

ITU Survey on the Future Spectrum Demands and Use of the Broadcasting Service



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Background To Study

- A number of countries have switched-off analogue television
- Some now considering switch-off of some analogue radio
- Analogue switch-off has reduced the available broadcast spectrum and introduced:
 - sharing between digital radio and digital television
 - multimedia broadcasting
- Since the introduction of digital broadcasting, development of:
 - broadcast standards and compression techniques has increased the available data capacity
 - new applications e.g., HDTV, UHDTV, multimedia, interactivity, multichannel sound has increased broadcasting data requirements

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Television Broadcast Status

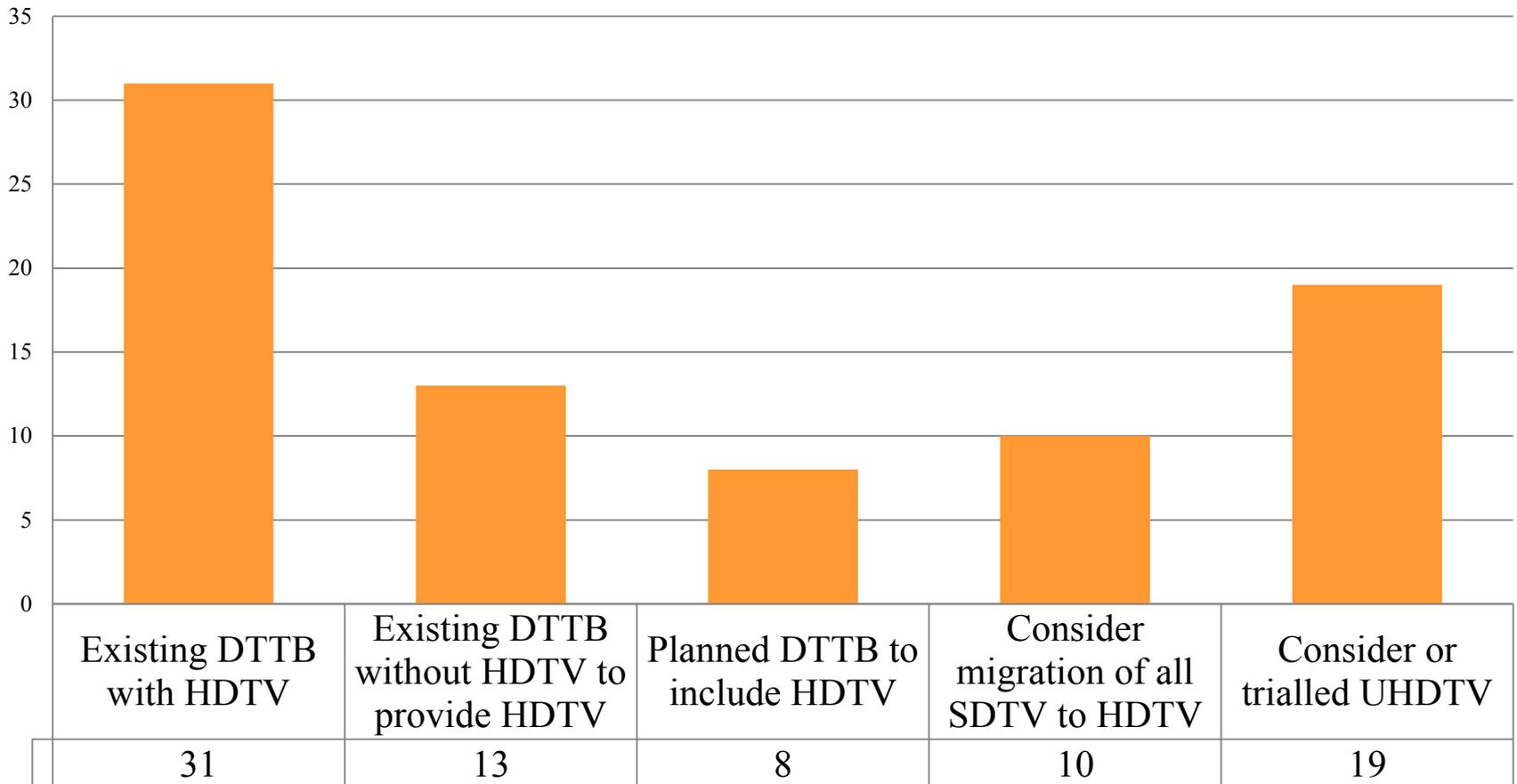
The following figures are based on responses from 63 countries :

- 47 countries are currently operating digital television.
- 12 countries planning to introduce digital television.
- 31 countries are using analogue television.
- 25 of the 31 countries have identified a potential analogue television switch-off date before 2020.

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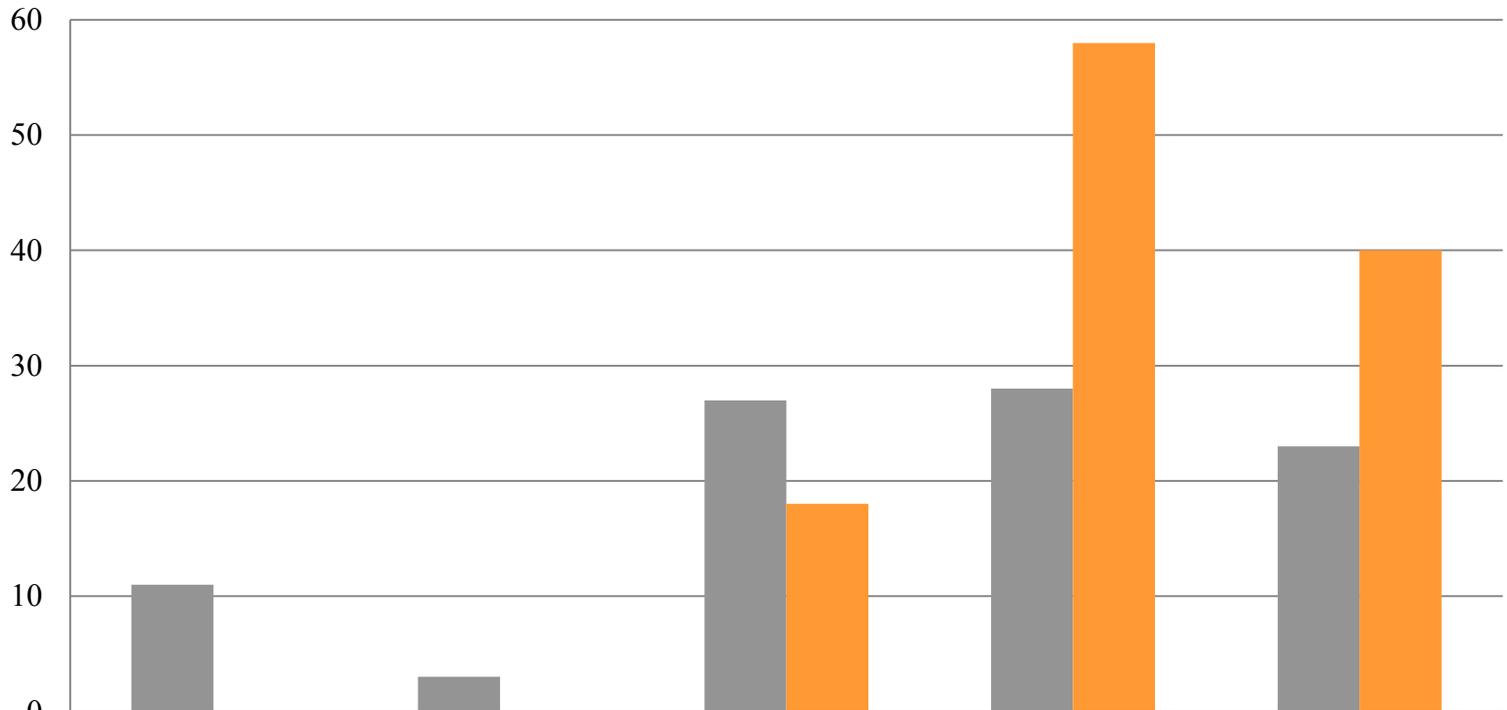
New And Enhanced Digital Television



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Digital Television Band Migration



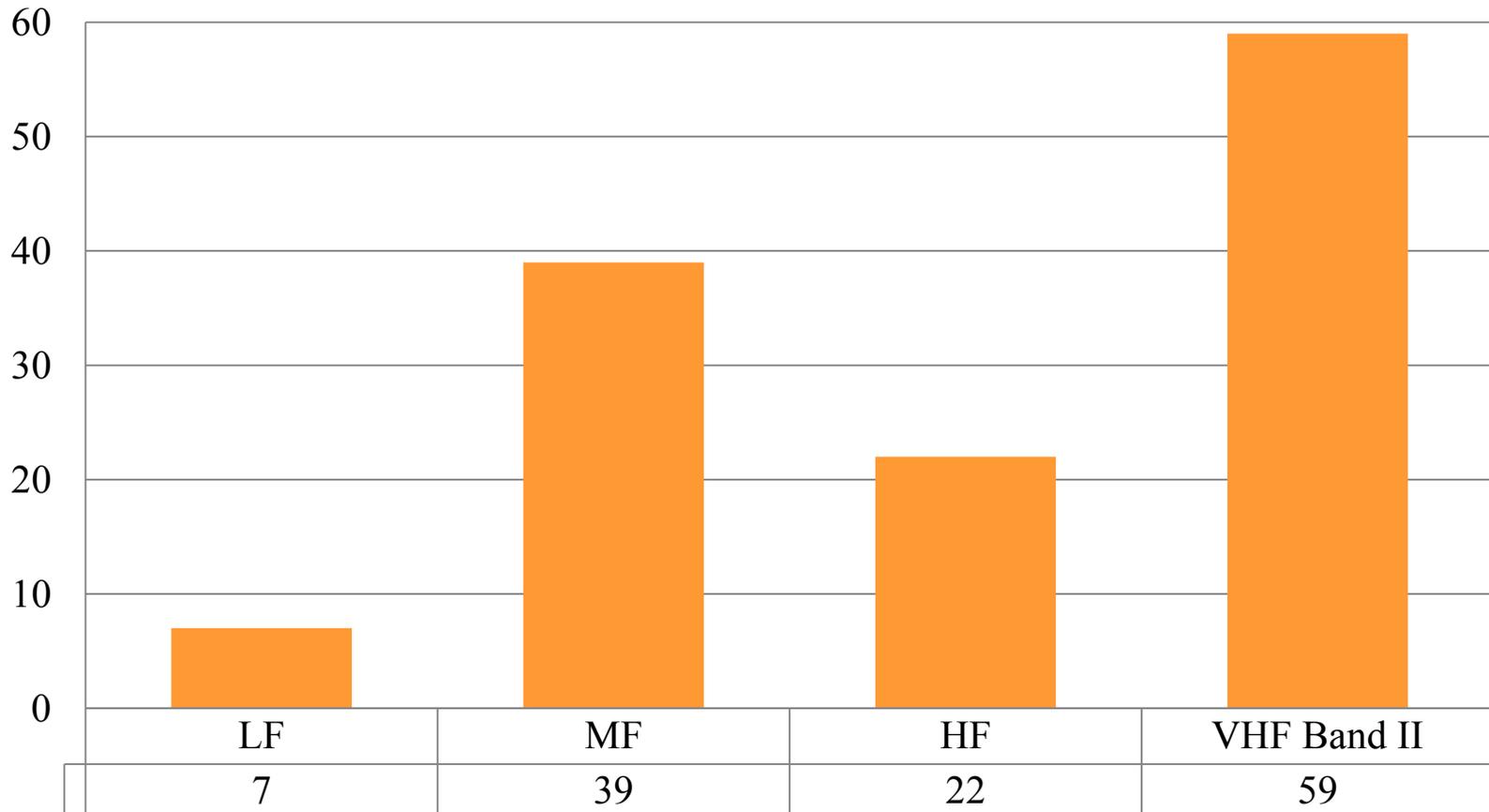
■ Analogue

■ Digital

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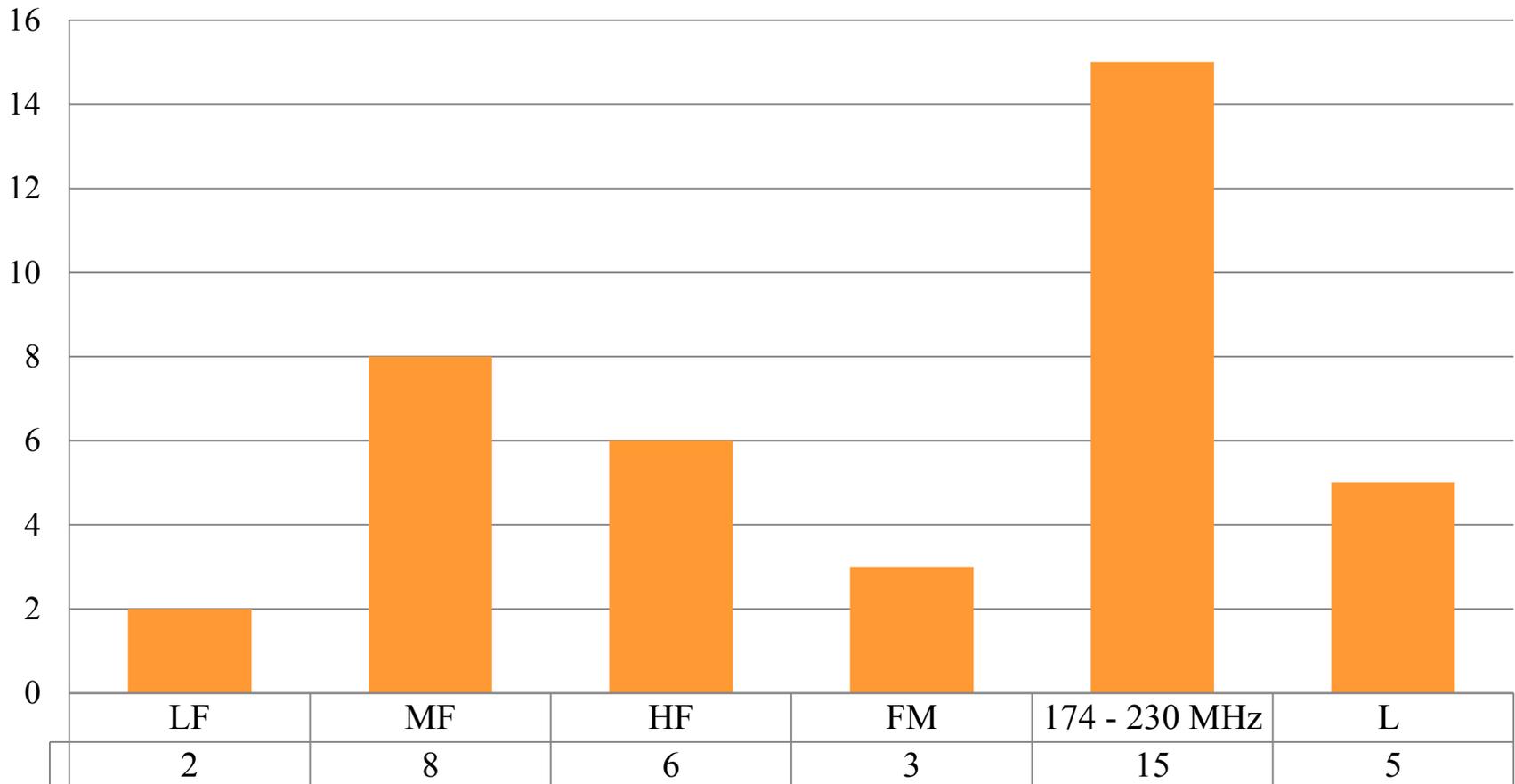
Analogue Radio Frequency Bands



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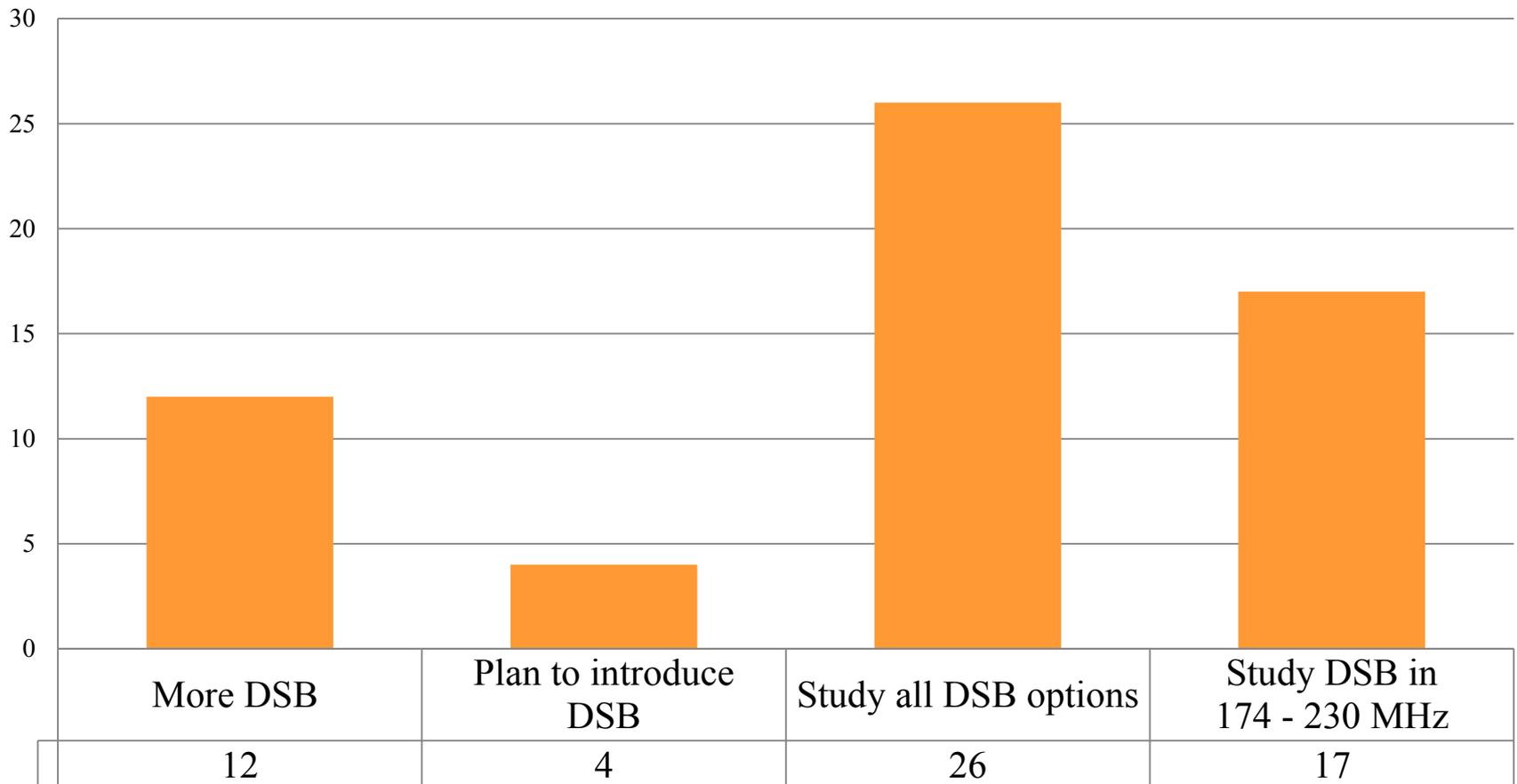
Digital Radio Frequency Bands



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Further Digital Radio Provision



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Multimedia Broadcasting For Handheld Devices

- 27 countries considering or operating multimedia broadcasting in their digital terrestrial provision
- 16 countries have identified the following bands for multimedia implementation and trials

VHF Band II	VHF Band III	UHF
1	10	7

- Systems considered:

ATSC, DVB-T2, DVB-T2 Lite, ISDB, T-DMB

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Presentation References

Circular Letter 6/LCCE/90

Questionnaire on the future spectrum demands
and use of the broadcasting service

<http://www.itu.int/md/R00-SG06-CIR-0090/en>

Preliminary draft new Report

ITU-R BT./BS.[SPECTRUM-REQMTS]

<http://www.itu.int/md/R12-WP6A-C-0570/en>