


12 March 2012

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The challenges of Switchover


- **Legal and Political issues**
 - Program editors, Licensing, number and ownership of Multiplexes, Network Operators, Public TV services, commercial TVs, local TV Standards, Analogue Switch Off (ASO), etc
- **Technical issues**
 - Standards, compression system (MPEG2/MPEG4), Spectrum availability, network planning (MFN/SFN), coverage areas, end users equipment (Set-Top Box/ D-TV), etc.
- **Economical related issues**
 - Introduction of new business model, transition costs, subsidizing vulnerable people, etc.
- **Allocation of Digital dividend**

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ITU Activities for the Transition




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- **Regional Radiocommunication Conference 2006 (RRC-06)**
 - Frequency plan for the digital terrestrial broadcasting
 - Deadline to switch over for ITU Region 1 countries: 17 June 2015 (some countries and bands 2020)
- **Software Packages for spectrum management**
 - Compatibility analysis in the GE 06 Frequency bands
 - Spectrum Management Systems for Developing Countries (SMS4DC)
- **Recommendations, Reports and Handbooks on digital broadcasting technologies**
- **ITU-D Question 11-3/2**
- **Workshops, trainings**

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Approach and Working Methods



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NRT	<ul style="list-style-type: none"> NRT works as advisor bringing wider stakeholder focus Assists develop the roadmap and prepares agreed parts. Established by Minister/decreed/law ..
Government Agencies	<ul style="list-style-type: none"> Responsible for establishing policy and Government endorsement, legislation, and budgets for Government funded activity Preparing Regulations, Licence models, Service/Spectrum planning, standards etc Legal aspects of Licence allocation process/licence issue and oversight.
Broadcasters Transmission Providers	<ul style="list-style-type: none"> Transmission Network Construction/Operation Recovery of Analogue equipment post switch off Working with all of the above on Analogue Switch Off Processes Providing programming for the digital network
ITU Expert	<ul style="list-style-type: none"> Introduce the ITU developed Guidelines for Migration as a resource Facilitate NRT in development of Roadmap/ TRANSFER KNOWLEDGE SHARE experience of other countries as relevant to the discussion Consults with NRT, and other stakeholders to clarify needs of the country Assist with framework and content of roadmap document

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Assistance provided by BDT

Africa

- Guidelines
- Three countries selected for implementation of the Guidelines (i.e. preparation of the roadmap)
 - Ethiopia
 - Mali
 - Angola
- Additional assistance:
 - Zambia ,Cameroon(workshop)
 - Congo, Uganda, Swaziland, Burkina Faso, Rwanda, Sao Tome & Principe (assessment)
- ITU-ATU Workshops

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Assistance provided by BDT

Asia Pacific

- Guideline extension for Asia Pacific
- Five countries selected for implementation of the Guidelines
 - Mongolia, Cambodia Tonga, Sri Lanka, Nepal
 - Cooperation with ABU
- Additional assistance:
 - Bhutan (assessment)
 - Co-organizing workshops, seminars with ABU and AIBD
 - Thailand (training)
- Cooperation agreement among ITU-ABU-AIBD
- Conversion of analogue archives to digital

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Assistance provided by BDT


CIS

- Assistance:
 - Georgia (assessment)
 - Organizing workshops, seminars in the region
- Project in Kyrgyzstan
 - Interactive Multimedia Digital Broadcasting (IMDB) Networks in the Kyrgyz Republic (area with mountainous terrain)

Americas

- Suriname: workshop
- Participation at the CBU General Assembly (2010)
- CoE workshops (Jamaica, Trinidad and Tobago, 2010 Dec)
- CBU-ITU workshop in Barbados (2011 August)

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Assistance provided by BDT

EUR

- PP Resolution 126
 - Assistance to Serbia
- Ministerial Roundtable in Belgrade, Serbia, 2009
- Regulatory Roundtable in Gyor, Hungary, 2011
- Workshops
- Web portal (Romania)

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Regional initiatives

- In all the regions Digital broadcasting and transition
 - Africa
 - Asia Pacific
 - Arab
 - Americas
 - Europe (Central and Eastern Europe)
 - CIS

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Major events during the last period / 1

- **ITU Telecom 2011, Geneva**
 - Ministerial Roundtable, 26 October : The Transition to Digital Television and the Digital Dividend
<http://world2011.itu.int/digital-television>
- **The Fifth World Electronic Media Forum**
 - Accra, Ghana, 16-18 November 2011
<http://www.aub-uar.org/wemf/>
 - Session 1, Migration to Digital Radio and Television
 - Accra Declaration:
http://www.ebu.ch/CMSimages/en/DW_%20THE%20ACCRA%20DECLARATION%20final%20_2_tcm6-73225.pdf
- **Digital Migration and Spectrum Policy Summit (ITU-ATU)**
 - Nairobi, Kenya, 29 November – 1 December 2011
<http://atu-uat.org/index.php/en/reports/digital-migration-reports>
 - Recommendations
http://atu-uat.org/images/eventlist/events/files/reportsfolder/Digital%20Migration%20&%20Spectrum%20Policy%20Summit_Recommendations.pdf?r=0.9003948695026338

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Major events during the last period / 2



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•WRC-12

- 23 January – 17 February 2012, Geneva
<http://www.itu.int/ITU-R/index.asp?category=conferences&mlink=wrc-12&lang=en>
- Agenda item 1.17

consider results of sharing studies between the mobile service and other services in the band 790-862 MHz in Regions 1 and 3, in accordance with Resolution **749 (WRC-07)**, to ensure the **adequate protection of services to which** this frequency band is allocated, and take appropriate action

•Workshop on Transition to Digital Terrestrial Television Broadcasting

- 27 February – 2 March 2012, Bangkok, Thailand
<http://academy.itu.int/moodle/course/view.php?id=353>

•Connect Arab Summit

- 5 – 7 March 2012, Doha Qatar
<http://www.itu.int/ITU-D/connect/arabstates/>

Workshops, seminars, trainings

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Forthcoming events



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- **ITU – ATU Workshop and coordination meetings**
Transition to digital broadcasting, digital dividend, frequency re-planning/coordination
 - March 2012 Bamako, Mali and April 2012 Kampala, Uganda
 - **Digital Transition and Spectrum Policy Summit (ITU-ATU)**
 - Nigeria, June/July 2012
 - **ITU- CTU Workshop**
Transition to digital broadcasting, spectrum management
 - May 2012 Barbados
 - **ITU CoE training**
Spectrum management, digital dividend, March 2012 Greece
 - **ITU- Workshops in Poland (Europe, CIS)**
Spectrum management, frequency coordination, digital dividend
 - May 2012
 - **ITU Workshops in CIS**
Transition to digital broadcasting, digital dividend
- FTRA12 in Libreville , Gabon, June 2012(Transition and Digital dividend opportunities)**

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Contact in BDT GENEVA
ITU/BDT/IEE/TND
tnd@itu.int