

Project Closure Report

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Project Title : Roadmap for Transition from Analogue to Digital Terrestrial Television Broadcasting (DTTB) and Mobile Television (MTV) in Africa

Project number: 7RAF08071

Project Time Frame: 10 October 2010 – 31 December 2012

Project manager: Mr. Gue-Jo JO, Mr. Kikwon Kim, Mr. Istvan Bozsoki

Project Coordinator: Ms. Mihret Woodmatas

Project Partners: Korea communications Commission Republic of Korea (KCC) as well as Governments of the beneficiary countries (Angola, Ethiopia, Mali and Gabon)

Project objectives and a brief description of main achievements:

To assist the African countries in making their own roadmap to shift smoothly from analogue to digital terrestrial television broadcasting (DTTB) and the possible use of and Mobile Television (MTV).

- First phase:

Feasibility study within the African countries aiming at collecting relevant information on current status of television broadcasting as well as African broadcasters plan in shifting from analogue to digital terrestrial television broadcasting and mobile television.

- Second phase:

Development of guidelines for transition to digital broadcasting

Development of roadmap for selected countries: Angola, Ethiopia Mali and Gabon.

Enhanced skills of concerned national experts on the roadmap for the transition and technologies.

Work Plan:

For Guideline preparation

Tasks/Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Recruitment of experts	■	■																								
Project review				■	■	■	■	■																		
Analysis of questionnaire																										
Development of guidelines																										
- Basic digital broadcasting issues, e.g.:																										
- Legislative environment, e.g.:																										
- Regulatory environment, e.g.:																										
- Spectrum environment, e.g.:																										
- Business planning, e.g.:																										
- Technology, e.g.:																										
- Network planning, e.g.:																										
- Viewers, e.g.:																										
Integration of individual roadmap sections																										
Develop user manual/entity relationship model																										
Project final review and distribution of the guideline																										

For roadmap preparation

Task/Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
<Customization>																									
Recruitment of experts	■	■	■																						
Identification of pilot countries				■	■																				
Project review and preparation of an additional questionnaire					■	■																			
Distribution and collection of questionnaires						■	■																		
Meeting with key members of each country (Mission 1, 3experts)							■	■																	
Draft of Customisation																									
- Actions to assist terrestrial broadcasting requirement																									
- Actions to assist mobile broadcasting requirement																									
- Actions to provide policy and regulatory assistance																									
- Integration of individual sections and preparation Mission 2																									
Customisation in the pilot countries (Mission 2, 2experts)																									
Consolidation of experts' reports																									
Producing project report and distribution of customised roadmap																									

Project Activities and Outputs:

To implement the project, the following activities were carried out:

- i. Manage the Project, conduct survey, set criteria for selection of 5 pilot countries
- ii. Coordinate with Project partners to recruit external experts and adapt the guidelines
- iii. Provide direct assistance to countries to develop roadmap including capacity building
- iv. Monitor the Project activities on a daily basis; and
- v. Prepare the periodic progress/closure reports
- vi. Capacity building for the national experts
- vii. Closure workshop in Nairobi at the ATU Summit presenting the results

The following activities have been completed and summarized as follows:

1. Feasibility study on the current situation of the broadcasting

The study was conducted in 2009 with 23 countries response to the questionnaires. The replied countries were Angola, Botswana, Burkina Faso, Cameroon, Cote d'Ivoire, Djibuti, Egypt, Eretria, Ethiopia, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Mali, Niger, Nigeria, Seychelles, Sierra Leone, South Africa, Togo and Tunisia.

2. Development of the guidelines

The Guidelines on transition to Digital Terrestrial Television Broadcasting (DTTB) and introduction of Mobile Television (MTV) are intended to provide information and recommendations on policy, regulation, technologies, network planning, customer awareness and business planning for the smooth introduction of DTTB and MTV. Included in the guidelines are:

- Options for policy and technology choices;
- Context and introduction to the policy and technology choices;
- Relevancy and impact of choices;
- Cost/benefit analysis;
- Implementation guidelines;
- Generic roadmaps and main activities;
- Documentation references.

The Guidelines have been developed on the basis of the World Telecommunication Development Conference (WTDC-06) and the guideline was prepared by a group of International experts with the Supervision of ITU/BDT project manager with close cooperation of ITU/BR. It provides assistance to member countries to smoothly migrate from analogue to digital broadcasting.

3. Roadmaps for the transition from analogue to digital terrestrial television for Angola, Ethiopia, Mali and Gabon have been prepared:

Roadmap for the Digital Switch-Over (DSO) process has been developed by a team of ITU experts and the National Roadmap Team (NRT)/working group of the countries. In each country, Angola, Ethiopia, Mali and Gabon during the first mission experts collected the relevant information, data, had discussions with the NRT and provided explanations on the Guidelines and had the selection of functional building blocks that are relevant to the national digital switch over objectives.

During the second mission the experts and NRT members discussed functional building blocks developed by both parties between the two missions. Based on this discussions the experts finalized the roadmaps.

4. Capacity building on digital broadcasting

During both visits capacity building was undertaken through workshops to the relevant national experts. In addition during the ATU Summit in Nairobi in 2011 the results of the project were presented.

Detail Results and Impact:

The expected outputs have been reached as bellow indicated:

- **Guidelines for the transition from analogue to digital broadcasting:** These guidelines are designed to provide information and recommendations on policy, regulation, technologies, network planning, customer awareness and business planning for the smooth introduction of digital terrestrial television broadcasting (DTTV) and mobile television broadcasting (MTV). It provides information on the digital migration approach, and actions required to the digital switch over process and can be used by all member states. <http://www.itu.int/publ/D-HDB-GUIDELINES.01-2010/en>,

- **National Roadmap for the transition from analogue to digital terrestrial television to Angola, Ethiopia, Mali and Gabon.** Country specific roadmap has been developed with the cooperation of experts and national roadmap team / working group of each country.
- **Workshops were delivered** and results have been presented during the 1s ATU-ITU Summit.

The major impacts of the project for Africa and the selected beneficiary country are:

- Guidelines for the smooth transition from analogue to digital terrestrial television was shared with other Africa countries for helping to implement their transition from analogue to digital broadcasting.
- To follow up on the result of roadmap reports of the countries that have been discussed during the ITU-ATU Regional Workshop on 1 December 2011. The ITU experts shared their experiences and know-hows for assistance to make roadmaps to other countries in Africa. In particular, three country specific roadmaps that will help to facilitate the digital switch over process.

Provide the list of lessons learned

- Most of the countries in Africa need assistance in developing their roadmap reports to achieve the digital switch-off date. ITU has helped not only the selected countries, but other countries in Africa through guidelines and integrated workshop.
- For training/workshop, ITU should continue to involve/cooperate with partners e.g. ATU, and technologies providers so that they can provide support with the experts/speakers at the workshop/training at each of ITU or partner's event of the relevant subject. It will also result in cost saving as well as strengthening our relationship with partners.
- For future roadmap reports of country assistance, the national roadmap team (NRT) should be formed prior to the visit of the experts. The support from the Administration/NRT should not only assist with the completion of the roadmap reports but need to commit to execute the plan or recommendation provided by the experts in a timely manner.
- During the implementation of this project, there was difficulty to find the proper contacts in the Africa countries.

Project Budget status:

P.40012.2.03 (ICTDF) and P.40012.1.01 (KCC Contribution)

See attached

List of attached documents

- 1- The Questionnaire that has been sent to African Countries
- 2- Guidelines for the transition from analogue to digital broadcasting
- 3- Final Roadmap Report Angola
- 4- Final Roadmap Report Ethiopia
- 5- Final Roadmap Report Mali
- 6- Final Roadmap Report Gabon

Decision:

Considering that the project has achieved its objectives with the completion of its activities, project can be closed as it is operationally completed.
Based on the preliminary discussions with KCC the remaining budget from their contribution is recommended to be transferred to the project 9RAF11085.

Name and Title of Project Manager:

István BOZSÓKI
Head of SBD Division

Signature: *Bozoki Istvan* Date: 23/05/13

Project Partner

Name: ... *Sang Hun LEE* ...

Title: *Director, I.O Cooperation Division*

Signature: *[Signature]* Date: 10/09/13