Regional Development Forum 2008

"Bridging the Standardization Gap in Developing Countries"

Accra, Ghana, 26 - 28 May 2008

ITU Radiocommunication Activities relevant to Africa

Fabio Leite

Deputy Director ITU Radiocommunication Bureau



Committed to connecting the world

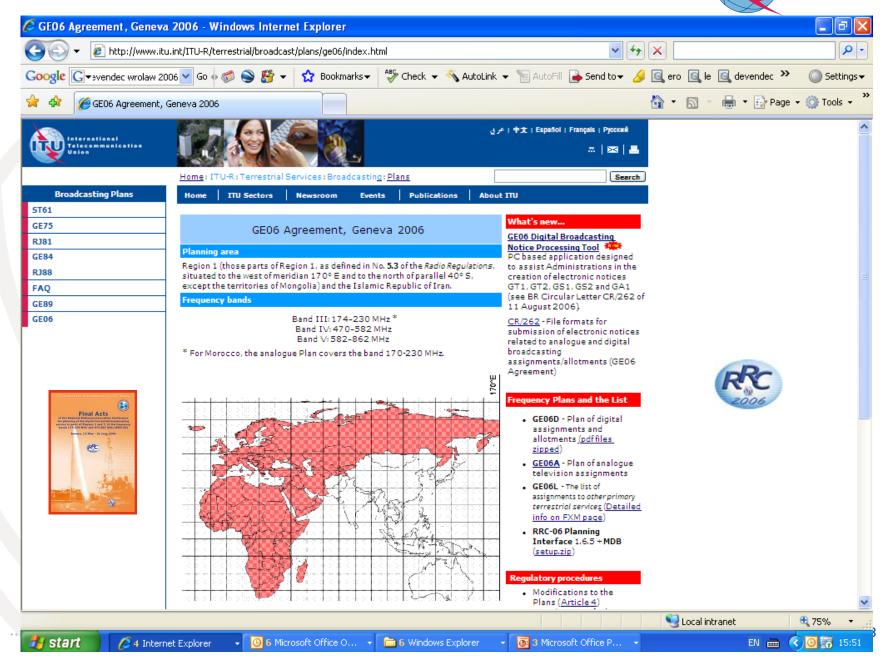


ITU Radiocommunication Activities relevant to Africa Contents

- GE-06: digital broadcasting
- WRC-07: Radio Regulations
- WRC-11: preparations
- ITU-R Study Group: participation

GE-06 Agreement Committed to Connecting the World

International Telecommunication Union



Analogue to digital transition



The Transition period started on 17 June 2006 at 0001 hours UTC:

assignments in the analogue Plan (as specified in § 3.1.2 of Article 3) shall be protected.

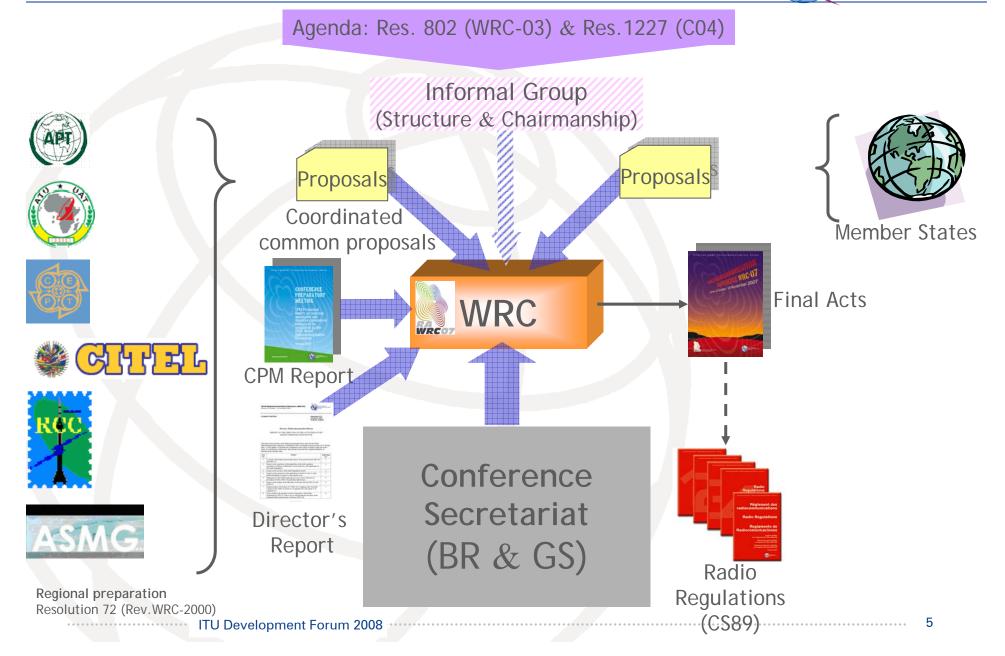
The Transition period shall end :

- on 17 June 2015 at 0001 hours UTC (for UHF bands in all countries; for VHF in all countries except those that opted for 17 June 2020).
- > on 17 June 2020 at 0001 hours UTC for the countries:
 - Algeria (People's Democratic Republic of), Burkina Faso, Cameroon (Republic of), Congo (Republic of the), Côte d'Ivoire (Republic of), Egypt (Arab Republic of), Gabonese Republic, Ghana, Guinea (Republic of), Iran (Islamic Republic of), Jordan (Hashemite Kingdom of), Mali (Republic of), Morocco (Kingdom of), Mauritania (Islamic Republic of), Nigeria (Federal Republic of), Syrian Arab Republic, Sudan (Republic of the), Chad (Republic of), Togolese Republic, Tunisia, Yemen (Republic of).
 - For the following administrations which were not present at RRC-06, namely Benin (Republic of), Central African Republic, Eritrea, Ethiopia (Federal Democratic Republic of), Guinea-Bissau (Republic of), Equatorial Guinea (Republic of), Liberia (Republic of), Madagascar (Republic of), Niger (Republic of the), Democratic Republic of the Congo, Sao Tome and Principe (Democratic Republic of), Sierra Leone and Somali Democratic Republic, the date of the end of the transition period in the VHF band (174-230 MHz), unless any of the aforementioned administrations communicates to the Bureau during the 90-day period from the end of RRC-06 that it selects 17 June 2015 at 0001 hours UTC.

 \rightarrow **Report ITU-R BT.XXX** (2008): Transition from analogue to digital terrestrial broadcasting (Overview of broadcasting technologies; application and implementation of digital broadcasting; transition issues; case studies)







WRC-07 in brief Committed to Connecting the World





Mr. François Rancy (France) Chairman, ITU WRC-07

Participation: 2,822 delegates*, 161 Member States**, 94 observer organizations *) 438 from Africa, **) 45 from Africa Documentation: Over 3,100 proposals in 350 documents, 11,800 pages translated, 2,380,000 downloads

Meetings: Over 1,100 meetings, 30 meetings/day Final Acts: ~500 pages

http://www.itu.int/ITU-R/go/WRC-07





Not present: Central African Rep., Equatorial Guinea, Eritrea, Ethiopia, Liberia, Sao Tome and Principe, Sierra Leone, Somalia. *) Not signed Final Acts.

Final meetings & proposals Committed to Connecting the World





Final Meeting: <u>APG2007-5</u> (16-21.7, Busan, KOR) PACPs: WRC-07 Doc. 41



Final Meetings: African Preparatory Meeting on WRC-07 (25-29.6, Abuja, NIG) & WRC-07 Information Meeting for Africa (28-31.8, Geneva) ACPs: WRC-07 Doc. 43



Final Meeting: CPG07-9 (10-13.7, Gothenburg, S) ECPs: WRC-07 Doc. 10



Final Meeting: X PCC-II (31.7-3.8, Orlando, USA) IAPs: WRC-07 Doc. 14



Final Meeting: 12-19.9, Chisinau, MDA RCCs: WRC-07 Doc. 16



Final Meeting: <u>10th Arab Group</u> (22-27.7, Damascus, SYR) ARBS: WARt Grun 2708 Doc. 39

African preparatory meeting

Committed to Connecting the World



▼ ▶ Google

😻 Input Documents - Mozilla Firefox

Eichier Édition Affichage Historique Marque-pages Outils ?

Customize Links C Free Hotmail Windows Marketplace Windows Media Windows

Comm		A home State ma	p search No check mai		
O HOME					
ABOUT US	related events		news		
D MEMBERSHIP D PROGRAMMES D PUBLICATIONS D EVENTS D NEWS D NEWS D MEMBERS AREA	African Preparatory Meeting on the 2007 World Radiocommunication Conference (WRC-07) Abuja, Nigeria, 25-29 June 2007	 Invitations - Member States Invitations - Partners Draft Programme eria, Registration Form List of recommended Hotels 			
ATU Secretariat Box 35282 Nairobi 00200 Kenya Tel: +254 20 4453308, 4453358 Fax: +254 20 4453359 E-mail	General information on Nigeria On the kind invitation and support of the Government of the Federal Republic of Nigeria, the African Telecommunications Union (ATU) is organizing from 25 to 29 June 2007 in Abuja, Nigeria, an African preparatory meeting on the World Radiocommunication Conference (WRC-07). WRC-07 is scheduled to take place in Geneva, Switzerland, from 22 October to 16 November 2007, after the Radiocommunication Assembly 2007, that will also be convened in Geneva, Switzerland, from 15 to 19 October 2007. The Abuja preparatory meeting is organized with the main objective to evolve African common proposals and positions for the work of the WRC-07. In order to assist in this process, we have mandated Mr. Shola Taylor, Member of the Radiocommunication Regulation Board, to compile the various African national positions.				
	home feedback directory privacy Designed and maintained by Teknosell Copyright © 2008 ATU [+]				
			a more news		

Terminé			
🦺 start	1 Input Documents - M	Microsoft PowerPoint	EN 🖮 🛛 🛱 🍫 🏹 22:42
		http://www.atu-uat.org/revents_apm_wrc07.htm	

African information meeting Committed to Connecting the World





WRC-07 Information Meeting for African countries, Geneva, Switzerland, 28-31 August 2007



Top - Feedback - Contact us - Copyright © ITU 2008 All Rights Reserved Contact for this page : ITU-R Web Coordinator Updated : 2008-04-15

Terminé	
Start SR Radiocommunication S Microsoft PowerPoint	EN 🖮 🛛 🗘 🐼 🙀 22:44
http://www.itu.int/ITU-R/index.asp?category=conferences&rlink=wrc-07-	atu-2908⟨=er

African common proposals



World Radiocommunication Conference (WRC-07) Geneva, 22 October - 16 November 2007



PLENARY MEETING

Document 43-E 2 November 2007 Original: English

African Telecommunications Union Administrations

AFRICAN COMMON PROPOSALS FOR THE WORK OF THE CONFERENCE

The African Common Proposals (AFCPs) for the work of the Conference are contained in Addenda 1 to 19 to this document as follows:

Addendum 1 – Agenda item 1.2
Addendum 2 – Agenda item 1.3
Addendum 3 – Agenda item 1.4
Addendum 4 – Agenda item 1.5
Addendum 5 – Agenda item 1.6
Addendum 6 – Agenda item 1.9
Addendum 7 - Agenda item 1.10
Addendum 8 – Agenda item 1.11
Addendum 9 - Agenda item 1.15
Addendum 10 - Agenda item 1.17
Addendum 11 - Agenda item 1.19
Addendum 12 - Agenda item 1.7
Addendum 13 - Agenda item 1.12
Addendum 14 - Agenda item 1.13
Addendum 15 - Agenda item 1.14
Addendum 16 - Agenda item 1.16
Addendum 17 - Agenda item 1.18
Addendum 18 - Agenda item 1.20
Addendum 19 - Agenda item 1.21

ANNEX 2

Co-signatories of AFCPs for WRC-07

	Addendum No . Agenda item	01				2				
		AlA	A2/1	A2/2	A2/3	A2.4	A2/5	A2/6		
1	Applicable proposals	AIA	A2/1	mara	mars	nen	Rais	PL6/0	Key:	
2	Algeria Angola								7:	Endorsement
3	Benin					с. Г		-	X	Rejection
4	Botswana	?	?	?	?	?	?	?		Pending decisi
5	Burkina Faso	?	2	?	?	2	?	2	DISUR.	Lenms deta
6	Brundi	?	?	?	?	?	?	?		
7	Camero on	,	2	7	,	2	?	,		
8	Cape Verde	23	~	A.	- 62	- a	· · ·	- 22		
9	Central African Rep.			1			- 1		-	
10	Comoros									
11	Congo (Rep. of the)									
12	Côte d'Ivoire	?	2	?	?	?	?	?	-	
13	Dibouti		· · ·							
14	Egypt	57	27							
15	Eritrea							-	-	
16	Ethiopia									
17	Gabon	?	?	?	?	?	?	?	-	
18	Gambia			-					-	
19	Ghana	?	2	?	?	2	?	?		
20	Guinea	17	2						-	
21	Guinea-Bissau							-	-	
22	Equatorial Guinea									
23	Libyan Arab Jamahiriya		352			0			-	
24	Kenya									
25	Lesotho									
26	Liberia	07	6 %	- 8		0				
27	Madagascar									
28	Malawi									
29	Mali	87	82			0			70	
30	Morocco									
31	Maritius								1	
32	Mauritania	67	87			8				
33	Mozamb ique									
34	Namibia	?	?	?	?	?	?	?		
35	Niger	?	?	?	?	?	?	?		
36	Nigeria	?	?	?	?	?	?	?		
37	Uganda						1		0	
38	Dem. Rep. of the Congo	17	87							
39	Rwanda									
40	Sao Tome and Principe									
41	Senegal	?	?	?	?	?	?	?	10	
42	Seychelles .									
43	Sierra Leone									
44	Somalia									
45	Sudan	?	?	?	?	?	?	?		
46	South Africa									
47	9.vaziland	1								
48	Tanzania			2.6						
49	Chad	?	?	?	?	?	?	?		
50	Togo	-	2			-				
51	Tunisia									
52	Zambia									
53	Zimbabwe	2	-			1				

ITU Development Forum 2008

http://www.itu.int/md/R07-WRC07-C/en

R2 & R3 (9 countries)

))) 790-862 MHz

))) 2.3-2.4 GHz

R1 & R3



International Mobile Telecommunications (IMT) Globally harmonized spectrum identified for use by IMT epresent IMT systems: 450-470 MHz (((represents an important step in the worldwide development of))) 698-862 MHz

> **3.4–3.6 GHz band (((** (no global allocation) Note:

- Higher frequencies: to face growth in densely populated areas.

- Lower frequencies to provide, at a reasonable cost, high speed mobile services everywhere, in particular in less densely populated areas.

IMT identified spectrum Committed to Connecting the World



	2 700-4 800 MHz						
Allocation to services							
Region 1	Region 2	Region 3					
3 400-3 600 FIXED FIXED-SATELLITE (space-to-Earth) Mobile 5.430A Radiolocation	3 400-3 500 FIXED FIXED-SATELLITE (space- to-Earth) Amateur Mobile 5.431A Radiolocation 5.433 5.282	3 400-3 500 FIXED FIXED-SATELLITE (space- to-Earth) Amateur Mobile 5.432B Radiolocation 5.433 5.282 5.432 5.432A					
5.431	3 500-3 700 FIXED FIXED-SATELLITE (space- to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433	3 500-3 600 FIXED FIXED-SATELLITE (space- to-Earth) MOBILE except aeronautical mobile 5.433A Radiolocation 5.433					

Different category of service: in Albania, Algeria, Germany, Andorra, Saudi Arabia, Austria, Azerbaijan, Bahrain, Belgium, Benin, Bosnia and ADD 5.430A Herzegovina, Botswana, Bulgaria, Burkina Faso, Cameroon, Cyprus, Vatican, Congo (Rep. of the), Côte d'Ivoire, Croatia, Denmark, Egypt, Spain, Estonia, Finland, France and French Overseas Departments and Communities in Region 1, Gabon, Georgia, Greece, Guinea, Hungary, Ireland, Israel, Italy, Jordan, Kuwait, Lesotho, Latvia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Lithuania, Malawi, Mali, Malta, Morocco, Mauritania, Moldova, Monaco, Mongolia, Montenegro, Mozambique, Namibia, Niger, Norway, Oman, Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Slovakia, Czech Rep., Romania, United Kingdom, San Marino, Senegal, Serbia, Sierra Leone, Slovenia, South Africa, Sweden, Switzerland, Swaziland, Chad, Togo, Tunisia, Turkey, Ukraine, Zambia and Zimbabwe, the band 3 400-3 600 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis subject to agreement obtained under No. 9.21 with other administrations and is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. 9.17 and 9.18 also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this band, it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed -154.5 dB(W/(m2 · 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the band 3 400-3 600 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). This allocation is effective from 17 November 2010. (WRC-07)

ITU Development Forum 2008

WRC-07 Final Acts

Committed to Connecting the World



FINAL ACTS WRC-07

The Final Acts record the decisions taken at the World Radiocommunication Conference, 2007 (WRC-07). They include the new and revised provisions of the Radio Regulations and associated Appendices, as well as the new and revised Resolutions and Recommendations adopted by the Conference. Statements made by Member States at the time of signing the Final Acts are also included.

 Table of contents

 Preamble

 Final Protocol

 Declarations and reservations

 Additional declarations and reservations

 Articles

 Appendices

 List of Resolutions and Recommendations approved

 for deletion by WRC-07

 Resolutions

 Recommendations

http://www.itu.int/publ/R-ACT-WRC.8-2007/en

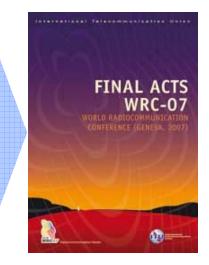
WRC-07 vs WRC-11 c

Committed to Connecting the World



WRC-07 (22.10-16.11.2007)

- 30 agenda items, 3100 proposals, 2800 del.!
- almost all services (terrestrial: FS, MS, BS, Amat.S, RAS, RLS, space: FSS, BSS, MSS, EESS, SRS, SO, MetSat, Amat.Sat)
- several applications: IMT, HAPS, HF, GMDSS



WRC-11 ([dates in 2011 to be confirmed])

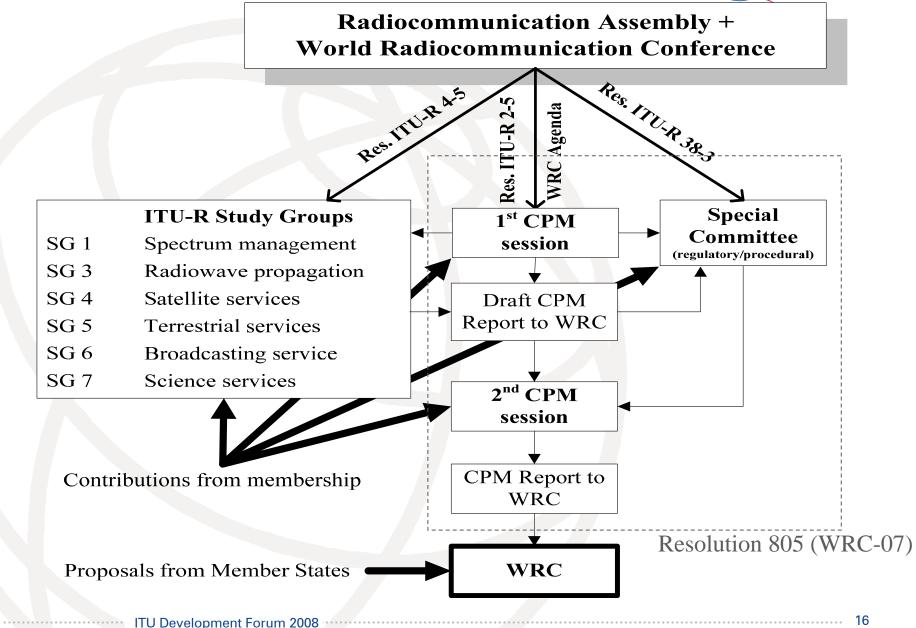
- 33 agenda items,

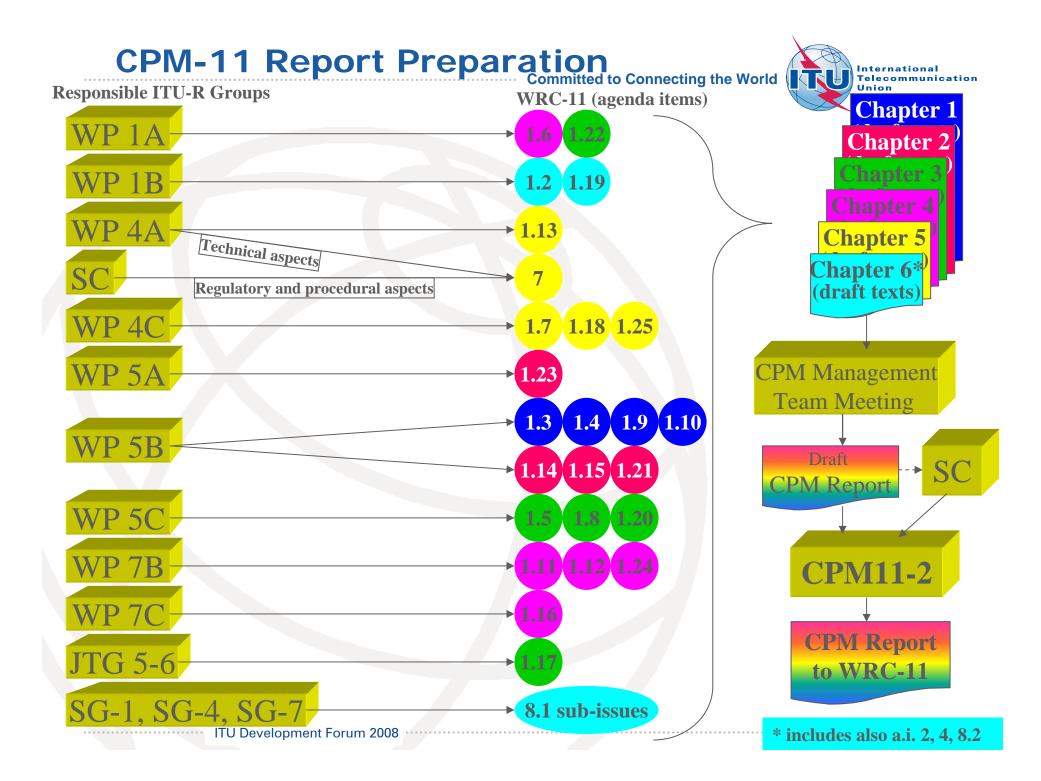
 again almost all services (terrestrial: RLS, AM(R)S, passive S, FS, BS, MS, Maritime MS, Amat.S, space: AMS(R)S, SRS, BSS, MSS, MetAids, RDSS, MetSat) and other issues (Res.951, SRDs, Cognitive Radio)
 and many applications and systems : UAS, ENG, HAPS, oceanographic radar, ...



Committed to Connecting the World







WRC-11 & Regional Groups Committed to Connecting the World



•APG2011-1, 06 – 08 March 2008, Bangkok, Thailand •APG2011-2, [not yet communicated]

Asia Pacific Telecommunity

"II" ASMG, 02 – 06 March 2008, Abu Dhabi, UAE •12th ASMG, [not yet communicated] Arab Spectrum Management Group

[not yet communicated]

frican Telecommunications Union



•CPG11-1, 20 – 22 February 2008, Paris, France •CPG11-2, 1 – 3 December 2008, Brussels, Belgium

European Conference of Postal and Telecommunications Administrations



•XI PCC.II, 22 – 25 April 2008, Washington, USA •XII PCC.II, [not yet communicated] Inter-American Telecommunication Commission

•1st meeting, 26 – 28 February 2008, Minsk, Belarus •2nd meeting, October 2008, Astana, Kazakhstan Regional Commonwealth in the field of Communications