



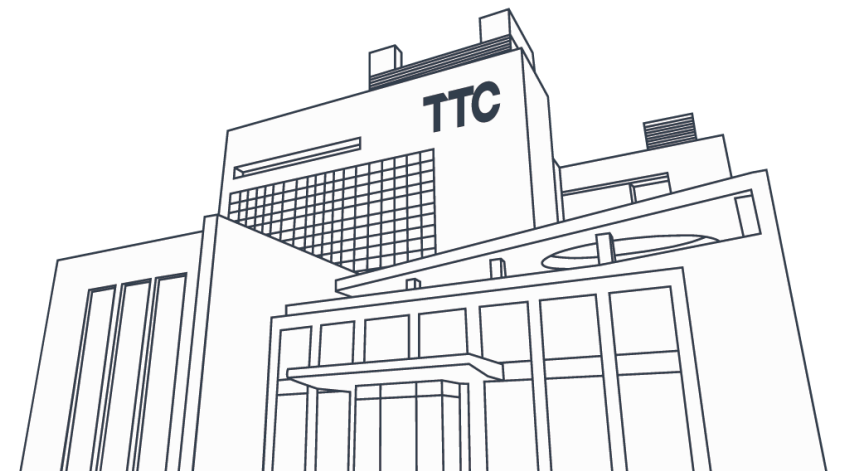
財團法人電信技術中心
TELECOM TECHNOLOGY CENTER

Spectrum Utilization & new bands in Taiwan

EU-Taiwan 6G Joint Workshop

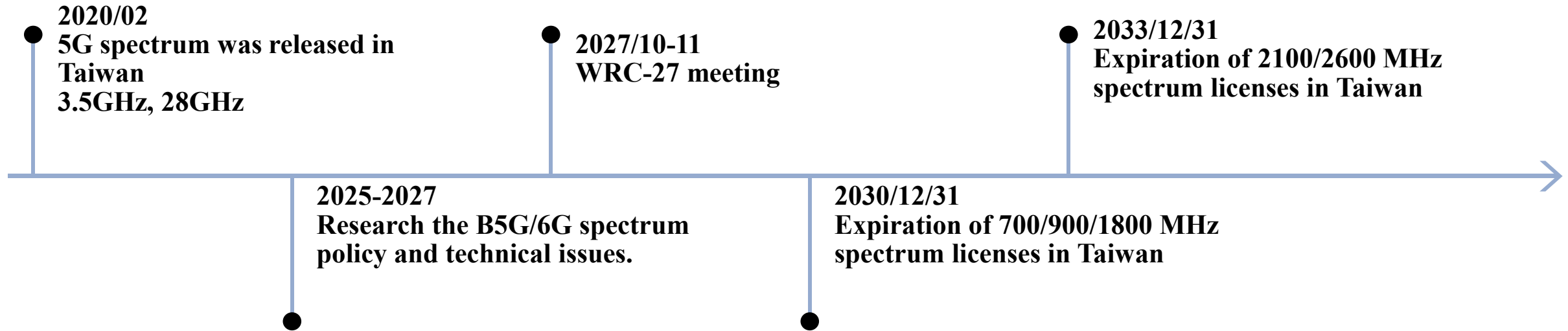
Keith WU, 6G IF SIG3 WG2 Leader / TTC

22 SEP 2026



1

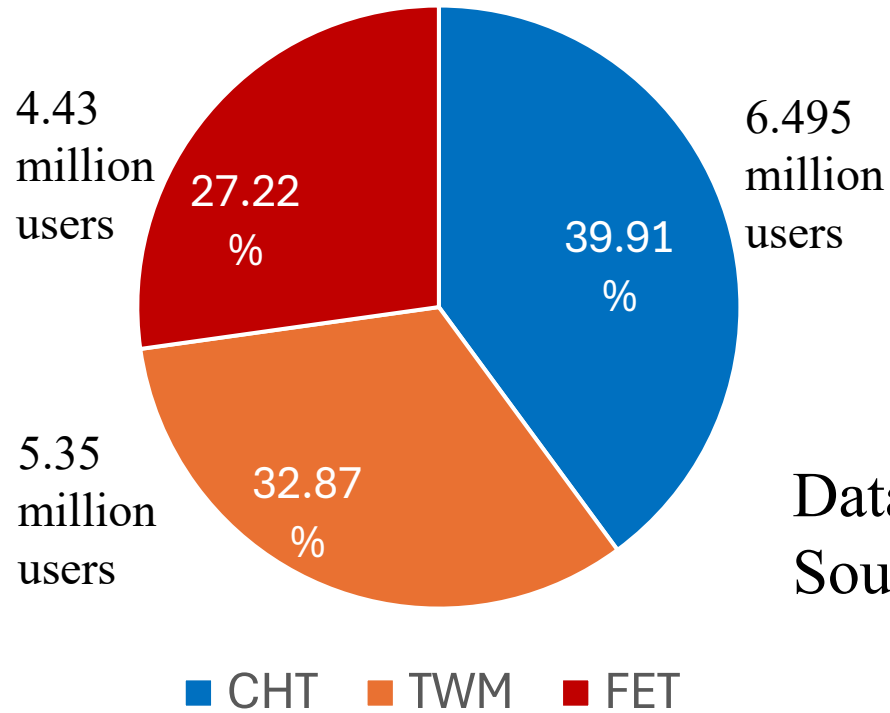
5G/6G Spectrum development timeline in Taiwan



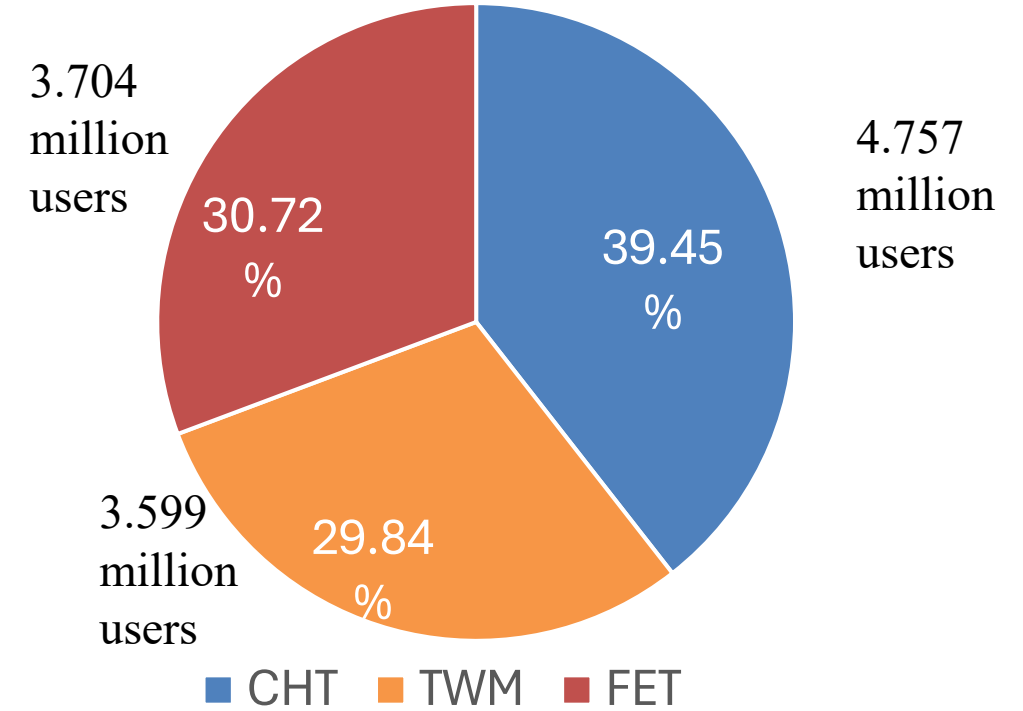
- Study international trends in spectrum allocation and identify candidate frequency bands for future spectrum release.
- Conduct research on spectrum coexistence technologies and assess releasable frequency bandwidth resources.
- Conduct research on spectrum release mechanisms and recommend suitable auction mechanisms.
- Initial commercial 6G network deployments and launches expected in many countries by 2030–2031.
- Conduct research to provide policy recommendations for promoting 6G network deployment and innovative applications.

2

Mobile Market status in Taiwan



4G Subscriber Distribution



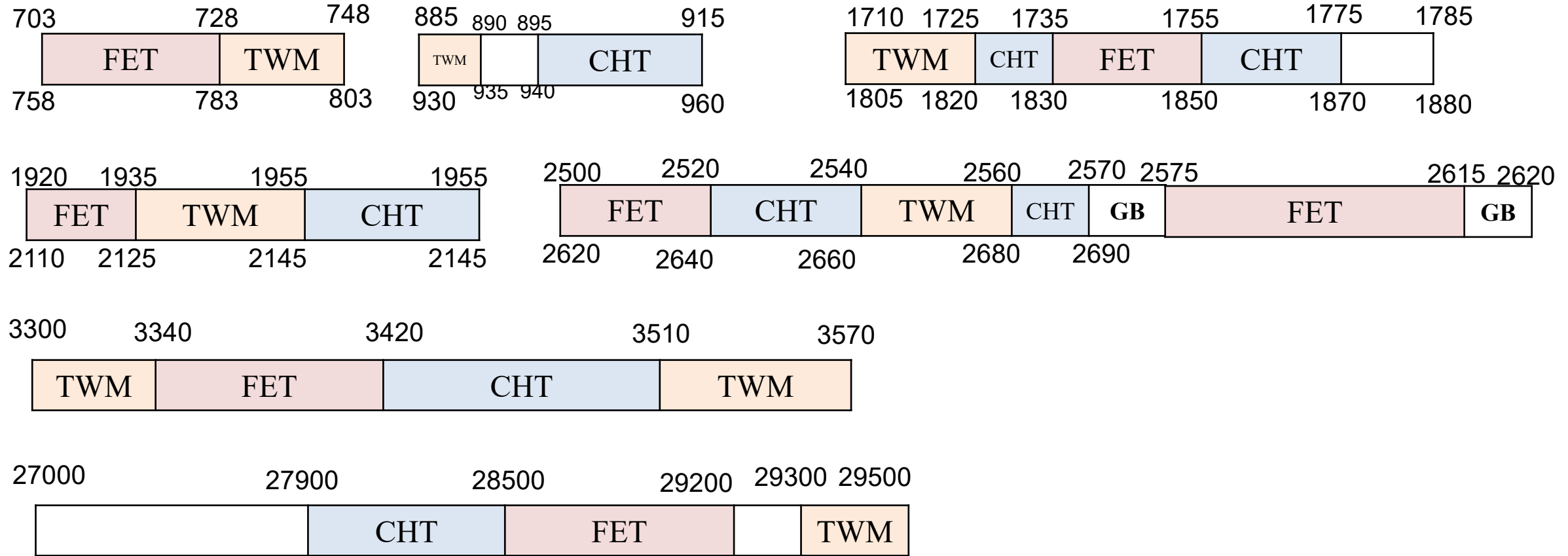
5G Subscriber Distribution



Taiwan Mobile

中華電信
Chunghwa Telecom

3 Mobile Spectrum Allocation status in Taiwan



Taiwan Mobile



中華電信
Chunghwa Telecom



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B5G/6G potential candidate spectrum and new bands in Taiwan

Expiring and Vacant Frequency Bands

- Expiration in 2030/12/31 : 700 、 900 、 1800 MHz band
- Expiration in 2033/12/31 : 2100 、 2600 MHz band
- Vacant band : 600 MHz band

Evaluate Frequency Bands

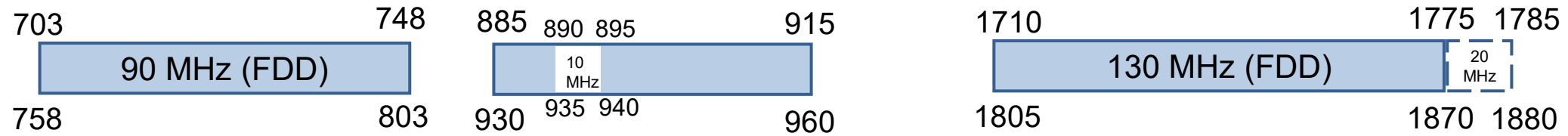
- Upper 4 band
 - Incumbent : Private 5G used 4.8-4.9 GHz
- Upper 6 band
 - Incumbent : Microwave system and satellite system

WRC-27 for IMT spectrum

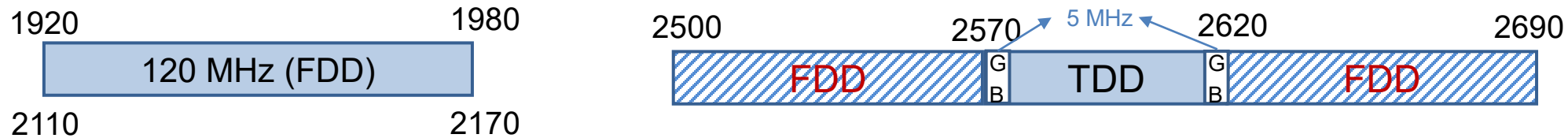
- Such frequency bands are subject to WRC resolutions, international developments, and the assessment of domestic usage.
- 4.4-4.8 GHz
 - 7.125-8.4 GHz
 - 14.8-15.35GHz

5 Expiring and Vacant Frequency Bands

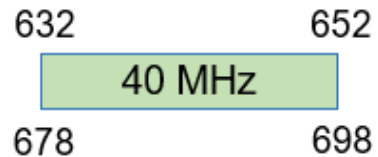
◆ Expiration in 2030/12/31 : 700 / 900 / 1800 MHz



◆ Expiration in 2033/12/31 : 2100 / 2500 & 2600 MHz



◆ Vacant Frequency Bands : 600 MHz

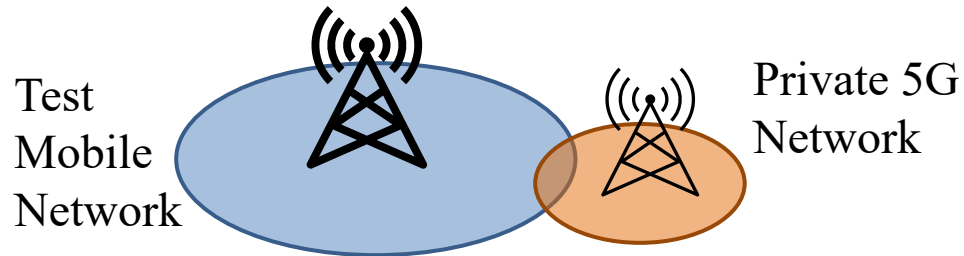
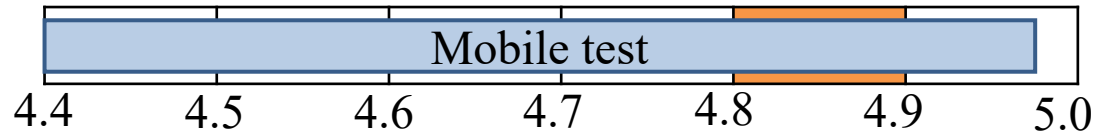


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Spectrum utilization, harmonization measure and interference field test

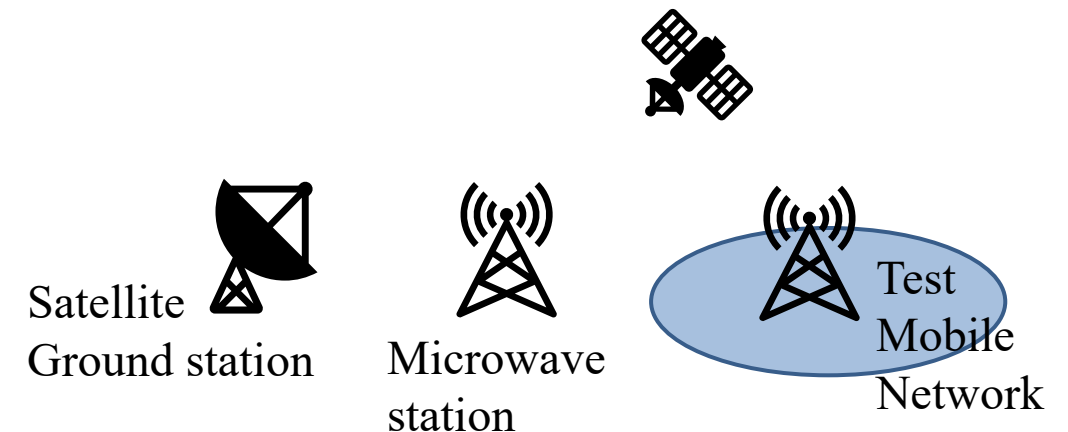
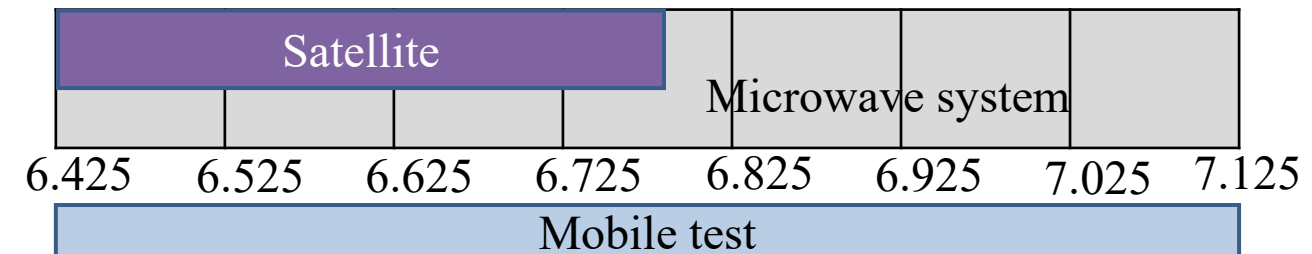
Upper 4 Band interference test

- Interference test band : 4400-4990 MHz
- Test item : Base Station adjacent channel inference and UE terminal interference



Upper 6 Band interference test

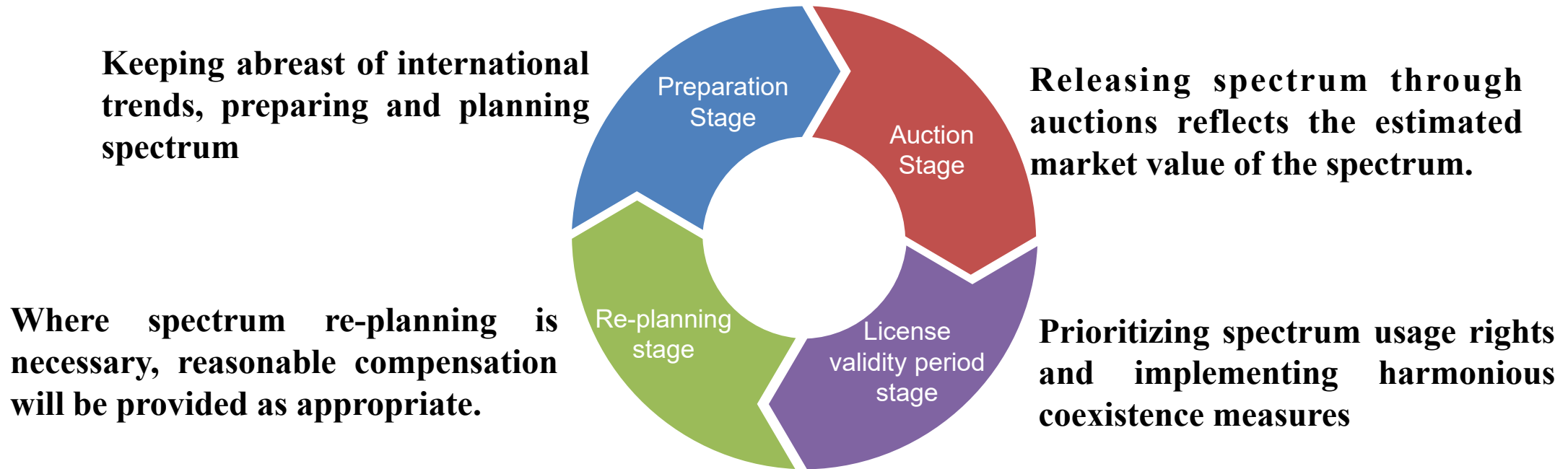
- Interference test band: 6425-7125 MHz
- Test item : Evaluate the impact of base stations on existing operators such as microwave systems and satellite earth stations.



7

Takeaways: Key moment for B5G/6G spectrum policy

- Based on ITU WRC-27 resolutions, implement subsequent spectrum planning and preparation measures.
- Determining releasable frequency bands and bandwidth amounts based on empirical measurement results and industry demand.
- Ongoing monitoring of technological trends, preparation of requisite spectrum resources, and release through auctions to reflect market spectrum value.



Thank you for your listening

