Discuss

How ITU-T develops Standards

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AGENDA SESSION 1

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What are Standards

- Definitions, Categories of Standards
- Benefits of applying Standards
- Standards versus Regulations , International Standards versus National Standards
- Role of ICT Standards and key ICT Standards Organizations
- How are Standards created: Principles of Standard development
- World Standard Cooperation

How ITU-T develops Standards

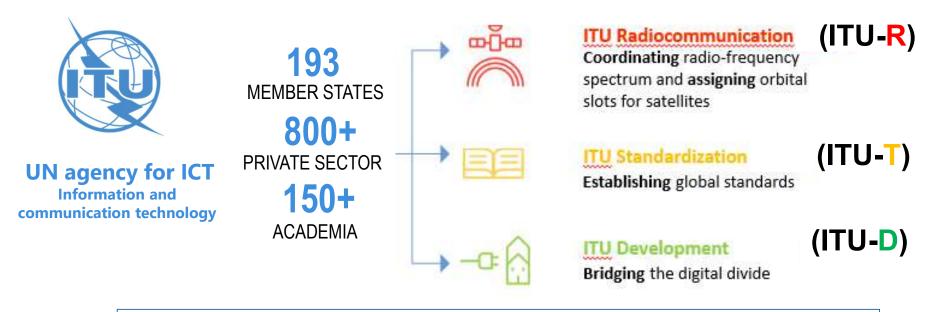
- ITU Who we are Our Membership
- ITU-T Objectives , Open Standards
- ITU-T Standards in the Network, Study Groups and ITU-T Structure
- Work Item Life-cycle, Consensus based decision-making in ITU-T
- TAP, AAP, non normative texts
- Key Leadership roles

Standardization in ITU-T SG15

- Study Group 15 (SG15) mandate
- Lead Study Group
- SG15 Structure
- Working Parties and Questions highlights
- Key Recommendations and future work
- Cooperation with other SDOs



ITU – Who we are – Our Membership



A unique platform for governments, private sector and academic institutions to build consensus on important and pressing ICT technical and regulatory issues facing our society today

ITU-T Objectives (2020-2023) Innovate



Development of Standards

Develop non-discriminatory international standards (ITU-T recommendations), in a timely manner, and foster interoperability and improved performance of equipment, networks, services and applications



Bridging the Standardization Gap



Telecommunication Resources



Knowledge-Sharing



Cooperation with SDOs

Promote the active participation of the membership, in particular developing countries, in the definition and adoption of non-discriminatory international standards with a view to bridging the standardization gap

Ensure effective allocation and management of international telecommunication numbering, naming, addressing and identification resources in accordance with ITU-T recommendations and procedures

Foster the acquisition, awareness, sharing of knowledge and know how on the standardization activities of ITU-T

Extend and facilitate cooperation with international, regional and national standardization bodies

Vision: An information society, empowered by the interconnected world, where telecommunication/information and communication technologies (ICTs) enable and accelerate social, economic and environmentally sustainable growth and development for everyone.

Mission: ITU's mission is to promote, facilitate and foster affordable and universal access to telecommunication/ information and communication technology networks, services and applications and their use for social, economic and environmentally sustainable growth and development.

Our Strategic Goals:

Goal 1 – Universal Connectivity

Goal 2 – Sustainable Digital Transformation

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Open Standards

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ITU-T has a long history of open standards development

- Standards (named Recommendations), made publicly available, easily available for implementation and use
- Developed and maintained via a collaborative and consensus driven process
- Facilitate interoperability and data exchange among different products or services and are intended for widespread adoption
- Collaborative, reasonably balanced and due process
- Intellectual property rights (IPRs)
 - Essential to implement the standard to be licensed to all applicants on a worldwide, non-discriminatory basis
 - ✓ Either for free or on reasonable terms and conditions (which may include monetary compensation)
 - Negotiations are left to the parties concerned and are performed outside the SDO
- Quality and level of detail
 - ✓ Sufficient to permit the development of a variety of competing implementations of interoperable products or services.
- On-going support
 - ✓ Maintained and supported over a long period of time.



Technical Foundations



Transport, access and home networks



Multimedia



Service quality



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Numbering & emergency comms

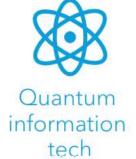


Artificial intelligence













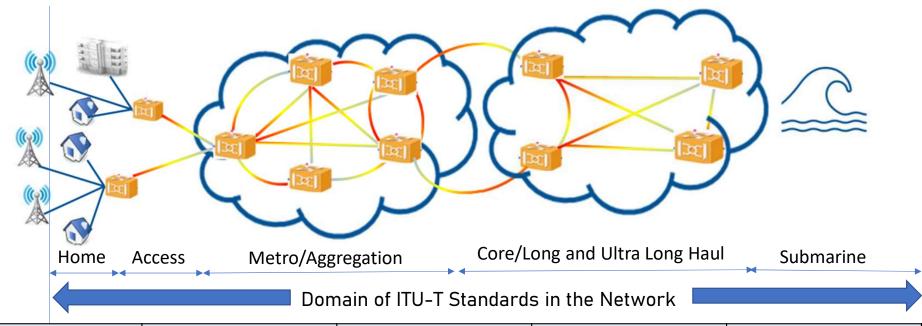
Digital Transformation



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ITU-T Standards in the Network

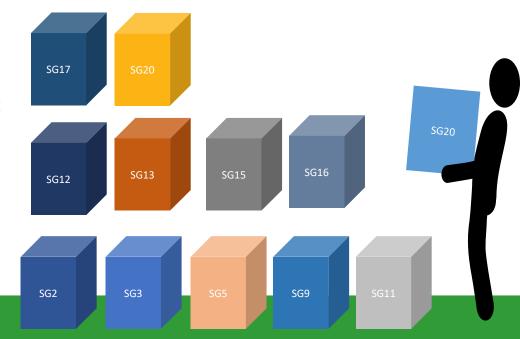


SG2 - Operational aspects	SG3 - Economic & policy issues	SG5 - Environment, EMF & circular economy	SG9 - Broadband cable & TV	SG11 - Protocols, testing & combating counterfeiting
SG12 - Performance, QoS & QoE	SG13 - Future networks	SG15 - Transport, access & home	SG16 - Multimedia & digital technologies	SG17 - Security
SG20 - IoT, smart cities & communities	Telecommunication Standard	ization Advisory Group (TSAG)	Focus Groups	Joint Coordination Activities

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ITU-T Study Groups

- The standardization work of the ITU-T is organized by Study Groups (SGs), which act as "building blocks" of the standardization process
- Members of the ITU-T Study Groups develop
 Recommendations (i.e. standards) for the various
 fields of international telecommunications, in a spirit
 of consensus.
- Each study group (or SG) has its own area of responsibility, leadership, and authority to initiate, develop and propose ITU-T Recommendations and other deliverables.



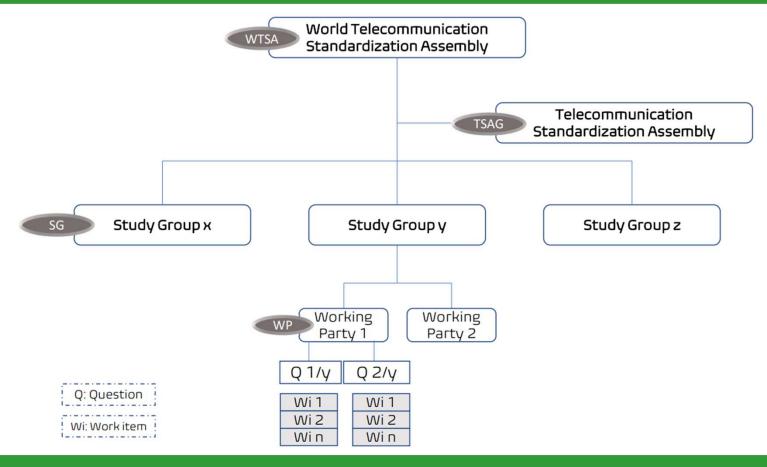


ITU-T Structure

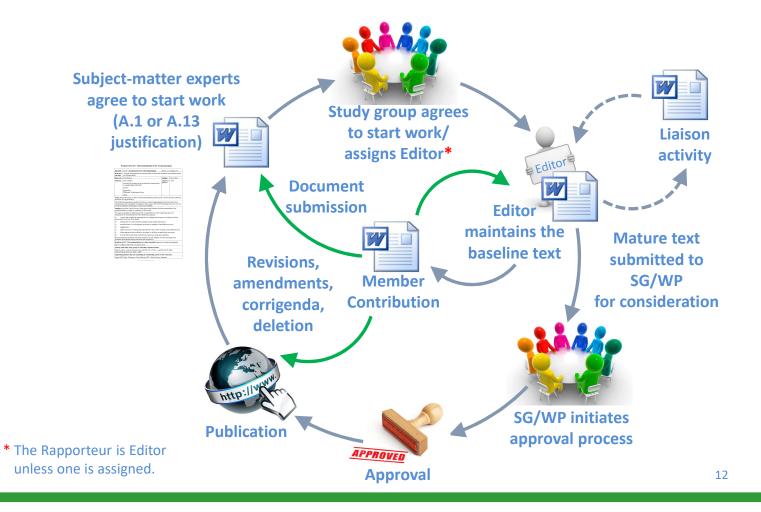
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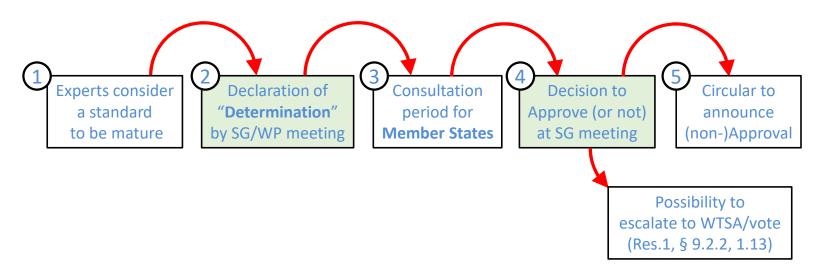




Consensus based decision-making in ITU-T

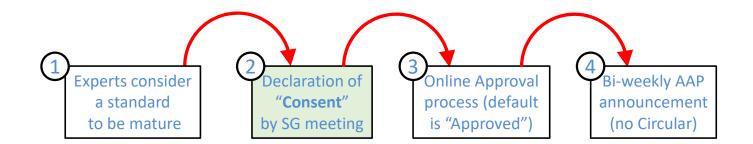
- **Ensures win-win decisions**
- Avoid voting (limited to Member States) 2.
- 3. Soft decisions (agreement, determination, etc.)
- Quantifiable decisions (70% affirmation of Member State consultation, etc.) 4.
- 5. Approval processes:
 - Traditional Approval Process (TAP): Policy or regulatory standards
 - b) Alternative Approval Process (AAP): Technical standards
 - World Telecommunication Standardization Assembly (WTSA): Sensitive or difficult standards
 - Study group **Agreement** of other (non-normative) texts

Traditional Approval Process (TAP): Regulatory and policy issues



Discuss

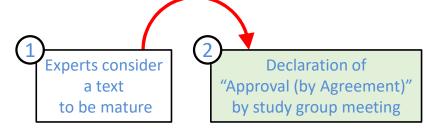
Alternative Approval Process AAP: Quick and flexible



Discuss



Agreement: For non-normative texts



Non-normative (or "informative") texts include:

- 1. Supplements
- 2. Implementers' guides
- 3. Handbooks
- 4. Technical reports
- 5. Technical papers
- 6. Appendices



Key Leadership roles

Management team and membership:

- Study-group Chairmen / Vice-chairmen
- Working-party Chairmen / Vice-chairmen
- Rapporteurs / Associate rapporteurs
- Liaison Rapporteurs
- Editors

TSB Secretariat:

Counsellor/Advisor



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