

APAC Preparatory Workshop to ITU WRC-23
(Bangkok: 13-14 February 2023)

Current Status of Radio Altimeter and 5G in Japan

Agenda Item 4 - Radio Altimeter and 5G issues

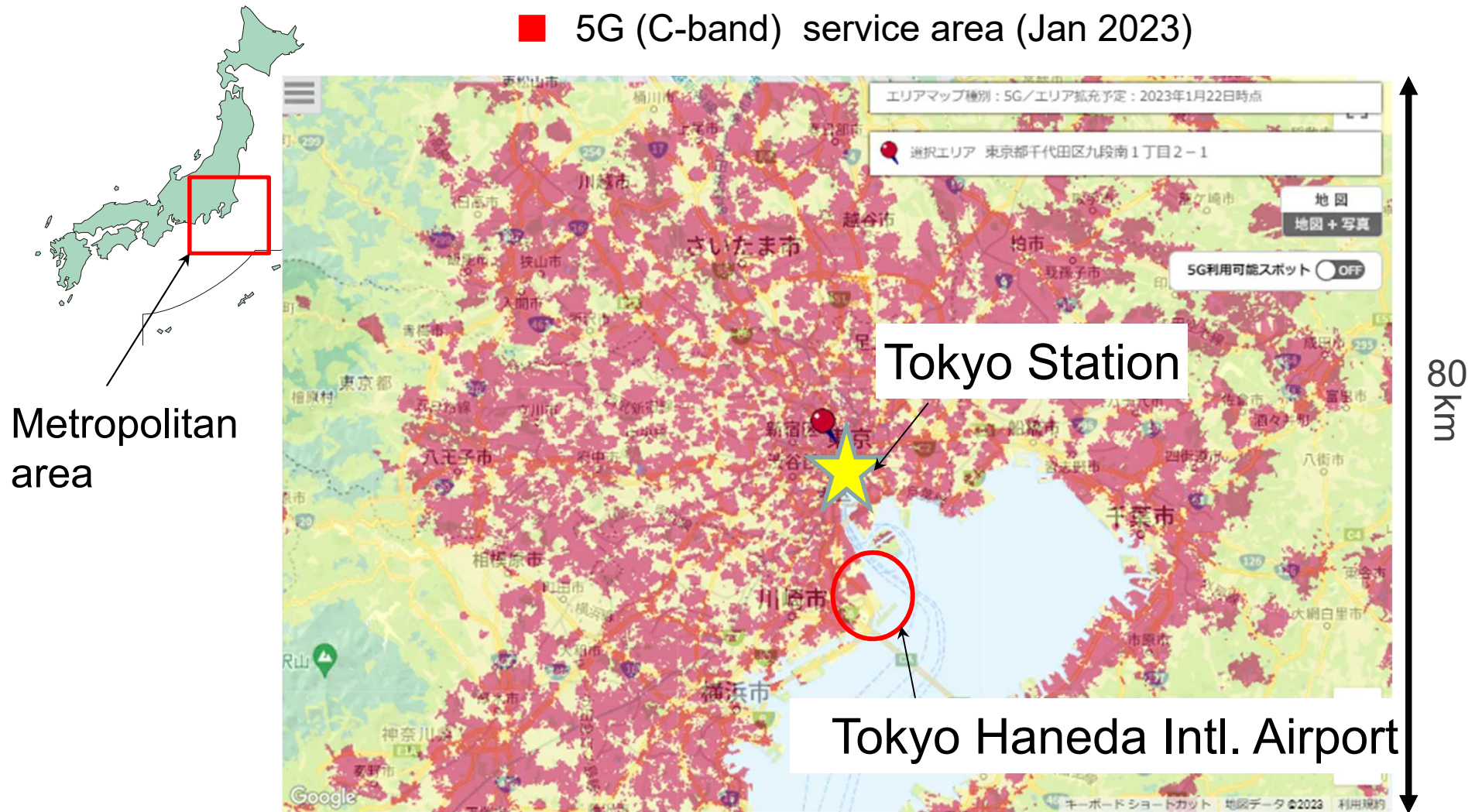
Presented by:
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Japan CAB

1. 5G services deployment in Japan
2. Laws and regulations of 5G in Japan

Service area of 5G in the metropolitan area of Japan.

Ministry of Land, Infrastructure, Transport and Tourism

■ 5G (C-band) service area (Jan 2023)



https://www.nttdocomo.co.jp/area/servicearea/?rgcd=03&cmcd=5G&scale=2048000&lat=35.690767&lot=139.756853&icid=CRP_IPH_area-5g_to_CRP_AREA_servicearea

Service area of 5G in and around Haneda Airport.

Ministry of Land, Infrastructure, Transport and Tourism

■ 5G (C-band) service area (Jan 2023)



https://www.docomo.ne.jp/area/servicearea/?rgcd=03&cmcd=5G&scale=2048000&lat=35.690767&lot=139.756853&icid=CRP_IPH_area-5g_to_CRP_AREA_servicearea

Laws and regulations of 5G in Japan

Ministry of Land, Infrastructure, Transport and Tourism

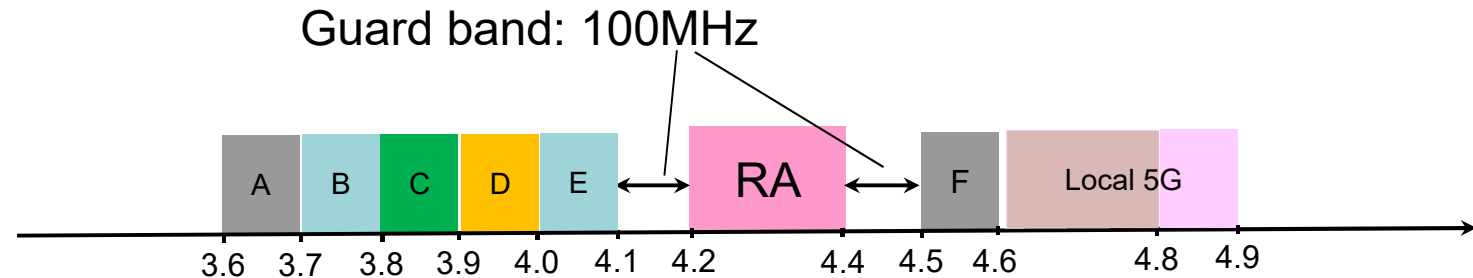
- 5G services in Japan started in 2020.
- Before that, the special committee held by MIC* developed recommendations on 5G regulations.
 - * MIC (Ministry of Internal Affairs and Communications) is the radio regulatory authority in Japan.
- 5G regulations include:
 1. Guard bands
 2. Limits on undesired emission
 3. Protection areas
- Laws and Regulations of 5G are also compliant with ITU Radio Regulation.
- There have been no reports of harmful interference to the radio altimeters from 5G.

Laws and regulations of 5G in Japan

Ministry of Land, Infrastructure, Transport and Tourism

1. Guard bands

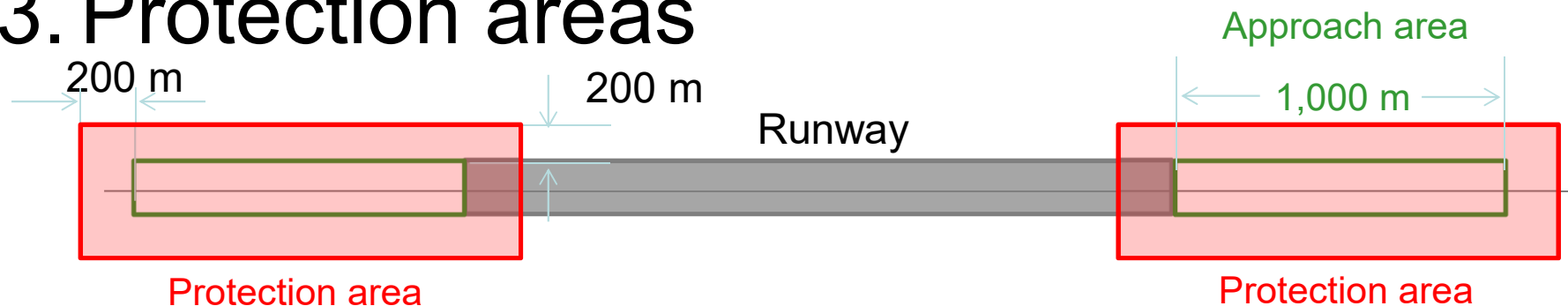
- 5G mobile base stations are operate in 3.7 GHz band (3.6 GHz-4.1 GHz), and 4.5 GHz band (4.5 GHz-4.6 GHz).



2. Limits on spurious in RA band.

- 5G base stations are required to suppress their spurious in RA band under -46dBm for over 25 dBm/MHz (EIRP) and under -39 dBm/MHz for else.

3. Protection areas



Thank you for your attention