Annex 1: Questionnaire

Member State Response details (please complete):

Member State	*Name*	*Organisation*	*Date*
Lithuania	**Augutis Cesna**	**Communications Regulatory Authority**	**26 Sept 2012**

Question 1 (consider section 1 of Annex 1 to help you with your answer):

(See Annex 2 for example answers for your assistance)

i) Please describe the DTT platform in your country, currently on-air, in following terms (please use the following format for your answers):

Member State	**No. of Multiplexes**	**Reception availability**	**Reception mode[1]**	**Number of TV program services and content format**	**DTT System and modulation**	**Intended coverage reach[2]**	**Coverage obligation (Y/N)[3]**	**Coverage (as a percentage of population)**	**Spectrum band used (UHF IV/V or VHF Band III)**
LTU	4	Pay-TV Free-to-air	Fixed	10 SD	DVB-T, 64-QAM	National	Y	96.3%	UHF Band IV/V
LTU	1	Pay-TV	Fixed	3 HD	DVB-T, 64-QAM	Local	N	41.2%	UHF Band IV/V
LTU	2	Pay-TV	Fixed	9 SD	DVB-T, 64-QAM	Local	N	<20%	UHF Band IV/V

[1] E.g., fixed (roof-top), portable indoor, portable outdoor, mobile.
[2] E.g., national, regional, local.
[3] Is there a legislative coverage obligation, e.g., a Public Service Broadcaster.

ii) Are there plans to deploy (a) additional DTT multiplexes and/or (b) foresee the launch of new services **in the short term (1 – 5 years)?**

(a) additional DTT multiplexes (please use the following format for your answers)

Member State	**additional Multiplexes (Y/N)**	**No. of additional Multiplexes**	**Reception availability**	**Reception mode[4]**	**Expected content format (SD and or HD)**	**Expected DTT system and modulation (if known)**	**Intended coverage reach[5]**	**Intended Coverage (as a percentage of population)**	**Spectrum band used (UHF IV/V or VHF Band III)**
LTU	Y	16	Free-to-air	Fixed	tbc	DVB-T, QPSK–64 QAM	Local	<10% each	UHF Band IV/V
LTU	Y	1	Free-to-air	Fixed	2SD+1HD	DVB-T, 16-QAM	National	99.7%	UHF Band IV/V
LTU	Y	2	Pay-TV Free-to-air	Fixed	10 SD or 3HD	DVB-T, 64-QAM	National	80-90%	UHF Band IV/V
LTU	Y	1	Pay-TV	Fixed	7 HD	DVB-T/T2, 256-QAM	National	90%	VHF Band III

(b) foresee the launch of new services (please use the following format for your answers)

Member State	**Additional Services (Y/N)**	**Expected content format (SD and or HD)**	**Reception availability**	**Expected content format (SD and or HD)**	**Interactive services (Y/N)**	**VoD (Y/N)**	**Ultra High Definition TV (Y/N)**	**Other (Y/N)**	**If answer Yes to Other, please specify**
LTU	Y		Pay-TV	SD + HD	Y	N	N	N	

iii) When do the existing DTT licenses in your country expire?

Answer: T**he vast majority of licences are valid until 2022 and one multiplex is licensed until 2031**.

[4] E.g., fixed (roof-top), portable indoor, portable outdoor, mobile.
[5] E.g., national, regional, local.

Question 2

How do you foresee different means of reception (DTT, ADSL, Cable, satellite, etc) complementing each other?

Answer: **Cable TV is going to be the main mode for reception of Pay-TV services in highly populated areas.**
DTT will be orientated to rural areas and population which are not going (are not able) to pay for TV services. We seek to keep at least two free-to-ear TV programs in DTT.
Satellite TV is ideal solution to cover areas that are not covered by Cable TV and DTT.

Question 3:

i) Do you think that the DTT platform in your country will evolve to being capable of delivering audio-visual services also to mobile terminals?

Answer: **No**

ii) If yes, what is the required evolution of the DTT network platform architecture? Please give details in relation to: -
   a. the DTT network topology (whether there will be a need to migrate from high- power/ high- tower to low- power/ low- tower type of networks);
   b. to the use of MFN versus SFN networks to achieve the evolution, and
   c. a possible migration to a new DTT system(e.g. to facilitate interactive services) and transmitting technologies (e.g., DVB-T2, DVB-T2 Lite, etc.).

Answer:

iii) Do you believe that a DTT platform evolving towards delivering audio-visual services also to mobile terminals may also be used by mobile operators to cope with:
   a. the data traffic required to deliver linear video content (i.e., with mobile terminals including broadcasting tuners), and
   b. certain non-linear content that could be pushed (and stored)?

Answer: **No. Mobile operators will be able to use own spectrum for delivering linear video content ubiquitously to both fixed and mobile terminals.**

iv) What evolutions do you expect would be required for mobile networks to be capable of delivering linear video content ubiquitously to both fixed and mobile terminals?

Answer:

v) Of a possible convergence between terrestrial mobile and (evolved) DTT platforms,what do you consider will be the consequences of mobile networks being capable of delivering linear video content to mobile terminals?

Answer:

Question 4:

i) How many DTT multiplexes do you expect will be needed in your country in the long-term (beyond 2020),

Answer: **8 national wide + 1 local multiplex in each region of the country**

ii) What services do you expect the DTT multiplexes to carry (assuming use of DVB-T2/HEVC)?

Answer: **HDTV, 3DTV, UHDTV**

iii) What transition and migration paths do you anticipate will be required to achieve this long-term DTT goal for your country?

Answer: **DVB-T to DVB-T2**