PRESENTATION BY THE CHAIRMAN OF THE IMPLEMENTATION COMMITTEE ON TRANSITION FROM ANALOGUE TO DIGITAL BROADCASTING IN NIGERIA - DigiTeam Nigeria.

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DVB-T2 STANDARD IN THE ECONOMIC COMMUNITY OF WEST AFRICAN STATES (ECOWAS)
OUTLINE

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INTRODUCTION

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INTRODUCTION

ECOWAS
INTRODUCTION:

- At the RRC-06 a Digital Plan for the Transition from Analogue to Digital Terrestrial Television was drawn for Region 1 of the ITU.
- This Plan covered the following Frequency Bands:
  - 174 - 230 MHz. (VHF)
  - 470 - 862 MHz. (UHF).

This exercise resulted in the GE-06 Agreement.

Prior to 2006, in most countries of Region 1 of the ITU, these Band of Frequencies were allocated on Primary Basis to Terrestrial Television Broadcasting.
MODIFICATION TO THE GE-06 DIGITAL PLAN

Proposals were brought to subsequent World Radio Congresses for Co-Primary Allocations of some bands of frequencies in the UHF Band, that were previously Allocated on Primary Basis exclusively for Broadcasting:

- WRC-07 790 - 862 MHz. (DIGITAL DIVIDEND 1)
- WRC-12 694 - 790 MHz. (DIGITAL DIVIDEND 2)
MODIFICATIONS TO THE GE-06 DIGITAL PLAN

UHF SPECTRUM SHOWING THE BANDS AFFECTED BY THE DECISIONS OF WRC-07 & WRC-12
MODIFICATIONS TO THE GE-06 DIGITAL PLAN

UHF DTT BLOCK  DD2 BLOCK  DD1 BLOCK

IMPLICATION OF MODIFICATION TO THE GE-06 PLAN
Effectively therefore, what is available to Terrestrial Television Broadcasting as an Exclusive Primary Allocation is therefore

470 to 694 MHz.

There was therefore the need to review the GE-06 Digital Plan to relocate all Assignments above 694 Mhz. to within 470 to 694 MHz.

Looking at the reduced available spectrum and after a series of meeting of the Broadcast and Telecommunications. Regulators, it was recommended that all the ECOWAS Countries adopt a common standard for the Transition.
The recommended Standards:
- DVB-T2 Transmission Standard
- MPEG-4 HVC Video Compression.

Most of the African Countries are still in the process of the Transition and so far the deployments are mainly on Standard Definition (SD).

The Transition in all the ECOWAS Countries is Government driven. Progress on the Transition in the various countries is therefore dependent on the
- Political Will
- Funds available for the Transition
Although a Common Standard was adopted by all the ECOWAS Countries, the approach to the Transition are not exactly the same:

- National Broadcasters as Signal Distributors or Carriers
- Private Service Providers contracted by Government to provide the Digital Transmission Network
- Private Companies as Independent Service Providers
- A mix of Government owned Signal Distributor and Private Independent Service Provider.

Then we have the peculiar situation with the Island Country of Cape Verde or Capo Verda. This Country has a lot in common with the Caribbean. It comprises of over 12 Islands scattered far from each other within the Atlantic Ocean.
Their approach is to enter into a Turn-Key Contract with an European Company to provide the Digital Transmission Network covering most of the major Islands utilizing the existing Broadcast Infrastructure and adding new ones where needed.

At the conclusion of the Terrestrial Network, the population of the Country that is uneconomical to cover by the Terrestrial Network will be reached via Satellite.
LOOKING TO THE FUTURE
LOOKING TO THE FUTURE

FROM STANDARD DEFINITION TO ULTRA – HIGH DEFINITION TELEVISION

7,860 X 4,320
(about 33 million pixels)

3,840 X 2,160
(about 8 million pixels)
CONCLUSION

We see the current Transition as Phase 1 of Transitions:

- After the current Transition, there will be a Frequency Re-farming and Re-planning

- Current Transition is on Standard Definition Television (SDTV)

- Because most Television Production have moved from SD to HD and UHD, the next Transition will be from Digital to Digital

- From SDTV to HDTV and

- From HDTV to UHDTV.
THANK YOU ALL VERY MUCH.

ENGR. E. I. AMANA.
CHAIRMAN DigiTeam Nigeria
eddyamana@gmail.com