Global mobile Suppliers Association

ERICSSON HUAWEI intel. MEDIATEK NOKIA Qualcomm SAMSUNG ZTE

The 2nd India Spectrum Management Conference

Session 2: WRC-23 – Key Issues, Challenges & Opportunities and how the WRC-23 preparatory process is progressing

Global Preparatory activities for WRC-23

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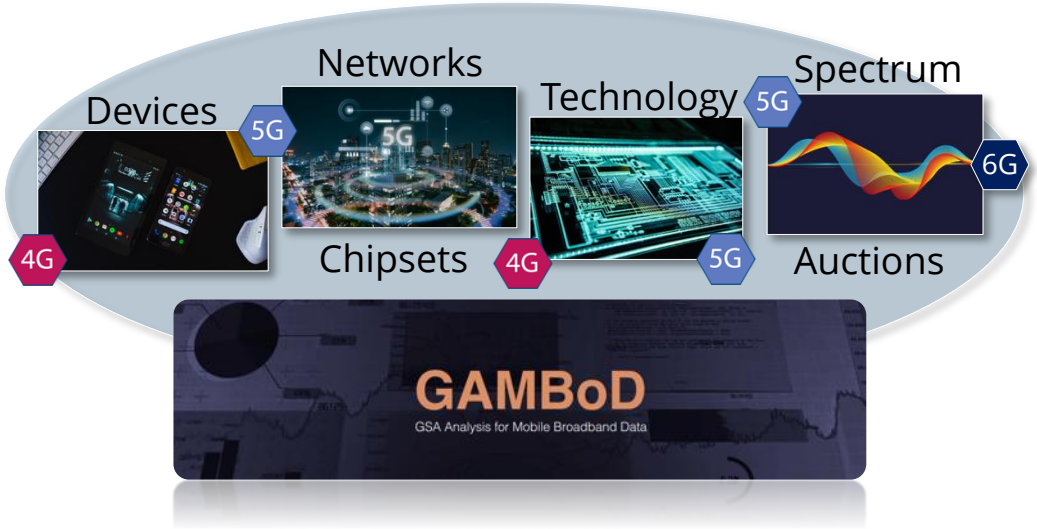
6th December 2022

GSA

About GSA

- Representing the global mobile ecosystem since 1998
- Major Industry Executives are members
- Extensive research & database
  - Free industry reports
  - Member reports & GAMBoD Access
- GSA Spectrum Group
  - 185+ participants regionally grouped
  - Advocacy, education and technical support
  - Cooperation with other industry groups such as COAI, CTIA, GSMA, TechUK, etc
- GSA Standards Group
  - 6G-Joint Working Group
- Focused Working Groups & Forums
- 87 Associates subscribing to GSA data
  - Regulators-Analysts-Operators etc.



10 billion 3GPP connections surpassed in 2022

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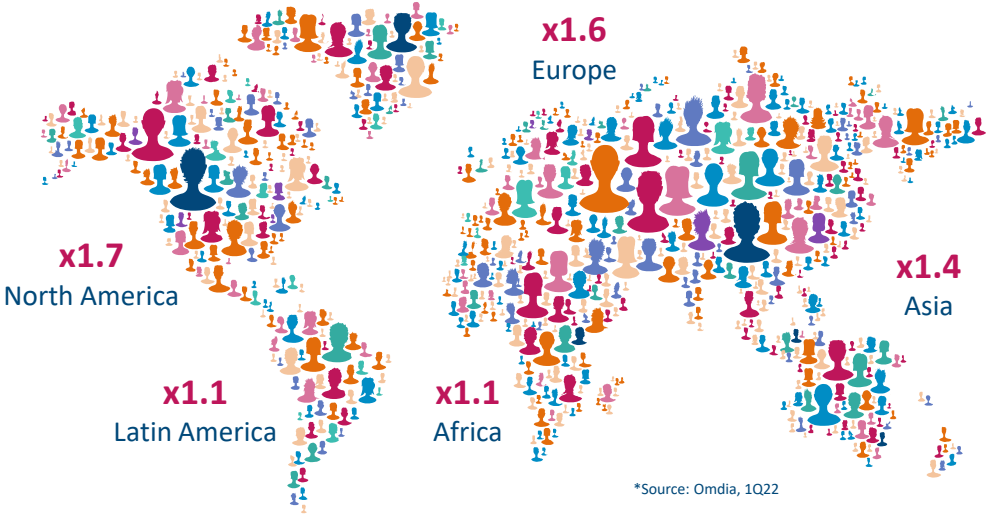
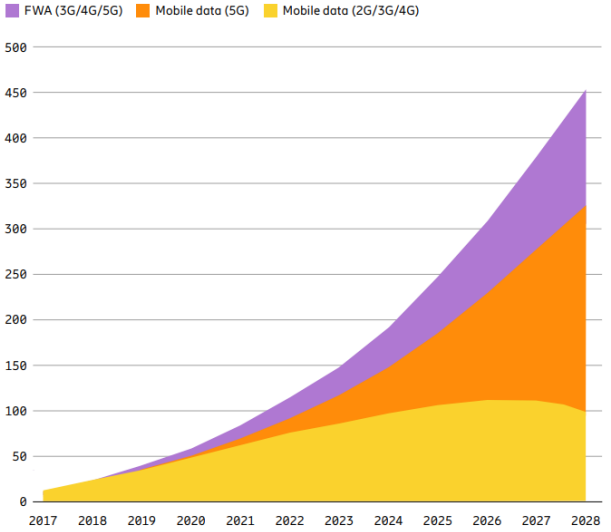
Number of 3GPP-based connections per head of the population in 2Q22



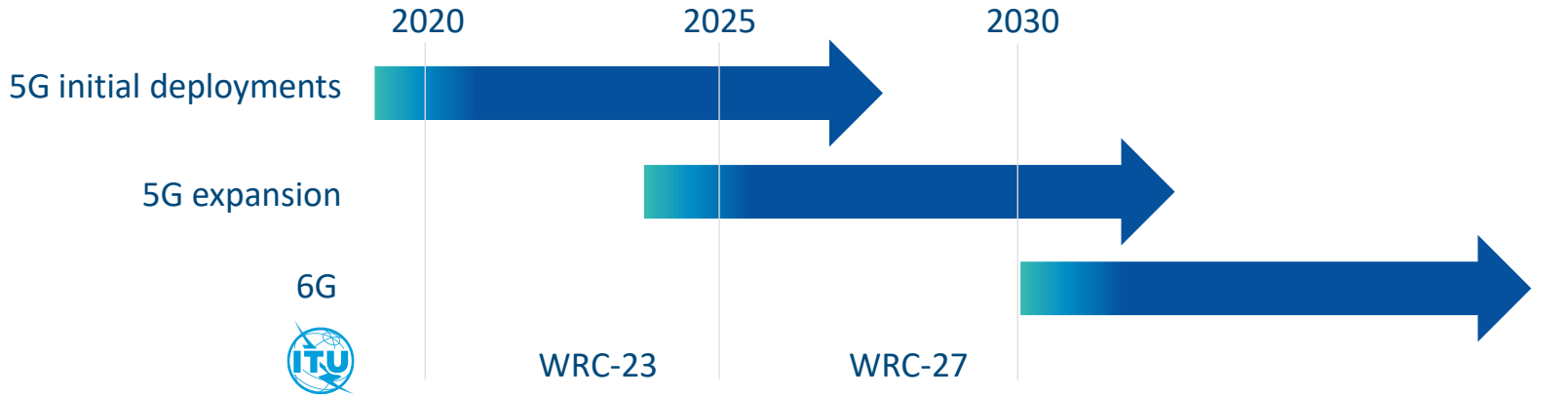
*Source: Omdia, 1Q22

Global mobile data traffic (EB per month)



Source: Ericsson Mobility Report, November 2022
Note: Data traffic forecast, both global and regional, represents the estimated traffic volume in all networks over the duration of a month. Traffic, in terms of throughput, in high-traffic areas will be much higher than the average traffic.

IMT/3GPP Spectrum: 2020 to 2030



Band (MHz)	470 - 960	3300 - 3400	3600 - 3800	4800 - 4990	6425 - 7025	7025 - 7125	10000-10500
Region 1	AI 1.5	AI 1.2	AI 1.3	AI 1.1	AI 1.2	AI 1.2	
Region 2			AI 1.2				AI 1.2
Region 3							

GSA views on WRC-23 Agenda Items

AI1.1

- GSA supports WRC-23 efforts to expand the IMT use in the 4800-4990 MHz band
- The current pfd limit constraints IMT deployments; studies should focus on regulatory aspects

AI1.2

- 3.3-3.8 GHz: GSA supports identifications in this range to increase global IMT availability
- 6 425-7 025 MHz (Region 1): GSA supports studies towards IMT identification in this region
- 7 025-7 125 MHz (globally): GSA supports studies towards IMT identification at WRC-23
- 10-10.5 GHz (Region 2): GSA is following studies towards IMT identification at WRC-23

AI1.3

- GSA supports the primary allocation of the band 3 600-3 800 MHz to the mobile service in Region 1 to further benefit from the already large existing ecosystem in this band, with usage conditions not more restrictive than for the 3400-3600 MHz band (ref. RR No. 5.430A)

AI1.5

- GSA supports the primary allocation of the band of 470-694 MHz to the mobile service in Region 1, to open possibilities to further harmonize it with other countries outside of Region 1

AI10

- GSA proposes a new agenda item for IMT at WRC27

Key Takeaways

- Planning for future mid-Band ‘expansion’ spectrum is needed to provide advanced 5G services with adequate coverage-capacity
- To benefit from economies of scale and globally harmonized IMT eco-systems, GSA supports WRC-23 efforts to facilitate and further expand the use of IMT under AI 1.1, 1.2, 1.3 and 1.5, as well as consideration/study of new bands for additional spectrum for IMT under AI 10 towards WRC-27

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The Industry Voice of the Global Mobile Ecosystem

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