

# REPUBLIC OF MOZAMBIQUE

CONSELHO SUPERIOR DA COMUNICAÇÃO SOCIAL (CSCS)



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# STRATEGY OF MIGRATION OF ANALOGICAL BROADCASTING TO DIGITAL IN MOZAMBIQUE

## 1. INTRODUCTION

The ITU established the beginning of migration for TV and Radio according to the following frequencies for the zones:

- III (174 – 230MHz);
- IV (470 – 582MHz);
- V (582 – 790MHz).

This decision was based on the technological standard DVB-T for TV and the resonant digital broadcasting (T-DAB) for radio.

# STRATEGY OF MIGRATION OF ANALOGICAL BROADCASTING TO DIGITAL IN MOZAMBIQUE

## INTRODUCTION (cont ..)

According to the international recommendations, the implementing structure of the migration process from analogical to digital system has to observe the following steps:

- Adoption of the Technological Standard of Transmission;
- Definition of the Strategy of Migration;
- The technological standard to be implemented.

# STRATEGY OF MIGRATION OF ANALOGICAL BROADCASTING TO DIGITAL IN MOZAMBIQUE

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With those recommendations in mind, the Government of Mozambique created a Technical Commission, which will assist the Government in the preparation of the necessary instruments which will assure that the migration process from analogical to digital is successfully and safely completed by June 2015.

# CURRENT SITUATION OF THE BROADCASTING IN MOZAMBIQUE

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The Broadcasting system in Mozambique is organized in two sectors, namely, public and private. The public sector includes operators of radio and television under state management. These include the national radio (Radio Mozambique) national TV (Mozambique Television), community radios and televisions under the management of the Social Communication Institute (ICS). The private sector includes mainly operators of commercial, religious as well as community radio and television managed by local communities and or some NGO's.

# REGULATION ENVIRONMENT OF THE BROADCASTING

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The Constitution of the Republic of Mozambique acknowledges the Rights, Duties and Freedoms of Speech and Information. These aspects are better expressed in the Press Law (Law 18/1991 of 10 of August), which regulates the principles that govern the press activity in Mozambique, including the rules on how to establish private radios and televisions and newspapers.

# COVERING OF THE BROADCASTING IN MOZAMBIQUE

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In Mozambique, the resonant broadcasting operates in two ways of transmission, namely, in Modulated Amplitude (AM) and in Modulated Frequency (FM). The Radio Mozambique (RM) is the only operator which transmits in both in AM and FM, having also transmitted in short waves (SW) in the past. The other operators transmit in FM only.



# RESONANT ANALOGICAL BROADCASTING

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Presently, there are 164 public, private and community stations in the country. Of these, 13 operate in AM (11 belonging to the RM and 2 to the ICS) and 151 in FM.

# TELEVISION ANALOGICAL BROADCASTING

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There is a total of 54 television stations in the country: 20 belong to the public operator TVM, introduced in all provinces and some districts. The others are private, mainly commercial, religious and community TV stations.

# TELEVISION DIGITAL BROADCASTING

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While the migration process is being discussed in Mozambique at government level, there are some private initiatives which are already introducing digital television. These are: Startimes (in green light), TV Cabo (encoded). These are both TV commercial stations.

# STEPS OF THE MIGRATION PROCESS

1. The regulation of the service;
2. Transmission, in green light or encoded;
3. Requisites for attribution of channels and program subscription;
4. The licensing of Multiplexing Operators, Transport and Digital Signal Distribution (MUX);
5. The Providers' register of Contents;
6. The cost of acquisition of equipments (receivers and converters of the signal - Set top Box);

## STEPS OF THE MIGRATION PROCESS (Cont.)

7. The period of simulcast (double lighting), be staged or not;
8. The spread of the service;
9. The implications of not migration up to the date indicated by the ITU;
10. The harmonization with the plans of frequencies among the SADC countries.

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The agreement GE-06 did not set a period for the migration of the Radio. In order to avoid the overlapping of the frequency spectrum used in the analogical Radio and those of Digital Radio, it is important that the operators do undertake migration gradually to allow that the citizens could take advantage of the benefits of the digitalization and avoid constraints caused by the technological evolution.

# TECHNOLOGIES TO BE ADOPTED IN THE PROCESS OF MIGRATION FOR TELEVISION

After the switch-off of the analogical sign, and the operator of the MUX can apply to the Mozambique National Institute of Communications (INCM) for the concession of more channels and, in this way, start broadcasting in high definition television (HDTV), which allows the simultaneous transmission of 1 program in high definition and 4 programs in standard definition in the same channel.

For the compression of video, the standard H.264/MPEG-4, or AVC (Advanced Video Coding) are recommended.

# TRANSITION PERIOD

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February 3, 2012-June 17, 2015.



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The National Plan of Attribution of Spectrum, approved by the ITU in the GE-06 will provide an effective and appropriate migration, both for the digital television and for the digital radio.

# CONVERTERS AND RECEIVERS OF THE DIGITAL SIGNAL

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In order to allow the universal access to be reached to the digital broadcasting, it is recommended that mechanisms must be adopted for the low income people to access the necessary migration equipment such as the subsidized acquisition of basic STBs.

The analogical television sets will keep working even to the end of their useful life, provided that converters are incorporated (STBs) to them.

# POSSIBLE BASIC MEASURES TO BE TAKEN IN SUBSIDIZING OF THE STBS

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- 1 - Reduction of the customs taxes of import of digital equipments;
  - 2 - Development of mechanisms to subsidize the acquisition of STBs;
  - 3 - Reduction or exemption of the Tax of the Added Value (IVA);
  - 4 - Launching of an open competition for the selection of an enterprise to supply the equipments in good conditions.

# ROLE OF THE GOVERNMENT

- a) To establish appropriate legislative and regulation picture to allow the good implementation of the process of migration within the fixed period;
- b) To create conditions for the establishment of a Public Operator of Transport and Distribution of Digital Sign (MUX);
- c) To introduce fiscal measures to allow the consumers to acquire STB's and receivers of digital television at accessible prices, eventually through fiscal exemptions and/or subsidies;
- d) To create incentives and appropriate supports for providers of contents and signal distributors.

# EDUCATION AND PROTECTION OF THE USERS

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In the context of the process of migration in Mozambique, some dissemination campaigns should be organized to educate the users and raise their awareness about the all migration process.

## Public education:

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The commission recommended that campaigns of civic education should begin 2011.

**THANK YOU**

# REPUBLIC OF MOZAMBIQUE



**SUPERIOR COUNCIL OF THE SOCIAL COMMUNICATION**

