SPECTRUM MANAGEMENT ACTIVITIES OF ITU / BDT / TND

István BOZSÓKI
ITU / BDT / TND

TECHNOLOGIES AND NETWORKS DEVELOPMENT (TND)

- **Mandate of the Unit**
- **WSIS:** Action Line C2
- **Doha 2006:** Programme 2

- **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**

1

PROGRAMME 2:
Information and communication infrastructure and technologies development

Priorities are given to the following technology-related 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

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

- **Training**

  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

---

SPECTRUM MANAGEMENT AND BROADCASTING ACTIVITIES OF TND / 1

- 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

3

SPECTRUM MANAGEMENT AND BROADCASTING ACTIVITIES OF TND / 2

- 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

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**
  - FAT of version 3 (monitoring, Google Earth)
- **ITU-D SG2, Resolution 9**

SPECTRUM MANAGEMENT
ACTIVITY EXAMPLES / 2

- **Assistance to developing countries**
  - spectrum management assessments, revising legislation, spectrum pricing, coordination procedures
  - assisting in spectrum management projects
- **2008**
  - spectrum management assessments
    - **Benin**, Gambia, Samoa, Vanuatu, East-Timor, Tonga, Gabon, Sierra-Leone, Zimbabwe
  - 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

BROADCASTING
ACTIVITY EXAMPLES

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

ROADMAP PROJECT IN AFRICA
DIGITAL BROADCASTING TRANSITION

- Outputs of the 1st phase of the project (January – July 2008)
  - Survey on the digital broadcasting transition situation including the African governments' requirements for assistance from ITU
  - Development of the project document of the 2nd phase of the project

- Expected outputs of the 2nd phase of the project (November 2008 - October 2009)
  - Development of the guidelines on transition to DTTV and introduction of MTV
  - Customization of guidelines and deployment of pilot systems to selected countries

---

BENIN
2008

- Spectrum management assessment
  - Technical expert (Mr. Pousbilo OUEDRAOGO) 27 March – 17 April 2008
    - Situation actuelle de gestion du spectre au Bénin
    - Analyse des forces et des faiblesses de la structure chargée de la gestion du spectre
    - Evaluation des besoins
    - propositions de renforcement de capacités du personnel
    - Plan d'action détaillée
    - 16 recommandations
    - Report (6 CDs) to the Minister with a letter signed by BDT director
  - Legal expert (Mr. Philippe Mege), 5-23 May 2008
    - situation existante du cadre reglementaire au Benin
    - 7 recommendations
    - Report to Mr. Ilougbade for comments

BENIN
2007- 2008

• Network management assessment

Audit technique et commercial du réseau de BENIN TELECOMS SA

-Technical expert (Mr. Bako Mathurin and Aliou Diakhaté) 06.02 – 11.03.07

Rapport

Etat des lieux

Benchmarking des tarifs d'interconnexion

Analyse des forces et des faiblesses de la structure chargée de la gestion de l'interconnexion

Evaluation des mécanismes en vigueur dans l'élaboration, la négociation et la gestion des catalogues d'interconnexion

Propositions des scénarios d'interconnexion

Récommandations :

1 Recommandation aux pouvoirs publics du Bénin

6 Recommandations à l'endroit de Bénin Télécoms

1 Recommandation à tous les opérateurs

Conclusions

Remarks :No feedback about the implementation of these recommendations

Report to DG BT SA Letter No 0068/ DKR/ITUAR/ BBS/ 07 du 20 avril 2007

28 May 2009   BDT / TND   15 / 15

BENIN
2009

• GTZ project

• Benin has been receiving ITU assistance on regulatory issues

• We have planned on more than 15 days external expert mission that was supposed to start immediately and Benin preferred to postpone for July.

• In addition they will get fellowships for training/study trips (available in the project 16.200 US$). If priority is to go to Geneva let us know (Area in Dakka).

28 May 2009   BDT / TND   16 / 15

Thank you !

István BOZSÓKI
ITU / BDT / TND
istvan.bozsoki@itu.int

28 May 2009   BDT / TND   17 / 15