The current situation in Sub-Saharan African countries about the status of the transition

JJ MASSIMA, Coordinator for Africa

Transition to digital TV broadcasting

- Moving from analogue to digital terrestrial television frees up scarce spectrum for other uses, especially mobile.
- All regions are keen to achieve digital switchover, and some countries have already managed to complete the process.
- The deadline of June 2015 set for the UHF band by the ITU Regional Radiocommunication Conference in Geneva in 2006 (RRC-06) for the migration from analogue terrestrial television to digital terrestrial television applies to Africa, the Middle East and Europe, as well as to the Islamic Republic of Iran.

Transition to digital TV broadcasting

- In our countries, national Administrations have worked together on a bilateral and multilateral basis to develop spectrum plans for digital terrestrial television.
- 4 Digital Migration summits have been organized by ATU and ITU .
- Workshops devoted to Spectrum management and Harmonization of calculations methods at the borders
- Worshops for notifications and assignations

- **Register to MIFR !!!**

ITU digital switchover symposium

ITU marked the 17 June 2015 digital switchover deadline by holding a Symposium at its headquarters in Geneva, Switzerland, to highlight the inherent advantages offered by digital terrestrial broadcasting.

This Symposium covered the following topics:

- Objectives of the transition to digital TV– technical and regulatory frameworks;
- The Analog to Digital Switchover – stocktaking worldwide;
- Advanced Technologies for Television;
- Building a sustainable ecosystem for Digital TV.

GE06 broadcasting Plans and the ITU MIFR after 17 June 2015

End of the Transition period

Except for the countries listed in footnote 7 of Article 12 of the GE06 Agreement:

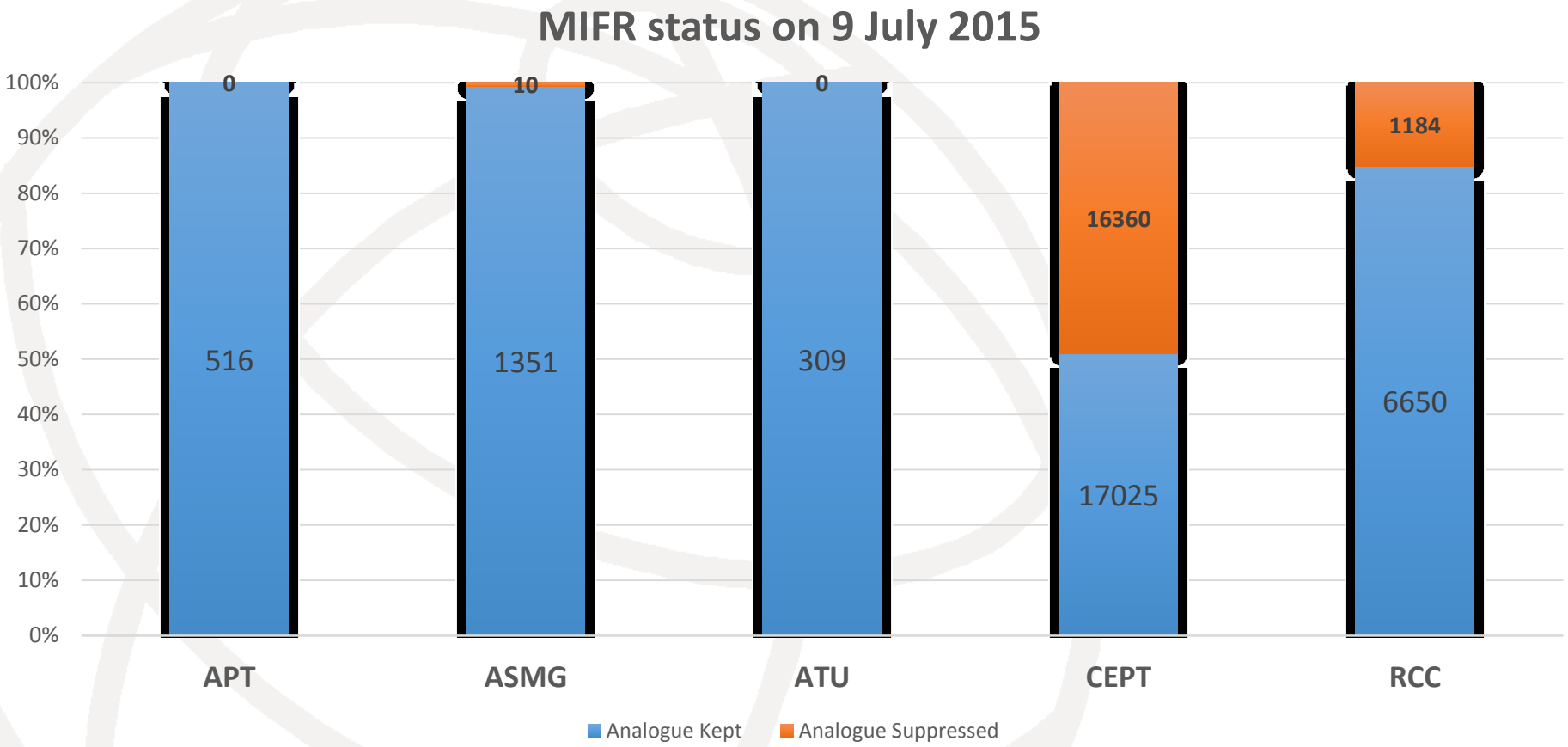
➢GE06 Plan

- All analogue assignments have been deleted from the Plan
- All Plan remarks with respect to analogue have been removed
- GE06 provisions are not applicable anymore to Analogue assignments.

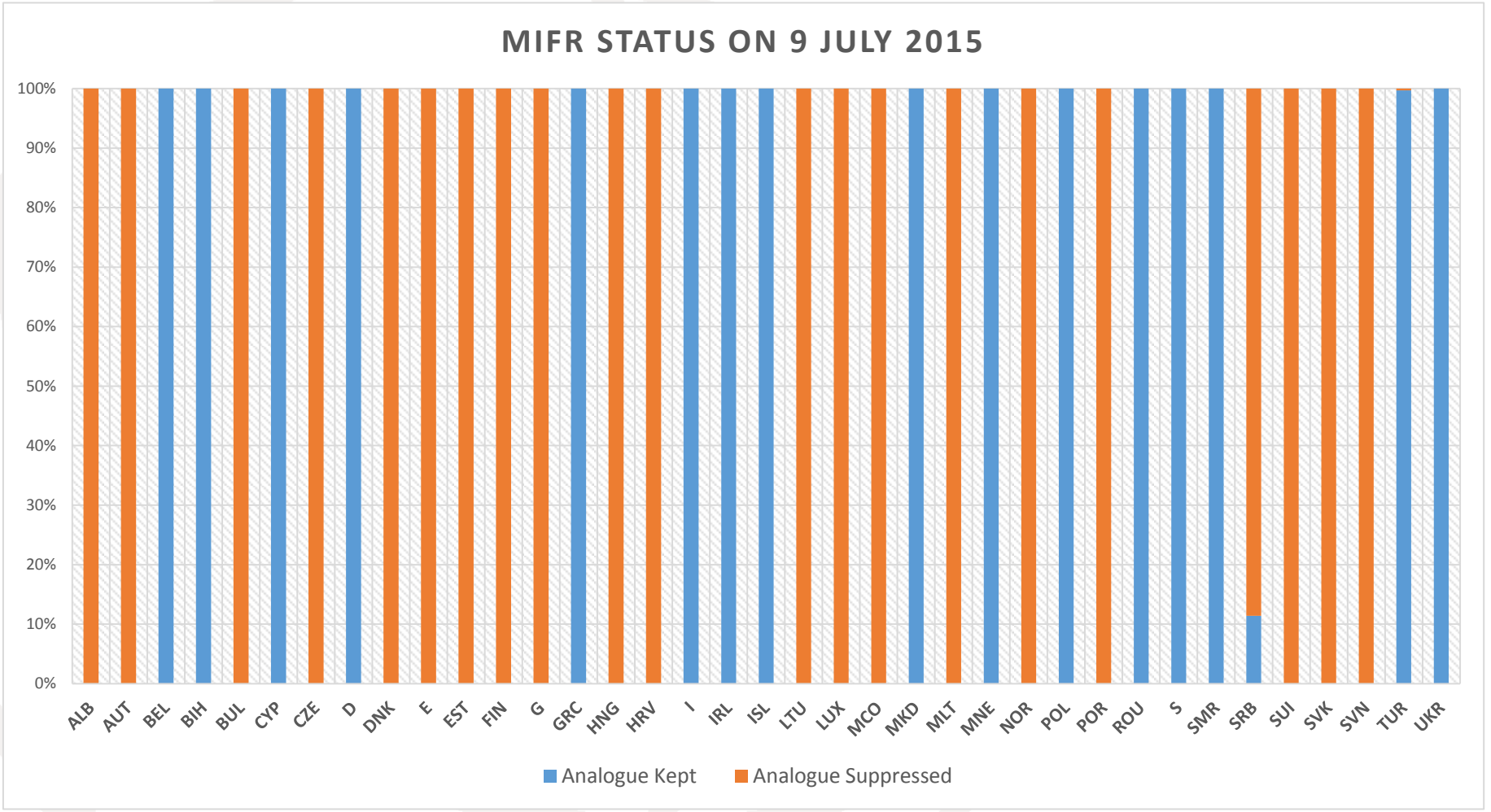
➢MIFR:

- Administrations were asked to confirm their decision to delete or keep the analogue assignments in the MIFR, knowing that they will be kept with unfavourable findings to 11.34. i.e., not causing any interference nor claiming protection.

Analogue at the end of transition per Sub Region



Analogue at the end of transition CEPT countries (%)

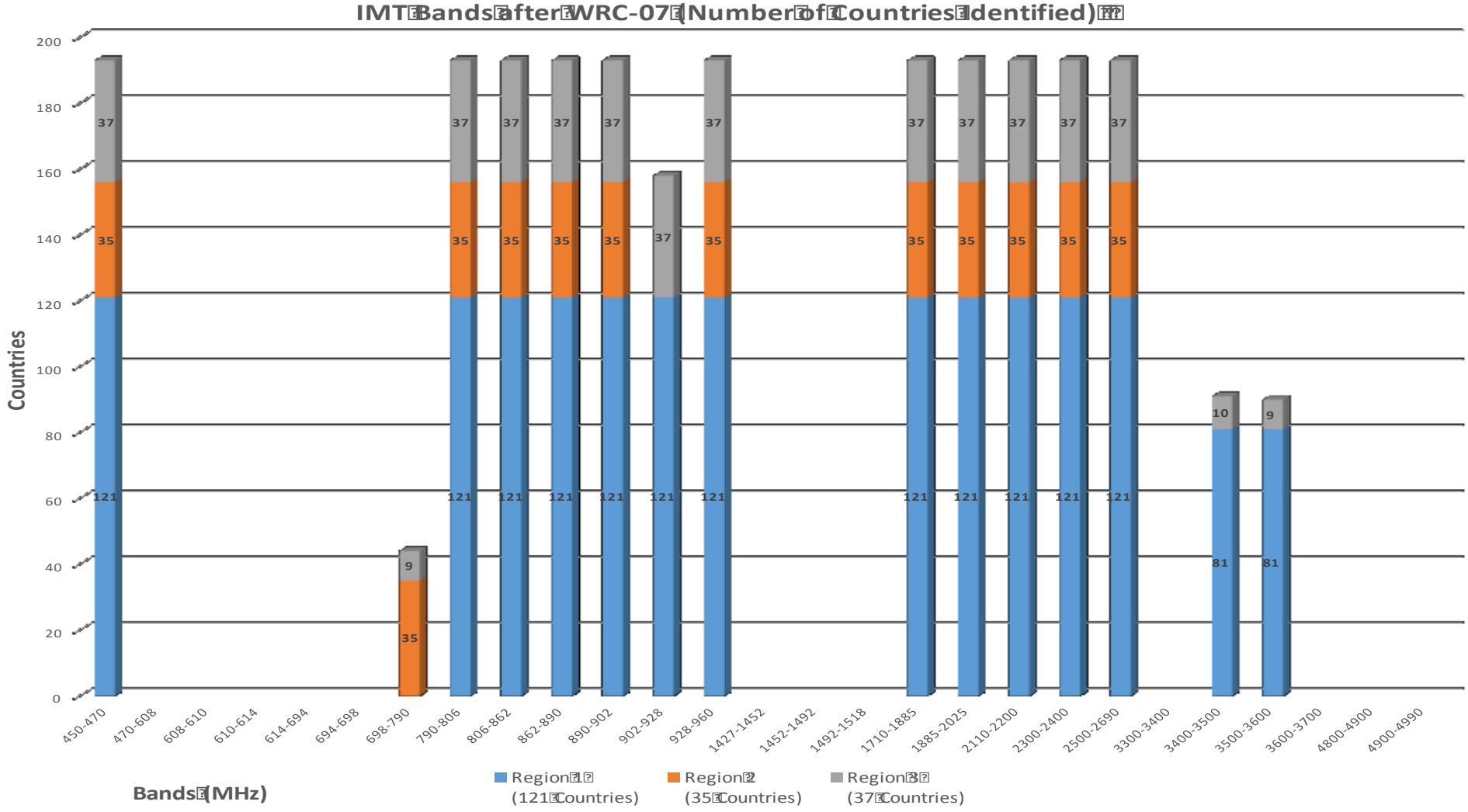


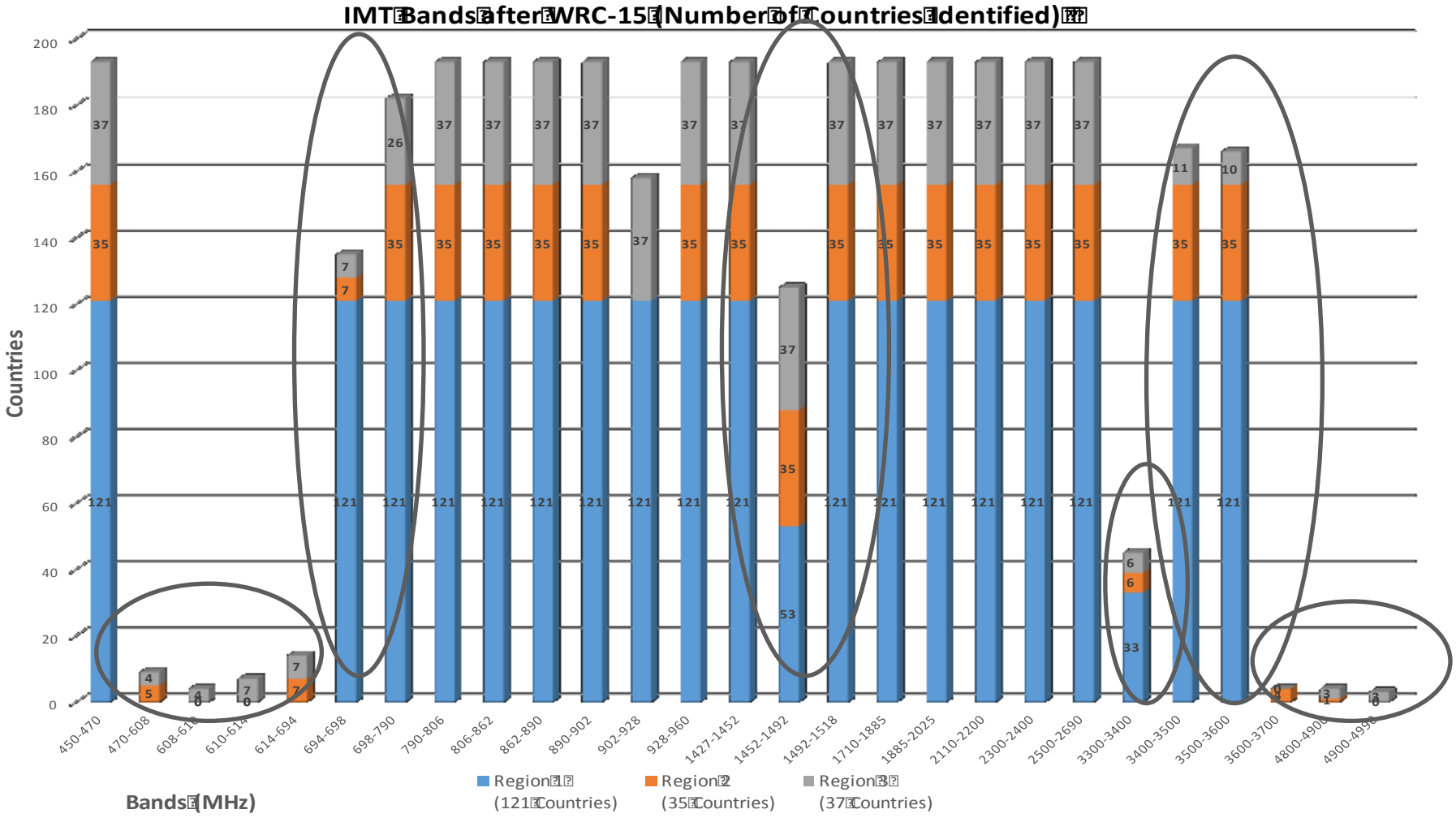
Importance of WRC-15 decisions

Agenda items 1.1 and 1.2

- Satisfy growing IMT broadband spectrum requirements:
  - 60% increase in IMT bands after WRC-15
  - total IMT spectrum of 1886 MHz

- Provide harmonization of IMT bands:
  - 39% increase in globally harmonized spectrum after WRC-15 318 MHz of harmonized bands in more than 80% of countries:
  - Secures future of other services through coordination procedures, technical restrictions, in some cases operation on a non-interference basis


IMT Bands after WRC-07 (Number of Countries Identified)
Countries
Bands (MHz)
Region 1 (121 Countries)
Region 2 (35 Countries)
Region 3 (37 Countries)
450-470
470-608
608-610
610-614
614-694
694-698
698-790
790-806
806-862
862-890
890-902
902-928
928-960
1427-1452
1452-1492
1492-1518
1710-1885
1885-2025
2110-2200
2300-2400
2500-2690
3300-3400
3400-3500
3500-3600
3600-3700
4800-4900
4900-4990


IMT Bands after WRC-15 (Number of Countries identified)
Countries
Bands (MHz)
Region 1 (121 Countries)
Region 2 (35 Countries)
Region 3 (37 Countries)
450-470
470-608
608-614
610-614
614-694
694-698
698-790
790-806
806-862
862-890
890-902
902-928
928-960
1427-1452
1452-1492
1492-1518
1710-1885
1885-2025
2110-2200
2300-2400
2500-2690
3300-3400
3400-3500
3500-3600
3600-3700
4800-4900
4900-4990

Digital Terrestrial
Television
Broadcasting
(DTTB)
DSO database

Website

- Summary of the basic information from countries
- Relevant events (e.g. workshops, frequency coordination meetings, seminars)
- Relevant publications (e.g. ITU-R and ITU-D documents, roadmaps, workshop presentations)
- Relevant websites (e.g. ITU-R and ITU-D, broadcasting organizations, GE-06)
- Contacts
- Information sources (list of relevant surveys, questionnaires of the ITU-D and ITU-R and other sources)
- Accessible both form BDT and BR web pages

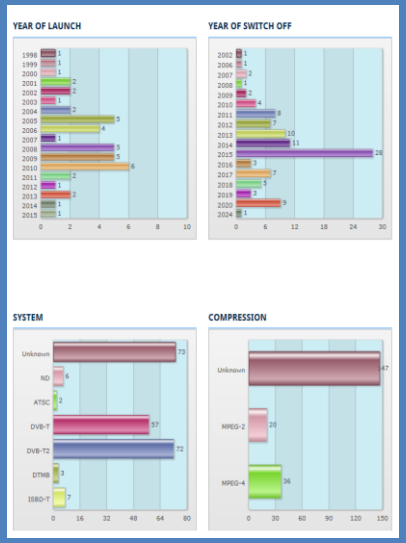
Circular Letter BDT/IEE/SBD/DM/014 from the BDT Director (23 February 2015)

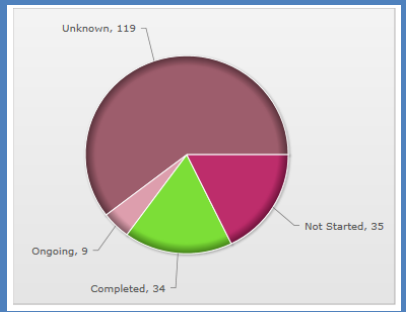
- Given the dynamically changing status of the Digital Terrestrial Television (DTT) deployment and in order to enable all administrations to benefit from the latest status and information concerning the Digital migration, **Administrations are invited to make the necessary update to ensure that their actual status and data are correctly reflected on the portal.**

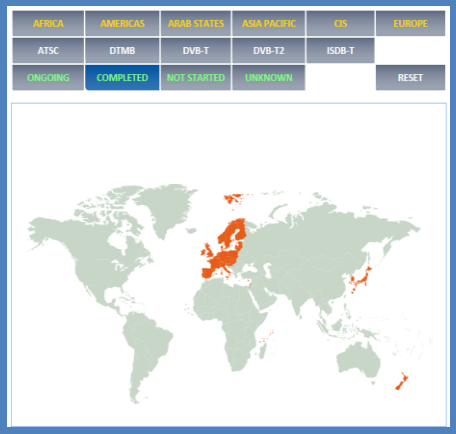
Website

http://www.itu.int/en/ITU-D/Spectrum-Broadcasting/Pages/DSO/Default.aspx

Website features





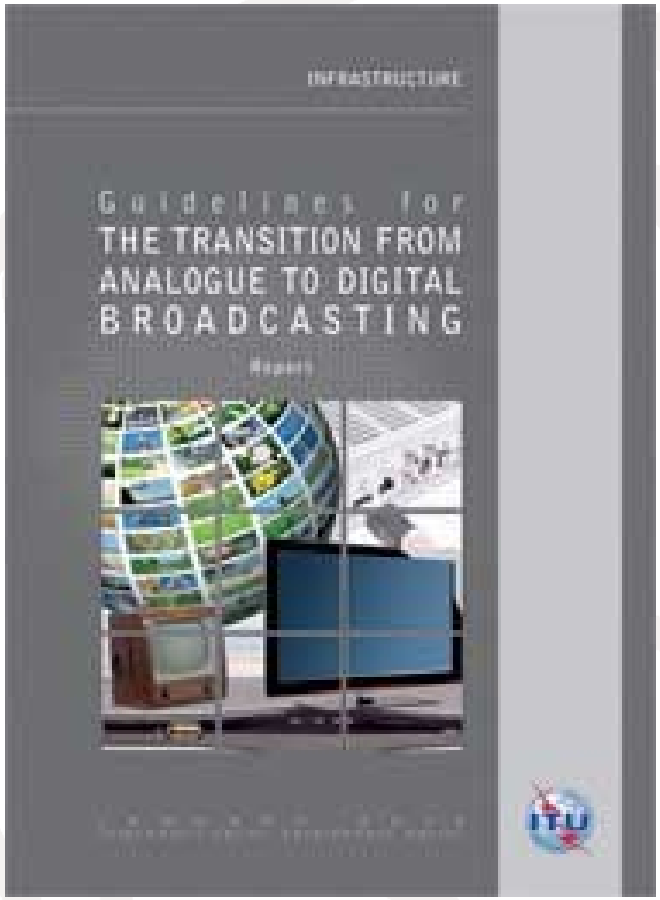


Country	Year Of Launch	DSO Date	TV Standard	Compression Format	Status
Andorra			DVB-T	MPEG-2	Completed
Austria	2006	2011	DVB-T DVB-T2	MPEG-2 MPEG-4	Completed
Belgium	2005		DVB-T DVB-T2	MPEG-2	Completed
Croatia	2009	2010	DVB-T DVB-T2	MPEG-2	Completed
Cyprus		2011	DVB-T		Completed
Czech Rep.	2005		DVB-T	MPEG-2 MPEG-4	Completed
Denmark	2006	31/10/2009	DVB-T DVB-T2	MPEG-4	Completed
Estonia	2006	2010	DVB-T DVB-T2	MPEG-4	Completed
Finland	2001	2007	DVB-T DVB-T2	MPEG-2 MPEG-4	Completed
France	2005	2011	DVB-T	MPEG-2 MPEG-4	Completed
Germany	2002	2008	DVB-T	MPEG-2	Completed
Hungary	2008	2013	DVB-T	MPEG-4	Completed
Ireland	2011	24/10/2012	DVB-T	MPEG-4	Completed
Israel		2011	DVB-T	MPEG-4	Completed
Italy	2004	2012	DVB-T DVB-T2	MPEG-2	Completed
Japan	2011		ISBD-T		Completed
Korea (Rep. of)		2012	ATSC		Completed
Latvia	2009	2010	DVB-T	MPEG-4	Completed
Lithuania	2008	2012	DVB-T	MPEG-4	Completed
Luxembourg		2006	DVB-T	MPEG-2	Completed
Malta		2011	DVB-T	MPEG-2	Completed
Netherlands	2003	2011	DVB-T	MPEG-2	Completed
New Zealand	2008	2013	DVB-T DVB-T2	MPEG-4	Completed
Norway	2008	2009	DVB-T	MPEG-4	Completed
Poland	2009	2013	DVB-T	MPEG-4	Completed
Portugal	2009	2012	DVB-T	MPEG-4	Completed
Seychelles		2013	DVB-T2		Completed
Slovak Republic	2009	2012	DVB-T DVB-T2	MPEG-2 MPEG-4	Completed
Slovenia	2006	2011	DVB-T	MPEG-4	Completed
Spain	2000	2010	DVB-T	MPEG-2	Completed
Sweden	1999	2007	DVB-T DVB-T2	MPEG-2	Completed
Switzerland	2001		DVB-T	MPEG-2	Completed
United Kingdom	1998	2012	DVB-T DVB-T2	MPEG-2 MPEG-4	Completed
Vatican			DVB-T		Completed

34 Countries

ITU-BDT Assistance in AFR Region

Guidelines for Transition to Digital Broadcasting



- Intended to provide information and recommendation
  - On policy, technologies, network planning, customer awareness and business planning
  - for the smooth transition to Digital Terrestrial Television Broadcasting (DTTB) and introduction of Mobile Television Broadcasting
- Prepared in 2010 for Africa
  - 1st Revision (2012) for ASP adding a section on archives migration
  - 2nd revision (2014) for global including Satellite TV, Cable TV, IPTV

http://www.itu.int/en/ITU-D/Spectrum-Broadcasting/Documents/Guidelines%20final.pdf

ITU Broadcasting Projects for AFR

- **ITU-KCC-MSIP (RO Korea)** : Roadmap for Transition from Analogue to Digital Terrestrial Television Broadcasting in Asia and the Pacific, **Africa,** and Americas (countries selected by Korea)

- **ITU-BDT**: Roadmaps for Transition from Analogue to Digital Terrestrial Television Broadcasting
  - 10 countries assisted

Committed to connecting the world

What would you like to search for?

1865 2015

ITU | General Secretariat | Radiocommunication | Standardization | Development | ITU Telecom | Members' Zone | Join ITU

About | Areas of Action | Accessibility | Join ITU-D | Partners | Projects | Publications | Regional Presence | TDAG | Study Groups

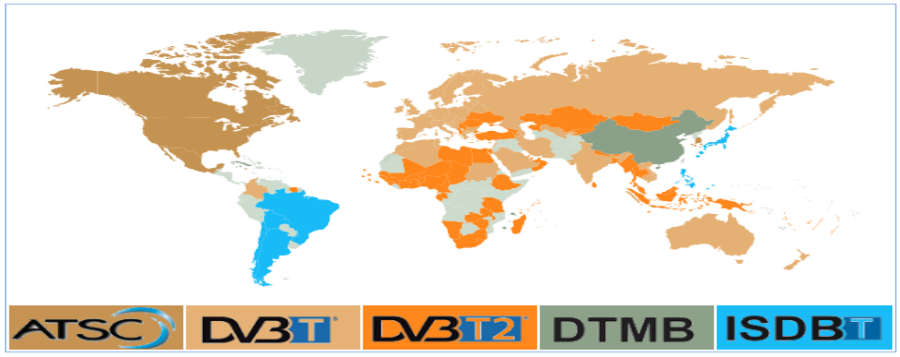
Status of the transition to Digital Terrestrial Television Broadcasting : Data Miner

YOU ARE HERE HOME > ITU-D > SPECTRUM AND BROADCASTING > STATUS OF THE TRANSITION TO DIGITAL TERRESTRIAL TELEVISION BROADCASTING : DATA MINER

SHARE

This portal provides information on the status of the deployment of Digital Terrestrial Television (DTT)

AFRICA	AMERICAS	ARAB STATES	ASIA PACIFIC	CIS	EUROPE
ATSC	DTMB	DVB-T	DVB-T2	ISDB-T	GE06
ONGOING	COMPLETED	NOT STARTED	UNKNOWN		RESET



Country	Year Of Launch	DSO Date	TV Standard	Compression Format	Status
Afghanistan			ND		
Albania		17/06/2015	DVB-T2	MPEG-4	Ongoing
Algeria	2010	2015	DVB-T DVB-T2	MPEG-2 MPEG-4	Ongoing
Andorra	2006	25/09/2007	DVB-T	MPEG-2	Completed
Angola					Ongoing
Antigua and Barbuda					
Argentina	2010	2019	ISBD-T		
Armenia	2015	2015	DVB-T2		Ongoing
Australia	2001	10/12/2013	DVB-T	MPEG-2	Completed

MENU

- Home
- Summary
- Data Miner
- Figures

Related Events | Related Publications | Relevant Websites

Data Miner

- moros (Union of the), 5.06.2015
- Maghreb coordination meeting, Tunisia, , 16.05.2015 - 19.05.2015
- "Transition to digital technology, policy and regulation seminar" for rural broadcasting service providers , Mongolia, Ulaanbaatar, 22.04.2015 - 23.04.2015
- "Transition to digital technology, policy and regulation" for rural broadcasting service providers , Mongolia, Ulaanbaatar, 22.04.2015 - 23.04.2015
- la migration de la television vers le numerique, le choix de la norme de diffusion dans les pays membres, l'IPTV, la television numerique par satellite, la video ala demande et le deploiernent des nouvelles technologies a large bande issues du dividende numerique telles que la telephonic mobile de la quatrieme generation (4G) et le Wimax, Comoros (Union of the), ARUSHA, 11.03.2014 - 13.03.2014

Full List >

International Telecommunication Union

Committed to connecting the world

Thank you!