




Regional Development Forum for the Americas Region

(Mexico City, México, 18-20 April 2012)





ITU Radiocommunication Sector and the Americas Region

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Roles of ITU Radiocommunication Sector






international regulations



global standards & guidelines



assistance to administrations

- ✓ Rights of access to the spectrum
- ✓ Efficient use of spectrum
- ✓ Operation free from interference
- ✓ Economies of scale
- ✓ Interoperability and roaming
- ✓ Global harmonization
- ✓ Guidelines for national & regional regulations

**GOOD QUALITY
AND LESS COSTLY EQUIPMENT**

**MORE FAVORABLE INVESTMENT
ENVIRONMENT (CLEAR & STABLE)**

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Radio Regulations

- Intergovernmental treaty covering both **legal, operational** and **technical** provisions, serves as a supranational instrument for the optimal international management of the **radio spectrum**
- Defines rights and obligations of ITU Member States to access spectrum
- Updated every 3 to 4 years



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WRC-12 Participation of the Americas Region

Antigua and Barbuda 0/0	Colombia 21/0	Guyana 1/0	Saint Kitts and Nevis 0/0
Argentina 18/0	Costa Rica 14/3	Haiti 1/0	Saint Lucia 0/0
Bahamas 0/0	Cuba 9/0	Honduras 5/0	Saint Vincent and the Grenadines 0/0
Barbados 3/0	Dominica 0/0	Jamaica 6/0	Suriname 3/0
Belize 0/0	Dominican Republic 4/0	Mexico 34/3	Trinidad and Tobago 7/0
Bolivia 0/0	Ecuador 7/0	Nicaragua 1/0	United States 138/17
Brazil 29/0	El Salvador 6/0	Panama 4/0	Uruguay 7/0
Canada 43/0	Grenada 1/0	Paraguay 13/0	Venezuela 8/0
Chile 7/0	Guatemala 3/0	Peru 0/0	


Legend:
Member States/Observers

The three good news from WRC-12

Mobile broadband/IMT spectrum

- ✓ **800 MHz:** sharing problems resolved
- ✓ **700 MHz:** allocation to mobile service globally available from 2015
- ✓ **Additional spectrum:** to be considered by WRC-15





ITU-R Studies for WRC-15 on IMT

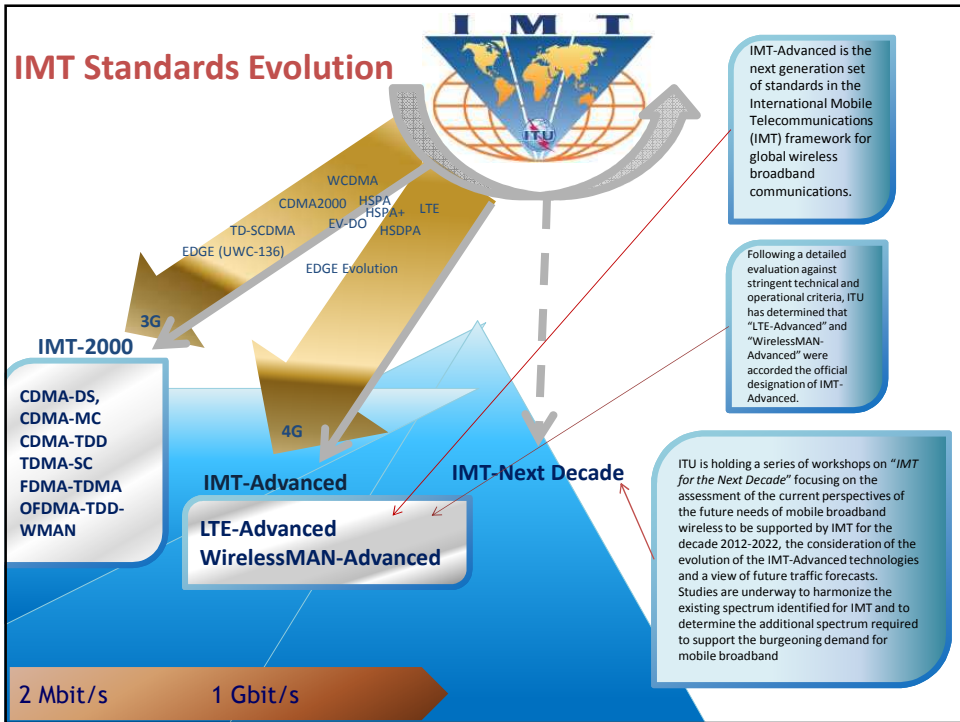
Agenda items for WRC-15 (Resolution 807 (WRC-12)):

1.1 to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of **terrestrial mobile broadband applications**, in accordance with Resolution **233 (WRC-12)**;

1.2 to examine the results of ITU-R studies, in accordance with Resolution **232 (WRC-12)**, on the **use of the frequency band 694-790 MHz by the mobile**, except aeronautical mobile, service in Region 1 and take the appropriate measures;

Spectrum requirements for the mobile service
including suitable frequency ranges, and other specific requirements
(WP 5D)

Spectrum sharing and compatibility with other services
including consolidation of draft CPM text
(JTG 4-5-6-7)





Standards



LTE-Advanced 

and

WirelessMAN-Advanced 

technologies were each determined to have successfully met all of the criteria established by ITU-R for the first release of IMT-Advanced.



Radiocommunication activities for the Americas Region

BDT Operational Plan/2012

Action 11861	Expert meeting on SMS4DC and transition from analog to digital broadcasting
Action 11908	<i>Emergency communications</i>
Action 11909	<i>Digital broadcasting</i>
Action 11910	<i>Broadband access and uptake in urban and rural areas</i>

Digital Broadcasting/objective: To assist Member States in making a smooth transition from analogue to digital broadcasting.

Broadband access/objective: To assist Member States in the development of broadband access in urban and rural areas.



Caribbean
Telecommunications
Union

& the Digital Dividend

**RESOLUTION OF THE 14TH GENERAL CONFERENCE OF MINISTERS
ON 7TH DECEMBER 2011 IN BARBADOS**

Coordination of the transition to Digital Television Broadcasting and the Allocation of the Digital Dividend in the Caribbean Region

Recognising

- a) That the UHF spectrum (470-862 MHz) is currently used by several countries in the Caribbean region to provide TV broadcasting,
- b) That the transition to digital TV broadcasting will release significant amounts of this spectrum that may be used by mobile services as part of the digital dividend,
- c) That in order to avoid harmful interface between broadcasting services, this transition can be implemented efficiently only with prior agreement at a regional level, on compatible frequencies to be used by each country,

Resolves

- a) To mandate the Secretariat, as part of the activities undertaken in response to the *Anguillan Resolution* (18th April 2007), to pursue, as a matter of urgency and with all countries of the Caribbean region, **the coordination of the use of the UHF spectrum** in order to maximise the benefits of the transition to Digital TV broadcasting and the Digital Dividend and minimise interference.
- b) **To carry out this activity in association with the International Telecommunications Union**, relying on the existing CTU structure (spectrum management steering committee and spectrum management task force) to report on the results of this activity to the 15th General Conference of Ministers.




CITEL & the Digital Dividend

RESOLUTION PCC.II/RES. 76 (XVII-11): creation of an ad hoc group to address the digital dividend spectrum resulting from the digital television transition and opportunities for application convergence .

Considering that member states across the Americas have started to plan for and implement the transition from analog to digital television; that member states are faced with many challenges as they transition from analog to digital television; that the transition from analog to digital television will result in a “digital dividend” of spectrum that could be made available for other radiocommunication services, including broadband.

Decision PCC.II/DEC. 119 (XVII-11): Survey of current and planned use of the bands 54-72 MHz / 76-88 MHz / 174-216 MHz / 470-512 MHz / 512-698 MHz / **698-806 MHz**

 **PCC.II/REC. 30 (XVIII-11)**

FREQUENCY ARRANGEMENTS OF THE 698–806 MHz BAND IN THE AMERICAS FOR BROADBAND MOBILE SERVICES

The XVIII Meeting of Permanent Consultative Committee II: Radiocommunications including Broadcasting (PCC.II),

RECOMMENDS that CITEL Administrations that plan to use the 698 to 806 MHz band for broadband mobile services, consider for such segment the adoption of one of the channeling options specified in the Draft Revision of ITU-R Recommendation M.1036-3, including the related notes, adopted in the framework of ITU-R Study Group 5, as described below:

1.1 Option 1:

1.2 Option 2:

& the Digital Dividend

✓ CTU (Caribbean Telecommunication Union) meeting on Transition to digital television (Port of Spain, 2-3 April 2012)

To provide guidance to CTU on the best practice aspects of transition to digital TV and overview of standards and recommendation to help the Caribbean region on future coordination of frequencies.

✓ ITU Seminar on Transition to Digital TV (Uruguay, 2-4 May 2012)


To provide overview, debate and discussion on best practice aspects of transition to digital TV as well as the challenges of Digital Dividend for South American countries and other Latin American administrations.

✓ ITU Sub-regional Workshop on Spectrum Management (Bogotá, 7-11 May 2012)

To provide capacity building for the Latin American region on current practices in spectrum management at national and international level.

✓ ITU Regional Workshop and Frequency Coordination meeting on the Transition to Digital Terrestrial Television and the Digital Dividend (Barbados, 21-25 May 2012)

ITU has been working with CTU and CBU to set up a frequency coordination group of the Caribbean region administrations to establish a harmonized frequency plan enabling both the transition to digital TV broadcasting and the effective use of the digital dividend. The workshop aims at discussing best practice aspects of transition to digital TV as well as overview of digital dividend; It will also include an initial frequency coordination exercise between attending Caribbean administrations for the minimization of harmful interference and protection of existing services during the transition to digital TV.



Program for the Regional Workshop and Frequency Coordination Meeting on the Transition to Digital Terrestrial Television and the Digital Dividend (Barbados, 21-25 May 2012)

	21 May 2012	22 May 2012	23 May 2012	24 May 2012	25 May 2012
	Digital Television Transition	Digital Television Transition	Digital Television Transition	Digital Television Transition	Digital Television Transition
09:00	Opening: Why digital migration matters?	Frequency coordination	Frequency coordination	Frequency coordination	Frequency coordination
09:30	Digital Migration worldwide - Status Report & Roadmap for transition				
10:00	Policy and Regulatory aspects				
10:30	Pause	Pause	Pause	Pause	
11:00	The cost of migration	Frequency coordination	Frequency coordination	Frequency coordination	Frequency coordination
11:30	Implementation aspect				
12:00	Communication strategies				
12:30	Déjeuner	Déjeuner	Déjeuner	Déjeuner	Déjeuner
	Digital Television Transition				
14:00	Technical aspects - Frequency coordination and network channeling	Frequency coordination	Frequency coordination	Frequency coordination	Frequency coordination
14:30	Country experiences				
15:30	Pause	Pause	Pause	Pause	
	Digital Dividend	Frequency coordination	Frequency coordination	Frequency coordination	Formal actions to be taken by Caribbean administrations with the ITU for the use of the UHF band
16:00	What is the Digital Dividend?				
16:20	Importance of Digital Dividend harmonization				
16:40	Broadband: future mobile services				
17:00-17:30	Discussions				Closure

