Country practices on 5G: THAILAND

Pratompong Srinuan, Ph.D.

The office of National Broadcasting and Telecommunication committee

Outline

- States of arts
- Spectrum Roadmap
- C-band situation and field trial
- Regulatory sandbox
- Spectrum Auction 2020

THAILAND IMT Spectrum



To be used for IMT

700 MHz: 2x15 MHz

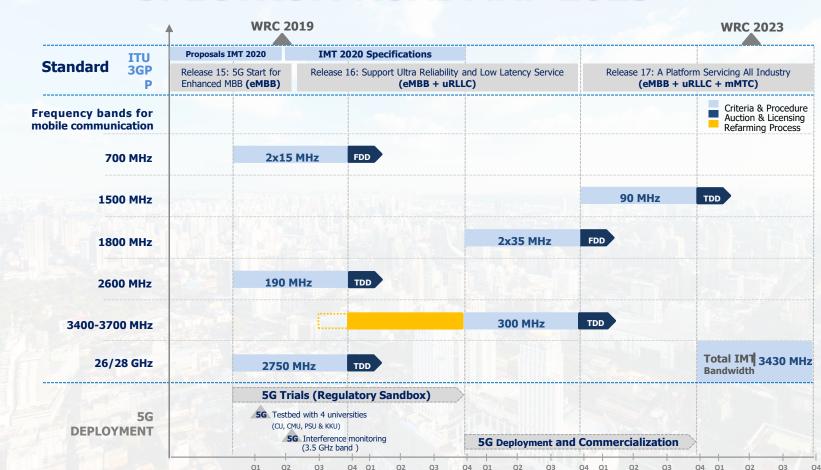
2600 MHz: 190 MHz

26 GHz : 2.75 GHz

28 GHz : 2.5 GHz

3.4 GHz : 0.3 GHz

SPECTRUM ROADMAP 2023



2020

2021

2022

2023

IMT Bands

IN THAILAND

2018

2019

5G/IMT Spectrum in Thailand

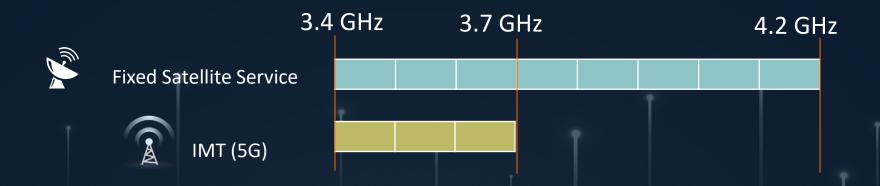


Existing use C-Band



Field trial for Interference test

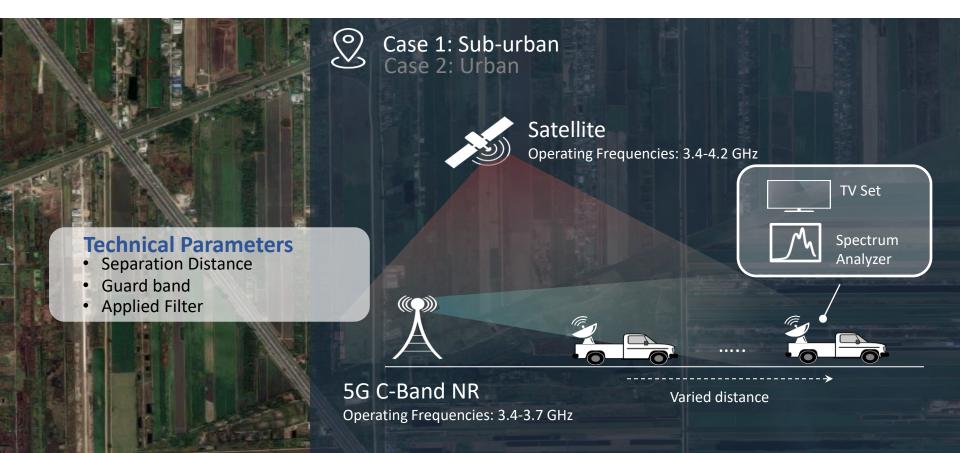
between IMT and FSS in 3.5 GHz



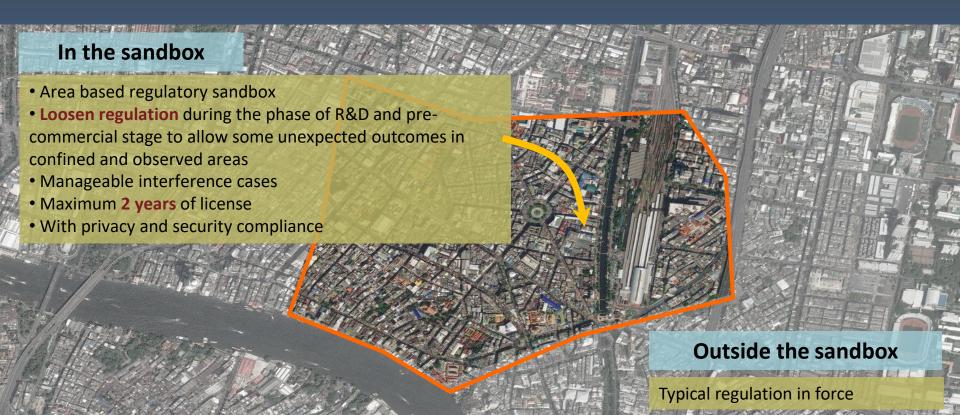
Objective: To find the following optimal parameters for sharing and compatibility

- Separation distance between FSS and IMT stations
- Possible guard band
- 3 Possible filter for interference mitigation

Field Trial Setting



Regulatory Sandbox



Expected areas for sandbox



Spectrum Auction 2020

700 MHz



3 lots

Nationwide

3 licenses

2.6 GHz

2500				2685		
	10	10	10	10	10	
	MHz	MHz	MHz	MHz	MHz	

19 lots

Nationwide

19 licenses

26 GHz

24.3	24.4		26.9	27.0	
100 MHz	100 MHz	100 MHz	100 MHz	100 MHz	

27 lots/cluster

18 clusters

468 licenses



- Metropolitan of Central Region
- Eastern Region 1
- Upper Central Region
- Southern region (Thai Gulf Coast)
- 5. Lower Central Region 2
- 6. Eastern Region 2
- 7. Lower Northeastern Region 1
- 8. Southern Region (Andaman Coast)
- 9. Lower Central Region 1
- 10. Central Northeastern Region
- 11. Upper North Region 1
- 12. Upper Northeastern region 1
- 13. Lower Northeastern Region 2
- 14. Southern Region (Border)
- 15. Upper North Region 2
- 16. Lower North Region 1
- 17. Lower North Region 2
- 18. Upper Northeastern Region 2

