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| **电信发展顾问组（TDAG）**  **第25次会议，2020年6月2-5日，日内瓦** | C:\Users\comas\AppData\Local\Temp\Rar$DRa0.735\jpg\ITU official logo_blue_RGB.jpg |
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|  | **文件****：TDAG-20/12-C** |
|  | **2020年3月26日** |
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| ITU-D第1研究组主席 | |
| ITU-D第1研究组 – 活动与进展 | |
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| 摘要：  本报告向电信发展顾问组（TDAG）介绍了ITU-D第1研究组的现状。它提供了2020年2月17至21日召开的2018-2021年研究期第1研究组第三次会议以及2019年9月23日至10月4日召开的第二次报告人组集中会议的一些要点。  所有第1研究组七个课题在形成世界电信发展大会（WTDC）预期输出成果方面进展顺利，在制定输出成果报告草案方面取得了重大进展。在2020年2月的会议上，所有课题均审查了最新的案文草案，以便在下一次报告人组会议上进一步阐述和定稿。最近一次会议的一个亮点是发布了与四个ITU-D第1研究组课题工作相关的三项年度交付成果：   * 第2/1号课题年度交付成果“对包括新业务和应用在内的数字过渡成本结构的考虑”； * 第3/1号课题和4/1号课题的联合交付成果“OTT（过顶业务）对各国电信/ICT市场的经济影响”； * 第5/1号课题年度交付成果“农村及偏远地区的宽带发展和连接解决方案”。   2021年3月第1和第2研究组会议日期的拟议变更（第2研究组在第1研究组之前召开会议）已提交电信发展顾问组审议。  需采取行动：  请TDAG注意本文件并酌情提供指导。  参考文件：  WTDC第2号决议（2017年，布宜诺斯艾利斯，修订版）、第1号决议（2017年，布宜诺斯艾利斯，修订版） | |

**1 要点**

2018-2021年研究期第1研究组（SG1）**第三次会议**（2020年2月17至21日）的重点包括：

– 49个成员国的132位代表参会；

– 134份文稿，包括报告草案和报告章节案文，以推进工作；

– 收到14份输入联络声明，6份输出联络声明得到同意并由课题发出；一份由第1研究组全体会议与第2研究组联合输出，并将在晚些时候发出；

– 七个第1研究组课题的课题输出成果报告草案均得到分享；

– 在第1研究组主席的帮助下发布了与四个ITU-D第1研究组课题有关的三份年度交付成果，目的是向公众通报其工作情况并鼓励大家进一步提交文稿；

• 第2/1号课题年度交付成果 – 对包括新业务和应用在内的数字过渡成本结构的考虑；

• 第3/1和4/1号课题联合年度交付成果 – OTT（过顶业务）对各国电信/ICT市场的经济影响；

• 第5/1号课题年度交付成果 – 农村及偏远地区的宽带发展和连接解决方案。

– 2020年2月17日举行了关于包容性数字连接的创新融资机制和商业模式讨论，以便使各项研究课题在工作进展中得到启发；

– 就ITU-D研究课题与指标专家组（ICT家庭指标专家组（EGH）和电信/ICT指标专家组（EGTI））活动之间的联系进行了讨论。第1和第2研究组联合向EGH和EGTI发出的联络声明将进一步加强各组之间的合作；

– 开展具体协调，以获取与WTDC第9号决议（2017年，布宜诺斯艾利斯，修订版）相关的课题主题，这些主题可通过研究组主席使用新模板报告给TDAG（电信发展顾问组），供电信发展局主任考虑；

– 就未来研究主题分享了初步方式和想法。此类建议考虑了当前研究课题的未来和可能的新课题。2020年报告人组会议将继续进行讨论，并为此征求文稿；

– 进行了进一步推进与以下方面相关的对照工作的讨论：1) ITU-D第1与第2研究组课题之间的部门内对照；2) ITU-D第1和第2研究组课题与ITU-R工作组活动之间的对照；3) ITU-D第1和第2研究组课题与ITU-T研究组工作项目和课题之间的对照。然而，会上有人指出，ITU-D研究组输出的、通过2019年一份联合联络声明与TDAG分享并与共同关心问题跨部门协调组（ISCG）进一步分享的资料，在ITU-T研究组和TSAG（电信标准化顾问组）继续开展工作时未被用作基本参考内容。有人指出，这一问题必须在各部门和秘书处之间的工作中得到解决；在研究组和课题层面进行对照，以便用于各秘书处之间开展此项协调工作的修订工作文件可查阅**附件6**；

– 巴西提议于2020年7月1日至3日在巴西利亚（巴西）举办主题为“数字消费趋势”的第6/1号课题相关讲习班，该提案获得批准。该讲习班还将有助于最终确定关于“不需要的呼叫 – 挑战和战略概述”的第6/1号课题年度交付成果草案；

– 在2020年WSIS论坛期间举行关于ITU-D研究组工作的专门会议及研究课题相关专题会议的讨论得到进一步推进。

**第1研究组第二次报告人组集中会议**（2019年9月23日至10月4日）的要点包括：

– 来自44个成员国和巴勒斯坦的123位与会者参加了报告人组会议和两周会议期间举办的相关会议/讲习班；

– 为推进工作提交了139份文稿并起草了工作成果；

– 收到24份联络声明并在会后发出14份联络声明；

– 会议完善了第1研究组课题工作成果大纲，并继续起草和交流有关报告、导则和案例研究的章节；

– 围绕有关第1研究组第1/1、3/1、4/1、5/1和7/1号课题举办了4场专题会议/讲习班和能力建设会议，以便提高认识和扩展正在研究的几个课题的知识领域。在第2研究组报告人组会议期间，还组织了SG1/SG2关于所有研究课题的人工智能联合演示会；

– 为推进ITU-D两个研究组之间以及与其他部门研究组的协调并加强合作，会议期间就三套对照表开展了工作。

– 各组进一步讨论了探索与WSIS平台协同增效的方式。

**2 ITU-D第1研究组工作概况**

ITU-D第1研究组（SG1）审议有关为电信/ICT发展创造有利环境的问题。在此情况下，第1研究组负责七个实质性议题，其中包括国家电信/ICT政策、使各国在最大程度上受益于电信/ICT推动力的技术和战略发展、农村和边远地区对电信/ICT的获取以及确定与国家电信/ICT相关的服务成本的经济政策和方法。第1研究组还审议与数字广播过渡和采用以及新业务实施、消费者保护和残疾人和其他具有特殊需求人群对电信/ICT服务的无障碍获取等事宜。

**2.1 2019年第1研究组报告人组集中会议（2019年9月23日至10月4日）**

2019年第1研究组报告人组会议进一步制定了第1研究组课题工作成果大纲，并继续起草和交流有关报告、导则和案例研究的章节。会议收到了139份为推进工作并取得工作成果而提交的文稿，其中包括收到的24份联络声明。会后发出了14份联络声明。

在会议期间，就与各课题相关的主题举行了四次专门会议和能力建设会议，以提高认识，扩展正在研究的几个课题项目的知识领域，并为编写秘书长研究组课题的输出成果报告做出贡献。讲习班的输出成果也旨在作为2020年制定新的年度可交付成果和导则草案的基础。

结合第5/1号课题会议举行了一次关于[农村地区宽带发展](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/session-Q5-1-sept19.aspx)的专题会议，一次与第1/1号课题工作有关的[宽带部署和宽带接入技术项目执行情况](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/session-Q1-1-sept19.aspx)的会议，以及第7/1号课题会议期间一次关于信息通信技术无障碍基础知识的科普会议。为落实向2019年第1研究组会议提出的建议，举行了第3/1号课题和第4/1号课题有关[OTT对国家电信/ICT市场的经济影响](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/joint-session-Q3-1-Q4-1_oct19.aspx)的联合会议。

举行了一场第1和第2研究组[人工智能和新兴技术演示会](http://itu.int/go/L2IQ)，允许参与者了解更多关于人工智能（AI）的真实情况，以及需要知道的机遇和挑战。来自学术界、私营部门和政府机构的培训师和讲演人分享了他们的见解，同时讨论强调了一些仍有待解决的知识产权、道德和问责问题。

继ITU-D第1和第2研究组主席就将ITU-D课题与ITU-D课题、ITU-D课题与ITU-T课题、ITU-D课题与ITU-R课题进行**对照比较**以支持协作事宜发出联络函之后，对照表格方面的工作在会议期间有了进一步发展（[1/265](https://www.itu.int/md/D18-SG01-C-0265/)和[TDAG-19/41](https://www.itu.int/md/D18-TDAG24-C-0041)号文件）。跨部门协调组（ISCG）一致认为，所有与跨部门合作有关的对照表都应作为一个动态文件保存在一个共同的资料库中。会后将通过ISCG和国际电联三个局的代表相互开展协调的方式保持对照表格的更新。

会议期间，各小组讨论了探索**与WSIS平台协同增效**的方式。[SG1RGQ/258](https://www.itu.int/md/D18-SG01.rgq-C-0258)号文件通报了ITU-D研究组和WSIS平台之间的合作可以带来的好处和机遇（联系WSIS清点工作数据库中项目的作者，供ITU-D研究组考虑；WSIS参与者对ITU-D研究组的可能参与和贡献等）。报告人组还研究了在2020年WSIS论坛期间组织专题讲习班，以吸引文稿和输入文件，同时宣传正在开展的工作。在即将举行的WSIS论坛期间，就专门会议进行了讨论，重点关注ITU-D研究组的工作，以增加与WSIS平台合作的机会。

**2.2 本研究期内第1研究组（SG1）第三次会议（2020年2月17至21日）**

第1研究组第三次会议于2020年2月17-21日举行，来自49个国家的132名代表出席会议[[1]](#footnote-1)。十二名被任命的第1研究组副主席中，除三名副主席外，其余均与电信发展局主任多琳•伯格丹-马丁[[2]](#footnote-2)和第1研究组主席Fleur Regina Assoumou Bessou女士（科特迪瓦共和国）一道出席了会议：Peter Ngwan Mbengie先生（喀麦隆）、Amah Vinyo Capo先生（多哥）、Roberto Mitsuake Hirayama先生（巴西）、Víctor Antonio Martínez Sánchez先生（巴拉圭）、Ahmed Abdel Aziz Gad先生（埃及）、Sameera Belal Momen Mohammad女士（科威特）、Yasuhiko Kawasumi先生（日本）、Vadym Kaptur先生（乌克兰）和Anastasia Sergeyevna Konukhova女士（俄罗斯联邦—2019年由TDAG任命）。本报告**附件1**介绍第1研究组管理班子成员。

管理班子一起指导第1研究组审议了为推进工作而提交的134份文稿，其中包括国际电联其他两个部门的14份联络声明。各课题商定并发出了6份联络声明，第1研究组全体会议与第2研究组联合发出的一份联络函，将在晚些时候发出。

[1/ADM/24号文件 + 附件](https://www.itu.int/md/D18-SG01-ADM-0024/)载有按区域汇总的参会情况、按课题分列的文稿、与会补贴和其他数据的统计数字。

电信发展局主任和第1研究组主席鼓励成员们继续向研究组派遣专家，分享他们的经验、教训和具体案例研究，以便为集体知识积累做出贡献。电信发展局主任指出，从经验、挑战和创新应用中得出的结论有助于支持知情决策。构成案例研究的丰富知识可进一步纳入项目、区域性举措、报告、手册和研究中。

在第1研究组主席主持下发布的**三项ITU-D第1研究组年度交付成果**涉及四个ITU-D第1研究组课题，旨在向公众通报工作情况，并激励和鼓励各方进一步提供文稿。

– 第2/1号课题年度交付成果“对包括新业务和应用在内的数字过渡成本结构的考虑”（[305号文件 + 附件中的介绍](https://www.itu.int/md/D18-SG01-C-0305/)）；

– 第3/1和4/1号课题联合年度交付成果 “ OTT（过顶业务）对各国电信/ICT市场的经济影响”（[1/339号文件 + 附件中的介绍](https://www.itu.int/md/D18-SG01-C-0339/)）；

– 第5/1号课题年度交付成果“农村及偏远地区的宽带发展和连接解决方案”（[303号文件 + 附件中的介绍](https://www.itu.int/md/D18-SG01-C-0303/)）。

在第1研究组会议的第一天，报告人介绍了三个年度交付成果中分享的这些组的主要工作成果，以鼓励就该议题进行辩论。此外，在整个一周内，提交了额外年度交付成果的草案，以供进一步完善。

发布年度交付成果的目的是向国际电联成员及时提供这对研究组参与者和其他人应了解的重要问题的信息，向公众通报正在开展的工作，并在相关研究课题在本研究期间继续开展工作的同时，激励和鼓励针对这些专题进一步提交文稿。这些报告与2019年的年度交付成果一样，将分别在第1和第2研究组主席的主持下，在ITU-D研究组网站题为“正在开展的工作”（[正在开展的工作网站](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/OngoingWork.aspx)）的章节下公布。在WTDC-17的鼓励下，研究组提交的年度交付成果在发展部门是新的，尚未在第1号决议（ITU-D《议事规则》）中详细涵盖。此外，研究课题的最终输出报告可根据其具体职责进一步阐述年度交付成果中提出的概念和事项。

2020年2月17日，在第1研究组会议开始时，举行了**一次关于包容性数字连通创新融资机制和商业模式的讨论**，以探讨能够实现创新融资机制和商业模式的具体方法和概念，从而确保数字连接的可持续投资和融资。由于该讨论的想法源于2019年报告人组会议期间作为一个跨行业主题提出的请求和建议，希望这些介绍和讨论将在所有研究课题的工作进展过程中发挥启迪作用（[网站](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/meetings/financing-connectivity-feb20.aspx)）。

在这一周的会议中，**课题输出报告草案**的编写工作取得了重大进展。所有课题都起草了文本草案，各组的目标是制定接近最终版本的报告，供2020年9/10月报告人组会议审议。

TDAG在2019年要求向研究组提供相关的ICT统计数据。根据这一请求，为了促进**从事指标工作的专家组与ITU-D研究组/报告人组之间更密切的合作和交流**，研究组讨论了下一步要采取的措施，以回应ICT家庭指标专家组（EGH）（[1/274](https://www.itu.int/md/d18-sg01-c-0274)号文件）和电信/ICT指标专家组（EGTI）（[1/273](https://www.itu.int/md/d18-sg01-c-0273)号文件）的两份联络函以及成员的相关文稿。

通过讨论，要求报告人组在其组内审议可与专家组分享的若干关联。请报告人组：1)审议对照示例草案并做出必要的修改，告知他们知道哪些指标和数据已经在其他调查中获得和/或已经用于他们的工作（如通过监管问卷调查收集的数据），以及2)他们对当前研究和未来可能工作在数据需求方面的要求。**附件7表1、2和3**分享了关于这种情况的初步建议。第1研究组和第2研究组联合发出答复联络函将进一步加强两个组之间的合作。

2019年会议期间，以下课题尤其被认为包含有助于**落实WTDC第9号决议（2017年，布宜诺斯艾利斯，修订版）**的频谱需求信息：第1/1号课题（宽带）、第2/1号课题（广播）、第5/1号课题（农村和偏远地区的信息通信技术）和第7/1号课题（无障碍获取）。在2020年第1研究组会议期间进行了具体协调，以获取感兴趣的课题主题。可以使用新的模板，通过研究组主席向TDAG报告，供电信发展局主任考虑（见**附件3表1和表2**）。**附件3表3**中共享了为第2/1号课题收集、用于综合表格的信息的完整示例。鼓励其他课题亦如此办理。

关于**未来研究主题**的初步方法和想法。这些建议考虑了当前研究课题的未来和可能的新主题。会上有人表示，未来的课题应尽可能独特，以避免重叠，应考虑未来的发展和需求，不应局限于课题的当前结构。2020年报告人组会议将继续讨论，并为此征集文稿。

按照年度会议的惯例，**其他两个部门**的代表分享了他们工作中的最新项目，参加ITU-D研究组会议的成员可能对此感兴趣。电信标准化局分享了标准化工作中的新问题和筹备WTSA-20的最新情况（[1/395号文件+附件](https://www.itu.int/md/D18-SG01-C-0395)），无线电通信局分享了有关WRC-19和RA-19成果的最新情况（[1/396号文件 +附件（修订1）](https://www.itu.int/md/D18-SG01-C-0396)）。根据在介绍电信标准化局工作过程中提出的一般性信息要求，还额外介绍了电信标准化局在基于人工智能的对照解决方案方面正在开展的探索性工作概况。该解决方案旨在采用语义相关性，将ITU-T工作（ITU-T建议书、技术规范等）与选定的可持续发展目标对照起来（[1/TD/25](https://www.itu.int/md/D18-SG01-200321-TD-0025/)号文件）。

进行了进一步推进与以下方面相关的**对照工作**的讨论：1) ITU-D第1与第2研究组课题之间的部门内对照；2) ITU-D第1和第2研究组课题与ITU-R工作组活动之间的对照；3) ITU-D第1和第2研究组课题与ITU-T研究组工作项目和课题之间的对照。然而，会上有人指出，ITU-D研究组输出的、通过2019年一份联合联络声明与TDAG分享并与共同关心问题跨部门协调组（ISCG）进一步分享的资料，在ITU-T研究组和TSAG（电信标准化顾问组）继续开展工作时未被用作基本参考内容。有人指出，这一问题必须在各部门和秘书处之间的工作中得到解决。

巴西提议于2020年7月1日至3日在巴西利亚（巴西）举办主题为“数字消费趋势”的第6/1号课题相关讲习班，该提案获得批准。该讲习班还将有助于最终确定关于“不需要的呼叫 – 挑战和战略概述”的第6/1号课题年度交付成果草案。

在2020年WSIS论坛期间举行关于ITU-D研究组工作的专门会议及研究课题相关专题会议的讨论得到进一步推进。

**2.3 报告人组会议的报告**

自电信发展顾问组（TDAG）前一次会议以来，在2019和2020年召开的每次报告人组会议的报告链接如下：

– 第1/1号课题见：[（2019年9月）](https://www.itu.int/md/D18-SG01.rgq-R-0008)[（2020年2月）](https://www.itu.int/md/D18-SG01-R-0017)

– 第2/1号课题见：[（2019年9月）](https://www.itu.int/md/D18-SG01.rgq-R-0009)[（2020年2月）](https://www.itu.int/md/D18-SG01-R-0018)

– 第3/1号课题见：[（2019年9月）](https://www.itu.int/md/D18-SG01.rgq-R-0010)[（2020年2月）](https://www.itu.int/md/D18-SG01-R-0019)

– 第4/1号课题见：[（2019年10月）](https://www.itu.int/md/D18-SG01.rgq-R-0011)[（2020年2月）](https://www.itu.int/md/D18-SG01-R-0020)

– 第5/1号课题见：[（2019年9月）](https://www.itu.int/md/D18-SG01.rgq-R-0012)[（2020年2月）](https://www.itu.int/md/D18-SG01-R-0021)

– 第6/1号课题见：[（2019年9月）](https://www.itu.int/md/D18-SG01.rgq-R-0013)[（2020年2月）](https://www.itu.int/md/D18-SG01-R-0022)

– 第7/1号课题见：[（2019年10月）](https://www.itu.int/md/D18-SG01.rgq-R-0014)[（2020年2月）](https://www.itu.int/md/D18-SG01-R-0022)

**3 第1研究组的战略和工作计划**

为使第1研究组达到2018-2021年研究期的预期成果，第1研究组根据第2号决议（2017年，布宜诺斯艾利斯，修订版） – “成立研究组”确定的工作范围开展工作。2018年第一次会议批准了第1研究组四年期工作计划（见本报告**附件2**）。在本研究期第三次会议上，第1研究组主席分享了她对第1研究组活动和目标的愿景，即“3I愿景”，其内容包括：1) 增强利益攸关方在工作过程中的互动性（**Interaction**）（提交文稿、经验共享等）；2) 提升工作方法的创新性（**Innovation**）；和3) 促进成员国在落实（**Implementation**）ITU-D研究组成果方面取得更优异的成绩。

在过去一年里，ITU-D研究组吸引了创纪录数量的文稿，案例研究和经验教训不仅有助于课题工作的持续开展，而且已可被正计划在这些领域和/或正在这些领域开展工作的国家所利用。他们还探讨了如何通过与研究组和报告人会议同时举行的专题研讨会和演示会，就与成员和成员以外的问题开展建设性讨论，以丰富课题的工作内容。

**4 ITU-D第2研究组与其他部门就共同感兴趣的事宜开展协作和协调**

**4.1 ITU-D研究组各课题之间以及ITU-D研究组与其他部门之间的工作对照**

会议期间进行了进一步推进与以下方面相关的对照工作的讨论：1) ITU-D第1与第2研究组课题之间的部门内对照；2) ITU-D第1和第2研究组课题与ITU-R工作组活动之间的对照；3) ITU-D第1和第2研究组课题与ITU-T研究组工作项目和课题之间的对照。[1/265](https://www.itu.int/md/D18-SG01-c-0265)号文件分享了2019年会议后ITU-D第1与第2研究组主席就将ITU-D课题与ITU-D课题、ITU-D课题与ITU-T课题、ITU-D课题与ITU-R课题进行对照比较向TDAG发送联络函的信息。达成的共识是，TDAG将通过跨部门协调组（ISCG）与其他部门分享这些对照信息，以促进共同的对照工作。

目前ITU-D第1研究组和第2研究组的研究课题之间的关系和互动矩阵草案述于**附件4**中，作为确定可能重叠的领域和可以有机会进一步加强合作的参考。**附件5**进一步显示了部门内对照工作如何有助于避免课题工作发生重复。

2020年2月第1研究组和第2研究组会议收到了电信标准化顾问组（TSAG）提交的[1/269号文件 + 附件](https://www.itu.int/md/D18-SG01-C-0269)中的一份联络声明，其中载有TSAG关于部门间协调/对照的反馈意见。然而，会上有人指出，ITU-D研究组输出的、通过2019年一份联合联络声明与TDAG分享并与共同关心问题跨部门协调组（ISCG）进一步分享的资料，在ITU-T研究组和TSAG（电信标准化顾问组）继续开展工作时未被用作基本参考内容。有人指出，这一问题必须在各部门和秘书处之间的工作中得到解决。

本报告**附件6**载有ITU-D和ITU-T课题之间矩阵关系的新版本，该版本综合了国际电联两个部门提议的变更。这些变化基于ISCG基准，并纳入了：1)ITU-D 第1研究组和第2研究组报告人组在2019年9月和10月会议后提出的更新；以及2)TSAG的联络声明中包含的对照矩阵与ISCG基准之间的差异。应当指出，有些差异是TSAG在ISCG基准建立*之前*提出的，因此可能会被取代。**附件6**载有在研究组和课题层面进行对照的修订工作文件，将用于各秘书处之间开展这种协调。建议与ISCG分享该修订版本，以纳入ITU-D报告人组的更新，并仅纳入ISCG基准建立后TSAG提出的新变更。

**4.2 ITU-D研究组为落实WTDC第9号决议（2017年，布宜诺斯艾利斯，修订版）的参与和贡献**

会议期间，尤其是2018年9月召开的报告人组会议期间，人们就WTDC第9号决议（2017年，布宜诺斯艾利斯，修订版）的实施状况以及WTDC-17将其从ITU-D研究组中删除的情况提出疑问并表示忧虑。由于频谱管理问题涉及若干第1研究组研究课题，人们寻求就未来落实步骤以及研究组如何解决这些问题做出澄清。成员担心的是，WTDC-17之后未取得任何进展。有关解决电信发展局落实决议的复杂问题的方式已提交了报告。该方式要求无线电通信局（BR）予以紧密协作。会议注意到，随后将进行信息交流。有关ITU-D研究组可能就该项工作提出文稿的问题，有人建议各报告人及指定的副报告人在会后收集所有频谱相关问题，特别是所提出的要求，并与相关主席进行定期交流。该问题有待进一步讨论。在2019年TDAG会议上，与会者进一步强调了ITU-D研究组应提交文稿，以确定第9号决议所述发展中国家的频谱需求。为此，第1研究组的一名副主席（巴西的Roberto Hirayama先生）和第2研究组的一名副主席（苏丹的Nora Basher女士）将与每个研究课题的联系人协调WTDC第9号决议的问题。此外，在每次研究组年度会议上，在第9号决议电信发展局牵头人的支持下，这些副主席将向ITU-D 第1和第2研究组主席提交一份关于WTDC第9号决议问题的汇编审查结果摘要，由他们转交给电信发展局主任。然后，电信发展局主任可以在适当的时候与无线电通信局主任进行协调。TDAG在2019年指出，研究组主席提供的摘要也可以作为对TDAG落实第9号决议相关活动所需文稿的基础。

在2020年第1研究组会议期间进行了具体协调，以获取相关的感兴趣的课题主题。可以使用新的模板，通过研究组主席向TDAG报告，供电信发展局主任考虑（见**附件3**）。亦可在此查看为第2/1号课题收集的完整信息示例。鼓励其他课题亦如此办理。

**5 ITU-D感兴趣的国际电联术语协调委员会（ITU CCT）的工作**

根据WTDC有关“电信发展部门平等使用国际电联各种语文”的第86号决议（2017年，布宜诺斯艾利斯），2018年TDAG任命第1研究组副主席Peter Mbengie先生（喀麦隆）和第2研究组副主席王珂女士（中华人民共合作）担任ITU-D参加国际电联词汇协调委员会（ITU CCT）的代表。Mbengie先生在向第1研究组全体会议提交的报告中强调了ITU-D可能感兴趣的、2019年6月17日会议的一些主要方面。有两个定义尤为突出，一个是ITU-D提出的高速宽带定义要求，另一个是ITU-T第12和13研究组提出的宽带接入定义，以及与智慧社会、广播、数字金融服务等相关的其他定义。国际电联术语协调委员会指出，由于术语涉及不同类型宽带的分类，而且技术发展迅速，因此此时提供具体数值是不可取的。

此外，国际电联术语协调委员会要求各部门相关组在建议书和报告获得批准之前，向国际电联术语协调委员会提出建议的新术语，以便进行讨论。ITU-D在制定报告和其他交付成果时必须意识到国际电联的术语数据库及其有用性。Mbengie先生进一步指出，关于“社区网络”定义的讨论，因为这涉及到ITU-D具体研究课题内的工作，因此可以考虑直接或通过国际电联术语协调委员会征求其他部门的意见和想法。最后，必须指出的是，2019年无线电通信全会修订了关于“国际电联无线电通信部门在同等地位上使用国际电联六种正式语文的词汇协调问题”的ITU-R第36-5号决议。由于ITU-R第36-5号决议现已用2018年全权代表大会的文本进行了更新（除其他更新外），因此在ITU-D筹备WTDC-21时，该决议可能也是有用的参考。

**6 协作手段**

根据WTDC-17提出的方法，为方便同行以电子方式参与ITU-D的研究组的工作，将继续加强并进一步开发[协作工具](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/collaborative-tools.aspx)。[电子邮件名录](https://www.itu.int/en/ITU-D/Study-Groups/2018-2021/Pages/collaborative-tools.aspx)可使对研究议题感兴趣的专家通过电子邮件开展交流，协作式[SharePoint网址](https://extranet.itu.int/itu-d/studygroups/SitePages/Home.aspx)为与会者提供了虚拟会议厅，显示研究组活动的日历安排、通知和方便各场会议之间工作的文件交流区。每一课题的专用网站以及研究组团队的专用区亦可使用。获得这些服务需要一个激活的TIES账号。鼓励研究组与会者尝试这些工具并向秘书处做出反馈以利于进一步完善。

**7 结论和前景**

为继续开展工作， 2020年报告人组会议将于9月21日至10月2日在日内瓦召开，第1研究组的最后一次会议将于2021年3月22-26日召开（[1/ADM/2(Rev.3)](https://www.itu.int/md/D18-SG01-ADM-0002/en)号文件）。在2020年2月23日举行的第1/第2研究组管理班子联合会议上，有人提议，2018-2021年研究期内ITU-D第1研究组最后一次会议的日期与第2研究组的日期交换，即于2021年3月22日至26日举行，而不是最初计划的提前一周（2021年3月15日至19日）举行。

2021年第1和第2研究组会期的拟议变更（第2研究组会议早于第1研究组）特提请TDAG审议。

此外，报告人组会议集中召开，以便报告人、副报告人和积极的与会者参加一个以上的会议，在相关议题上分享意见，组成起草小组，与其牵头人、电信发展局职员和出席会议的主席与副主席会面。

鼓励成员审阅目前的报告草稿及其章节，并提出意见，供9/10月报告人组会议审议。此外，也鼓励和欢迎对未来的研究议题提出建议。

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

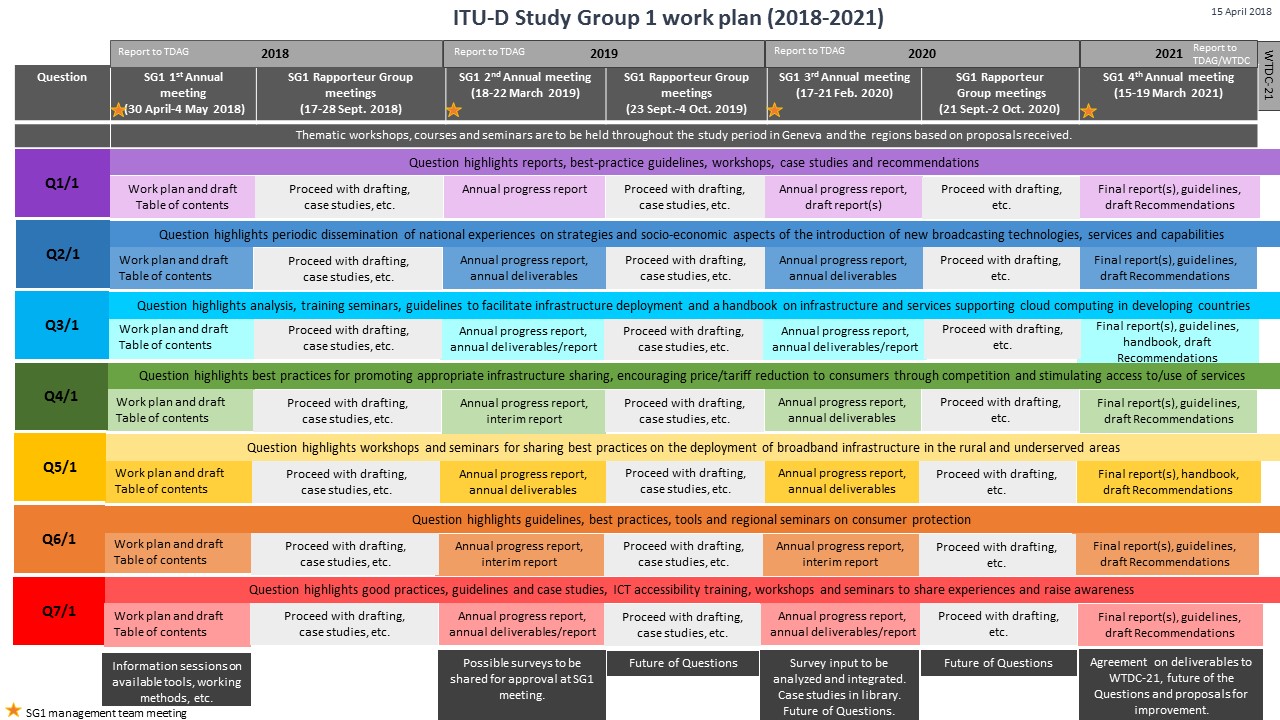
Chairman and vice-chairmen (also available at: <https://www.itu.int/net4/ITU-D/CDS/sg/chairmen.asp?lg=1&sp=2018>)

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

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

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

Annex 2: ITU-D Study Group 1 work plan



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**Annex 3: Possible topics of interest to the work of WTDC Resolution 9, for discussion, extracted from member contributions as input for the implementation of Resolution 9**

Example of one entry, further details for Q2/1 can be found in document [1/381 (Rev.1)](https://www.itu.int/md/D18-SG01-c-0381).

**Table 1: Template for capturing possible topics of interest to the work of WTDC Resolution 9 (Rev. Buenos Aires, 2017) linked to the type of assistance mentioned in Resolution 9**

| **#** | **Title** | **Source** | **Aspects of the contributions related to the scope of work of Resolution 9** |
| --- | --- | --- | --- |
| [RGQ1/251](http://www.itu.int/md/D18-SG01.RGQ-C-0251/) | xx | xx | Relevant Topics of Annex 1 of Resolution 9:   * 10 “Emerging technologies and approaches in using spectrum”; and * 8 “Transition to digital terrestrial television broadcasting”   Relating to[[3]](#footnote-3):   * Usage of UHD in broadcasting. |
|  |  |  |  |
|  |  |  |  |

**Type of assistance:**

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

**Table 2: Template for capturing possible topics of interest to the work of WTDC Resolution 9 (Rev. Buenos Aires, 2017) linked to the type of assistance mentioned in Resolution 9 – consolidated version**

| **Title** | **Source** | **Contribution** | **TYPE OF ASSISTANCE (see above explanation)** | | | | | | | | | | | | | **Topic**[[4]](#footnote-4): |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** |
| Contribution title | xx | [RGQ1/251](http://www.itu.int/md/D18-SG01.RGQ-C-0251/) |  |  |  |  |  |  |  | x |  | x |  |  |  | Usage of UHD in broadcasting. |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Further details and examples of how contributions can be mapped to the tables can be found in document [1/381 (Rev.1)](https://www.itu.int/md/D18-SG01-c-0381).

**Table 3: Template for capturing possible topics of interest to the work of WTDC Resolution 9 (Rev. Buenos Aires, 2017) linked to the type of assistance mentioned in Resolution 9 – consolidated version for Question 2/1** (document [1/381 (Rev.1)](https://www.itu.int/md/D18-SG01-c-0381)).

| **Title** | **Source** | **Contribution** | **TYPE OF ASSISTANCE (see above explanation)** | | | | | | | | | | | | | **Topic**[[5]](#footnote-5): |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** |
| Industrial cooperation to promote the development of China's 4K ultra-HD industry | Huawei Technologies Co. Ltd. | [RGQ1/251](http://www.itu.int/md/D18-SG01.RGQ-C-0251/) |  |  |  |  |  |  |  | x |  | x |  |  |  | Usage of UHD in broadcasting. |
| 5G application in video service area | Huawei Technologies Co. Ltd. | [RGQ1/249](http://www.itu.int/md/D18-SG01.RGQ-C-0249/) |  |  |  |  |  |  |  |  |  | x |  |  |  | Use case of 5G for mobile immersive services based VR/AR technologies. |
| Television/video programming accessibility policy framework | Russian Federation | [RGQ1/247](http://www.itu.int/md/D18-SG01.RGQ-C-0247/) |  |  |  |  |  |  |  | x |  | x |  |  |  | Innovative accessibility features in broadcasting. |
| Progress report on Chapter 1 of Q2/1 Report | TRA, Lebanon | [RGQ1/231](http://www.itu.int/md/D18-SG01.RGQ-C-0231/) +Ann.1 |  |  |  |  |  |  |  | x |  | x | x |  |  | Transition best practices (section 1.2);  Spectrum planning for the ASO (section 1.3);  Digital to digital transition (section 1.2.3.2) and;  Interference mitigation for the ASO (section 1.4). |
| Presentation on Q2/1 (Status of Q2/1 Report) | TRA, Lebanon | [RGQ1/230](http://www.itu.int/md/D18-SG01.RGQ-C-0230/) +Ann.1 |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Draft text for Q2/1 Report related to item 2.4 of the Question on "National experiences on interference mitigation measures" | TRA, Lebanon | [RGQ1/226](http://www.itu.int/md/D18-SG01.RGQ-C-0226/) |  |  |  |  |  |  |  | x |  |  | x |  |  | Transition and to interference mitigation for the ASO. |
| Draft text for Q2/1 Report related to Chapter 1, sub part 1.6 "Conclusions, lessons learned from national experiences" | TRA, Lebanon | [RGQ1/225](http://www.itu.int/md/D18-SG01.RGQ-C-0225/) |  |  |  |  |  |  |  | x |  |  |  |  |  | Lesson’s learned from the transition to digital broadcasting. |
| Draft text for Q2/1 Report related to item 2.6 of the Question on "Costs of the transition to digital broadcasting and implications for the various players" | TRA, Lebanon | [RGQ1/224](http://www.itu.int/md/D18-SG01.RGQ-C-0224/) |  |  |  |  | x |  |  | x |  |  |  |  |  | Costs from the transition to digital broadcasting. |
| Status and lessons learned from the adoption and implementation of digital terrestrial television broadcasting in Brazil | Brazil (Federative Republic of) | [RGQ1/223](http://www.itu.int/md/D18-SG01.RGQ-C-0223/) |  |  |  |  |  |  |  | x |  |  |  |  |  | Lesson’s learned from the transition to digital broadcasting. |
| Disposal of equipment resulting from the actions related to the DSO Process in Brazil | Brazil (Federative Republic of) | [RGQ1/222](http://www.itu.int/md/D18-SG01.RGQ-C-0222/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Interference mitigation between main and relay stations and the digital dividend stations during or after the DSO | Brazil (Federative Republic of) | [RGQ1/221](http://www.itu.int/md/D18-SG01.RGQ-C-0221/) |  |  |  |  |  |  |  | x |  |  | x |  |  | Transition to digital broadcasting and interference mitigation for the ASO. |
| Emergency alerts through broadcasting services - Regulations and technology | Brazil (Federative Republic of) | [RGQ1/220](http://www.itu.int/md/D18-SG01.RGQ-C-0220/) |  |  |  |  |  |  |  | x |  | x |  |  |  | Innovative emergence alerting features in broadcasting. |
| Discussions on the adoption and implementation of digital sound broadcasting in Brazil | Brazil (Federative Republic of) | [RGQ1/219](http://www.itu.int/md/D18-SG01.RGQ-C-0219/) (Rev.1) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Overview of the audiovisual sector and the digital migration process in Chad | Chad (Republic of) | [RGQ1/186](http://www.itu.int/md/D18-SG01.RGQ-C-0186/) |  |  |  |  |  |  |  | x |  |  |  |  |  | Lesson’s learned from the transition to digital broadcasting. |
| Updated version of the draft text on ITU activities related to digital broadcasting and digital dividend | TRA, Lebanon | [RGQ1/173](http://www.itu.int/md/D18-SG01.RGQ-C-0173/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Improvement of ITU tools used for the simulation of broadcasting networks in sub-Saharan Africa | Cameroon (Republic of) | [RGQ1/133](http://www.itu.int/md/D18-SG01.RGQ-C-0133/) |  |  |  | x |  |  |  |  |  |  |  |  |  | Improvements of ITU tools used for the simulation of broadcasting networks in sub-Saharan Africa. |
| Update to the draft matrix of ITU-R Working Parties and ITU-D Questions | TRA, Lebanon | [1/243](https://www.itu.int/md/D18-SG01-C-0243/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Draft text for Q2/1 Report related to Chapter 3 | TRA, Lebanon | [1/242](https://www.itu.int/md/D18-SG01-C-0242/) |  |  |  |  |  |  |  |  | x |  |  |  |  | Availability of the digital dividend in various regions. |
| Efforts towards promotion of 4K/8K broadcasting | Japan | [1/231](https://www.itu.int/md/D18-SG01-C-0231/) |  |  |  |  |  |  |  | x |  | x |  |  |  | Usage of UHD in broadcasting. |
| Presentation on Q2/1 (Status of Q2/1 Report) | TRA, Lebanon | [1/226](https://www.itu.int/md/D18-SG01-C-0211/) +Ann.1 |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Draft text for Q2/1 Report related to item 2.1 of the Question on "Issues for the transition to digital terrestrial television broadcasting" | TRA, Lebanon | [1/214](https://www.itu.int/md/D18-SG01-C-0211/) |  |  |  |  |  |  |  | x |  | x |  |  |  | Best practices on the transition to digital broadcasting (section 1.2); and  Digital to digital transition (section 1.2.3.2). |
| Draft text for Q2/1 Report related to item 2.3 of the Question "National experiences on spectrum planning activities for the Analogue switch-off" | TRA, Lebanon | [1/211](https://www.itu.int/md/D18-SG01-C-0211/) |  |  |  |  |  |  |  | x |  | x |  |  |  | Best practices on the transition to digital broadcasting and spectrum planning for the ASO. |
| Updated version of the draft text on ITU activities related to digital broadcasting and digital dividend | TRA, Lebanon | [1/210](https://www.itu.int/md/D18-SG01-C-0210/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Case study: The United States digital television transition | United States of America | [1/206](https://www.itu.int/md/D18-SG01-C-0206/) |  |  |  |  |  |  |  | x |  |  |  |  |  | Lesson’s learned from the transition to digital broadcasting. |
| National IPv6 migration plan | Oman Telecommunications Regulatory Authority (TRA) | [1/204](https://www.itu.int/md/D18-SG01-C-0204/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Survey on the status of migration to digital terrestrial television broadcasting | Chad (Republic of) | [1/130](https://www.itu.int/md/D18-SG01-C-0130/) |  |  |  |  |  |  |  | x |  |  |  |  |  | Status of the transition to digital broadcasting. |
| Digital dividend | Chad (Republic of) | [1/127](https://www.itu.int/md/D18-SG01-C-0127/) |  |  |  |  |  |  |  |  | x |  |  |  |  | Availability of the digital dividend in Chad. |
| Vulnerability of connected TVs | Chad (Republic of) | [1/126](https://www.itu.int/md/D18-SG01-C-0126/) |  |  |  |  |  |  |  |  |  | x |  |  |  | Usage of HbbTV in broadcasting. |
| Introduction of trends in new broadcasting technologies, services and applications | Huawei Technologies Co. Ltd. | [RGQ1/88](http://www.itu.int/md/D18-SG01.RGQ-C-0088/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| ITU-D and ITU-R inter-Sector coordination: Draft Mapping of ITU-R Working Parties’ activities to the ITU-D study Questions | ATDI | [RGQ1/84](http://www.itu.int/md/D18-SG01.RGQ-C-0084/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Use cases of new technologies, services and capabilities in broadcasting | Brazil (Federative Republic of) | [RGQ1/76](http://www.itu.int/md/D18-SG01.RGQ-C-0076/) |  |  |  |  |  |  |  |  |  | x |  |  |  | Use cases of Multimedia application frameworks (MAFR, ITU-T H.76x Series) in broadcasting. |
| Draft text for Q2/1 Report related to item 2.7 of the Question on the use of the digital dividend | Telecommunications Regulatory Authority (TRA) | [RGQ1/65](http://www.itu.int/md/D18-SG01.RGQ-C-0065/) |  |  |  |  |  |  |  |  | x |  |  |  |  | Availability of the digital dividend in various regions. |
| ITU Spectrum Management Training Program | AFRALTI | [RGQ1/64](http://www.itu.int/md/D18-SG01.RGQ-C-0064/) +Ann.1 | x |  |  |  |  |  |  |  |  |  |  |  |  | ITU Spectrum Management Training Program. |
| Draft text for ‘Executive Summary’ on ITU activities related to digital broadcasting and digital dividend | Telecommunications Regulatory Authority (TRA) | [RGQ1/63](http://www.itu.int/md/D18-SG01.RGQ-C-0063/) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Revised Draft Table of Contents for ITU-D Question 2/1 Report | Telecommunications Regulatory Authority (TRA) | [RGQ1/62](http://www.itu.int/md/D18-SG01.RGQ-C-0062) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |
| Report on the ITU-D Study Groups related Experts’ Knowledge Exchange | Hungary | [RGQ1/33](http://www.itu.int/md/D18-SG01.RGQ-C-0033/) +Ann.1 |  |  |  |  | x |  |  | x | x |  |  |  |  | Costs and availability of the digital dividend (section 2.2 of the Report); and  Aspects related to digital broadcasting (section 2.2 of the Report). |
| The process of introducing DSB in Tanzania | Tanzania (United Republic of) | [1/72](http://www.itu.int/md/D18-SG01-C-0072) |  |  |  |  |  |  |  |  |  |  |  |  |  | N/A |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Question 7/1 would like to express its interest in further collaboration and information/expertise sharing with the following EGTI/EGH 2020 agenda items: (reference document [1/322](https://www.itu.int/md/D18-SG01-c-0322))[[6]](#footnote-6)

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

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

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

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

**4.n Accessible ICTs**

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

□ Yes

□ No

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

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

□ Yes

□ No

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

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

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

□ *Mobile communication accessibility;*

□ *Television/video programming accessibility;*

□ *Web accessibility;*

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

□ *Public procurement for accessible ICTs*

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

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

□ Yes

□ No

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

*Name of the entity*

*Area of the responsibility/activity*

*Entity’s website*

*Name of the focal point*

*Email of the focal point*

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

□ Yes

□ No

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

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

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

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

b)

c)

…

1. In accordance with its ToR, identified by WTDC-17, Study Question 7/1 asks EGTI/EGH to assist in providing the relevant statistical information on the following areas[[8]](#footnote-8)

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

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

1. 第1研究组2020年图片可查阅：<https://www.flickr.com/photos/itupictures/albums/72157713145396718> [↑](#footnote-ref-1)
2. 电信发展局主任的讲话可查看此超级链：<https://www.itu.int/en/ITU-D/bdt-director/Pages/Speeches.aspx?ItemID=235> [↑](#footnote-ref-2)
3. Example: “Relating to” section points out the topics in the contribution submitted to Q2/1 that relates to the topics of Annex 1 of Resolution 9, to be considered as input for the work to be conducted in the implementation of the Resolution. [↑](#footnote-ref-3)
4. Example: “Relating to” section points out the topics in the contribution submitted to Q2/1 that relates to the topics of Annex 1 of Resolution 9, to be considered as input for the work to be conducted in the implementation of the Resolution. [↑](#footnote-ref-4)
5. “Relating to” section points out the topics in the contribution submitted to Q.2/1 that relates to the topics of Annex 1 of Resolution 9, to be considered as input for the work to be conducted in the implementation of the Resolution. [↑](#footnote-ref-5)
6. 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-6)
7. Rapporteurs are invited to share their thoughts/concerns/suggestions with regard to EGTI/EGH activities. [↑](#footnote-ref-7)
8. If not covered in 1.b [↑](#footnote-ref-8)