

SPECTRUM THE FUNDAMENTAL ELEMENT OF MOBILE







About the GSMA





GSMA's spectrum program

VISIONAdvocate for timely, affordable and fair access to a sufficient
amount of spectrum to connect more people and meet rapidly
rising data demand

OBJECTIVEWork with operators, regulators and international organisations
to facilitate access to high speed, high quality mobile broadband
services and connect everyone and everything to a better future



Making connections





Benefitting the broader economy



Source: GSMA Intelligence



Driving employment





Connecting the unconnected

DIGITAL INCLUSION

Delivering digital inclusion to the still unconnected populations.

MOBILE INTERNET PENETRATION

18% 2016 • 2020 60%





Harmonization











Reality



-

next



Positive impact of spectrum harmonisation







5G spectrum outlook





WRC-15 – more capacity, better coverage

700 MHz is now a globally harmonised band for improved coverage



Harmonisation of the **C-band (3.4** to 3.6 GHz) for improved capacity

Global harmonisation of the the **L-band (1427-1518 MHz)** for improved coverage and capacity

But remember this is only the first step...



5G – work to harmonise spectrum is far from done

600 MHz 700 MHz C-Band 26 GHz 28 GHz



ITU-R Activity: Radio Regulations

From a spectrum regulation perspective, the world is divided into three regions





The GSMA's key positions on AI 1.13

- A successful identification of spectrum for IMT under Agenda Item 1.13 is vital to realise <u>the full potential</u> of mobile 5G networks
- 2. At this point in the WRC-19 cycle, the GSMA supports focusing studies on the 26 GHz, 32 GHz and 40 GHz bands. <u>The 26 GHz band has the highest priority</u>
- 3. Bands above 24 GHz offer <u>a good opportunity</u> for the coexistence of 5G and other wireless services
- 4. Bands above 45 GHz also need further consideration



WRC-19 is fast approaching









https://www.gsma.com/spectrum/wrc-series



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