



WP 6A ▶ DTTB Questionnaire: Respond to this Survey

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1 a) What standards have you adopted for digital terrestrial broadcasting ?

DVB-T

1 b) Have you started introduction of digital terrestrial television services ? *

☒ Yes☐ No

1 c) If 'Yes', please provide further details 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.

A proposed format for detailed responses is provided in Annex 1 (see file DTTB-Q-A1.docx under QUESTIONNAIRE in the WP 6A Share Folder).

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Country	No of Multiplexes	System & Modulation	FEC	GI	Reception Mode	Capacity per multiplex (Mb/s)	Current Percentage Population Coverage	Intended Percentage Population Coverage	Content per Multiplex	Total Capacity (Mb/s)	Total Spectrum Bandwidth Used or intended for implementation (MHz)	Any additional comments (eg duration of licences)
Hungary	1	DVB-T, 64-QAM	3/4	1/4	fix	22.39	96	96%	3HD, 1 SD MPEG4, 3 digital radio	22.39	384 MHz	Public service multiplexes licensed until 2020
Hungary	1	DVB-T, 64-QAM	3/4	1/4	fix	22.39	96	96%	11 SD MPEG4, 1 digital radio	22.39		licensed until 2020
Hungary	1	DVB-T, 64-QAM	3/4	1/4	fix	22.39	68	96%	13 SD MPEG4	22.39		licensed until 2020
Hungary	2	DVB-T, 64-QAM	3/4	1/4	fix	22.39		96%		44.78	320 MHz	from 2014
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2 a) Have you commenced analogue television switch-off ?

☐ Yes☒ No

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

Until end of 2014 (earlier switch off maybe possible).

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)?

77%

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

17%

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)).

57

4 b) How many are in the remaining part of the UHF band ?

202

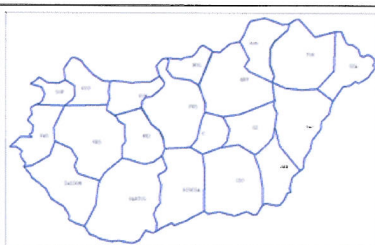
5 a) What frequencies/channels are currently used or intended to be used by digital terrestrial television broadcasting in your country? Please distinguish between those in use and those intended to be used.

478-862 MHz are used. 470-790 intended to be used.

5 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 (see file DTTB-Q-A2.docx under QUESTIONNAIRE in the WP 6A Share Folder). Otherwise, it might be possible to show main transmitters and channels, grouped in layers, in a table.

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allotment	layer 1	layer 2	layer 3	layer 4	layer 5	layer 6	layer 7
AS	38	58	68	32	33	49	
OP	42	40	68	32	33	49	25
YO	42	25	61	51	22	46	35
ES	64	35	61	51	22	46	57
COM	64	29	63		41	59	26
FEJ	30	29	63	43	40	59	
ALSOM	24	55	65	31	60	54	41
ES	38	55	62	24	41	34	58
NOG	38	55	62	24	36	46	
HEV	44	39	69	53	36	66	56
	56	39	66	53	36	34	58
Z	64	30	66	53	36	59	56
AGG	45	31	63	35	48	28	68
OK	68	31	63	35	26	43	60
ZA	58	38	67	52	41	24	34
HAJ	46	51	62	49	32	29	40
BEK	38	54	65	22	23	37	41
SO	60	22	65	57	23	26	31
KISCSA	45	27	68	25	42	28	33
BARTOL	52	37	67	47	50	49	32

Comments to the table:

	currently used	intended to be used
ch	yes	yes
ch	yes	no
ch	no	yes
ch	no	no

5 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 29 allotments according to GE06 Plan.

5 d) How many are in the remaining part of the UHF band ?

83 allotments according to GE06 Plan.
470-694 MHz band: 67.
790-862 MHz band: 16

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

- ☒ Yes
☐ No

6 b) If yes, please give details of those systems and their spectrum use.

Until end of 2012.
ARNS: 830-846 MHz

7 a) Are those frequency bands also shared with secondary services such as PMSE, radioastronomy or wind-profile radar?

- ☒ Yes
☐ No

7 b) If yes, please give details of those systems and their spectrum use.

PMSE in band 470-798 MHz, 814-832 MHz, 846-862 MHz.

8 a) Do you foresee the adoption or expansion of television services broadcast using second-generation systems such as DVB-T2 ?

- ☒ Yes
☐ No

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

No any detailed plan yet.

9 a) Do you foresee a requirement for new and enhanced services, including HD and 3D television, on the terrestrial television platform?

- ☒ Yes
☐ No

9 b) If yes, please give indicative details of the number and nature of services planned, and if known, the expected timeframe for their introduction.

3 HD program have already been implemented. Further demands have not been known for HD or 3D television yet.

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

- ☒ Yes
☐ No

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

Two multiplexes in 2 years.

11 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 (see file DTTB-Q-A3 under QUESTIONNAIRE in the WP 6A Share Folder).

Country		No of multiplexes	System & modulation	FEC	GI	Reception mode ^[1]	Capacity per multiplex (Mb/s)	Intended percentage population coverage	Content per multiplex	Total capacity (Mb/s)	Total spectrum bandwidth needed (MHz) ^[2]	Any additional comments including time frames
HNG	4	DVB-T2, 256-QAM	2/3	1/16	fix	37	96%	4 HD, 6 SD MPEG4	174.2	320	from 2020	
	2	DVB-T216-QAM	1/2	1/8	portable	13.1	88%	1 HD, 4 SD MPEG4				

^[1] E.g. fixed, portable outdoor/mobile, portable indoor.
^[2] Refer Sections 2 and 3 on page 1 of this circular.

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12. Please provide the following information:

- a) Name of the Administration/Sector Member:
b) For Sector members please indicate the geographical area over which you operate:
c) Contact person:
d) Email address:
e) Telephone number:

Font Name		Size	
Name of the Administration/Sector Member: National Media and Infocommunications Authority - Hungary			
For sector members please indicate the geographical area over which you operate:			
Contact person: Maria Kissne-Akli			
E-mail address: kissne@nmhh.hu			
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