



สำนักงานคณะกรรมการกิจการกระจายเสียง กิจการโทรทัศน์ และกิจการโทรคมนาคมแห่งชาติ
The National Broadcasting and Telecommunications Commission

5G and Regulatory Ecosystem in Thailand

February 2018

Spectrum Management Bureau

- RESOLUTION **809 (WRC-15)**, Agenda for the 2019 World Radiocommunication Conference
- 1.13 to consider identification of frequency bands for the future development of International Mobile Telecommunications (IMT), including possible additional allocations to the mobile service on a primary basis, in accordance with Resolution **238 (WRC-15)**;
- Task Group **5/1** and Working Party **5D**

Resolution 238 (WRC-15)



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The National Broadcasting and Telecommunications Commission

□ resolves to invite ITU-R

2 to conduct and complete in time for WRC-19 the appropriate sharing and compatibility studies¹, taking into account the protection of services to which the band is allocated on a primary basis, for the frequency bands:

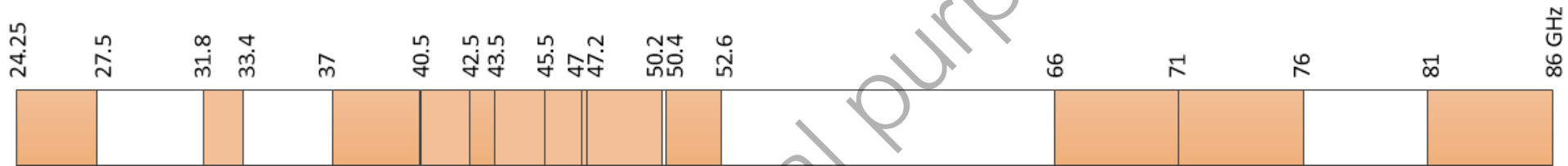
- 24.25-27.5 GHz², 37-40.5 GHz, 42.5-43.5 GHz, 45.5-47 GHz, 47.2-50.2 GHz, 50.4-52.6 GHz, 66-76 GHz and 81-86 GHz, which have allocations to the mobile service on a primary basis; and
- 31.8-33.4 GHz, 40.5-42.5 GHz and 47-47.2 GHz, which may require additional allocations to the mobile service on a primary basis,

For information purposes only

Agenda item 1.13 IMT 24.25-86 GHz



□ Frequency range under the ITU-R study



For informational purposes only

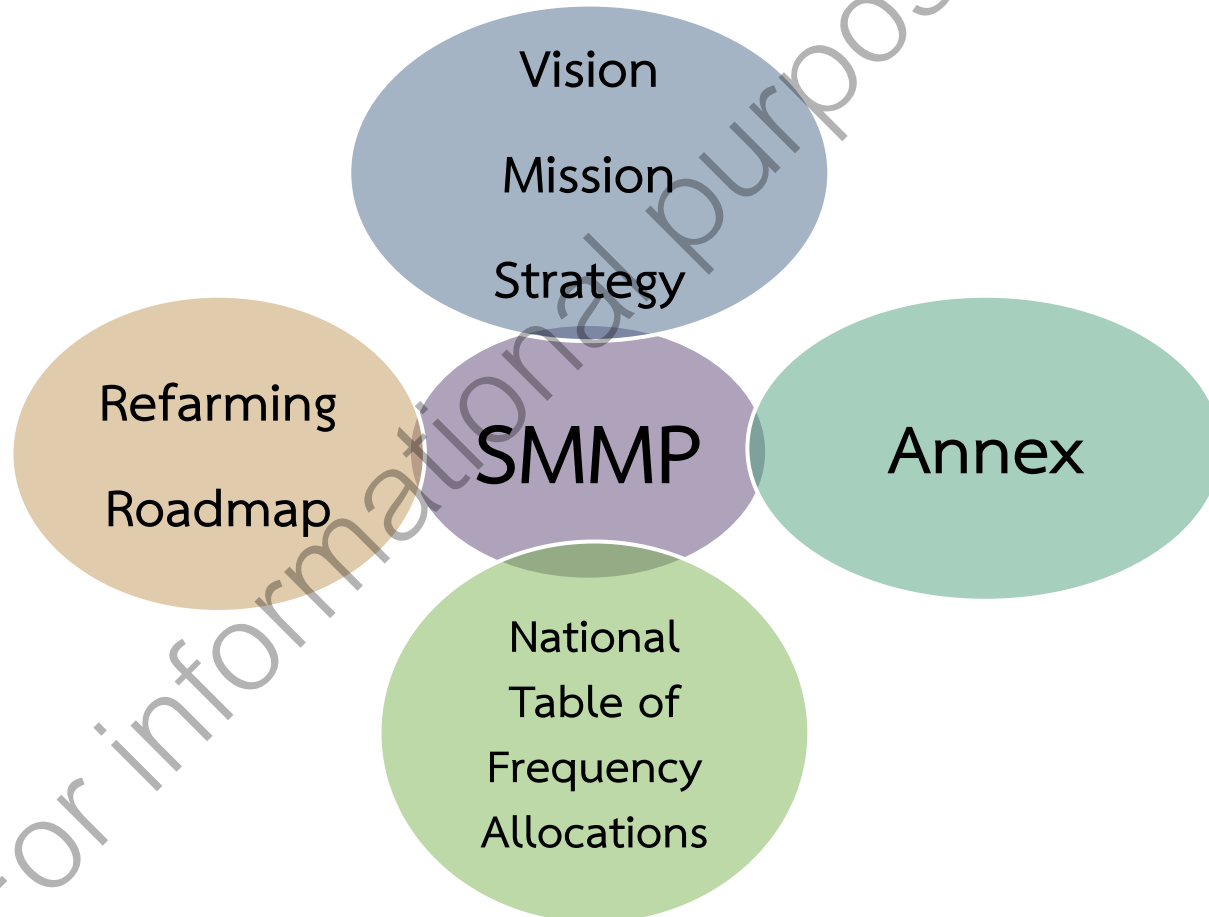
Spectrum Management Master Plan: SMMP



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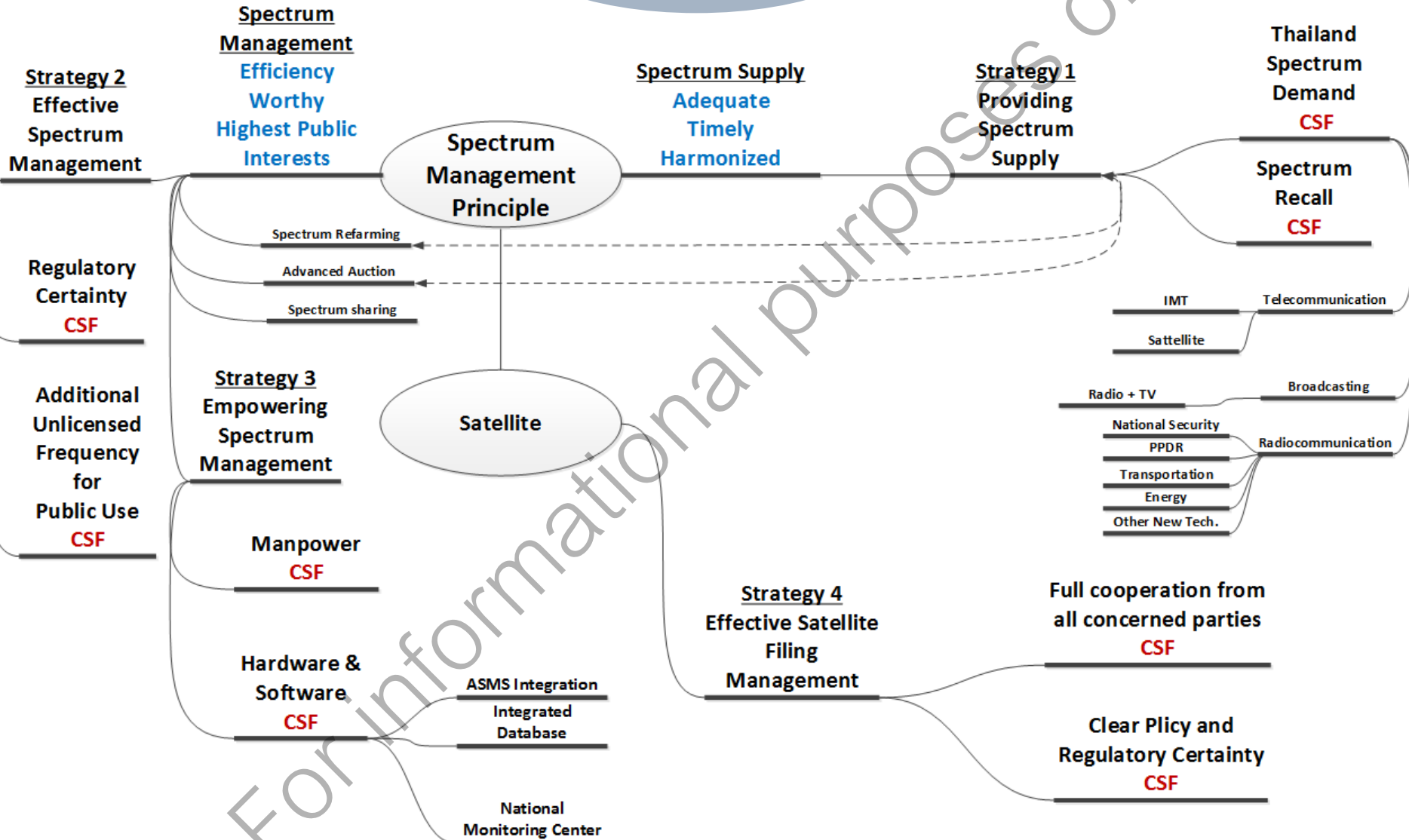
The National Broadcasting and Telecommunications Commission

□ Overview



Strategy

Draft



CSF: Critical Success Factor

Annex

Details of frequency bands allocated for use by the broadcasting, telecommunication, and other services

(appended to The National Broadcasting and Telecommunication Commission Notification on Spectrum Management Master Plan No.3 (B.E. 2560) (2017))

Annex

1 Frequency bands allocated for use by broadcasting service ¹

The frequency bands which are allocated to broadcasting service as indicated in this National Table of Frequency Allocations.

2 Frequency bands allocated for use by telecommunication service ^{1 2 3}

2.1 The frequency bands which are allocated to fixed and mobile services as indicated in this National Table of Frequency Allocations, as follows:

2.1.1 380-399.9 MHz

2.1.2 410-430 MHz

2.1.3 450-470 MHz

2.1.4 698-960 MHz

2.1.5 1427-1518 MHz

2.1.6 1710-2025 MHz

2.1.7 2110-2200 MHz

2.1.8 2300-2400 MHz

2.1.9 2500-2690 MHz

Table of Frequency Allocation

Allocation to services		
Region 1	Region 2	Region 3
2 700-2 900	AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423 5.424	
2 900-3 100	RADIOLOCATION 5.424A RADIONAVIGATION 5.426 5.425 5.427	
3 100-3 300	RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.149 5.428	
3 300-3 400 RADIOLOCATION 5.149 5.429 5.430	3 300-3 400 RADIOLOCATION Amateur Fixed Mobile 5.149	3 300-3 400 RADIOLOCATION Amateur 5.149 5.429

Service footnotes

Primary service

Secondary service

Band footnotes



Mid Term (within 5 years)

MF	526.5 – 1606.5 kHz	Broadcasting T-P1
UHF	470-694 MHz	Digital Television T-P4
	698-806 MHz	IMT T-P4
SHF	4.4-5.0 GHz	Fixed Microwave Link & PPDR
	5350 – 5470 MHz	
EHF	24-77 GHz	IMT (WRC-19)

Refarming
Roadmap

Draft

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Way forward

- Licensed (Auction or not?) or unlicensed frequency
- Licensed or unlicensed radiocommunication equipment
- Business licenses required?

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Thank You

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