



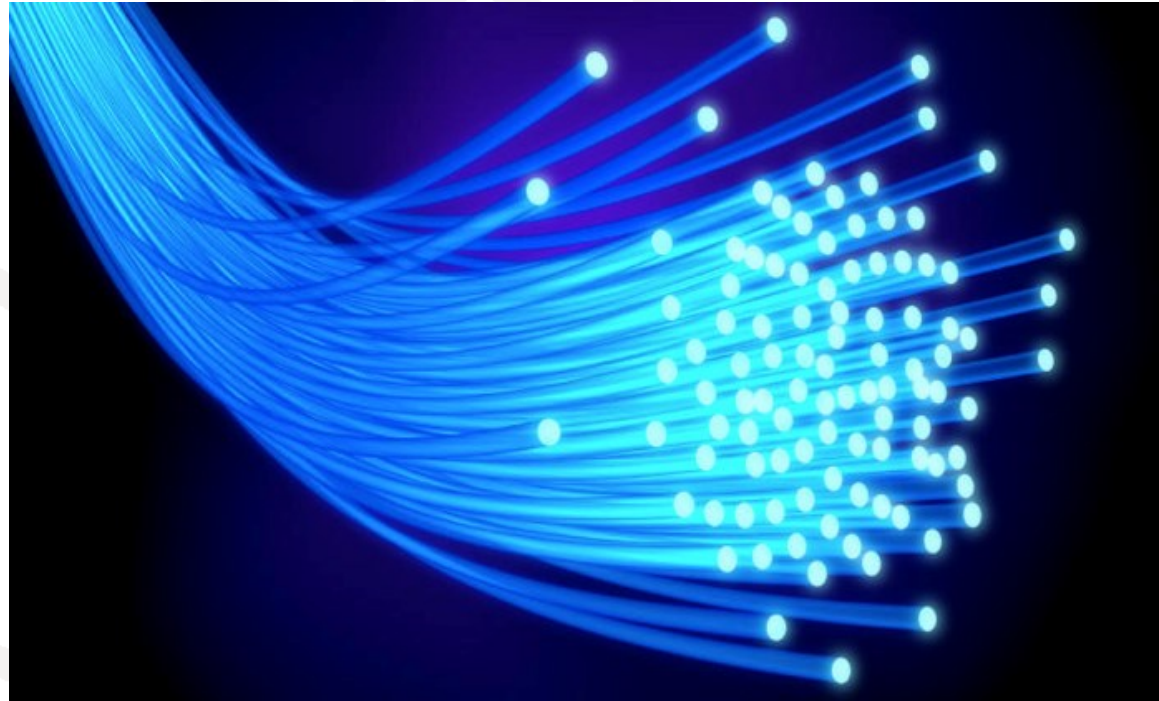
# *Action Plan for Africa*

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# ITU-T: Standardization Sector

Produces standards covering all fields of telecommunications on a worldwide basis and defines tariff and accounting principles for international telecommunication services



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# Strategic objectives of ITU-T

- Develop **non-discriminatory international standards** are compatible with each other (ITU-T);
- To assist in **reducing the gap in standards** between the industrialized and developing countries;
- Expand and facilitate **international cooperation** between international and regional standardization bodies.



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# A unique platform

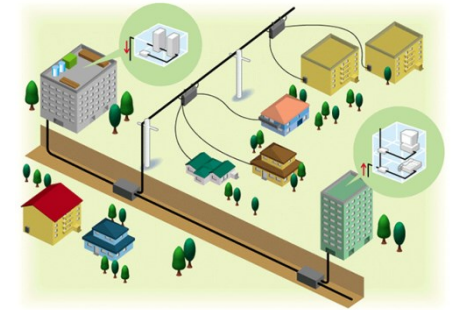
- ✓ **Public-private** platform is the only place where ministries and regulators work closely with industry and academia to develop ICT standards
- ✓ **International participants:** standardization experts from the public and private sector in 193 countries
- ✓ **Member equity:** no matter the size or earnings, all the members of the ITU-T collaborate on equal terms and benefit from the same rights
- ✓ **Stakeholders across the spectrum of ICT:** (Healthcare, utilities, banking, etc.) operators, manufacturers, service providers, consulting firms + vertical industries
- ✓ **Diversity of member profiles:** not only for governments and companies. Universities and research institutions, NGOs, business associations, intergovernmental

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# Main topics

- ✓ **Access to Broadband Internet**  
(xDSL, G.fast, Fiber to the x, Communication on Power Lines)
- ✓ **Fiber Optics and Transport**
- ✓ **Multimedia** (video coding: ITU-T H.264 and H.265)
- ✓ **IPTV, Smart Cable TV**
- ✓ **Performance, Quality of Service (QoS) and Quality of Experience (QoE)**
- ✓ **Numbering and Identification Resources**



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# Main topics

- ✓ **Software-Defined Networking (SDN)**
- ✓ **Cloud Computing**
- ✓ **Big Data**
- ✓ **M2M and the Internet of Things (IoT)**
- ✓ **Cyber security, Identity Management, Protection of Children Online**
- ✓ **Conformance and Interoperability Testing**



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# Main topics

- ✓ Intelligent Transportation Systems
- ✓ Networks / Smart Grids
- ✓ ICTs and Climate Change, Sustainable Smart Cities, Smart Water Management
- ✓ Human Exposure to Electromagnetic Fields
- ✓ E-Health
- ✓ ICT Accessibility and Human Factors
- ✓ Emergency Communications Systems Disaster Recovery, Network Resilience and Recovery



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# ITU-T Study Groups

- SG2 - Operational aspects
- SG3 - Economic and policy issues
- SG5 - Environment and climate change
- SG9 - Broadband cable and TV
- SG11 - Protocols and test specifications
- SG12 - Performance, QoS and QoE
- SG13 - Future networks
- SG15 - Transport, Access and Home
- SG16 - Multimedia
- SG17 - Security



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# Action Plan

**Malcolm Johnson**, Director of the Telecommunication Standardization Bureau launched an Action Plan for Africa based on three pillars:

1. Bridging the standardization gap (BSG)
2. Communication and collaboration
3. Universities and ITU-T



# Bridging the standardization gap (BSG)

- Increase the participation of representatives from the African region in Study Groups (SGs) and Regional Groups to ensure that ITU-T Recommendations address the needs of the African region.
- Regional Groups:
  - ITU-T SG2 Regional Group for East Africa
  - ITU-T SG3 Regional Group for Africa
  - ITU-T SG5 Regional Group for Africa
  - ITU-T SG12 Regional Group on QoS for the Africa Region
  - ITU-T SG13 Regional Group for Africa

# Communication and collaboration

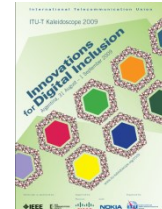
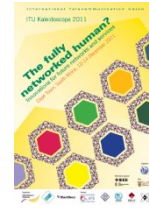
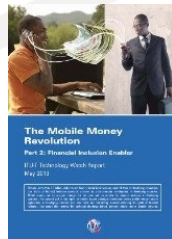
- Collaboration & communication with key partners in the region:
  - ATU
  - AICN
  - ECOWAS
  - etc...





# Academia and ITU-T Alliance for innovation in ICTs standards

- **Membership** *Resolution 169 (ITU PP-10)*
- WTSA-12 **Resolution 71**
- WTSA-12 **Resolution 80**
- ITU **Kaleidoscope** academic conferences
- ITU-T Technology Watch



- **Seminars** to meet ITU-T experts
- **Lecture Series** in ITU and universities
- **Internships** for students
- Promote your University saving the climate
- Introduce standards in academic curricula: **Workshops**



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# Lead with vision

- Ensure that ITU-T Recommendations address the needs of the African region
- Build partnerships in the African region
- Shape policies and standards to bridge the standardization gap in the African region



# THANK YOU



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