

## Attachment 1

### Matching of ITU-D SG1 and SG2 Questions of interest to ITU-T study groups

Amendments herein reflect:

- TSAG-ILS TD341 from TDAG (11 May 2018)
- TSAG-ILS TD350 from ITU-T SG11 (27 July 2018)
- TSAG-ILS TD351 from ITU-T SG11 (27 July 2018)
- TSAG-ILS TD355 from ITU-T SG13 (27 July 2018)
- TSAG-ILS TD361 from ITU-T SG17 (7 September 2018)
- TSAG-ILS TD366 from ITU-T SG2 (14 September 2018)
- TSAG-ILS TD378 from ITU-T SG5 (21 September 2018)
- TSAG-ILS TD386r1 from ITU-T SG15 (19 October 2018)
- TSAG-ILS TD410 from TDAG (5 December 2018)
- ITU-T CIR 112 (12 September 2018).

### Reviewed matching of ITU-D SG1 and SG2 Questions of interest to ITU-T SG11.

Table 1 – ITU-D Questions vis-à-vis ITU-T Questions

ITU-D SG1		
<a href="#">Question 1/1</a> : Strategies and policies for the deployment of broadband in developing countries		
ITU-T SG	ITU-T Question	Work items
<a href="#">SG2</a>	<a href="#">Q1/2</a> : Application of numbering, naming, addressing and identification plans for fixed and mobile telecommunications services	<a href="#">E.129</a> Presentation of national numbering plans <a href="#">E.101</a> Definitions of terms used for identifiers (names, numbers, addresses and other identifiers) for public telecommunication services and networks in the E-series Recommendations; <a href="#">E.A-ENUM</a> Principles and procedures for the administration of E.164 country codes for registration into the Domain Name System; <a href="#">E.spn</a> Management and assignment of global Service Provider Numbers (SPN); <a href="#">E.164 Supplement 2</a> Management and Assignment of Global Service Provider Numbers (SPN); <a href="#">M.rdm</a> Requirements for Data Management in the TMN
	<a href="#">Q2/2</a> : Routing and interworking plan for fixed and mobile networks	
	<a href="#">Q5/2</a> : Requirements, priorities and planning for telecommunication management and operation, administration and maintenance (OAM) Recommendations	<a href="#">M.somm (ex M.inomsa)</a> Framework of smart operation, management and maintenance
	<a href="#">Q6/2</a> : Management architecture and security	

<b>ITU-D SG1</b>		
<b><u>Question 1/1: Strategies and policies for the deployment of broadband in developing countries</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG3</u></a>	<a href="#"><u>Q1/3</u></a> : Development of charging and accounting/settlement mechanisms for international telecommunications services using the next-generation networks (NGNs), future networks, and any possible future development, including adaptation of existing D-series Recommendations to the evolving user needs	<a href="#"><u>D.Framework</u></a> Framework for ICT service delivery with the guaranteed QoS and requested bitrate on fixed & mobile data networks, for development of efficient economic mechanisms and models of interaction in the "operator-provider-user" chain
	<a href="#"><u>Q2/3</u></a> : Development of charging and accounting/settlement mechanisms for international telecommunications services, other than those studied in Question 1/3, including adaptation of existing D-series Recommendations to the evolving user needs	
	<a href="#"><u>Q3/3</u></a> : Study of economic and policy factors relevant to the efficient provision of international telecommunication services	<a href="#"><u>D.Classification</u></a> Classification of telecommunications services in data networks; <a href="#"><u>D.GVR</u></a> Towards better governance of telecommunication regulation; <a href="#"><u>D.IoTpolicy</u></a> Guidelines on Tariff and regulatory aspects of Internet of Things (IoT) <a href="#"><u>D.Licensing</u></a> Mechanisms for pricing of licenses for mobile/broadband/fixed; <a href="#"><u>D.SpectrumShare</u></a> Shared use of spectrum and infrastructure; <a href="#"><u>Study_EPQoS</u></a> Study of economic and policy factors relevant to the efficient provision of international telecommunication services
	<a href="#"><u>Q4/3</u></a> : Regional studies for the development of cost models together with related economic and policy issues	
	<a href="#"><u>Q6/3</u></a> : International Internet connectivity including relevant aspects of Internet protocol (IP) peering, regional traffic exchange points, cost of provision of services and impact of transition from Internet protocol version 4 (IPv4) to Internet protocol version 6 (IPv6)	<a href="#"><u>D. BGPE</u></a> Proposed new recommendation on International Internet Connectivity; <a href="#"><u>D.ComplIIC</u></a> Draft Recommendation ITU-T D.XX on Framework for the Competitive Provision of International Internet Connectivity (IIC); <a href="#"><u>STUDY_IIC</u></a> International Internet Connectivity, including IP peering, Regional Traffic Exchange Points, and cost of provision of services; <a href="#"><u>STUDY_IPV6</u></a> Economic impact of transition from IPv4 to IPv6

<b>ITU-D SG1</b>		
<b><u>Question 1/1</u>: Strategies and policies for the deployment of broadband in developing countries</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q10/3</a> : Definition of relevant markets, competition policy and identification of operators with significant market power (SMP) as it relates to the economic aspects of the international telecommunication services and networks	<a href="#">D.CrossBorderSMP</a> Quantifying cross-border market power; <a href="#">D.DynamicTariff</a> Impact of Dynamic Tariffing on Market Competitiveness
	<a href="#">Q11/3</a> : Economic and policy aspects of big data and digital identity in international telecommunications services and networks	
	<a href="#">Q13/3</a> : Study of Tariff, Charging Issues of Settlements Agreement of Trans-multi-country Terrestrial Telecommunication Cables	<a href="#">D. ModelTTC</a> Model of trans-multi-country terrestrial cable resource sharing
	<del><a href="#">Q6/5</a>: Achieving energy efficiency and smart energy</del>	<del><a href="#">L.5G powering</a> Sustainable power feeding solutions for 5G network; <a href="#">LSTR.5GEE</a> Study on methods and metrics to evaluate energy efficiency for future 5G systems (Completed in 2017); <a href="#">Suppl. RBSbest prac</a> Supplement to L.RBS Radio base station site best practices</del>
	<del><a href="#">Q9/5</a>: Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)</del>	
<a href="#">SG5</a>	<del><a href="#">Q6/5</a>: Achieving energy efficiency and smart energy</del>	<del><a href="#">L.5G powering</a> Sustainable power feeding solutions for 5G network; <a href="#">L.Suppl. RBSbest prac</a> Supplement to L.RBS Radio base station site best practices <a href="#">L.1220 L.1220: Innovative energy storage technology for stationary use – Part 1: Overview of energy storage</a> <a href="#">L.1221 L.1221: Innovative energy storage technology for stationary use – Part 2: Battery</a> <a href="#">L.1222L.1222: Innovative energy storage technology for stationary use – Part 3: Supercapacitor technology</a> <a href="#">L.1310 L.1310: Energy efficiency metrics and measurement methods for telecommunication equipment</a> <a href="#">Energy efficiency metrics and measurement methods for telecommunication equipment</a></del>

<b>ITU-D SG1</b>		
<b><u>Question 1/1: Strategies and policies for the deployment of broadband in developing countries</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<a href="#"><u>L.1320 L.1320: Energy efficiency metrics and measurement for power and cooling equipment for telecommunications and data centres: Energy efficiency metrics and measurement for power and cooling equipment for telecommunications and data centres</u></a> <a href="#"><u>L.SE BS Smart energy solution for telecom base stations</u></a>
	<a href="#"><u>Q7/5: Circular economy including e-waste</u></a>	<a href="#"><u>L.1020: Circular economy: Guide for operators and suppliers on approaches to migrate towards circular ICT goods and networks</u></a> <a href="#"><u>L.1021: Extended producer responsibility - Guidelines for sustainable e-waste management</u></a> <a href="#"><u>L.1030: E-waste management framework for countries</u></a> <a href="#"><u>L.1022 (ex L.CE concepts) Circular Economy: Definitions and concepts for material efficiency for ICT</u></a> <a href="#"><u>L.1032 (ex L.ER) Guidelines and Certification Schemes for e-Waste Recyclers</u></a> <a href="#"><u>L.methodology_arch Methodology to assess the environmental impact of the different proposed architectures</u></a>
	<a href="#"><u>Q9/5: Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)</u></a>	<a href="#"><u>L.1700: Requirements and framework for low-cost sustainable telecommunications infrastructure for rural communications in developing countries</u></a>
<a href="#"><u>SG9</u></a>	<p><a href="#"><u>Q5/9: Software components application programming interfaces (APIs), frameworks and overall software architecture for advanced content distribution services within the scope of Study Group 9</u></a></p> <p><a href="#"><u>Q8/9: The Internet protocol (IP) enabled multimedia applications and services for cable television networks enabled by converged platforms</u></a></p> <p><a href="#"><u>Q9/9: Requirements, methods, and interfaces of the advanced service platforms to enhance the delivery of sound, television, and other multimedia interactive services over cable television network</u></a></p>	

<b>ITU-D SG1</b>		
<b><u>Question 1/1: Strategies and policies for the deployment of broadband in developing countries</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG11</u></a>	<a href="#"><u>Q1/11</u></a> : Signalling and protocol architectures in emerging telecommunication environments and guidelines for implementations	<a href="#"><u>Q.3053 (ex Q.Arc-IPSMS)</u></a> Signalling architecture and requirements for IP based short message service over ITU-T defined NGN <a href="#"><u>Q.DEN_IMS</u></a> : Signalling architecture of distributed ENUM networking for IMS
	<a href="#"><u>Q2/11</u></a> : Signalling requirements and protocols for services and applications in emerging telecommunication environments	<a href="#"><u>Q.3640 (ex Q.30xx VoLTE Interconnection FW)</u></a> Framework of interconnection of VoLTE/ViLTE-based networks; <a href="#"><u>Q.IMS_NGN_Rel.11</u></a> IMS references to Release 11 for communication between IMS and NGN Networks in order to support the end-to-end service interoperability
	<a href="#"><u>Q4/11</u></a> : Protocols for control, management and orchestration of network resources	<a href="#"><u>Q.3405 (ex Q.IPv6ProBB)</u></a> IPv6 protocol procedures for broadband services; <a href="#"><u>Q.SMO Signalling requirements of Software-defined Metro Orchestration</u></a> ; <a href="#"><u>Q.SCC Signalling requirements and information model of Cooperative Controller</u></a> <a href="#"><u>Q.SD-DCI Signalling requirements and information model of SD-DCI service</u></a> <a href="#"><u>Q.SD-WAN Signalling Requirement for SD-WAN service</u></a> <a href="#"><u>Q.SVDC Signalling requirements of the Sew interface for Virtual Data Center</u></a> <a href="#"><u>Q Supplement 67 Framework of signalling for Software Defined Networking</u></a> <a href="#"><u>Q.3711 (ex Q.SBAN) Signalling requirements for software-defined broadband access network</u></a> <a href="#"><u>Q.3316 (ex Q.CSO) Interface and Signalling Requirements and Specification for Cross Stratum Optimization</u></a> <a href="#"><u>Q.3716 (ex Q.PVMapping) Signalling Requirements for Mapping between Physical and Virtual Networks</u></a> <a href="#"><u>Q.3740 (ex Q.SCO) Signalling Requirements for SDN and NFV based Central Office services</u></a>
	<a href="#"><u>Q5/11</u></a> : Protocols and procedures supporting services provided by broadband network gateways	<a href="#"><u>Q.3715 (ex Q.BNG-DBoD)</u></a> Signalling requirements for dynamic bandwidth adjustment on demand on broadband network gateway implemented by software-defined networking technologies <a href="#"><u>Q.BNG-IAP</u></a> Signalling requirements of IP address pool based on broadband network gateway by SDN technologies <a href="#"><u>Q.BNG-CFS</u></a> Signalling requirements for control and forwarding plane separation in vBNG <a href="#"><u>Q.BNG-PAC</u></a> Procedures for vBNG acceleration with programmable acceleration card

<b>ITU-D SG1</b>		
<b><u>Question 1/1</u>: Strategies and policies for the deployment of broadband in developing countries</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q6/11</a> : Protocols supporting control and management technologies for IMT-2020	<a href="#">Q.CE-APIMP</a> Protocol for managing capability exposure APIs in IMT-2020 network <a href="#">Q.NS-LCMP</a> Protocol for network slice lifecycle management <a href="#">Q.D2D-EECP</a> Energy efficient D2D communication protocol for IMT 2020 network <a href="#">Q.IMT2020-PFW</a> Protocol Framework for IMT-2020
	<a href="#">Q7/11</a> : Signalling requirements and protocols for network attachment including mobility and resource management for future networks and IMT-2020	<a href="#">Q.3714 (ex Q.SAN-MIM)</a> Signalling requirements of SDN-based access networks with media independent management capabilities; <a href="#">Q.NEA-REQ</a> Signalling Requirements of NFV Entity Management for Network Attachment <a href="#">Q.IEC-REQ</a> Signalling requirements and architecture of intelligent edge computing <a href="#">Q.MEA-SRA</a> Signalling requirement and architecture for media service entity attachment <a href="#">Q.QMP-TCA</a> QoS management protocol for time constraint applications over SDN
	<a href="#">Q8/11</a> : Protocols supporting distributed content networking and information centric network (ICN) for future networks and IMT-2020, including end-to-end multi-party communications	<a href="#">X.609.3 (ex X.mp2p-mssr)</a> Managed P2P communications: Multimedia streaming signalling requirements <a href="#">X.609.4 (ex X.mp2p-mspp)</a> Managed P2P communications: Multimedia streaming peer protocol <a href="#">X.609.5 (ex X.mp2p-msomp)</a> Managed P2P communications: Multimedia streaming overlay management protocol <a href="#">X.mp2p-cdsr</a> Managed P2P communications: Content distribution signalling requirements <a href="#">X.mp2p-cdpp</a> Managed P2P communications: Content distribution peer protocol
	<a href="#">Q9/11</a> : Service and networks benchmark testing, remote testing including Internet performance measurements	<a href="#">Q.3961 (ex Q.TM Int sp test)</a> Testing methodologies of Internet related performance measurements including e2e bit rate within the fixed and mobile operator's networks
	<a href="#">Q10/11</a> : Testing of emerging IMT-2020 technologies	<a href="#">Guideline-TEST UE/MS</a> Guideline for general test procedure and specification for measurements of the LTE, 3G/2G user Equipment/mobile stations (UE/MS); <a href="#">Q.SDN-CT</a> Framework of SDN controller testing; <a href="#">Q.SDN-OFT</a> The compatibility testing of SDN-based equipment using OpenFlow protocol; <a href="#">Q.vs-iop-reqts</a> Interoperability testing requirements of virtual switch
	<a href="#">Q14/11</a> : Cloud interoperability testing	<a href="#">Q.vbng-iop-reqts</a> Interoperability testing requirements of virtual Broadband Network Gateway

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<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q15/11</a> : Combating counterfeit and stolen ICT equipment	
<a href="#">SG12</a> <a href="#">QSDG</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T	
	<a href="#">Q2/12</a> : Definitions, guides and frameworks related to quality of service/quality of experience (QoS/QoE)	<a href="#">G.IMT2020</a> QoS Framework for IMT 2020; <a href="#">HB-CoCa</a> Handbook on Country Case Studies; <a href="#">HB-Guireg</a> Handbook providing guidance to regulators; <a href="#">HB-QoS</a> Handbook on Quality of Service (QoS); <a href="#">HB-Recs</a> Handbook on SG12 Recommendations; <a href="#">P.10/G.100</a> Vocabulary for performance, quality of service and quality of experience
	<a href="#">Q8/12</a> : Virtualized deployment of recommended methods for network performance, QoS and QoE assessment	<a href="#">Y.cvms</a> Considerations for Realizing Virtual Measurement Systems
	<a href="#">Q11/12</a> : Performance considerations for interconnected networks	<a href="#">G.ACP</a> Guidelines regarding the minimum QoS and QoE threshold to be fulfilled during the use of alternative calling procedures; <a href="#">G.ViLTE</a> End-to-end QoS for Video Telephony over 4G mobile networks;
	<a href="#">Q12/12</a> : Operational aspects of telecommunication network service quality	<a href="#">E.MTSM</a> Measurement scenarios, advanced measurement systems and sampling methodologies to monitor the QoS in mobile networks; <a href="#">E.QSIMBox</a> The effect of SIM-boxing on QoS and QoE; <a href="#">E.RQUAL</a> Strategies to Establish Quality Measurement Frameworks
	<a href="#">Q13/12</a> : QoE, QoS and performance requirements and assessment methods for multimedia)	<a href="#">G.NCP</a> QoE-based network capacity planning
	<a href="#">Q16/12</a> : Framework for diagnostic functions	<a href="#">E.FINAD</a> Framework for Intelligent Network Analytics and Diagnostics
	<a href="#">Q17/12</a> : Performance of packet-based networks and other networking technologies	
	<a href="#">Q18/12</a> : Measurement and control of the end-to-end quality of service (QoS) for advanced television technologies, from image acquisition to rendering, in contribution, primary distribution and secondary distribution networks	
	<a href="#">Q19/12</a> : Objective and subjective methods for evaluating perceptual audiovisual quality in multimedia services	

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<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG13</u></a>	<a href="#"><u>Q1/13</u></a> : Innovative services scenarios, deployment models and migration issues based on Future Networks	<a href="#"><u>Handbook on IMT-2000 (2nd Edition)</u></a> The Handbook of evolving IMT-2000 Systems
	<a href="#"><u>Q2/13</u></a> : Next-generation network (NGN) evolution with innovative technologies including software-defined networking (SDN) and network function virtualization (NFV)	<a href="#"><u>Technical Report on Network 2030</u></a> Network 2030 - beyond IMT-2020; <a href="#"><u>Y.2322 (ex Y.NGN-VCNMO-Arch)</u></a> The functional architecture of VCNMO (Virtualized Control Network entities Management and Orchestration) in NGN evolution; <a href="#"><u>Y.2341 (ex Y. NGNe-authorized account messaging ser)</u></a> Next Generation Network evolution - Requirements and capabilities for supporting authorized account messaging service; <a href="#"><u>Y.NGNe-BC-reqts</u></a> Scenarios and capability requirements of blockchain in next generation network evolution <a href="#"><u>Y.NGNe-O-arch</u></a> Functional architecture of orchestration in NGNe; <a href="#"><u>Y.NGNe-O-reqts</u></a> Requirements and capabilities of orchestration in NGNe
	<a href="#"><u>Q5/13</u></a> : Applying networks of future and innovation in developing countries	<a href="#"><u>Supp-Y.IMT2020-Awareness-UC&amp;Migration</u></a> Trustworthy networking deployment architecture, mechanism, and procedure
	<a href="#"><u>Q6/13</u></a> : Quality of service (QoS) aspects including IMT-2020 networks	<a href="#"><u>Y.IMT2020-qos-fr</u></a> QoS support framework architecture for IMT-2020 networks <a href="#"><u>Y.IMT2020-qos-req</u></a> QoS requirements for IMT-2020 network
	<a href="#"><u>Q7/13</u></a> : Big data driven networking (bDDN) and Deep packet inspection (DPI)	<a href="#"><u>Y. bDDN-MNTMP</u></a> Big data driven mobile network traffic management and planning <a href="#"><u>Y.bDDN-FunArch</u></a> Functional architecture of big data driven networking; <a href="#"><u>Y.bDDN-req</u></a> Requirement of big data-driven networking <a href="#"><u>Y.2774 (ex Y.DpiReqFn)</u></a> Functional requirements of deep packet inspection for future networks; <a href="#"><u>Y.Dpi-ArchFN (ex Y.DpiArchFn)</u></a> Functional architecture of deep packet inspection for future networks
	<a href="#"><u>Q20/13</u></a> : IMT-2020: Network requirements and functional architecture	<a href="#"><u>Y.3100 (ex Y.IMT2020-terms)</u></a> Terms and definitions for IMT-2020 network; <a href="#"><u>Y.3101 (ex Y.IMT2020-reqts)</u></a> Requirements of IMT-2020 network; <a href="#"><u>Y.3102 (ex Y.IMT2020-frame)</u></a> Framework of the IMT-2020 network; <a href="#"><u>Y.IMT2020-arch</u></a> Architecture of IMT-2020 network; <a href="#"><u>Y.IMT2020-BM</u></a> Business Models of IMT-2020



<b>ITU-D SG1</b>		
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<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q21/13</a> : Network softwarization including software-defined networking, network slicing and orchestration	<a href="#">Y.3100-series Supplement 44 (ex Suppl. To Y.IMT2020 series)</a> Standardization and open source activities related to network softwarization of IMT-2020; <a href="#">Y.3110 (ex Y.IMT2020-mgmt-req)</a> IMT-2020 Network Management and Orchestration Requirements; <a href="#">Y.3111 (ex Y.IMT2020-mgmt-frame)</a> IMT-2020 Network Management and Orchestration Framework; <a href="#">Y.amc (ex Y.amnsa)</a> Requirements and Architectural Framework for Autonomic Management and Control of IMT-2020 Networks (Y.amc); <a href="#">Y.3302 (ex Y.SDN-ARCH)</a> Functional architecture of software-defined networking
	<a href="#">Q22/13</a> : Upcoming network technologies for IMT-2020 and Future Networks	<a href="#">Y.ICN-ReqN</a> Requirements of ICN naming and name resolution in IMT-2020; <a href="#">Y.SuppICN-PoC-DaaS</a> PoC for IoT Data as a Service using ICN in IMT-2020.
	<a href="#">Q23/13</a> : Fixed-Mobile Convergence including IMT-2020	<a href="#">Y.2041 (ex Y.MC-PCM)</a> Policy Control Mechanism in Multi-connection; <a href="#">Y.3130 (ex Y.FMC-REQ)</a> Requirements of IMT-2020 fixed mobile convergence; <a href="#">Y.FMC-MM</a> Mobility management for fixed mobile convergence in IMT-2020 networks; <a href="#">Y.FMC-ReqMO</a> IMT-2020 FMC functional requirements for management and orchestration; <a href="#">Y.Suppl.MM-SDN (ex Y.Sup.MMsdn-usecase)</a> Supplement on use cases of mobility management over SDN <a href="#">Y.FMC-EC</a> Unified edge computing for supporting fixed mobile convergence in IMT-2020 networks <a href="#">Y.FMC-ARCH</a> Functional architecture for supporting fixed mobile convergence in IMT-2020 networks
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards	
	<a href="#">Q2/15</a> : Optical systems for fibre access networks	<a href="#">G.9806</a> Higher speed bidirectional single-fibre point to point optical access systems; <a href="#">G.9807.2 (2017) Amd.1</a> 10 Gigabit-capable symmetrical passive optical networks (XG(S)-PON): Reach extension - Amendment 1; <a href="#">G.hsp.50Gpmd</a> Higher Speed Passive Optical Networks: 50G PMD; <a href="#">G.hsp.comTC</a> Higher Speed Passive Optical Networks: Common Transmission Convergence layer;

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<b><u>Question 1/1</u>: Strategies and policies for the deployment of broadband in developing countries</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<a href="#">G.hsp.req</a> Higher Speed Passive Optical Networks: Requirements; <a href="#">G.hsp.TWDMpmd</a> Higher Speed Passive Optical Networks: TWDM PMD; <a href="#">G.RoF</a> Radio over Fiber systems; <a href="#">G.sup.5GP</a> 5G wireless fronthaul requirements in a PON context; <a href="#">G.RoF</a> Radio over Fiber systems; <a href="#">G.mgfast-PHY (ex G.mgfast)</a> Multi-Gigabit fast access to subscriber terminals (MGfast) – PHY; <a href="#">G.mgfast-PSD</a> Multi-Gigabit fast access to subscriber terminals (MGfast) - PSD
	<a href="#">Q4/15</a> : Broadband access over metallic conductors	
	<a href="#">Q11/15</a> : Signal structures, interfaces, equipment functions, and interworking for optical transport networks	<a href="#">G.ctn5g</a> Characteristics of transport networks to support IMT-2020/5G; <a href="#">GSup.5gotn</a> Application of OTN to 5G Transport
	<a href="#">Q12/15</a> : Transport network architectures	<a href="#">GSTR-TN5G</a> Transport network support of IMT-2020/5G
	<a href="#">Q16/15</a> : Optical physical infrastructures	
	<a href="#">Q18/15</a> : Broadband in-premises networking	<a href="#">G.hn2</a> Evolution of unified high-speed wire-line based home networking transceivers
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination	
	<a href="#">Q11/16</a> : Multimedia systems, terminals, gateways and data conferencing	
	<a href="#">Q13/16</a> : Multimedia application platforms and end systems for IPTV	<a href="#">H.721 (V3)</a> IPTV terminal devices: Basic model; <a href="#">H.722 (V2)</a> IPTV terminal device: full-fledged model; <a href="#">H.IPTV-AM.2</a> IPTV application event handling: Audience measurement for IPTV interactive services; <a href="#">HSTP.IPTV-GUIDE.1</a> IPTV service deployment scenarios in high-speed broadband era
	<a href="#">Q21/16</a> : Multimedia framework, applications and services	<a href="#">F.743.4 (ex F.VCDN-Reqs)</a> Functional requirements for virtual content delivery networks
<a href="#">SG17</a>	<a href="#">Q2/17</a> : Security architecture and framework	<a href="#">X.1041 (ex X.volTEsec-1)</a> Security framework for voice-over-long-term-evolution (VoLTE) network operation; <a href="#">X.SDSec</a> Guideline on Software-defined Security in SDN (Software-defined Networking)/NFV (Network Function Virtualization) Network; <a href="#">X.srnv</a> Security Requirements of Network Virtualization; <a href="#">X.sup30 (ex X.sup-sgmvno)</a> Supplement 30 to ITU-T X-series Recommendations - ITU-T X.805 Security guidelines for mobile virtual network operators

<b>ITU-D SG1</b>		
<b><u>Question 1/1</u>: Strategies and policies for the deployment of broadband in developing countries</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q6/17</a> : Security aspects of telecommunication services, networks and Internet of Things	<a href="#">X.sdnsec-1</a> Security services using the software-defined networking
	<a href="#">Q7/17</a> : Secure application services	<a href="#">X.1146 (ex X.websec-8)</a> Secure protection guidelines for value-added services provided by telecommunication operators; <a href="#">X.srfb</a> Security Requirements and Framework for Big Data Analytics in mobile Internet services
<a href="#">SG20</a>	<a href="#">Q1/20</a> : End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&C	
	<a href="#">Q2/20</a> : Requirements, capabilities, and use cases across verticals	<a href="#">Y.IoT-NCM-reqts</a> Requirements and capabilities of network connectivity management in the Internet of Things
	<a href="#">Q3/20</a> : Architectures, management, protocols and Quality of Service	<a href="#">Supp-Y.IPv6-IoT</a> IPv6 Potential for the Internet of Things and Smart Cities; <a href="#">Y.IPv6RefModel</a> Reference model of IPv6 subnet addressing plan for Internet of things deployment; <a href="#">Y.IPv6-suite</a> Reference Model of Protocol Suite for IPV6 interoperable Internet of Things Deployments; <a href="#">Y.NGNe-IoT-arch</a> Architecture of the Internet of Things based on NGNe
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms	
	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions	
	<a href="#">Q6/20</a> : Security, privacy, trust and identification	
	<a href="#">Q7/20</a> : Evaluation and assessment of Smart Sustainable Cities and Communities	

<b>ITU-D SG1</b>		
<b>Question 2/1: Strategies, policies, regulations and methods of migration and adoption of digital broadcasting and implementation of new services</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG9</a>	<a href="#">Q1/9</a> : Transmission and delivery control of television and sound programme signal for contribution, primary distribution and secondary distribution	<a href="#">J.382</a> Advanced digital downstream transmission systems for television, sound and data services for cable distribution; <a href="#">J.docsis31-gen</a> Fourth Generation Transmission Systems for Interactive Cable Television Services - IP Cable Modems: General; <a href="#">J.docsis31-phy</a> Fourth Generation Transmission Systems for Interactive Cable Television Services - IP Cable Modems: Physical Layer Specification
	<a href="#">Q2/9</a> : Methods and practices for conditional access, protection against unauthorized copying and against unauthorized redistribution ("redistribution control" for digital cable television distribution to the home)	<a href="#">J.1020 (ex J.dmobile-sma)</a> Service model and architecture of downloadable mobile multi-CA/DRM solutions for delivering CA/DRM client software to secondary device; <a href="#">J.dcas-oneway</a> Downloadable Conditional Access System for One-Way TV Networks
	<a href="#">Q4/9</a> : Guidelines for implementations and deployment of transmission of multichannel digital television signals over optical access networks	<a href="#">J.dtc-distribution-req</a> Television Content Distribution Platforms: Requirements for Open Access and Signal Quality; <a href="#">Sup-digTV</a> Installing a digital TV service for cable networks and relating Recommendations
	<a href="#">Q5/9</a> : Software components application programming interfaces (APIs), frameworks and overall software architecture for advanced content distribution services within the scope of Study Group 9	<a href="#">J.207</a> Specification for integrated broadcast and broadband digital television application control framework; <a href="#">J.acf-hrm</a> Harmonization of Integrated Broadcast-Broadband DTV application control framework; <a href="#">J.stvos-spec</a> Specification for the architecture and functional requirement of smart TV operating system; <a href="#">J.stvos-spec-arch</a> The Architecture of Smart TV Operating System
	<a href="#">Q6/9</a> : Functional requirements for residential gateway and set-top box for the reception of advanced content distribution services	<a href="#">J.297</a> Requirements and functional specification of cable set top box for 4K ultra high definition television; <a href="#">J.stb-cts</a> Requirements and technical specifications of cable TV hybrid set-top box that has the compatibility with terrestrial and satellite TV transport
	<a href="#">Q7/9</a> : Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data over cable networks	<a href="#">J.1106 (ex J.roip-req)</a> Requirement for Radio over IP transmission system; <a href="#">J.1107 (ex J.roip-arch)</a> Architecture and specification for Radio over IP transmission systems; <a href="#">J.roip-trans</a> Transmission specification for Radio over IP transmission system
	<a href="#">Q8/9</a> : The Internet protocol (IP) enabled multimedia applications and services for cable television networks enabled by converged platforms	<a href="#">J.qamip-req</a> Requirements on QAM to IP Conversion for IP Multi-Room/House Services

<b>ITU-D SG1</b>		
<b>Question 2/1: Strategies, policies, regulations and methods of migration and adoption of digital broadcasting and implementation of new services</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q10/9</a> : Work programme, coordination and planning	<a href="#">J.tda</a> Terms, definitions and acronyms for television and sound transmission and integrated broadband cable networks
<a href="#">SG12</a>	<a href="#">Q2/12</a> : Definitions, guides and frameworks related to QoS/QoE	<a href="#">G.191 (V6)</a> Software tools for speech and audio coding standardization; <a href="#">P.10/G.100</a> Vocabulary for performance, quality of service and quality of experience
	<a href="#">Q13/12</a> : QoE, QoS and performance requirements and assessment methods for multimedia	<a href="#">G.IPTV-MP</a> IPTV monitoring parameters
	<a href="#">Q18/12</a> : Measurement and control of the end-to-end QoS for advanced TV technologies, from image acquisition to rendering, in contribution, primary distribution and secondary distribution networks	<a href="#">J.q-uhd</a> Quality measurement methods for UHD services
	<a href="#">Q19/12</a> : Objective and subjective methods for evaluating perceptual audiovisual quality in multimedia services	<a href="#">P.911rev</a> Subjective audiovisual quality assessment methods for multimedia applications; <a href="#">J.343-rev</a> Hybrid perceptual/bitstream models for objective video quality measurements
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination	
	<a href="#">Q8/16</a> : Immersive live experience systems and services	<a href="#">H.ILE-SS</a> Service scenario of ILE; <a href="#">H.ILE-MMT</a> Service configuration, media transport protocols, signalling information of MMT for Immersive Live Experience systems
	<a href="#">Q13/16</a> : Multimedia application platforms and end systems for IPTV	<a href="#">H.IPTV-AM.2</a> IPTV application event handling: Audience measurement for IPTV interactive services; <a href="#">HSTP.IPTV-GUIDE.1</a> IPTV service deployment scenarios in high-speed broadband era; <a href="#">HSTP.IPTV-GUIDE.2</a> IPTV service parameters for new IPTV service providers <a href="#">H.721 (V3)</a> IPTV terminal devices: Basic model; <a href="#">H.722 (V2)</a> IPTV terminal devices: full-fledged model; <a href="#">H.IPTV-MDS</a> IPTV Multiple Devices Service; <a href="#">H.761 (V4)</a> Nested context language (NCL) and Ginga-NCL; <a href="#">HSTP.IPTV-HRM.2</a> Harmonization of MAFR series with multiple content sources.
	<a href="#">Q21/16</a> : Multimedia framework, applications and services	<a href="#">F.CDN-Reqs</a> Use-cases and requirements for multimedia CDN; <a href="#">H.MCDN</a> Functional architecture of multimedia content delivery network <a href="#">H.OIMSArch</a> Architecture for on-demand service based on interactive multimedia streaming

<b>ITU-D SG1</b>		
<b>Question 2/1: Strategies, policies, regulations and methods of migration and adoption of digital broadcasting and implementation of new services</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services	<a href="#">H.702</a> Accessibility Profiles for IPTV Systems
<a href="#">SG17</a>	<a href="#">Q6/17</a> : <a href="#">Security aspects of telecommunication services, networks and Internet of Things</a>	
	<a href="#">Q7/17</a> : <a href="#">Secure application services</a>	

<b>ITU-D SG1</b>		
<b>Question 3/1: Emerging technologies, including cloud computing: m-services, and OTTs: Challenges and opportunities, economic and policy impact for developing countries</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG2</a>	<a href="#">Q5/2</a> : Requirements, priorities and planning for telecommunication management and operation, administration and maintenance (OAM) Recommendations	<a href="#">M.3070/Y.3521</a> : Overview of end-to-end cloud computing management <a href="#">M.3071</a> : Cloud-based network management functional architecture <a href="#">M.3371</a> : Requirements for service management in cloud-aware telecommunication management system M.3372 (ex. <a href="#">M.rrmctm</a> ): Requirements for Service Management in Cloud-aware Telecommunication Management System
<a href="#">SG3</a> <a href="#">FG</a> <a href="#">DFS</a>	<a href="#">Q9/3</a> : Economic and regulatory impact of the Internet, convergence (services or infrastructure) and new services, such as over the top (OTT), on international telecommunication services and networks	<a href="#">D.50Supp</a> <a href="#">OTT</a> OTTs in the context of IIC; <a href="#">D.262</a> (ex <a href="#">D.OTT</a> ) Collaborative Framework for OTTs; <a href="#">D.OTTBypass</a> OTT Bypass; <a href="#">D.OTTMNO</a> Guidelines on OTT-MNO Partnerships; <a href="#">STUDY Convergence</a> Study on the economic impact of convergence of technology and services and the role of the Regulator; <a href="#">STUDY OTT</a> Study on Economic Impact of OTTs
	<a href="#">Q11/3</a> : Economic and policy aspects of big data and digital identity in international telecommunications services and networks	<a href="#">Study bigdata</a> Technical Paper on economic and policy aspects of Big Data in international telecommunication services and networks
	<a href="#">Q12/3</a> : Tariffs, Economic and Policy Issues Pertaining to Mobile Financial Services (MFS)	<a href="#">D.263</a> (ex <a href="#">D.MFS</a> ) Competition in Mobile Financial Services; <a href="#">D.AgentMFS</a> Guidelines for Mobile Financial Service Agents; <a href="#">D.EMoneyMFS</a> Guidelines for e-money issuers; <a href="#">D.MFSCM</a> Mobile Financial Services Transaction Cost Model; <a href="#">D.MFScoop</a> Guidelines for MOU between telecommunications regulators and central banks taking into account the Zambian experience and existing MOU

<b>ITU-D SG1</b>		
<b><u>Question 3/1: Emerging technologies, including cloud computing: m-services, and OTTs: Challenges and opportunities, economic and policy impact for developing countries</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q6/5</u></a> : Achieving energy efficiency and smart energy	<a href="#"><u>L.DCIM Specifications of data centre infrastructure management (DCIM) system based on Big Data and AI technology</u></a> <a href="#"><u>L.SE DC Smart energy solution for data centre and telecom centre</u></a> <del><a href="#"><u>L.methodology_arch Methodology to assess the environmental impact of the different proposed architectures</u></a></del>
	<a href="#"><u>Q7/5</u></a> : Circular economy including e-waste	<a href="#"><u>L.SEEQ</u></a> Effect for global ICT of the potential of selling Services instead of Equipment on the waste creation and environmental impacts <a href="#"><u>L.methodology_arch Methodology to assess the environmental impact of the different proposed architectures</u></a>
<a href="#"><u>SG9</u></a>	<a href="#"><u>Q8/9</u></a> : The Internet protocol (IP) enabled multimedia applications and services for cable television networks enabled by converged platforms	<a href="#"><u>J.qamip-req</u></a> Requirements on QAM to IP Conversion for IP Multi-Room/House Services
<a href="#"><u>SG11</u></a>	<a href="#"><u>Q14/11</u></a> : Cloud interoperability testing	Q.vs-iop-reqts: Interoperability testing requirements of virtual switch Q.wa-iop: Cloud Interoperability testing about Web Application
<a href="#"><u>SG12</u></a>	<a href="#"><u>Q1/12</u></a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T	
	<a href="#"><u>Q13/12</u></a> : QoE, QoS and performance requirements and assessment methods for multimedia	<a href="#"><u>G.DFS</u></a> QoS and QoE Aspects of Digital Financial Services
<a href="#"><u>SG13</u></a>	<a href="#"><u>Q5/13</u></a> : Applying networks of future and innovation in developing countries	<a href="#"><u>Y.3500-series Supplement 46 (ex Supp-Y.Cloud Computing Scenarios for Developing Countries)</u></a> Scenarios of Implementing Cloud Computing in networks of developing countries
	<a href="#"><u>Q7/13</u></a> : Big data driven networking (bDDN) and deep packet inspection (DPI)	<a href="#"><u>Y.3650 (ex Y.bDDN-fr)</u></a> Framework of big data driven networking; <a href="#"><u>Y.bDDN-MNTMP</u></a> Big data driven mobile network traffic management and planning; <a href="#"><u>Y.bDDN-FunArch</u></a> Functional architecture of big data driven networking; <a href="#"><u>Y.bDDN-req</u></a> Requirement of big data-driven networking; <a href="#"><u>Y.Sup-bDDN-usecase</u></a> Supplement for use cases and application scenarios of big data driven networking
	<a href="#"><u>Q17/13</u></a> : Requirements, ecosystem, and general capabilities for cloud computing and big data	<a href="#"><u>Y.BaaS-reqts</u></a> Cloud computing - Functional requirements for blockchain as a service; <a href="#"><u>Y.bdi-reqts</u></a> Big Data - Overview and functional requirements for data integration;

<b>ITU-D SG1</b>		
<b><u>Question 3/1</u>: Emerging technologies, including cloud computing, m-services, and OTTs: Challenges and opportunities, economic and policy impact for developing countries</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<p><a href="#">Y.bdm-sch</a> Big data - Metadata framework and conceptual model;</p> <p><a href="#">Y.bdp-reqts</a> Big data - Requirements for data provenance;</p> <p><a href="#">Y.cccm-reqts</a> Cloud Computing - Requirements for Containers and Micro-services;</p> <p><a href="#">Y.ccdc-reqts</a> Distributed cloud overview and high-level requirements;</p> <p><a href="#">Y.ccpm-reqts</a> Cloud computing - Functional requirements of physical machine;</p> <p><a href="#">Y.MLaaS-reqts</a> Cloud computing - Functional requirements for machine learning as a service;</p> <p><a href="#">Y.sup.ccsr</a> Supplement on Cloud Computing Standardization Roadmap</p> <p>Y.sup.bdsr2 Supplement on Big Data Standardization Roadmap</p>
	<b>Q18/13</b> : Functional architecture for cloud computing and big data	<p><a href="#">Y.3515 (ex Y.CCNaaS-arch)</a> Cloud computing - Functional architecture of Network as a Service;</p> <p><a href="#">Y.3516 (ex Y.CCIC-arch)</a> Cloud computing - Functional architecture of inter-cloud computing;</p> <p><a href="#">Y.BDaaS-arch</a> Cloud computing - Functional architecture of Big Data as a Service;</p> <p><a href="#">Y.BD-arch</a> Functional architecture of big data;</p> <p><a href="#">Y.dsf-arch</a> Cloud computing - Functional architecture for data storage federation</p>
	<b>Q19/13</b> : End-to-end Cloud computing management, cloud security and big data governance	<p><a href="#">Y.3514</a> Cloud computing - Trusted inter-cloud computing framework and requirements;</p> <p><a href="#">Y.BDDP-reqts</a> Big data - Overview and requirements for data preservation;</p> <p><a href="#">Y.CCICDM-Req</a> Cloud Computing - Requirements for Inter-Cloud Data Management;</p> <p><a href="#">Y.ccm-reqts</a> Cloud computing maturity requirements and framework</p> <p>Y.cslm-metadata: Metadata framework for cloud service lifecycle management</p>
<a href="#">SG15</a>	<b>Q1/15</b> : Coordination of access and home network transport standards	
<a href="#">SG16</a>	<b>Q21/16</b> : Multimedia framework, applications and services	<p><a href="#">F.CCVSReqs</a> Requirements for cloud computing in visual surveillance;</p> <p><a href="#">F.VSBD</a> Requirements for big data application in visual surveillance system;</p> <p><a href="#">H.626.2 (ex H.CSVS-Arch)</a> Architecture for cloud storage in visual surveillance;</p> <p><a href="#">H.VSCC</a> Architecture for cloud computing in visual surveillance</p>



<b>ITU-D SG1</b>		
<b><u>Question 3/1</u>: Emerging technologies, including cloud computing: m-services, and OTTs: Challenges and opportunities, economic and policy impact for developing countries</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG17</u></a>	<a href="#"><u>Q7/17</u></a> : Secure application services	<a href="#"><u>X.srfb</u></a> Security Requirements and Framework for Big Data Analytics in mobile Internet services
	<a href="#"><u>Q8/17</u></a> : Cloud computing security	<a href="#"><u>X.1603 (ex X.dsms)</u></a> Data security requirements for the monitoring service of cloud computing; <a href="#"><u>X.GSBDaaS</u></a> Guidelines on security of Big Data as a Service; <a href="#"><u>X.sgBDIP</u></a> Security Guidelines for Big Data infrastructure and platform; <a href="#"><u>X.sgtBD</u></a> Security guidelines of lifecycle management for telecom Big Data; <a href="#"><u>X.SRIaaS</u></a> Security requirements of public infrastructure as a service (IaaS) in cloud computing; <a href="#"><u>X.SRNaaS</u></a> Security requirements of Network as a Service (NaaS) in cloud computing
	<a href="#"><u>Q13/17</u></a> : Security aspects for Intelligent Transport System	
	<a href="#"><u>Q14/17</u></a> : Security aspects for Distributed Ledger Technologies	

<b>ITU-D SG1</b>		
<b><u>Question 4/1</u>: Economic policies and methods of determining the costs of services related to national telecommunication/ICT networks</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG3</u></a>	<a href="#"><u>Q1/3</u></a> : Development of charging and accounting/settlement mechanisms for international telecommunications services using the next-generation networks (NGNs), future networks, and any possible future development, including adaptation of existing D-series Recommendations to the evolving user needs	<a href="#"><u>D.Framework</u></a> Framework for ICT service delivery with the guaranteed QoS and requested bitrate on fixed & mobile data networks, for development of efficient economic mechanisms and models of interaction in the "operator-provider-user" chain
	<a href="#"><u>Q2/3</u></a> : Development of charging and accounting/settlement mechanisms for international telecommunications services, other than those studied in Question 1/3, including adaptation of existing D-series Recommendations to the evolving user needs	<a href="#"><u>D.Colocation</u></a> Colocation and Access Charges; <a href="#"><u>STUDY COMMAG</u></a> Study of the use of commercial agreements for international telecommunications services arrangements; <a href="#"><u>STUDY DR</u></a> Dispute Resolution Processes (previously "Dispute Resolution Related to Charging and Invoicing")

<b>ITU-D SG1</b>		
<b><u>Question 4/1</u>: Economic policies and methods of determining the costs of services related to national telecommunication/ICT networks</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q3/3</a> : Study of economic and policy factors relevant to the efficient provision of international telecommunication services	<a href="#">D.datatariff</a> Principles for tariff regulation of Data Services; <a href="#">D.IoTpolicy</a> Guidelines on Tariff and regulatory aspects of Internet of Things (IoT); <a href="#">D.Licensing</a> Mechanisms for pricing of licenses for mobile/broadband/fixed; <a href="#">D.SpectrumShare</a> Shared use of spectrum and infrastructure)
	<a href="#">Q4/3</a> : Regional studies for the development of cost models together with related economic and policy issues	<a href="#">STUDY_ROAMREG</a> Regional Roaming Initiatives
	<a href="#">Q6/3</a> : International Internet connectivity including relevant aspects of Internet protocol (IP) peering, regional traffic exchange points, cost of provision of services and impact of transition from Internet protocol version 4 (IPv4) to Internet protocol version 6 (IPv6)	<a href="#">D.50 Supp.3</a> Reducing the cost of the international Internet connectivity of the Central African Backbone (CAB) project, Central African Republic component; <a href="#">D.CostModelIIC</a> Cost model for international internet connectivity; <a href="#">STUDY_IIC</a> International Internet Connectivity, including IP peering, Regional Traffic Exchange Points, and cost of provision of services
	<a href="#">Q7/3</a> : International mobile roaming issues (including charging, accounting and settlement mechanisms and roaming at border areas	<a href="#">D.IoTRoaming</a> Roaming for the Internet of Things (IoT)
	<a href="#">Q10/3</a> : Definition of relevant markets, competition policy and identification of operators with significant market power (SMP) as it relates to the economic aspects of the international telecommunication services and networks	<a href="#">D.DynamicTariff</a> Impact of Dynamic Tariffing on Market Competitiveness
	<a href="#">Q11/3</a> : Economic and policy aspects of big data and digital identity in international telecommunications services and networks	
	<a href="#">Q12/3</a> : Tariffs, Economic and Policy Issues Pertaining to Mobile Financial Services (MFS)	<a href="#">D.MFSCM</a> Mobile Financial Services Transaction Cost Model
	<a href="#">Q13/3</a> : Study of Tariff, Charging Issues of Settlements Agreement of Trans-multi-country Terrestrial Telecommunication Cables	<a href="#">STUDY_TCST</a> Charging and accounting settlements in Trans-multi-country terrestrial cable circuit
<a href="#">SG20</a>	<a href="#">Q2/20</a> : Requirements, capabilities, and use cases across verticals	<a href="#">Y.4118 (ex Y.IoT-AC-reqts)</a> Internet of Things requirements and technical capabilities for support of accounting and charging

<b>ITU-D SG1</b>		
<b><u>Question 5/1: Telecommunications/ICTs for rural and remote areas</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q1/5: Protection of information and communication technology (ICT) infrastructure from electromagnetic surges</u></a>	<a href="#"><u>K.35 Bonding configurations and earthing at remote electronic sites (Completed in 2017)</u></a>
	<a href="#"><u>Q4/5: Electromagnetic compatibility (EMC) issues arising in the telecommunication environment</u></a>	
	<a href="#"><u>Q6/5: Achieving energy efficiency and smart energy</u></a>	<a href="#"><u>L.1220 Innovative energy storage technology for stationary use - Part 1: Overview of energy storage</u></a> <a href="#"><u>L.1221 Innovative energy storage technology for stationary use - Part 2: Battery</u></a> <a href="#"><u>L.1222 Innovative energy storage technology for stationary use - Part 3: Supercapacitor technology</u></a> <a href="#"><u>L.1310 Energy efficiency metrics and measurement methods for telecommunication equipment</u></a> <del><a href="#"><u>L.1350 L.1220: Innovative energy storage technology for stationary use - Part 1: Overview of energy storage</u></a></del> <del><a href="#"><u>L.1221: Innovative energy storage technology for stationary use - Part 2: Battery</u></a></del> <del><a href="#"><u>L.1222: Innovative energy storage technology for stationary use - Part 3: Supercapacitor technology</u></a></del> <del><a href="#"><u>L.1310: Energy efficiency metrics and measurement methods for telecommunication equipment</u></a></del> <del><a href="#"><u>L.1320: Energy efficiency metrics and measurement for power and cooling equipment for telecommunications and data centres</u></a></del> <del><a href="#"><u>L.1350: Energy efficiency metrics of a base station site</u></a></del> <a href="#"><u>Energy efficiency metrics of a base station site</u></a> <a href="#"><u>L.1700: Requirements and framework for low-cost sustainable telecommunications infrastructure for rural communications in developing countries</u></a> <a href="#"><u>L.5G powering Sustainable power feeding solutions for 5G network</u></a> <a href="#"><u>L.SE_BS Smart energy solution for telecom base stations</u></a>
<a href="#"><u>Q7/5: Circular economy including e-waste</u></a>	<a href="#"><u>L.1020: Circular economy: Guide for operators and suppliers on approaches to migrate towards circular ICT goods and networks</u></a> <a href="#"><u>L.1021: Extended producer responsibility - Guidelines for sustainable e-waste management</u></a> <a href="#"><u>L.1030: E-waste management framework for countries</u></a> <a href="#"><u>L.1022 (ex L.CE concepts) Circular Economy: Definitions and concepts for material efficiency for ICT</u></a>	

<b>ITU-D SG1</b>		
<b><u>Question 5/1: Telecommunications/ICTs for rural and remote areas</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<a href="#">L.1032 (ex L.ER) Guidelines and Certification Schemes for e-Waste Recyclers</a> <a href="#">L.methodology_arch Methodology to assess the environmental impact of the different proposed architectures</a>
	<a href="#">Q9/5: Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)</a>	<a href="#">L.1430: Methodology for assessment of the environmental impact of information and communication technology greenhouse gas and energy projects</a> <del><a href="#">L.1501: Best practices on how countries can utilize ICTs to adapt to the effects of climate change</a></del> <a href="#">L.1501: Best practices on how countries can utilize ICTs to adapt to the effects of climate change</a> <a href="#">L.1502: Adapting information and communication technology infrastructure to the effects of climate change</a> <a href="#">L.1504: ICT and adaptation of agriculture to the effects of climate change</a> <a href="#">L.1505: Information and communication technology and adaptation of the fisheries sector to the effects of climate change</a> <a href="#">L.1506: Framework of climate change risk assessment for telecommunication and electrical facilities</a>
<a href="#">SG12</a>	<a href="#">Q1/12: SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T</a>	
<a href="#">SG15</a>	<a href="#">Q1/15: Coordination of access and home network transport standards</a>	
	<a href="#">Q16/15: Optical physical infrastructures</a>	
<a href="#">SG16</a>	<a href="#">Q1/16: Multimedia coordination</a>	
	<a href="#">Q13/16: Multimedia application platforms and end systems for IPTV</a>	
	<a href="#">Q21/16: Multimedia framework, applications and services</a>	<a href="#">HSTP-DIS-UAV</a> Use cases and service scenarios of disaster information service using unmanned aerial vehicles
	<a href="#">Q26/16: Accessibility to multimedia systems and services</a>	
	<a href="#">Q28/16: Multimedia framework for e-health applications</a>	
<a href="#">SG20</a>	<a href="#">Q1/20: End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&amp;C</a>	

<b>ITU-D SG1</b>		
<b><u>Question 5/1</u>: Telecommunications/ICTs for rural and remote areas</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q2/20</a> : Requirements, capabilities, and use cases across verticals	<a href="#">Y.SRC</a> Requirements for deployment of smart services in rural communities
	<a href="#">Q3/20</a> : Architectures, management, protocols and Quality of Service	
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms	
	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions	
	<a href="#">Q6/20</a> : Security, privacy, trust and identification	
	<a href="#">Q7/20</a> : Evaluation and assessment of Smart Sustainable Cities and Communities	

<b>ITU-D SG1</b>		
<b><u>Question 6/1</u>: Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG2</a>	<a href="#">Q1/2</a> : Application of numbering, naming, addressing and identification plans for fixed and mobile telecommunications services	<a href="#">E.164 Supplement 2</a> Number Portability
<a href="#">SG3</a>	<a href="#">Q3/3</a> : Study of economic and policy factors relevant to the efficient provision of international telecommunication services	<a href="#">Study EPQoS</a> Study of economic and policy factors relevant to the efficient provision of international telecommunication services
	<a href="#">Q9/3</a> : Economic and regulatory impact of the Internet, convergence (services or infrastructure) and new services, such as over the top (OTT), on international telecommunication services and networks	<a href="#">D.ConsumerOTT</a> Customer redress mechanism and consumer protection
	<a href="#">Q10/3</a> : Definition of relevant markets, competition policy and identification of operators with significant market power (SMP) as it relates to the economic aspects of the international telecommunication services and networks	<a href="#">D.NumberPort</a> Recommendation ITU-T "Methodological guide for determining the impact of numerical portability on competition"
	<a href="#">Q12/3</a> : Tariffs, Economic and Policy Issues Pertaining to Mobile Financial Services (MFS)	<a href="#">D.ConsumerMFS</a> Consumer Protection in Mobile Financial Services;

<b>ITU-D SG1</b>		
<b>Question 6/1: Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG5</a>	<a href="#">Q7/5: Circular economy including e-waste</a>	<a href="#">L.1000: Universal power adapter and charger solution for mobile terminals and other hand-held ICT devices</a> <a href="#">L.1001: External universal power adapter solutions for stationary information and communication technology devices</a> <a href="#">L.1002: External universal power adapter solutions for portable information and communication technology devices</a> <a href="#">L.1005: Test suites for assessment of the universal charger solution</a> <a href="#">L.1006: Test suites for assessment of the external universal power adapter solutions for stationary information and communication technology devices</a> <a href="#">L.1007: Test suites for assessment of the external universal power adapter solutions for portable information and communication</a> <a href="#">L.1010: Green battery solutions for mobile phones and other hand-held information and communication technology devices</a> <a href="#">L.Counterfeit Adequate Assessment and Sensitisation on Counterfeit ICT Products and their Environmental Impact</a>
<a href="#">SG11</a>	<a href="#">Q15/11: Combating counterfeit and stolen ICT equipment</a>	
<a href="#">SG12</a> and QSDG	<a href="#">Q2/12: Definitions, guides and frameworks related to QoS/QoE</a>	<a href="#">HB-CoCa</a> Handbook on Country Case Studies; <a href="#">HB-Guireg</a> Handbook providing guidance to regulators; <a href="#">P.10/G.100</a> Vocabulary for performance, quality of service and quality of experience
	<a href="#">Q7/12: Methods, tools and test plans for the subjective assessment of speech, audio and audiovisual quality interactions</a>	<a href="#">P.CLN</a> Cultural/language/nationality dependence of subjective quality
	<a href="#">Q12/12: Operational aspects of telecommunication network service quality</a>	<a href="#">E.RQUAL</a> Strategies to Establish Quality Measurement Frameworks; <a href="#">E.NetPerfRank</a> Statistical Framework for QoE Centric Benchmarking Scoring and Ranking; <a href="#">E.831 (ex E.CEMI)</a> Customer experience management index for popular services in operators' network to score service quality that customer experience in terms of key network performance parameters
	<a href="#">Q13/12: QoE, QoS and performance requirements and assessment methods for multimedia</a>	<a href="#">G.1032 (ex G.QoE-gaming)</a> Influence Factors on Gaming Quality of Experience
<a href="#">SG16</a>	<a href="#">Q1/16: Multimedia coordination</a>	

<b>ITU-D SG1</b>		
<b><u>Question 6/1</u>: Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q24/16</a> : Human factors related issues for improvement of the quality of life through international telecommunications	
	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services	
<a href="#">SG17</a>	<a href="#">Q4/17</a> : Cybersecurity	<a href="#">X.1212 (ex X.cogent)</a> Design considerations for improved end-user perception of trustworthiness indicators
<a href="#">SG20</a>	<a href="#">Q1/20</a> : End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&C	
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms	
	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions	
	<a href="#">Q6/20</a> : Security, privacy, trust and identification	

<b>ITU-D SG1</b>		
<b>Question 7/1: Access to telecommunication/ICT services by persons with disabilities and other persons with specific needs</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG5</a>	<a href="#">Q2/5</a> : Equipment resistibility and protective components	
	<a href="#">Q4/5</a> : Electromagnetic compatibility (EMC) issues arising in the telecommunication environment	<a href="#">K.133 (ex K.bwenv)</a> Electromagnetic (EM) environment of body worn equipment in the 2.4 GHz and 13.56MHz industrial, scientific and medical band (Completed in 2017)
<a href="#">SG9</a>	<a href="#">Q6/9</a> : Functional requirements for residential gateway and set-top box for the reception of advanced content distribution services	
<a href="#">SG12</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T	
	<a href="#">Q3/12</a> Speech transmission and audio characteristics of communication terminals for fixed circuit-switched, mobile and packet-switched Internet protocol (IP) networks	<a href="#">P.DHIP</a> Technical requirements and test methods for the digital wired or wireless headset interface of mobile terminals
	<a href="#">Q5/12</a> : Telephonometric methodologies for handset and headset terminals	<a href="#">P.57</a> Artificial ears
	<a href="#">Q6/12</a> Analysis methods using complex measurement signals including their application for speech and audio enhancement techniques	<a href="#">P.50</a> Artificial voices
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination	
	<a href="#">Q24/16</a> : Human factors related issues for improvement of the quality of life through international telecommunications	<a href="#">E.OKID</a> On-screen keyboards for ICT devices; <a href="#">E.FAST</a> User interface for face-to-face speech translation considering human factors
	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services	<a href="#">F.790</a> Telecommunications accessibility guidelines for older persons and persons with disabilities; <a href="#">F.791</a> Accessibility terms and definitions; <a href="#">F.921 (V2)</a> Audio-based network navigation system for persons with vision impairment; <a href="#">F.CVR-PWN</a> Framework of cyber-vulnerability reduction for persons with disabilities and specific needs; <a href="#">F.WAAD</a> Safety requirements for audio augmenting devices; <a href="#">FSTP.ANS</a> Checklist Compliance Protocol and Indicators for Audio-Based Network Navigation System for Persons with Vision Impairment; <a href="#">FSTP.Intl-Relay</a> International Relay Services; <a href="#">FSTP-RCSO</a> Technical paper: Overview of remote captioning services;



<b>ITU-D SG1</b>		
<b><u>Question 7/1</u>: Access to telecommunication/ICT services by persons with disabilities and other persons with specific needs</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<p><a href="#">H.702 (2015) Cor.1</a> Accessibility profiles for IPTV systems: Various corrections and clarifications;</p> <p><a href="#">H.ACC-GAD</a> Guidance on audio descriptions (New) (twin text of ISO/IEC TS 20071-21:2015, Information technology - User interface component accessibility - Part 21);</p> <p><a href="#">H.ACC-GAP</a> Guidance on the audio presentation of text in videos, including captions, subtitles and other on-screen text (New) (twin text of ISO/IEC 20071-25:2017, Information Technology - User interface component accessibility Part 25);</p> <p><a href="#">H.ACC-GVP</a> Guidance on the Visual presentation of audio information, including captions and subtitles (twin text of ISO/IEC DIS 20071-23, Information technology - User Interface component accessibility Part 23);</p> <p><a href="#">H.MD-DiDRR</a> Profile metadata for persons with specific needs as part of disability-inclusive disaster risk reduction;</p> <p><a href="#">HSTP.ACC-SL</a> Production guidelines for sign language service;</p> <p><a href="#">HSTP.ACC-AUD</a> Technical Paper on Methods for improving the intelligibility of audio (or speech)</p>
<a href="#">JCA-AHF</a>	Joint Coordination Activity on Accessibility and Human Factors (JCA-AHF)	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services
<a href="#">SG20</a>	<a href="#">Q1/20</a> : End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&C	
	<a href="#">Q2/20</a> : Requirements, capabilities, and use cases across verticals	<a href="#">Y.Accessibility-IoT</a> Accessibility requirements for the Internet of things applications and services
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms	

<b>ITU-D SG2</b>		
<b><u>Question 1/2</u>: Creating the smart cities and society: Employing ICTs for sustainable social and economic development</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG2</u></a>	<a href="#"><u>Q1/2</u></a> : Application of numbering, naming, addressing and identification plans for fixed and mobile telecommunications services	<a href="#"><u>E.IoT-NNAI</u></a> Internet of Things Naming Numbering Addressing and Identifiers; <a href="#"><u>TR.IoTid</u></a> Technical report on overview of IoT schemes
	<a href="#"><u>Q6/2</u></a> : Management architecture and security	<a href="#"><u>M.somm (ex M.inomsa)</u></a> : Framework of smart operation, management and maintenance
<a href="#"><u>SG3</u></a>	<a href="#"><u>Q3/3</u></a> : Study of economic and policy factors relevant to the efficient provision of international telecommunication services	<a href="#"><u>D.IoTpolicy</u></a> Guidelines on Tariff and regulatory aspects of Internet of Things (IoT)
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q6/5</u></a> : Achieving energy efficiency and smart energy	<a href="#"><u>L.1325 (ex L.Green STND)</u></a> Green ICT solutions for telecom network facilities (Completed in 2016); <a href="#"><u>L.1360 (ex L.EE-ARCH)</u></a> Energy control of SDN architecture (Completed in 2016); <a href="#"><u>L.SE BS</u></a> Smart energy solution for telecom base stations; <a href="#"><u>Suppl. EE for Smart Grid</u></a> Analysis of the energy efficiency of telecommunication services used for the needs of <a href="#"><u>L.1200: Direct current power feeding interface up to 400 V at the input to telecommunication and ICT equipment</u></a> <a href="#"><u>L.1201: Architecture of power feeding systems of up to 400 VDC</u></a> <a href="#"><u>L.1202: Methodologies for evaluating the performance of an up to 400 VDC power feeding system and its environmental impact</u></a> <a href="#"><u>L.1203: Colour and marking identification of up to 400 VDC power distribution for information and communication technology systems</u></a> <a href="#"><u>L.1204: Extended architecture of power feeding systems of up to 400 VDC</u></a> <a href="#"><u>L.1205: Interfacing of renewable energy or distributed power sources to up to 400 VDC power feeding systems</u></a> <a href="#"><u>L.1206: Impact on ICT equipment architecture of multiple AC, -48VDC or up to 400 VDC power inputs</u></a> <a href="#"><u>L.1207: Progressive migration of a telecommunication/information and communication technology site to 400 VDC sources and di smart grid applications</u></a>

<b>ITU-D SG2</b>		
<b><u>Question 1/2</u>: Creating the smart cities and society: Employing ICTs for sustainable social and economic development</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q7/5</a> : Circular economy including e-waste	<p><del><a href="#">L.1020 (ex L.CE ICT) Circular Economy: Guide for Operators and Suppliers on approaches to migrate towards circular ICT goods and networks (Completed in 2017);</a></del></p> <p><a href="#">L.CE Concepts</a> Circular Economy; Definitions and concepts for material efficiency for ICT;–</p> <p><a href="#">L.1020 Circular economy: Guide for operators and suppliers on approaches to migrate towards circular ICT goods and networks</a></p> <p><a href="#">L.1021 Extended producer responsibility - Guidelines for sustainable e-waste management</a></p> <p><a href="#">L.1030 E-waste management framework for countries</a></p> <p><a href="#">L.1032 (ex L.ER) Guidelines and Certification Schemes for e-Waste Recyclers</a></p> <p><del><a href="#">L.methodology arch Methodology to assess the environmental impact of the different proposed architectures</a></del></p> <p><del><a href="#">L.1020: Circular economy: Guide for operators and suppliers on approaches to migrate towards circular ICT goods and networks</a></del></p> <p><del><a href="#">L.1021: Extended producer responsibility — Guidelines for sustainable e waste management</a></del></p> <p><del><a href="#">L.1030: E waste management framework for countries</a></del></p> <p><del><a href="#">L.CE concepts Circular Economy; Definitions and concepts for material efficiency for ICT</a></del></p> <p><del><a href="#">L.ER Guidelines and Certification Schemes for e-Waste Recyclers</a></del></p> <p><del><a href="#">L.methodology arch Methodology to assess the environmental impact of the different proposed architectures</a></del></p>
	<a href="#">Q9/5</a> : Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)	<a href="#">L.1440 ÷Methodology for environmental impact assessment of information and communication technologies at city level</a>
SG11	<a href="#">Q5/11</a> : Protocols and procedures supporting services provided by broadband network gateways	Q.HET-GW : Signalling protocol for Heterogeneous IoT gateways
	<a href="#">Q12/11</a> : Testing of Internet of things, its applications and identification systems	<p>Q.39_FW_Test_ID_IoT: The framework of testing of identification systems used in IoT</p> <p>Q.FW_IoT/Test: Framework for IoT Testing</p> <p>Q.Het_IoT_Gateway_Test: The structure of the testing of heterogeneous Internet of Things gateways in a laboratory environment</p>

<b>ITU-D SG2</b>		
<b><u>Question 1/2</u>: Creating the smart cities and society: Employing ICTs for sustainable social and economic development</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG12</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T	
<a href="#">SG13</a>	<a href="#">Q1/13</a> : Innovative services scenarios, deployment models and migration issues based on Future Networks	<a href="#">Y.farms</a> Framework and application model for risk mitigation service based on networks; <a href="#">Y.sfes</a> Smart Farming Education Service based on u-learning environment; <a href="#">Y.smpp</a> Service model for the pre-production stage on Smart Farming
	<a href="#">Q16/13</a> : Knowledge-centric trustworthy networking and services	<a href="#">Y.STR</a> Socio-technical recommendations for contributing to socio-economic awareness (New)
	<a href="#">Q22/13</a> : Upcoming network technologies for IMT-2020 and Future Networks	<a href="#">Y.SuppICN-PoC-DaaS</a> PoC for IoT Data as a Service using ICN in IMT-2020
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards	
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination	
	<a href="#">Q13/16</a> : Multimedia application platforms and end systems for IPTV	
	<a href="#">Q21/16</a> : Multimedia framework, applications and services	<a href="#">F.745 Amd.1</a> Functional requirements for network-based speech-to-speech translation services: Support of automatic sign language generation; <a href="#">F.746.4 (ex F.DICN-Reqs)</a> Requirements for deployment of information centric networks; <a href="#">F.746.5 (ex H.LLS-FW)</a> Framework for language learning system based on speech/NLP technology; <a href="#">F.747.9 (ex F.EMS-Arch)</a> Requirements and architecture for energy management services; <a href="#">F.CCNMMS</a> Requirements and architecture for CCN-based mobile multimedia services; <a href="#">F.NG-CDN</a> Service Requirements for the next generation content delivery networks
	<a href="#">Q24/16</a> : Human factors related issues for improvement of the quality of life through international telecommunications	<a href="#">E.FAST</a> User interface for face-to-face speech translation considering human factors
	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services	
	<a href="#">Q27/16</a> : Vehicle gateway platform for telecommunication/ITS services and applications	<a href="#">F.749.2 (ex F.VG-REQ)</a> Service requirements for vehicle gateway platforms; <a href="#">F.AUTO-TAX</a> Taxonomy for ICT-enabled motor vehicle automated driving systems; <a href="#">H.550 (ex H.VGP-ARCH)</a> Architecture and functional entities of Vehicle Gateway Platforms;

<b>ITU-D SG2</b>		
<b><u>Question 1/2</u>: Creating the smart cities and society: Employing ICTs for sustainable social and economic development</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<a href="#">HSTP-VG-Gap</a> Technical Paper: Gap Analysis of Vehicle Gateways defined by SDOs
	<a href="#">Q28/16</a> : Multimedia framework for e-health applications	
<a href="#">SG17</a>	<a href="#">Q6/17</a> : Security aspects of telecommunication services, networks and Internet of Things	<p><a href="#">X.1331 (ex X.sgsec-2)</a> Security guidelines for home area network (HAN) devices in smart grid systems;</p> <p><a href="#">X.1361 (ex X.iotsec-2)</a> Security framework for the Internet of things based on the gateway model;</p> <p><a href="#">X.1362 (ex X.iotsec-1)</a> Simple encryption procedure for Internet of things (IoT) environments;</p> <p><a href="#">X.1373 (ex X.itssec-1)</a> Secure software update capability for intelligent transportation system communication devices;</p> <p><a href="#">X.abc-iot</a> Security Framework for Use of Identity-Based Cryptography in Support of IoT Services over Telecom Networks;</p> <p><a href="#">X.iotsec-3</a> Technical framework of PII (Personally Identifiable Information) handling system in IoT environment;</p> <p><a href="#">X.nb-iot</a> Security Requirements and Framework for Narrow Band Internet of Things;</p> <p><a href="#">X.secup-iot</a> Secure Software Update for IoT devices;</p> <p><a href="#">X.sgsec-3</a> Security guidelines for smart metering service in smart grids;</p> <p><a href="#">X.ssp-iot</a> Security Requirements and Framework for IoT Service Platform;</p> <p><a href="#">X.Sup26 Cor.1</a> ITU-T X.1111 - Supplement on security functional architecture for smart grid services using telecommunication networks: Corrigendum 1</p>
	<a href="#">Q11/17</a> : Generic technologies (Directory, public key infrastructure (PKI), privilege management infrastructure (PMI), Abstract Syntax Notation One (ASN.1), object identifiers (OIDs)) to support secure applications	<p><a href="#">X.orf-gs</a> OID-based resolution framework for IoT group services;</p> <p><a href="#">X.sup31 (ex X.sup-oid-iot)</a> Supplement 31 to ITU-T X-series Recommendations - ITU-T X.660 Guidelines for using object identifiers for the Internet of things</p>
	<a href="#">Q13/17</a> : Security aspects for Intelligent Transport System	<p><a href="#">X.itssec-2</a> Security guidelines for V2X communication systems;</p> <p><a href="#">X.itssec-3</a> Security requirements for vehicle accessible external devices;</p> <p><a href="#">X.itssec-4</a> Methodologies for intrusion detection system on in-vehicle systems;</p> <p><a href="#">X.itssec-5</a> Security guidelines for vehicular edge computing;</p>

<b>ITU-D SG2</b>		
<b><u>Question 1/2</u>: Creating the smart cities and society: Employing ICTs for sustainable social and economic development</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<p><a href="#">X.mdcv</a> Security-related misbehaviour detection mechanism based on big data analysis for connected vehicles;</p> <p><a href="#">X.stcv</a> Security threats in connected vehicles</p>
<a href="#">SG20</a>	<p><a href="#">Q1/20</a>: End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&amp;C</p>	<p><a href="#">Y.4200 (ex Y.SSCP, Y.SCP)</a> Requirements for interoperability of smart city platforms;</p> <p><a href="#">Y.4201 (ex Y.frame-scc)</a> High-level requirements and reference framework of smart city platform;</p> <p><a href="#">Y.4454 (ex Y.SC-platform)</a> Platforms interoperability for smart cities;</p> <p><a href="#">Y.infra</a> Overview of city infrastructure;</p> <p><a href="#">Y.ism-ssc</a> Technical framework for integrated sensing and management system;</p> <p><a href="#">Y.isw-ssc</a> The Integrated Sensor Web Resource Metadata for Smart Sustainable Cities;</p> <p><a href="#">Y.SC-OpenData</a> Framework of Open Data in Smart Cities;</p> <p><a href="#">Y.Suppl.45 to ITU-T Y.4000 series (ex Y.SC-Overview)</a> An overview of smart cities and communities and the role of information and communication technologies</p>
	<p><a href="#">Q2/20</a>: Requirements, capabilities, and use cases across verticals</p>	<p><a href="#">Supp.-Y.IoT Scenarios for Developing Countries</a> Scenarios of Implementing Internet of Things in networks of developing countries;</p> <p><a href="#">Supp.-Y.IoT-Use-Cases</a> IoT Use Cases;</p> <p><a href="#">Y.4101/Y.2067</a> Common requirements and capabilities of a gateway for Internet of Things applications;</p> <p><a href="#">Y.4114 (ex Y.IoT-BigData-reqts)</a> Specific requirements and capabilities of the IoT for Big Data;</p> <p><a href="#">Y.4116 (ex Y.TPS-req)</a> Requirements of transportation safety service including use cases and service scenarios;</p> <p><a href="#">Y.4117 (ex Y.IoT-WDS-Reqts)</a> Requirements and capabilities of Internet of Things for support of wearable devices and related services;</p> <p><a href="#">Y.4119 (ex Y.AERS-reqts)</a> Requirements and capability framework for IoT-based automotive emergency response system;</p> <p><a href="#">Y.4118 (ex Y.IoT-AC-reqts)</a> Internet of Things requirements and technical capabilities for support of accounting and charging;</p> <p><a href="#">Y.Accessibility-IoT</a> Accessibility requirements for the Internet of things applications and services;</p> <p><a href="#">Y.IoT-BPM-reqts-caps</a> Specific Requirements and Capabilities of the Internet of Things for Business Process Management;</p>

<b>ITU-D SG2</b>		
<b><u>Question 1/2</u>: Creating the smart cities and society: Employing ICTs for sustainable social and economic development</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<p><a href="#">Y.IoT-EC-reqts</a> IoT requirements for edge computing;</p> <p><a href="#">Y.IoT-GP-Reqts</a> Requirements for an IoT enabled network to support applications for global processes of the earth;</p> <p><a href="#">Y.IoT-ITS-framework</a> Framework of Cooperative Intelligent Transport Systems based on the Internet of Things;</p> <p><a href="#">Y.IoT-UAS-Reqts</a> Use cases, requirements and capabilities of unmanned aircraft systems for Internet of Things;</p> <p><a href="#">Y.SCC-Use-Cases</a> Use Cases of Smart Cities and Communities;</p> <p><a href="#">Y.SmartMan-IIoT-overview</a> Overview of smart manufacturing in the context of Industrial Internet of Things;</p> <p><a href="#">Y.SRC</a> Requirements for deployment of smart services in rural communities</p>
	<a href="#">Q3/20</a> : Architectures, management, protocols and Quality of Service	<p><a href="#">Supp-Y.IPv6-IoT</a> IPv6 Potential for the Internet of Things and Smart Cities;</p> <p><a href="#">Y.4115 (ex Y.IoT-DE-RA)</a> Reference architecture for IoT device capabilities exposure;</p> <p><a href="#">Y.4500.1 (ex Y.oneM2M.ARC)</a> oneM2M- Series of Working items (24 items);</p> <p><a href="#">Y.gw-IoT-arch</a> Functional architecture of gateway for Internet of things applications;</p> <p><a href="#">Y.IoT-rmc</a> Reference architecture of accessing IoT resources for management and control;</p> <p><a href="#">Y.IoT-son</a> Framework of self-organization network in the IoT environments;</p> <p><a href="#">Y.NGNe-IoT-arch</a> Architecture of the Internet of Things based on NGNe;</p> <p><a href="#">Y.SSC-AISE-arc</a> Reference architecture of artificial intelligence service exposure for smart sustainable cities</p>
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms	<p><a href="#">Y.4456 (ex Y.SPL)</a> Requirements and Functional Architecture for Smart Parking Lot in Smart City;</p> <p><a href="#">Y.del-fw</a> Framework of delegation service for the IoT devices;</p> <p><a href="#">Y.energy-mMG</a> Application model for energy services on multiple microgrids;</p> <p><a href="#">Y.IoT-LISF</a> Lightweight intelligent software framework for IoT devices;</p> <p><a href="#">Y.IoT-SQ-fns</a> Service Functionalities of Self-quantification over Internet of things;</p> <p><a href="#">Y.ISG-fr</a> Framework of Smart Greenhouse Service;</p>

<b>ITU-D SG2</b>		
<b><u>Question 1/2</u>: Creating the smart cities and society: Employing ICTs for sustainable social and economic development</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<p><a href="#">Y.SC-Residential</a> Requirements and Reference Architecture of Smart Residential Communities;</p> <p><a href="#">Y.smart-evacuation</a> Framework of Smart Evacuation during emergencies in Smart Cities and Communities;</p> <p><a href="#">Y.social-device</a> Framework of the social device networking;</p> <p><a href="#">Y.SSL</a> Requirements and Reference Framework for Smart Street Light;</p> <p><a href="#">Y.STD</a> Functional Architecture for Management to Smart Tourist Destinations;</p> <p><a href="#">Y.TPS-afw</a> Architectural framework for providing transportation safety service;</p> <p><a href="#">Y.WoO-hn</a> Architecture of web of objects based virtual home network</p>
	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions	<p><a href="#">Suppl. Y. MEDT</a> Methodology for Building Sustainable Capabilities during Enterprises' Digital Transformation;</p> <p><a href="#">TR.AI4IoT (ex Y.AI4SC)</a> Artificial Intelligence and Internet of Things;</p> <p><a href="#">Y.CrowdSystems (ex Y Req-Arch-CS)</a> Requirements and Functional Architecture of IoT-related Crowdsourced Systems;</p> <p><a href="#">Y.HEP</a> Framework for Home Environment Profiles and Levels of IoT Systems;</p> <p><a href="#">Y.SCC-Terms</a> Vocabulary for Smart Cities and Communities</p>
	<a href="#">Q6/20</a> : Security, privacy, trust and identification	<a href="#">Y.4805 (ex Y.SC-Interop)</a> Identifier service requirements for the interoperability of Smart City applications
	<a href="#">Q7/20</a> : Evaluation and assessment of Smart Sustainable Cities and Communities	<p><a href="#">Y.AFDTs</a> Assessment Framework for Digital Transformation of Sectors in Smart Cities;</p> <p><a href="#">Y.ODI</a> Open Data Indicator in smart cities;</p> <p><a href="#">Y.SSC-IA</a> Smart Sustainable City Impact Assessment;</p> <p><a href="#">Y.SSC-MM</a> Smart Sustainable Cities Maturity Model</p>
<a href="#">JCA-IoT and SC&amp;C</a>	Joint Coordination Activity on Internet of Things and Smart Cities and Communities (JCA-IoT and SC&C)	<a href="#">D.2r16 - IoT and SC&amp;C standards roadmap</a>



<b>ITU-D SG2</b>		
<b><u>Question 2/2: Telecommunications/ICTs for eHealth</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG5</a>	<a href="#">Q4/5</a> : Electromagnetic compatibility (EMC) issues arising in the telecommunication environment	<a href="#">K.133 (ex K.bwenv)</a> Electromagnetic (EM) environment of body worn equipment in the 2.4 GHz and 13.56MHz industrial, scientific and medical band (Completed in 2017)
<a href="#">SG11</a>	<a href="#">Q1/11</a> : Signalling and protocol architectures in emerging telecommunication environments and guidelines for implementations	
<a href="#">SG12</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T	
<a href="#">SG13</a>	<a href="#">Q2/13</a> : Next-generation network (NGN) evolution with innovative technologies including software-defined networking (SDN) and network function virtualization (NFV)	
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards	
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination	
	<a href="#">Q28/16</a> : Multimedia framework for e-health applications	<a href="#">F.MCDC (ex H.OPVQ)</a> Framework for in-flight and post-flight precautionary continuous monitoring for communicable disease control; <a href="#">F.Med-UHD</a> Framework for telemedicine systems using ultra-high definition imaging; <a href="#">F.Med-VHN</a> Framework of Telemedicine Service based on Virtual Hospital Network; <a href="#">F.SLD</a> Guidelines for safe listening devices/systems; <a href="#">FTSP.EH-DEV</a> Issues list for enhancing accessibility to e-health services and applications in developing countries; <a href="#">H.810 (V4)</a> , <a href="#">H.811</a> , <a href="#">H.812</a> , <a href="#">H.813</a> Interoperability design guidelines for personal connected health systems
<a href="#">SG17</a>	<a href="#">Q9/17</a> : Telebiometrics	<a href="#">X.1080.1 rev</a> e-Health and world-wide telemedicines - Generic telecommunication protocol
<a href="#">SG20</a>	<a href="#">Q2/20</a> : Requirements, capabilities, and use cases across verticals	<a href="#">Y.4117 (ex Y.IoT-WDS-Reqts)</a> Requirements and capabilities of Internet of Things for support of wearable devices and related services
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms	<a href="#">Y.IoT-SQ-fns</a> Service Functionalities of Self-quantification over Internet of things
	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions	

<b>ITU-D SG2</b>		
<b><u>Question 2/2: Telecommunications/ICTs for eHealth</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q7/20</a> : Evaluation and assessment of Smart Sustainable Cities and Communities	<a href="#">Y.IoT-EH-PFE</a> Performance evaluation frameworks of e-health systems in the IoT

<b>ITU-D SG2</b>		
<b><u>Question 3/2: Securing information and communication networks: Best practices for developing a culture of cybersecurity</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG9</a>	<a href="#">Q2/9</a> : Methods and practices for conditional access, protection against unauthorized copying and against unauthorized redistribution ("redistribution control" for digital cable television distribution to the home)	<a href="#">J.dcas-oneway</a> Downloadable Conditional Access System for One-Way TV Networks
<a href="#">SG11</a>	<a href="#">Q2/11</a> : Signalling requirements and protocols for services and applications in emerging telecommunication environments	<a href="#">Q.SR-Trust</a> Signalling requirements and architecture for interconnection between trustable network entities
<a href="#">SG13</a>	<a href="#">Q16/13</a> : Knowledge-centric trustworthy networking and services	<a href="#">Y.3051 (ex Y.trusted-env)</a> The basic principles of trusted environment in ICT infrastructure; <a href="#">Y.3052 (ex Y.trust-provision)</a> Overview of trust provisioning for ICT infrastructures and services; <a href="#">Y.trust-index</a> Trust index for ICT infrastructures and services
	<a href="#">Q19/13</a> : End-to-end Cloud computing management, cloud security and big data governance	<a href="#">Y.3514 (ex Y.CCTIC)</a> Cloud computing - Trusted inter-cloud computing framework and requirements; <a href="#">Y.BDDP-reqts</a> Big data - Overview and requirements for data preservation; <a href="#">Y.CCICTM</a> Cloud Computing - Overview of Inter-Cloud Trust Management <a href="#">Y.CCICDM-Req</a> Cloud Computing - Requirements for Inter-Cloud Data Management
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards	
<a href="#">SG16</a>	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services	<a href="#">F.CVR-PWN</a> Framework of cyber-vulnerability reduction for persons with disabilities and specific needs
<a href="#">SG17</a>	<a href="#">Q1/17</a> : Telecommunication/ICT security coordination	<a href="#">Security Roadmap</a> ICT security standards roadmap; <a href="#">Security Compendium</a> Security compendium; <a href="#">Security Manual</a> Security in Telecommunications and Information Technology, 7th edition; <a href="#">X.TRsuss-rev</a> Technical Report on Successful use of security standards

<b>ITU-D SG2</b>		
<b><u>Question 3/2</u>: Securing information and communication networks: Best practices for developing a culture of cybersecurity</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q2/17</a> : Security architecture and framework	<p><a href="#">X.1040 (ex X.salcm)</a> Security reference architecture for lifecycle management of e-commerce business data;</p> <p><a href="#">X.1041 (ex X.volTEsec-1)</a> Security framework for voice-over-long-term-evolution (VoLTE) network operation;</p> <p><a href="#">X.sdnsec-3</a> Security guideline of Service Function Chain based on software defined network;</p> <p><a href="#">X.SDSec</a> Guideline on Software-defined Security in SDN (Software-defined Networking)/NFV (Network Fuction Virtualization) Network;</p> <p><a href="#">X.srnv</a> Security Requirements of Network Virtualization;</p> <p><a href="#">X.ssc</a> Security Service Chain Architecture;</p> <p><a href="#">X.sup30 (ex X.sup-sgmvno)</a> Supplement 30 to ITU-T X-series Recommendations - ITU-T X.805 Security guidelines for mobile virtual network operators</p>
	<a href="#">Q3/17</a> : Telecommunication information security management	<p><a href="#">X.1051 (2016) Cor1</a> Information technology - Security techniques - Code of practice for Information security controls based on ISO/IEC 27002 for telecommunications organizations - Corrigendum 1;</p> <p><a href="#">X.1052-rev</a> Organization information security management guideline;</p> <p><a href="#">X.1053 (ex X.sgsn)</a> Code of practice for information security controls based on ITU-T X.1051 for small and medium-sized telecommunication organizations;</p> <p><a href="#">X.1054-rev</a> Information technology - Security techniques - Governance of information security;</p> <p><a href="#">X.1058 (ex X.gpim)</a> Information technology - Security techniques - Code of practice for Personally Identifiable Information protection;</p> <p><a href="#">X.cins</a> Information technology - Security techniques - Guidelines for Cyber Insurance;</p> <p><a href="#">X.framcdc</a> Framework for the creation and operation of a Cyber Defence Center;</p> <p><a href="#">X.Sup32 (ex X.sup-gpim)</a> ITU-T X.1058 - Code of practice for personally identifiable information protection for telecommunications organizations;</p> <p><a href="#">X.sup-myuc</a> Code of practice for information security control base on ITU-T X.1051 for Malaysian telecommunications organizations information and network security management</p>
	<a href="#">Q4/17</a> : Cybersecurity	<p><a href="#">X.1213 (ex X.sbb)</a> Security capability requirements for countering smartphone-based botnets;</p> <p><a href="#">X.1214 (ex X.samtn)</a> Security assessment techniques in telecommunication/ICT networks;</p>

<b>ITU-D SG2</b>		
<b><u>Question 3/2</u>: Securing information and communication networks: Best practices for developing a culture of cybersecurity</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<p><a href="#">X.1500 Amd.11</a>, <a href="#">X.1500 App.I (2011) Amd.12</a>            Overview of cybersecurity information exchange – Amendments 11 and 12;  <a href="#">X.fgati</a> Framework and Guidelines for Applying Threat Intelligence in Telecom Network Operation;  <a href="#">X.gcpie</a> Guidelines for Collection and Preservation of Cyber Security Incident Evidence;  <a href="#">X.metric</a> Metrics for evaluating threat and resilience in cyberspace;  <a href="#">X.ucstix</a> Use Cases for Structured Threat Information Expression (STIX™)</p>
	<a href="#">Q5/17</a> : Countering spam by technical means	<p><a href="#">X.1248 (ex X.cspim)</a> Technical requirements for countering instant messaging spam;  <a href="#">X.1249 (ex X.tfcma)</a> Technical framework for countering mobile in-application advertising spam;  <a href="#">X.gcims</a> Guidelines for countering instant messaging spam;  <a href="#">X.sup29 (ex X.sup-gcspi)</a> Supplement 29 to ITU-T X-series Recommendations - ITU-T X.1242 Guidelines on countermeasures against short message service (SMS) phishing and smishing attacks;  <a href="#">X.sup-ctss</a> Supplement to ITU-T X.1231 Technical framework for countering telephone service scam;  <a href="#">X.tecwes</a> Technologies in countering website spoofing for telecommunication organizations;  <a href="#">X.tfcas</a> Technical framework for countering advertising spam in user generated information;  <a href="#">X.tsfpp</a> Technical security framework for the protection of users' personal information while countering mobile messaging spam</p>
	<a href="#">Q6/17</a> : Security aspects of telecommunication services, networks and Internet of Things	<p><a href="#">X.5Gsec-q</a> Security guidelines for applying quantum-safe algorithms in 5G systems;  <a href="#">X.1126 (ex X.msec-11)</a> Guidelines on mitigating the negative effects of infected terminals in mobile networks;  <a href="#">X.sdnsec-1</a> Security services using the software-defined networking;  <a href="#">X.1331 (ex X.sgsec-2)</a> Security guidelines for home area network (HAN) devices in smart grid systems;  <a href="#">X.1361 (ex X.iiotsec-2)</a> Security framework for the Internet of things based on the gateway model;  <a href="#">X.1362 (ex X.iiotsec-1)</a> Simple encryption procedure for Internet of things (IoT) environments;  <a href="#">X.1373 (ex X.itssec-1)</a> Secure software update capability for intelligent transportation system communication devices;</p>

<b>ITU-D SG2</b>		
<b><u>Question 3/2</u>: Securing information and communication networks: Best practices for developing a culture of cybersecurity</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<p><a href="#">X.abc-iot</a> Security Framework for Use of Identity-Based Cryptography in Support of IoT Services over Telecom Networks;</p> <p><a href="#">X.iotsec-3</a> Technical framework of PII (Personally Identifiable Information) handling system in IoT environment;</p> <p><a href="#">X.nb-iot</a> Security Requirements and Framework for Narrow Band Internet of Things;</p> <p><a href="#">X.secup-iot</a> Secure Software Update for IoT devices;</p> <p><a href="#">X.sgsec-3</a> Security guidelines for smart metering service in smart grids;</p> <p><a href="#">X.ssp-iot</a> Security Requirements and Framework for IoT Service Platform;</p> <p><a href="#">X.Sup26 Cor.1</a> ITU-T X.1111 - Supplement on security functional architecture for smart grid services using telecommunication networks: Corrigendum 1</p>
	<a href="#">Q7/17</a> : Secure application services	<p><a href="#">X.1145 (ex X.websec-6)</a> Security framework and requirements for open capabilities of telecommunication services;</p> <p><a href="#">X.1146 (ex X.websec-8)</a> Secure protection guidelines for value-added services provided by telecommunication operators;</p> <p><a href="#">X.sfop</a> Security framework of open platform for FinTech services;</p> <p><a href="#">X.sgos</a> Security guidelines of Web-based online customer service;</p> <p><a href="#">X.tfss</a> Technical Framework for Security Services Provided by Operators;</p> <p><a href="#">X.srfb</a> Security Requirements and Framework for Big Data Analytics in mobile Internet services</p>
	<a href="#">Q8/17</a> : Cloud computing security	<p><a href="#">X.1603 (ex X.dsms)</a> Data security requirements for the monitoring service of cloud computing;</p> <p><a href="#">X.GSBDaaS</a> Guidelines on security of Big Data as a Service;</p> <p><a href="#">X.sgBDIP</a> Security Guidelines for Big Data infrastructure and platform;</p> <p><a href="#">X.sgtBD</a> Security guidelines of lifecycle management for telecom Big Data;</p> <p><a href="#">X.SRIaaS</a> Security requirements of public infrastructure as a service (IaaS) in cloud computing;</p> <p><a href="#">X.SRNaaS</a> Security requirements of Network as a Service (NaaS) in cloud computing</p>
	<a href="#">Q9/17</a> : Telebiometrics	<p><a href="#">X.1080.0 (2017) Cor.1</a> Access control for telebiometrics data protection: Corrigendum 1;</p> <p><a href="#">X.1080.1</a> - <a href="#">X.1080.6</a> Telebiometrics related to;</p> <p><a href="#">X.tab</a> Telebiometric authentication using bio-signals;</p>

<b>ITU-D SG2</b>		
<b><u>Question 3/2</u>: Securing information and communication networks: Best practices for developing a culture of cybersecurity</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<a href="#">X.tac</a> Telebiometric access control with smart ID card; <a href="#">X.tas</a> Telebiometric authentication using speaker recognition
	<a href="#">Q10/17</a> : Identity management architecture and mechanisms	<a href="#">X.eaasd</a> Framework of enhanced authentication in telebiometric environments using anti-spoofing detection mechanisms
	<a href="#">Q11/17</a> : Generic technologies (Directory, public key infrastructure (PKI), privilege management infrastructure (PMI), Abstract Syntax Notation One (ASN.1), object identifiers (OIDs)) to support secure applications	<a href="#">X.500-series-rev</a> Edition 9 of the X.500 Series; <a href="#">X.cms-prof</a> Cryptographic Message Syntax (CMS) Profile; <a href="#">X.orf-gs</a> OID-based resolution framework for IoT group services; <a href="#">X.sup31 (ex X.sup-oid-iot)</a> Supplement 31 to ITU-T X-series Recommendations - ITU-T X.660 Guidelines for using object identifiers for the Internet of things;
	<a href="#">Q13/17</a> : Security aspects for Intelligent Transport System	<a href="#">X.itssec-2</a> Security guidelines for V2X communication systems; <a href="#">X.itssec-3</a> Security requirements for vehicle accessible external devices; <a href="#">X.itssec-4</a> Methodologies for intrusion detection system on in-vehicle systems; <a href="#">X.itssec-5</a> Security guidelines for vehicular edge computing; <a href="#">X.mdcv</a> Security-related misbehaviour detection mechanism based on big data analysis for connected vehicles; <a href="#">X.stcv</a> Security threats in connected vehicles
	<a href="#">Q14/17</a> : Security aspects for Distributed Ledger Technologies	
<a href="#">SG20</a>	<a href="#">Q3/20</a> : Architectures, management, protocols and Quality of Service	<a href="#">Y.oneM2M.SEC.SOL</a> oneM2M-TS 0003 Security Solutions
	<a href="#">Q6/20</a> : Security, privacy, trust and identification	<a href="#">Y.4806 (ex Y.IoT-sec-safety)</a> Security capabilities supporting safety of the Internet of Things; <a href="#">Y.IoT-IoD-PT</a> Identity of IoT devices, which is based on secure procedures and ensures privacy and trust of the used IoT systems; <a href="#">Y.LPWA</a> Security, interoperability and identification aspects for Low Power Wide Area (LPWA) systems; <a href="#">Y.IoT-Interop</a> An Interoperability framework for IoT

<b>ITU-D SG2</b>		
<b>Question 4/2: Assistance to developing countries for implementing conformance and interoperability (C&amp;I) programmes and combating counterfeit ICT equipment and theft of mobile devices</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG2</u></a>	<a href="#"><u>Q1/2</u></a> : Application of numbering, naming, addressing and identification plans for fixed and mobile telecommunications services	<a href="#"><u>E.A-N/GoC</u></a> Administrative procedures for ENUM for E.164 country codes and associated ICs for networks and GICs for groups of countries; <a href="#"><u>E.156</u></a> Guidelines for ITU-T action on reported misuse of E.164 number resources
	<a href="#"><u>Q7/2</u></a> : Interface specifications and specification methodology	<a href="#"><u>X.781</u></a> : Requirements and guidelines for Implementation Conformance Statements proformas associated with CORBA-based systems. <a href="#"><u>X.783</u></a> : Guidelines for implementation conformance statement proformas associated with web services-based management systems <a href="#"><u>X.784</u></a> : Guidelines for implementation conformance statements proformas associated with SNMP-based management systems M.3170.4: Multi-technology network management: Conformance testing specification
<a href="#"><u>SG3</u></a>	<a href="#"><u>Q12/3</u></a> : Tariffs, Economic and Policy Issues Pertaining to Mobile Financial Services (MFS)	<a href="#"><u>D.InteropCompetition</u></a> Interoperability for Competition in Mobile Financial Services
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q2/5</u></a> : Equipment resistibility and protective components	
	<a href="#"><u>Q3/5</u></a> : Human exposure to electromagnetic fields (EMFs) from information and communication technologies (ICTs)	
	<a href="#"><u>Q4/5</u></a> : Electromagnetic compatibility (EMC) issues arising in the telecommunication environment	

<b>ITU-D SG2</b>		
<b>Question 4/2: Assistance to developing countries for implementing conformance and interoperability (C&amp;I) programmes and combating counterfeit ICT equipment and theft of mobile devices</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<p><a href="#">Q7/5: Circular economy including e-waste</a>  <a href="#">Q6/5: Achieving energy efficiency and smart energy</a></p>	<p><a href="#">L.1000 Universal power adapter and charger solution for mobile terminals and other hand-held ICT devices</a>  <a href="#">L.1001 External universal power adapter solutions for stationary information and communication technology devices</a>  <a href="#">L.1002 External universal power adapter solutions for portable information and communication technology devices</a>  <a href="#">L.1005 Test suites for assessment of the universal charger solution</a>  <a href="#">L.1006 Test suites for assessment of the external universal power adapter solutions for stationary information and communication technology devices</a>  <a href="#">L.1007 Test suites for assessment of the external universal power adapter solutions for portable information and communication</a>  <a href="#">L.1010 Green battery solutions for mobile phones and other hand-held information and communication technology devices</a>  <a href="#">L.Counterfeit Adequate Assessment and Sensitisation on Counterfeit ICT Products and their Environmental Impact</a>  <del><a href="#">L.1000: Universal power adapter and charger solution for mobile terminals and other hand-held ICT devices</a></del>  <del><a href="#">L.1001: External universal power adapter solutions for stationary information and communication technology devices</a></del>  <del><a href="#">L.1002: External universal power adapter solutions for portable information and communication technology devices</a></del>  <del><a href="#">L.1005: Test suites for assessment of the universal charger solution</a></del>  <del><a href="#">L.1006: Test suites for assessment of the external universal power adapter solutions for stationary information and communication technology devices</a></del>  <del><a href="#">L.1007: Test suites for assessment of the external universal power adapter solutions for portable information and communication</a></del>  <del><a href="#">L.1010: Green battery solutions for mobile phones and other hand-held information and communication technology devices</a></del>  <del><a href="#">L.Counterfeit Adequate Assessment and Sensitisation on Counterfeit ICT Products and their Environmental Impact</a></del></p>



<b>ITU-D SG2</b>		
<b>Question 4/2: Assistance to developing countries for implementing conformance and interoperability (C&amp;I) programmes and combating counterfeit ICT equipment and theft of mobile devices</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q9/5</a> : Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)	
<a href="#">SG11</a>	<a href="#">Q9/11</a> : Service and networks benchmark testing, remote testing including Internet related performance measurements	<a href="#">Q.3961 (ex Q.TM Int sp test)</a> Testing methodologies of Internet related performance measurements including e2e bit rate within the fixed and mobile operator's networks; <a href="#">Q.SP-RT-NP</a> Signalling procedures for controlling probes used for remote testing of network parameters
	<a href="#">Q10/11</a> : Testing of emerging IMT-2020 technologies	<a href="#">Q.SDN-CT</a> Framework of SDN controller testing;
	<a href="#">Q11/11</a> : Protocols and networks test specifications; frameworks and methodologies	<a href="#">Q.4013.1 v.1 SI IBCF TS Part1</a> Testing of the IBCF requirements; (3GPP Release 12); Part 1: Protocol Implementation Conformance Statement (PICS); <a href="#">Q.4013.2 v.1 SI IBCF TS Part2</a> Core Network and Interoperability Testing (INT); Testing of the IBCF requirements; (3GPP Release 10); Part 2: Test Suite Structure and Test Purposes (TSS&TP); <a href="#">Q.4014.2 v.1 SI IAD TS Part2 (ex Q.39 SI IAD TS Part2 v.1 [3GPP Release 10])</a> PSTN/ISDN terminal equipment using IP Multimedia core network subsystem; Conformance testing; Part 2: TSS&TP; <a href="#">Q.TI-TEST</a> Framework of model network for Tactile Internet testing
	<a href="#">Q12/11</a> : Testing of Internet of things, its applications and identification systems	<a href="#">Q.39 FW Test ID IoT</a> The framework of testing of identification systems used in IoT; <a href="#">Q.FW IoT/Test</a> Framework for IoT Testing; <a href="#">Q.Het IoT Gateway Test</a> The structure of the testing of heterogeneous Internet of Things gateways in a laboratory environment
	<a href="#">Q13/11</a> : Monitoring parameters for protocols used in emerging networks, including cloud computing and software-defined networking/network function virtualization (SDN/NFV)	<a href="#">Q.SQM</a> Signalling requirements and architecture for the Internet service quality monitoring system Q.BNGP: Set of parameters of vBNG for monitoring
	<a href="#">Q14/11</a> : Cloud interoperability testing	<a href="#">Q.wa-iop</a> Cloud Interoperability testing about Web Application Q.vs-iop-reqts: Interoperability testing requirements of virtual switch

<b>ITU-D SG2</b>		
<b><u>Question 4/2</u>: Assistance to developing countries for implementing conformance and interoperability (C&amp;I) programmes and combating counterfeit ICT equipment and theft of mobile devices</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	<a href="#">Q15/11</a> : Combating counterfeit and stolen ICT equipment	<a href="#">Q.FW_CCF</a> Framework for solution to combat counterfeit ICT Devices; <a href="#">Q.FW_CSM</a> Framework for Combating the use of Stolen Mobile ICT Devices; <a href="#">TR-BP_CF</a> Technical Report - Guidelines on Best Practice and Solutions for Combating Counterfeit ICT Devices; <a href="#">TR-Uni_Id (ex TR-Sub_Una)</a> Technical Report on use of anti-counterfeiting technical solutions relying on unique and persistent mobile device identifiers
<a href="#">SG12</a>	<a href="#">Q3/12</a> Speech transmission and audio characteristics of communication terminals for fixed circuit-switched, mobile and packet-switched Internet protocol (IP) networks	<a href="#">P.DHIP</a> Technical requirements and test methods for the digital wired or wireless headset interface of mobile terminals
<a href="#">SG16</a>	<a href="#">Q13/16</a> : Multimedia application platforms and end systems for IPTV	<a href="#">HSTP.CONF-H764</a> Conformance testing specification for H.764
	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services	<a href="#">HSTP.CONF-H702</a> Conformance testing specification for ITU-T H.702
	<a href="#">Q28/16</a> : Multimedia framework for e-health applications	<a href="#">H.821</a> Conformance of ITU-T H.810 personal health system: Healthcare information system interface; <a href="#">H.830.1-12</a> Conformance of ITU-T H.810 personal health system: Services interface Part 1-12; <a href="#">H.840</a> - <a href="#">H.850</a> Conformance of ITU-T H.810 personal health system: Personal Health Devices interface
<a href="#">SG17</a>	<a href="#">Q6/17</a> : Security aspects of telecommunication services, networks and Internet of Things	<a href="#">X.1127 (ex X.msec-9)</a> Functional security requirements and architecture for mobile phone anti-theft measures
<a href="#">SG20</a>	<a href="#">Q6/20</a> : Security, privacy, trust and identification	<a href="#">Y.IoT-DA-Counterfeit</a> Information Management Digital Architecture to combat counterfeiting in IoT

<b>ITU-D SG2</b>		
<b><u>Question 5/2</u>: Utilizing telecommunications/ICTs for disaster risk reduction and management</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG2</a>	<a href="#">Q3/2</a> : Service and operational aspects of telecommunications, including service definition	<a href="#">E.119 (ex E.rdr-scbm)</a> Requirements for safety confirmation and broadcast message service for disaster relief;

<b>ITU-D SG2</b>		
<b><u>Question 5/2: Utilizing telecommunications/ICTs for disaster risk reduction and management</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<a href="#">E.sup.fdr</a> Framework of disaster management for disaster relief system; <a href="#">E.TD-DR</a> Terms and definitions for DR&NRR
<a href="#">SG5</a>	<a href="#">Q6/5</a> : Achieving energy efficiency and smart energy	<a href="#">L.1507 (ex. L.SES)</a> Use of ICT sites to support environmental sensing
	<a href="#">Q9/5</a> : Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)	<a href="#">L.1500: Framework for information and communication technologies and adaptation to the effects of climate change</a> <a href="#">L.1501: Best practices on how countries can utilize ICTs to adapt to the effects of climate change</a> <a href="#">L.1502: Adapting information and communication technology infrastructure to the effects of climate change</a> <a href="#">L.1503: Use of information and communication technology for climate change adaptation in cities</a> <a href="#">L.1504: ICT and adaptation of agriculture to the effects of climate change</a> <a href="#">L.1505: Information and communication technology and adaptation of the fisheries sector to the effects of climate change</a> <a href="#">L.1506: Framework of climate change risk assessment for telecommunication and electrical facilities</a>
<a href="#">SG9</a>	<a href="#">Q8/9</a> : The Internet protocol (IP) enabled multimedia applications and services for cable television networks enabled by converged platforms	
<a href="#">SG11</a>	<a href="#">Q3/11</a> : Signalling requirements and protocols for emergency telecommunications	<a href="#">Q.ETN-DS</a> Signalling architecture of the fast deployment emergency telecommunication network to be used in a natural disaster; <a href="#">Q.suppl.Multi Device ETS</a> Signalling requirements for VoLTE-based network and GSM/UMTS network supporting Multi-device emergency telecommunications service; <a href="#">Q.Suppl.VoLTE ETS Interconnection</a> Signalling requirements for interconnection between VoLTE-based network and other networks supporting emergency telecommunications service (ETS)
<a href="#">SG12</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T	
	<a href="#">Q4/12</a> Objective methods for speech and audio evaluation in vehicles	<a href="#">P.1140</a> Speech Quality Requirements for Emergency Calls
<a href="#">SG13</a>	<a href="#">Q2/13</a> : Next-generation network (NGN) evolution with innovative technologies including software-defined networking	

<b>ITU-D SG2</b>		
<b><u>Question 5/2</u>: Utilizing telecommunications/ICTs for disaster risk reduction and management</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
	(SDN) and network function virtualization (NFV)	
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards	
	<a href="#">Q16/15</a> : Optical physical infrastructures	
	<a href="#">Q17/15</a> : Maintenance and operation of optical fibre cable networks	<a href="#">L.300series.Sup.35 (ex L.300series.Sup.nrr-frm)</a> Framework of disaster management for network resilience and recovery
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination	
	<a href="#">Q8/16</a> : Immersive live experience systems and services	<a href="#">H.ILE-SS</a> Service scenario of ILE <a href="#">H.ILE-MMT</a> Service configuration, media transport protocols, signalling information of MMT for Immersive Live Experience systems
	<a href="#">Q11/16</a> : Multimedia systems, terminals, gateways and data conferencing	
	<a href="#">Q14/16</a> : Digital signage systems and services	<a href="#">H.DS-ASM</a> Digital signage: Metadata for alerting services; <a href="#">H.DS-CASF</a> Digital signage: Common alerting service framework; <a href="#">H.785.0</a> Digital signage: Requirements for disaster information services
	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services	<a href="#">H.MD-DiDRR</a> Profile metadata for persons with specific needs as part of disability-inclusive disaster risk reduction
<a href="#">SG17</a>	<a href="#">Q4/17</a> : Cybersecurity	
<a href="#">SG20</a>	<a href="#">Q2/20</a> : Requirements, capabilities, and use cases across verticals	<a href="#">Y.4119 (ex Y.AERS-reqts)</a> Requirements and capability framework for IoT-based automotive emergency response system
	<a href="#">Q3/20</a> : Architectures, management, protocols and Quality of Service	<a href="#">Y.AERS-msd</a> Minimum set of data structure for automotive emergency response system; <a href="#">Y.AERS-mtp</a> Minimum set of data transfer protocol for automotive emergency response system;
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms	<a href="#">Y.disaster_notification</a> Framework of the disaster notification of the population in Smart Cities and Communities; <a href="#">Y.smart-evacuation</a> Framework of Smart Evacuation during emergencies in Smart Cities and Communities

<b>ITU-D SG2</b>		
<b><u>Question 6/2: ICTs and the environment</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q6/5</u></a> : Achieving energy efficiency and smart energy	<p><a href="#"><u>L.1220 Innovative energy storage technology for stationary use - Part 1: Overview of energy storage</u></a></p> <p><a href="#"><u>L.1221 Innovative energy storage technology for stationary use - Part 2: Battery</u></a></p> <p><a href="#"><u>L.1222 Innovative energy storage technology for stationary use - Part 3: Supercapacitor technology</u></a></p> <p><del><a href="#"><u>L.1220: Innovative energy storage technology for stationary use - Part 1: Overview of energy storage</u></a></del></p> <p><del><a href="#"><u>L.1221: Innovative energy storage technology for stationary use - Part 2: Battery</u></a></del></p> <p><del><a href="#"><u>L.1222: Innovative energy storage technology for stationary use - Part 3: Supercapacitor technology</u></a></del></p> <p><a href="#"><u>L.1300: Best practices for green data centres</u></a></p> <p><a href="#"><u>L.1301: Minimum data set and communication interface requirements for data centre energy management</u></a></p> <p><a href="#"><u>L.1302: Assessment of energy efficiency on infrastructure in data centres and telecom centres</u></a></p> <p><a href="#"><u>L.1303: Functional requirements and framework of green data centre energy-saving management system</u></a></p> <p><a href="#"><u>L.1310: Energy efficiency metrics and measurement methods for telecommunication equipment</u></a></p> <p><a href="#"><u>L.1320: Energy efficiency metrics and measurement for power and cooling equipment for telecommunications and data centres</u></a></p> <p><a href="#"><u>L.1350: Energy efficiency metrics of a base station site</u></a></p> <p><a href="#"><u>L.1700: Requirements and framework for low-cost sustainable telecommunications infrastructure for rural communications in developing countries</u></a></p> <p><del><a href="#"><u>L.5G powering Sustainable power feeding solutions for 5G network</u></a></del></p> <p><del><a href="#"><u>L.SE BS Smart energy solution for telecom base stations</u></a></del><del><a href="#"><u>L.5G powering Sustainable power feeding solutions for 5G network</u></a></del></p> <p><del><a href="#"><u>L.SE BS Smart energy solution for telecom base stations</u></a></del></p> <p><a href="#"><u>L.1325 (ex L.Green STNI) Green ICT solutions for telecom network facilities (Completed in 2016)</u></a><del><a href="#"><u>L.1325 (ex L.Green STNI) Green ICT solutions for telecom network facilities;</u></a></del></p> <p><del><a href="#"><u>L.1507 (ex. L.SES) Use of ICT sites to support environmental sensing</u></a></del><del><a href="#"><u>L.SES Use of ICT sites to support environmental sensing;</u></a></del></p> <p><del><a href="#"><u>L.Suppl.-Green ICT SLQ</u></a></del> <a href="#"><u>Green ICT standards landscape questionnaires;</u></a></p>

<b>ITU-D SG2</b>		
<b><u>Question 6/2: ICTs and the environment</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<a href="#">L.Suppl.BP_EF</a> A Guideline on best practices and environment friendly policies for effective ICT deployment methods
	<a href="#">Q7/5</a> : Circular economy including e-waste	<p><a href="#">L.1020 (ex L.CE ICT)</a> Circular Economy: Guide for Operators and Suppliers on approaches to migrate towards circular ICT goods and networks (Completed in 2017);</p> <p><a href="#">L.1021 (ex L.EPR)</a> Extended producer responsibility - Guidelines for sustainable e-waste management (Completed in 2017);</p> <p><a href="#">L.1030 (ex L.EWFrame)</a> E- Waste management framework for countries;</p> <p><a href="#">L.ARCH_EoL_CE</a> Environmental Impact of architecture solutions with regards to End of Life and Circular Economy (CE);</p> <p><a href="#">L.BP</a> Best practices on e-waste management;</p> <p><a href="#">L.1022 (ex L.CE Concepts)</a> Circular Economy; Definitions and concepts for material efficiency for ICT;</p> <p><a href="#">L.CEML.1015</a> Criteria for evaluation of the environmental impact of mobile phones;</p> <p><a href="#">L.1032 (ex.L.ER)</a> Guidelines and <del>Ae</del>accreditation-Certification Schemes for e- Waste Recyclers;</p> <p><a href="#">L.1031</a> ÷ <u>Guideline on implementing the e-waste reduction target of the Connect 2020 Agenda</u><del>L.EW2020 Connect 2020 agenda E-Waste-reduction</del>;</p> <p><a href="#">L.methodology_arch</a> Methodology to assess the environmental impact of the different proposed architectures;</p> <p><a href="#">L.SEEQ</a> Effect for global ICT of the potential of selling Services instead of Equipment on the waste creation and environmental impacts;</p> <p><a href="#">Suppl. L.BM</a> Supplement on Collection of sustainable models for e-waste management by private corporations</p>
	<a href="#">Q8/5</a> : Guides and terminology on environment and climate change	<p><a href="#">Terminology Handbook</a> Extension of the Terminology Handbook to cover relevant L-series terminologies;</p> <p><a href="#">Terminology Handbook - web version</a> Web version of the Terminology Handbook</p>
	<a href="#">Q9/5</a> : Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)	<p><a href="#">L.1450 (ex L.MAE)</a> Methodologies for the assessment of the environmental impact of the information and communication technology sector;</p> <p><a href="#">L.1460 (ex L.Connect2020 framework)</a> Connect 2020 greenhouse gases emissions – Guidelines;</p> <p><a href="#">L.1505 (ex L.ICT and FA)</a> Information and communication technology and adaptation of the</p>

<b>ITU-D SG2</b>		
<b><u>Question 6/2: ICTs and the environment</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<p>fisheries sector to the effects of climate change (Completed in 2017);</p> <p><a href="#">L.1506 (ex L.CCRisk)</a> Framework of climate change risk assessment for telecommunication and electrical facilities (Completed in 2017);</p> <p><a href="#">L.DATA</a> Guidelines for an ITU Database on GHG emissions;</p> <p><a href="#">L.methodology RM</a> Methodology for helping ICT organizations to assess the impact on rare metals from their operation;</p> <p><a href="#">L.MAAP</a> Methodology for assessing the aggregated positive sector-level impacts of ICT in other sectors;</p> <p><a href="#">L.microgrid assesement</a> Impact assessment of energy services on multiple microgrids</p>
<a href="#">SG20</a>	<a href="#">Q2/20</a> : Requirements, capabilities, and use cases across verticals	<p><a href="#">Y.IoT-GP-Reqts</a> Requirements for an IoT enabled network to support applications for global processes of the earth;</p> <p><a href="#">Y.SEM</a> Requirements and capability framework of Smart Environmental Monitoring</p>
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms	<a href="#">Y.ISG-fr</a> <a href="#">Y.ISG-fr</a> Framework of Smart Greenhouse Service
	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions	

<b>ITU-D SG2</b>		
<b><u>Question 7/2: Strategies and policies concerning human exposure to electromagnetic fields</u></b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
<a href="#">SG5</a>	<a href="#">Q3/5</a> : Human exposure to electromagnetic fields (EMFs) from information and communication technologies (ICTs)	<p><a href="#">K.52</a> Guidance on complying with limits for human exposure to electromagnetic fields (Completed in 2017);</p> <p><a href="#">K.61</a> Guidance on measurement and numerical prediction of electromagnetic fields for compliance with human exposure limits for telecommunication installations (Completed in 2017);</p> <p><a href="#">K.70</a> Mitigation techniques to limit human exposure to EMFs in the vicinity of radiocommunication stations (Completed in 2017);</p> <p><a href="#">K.91</a> Guidance for assessment, evaluation and monitoring of human exposure to radio frequency electromagnetic fields (Completed in 2017);</p> <p><a href="#">K.100</a> Measurement of radio frequency electromagnetic fields to determine compliance with human exposure limits when a base station is put into service(Completed in 2017);</p>

<b>ITU-D SG2</b>		
<b><u>Question 7/2</u>: Strategies and policies concerning human exposure to electromagnetic fields</b>		
<b>ITU-T SG</b>	<b>ITU-T Question</b>	<b>Work items</b>
		<a href="#">K.121</a> Guidance on the environmental management for compliance with radio frequency EMF limits for radiocommunication base stations; <a href="#">K.Suppl.16</a> (ex. <a href="#">K.Supp-5G EMF Compliance</a> ) Electromagnetic field (EMF) compliance assessments for 5G wireless networks; <a href="#">K.Suppl.13</a> (ex. <a href="#">K.BPrac</a> ) Best Practices of the use of mobile devices for exposure reduction
<a href="#">SG20</a>	<a href="#">Q2/20</a> : Requirements, capabilities, and use cases across verticals	







		ITU-D SG 1							ITU-D SG 2						
		<u>Q1/1</u>	<u>Q2/1</u>	<u>Q3/1</u>	<u>Q4/1</u>	<u>Q5/1</u>	<u>Q6/1</u>	<u>Q7/1</u>	<u>Q1/2</u>	<u>Q2/2</u>	<u>Q3/2</u>	<u>Q4/2</u>	<u>Q5/2</u>	<u>Q6/2</u>	<u>Q7/2</u>
ITU-T SG11	<u>Q1/11</u>	X													
	<u>Q2/11</u>	X									X				
	<u>Q3/11</u>												X		
	<u>Q4/11</u>	X													
	<u>Q5/11</u>	X							X						
	<u>Q6/11</u>	X													
	<u>Q7/11</u>	X													
	<u>Q8/11</u>	X													
	<u>Q9/11</u>	X											X		
	<u>Q10/11</u>	X											X		
	<u>Q11/11</u>												X		
	<u>Q12/11</u>									X			X		
	<u>Q13/11</u>									X			X		
	<u>Q14/11</u>	X		X									X		
	<u>Q15/11</u>												X		





		ITU-D SG 1							ITU-D SG 2						
		<u>Q1/1</u>	<u>Q2/1</u>	<u>Q3/1</u>	<u>Q4/1</u>	<u>Q5/1</u>	<u>Q6/1</u>	<u>Q7/1</u>	<u>Q1/2</u>	<u>Q2/2</u>	<u>Q3/2</u>	<u>Q4/2</u>	<u>Q5/2</u>	<u>Q6/2</u>	<u>Q7/2</u>
ITU-T SG15	<u>Q1/15</u>	X		X		X			X	X	X		X		
	<u>Q2/15</u>	X													
	<u>Q4/15</u>	X													
	<u>Q11/15</u>	X													
	<u>Q12/15</u>	X													
	<u>Q14/15</u>														
	<u>Q15/15</u>														
	<u>Q16/15</u>	X				X							X		
	<u>Q17/15</u>												X		
	<u>Q18/15</u>	X													
	<u>Q19/15</u>														
ITU-T SG16	<u>Q1/16</u>														
	<u>Q8/16</u>		X										X		
	<u>Q11/16</u>														
	<u>Q13/16</u>	X	X									X			
	<u>Q14/16</u>												X		
	<u>Q21/16</u>	X	X	X		X			X						
	<u>Q24/16</u>							X	X						
	<u>Q26/16</u>		X					X			X	X	X		
	<u>Q27/16</u>								X						
	<u>Q28/16</u>									X		X			

		ITU-D SG 1							ITU-D SG 2						
		<u>Q1/1</u>	<u>Q2/1</u>	<u>Q3/1</u>	<u>Q4/1</u>	<u>Q5/1</u>	<u>Q6/1</u>	<u>Q7/1</u>	<u>Q1/2</u>	<u>Q2/2</u>	<u>Q3/2</u>	<u>Q4/2</u>	<u>Q5/2</u>	<u>Q6/2</u>	<u>Q7/2</u>
ITU-T SG17	<u>Q1/17</u>										X				
	<u>Q2/17</u>	X									X				
	<u>Q3/17</u>										X				
	<u>Q4/17</u>						X				X				
	<u>Q5/17</u>										X				
	<u>Q6/17</u>	X	X						X		X	X			
	<u>Q7/17</u>	X	X	X							X				
	<u>Q8/17</u>			X							X				
	<u>Q9/17</u>									X	X				
	<u>Q10/17</u>										X				
	<u>Q11/17</u>	X							X		X				
	<u>Q13/17</u>			X					X		X				
	<u>Q14/17</u>			X							X				
	ITU-T SG20	<u>Q1/20</u>								X					
<u>Q2/20</u>		X			X	X		X	X			X	X		
<u>Q3/20</u>		X							X		X		X		
<u>Q4/20</u>									X	X			X	X	
<u>Q5/20</u>									X						
<u>Q6/20</u>									X		X	X			
<u>Q7/20</u>									X	X					

**Table 3 – List of ITU-T Questions which could be related to ITU-D Questions even in the absence of relevant ITU-T working items**

<b>ITU-D SG1</b>	
<b><u>Question 1/1: Strategies and policies for the deployment of broadband in developing countries</u></b>	
<b>ITU-T SG</b>	<b>ITU-T Question</b>
<a href="#"><u>SG2</u></a>	<a href="#"><u>Q2/2</u></a> : Routing and interworking plan for fixed and mobile networks
	<a href="#"><u>Q3/2</u></a> : Service and operational aspects of telecommunications, including service definition
	<a href="#"><u>Q5/2</u></a> : Requirements, priorities and planning for telecommunication management and operation, administration and maintenance (OAM) Recommendations
	<a href="#"><u>Q6/2</u></a> : Management architecture and security
<a href="#"><u>SG3</u></a>	<a href="#"><u>Q2/3</u></a> : Development of charging and accounting/settlement mechanisms for international telecommunications services, other than those studied in Question 1/3, including adaptation of existing D-series Recommendations to the evolving user needs
	<a href="#"><u>Q4/3</u></a> : Regional studies for the development of cost models together with related economic and policy issues
	<a href="#"><u>Q10/3</u></a> : Definition of relevant markets, competition policy and identification of operators with significant market power (SMP) as it relates to the economic aspects of the international telecommunication
	<a href="#"><u>Q11/3</u></a> : Economic and policy aspects of big data and digital identity in international telecommunications services and networks
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q6/5</u></a> : <a href="#"><u>Achieving energy efficiency and smart energy</u></a>
	<a href="#"><u>Q7/5</u></a> : <a href="#"><u>Circular economy including e-waste</u></a>
	<a href="#"><u>Q9/5</u></a> : <a href="#"><u>Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)</u></a>
<a href="#"><u>SG9</u></a>	<a href="#"><u>Q4/9</u></a> : Guidelines for implementations and deployment of transmission of multichannel digital television signals over optical access networks
	<a href="#"><u>Q5/9</u></a> : Software components application programming interfaces (APIs), frameworks and overall software architecture for advanced content distribution services within the scope of Study Group 9
	<a href="#"><u>Q8/9</u></a> : The Internet protocol (IP) enabled multimedia applications and services for cable television networks enabled by converged platforms
	<a href="#"><u>Q9/9</u></a> : Requirements, methods, and interfaces of the advanced service platforms to enhance the delivery of sound, television, and other multimedia interactive services over cable television network
<a href="#"><u>SG11</u></a>	<a href="#"><u>Q4/11</u></a> : Protocols for control, management and orchestration of network resources
	<a href="#"><u>Q5/11</u></a> : Protocols and procedures supporting services provided by broadband network gateways
	<a href="#"><u>Q10/11</u></a> : Testing of emerging IMT-2020 technologies
	<a href="#"><u>Q11/11</u></a> : Protocols and networks test specifications; frameworks and methodologies



<b>ITU-D SG1</b>	
<b><u>Question 1/1: Strategies and policies for the deployment of broadband in developing countries</u></b>	
	Q13/11: Monitoring parameters for protocols used in emerging networks, including cloud computing and software-defined networking/network function virtualization (SDN/NFV)
	<a href="#">Q14/11</a> : Cloud interoperability testing
	<a href="#">Q15/11</a> : Combating counterfeit and stolen ICT equipment
<a href="#">SG12</a> <a href="#">QSDG</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T
	<a href="#">Q9/12</a> : Perceptual-based objective methods for voice, audio and visual quality measurements in telecommunication services
	<a href="#">Q14/12</a> : Development of models & tools for multimedia quality assessment of packet-based video
	<a href="#">Q17/12</a> : Performance of packet-based networks and other networking technologies
<a href="#">SG13</a>	<a href="#">Q5/13</a> : Applying networks of future and innovation in developing countries
	<a href="#">Q7/13</a> : Big data driven networking (bDDN) and Deep packet inspection (DPI)
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards
	<a href="#">Q2/15</a> : Optical systems for fibre access networks
	<a href="#">Q4/15</a> : Broadband access over metallic conductors
	<a href="#">Q16/15</a> : Optical physical infrastructures
	<a href="#">Q18/15</a> : Broadband in-premises networking
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination
	<a href="#">Q11/16</a> : Multimedia systems, terminals, gateways and data conferencing
<a href="#">SG20</a>	<a href="#">Q1/20</a> : End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&C
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms
	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions
	<a href="#">Q6/20</a> : Security, privacy, trust and identification
	<a href="#">Q7/20</a> : Evaluation and assessment of Smart Sustainable Cities and Communities

<b>ITU-D SG1</b>	
<b><u>Question 2/1: Strategies, policies, regulations and methods of migration and adoption of digital broadcasting and implementation of new services</u></b>	
<a href="#">SG2</a>	<a href="#">Q3/2</a> : Service and operational aspects of telecommunications, including service definition
SG11	Q12/11: Testing of Internet of things, its applications and identification systems
	Q14:/11: Cloud interoperability testing

<b>ITU-D SG1</b>	
<b><u>Question 1/1</u>: Strategies and policies for the deployment of broadband in developing countries</b>	
<a href="#"><u>SG12</u></a>	<a href="#"><u>Q1/12</u></a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T
	<a href="#"><u>Q9/12</u></a> : Operational aspects of telecommunication network service quality
	<a href="#"><u>Q14/12</u></a> : Development of models and tools for multimedia quality assessment of packet-based video services
<a href="#"><u>SG16</u></a>	<a href="#"><u>Q1/16</u></a> : Multimedia coordination

<b>ITU-D SG1</b>	
<b><u>Question 3/1</u>: Emerging technologies, including cloud computing: m-services, and OTTs: Challenges and opportunities, economic and policy impact for developing countries</b>	
<a href="#"><u>SG2</u></a>	<a href="#"><u>Q1/2</u></a> : Application of numbering, naming, addressing and identification plans for fixed and mobile telecommunications services
	<a href="#"><u>Q3/2</u></a> : Service and operational aspects of telecommunications, including service definition
	<a href="#"><u>Q5/2</u></a> : Requirements, priorities and planning for telecommunication management and operation, administration and maintenance (OAM) Recommendations
	<a href="#"><u>Q7/2</u></a> : Interface specifications and specification methodology
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q6/5</u></a> : Achieving energy efficiency and smart energy
	<a href="#"><u>Q7/5</u></a> : <a href="#"><u>Circular economy including e-waste</u></a>
<a href="#"><u>SG12</u></a>	<a href="#"><u>Q1/12</u></a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T
<a href="#"><u>SG13</u></a>	<a href="#"><u>Q1/13</u></a> : Innovative services scenarios, deployment models and migration issues based on Future Networks
<a href="#"><u>SG15</u></a>	<a href="#"><u>Q1/15</u></a> : Coordination of access and home network transport standards
<a href="#"><u>SG20</u></a>	<a href="#"><u>Q1/20</u></a> : End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&C
	<a href="#"><u>Q7/20</u></a> : Evaluation and assessment of Smart Sustainable Cities and Communities

<b>ITU-D SG1</b>	
<b><u>Question 4/1</u>: Economic policies and methods of determining the costs of services related to national telecommunication/ICT networks</b>	
<a href="#"><u>SG3</u></a>	<a href="#"><u>Q11/3</u></a> : Economic and policy aspects of big data and digital identity in international telecommunications services and networks

<b>ITU-D SG1</b>	
<b><u>Question 5/1</u>: Telecommunications/ICTs for rural and remote areas</b>	

**ITU-D SG1**

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

<a href="#">SG3</a>	<a href="#">Q1/3</a> : Development of charging and accounting/settlement mechanisms for international telecommunications services using the next-generation networks (NGNs), future networks, and any possible future development, including adaptation of existing D-series Recommendations to the evolving user needs
<a href="#">SG5</a>	<a href="#">Q12/5</a> : <a href="#">Protection of information and communication technology (ICT) infrastructure from electromagnetic surges</a> <del>Equipment resistibility and protective components</del>
	<a href="#">Q4/5</a> : Electromagnetic compatibility (EMC) issues arising in the telecommunication environment
	<a href="#">Q6/5</a> : Achieving energy efficiency and smart energy
	<a href="#">Q7/5</a> : Circular economy including e-waste
	<a href="#">Q9/5</a> : Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)
SG11	<a href="#">Q9/11</a> : Service and networks benchmark testing, remote testing including Internet related performance measurements
	<a href="#">Q12/11</a> : Testing of Internet of things, its applications and identification systems
	<a href="#">Q13/11</a> : Monitoring parameters for protocols used in emerging networks, including cloud computing and software-defined networking/network function virtualization (SDN/NFV)
	<a href="#">Q14/11</a> : Cloud interoperability testing
<a href="#">SG12</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T
	<a href="#">Q2/12</a> : Definitions, guides and frameworks related to QoS/QoE
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards
	<a href="#">Q16/15</a> : Optical physical infrastructures
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination
	<a href="#">Q13/16</a> : Multimedia application platforms and end systems for IPTV
	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services
	<a href="#">Q28/16</a> : Multimedia framework for e-health applications
<a href="#">SG20</a>	<a href="#">Q1/20</a> : End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&C
	<a href="#">Q3/20</a> : Architectures, management, protocols and Quality of Service
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms
	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions
	<a href="#">Q6/20</a> : Security, privacy, trust and identification
	<a href="#">Q7/20</a> : Evaluation and assessment of Smart Sustainable Cities and Communities

**ITU-D SG1**

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

**ITU-D SG1**

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

<a href="#">SG3</a>	<a href="#">Q7/3</a> : International mobile roaming issues (including charging, accounting and settlement mechanisms and roaming at border areas)
	<a href="#">Q8/3</a> : Alternative calling procedures and misappropriation and misuse of facilities and services including calling line identification (CLI), calling party number delivery (CPND) and origin identification (OI)
	<a href="#">Q11/3</a> : Economic and policy aspects of big data and digital identity in international telecommunications services and networks
<a href="#">SG5</a>	<a href="#">Q7/5</a> : Circular economy including e-waste
<a href="#">SG11</a>	<a href="#">Q15/11</a> : Combating counterfeit and stolen ICT equipment
<a href="#">SG12</a> and <a href="#">QSDG</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination
	<a href="#">Q24/16</a> : Human factors related issues for improvement of the quality of life through international telecommunications
	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services
<a href="#">SG20</a>	<a href="#">Q1/20</a> : End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&C
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms
	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions
	<a href="#">Q6/20</a> : Security, privacy, trust and identification

**ITU-D SG1**

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

<a href="#">SG5</a>	<a href="#">Q2/5</a> : Equipment resistibility and protective components
	<a href="#">Q4/5</a> : <a href="#">Electromagnetic compatibility (EMC) issues arising in the telecommunication environment</a> <a href="#">Q6/5</a> : <del>Achieving energy efficiency and smart energy</del>
<a href="#">SG9</a>	<a href="#">Q6/9</a> : Functional requirements for residential gateway and set-top box for the reception of advanced content distribution services
<a href="#">SG12</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T
	<a href="#">Q2/12</a> : Definitions, guides and frameworks related to QoS/QoE
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination

**ITU-D SG1**

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

<a href="#">SG20</a>	<a href="#">Q1/20</a> : End to end connectivity, networks, interoperability, infrastructures and Big Data aspects related to IoT and SC&C
	<a href="#">Q4/20</a> : e/Smart services, applications and supporting platforms

**ITU-D SG2**

**Question 1/2: Creating the smart cities and society: Employing ICTs for sustainable social and economic development**

<a href="#">SG2</a>	<a href="#">Q6/2</a> : Management architecture and security
<a href="#">SG5</a>	<a href="#">Q6/5</a> : <a href="#">Achieving energy efficiency and smart energy</a> <a href="#">Q7/5</a> : Circular economy including e-waste <a href="#">Q9/5</a> : Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)
SG11	<a href="#">Q5/11</a> : Protocols and procedures supporting services provided by broadband network gateways
	<a href="#">Q9/11</a> : Service and networks benchmark testing, remote testing including Internet related performance measurements
	<a href="#">Q10/11</a> : Testing of emerging IMT-2020 technologies
	<a href="#">Q11/11</a> : Protocols and networks test specifications; frameworks and methodologies
	<a href="#">Q13/11</a> : Monitoring parameters for protocols used in emerging networks, including cloud computing and software-defined networking/network function virtualization (SDN/NFV)
	<a href="#">Q14/11</a> : Cloud interoperability testing <a href="#">Q15/11</a> : Combating counterfeit and stolen ICT equipment
<a href="#">SG12</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T
	<a href="#">Q2/12</a> : Definitions, guides and frameworks related to QoS/QoE
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination
	<a href="#">Q13/16</a> : Multimedia application platforms and end systems for IPTV
	<a href="#">Q26/16</a> : Accessibility to multimedia systems and services
	<a href="#">Q28/16</a> : Multimedia framework for e-health applications

**ITU-D SG2**

**Question 2/2: Telecommunications/ICTs for eHealth**

<a href="#">SG5</a>	<a href="#">Q4/5</a> : <a href="#">Electromagnetic compatibility (EMC) issues arising in the telecommunication environment</a>
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<b>ITU-D SG1</b>	
<b><u>Question 1/1: Strategies and policies for the deployment of broadband in developing countries</u></b>	
<a href="#">SG11</a>	<a href="#">Q1/11</a> : Signalling and protocol architectures in emerging telecommunication environments and guidelines for implementations
<a href="#">SG12</a>	<a href="#">Q1/12</a> : SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T
	<a href="#">Q2/12</a> : Definitions, guides and frameworks related to QoS/QoE
<a href="#">SG13</a>	<a href="#">Q2/13</a> : Next-generation network (NGN) evolution with innovative technologies including software-defined networking (SDN) and network function virtualization (NFV)
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards
<a href="#">SG16</a>	<a href="#">Q1/16</a> : Multimedia coordination
<a href="#">SG20</a>	<a href="#">Q5/20</a> : Research and emerging technologies, terminology and definitions

<b>ITU-D SG2</b>	
<b><u>Question 3/2: Securing information and communication networks: Best practices for developing a culture of cybersecurity</u></b>	
<a href="#">SG2</a>	<a href="#">Q6/2</a> : Management architecture and security
<a href="#">SG11</a>	<a href="#">Q2/11</a> : Signalling requirements and protocols for services and applications in emerging telecommunication environments
<a href="#">SG15</a>	<a href="#">Q1/15</a> : Coordination of access and home network transport standards

<b>ITU-D SG2</b>	
<b><u>Question 4/2: Assistance to developing countries for implementing conformance and interoperability (C&amp;I) programmes and combating counterfeit ICT equipment and theft of mobile devices</u></b>	
<a href="#">SG2</a>	<a href="#">Q3/2</a> : Service and operational aspects of telecommunications, including service definition
	<a href="#">Q7/2</a> : Interface specifications and specification methodology
<a href="#">SG5</a>	<a href="#">Q2/5</a> : Equipment resistibility and protective components
	<a href="#">Q3/5</a> : Human exposure to electromagnetic fields (EMFs) from information and communication technologies (ICTs)
	<a href="#">Q4/5</a> : Electromagnetic compatibility (EMC) issues arising in the telecommunication environment
	<a href="#">Q7/5</a> : <a href="#">Circular economy including e-waste</a> <a href="#">Q6/5: Achieving energy efficiency and smart energy</a>
	<a href="#">Q9/5</a> : <a href="#">Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)</a> <del><a href="#">Q9/5: Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)</a></del>

<b>ITU-D SG1</b>	
<b><u>Question 1/1</u>: Strategies and policies for the deployment of broadband in developing countries</b>	
<b>ITU-D SG2</b>	
<b><u>Question 5/2</u>: Utilizing telecommunications/ICTs for disaster risk reduction and management</b>	
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q6/5: Achieving energy efficiency and smart energy</u></a> <a href="#"><u>Q9/5: Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)</u></a>
<a href="#"><u>SG9</u></a>	<a href="#"><u>Q8/9: The Internet protocol (IP) enabled multimedia applications and services for cable television networks enabled by converged platforms</u></a>
<a href="#"><u>SG12</u></a>	<a href="#"><u>Q1/12: SG12 work programme and quality of service/quality of experience (QoS/QoE) coordination in ITU-T</u></a> <a href="#"><u>Q2/12: Definitions, guides and frameworks related to QoS/QoE</u></a>
<a href="#"><u>SG13</u></a>	<a href="#"><u>Q2/13: Next-generation network (NGN) evolution with innovative technologies including software-defined networking (SDN) and network function virtualization (NFV)</u></a>
<a href="#"><u>SG15</u></a>	<a href="#"><u>Q1/15: Coordination of access and home network transport standards</u></a> <a href="#"><u>Q16/15: Optical physical infrastructures</u></a>
<a href="#"><u>SG16</u></a>	<a href="#"><u>Q1/16: Multimedia coordination</u></a> <a href="#"><u>Q11/16: Multimedia systems, terminals, gateways and data conferencing</u></a>
<a href="#"><u>SG17</u></a>	<a href="#"><u>Q4/17: Cybersecurity</u></a>

<b>ITU-D SG2</b>	
<b><u>Question 6/2</u>: ICTs and the environment</b>	
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q6/5: Achieving energy efficiency and smart energy</u></a> <a href="#"><u>Q7/5: Circular economy including e-waste</u></a> <a href="#"><u>Q8/5: Guides and terminology on environment and climate change</u></a> <a href="#"><u>Q9/5: Climate change and assessment of information and communication technology (ICT) in the framework of the Sustainable Development Goals (SDGs)</u></a>
<a href="#"><u>SG20</u></a>	<a href="#"><u>Q5/20: Research and emerging technologies, terminology and definitions</u></a>

<b>ITU-D SG2</b>	
<b><u>Question 7/2</u>: Strategies and policies concerning human exposure to electromagnetic fields</b>	
<a href="#"><u>SG5</u></a>	<a href="#"><u>Q3/5: Human exposure to electromagnetic fields (EMFs) from information and communication technologies (ICTs)</u></a>

**ITU-D SG1**

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

SG20

Q2/20: Requirements, capabilities, and use cases across verticals

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