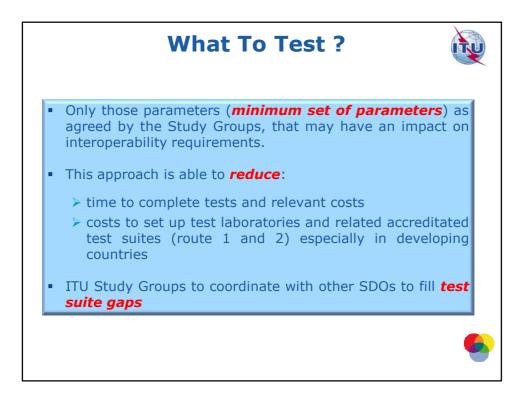
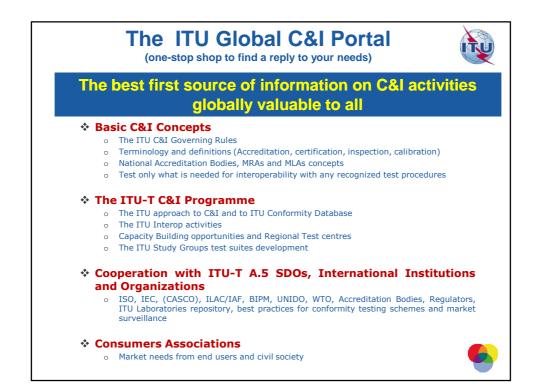


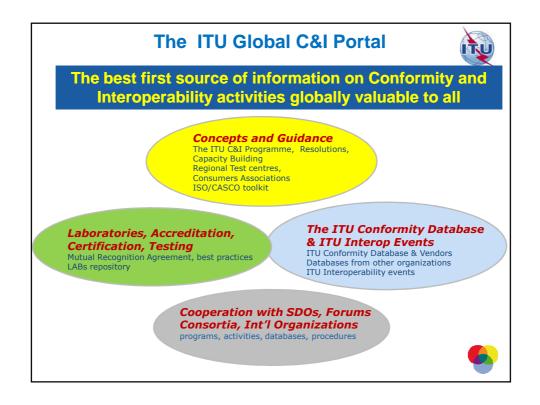
ernational Telecommunication Union		
duct Registration		
	ach field below. One may advance by tabbing from field to field. Once completed SIGN and SCAN completed form and send by E-Mail to: <u>conformity@itu.int</u>	t, click on
	1. Company	
1.1 Name of Signatory:	1.2 Title:	
1.3 Full Company Name:		
1.4 Street/PO Box:	1.5 Town/City:	
1.6 Post/ZIP Code:	1.7 Country: Afghanistan - AFG	~
1.8 Telephone:	1.9 Company E- Mail:	
1.10 Website:		
	2. PRODUCT	
2.1 Name of product:	2. PRODUCT	
2.2 Enter a Category:	ADDI SERVICE REPORTED WOM SURFACE TOTAL 1	
(eg DSLAM, modem,	ADSL, optical fibre, home networking, WDM, multimedia, IPTV etc.)	
2.3 Comments/Remarks:		
(e.g. ITH-T Recomm	endation Edition, main functionalities implemented, etc.)	

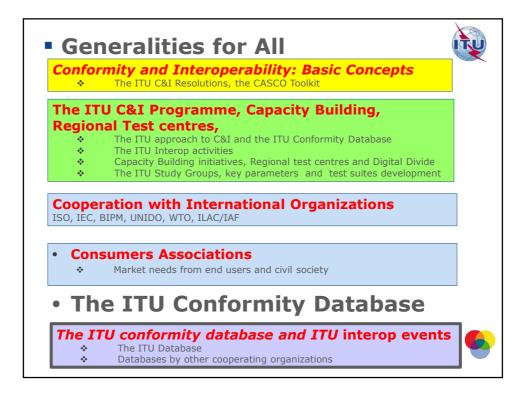
	The ITU SDoC
	3. ITU-T RECOMMENDATION(S) IMPLEMENTED IN THE PRODUCT
3.1 Please select from the I	list below ITU-T Recommendations that are implemented in your product.
Select Series: 🔜 💌	Select Number: Select
3.2 Comments/Remarks:	(Insert here edition of Recommendations if different from the one in force at the moment of submission of the form and/or number/series of national/regional standards adopted as equivalent to ITU-T Recommendation(s), e.g. NMR 234/G.992.2; XYZ123/H.264)
4. SDOs (ACC	EPTED UNDER ITU-T A.5) WHOSE STANDARDS ARE IMPLEMENTED IN THE PRODUCT

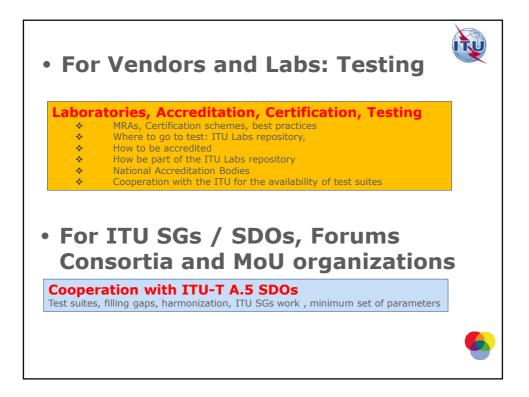
The ITU SDoC	ity
5.·DECLARATION· OF·CONFORMITY· ¤	ц
By-signing this SDoC I-declare that all statements are true and that I-have the authority to make such ¶ statements on behalf of this company. I also declare that I-idid due diligence and I am confident to stake my ¶ reputation on the fact that using test methods and procedures according to the "Toute". I selected here below, conform to the ITU-Trecommendations detailed under item 3 and that I recognize the right of ITU to reject¶ or to remeve any product or credential data claims that are repunded to be false.*	٩
The present Supplier's Declaration of Conformity is issued on the basis of : × C Route 1: Testing performed in a 1st, 2nd or 3rd party accredited laboratory according to ISO/IEC 17025	
 Route-2:-Test-performed-in-a-lab-agreed-and-with-results-verified-by-an-Accredited-Certification-Body-(IE Route-3:-Testing-performed-in-laboratories-recognized-by-an-SDOs,-Forum-or-Consortium-qualified-in-ac 	
Recommendation:ITU-T-A.5-or-by-an-Organization-having-signed-an-MoU with-ITU-A-Conformity-Statement-i C Route-4:-Testing-performed-in-a-1st,2nd-or-3rd-party-laboratoryA-Self-declaration-of-compliance-is-issu	
Laboratory-Name:	
Download for Signature	•

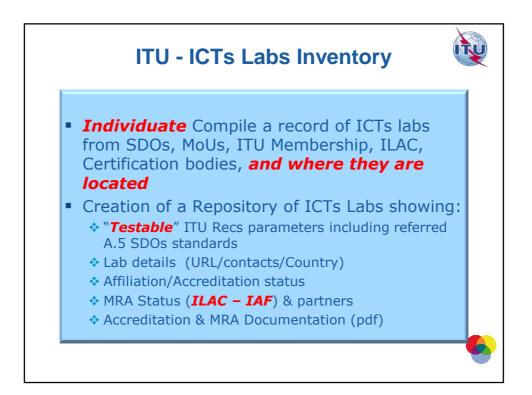






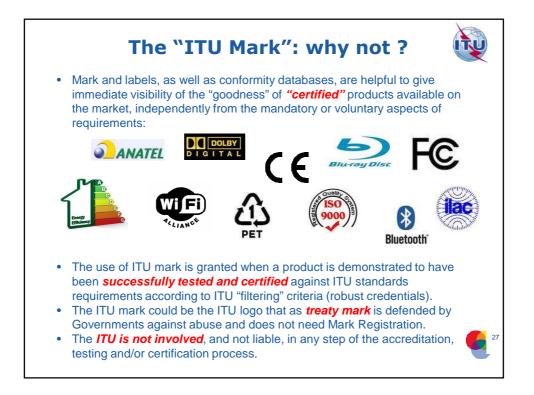


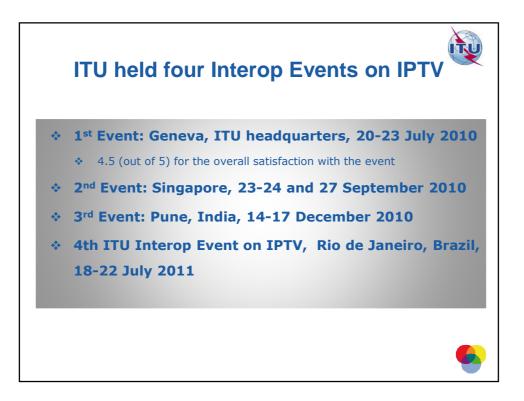








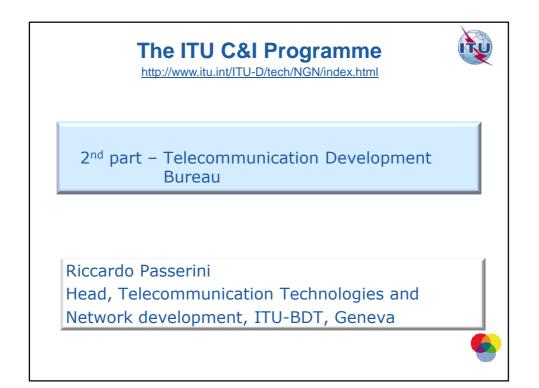


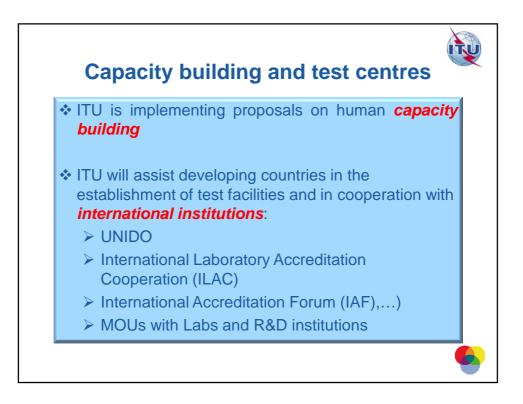


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WTDC-06 Regional Initiatives

CIS REGIONAL INITIATIVE: Creation of international centres for the implementation and testing of new technologies

Objectives

To test telecommunication equipment and services; harmonize methods for the provision of new services within a region; harmonize the introduction in one or more regions of telecommunication standards issued by different international organizations; resolve system/network issues associated with the modernization of communication networks, taking account of previous communication network development experience within a given region.



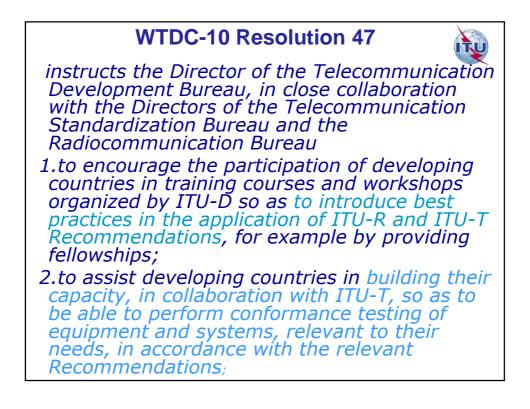


PROGRAMME 1: Programme on information and communication infrastructure and technology development

The objective of this programme is to assist ITU Member States and ITU-D Sector Members and Associates to maximize the utilization of appropriate new technologies for the development of their information and communication infrastructures and services, by taking due account of broadband deployment, transition from analogue to digital broadcasting, traffic and demand forecasting, spectrum management and radio monitoring, interconnectivity, interoperability, network management, security, and quality of service standards for wired and wireless networks, including mobile telecommunications, next-generation networks, rural and satellite telecommunications and the accelerated convergence of the telecommunication networks and services. Particular attention will be given to capacity building in the development and use of ICT networks through training activities and sharing of information and know-how, as well as to developing and making openly available relevant guidelines, manuals and case studies



Promotes enhancement of knowledge and effective application of ITU Recommendations in developing countries, including conformance and interoperability testing of systems manufactured on the basis of ITU Recommendations



WTDC-10 Resolution 47



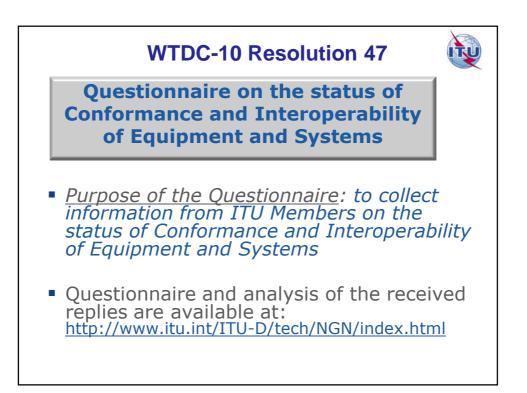
3.to assist the Director of TSB, and in collaboration with the Director of BR, and as appropriate, with equipment and systems manufacturers, internationally and regionally recognized standards development organizations, in conducting conformance assessment and interoperability testing events, preferably in the developing countries, and encouraging developing countries to attend these events; and to collaborate with the Director of TSB to build capacity of the developing countries to effectively participate and be involved in these events, and to provide views of developing countries on this issue following a questionnaire addressed by Programme 1 to the ITU members;

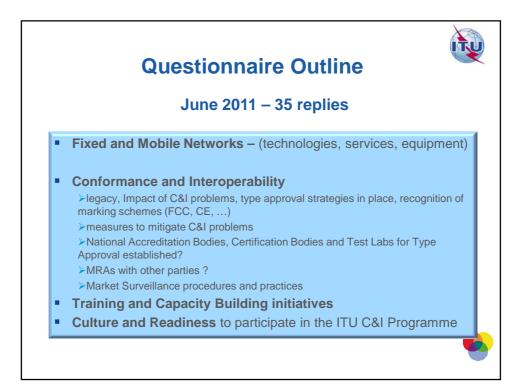


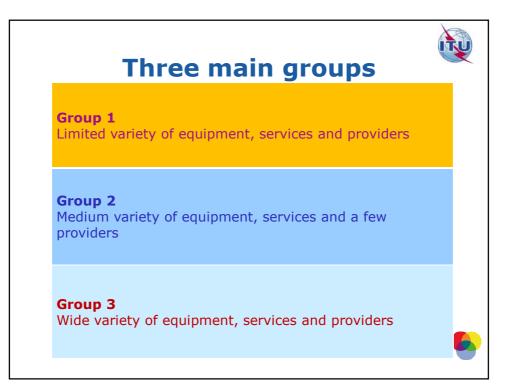
WTDC-10 Resolution 47

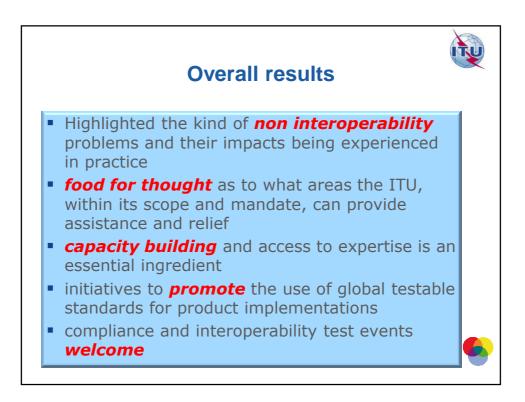
- 6 to assign to Programme 1 the responsibility for following up implementation of this resolution, to conduct a field study on the economic feasibility of and need for creating regional laboratories in areas which may need them (the Africa region, the Arab region and the RCC, the Americas region and the Asia and Pacific region) for conformance and interoperability testing of manufactured systems in relation to ITU-R and ITU-T Recommendations, and to report to Council on the results of this field study;
- 7 to submit a periodic report to the Telecommunication Development Advisory Group on the implementation of this resolution as well as a report to the next WTDC in 2014 on implementation of this resolution, which shall also contain lessons learned with a view to updating the resolution for the phase after 2014.









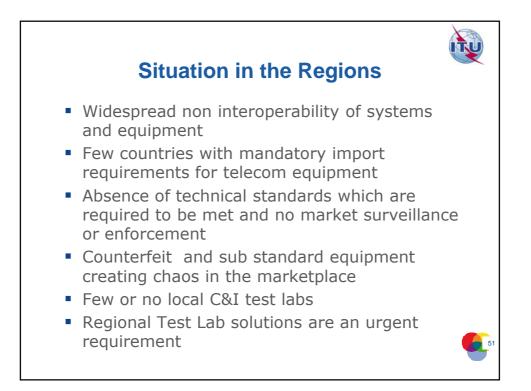


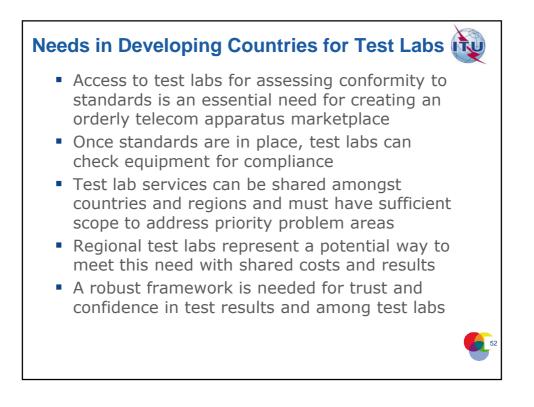
Fi	xed & Mobile netw	vorks
Group 1 Limited variety of equipment, services and providers	Internet/IP Gateway services 2G and 3G GSM network services	No equipment listed in response, referred/deferred to service provider for detailed information
Group 2 Medium variety of equipment, services and a few providers	TDM voice, fax, international voice, data Internet/IP ADSL, Cybercafe, VoIP NGN Softswitch voice, data 2G voice, SMS local and international, prepaid 3G international SMS, local SMS, data and Internet	Tended to have a dominant equipment supplier
Group 3 Wide variety of equipment, services and providers	TDM voice, data, ISDN Internet/IP VoIP, data, email, wimax, metro ethernet NGN Softswitch voice, fax, ISDN NGN IMS VoIP, digital fax 2G GPRS/EDGE, circuit switched data, voice, SMS 3G HPSA + mobile broadband, voice, AMR-WB voice, CS video call, SMS, R99 PS data	Tended to have a wide mix of suppliers

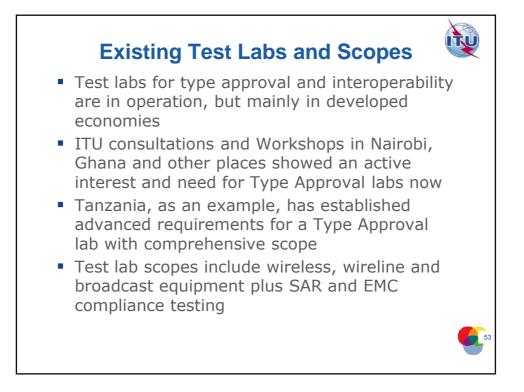
Confo	rmance and Interoperability
Group 1 Limited variety of equipment, services and providers	Reported no problems – likely single operator Type Approval regime reported in place No Type Approval responsible body Marking – recognized either a body recommended by service provider or well known Mark such as EC, FCC No national accreditation, certification bodies or test labs, No MRAs, No market surveillance , No ICT labs
Group 2 Medium variety of equipment, services and a few providers	New equipment can affect legacy systems - Lists of interoperability problems such as: signalling in core networks, CDR equipment malfunctions, problems implementing new features on all platforms - Impact of interoperability problems high, affects QoS, customer satisfaction and loss of business - Pre installation activities carried out to mitigate interoperability problems - Half of this Group have Type Approval regimes - Half have Type Approval bodies -No national accreditation and certification bodies, No MRAs -No market surveillance
Group 3 Wide variety of equipment, services and	Longer lists of interoperability problems such as: MSAN- Softswitch conformity, ISDN support, IMS core, software features in general Lists of economic impacts such as: additional costs, company image, QoS, project delay, upgrade costs, extra testing costs Pre installation work always done to mitigate interoperability problems - Type Approval regimes in place -

Training and Capacity Building		
Group 1 Limited variety of equipment, services and providers	Interested in follow-up training/capacity building related to WTDC 2010 Res 47, WTSA 2008 Res 76, PP-10 Res177	
Group 2 Medium variety of equipment, services and a few providers	Would participate in development of regional program in capacity building and expert tutorials Interested in opportunities to establish national, sub-regional and regional test	
Group 3 Wide variety of equipment, services and providers	centres Availability of ICT Labs to host test events or ITU activities	



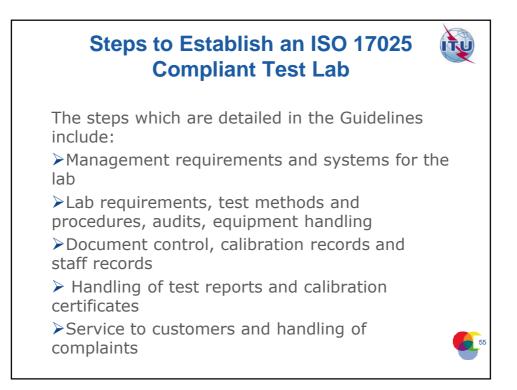




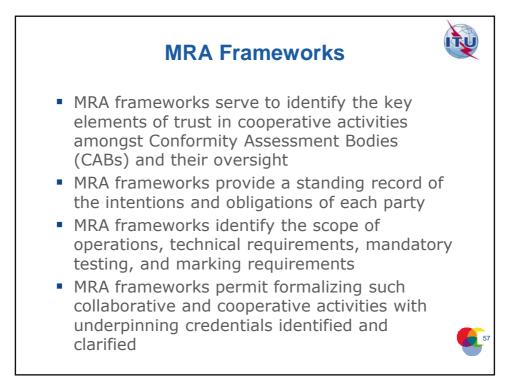


Criteria to Establish Accreditation Bodies and Test Labs

- ISO/IEC has established a set of internationally accepted standards (CASCO Toolbox) which give gold standard credentials to compliant accreditation, certification and test bodies
- These form foundational elements for both trusted services and for framework agreements for sharing services
- The Guidelines provide substantial detail on the various criteria









Funding and Training Sources

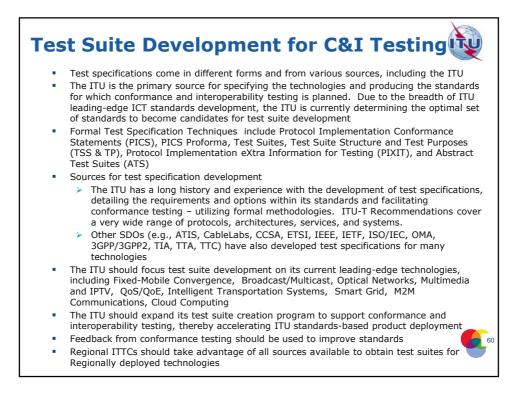
Many sources of funding and training worldwide are identified in the Guidelines:

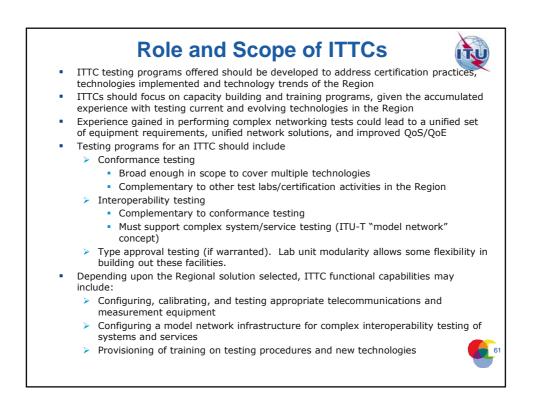
>Funding bodies referenced in an extensive Appendix include UNIDO, major Banks in each region, specialized funding agencies for telecoms projects and others

Requirements to access funds vary from low interest loans, to grants, seed funding and cost underwriting

Sample well known telecom training organizations operating internationally in various regions are listed

These training organizations offer training for which costs vary from just travel to and from location, to government and supplier subsidized training, to private for-profit fully costed training.

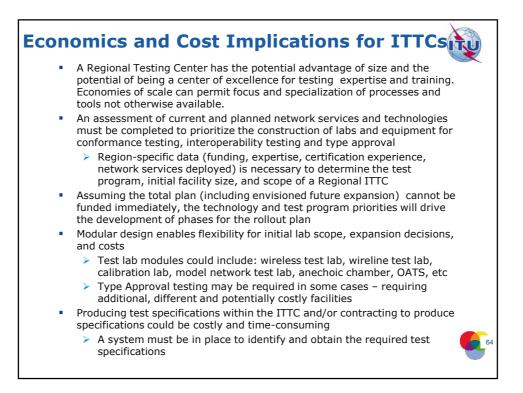


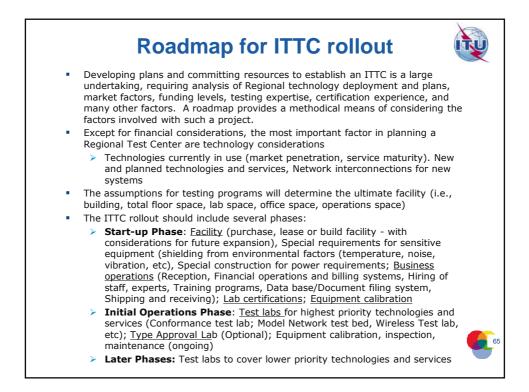




Equipment Requirements for ITTC Testing Programs

- ITTC test equipment requirements will depend on the Regional technologies supported and network evolution plans
- Conformance testing must support testing of standards implemented in a variety of equipment types. Testing of standards and equipment specifications requires a methodical analysis of test cases. An automated test execution environment (utilizing TTCN-3) is encouraged.
- Interoperability testing is complementary to conformance testing and must support complex system/service testing (ITU-T "model network" concept)
- The Model Network Test lab needs to be flexible to address numerous test architectures. Testing of typical NGN service scenarios require:
 - Media Gateway Controllers (MGC), Proxy Servers SIP (PS), Signaling Gateways (SG), IP Multimedia Subsystem (IMS), Media Gateways (GW), Transport Network Environment (TNE), Application Servers (AS), Media servers (MS), Messaging Servers (MeS), Management System (MS), Billing system (BS), NGN Access Devices (NGN-AD), Media Gateway for Legacy Terminal Equipment (GW-LTE)
- Type approval testing equipment must support calibration testing as well as a variety of wireline and wireless equipment tests
- Specialized facilities are also required, such as EM shielded rooms, Anechoic chambers, EMC test equipment, SAR test systems, Environmental chambers and Open Area Test Sites (OATS)







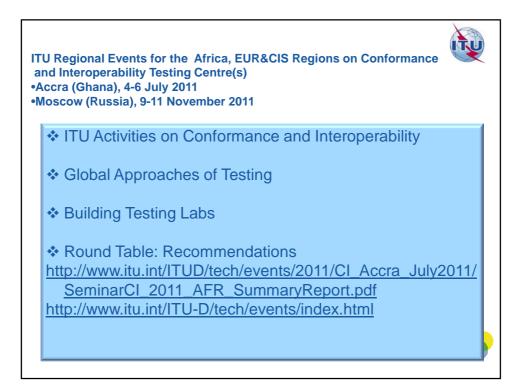
ITU Training activities on C&I 💦

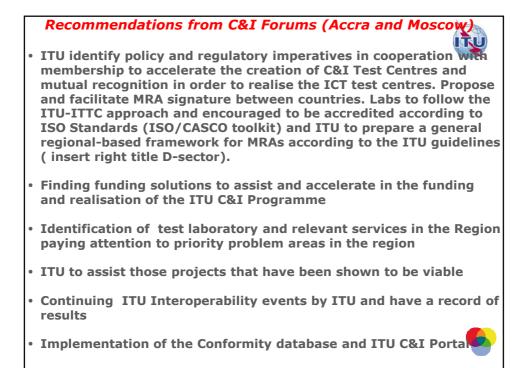
The following events were dedicated exclusively to C&I (<u>http://www.itu.int/ITU-D/tech/events/index.html</u>)

 Workshop on NGN Conformity and Interoperability Testing Centre(s), Nairobi (Kenya), 2-4 August 2010

•ITU Regional Seminar for the Africa Region on Conformance and Interoperability Testing Center(s), Accra (Ghana), 4-6 July 2011

•ITU Regional Seminar for the CIS Countries on Conformance and Interoperability Testing Center(s) will be held in Moscow (Russian Federation, 9-11 November 2011





Recommendations from C&I Forums (Accra and Moscow) cont
 ITU to produce harmonized protocols specifications and test specifications in a timely manner and develop ITU Recommendation (ITU Study Groups) in view of Interoperability Requirements especially for new technologies. Applications, content, services, connectivity, QoS, QoE, testing could be focusing topics at ITU-T new study period (2013 – 2016)
 ITU to assess the type of training needed and provide the training including hands-on training (paying attention to linguistic preferences)
 Countries to actively participate in the work of the ITU e.g. established regional group meetings going on. To discuss and report to Regional Organizations (e.g ATU and RCC) meetings the results and Recommendations of these Events
ITU to define a minimum mandatory set of requirements for QoS for ensuring interoperable services

