

ANGOLA RESPONSE  
TO  
WORKING PARTY 6A QUESTIONNAIRE ON SPECTRUM  
REQUIREMENTS FOR TERRESTRIAL TELEVISION BROADCASTING  
IN CONNECTION WITH  
WRC-15 AGENDA ITEM 1.2

- 1 a) What standards have you adopted for digital terrestrial television broadcasting?  
**Answer: Not yet.**
- b) Have you started introduction of digital terrestrial television services?  
**Answer: Not yet.**
- c) If yes, please provide further detail on the number of multiplexes in use, their technical specifications, the percentage of geographic area or population they are intended to cover and the total spectrum use to inform WP 6A.  
**Answer:**
- 2 a) Have you commenced analogue television switch-off?  
**Answer: Not yet**
- b) If you have any such plans, when do you expect to have completed the analogue switch-off process?  
**Answer: 2015.**
- 3 a) What is the percentage of viewer uptake of terrestrial television in your country, including those whose service provider uses terrestrial broadcast re-transmission (e.g. in cable networks)?  
**Answer: *The Angolan TV market is mainly terrestrial TV market with TPA(public broadcaster) as main player reaching 1,25million households, about half of population, the satellite TV and cable TV offerings have however limited penetration 250.000 and 35.000 respectively. ( Report - Angola read map for DTT).***
- b) If possible, please also provide details of the number or proportion of users who receive television primarily by terrestrial means.  
**Answer: *About half of the population. (Report -Angola read map for DTT).***
- 4 a) Indicate how many analogue television transmitters use channels in the frequency sub-band 694-790 MHz (as indicated in Resolution 232 (WRC-12)).  
**Answer: None**
- b) How many are in the remaining part of the UHF band.  
**Answer: Channel 49 to 62.**

- 5 a) What frequencies/channels are currently used or intended to be used by digital terrestrial television broadcasting in your country? Please distinguish between those in use and those intended to be used.  
**Answer: VHF and Channels 21 to 48, frequency 470 to 694 MHz.**
- b) If allotments/SFNs are in use, a sketch map of frequency allocations could be included, with an accompanying table of allocations, as shown in Annex 2. Otherwise, it might be possible to show main transmitters and channels, grouped in layers, in a table.  
**Answer: Typically none**
- c) Please indicate how many digital television assignments/allotments use channels in the frequency sub-band 694-790 MHz (as indicated in Resolution 232 (WRC-12), and  
**Answer: none.**
- d) How many are in the remaining part of the UHF band.  
**Answer: Channel 49 to 62.**
- 6 a) Are those frequency bands also shared with other primary services?  
**Answer: Typically none – the band is designated exclusively for DTT.**
- b) If yes, please give details of those systems and their spectrum use.
- 7 a) Are those frequency bands also shared with secondary services such as PMSE (Programme Making and Special Events), radio astronomy or wind-profile radar?  
**Answer: No.**
- b) If yes, please give details of those systems and their spectrum use.
- 8 a) Do you foresee the adoption or expansion of television services broadcast using second-generation systems such as DVB-T2?  
**Answer: No, we are expected and trial others standards DTT.**
- b) If yes, please give indicative details of the planned transition, including any simulcast period.
- 9 a) Do you foresee a requirement for new and enhanced services, including HD and 3D television, on the terrestrial television platform?  
**Answer: Yes, we do, all such premium services HD, 3G etc.**
- b) If yes, please give indicative details of the number and nature of services planned, and if known, the expected timeframe for their introduction.  
**Answer: No actual details are known at this stage in terms of number and nature. The expected timeframe is typically after the official Analogue Switch off in June 2015 as the focus now is the replace analogue transmission with digital before contemplating on premium services**

- 10 a) Are there plans in your country to launch more multiplexes in the future?

**Answer:** *Not yet, may be according to the market need.*

- b) If yes, how many more and when? Please also indicate the expected timeframe for their introduction.

**Answer:**

- 11 a) What is the amount of spectrum you foresee that will be required for terrestrial television broadcasting, if plans in Questions 8, 9 and 10 are to be supported, and services identified in Questions 6 and 7 are to be taken into account? Please indicate the modes of transmission that will be used, and timeframes.

**Answer:**

Note: All the references were found in the *Final Roadmap Report - Angola\_v2 0(UIT)* "Roadmap for the transition from analogue to digital terrestrial television in Angola", and the report of SADC Sub-Regional GE06 Frequency Coordination Workshop on the transition to Digital Terrestrial Television.