

The BBC logo, consisting of the letters 'BBC' in a white, bold, sans-serif font, enclosed within a dark green rectangular box.

Distribution &
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Future spectrum challenges for terrestrial television broadcasting in Europe

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Agenda Item 1.5

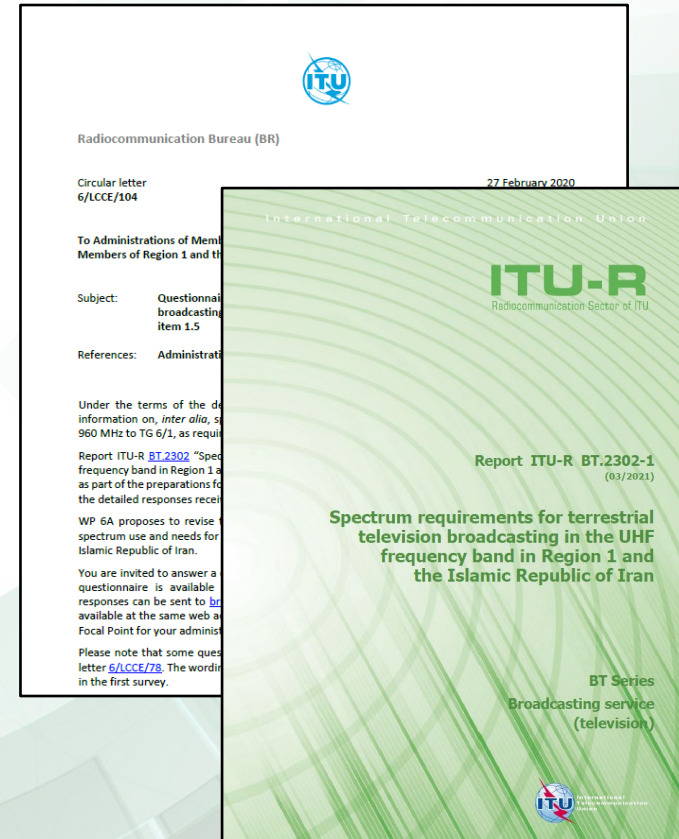
- UHF Spectrum used for
 - DTT broadcasting
 - PMSE (audio links: radio microphones, talk-back etc)
- Not all Public Service Media use DTT
- But all use the spectrum for production
- DTT is evolving towards new technologies (DVB-T → DVB-T2 → “5G Broadcast”)
 - Different countries/broadcasters evolving at different paces
- PMSE evolution towards 5G not certain

ITU-R WP 6A – Preparatory Work

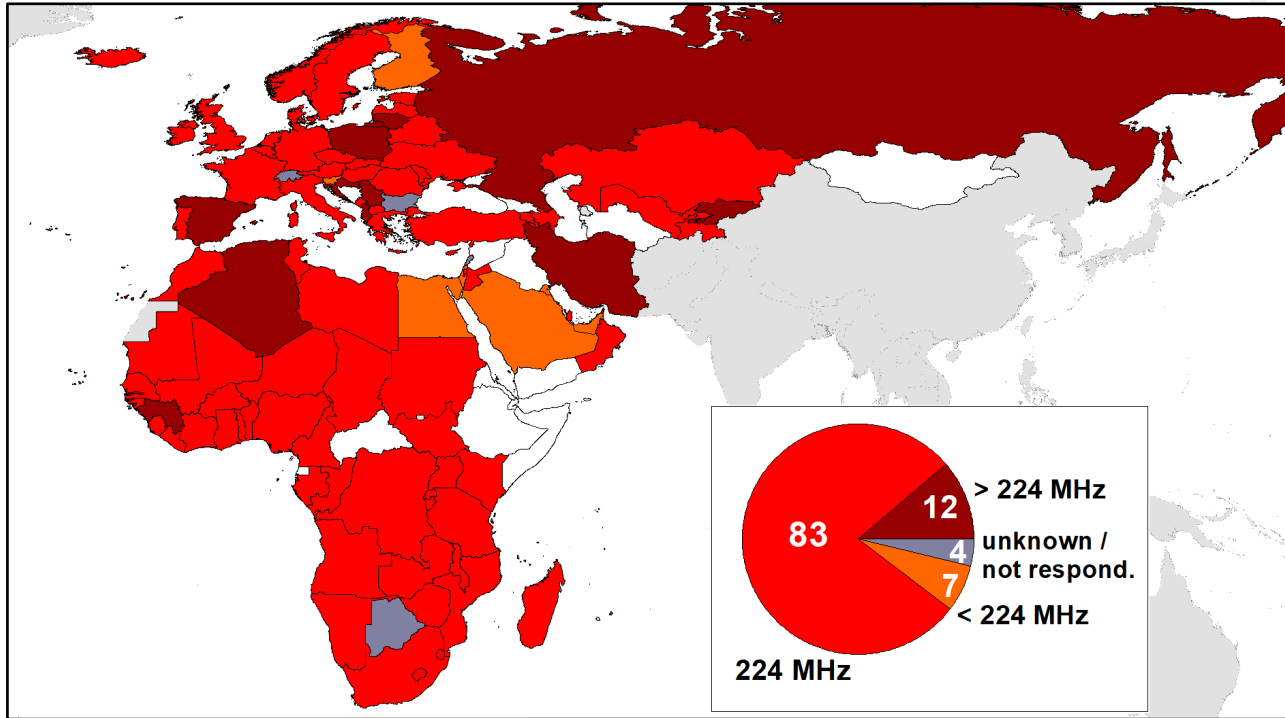
- The Conference Preparatory Meeting CPM23-1 decided that:
 - The Responsible Group for AI 1.5 would be a Task Group of SG 6 (TG6/1)
 - Contributing groups would provide:
 - Spectrum use and needs for the services in 470-960 MHz;
 - The assumptions for [sharing and compatibility] studies ... (including system parameters and propagation models) and the technical characteristics including protection criteria
- The contributing groups provided this information to TG6/1 by 15 May 2021

Spectrum use and needs

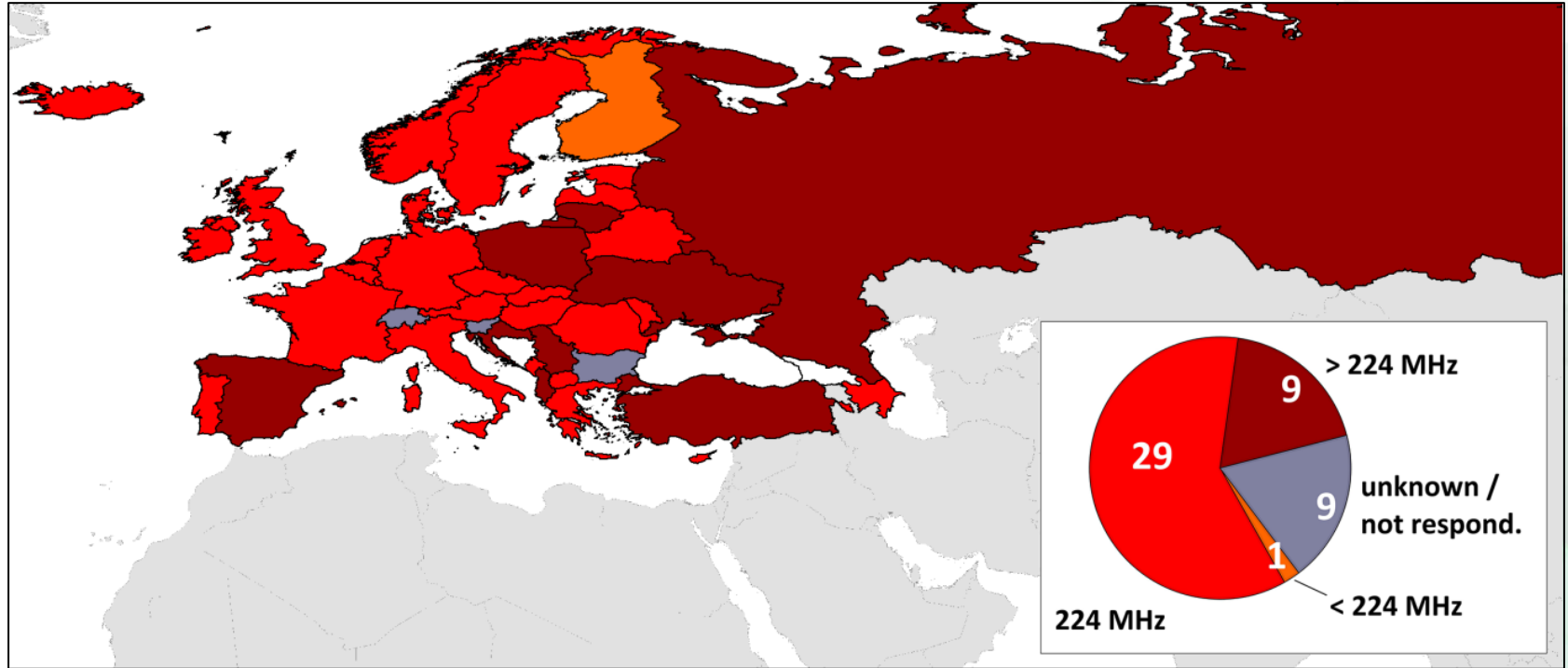
- Working Party 6A studied the spectrum use and needs of the Broadcasting Service in Region 1 in the band 470-960 MHz by means of:
 - A Questionnaire (6/LCCE/104) send to all Region 1 administrations plus Iran on the current use of the band and expected future use of the band
 - An update to Report ITU-R BT.2302 “Spectrum requirements for terrestrial television broadcasting in the UHF frequency band in Region 1 and the Islamic Republic of Iran”, including the analysis of the questionnaire results



Spectrum Use and Needs

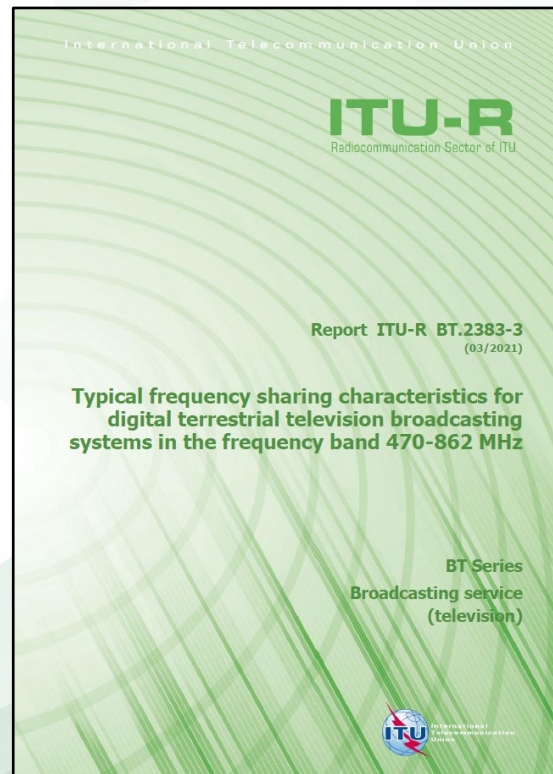


Spectrum Use and Needs



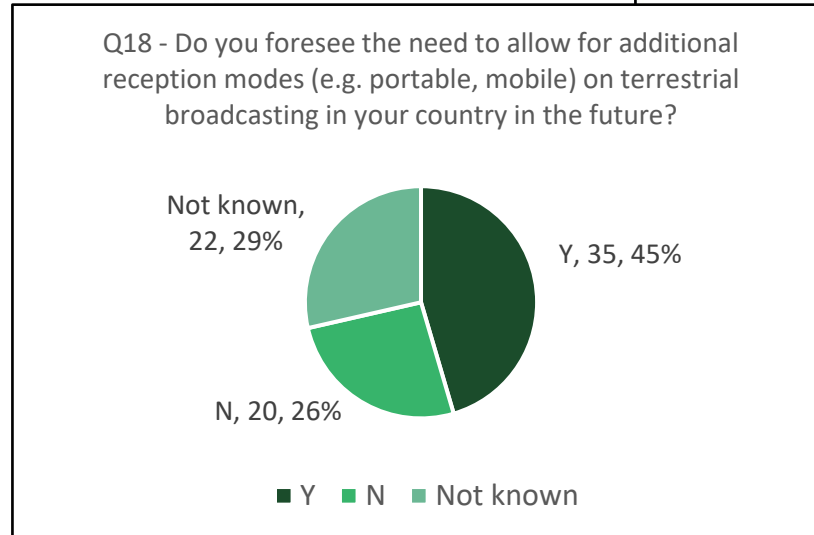
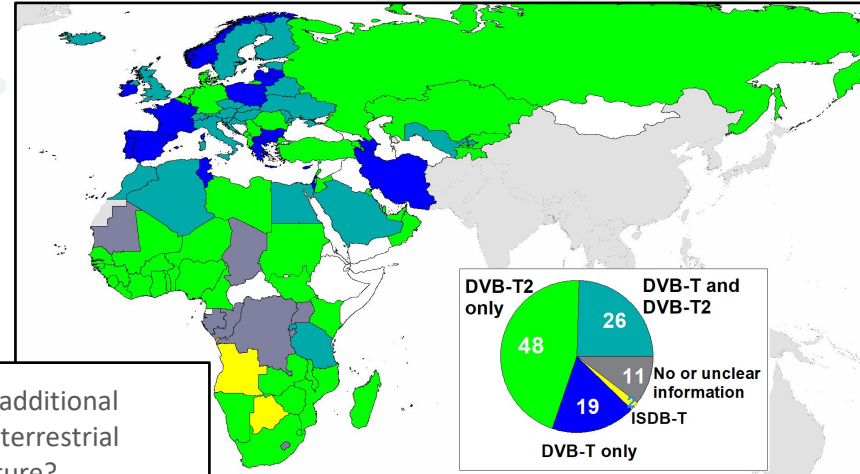
Technical Parameters

- The technical parameters of the Broadcasting Service required for sharing and compatibility studies under AI 1.5 are found in:
 - ITU-R Report BT.2383 “Typical frequency sharing characteristics for digital terrestrial television broadcasting systems in the frequency band 470-862 MHz”

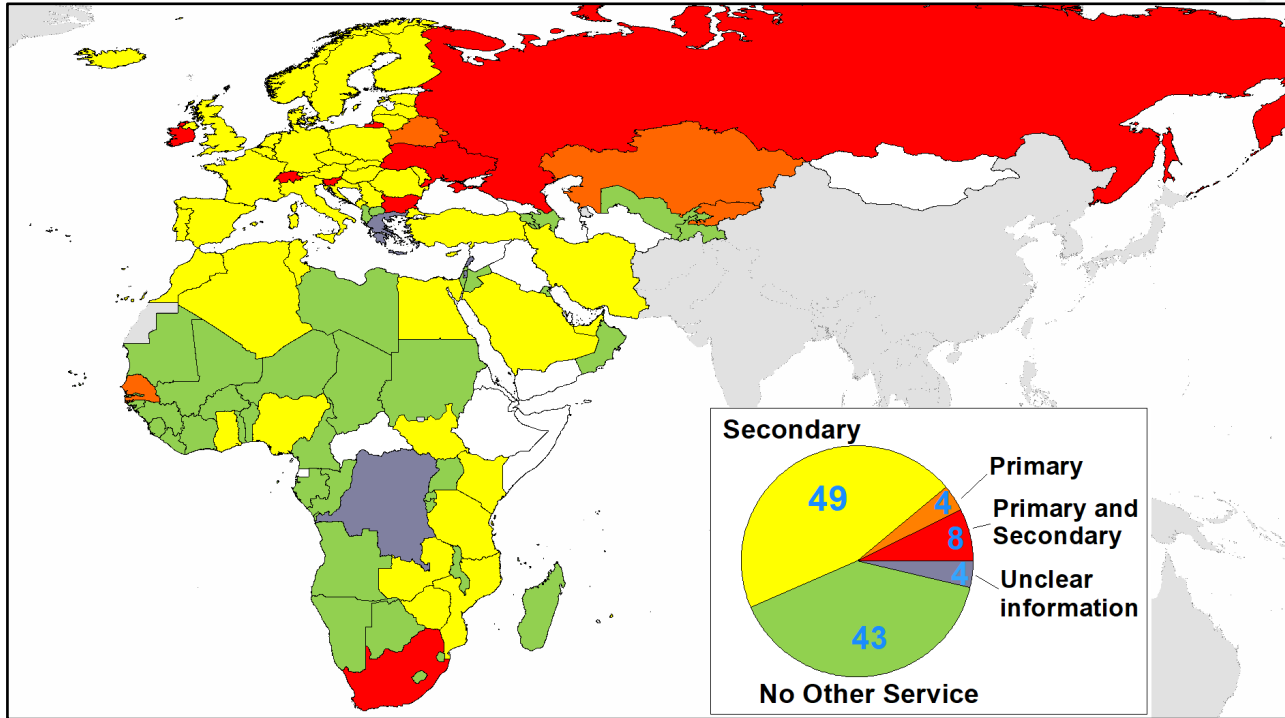


Technological Developments in Broadcasting

- Many countries are now using DVB-T2; others are still migrating from DVB-T
- In some countries, there is interesting in new broadcasting transmission standards and further developments



Other uses of the UHF Band



The BBC logo consists of the letters 'B', 'B', and 'C' each enclosed in a white square, which are then arranged horizontally within a larger dark green square.

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Thank you!

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