contribute to the implementation of the WSIS Action Lines.

# Reports of Rapporteur Group meetings

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

* Question 1/2 available here: ([October 2019](https://www.itu.int/md/D18-SG02.RGQ-R-0008))([February 2020](https://www.itu.int/md/D18-SG02-R-0017))
* Question 2/2 available here: ([October 2019](https://www.itu.int/md/D18-SG02.RGQ-R-0009))([February 2020](https://www.itu.int/md/D18-SG02-R-0018))
* Question 3/2 available here: ([October 2019](https://www.itu.int/md/D18-SG02.RGQ-R-0010))([February 2020](https://www.itu.int/md/D18-SG02-R-0019))
* Question 4/2 available here: ([October 2019](https://www.itu.int/md/D18-SG02.RGQ-R-0011))([February 2020](https://www.itu.int/md/D18-SG02-R-0020))
* Question 5/2 available here: ([October 2019](https://www.itu.int/md/D18-SG02.RGQ-R-0012))([February 2020](https://www.itu.int/md/D18-SG02-R-0021))
* Question 6/2 available here: ([October 2019](https://www.itu.int/md/D18-SG02.RGQ-R-0013))([February 2020](https://www.itu.int/md/D18-SG02-R-0022))
* Question 7/2 available here: ([October 2019](https://www.itu.int/md/D18-SG02.RGQ-R-0014))([February 2020](https://www.itu.int/md/D18-SG02-R-0023))

# Strategy and work plan for Study Group 2

Study Group 2 works in accordance with the scope of work defined in Resolution 2 (Rev. Buenos Aires, 2017) “Establishment of study groups” to reach its expected results for the 2018-2021 study period. The third annual meeting reviewed the work progress with respect to the four-year SG2 work plan, shown in **Annex 2** to this report.

While noting and thanking the rapporteur groups for the good progress of the study Questions in conformance with the work plan, the SG2 Chairman reminded of the remaining work still to be done ahead to prepare for the output reports. He invited proactive engagement from the management teams and members by submitting new contributions including case studies, lessons learned and ensuring that they serve as good bases for the development of quality output reports. The importance of expanding efforts to invite for more contributions and the need to also pay more attention to the substance with respect to the remaining work were also highlighted.

The SG2 Chairman also encouraged the rapporteur groups to follow-up with more in-depth discussions and contributions on new proposed topics for the next study period, with the objective of submitting solid proposals to the fourth (last) annual SG2 meeting to be held in March 2021.

# Collaboration and coordination with ITU-D Study Group 1 and other Sectors and organizations on matters of shared interest

# Mapping between ITU-D study Questions and between work in ITU-D study groups to work in the other sectors

As introduced in **Section 2.1** of this report, mapping matrix and tables between the ITU-D study Questions and between the ITU-D study Questions and the work in the other ITU sectors were reviewed during the previous TDAG meeting (Document [TDAG-19/41](https://www.itu.int/md/D18-TDAG24-C-0041)) and stored in a common repository managed by the ISCG (hereafter called “ISCG baseline”).

Regarding mapping between the ITU-D study Questions, a few updates were made to adjust with the current priorities and objectives. The current draft matrix of relationships and interactions between study Questions in ITU-D SG1 and ITU-D SG2 is shared in **Annex 3** as a reference to identify possible areas of overlap and opportunities where collaboration could be further strengthened. **Annex 4** further shows how the intra-sector mapping work can help to avoid duplication in the work of the Question.

Regarding mapping between the ITU-D study Questions and the activities of ITU-T study groups, a liaison statement from TSAG (Document [TDAG-20/23](https://www.itu.int/md/D18-TDAG25-C-0023)) was received that reflects the mapping proposals from the ITU-T Sector. However, it was noted that the resulting mapping matrix and tables from TSAG were significantly different and do not offer any change tracks with respect to the ISCG baseline; it is therefore assumed that the ISCG baseline was not used as a basis. Harmonization between these versions is required so that a joint document can be considered by ISCG.

A revised working document for the mapping at the level of study groups and Questions which consolidates the changes proposed from both ITU Sectors can be found in **Annex 5** of this report. These changes are based on the ISCG baseline, and incorporate: 1) updates proposed by the ITU-D SG1 and SG2 rapporteur groups following their meetings in September and October 2019; and 2) differences between the mapping matrix included in the liaison statement from TSAG and the ISCG baseline. It should be noted that some of the differences shown were proposed by TSAG *before* the ISCG baseline was created (see Document [TDAG-19/11](https://www.itu.int/md/D18-TDAG24-C-0011)) and may therefore be superseded. It is proposed that a revised version be shared with ISCG to incorporate the updates from ITU-D rapporteur groups and only the new changes from TSAG received *after* the ISCG baseline was created. See Annex 5 for more information.

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

As introduced in **Section 2.2** of this report, during the last TDAG meeting (Document [TDAG-19/40](https://www.itu.int/md/D18-TDAG24-C-0040)), ITU-D study groups identified several Questions that would require close collaboration with relevant parties in ITU-R to achieve their objectives. In ITU-D SG2, three Questions (Q1/2, Q4/2 and Q7/2) were identified. During the third annual meetings of ITU-D SG2, the rapporteur groups of the above Questions further elaborated the topics for such collaboration, which are listed below. They will follow-up further on their identified topics and liaise with the relevant ITU-R working parties as appropriate.

# Question 1/2 (“Creating smart cities and society: Employing information and communication technologies for sustainable social and economic development”)

When planning for and/or establishing a smart city, there are some issues that require close collaboration between ITU-D SG2 Question 1/2 with ITU-R Sector, including:

* Passive and active mobile sites sharing: sharing is a key principal for efficiency in smart cities. In particular, there is a need to examine different models and case studies for active sharing;
* Existing and future frequency allocations for Wi-Fi: public Wi-Fi and hotspots are being highly adopted in many cities. It is essential to be aware of the current and future potential spectrum allocations for Wi-Fi and their relevant use cases;
* Identification of potential technologies and relevant spectrum allocation for utilities management (e.g., meters connectivity);
* IoT and short range devices: what are the current and potential plans for IoT and SRDs?
* Any specific studies in relation to emerging systems (along with relevant spectrum issues) that could be adopted in smart cities such as connected cars, intelligent transportation, flying stations or drones, etc.

# Question 4/2 (“Assistance to developing countries for implementing conformance and interoperability (C&I) programmes and combating counterfeit ICT equipment and theft of mobile devices”)

One of the main purposes of the implementation of C&I programs is to ensure efficient use of radio spectrum. In this regard and in order to achieve its mandate and objective as set by WTDC‑17, ITU-D Study Question 4/2 needs to collaborate with ITU-R Sector, especially on issues related with spectrum management:

* Legal framework for spectrum management;
* How spectrum is used;
* What spectrum is available for particular purposes (National Table of Frequency Allocation) ;
* Equipment specifications and standards (for each band/purpose);
* Spectrum quality control, interference management & enforcement;
* Proposed changes to regulations and spectrum use;
* Spectrum & apparatus assignment/licensing processes/mechanisms.

# Question 7/2 (“Strategies and policies concerning human exposure to electromagnetic fields”)

When studying strategies and policies concerning human exposure to electromagnetic fields, there are some issues that require close collaboration between ITU-D Study Question 7/2 with ITU-R Sector, including:

* Challenges of spectrum monitoring, taking into account ITU-R Recommendations, reports, handbooks and other outputs from ITU-R;
* What are the impacts of active site-sharing on EMF exposures around transmitting stations?
* Given no change in other parameters (technology, power, altitude; coverage, capacity and QoS), does provision of additional RF spectrum to cellular operators reduce EMF exposure around base stations, and also reduce the number of base stations?
* How to quantify EMF exposure around low and high-power non-beam wireless power transfer devices?

# Work of the ITU Coordination Committee for Terminology (ITU CCT) of interest to ITU-D

ITU CCT was created through Council Resolution 1386 (“ITU Coordination Committee for Terminology (ITU CCT)”) 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 WTDC Resolution 86 (Buenos Aires, 2017) on the “Use in the ITU Telecommunication Development Sector of the languages of the Union on an equal footing” TDAG in 2018 appointed SG1 Vice-Chairman Mr Peter Mbengie (Cameroon) and SG2 Vice-Chairman Ms Ke Wang (People’s Republic of China) to be the ITU-D’s representatives on the ITU Coordination Committee for Terminology (ITU CCT). Plenipotentiary Resolution 154 (Rev. Dubai, 2018) “Use of the six official languages of the Union on an equal footing”, and Council Resolution 1372 (Modified 2019) on the “Council Working Group on Languages (CWG-LANG)” includes text that acknowledges the creation of the ITU CCT and the work it accomplished so far.

In 2019, ITU CCT met once by correspondence on 19 June 2019. The meeting considered liaison statements and contributions with matters concerning terminology and agreed on the updates to the ITU terminology database, especially what is called Part 3 with the Terms, acronyms and definitions. Matters of interest to ITU-D work include the following:

* Given the constant and rapid technical evolution, as well as the divergence of opinions between ITU sectors and study groups, it was decided that a general definition of broadband access that would be suitable to the context of work of all parties involved could not be given for the time being. The term may be defined in a future Recommendation for a specific context. Similarly and for the same reasons, a liaison statement from ITU-D SG1 Q1/1 proposing definitions for different categories of broadband (low-speed, medium-speed and high-speed) was considered but could not be agreed at this stage.
* Several terms and definitions proposed by ITU-R and ITU-T study groups are linked with activities that are related to ITU-D study Questions. In particular, ITU-T SG20 informed that a new Recommendation ITU-T Y.4051 on “Vocabulary for smart cities and communities” was approved in July 2019. Other terms and definitions in the areas of broadcasting, cloud computing and digital finance services were also noted.

Moreover, study groups in different ITU sectors were requested to bring their suggested new terms to the attention of ITU CCT in advance of their approval in recommendations and reports so that they can be discussed for a better harmonization of vocabulary across different study groups and inclusion of globally-harmonized terms in the common ITU Terminology Database. ITU-D in its work must be aware of the ITU terminology database and its usefulness when preparing reports and other deliverables. The next ITU CCT meeting will be announced in due course.

# Collaborative tools

In line with the approach expressed by WTDC-17, the enhancement and further development of [collaborative tools](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/collaborative-tools.aspx) to facilitate collaborators’ electronic participation in the work of the ITU-D study groups, will continue. In addition to interactive remote participation services and the standard webcast in the languages of the respective meeting, mailing lists and collaborative SharePoint sites are made available to participants and management team members at the study group and study Question levels. While [mailing lists](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/collaborative-tools.aspx) allow for the exchange of e-mails amongst experts interested in the topics under study, the [collaborative SharePoint sites](https://extranet.itu.int/itu-d/studygroups/SitePages/Home.aspx) provide a virtual meeting place for participants, with a calendar of the activities of the study group, announcements, and a document exchange area to facilitate the work in between meetings. An area exclusively for the management teams of the study groups, including a dedicated sub-site for each Question, is also available with similar facilities. Study group participants were encouraged to explore the tools and to provide any feedback to the secretariat to assist in their improvement.

# Conclusion and way forward

To continue the work, the next Study Group 2 Rapporteur Group meetings will take place in Geneva from 5 to 16 October 2020 and the final SG2 meeting for the study period from 15 to 19 March 2021 ([2/ADM/2(Rev.3)](https://www.itu.int/md/D18-SG02-ADM-0002/en)). During the joint SG1/SG2 management team meeting on 23 February 2020 and the SG2 Plenary meeting on 28 February 2020, it was proposed that SG1 and SG2 swap the dates for their respective final meetings for the 2018-2021 study period, so that SG2 meeting be held from 15 to 19 March 2021 instead of one week later (22-26 March 2021) as initially planned.

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

The Rapporteur Group meetings have been clustered together to allow rapporteurs, vice-rapporteurs and active participants to attend more than one meeting, share ideas across related topics, convene drafting groups, meet with their Focal Points, BDT staff and the Chairman and Vice-Chairmen of the Study Group in attendance.

Efforts will continue to build synergies between study group topics, workshops and seminars through close coordination and collaboration with other Sectors and General Secretariat, especially with the WSIS Forum. Members are encouraged to review the current draft reports and their chapters and submit their input for the October Rapporteur Group meetings to consider. In addition, proposals for future study topics are also encouraged and very welcome.

Annex 1: Appointed Chairman, Vice-Chairmen, Rapporteurs and Vice-Rapporteurs of ITU-D Study Group 2 Questions for the 2018-2021 period

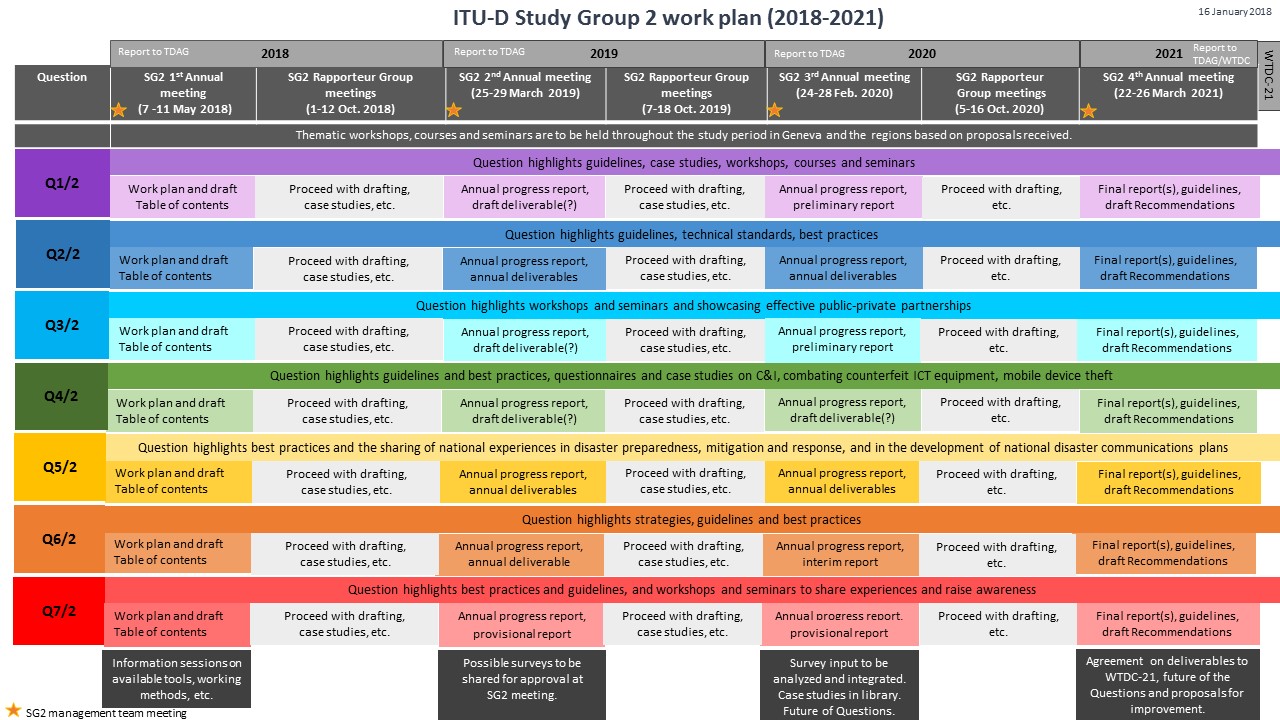
**Table 1: List of chairman and vice-chairmen** (also available at: <https://www.itu.int/net4/ITU-D/CDS/sg/chairmen.asp?lg=1&sp=2018>)

|  |  |
| --- | --- |
|  | ITU-D STUDY GROUP 2 |
| Chairman | Prof. Ahmad Reza SHARAFAT (Islamic Republic of Iran) |
| Vice-Chairmen | Mr Nasser AL MARZOUQI (United Arab Emirates)  *(Stepped down in 2019)* |
| Mr Abdelaziz ALZAROONI (United Arab Emirates) |
| Mr Filipe Miguel ANTUNES BATISTA (Portugal) *(Stepped down in 2019)* |
| Ms Nora Abdalla Hassan BASHER (Sudan) |
| Ms Maria BOLSHAKOVA (Russian Federation) |
| Ms Celina Delgado CASTELLÓN (Nicaragua) |
| Mr Yakov GASS (Russian Federation)  *(Stepped down in 2020)* |
| Mr Ananda Raj KHANAL (Republic of Nepal) |
| Mr Roland Yaw KUDOZIA (Ghana) |
| Mr Tolibjon Oltinovich MIRZAKULOV (Uzbekistan) |
| Ms Alina MODAN (Romania) |
| Mr Henry Chukwudumeme NKEMADU (Nigeria) |
| Ms Ke WANG (China) |
| Mr Dominique WÜRGES (France) |

**Table 2: 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>)

| **ITU-D Question** | **Role** |  | **First name** | **Last name** | **Entity / Country** | **Region** | **Organization** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Question 1/2** | **Co-Rapporteur** | Mr | James | Njeru | Kenya | Africa | Administration |
| **Question 1/2** | **Co-Rapporteur** | Mr | Fadel F | Digham | Egypt | Arab States | Administration |
|  | Vice-Rapporteur | Mr | Seydou | Diarra | Mali | Africa | Administration |
|  | Vice-Rapporteur | Ms | Carrelle | Toho Acclassato | Benin | Africa | Administration |
|  | Vice-Rapporteur | Ms | Aminata Niang | Diagne | Senegal | Africa | Administration |
|  | Vice-Rapporteur | Mr | Turhan | Muluk | United States | Americas | Intel Corporation |
|  | Vice-Rapporteur | Mr | Abdelmadjid | Loumi | Algeria | Arab States | Administration |
|  | Vice-Rapporteur | Mr | Fadi | Morjanh | State of Palestine | Arab States | Administration |
|  | Vice-Rapporteur | Mr | Sanjeev | Banzal | India | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Cai | Chen | China | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Jong-Sung | Hwang | Korea (Rep. of) | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Ataru | Kobayashi | Japan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Yoshihiro | Nakayama | Japan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Evgeny | Bondarenko | Russian Federation | CIS countries | Administration |
|  | Vice-Rapporteur | Ms | Neslihan | Cenk | Turkey | Europe | Türk Telekom |
| **Question 2/2** | **Co-Rapporteur** | Mr | Isao | Nakajima | Japan | Asia & Pacific | Administration |
| **Question 2/2** | **Co-Rapporteur** | Mr | Done-Sik | Yoo | Korea (Rep. of) | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Paul | Kiage | Kenya | Africa | Administration |
|  | Vice-Rapporteur | Ms | Lydia | Ouedraogo/Seneme | Burkina Faso | Africa | Administration |
|  | Vice-Rapporteur | Ms | Fatoumata | Samake | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Babou | Sarr | Senegal | Africa | Administration |
|  | Vice-Rapporteur | Ms | Carrelle | Toho Acclassato | Benin | Africa | Administration |
|  | Vice-Rapporteur | Mr | Gregory | Domond | Haiti | Americas | Administration |
|  | Vice-Rapporteur | Mr | Mayank | Mrinal | India | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Malina | Jordanova | Bulgaria | Europe | Administration |
|  | Vice-Rapporteur | Mr | John | Owuor | Sweden | Europe | Administration |
|  | Vice-Rapporteur | Mr | Leonid | Androuchko |  | World or Multi-Regional | Dominic Foundation |
| **Question 3/2** | **Co-Rapporteur** | Mr | Kwadwo | Burgee | United States | Americas | Administration |
| **Question 3/2** | **Co-Rapporteur** | Mr | Dominique | Wurges | France | Europe | Administration |
|  | Vice-Rapporteur | Mr | Amine Adoum | Bakhit | Chad | Africa | Administration |
|  | Vice-Rapporteur | Mr | Mahamadou | Zarou | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Damnam Kanlanfei | Bagolibe | Togo | Africa | Administration |
|  | Vice-Rapporteur | Mr | Cissé | Kane |  | Africa | African Civil Society on the Information Society |
|  | Vice-Rapporteur | Mr | Jean David | Rodney | Haiti | Americas | Administration |
|  | Vice-Rapporteur | Ms | Jabin | Vahora | United States | Americas | Administration |
|  | Vice-Rapporteur | Mr | Karim | Hasnaou | Algeria | Arab States | Administration |
|  | Vice-Rapporteur | Ms | Sonam | Choki | Bhutan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Miho | Naganuma | Japan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Xinxin | Wan | China | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Jaesuk | Yun | Korea (Rep. of) | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Ms | Maria | Bolshakova | Russian Federation | CIS countries | Administration |
| **Question 4/2** | **Rapporteur** | Mr | Cheikh Tidjani | Oudaa | Mauritania | Arab States | Administration |
|  | Vice-Rapporteur | Mr | Ahmadou Dit | Adi Cisse | Mali | Africa | Administration |
|  | Vice-Rapporteur | Mr | Joseph | Onaya | Kenya | Africa | Administration |
|  | Vice-Rapporteur | Mr | Serigne Abdou | Lahatt Sylla | Senegal | Africa | Administration |
|  | Vice-Rapporteur | Mr | Brillant Harivony | Rakotoratsimanjefy | Madagascar | Africa | Administration |
|  | Vice-Rapporteur | Ms | Amel | Khiar | Algeria | Arab States | Administration |
| **Question 5/2** | **Co-Rapporteur** | Mr | Joseph | Burton | United States | Americas | Administration |
| **Question 5/2** | **Co-Rapporteur** | Mr | Sanjeev | Banzal | India | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Abdulkarim Ayopo | Oloyede | Nigeria | Africa | Administration |
|  | Vice-Rapporteur | Mr | Parag | Agrawal | India | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Hideo | Imanaka | Japan | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Joses | Jean Baptiste | Haiti | Americas | Administration |
| **Question 6/2** | **Co-Rapporteur** | Mr | Cissé | Kane |  | Africa | African Civil Society on the Information Society |
| **Question 6/2** | **Co-Rapporteur** | Ms | Aprajita | Sharrma | India | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Richard | Anago | Burkina Faso | Africa | Administration |
|  | Vice-Rapporteur | Ms | Amandine Kalima | Katanti | Dem. Rep. of the Congo | Africa | Administration |
|  | Vice-Rapporteur | Mr | Joses | Jean Baptiste | Haiti | Americas | Administration |
|  | Vice-Rapporteur | Mr | Issa | Camara | Mali | Africa | Administration |
| **Question 7/2** | **Co-Rapporteur** | Mr | Tongning | Wu | China | Asia & Pacific | Administration |
| **Question 7/2** | **Co-Rapporteur** | Mr | Haim | Mazar | France | Europe | ATDI |
|  | Vice-Rapporteur | Mr | Enock | Gothias | Central African Rep. | Africa | Administration |
|  | Vice-Rapporteur | Ms | Aminata Niang | Diagne | Senegal | Africa | Administration |
|  | Vice-Rapporteur | Mr | R.M. | Chaturvedi | India | Asia & Pacific | Administration |
|  | Vice-Rapporteur | Mr | Gregory | Domond | Haiti | Americas | Administration |

Annex 2: ITU-D Study Group 2 work plan

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**Annex 3: Intra-sector mapping between ITU-D SG1 and SG2 Questions**

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

**Table 3: Matrix of relationships between study Questions in ITU-D SG1 and SG2**

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

**Annex 4: Intra-sector mapping between ITU-D SG1 and SG2 Questions (practical example from Q7/1 of how the mapping can assist)**

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

Table 4: Example for possible collaboration between ITU-D SG1 Study Question 7/1 and other pertinent ITU-D study Questions in study period 2018-2021. Detailed information can be found in Document [2/262](https://www.itu.int/md/D18-SG02-C-0262)

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

**Annex 5: Mapping between ITU-D and ITU-T study Questions**

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

**Table 5: Matrix of relationships between ITU-D study Questions and ITU-T study Questions**

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

**Annex 6: Templates for capturing possible linkages with ITU work on statistics and related requirements**

**Table 6: Example of coordination of the activities of EGH and EGTI with the work of the ITU-D SGs**

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

**Table 7: Associating the terms of references of ITU-D Study Questions with indicators included in World Telecommunication/ICT Indicators Database 2019** (not including new possible proposed indicators)

|  |  |
| --- | --- |
| **Study Group 2** | |
| **1/2** | * Proportion of households with a mobile cellular telephone * Percentage of the population covered by at least a 3G mobile network * M2M mobile-network subscriptions |
| **2/2** | * Internet users * Percentage of the population covered by a mobile-cellular network |
| **3/2** | * - |
| **4/2** | * - |
| **5/2** | * Estimated proportion of households with Internet access at home * Internet users * Mobile-cellular subscriptions per 100 inhabitants * Percentage of the population covered by a mobile-cellular network |
| **6/2** | * - |
| **7/2** | * Proportion of households with a mobile cellular telephone * Estimated proportion of households with a computer * Proportion of individuals using a mobile cellular telephone * Mobile-cellular subscriptions per 100 inhabitants |

**Table 8: Template for capturing possible linkages between ITU-D study Questions and ITU’s work on statistics**

**Example for ITU-D SG1 Study Question 7/1**

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

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

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

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

*The annual World Telecommunication/ICT Regulatory Survey of the Telecommunication Development Bureau (BDT) has a question on accessibility “7. Current regulatory Issues 7.1 Accessible ICTs”. ITU-D SG1 Study Question 7/1 proposes to move “Accessible ICTs” from “7. Current Regulatory Issues” to “4. Regulatory Issues and Processes” and expand it with additional questions in line with other sub points:*

**4.n Accessible ICTs**

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

□ Yes

□ No

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

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

□ Yes

□ No

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

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

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

□ *Mobile communication accessibility;*

□ *Television/video programming accessibility;*

□ *Web accessibility;*

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

□ *Public procurement for accessible ICTs*

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

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

□ Yes

□ No

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

*Name of the entity*

*Area of the responsibility/activity*

*Entity’s website*

*Name of the focal point*

*Email of the focal point*

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

□ Yes

□ No

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

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

1. ITU-D SG1 Study Question 7/1 has comments/suggestions/proposals/questions regarding following areas of EGTI/EGH activities or WTID (reference documents [1/273](https://www.itu.int/md/d18-sg01-c-0273), [1/274](https://www.itu.int/md/d18-sg01-c-0274), [1/322](https://www.itu.int/md/D18-SG01-c-0322), [1/356](https://www.itu.int/md/D18-SG01-c-0356))[[5]](#footnote-6)

a)***Input:*** *As there are no current activities in EGTI/EGH on ICT accessibility indicators Question 7/1 would like to inform EGTI/EGH on its wide expertise in terms of ICT accessibility, and would like to inform that several contributions on national experience in ICT accessibility indicators were received (docs* [*255*](https://www.itu.int/md/D18-SG01.RGQ-C-0255/en)*,* [*80*](https://www.itu.int/md/D18-SG01.RGQ-C-0080/en) *and* [*91*](https://www.itu.int/md/D18-SG01.RGQ-C-0091/en) *). If needed, ITU-D SG1 Study Question 7/1 can provide relevant assistance on terminology in order to help Member-States to formulate questions in surveys/questionaries’ correctly taking into account the sensitivity of accessibility issues.*

b)

c)

…

1. In accordance with its ToR, as decided by WTDC-17, ITU-D SG1 Study Question 7/1 asks EGTI/EGH to assist in providing the relevant statistical information on the following areas[[6]](#footnote-7)

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

1. The SG2 2020 photos are available at: <https://www.flickr.com/photos/itupictures/albums/72157713236047217>. [↑](#footnote-ref-2)
2. The BDT Director’s speech may be found at this hyperlink: <https://www.itu.int/en/ITU-D/bdt-director/Pages/Speeches.aspx?ItemID=236>. [↑](#footnote-ref-3)
3. The programme and presentations of the session can be found at the following link: <https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/IoT-for-development-feb20.aspx>. [↑](#footnote-ref-4)
4. Rapporteurs can tag possible areas of mutual interest in accordance with the proposed table in document 1/322. Insert an “X” if you would like to ask EGTI/EGH for additional information/indicators, or a “V” if you would like to share relevant experience/expertise from your perspective with EGTI/EGH. [↑](#footnote-ref-5)
5. Rapporteurs are invited to share their thoughts/concerns/suggestions with regard to EGTI/EGH activities. [↑](#footnote-ref-6)
6. If not covered in 1.b [↑](#footnote-ref-7)