

SPECTRUM MANAGEMENT ACTIVITIES OF ITU / BDT / TND

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September 2010

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TECHNOLOGIES AND NETWORKS DEVELOPMENT (TND)



- Mandate of the Unit
- WSIS: Action Line C2
- Doha 2005: Programme 2
- Hyderabad 2010: Programme 1

 Assist Member States and ITU-D Sector Members to maximize the utilization of appropriate new technologies

 Assists developing countries to plan, build, operate, upgrade, manage and maintain technologies applicable in their networks and services

 Applied research and the transfer of technological know-how

PROGRAMME 2 (Doha 2006): Information and communication infrastructur and technologies development Priorities are given to the following technologyrelated domains: 1.1 Spectrum management and radio monitoring 1.2 Broadcasting 1.3 Network planning •1.4 Mobile terrestrial communications •1.5 Innovative services/applications networks

PROGRAMME 1 (Hyderabad 2010): Information and communication infrastructure and technologies development

Priorities areas:

- 1 Spectrum management and radio monitoring
- 2 Broadcasting
- 3 Next Generation Networks
- 4 Mobile communications (2G, 3G, 4G, etc.)
- 5 Broadband networks
- 6 Rural communications
- 7 Outside plants

TASKS WITHIN PROGRAMME 2



 Creation of tools Creation of training material Assistance to members Information sharing The Programme is carried out by various means, including symposia, workshops, conferences, seminars and expert advice.

TND Activities



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Technology-oriented training material developed and presented in all regions • Assistance to members **Network engineering and dimensioning** (Wireline, Wireless, Mobile), Spectrum management **Transition to digital broadcasting** Partnerships **United Nation agencies and other** stakeholders, international and regional organisations

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Developing principles and techniques for effective spectrum management
Advising on practical questions from developing countries on spectrum management and broadcasting
Providing an opportunity for expert and high-level consultation for senior personnel from developing countries

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Providing information on various aspects of sound and television broadcasting systems/networks and of spectrum management systems (planning, engineering, operations, management and economics).
Evaluating existing systems and participate in the evaluation of tenders for equipment

 Participating in seminars and courses organized at ITU Headquarters or elsewhere on specialized aspects of broadcasting and spectrum management subjects

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SPECTRUM MANAGEMENT AND RADIO MONITORING



The frequency spectrum is recognized as a "scarce resource"

 efforts to strengthen administrations' national regulatory bodies in the fields of frequency planning and assignment, spectrum management and radio monitoring.

 assisting developing countries to better plan and manage the use of their radio spectrum and establishing their national frequency management system

SPECTRUM MANAGEMENT ACTIVITY EXAMPLES / 1



SMS4DC (Spectrum Management Software for Developing Countries)

- Developed by BDT close cooperation with the ITU-R sector
- Recent developments: monitoring link, Google Earth
- Providing training

2008

- SMS4DC Trainings
 - Gambia, Bangladesh, Yemen, Lebanon
- Presentations
 - Buenos Aires (BR Seminar), Johannesburg
 - Regular information to administrations, delegates
- · 2009
 - Final Approval Test of version 3 (monitoring, Google Earth)
- ITU-D SG2, Resolution 9

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SPECTRUM MANAGEMENT ACTIVITY EXAMPLES / 2



Assistance to developing countries

 spectrum management assessments, revising legislation, spectrum pricing, coordination procedures
 assisting in spectrum management projects
 2008-2010

- spectrum management assessments

 Benin, Gambia, Samoa, Vanuatu, East-Timor, Tonga, Gabon, Sierra-Leone, Zimbabwe, Barbados, Cambodia, Laos

 assisting in spectrum management projects

 Angola, Colombia

 Satellite communication:

 Mongolia, Sri Lanka, Bangladesh

 Spectrum pricing
 - Kenya



BROADCASTING

Digitization is completely transforming the sound and television broadcasting sector.

 impart information to broadcasters and service providers to all aspects of digital conversion

 provide advise in the area of implementation of digital technology and development of relevant human resources

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BROADCASTING ACTIVITY EXAMPLES



 Transition from analogue to digital Roadmap project for Africa • ITU-D SG2 Question 11-2/2 (after WTDC-10: 11-3/2) **Cooperation with regional broadcasting unions** • e.g. WBU, EBU, ABU, CBU Delivering seminars for capacity building Assistance to developing countries Conversion of audiovisual archives from analogue to digital



Thank you !

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