



ITU-D Study Questions:
The roadmap to **wtdc17**

Partnership Dialogue

*ITU, Geneva, Switzerland
30th September 2016*

Roxanne Webber
Chairman ITU-D Study Group 1

ITU-D SG: Overview



- ✓ **Knowledge platform**: Study Group outputs provide guidance for implementation of policies, strategies, projects and specific telecommunication/ ICT initiatives in Member States and help strengthen the shared knowledge base.
- ✓ **Information exchange**: Sharing and exchanging information on topics of common interest and dedicated study Questions through face-to-face meetings, multilingual remote participation, online collaborative sites, etc. among members with the leadership of appointed Chairmen, Vice-Chairmen, Rapporteurs and Vice-Rapporteurs.
- ✓ **Key deliverables**: Reports, Guidelines, and Best Practices based on input gathered through surveys, contributions and case studies, which are available to the membership through content management systems and web publication tools.

Translation of contributions

Remote participations

Networking

Showcases

Interpretation services

Surveys

Fellowships

Interactive sessions

Case study library

Information exchange

www.itu.int/ITU-D/study-groups/

Mobile app



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ITU-D SG: **Scope of work**

Study Group 1: Enabling environment for the development of telecommunications/ICTs

- National telecommunication/ICT policy, regulatory, technical and strategy development, including **broadband**, as an engine for sustainable growth.
- Economic policies and methods of determining **costs** of telecoms/ICT services.
- Access to **cloud computing** services.
- Access to ICTs for rural/remote areas and to ICT services by **persons with disabilities and specific needs**.
- Consumer protection.
- Spectrum management, including the ongoing **transition from analogue to digital** terrestrial television broadcasting, and use of the **digital dividend**.

Detailed information on each of the study topics is available at:
www.itu.int/net4/ITU-D/CDS/sg/questions.asp?lg=1&sp=2014

Study Group 2: ICT applications, cybersecurity, emergency telecommunications and climate change adaptation

- Telecommunications/ICT **services and applications**.
- Building confidence and **security** in the use of ICTs
- The use of telecommunications/ICTs in mitigating the impact of **climate change** on developing countries, and for natural **disaster preparedness**, mitigation and relief.
- **Conformance and interoperability** testing.
- **Human exposure to electromagnetic fields** and safe disposal of **electronic waste**.
- The implementation of telecommunications/ICTs, taking into account work by ITU-T and ITU-R, and the priorities of developing countries.

ITU-D SG 1: Enabling environment for the development of telecommunications / ICTs (2014-17)



- **Question 1/1:** Policy, regulatory and technical aspects of the migration from existing networks to broadband networks in developing countries, including next-generation networks, m-services, OTT services and the implementation of IPv6
- **Question 2/1:** Broadband access technologies, including IMT, for developing countries
- **Question 3/1:** Access to cloud computing: Challenges and opportunities for developing countries
- **Question 4/1:** Economic policies and methods of determining the costs of services related to national telecommunication/ICT networks, including next-generation networks
- **Question 5/1:** Telecommunications/ICTs for rural and remote areas
- **Question 6/1:** Consumer information, protection and rights – Laws, regulation, economic bases, consumer networks
- **Question 7/1:** Access to telecommunication/ICT services by persons with disabilities and with specific needs
- **Question 8/1:** Examination of strategies and methods of migration from analogue to digital terrestrial broadcasting and implementation of new services
- **Resolution 9:** Participation of countries, particularly developing countries, in spectrum management

ITU-D SG 2: ICT applications, cybersecurity, emergency telecommunications and climate change adaptation (2014-17)



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Questions related to ICT applications and cybersecurity:

- **Question 1/2:** Creating the smart society: Social and economic development through ICT applications
- **Question 2/2:** Information and telecommunications/ICTs for e-health
- **Question 3/2:** Securing information and communication networks: Best practices for developing a culture of cybersecurity
- **Question 4/2:** Assistance to developing countries for implementing conformance and interoperability programmes

Question 9/2: Identification of study topics in the ITU-T and ITU-R study groups which are of particular interest to developing countries

Questions related to climate change, environment, emergency telecommunications:

- **Question 5/2:** Utilization of telecommunications/ICTs for disaster preparedness, mitigation and response
- **Question 6/2:** ICT and climate change
- **Question 7/2:** Strategies and policies concerning human exposure to electromagnetic fields
- **Question 8/2:** Strategies and policies for the proper disposal or reuse of telecommunication/ICT waste material



ITU-D STUDY GROUPS

MAIN DELIVERABLES & PROGRESS

ITU-D SG: **Main deliverables**

(2014-17)



- **Meeting reports** after each Study Group and Rapporteur Group meeting
- **Brief progress reports with highlights/challenges** from each RGQ to the annual study group meetings.
- **Guidelines and Recommendations**
- **Collection of final output reports, guidelines, Recommendations for all Questions**
- **Reports from SG1 and 2 Chairmen to TDAG**
- **Final Reports from SG1 and 2 Chairmen to WTDC.**

Progress on Outputs and Deliverables

ITU-D SG 1 (1)



Note: Final deliverables are still under preparation

Question 1/1:

- Roadmap for affordable broadband, case studies and best practice guidelines.
- Overview of regulatory and policy aspects of development and deployment of m-services.
- Overview of key regulatory issues related to OTTs

Question 2/1:

- Insights into broadband access technologies and their future trends.

Question 3/1:

- Insights into the state of cloud computing in developing countries and future trends.

Question 4/1:

- Overview of new charging methods over NGN.
- Guidelines on infrastructure sharing.
- Overview of methods for determining license fees.

Question 5/1:

- How to adapt services and applications to the needs of users in rural and remote areas.; & funding mechanisms, business models and incentives for operators, and related recommendations.

Progress on Outputs and Deliverables

ITU-D SG 1 (2)



Question 6/1:

- Challenges, trends and guidelines for consumer protection.
- Case studies.

Question 7/1:

- Guidelines to implement legislation that promotes ICT accessibility.
- Trends, requirements, and guidelines for mobile phone accessibility, television/video programming accessibility, and web accessibility.
- Requirements and guidelines to promote and implement accessible e-education.

Question 8/1:

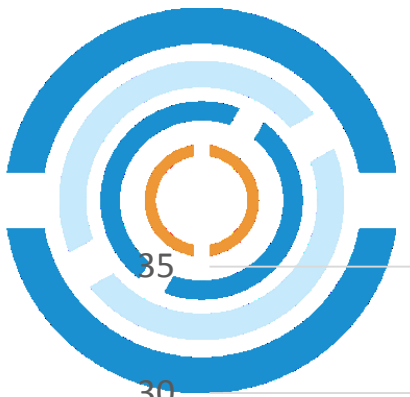
- Best Practices for the transition from analogue to digital television broadcasting.
- Key success factors for analogue switch-off.
- Guidelines for communication campaigns.
- Guidelines for analogue switch-off communication plans.

Resolution 9:

- Emerging spectrum management approaches.
- Monitoring schemes to efficiently manage spectrum.
- Approaches for setting up a spectrum monitoring system.

Note: Final deliverables are still under preparation

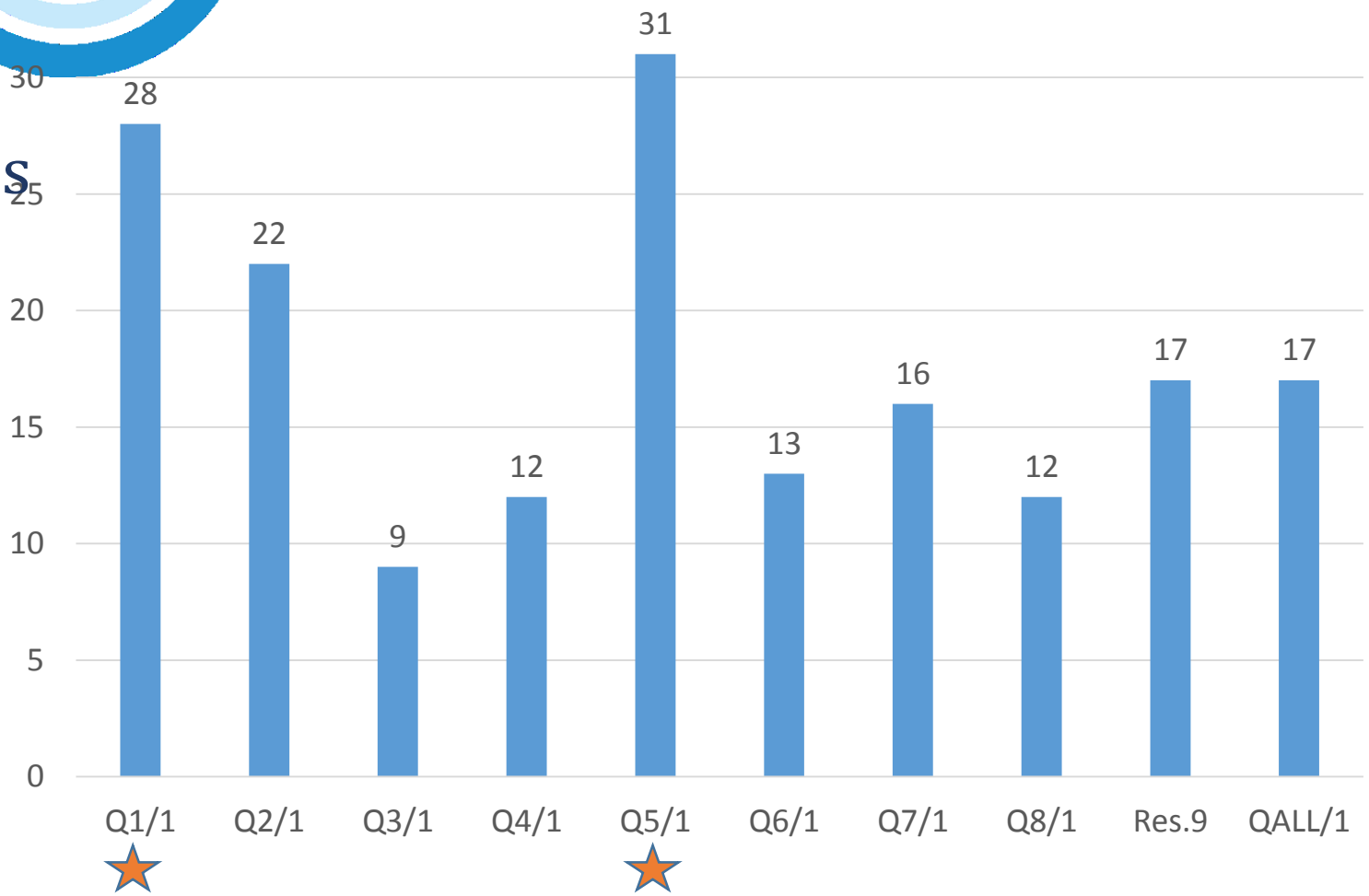
ITU-D SG 1 Questions: by Contributions



Number of SG1 Contributions by Questions

Figures by Question include all documents to show activity by Question.
Some contributions may be counted more than once if allocated to more than one Question.

Total: 147 documents (2016)



ITU-D SG 1 Contributions: by Regions

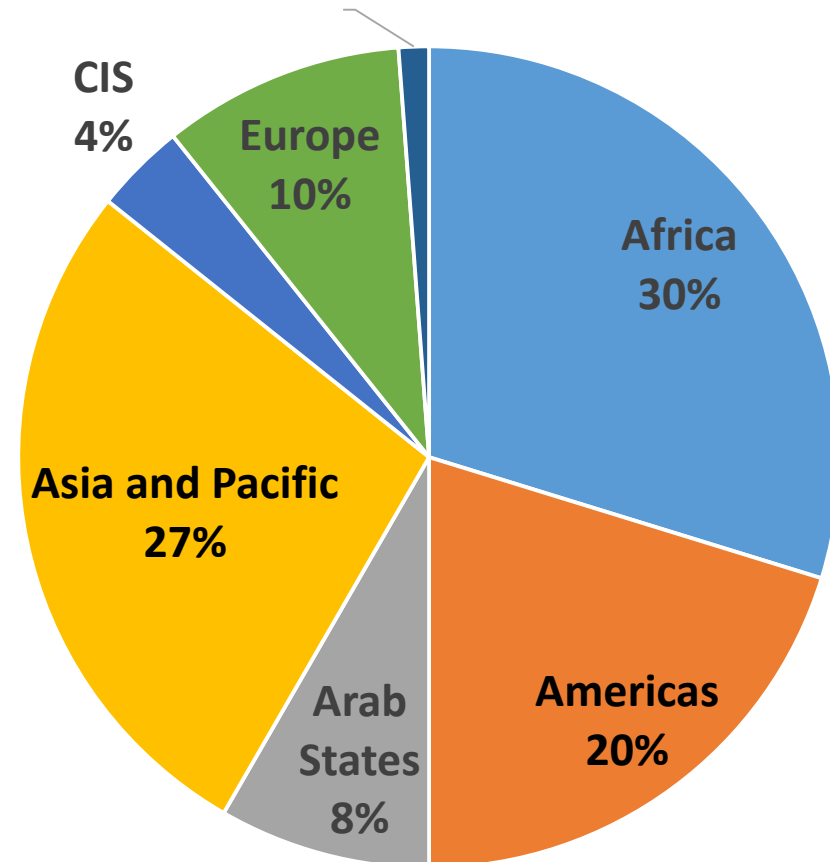


- Africa
- Americas
- Arab States
- Asia and Pacific
- CIS
- Europe
- Multi-regional

Based only on **contributions from members** (excludes documents from ITU, Regional and International organizations and incoming liaison statements).

Total: 63 documents (2016)

Number of SG1 contributions by regions



Progress on Outputs and Deliverables

ITU-D SG 2 (1)



Note: Final deliverables are still under preparations

Question 1/2:

- Smart society and related applications.
- Best practices and lessons learned in developing a smart society.
- Overview of standards and toolkits for designing and implementing the smart society.
- Insights into relevant monitoring, evaluation and impact frameworks.

Question 2/2:

- Overview of eHealth implementation and challenges faced together with recommendations.

Question 3/2:

- Insights into how to improve national cybersecurity posture.

Question 4/2:

- Insights into the importance and impact of capacity building on the ability of developing countries to reduce risks associated with low-quality equipment, and equipment interoperability issues.
- Guidance on the framework and procedures to establish mutual recognition agreements.
- Overview of market surveillance

Progress on Outputs and Deliverables

ITU-D SG 2 (2)



Note: Final deliverables are still under preparations

Question 5/2:

- Insights and best practice guidelines concerning the use of ICTs for disaster mitigation and relief.
- Online toolkit on emergency telecommunications for disaster relief.
- Emergency Communications Checklist.

Question 6/2:

- Insights into climate change monitoring, mitigation and adaptation, and related guidelines.

Question 7/2:

- Guidelines and best practices on strategies and policies concerning human exposure to electromagnetic fields

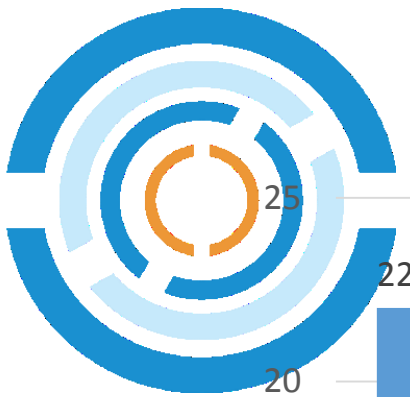
Question 8/2:

- Insights into the technical, economic, and social aspects of the proper disposal or reuse of telecommunication/ICT waste material.
- Business opportunities in the comprehensive management of waste of electrical and electronic equipment (WEEE).

Question 9/2:

- Inventory of topics studied in the ITU sectors and the General Secretariat that may be of interest to developing countries.

ITU-D SG 2 Questions: by Contributions

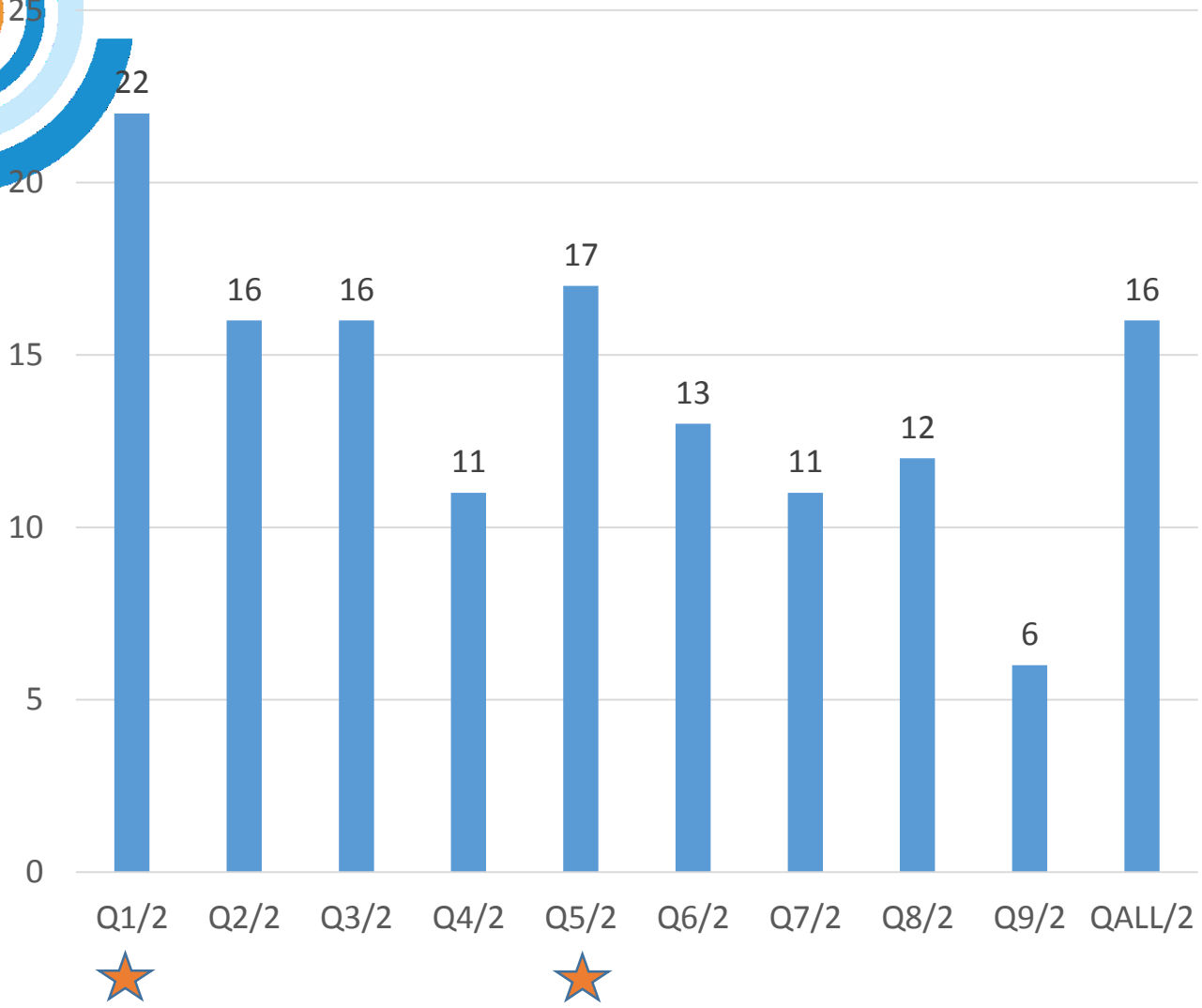


Number of SG2 Contributions by Questions

Figures by Question include all documents to show activity by Question.

Some contributions may be counted more than once if allocated to more than one Question.

Total: 123+2 documents (2016)



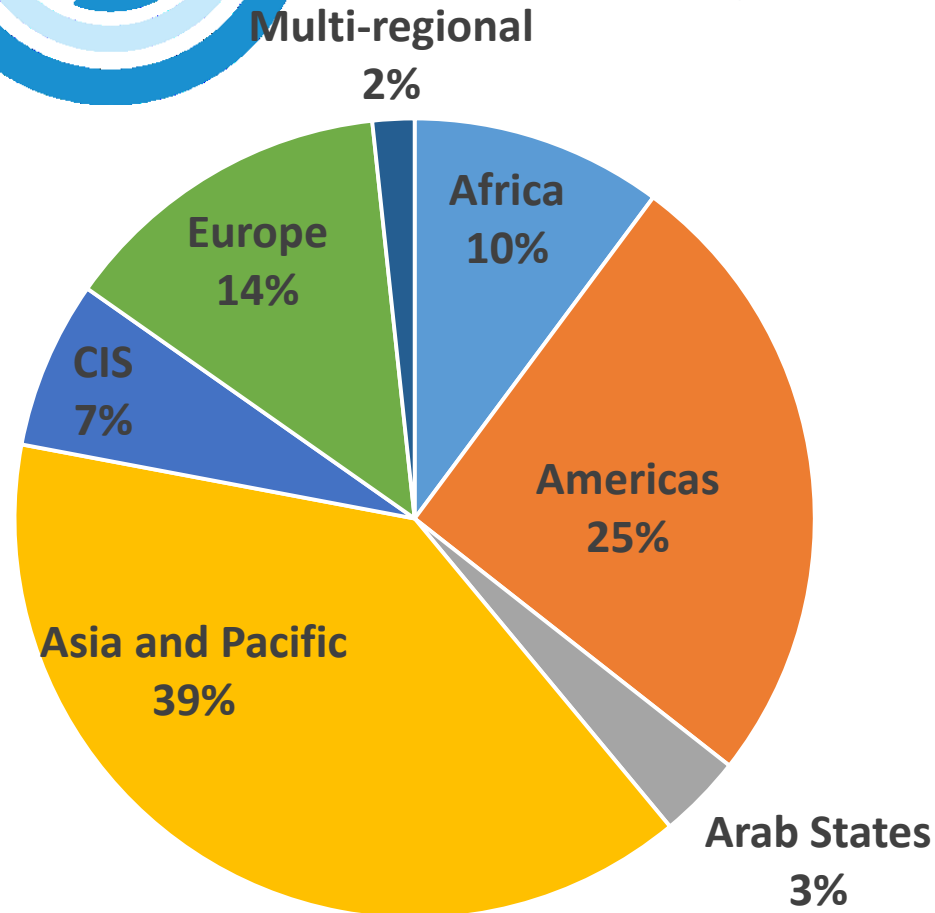
ITU-D SG 2 Contributions: by Regions



Number SG2
Contribution
by regions

Based only on **contributions from members** (excludes documents from ITU, Regional and International organizations and incoming liaison statements).

Total: 64+1 documents (2016)



- Africa
- Americas
- Arab States
- Asia and Pacific
- CIS
- Europe
- Multi-regional



ITU-D STUDY GROUPS

WAYS FORWARD

ITU-D SGs: Any Suggestions ?



1. Working Method (Res 1)

- ✓ Structure: Number of study groups ?
- ✓ Deadline for contribution, translation etc. ?
- ✓ Increased number of days or Parallel Sessions ?
- ✓ Timely reporting with cases or stories, when ready ?
- ✓ Utilizing new technologies: e.g., SharePoint, interactive tools etc. ?
- ✓ Collaboration with other Sectors/GS & others ?

2. Existing and New Study Questions: How; What; Where & When

- ✓ Optimal number of study Questions ?
- ✓ Revised, new & focused study Questions ?

3. Mechanisms for raising resources for fellowships etc.

- ✓ Sponsorship package ?
- ✓ Interactive innovation tools for consultation ?

ITU-D Study Questions: Options & Ideas



Op 1: No change

Op 2: Restructuring

Op 3: Finish the study

Op 4: Add new study

- **Spectrum for new services and applications; economic aspects, digital radio/sound broadcasting; mobile TV ?**
- **Smart applications: Smart Society/City, Energy Grid, Education, Health, Tourism, Transportation etc. ?**
- **Enabling regulatory environment: OTT services ; Quality of Service (QoS)/ Quality of Experience (QoE) ; USF?**
- **Economic policies and cost methodologies?**
- **Next generation of broadband technologies, policies and implications; or more focused ?**
- **Cloud services: Security , Privacy etc. ?**
- **Telecommunications/ICTs for rural and remote areas ?**
- **Internet of Things (IOT) & Everything (IOE) ?**
- **New emerging technologies (e.g., AI, IMT 2020 etc.) ?**
- **Cybersecurity and critical infrastructure protection?**
- **ICTs for disaster mitigation and relief; climate change monitoring, mitigation and adaptation?**
- **Access to telecommunication/ICT services by persons with disabilities and with specific needs ?**
- **And more ??**

Ways to input proposals on future study topics





**Suggestions and Partnerships are welcome
To contribute to the SDGs together**

Thank You!