

QUESTIONNAIRE ON SPECTRUM REQUIREMENTS FOR TERRESTRIAL  
TELEVISION BROADCASTING IN CONNECTION WITH  
WRC-15 AGENDA ITEM 1.2

Thursday, 21 February 2013

This questionnaire was also completed online at the following web page:

<https://extranet.itu.int/rsg-meetings/sg6/wp6a/Lists/DTTB%20Questionnaire/overview.aspx>

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- 1
- a) What standards have you adopted for digital terrestrial television broadcasting?
  - b) Have you started introduction of digital terrestrial television services?
  - 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.

**Reply: a) DVB-T**

**b) Switch on digital services 6/2011**

**c) 1 Multiplex, all Israel. See Annex 1**

- 2
- a) Have you commenced analogue television switch-off?
  - b) If you have any such plans, when do you expect to have completed the analogue switch-off process?

**Reply: a) b) Switch off analogue TV completed on 6/2011**

- 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)?

**15 % already get DTTV.**

- b) If possible, please also provide details of the number or proportion of users who receive television primarily by terrestrial means.

**100 % is covered by CATV and our BSS Amos.**

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- 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)**).

**We closed about 70 analog UHF TV Transmitters**

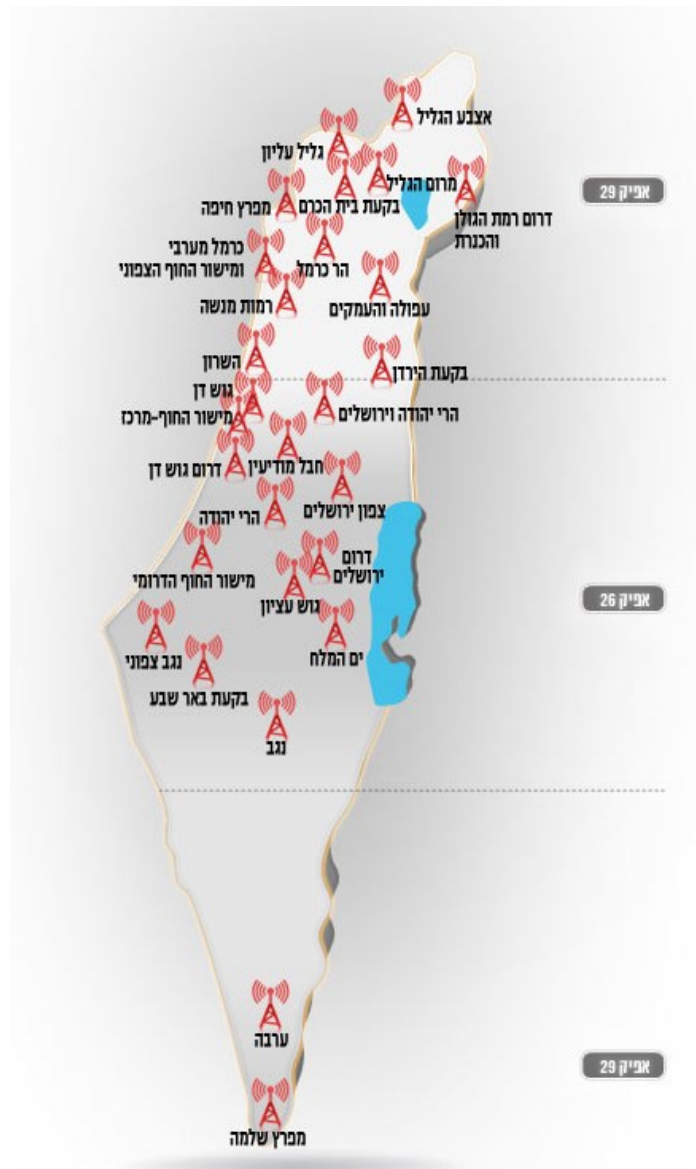
- b) How many are in the remaining part of the UHF band.
- 5 a) What frequencies/channels are currently used or intended to be used by digital terrestrial television broadcasting in your country? Please distinguish between those in use and those intended to be used.

C	h	Start- End (MHz)
2	6	510-518
2	9	534-542

**Four more 8 MHz UHF channels are intended**

- 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.

SFN. We operate about 28 digital transmitters and 15 gap-fillers; see enclosed map; can be found at [http://www.rashut2.org.il/idan\\_map.asp](http://www.rashut2.org.il/idan_map.asp)



6 a) Are those frequency bands also shared with other primary services?

**No**

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?

**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?

b) If yes, please give indicative details of the planned transition, including any simulcast period.

**Reply The second & third multiplexes will be DVB-T2.**

- 9 a) Do you foresee a requirement for new and enhanced services, including HD and 3D television, on the terrestrial television platform?
- b) If yes, please give indicative details of the number and nature of services planned, and if known, the expected timeframe for their introduction.

**Reply: SD (Standard Density) & HD.**

- 10 a) Are there plans in your country to launch more multiplexes in the future?
- b) If yes, how many more and when? Please also indicate the expected timeframe for their introduction.

**Reply: a) The second & third multiplexes DVB-T2 on 2013-4**

- 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.
- If appropriate, a suggested form to express these requirements is shown in Annex 3.

**Reply: Four more 8 MHz Channels**

ANNEX 1

Country	No of multiplexes	System & modulation	FEC	GI	Reception mode	Capacity per multiplex (Mb/s)	Current percentage DTTV population coverage	Intended percentage population coverage	Content per multiplex	Total capacity (Mb/s)	bandwidth used for implementation (MHz)	Any additional comments (e.g. duration of licences)
ISR	1	DVB-T, 16-QAM	2/3	1/4	Portable indoor	12	15 %	20%	6 SD MPEG4	12	16	From 2011