

# 5G Global status and use cases

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Terrestrial Wireless Broadband Technologies and Use Cases  
ITU-D, SG1

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# WRC-23

## For the Benefit of Billions



WRC-23

 **163**  
Countries

 **3900**  
Attendees

The Mobile Effort

 **6000**  
GSMA  
team hours

 **8**  
Vendors

**7** Groups chaired  
by GSMA  
and members

 **39**  
MNOs

 **129**  
People  
in total

**2** Partners on  
the stand  
GSA  ERICSSON

The Results



6 GHz

- IMT throughout EMEA and CIS
- IMT country footnotes for APAC and Americas



3.5 GHz

- Harmonisation throughout EMEA, CIS and the Americas



Low Bands

- IMT throughout Middle East in 600 MHz
- Mobile allocations in Europe and parts of Africa

WRC-27 Agenda

| Region 1                           | Region 2        | Region 3        |
|------------------------------------|-----------------|-----------------|
| 4 400-4 800 MHz                    |                 | 4 400-4 800 MHz |
| 7 125-7 250 MHz<br>7 750-8 400 MHz | 7 125-8 400 MHz | 7 125-8 400 MHz |
| 14.8-15.35 GHz                     | 14.8-15.35 GHz  | 14.8-15.35 GHz  |



Direct to Device

Mobile satellite in IMT bands between **694/698 MHz** and **2.7 GHz**



New Mobile Satellite

**1 427-1 432 MHz**  
**1 645.5-1 646.5 MHz**  
**1 880-1 920 MHz**  
**2 010-2 025 MHz**  
**2 120-2 170 MHz**

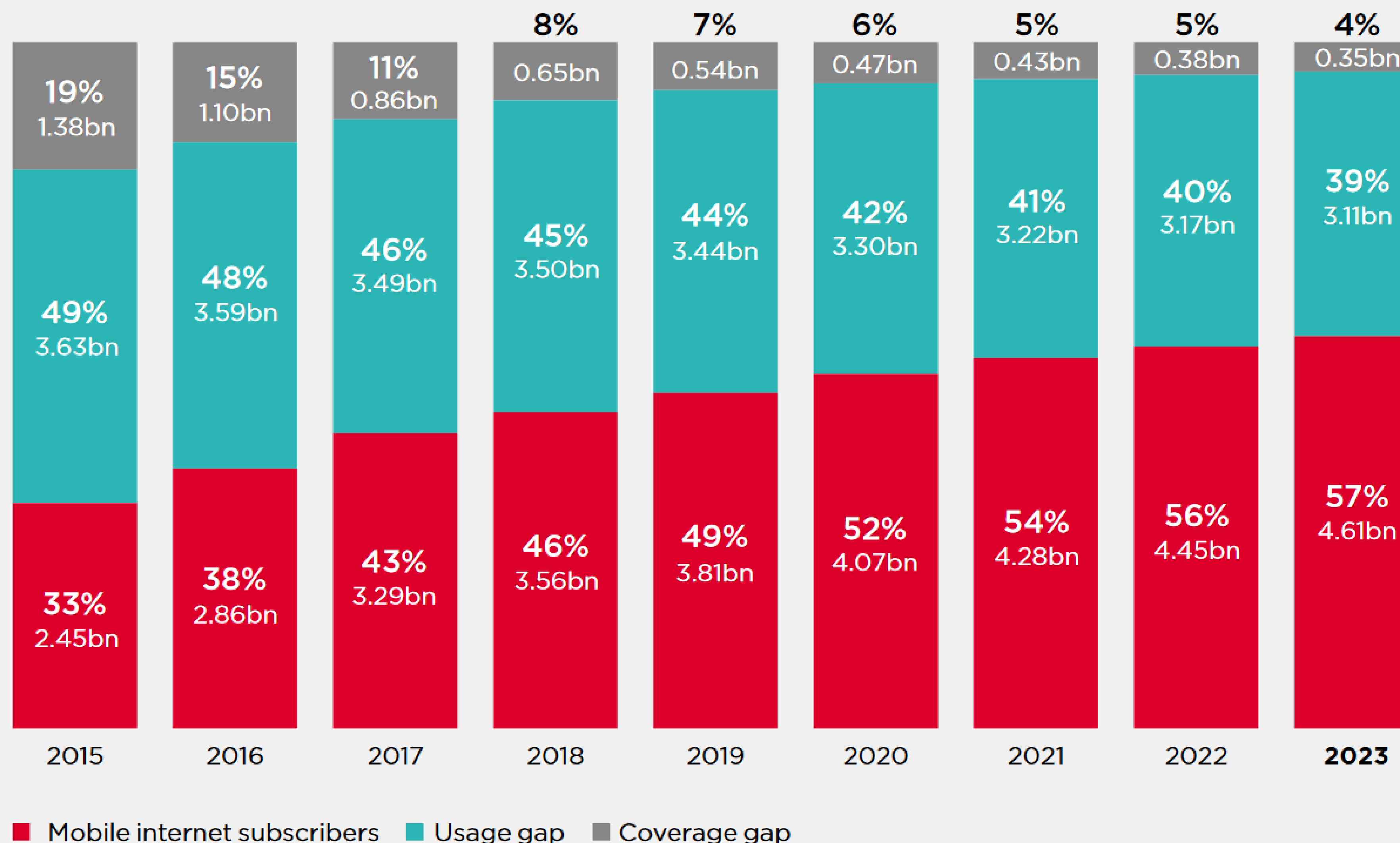


# CONNECTIVITY





# Global mobile internet connectivity



96% of the world's population are covered by mobile broadband

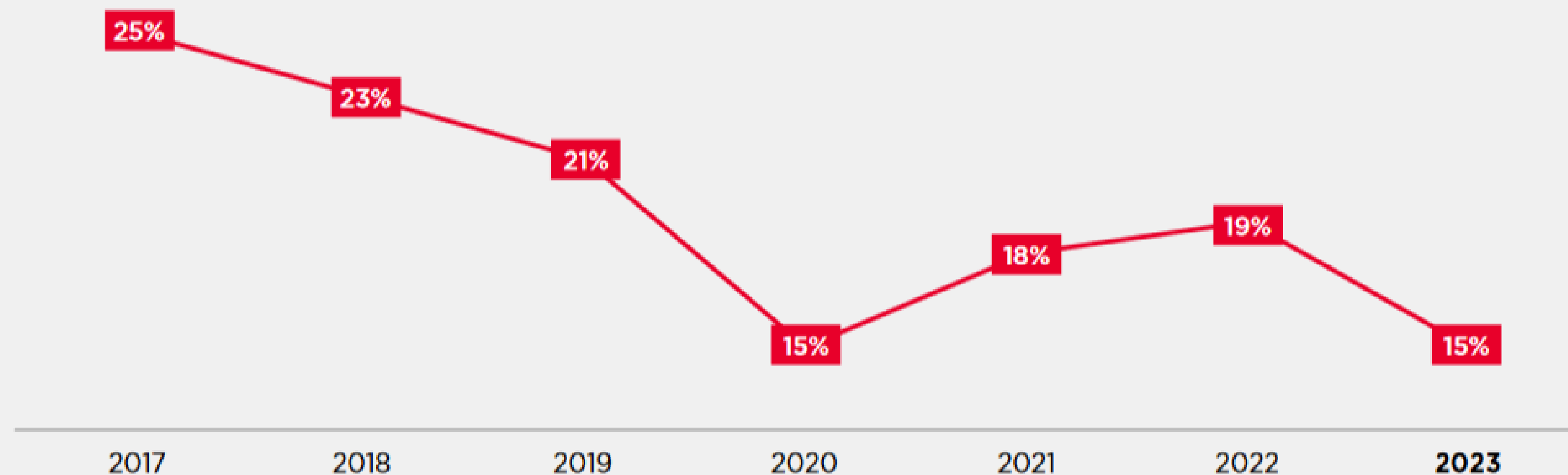
Source: GSMA, The State of Mobile Internet Connectivity, 2024



# GENDER GAP

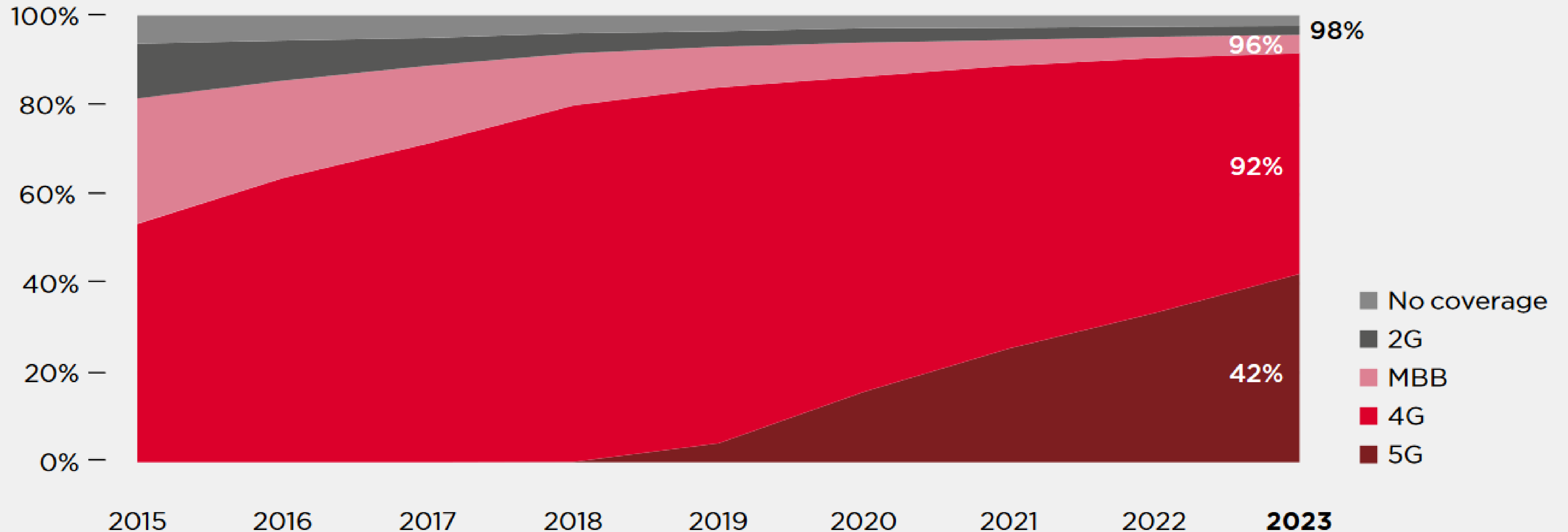
WOMEN are 15% less likely to use mobile internet than MEN

Across LMICs overall





# Global population coverage by technology

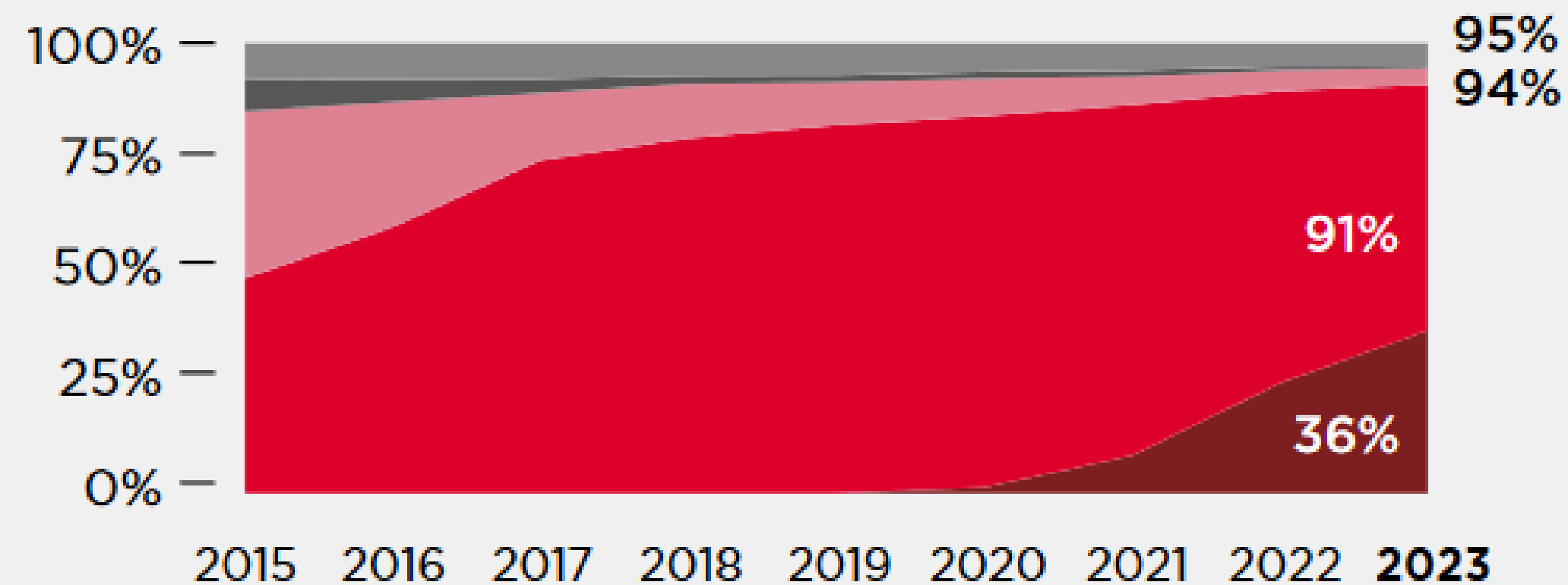


Source: GSMA, The State of Mobile Internet Connectivity, 2024

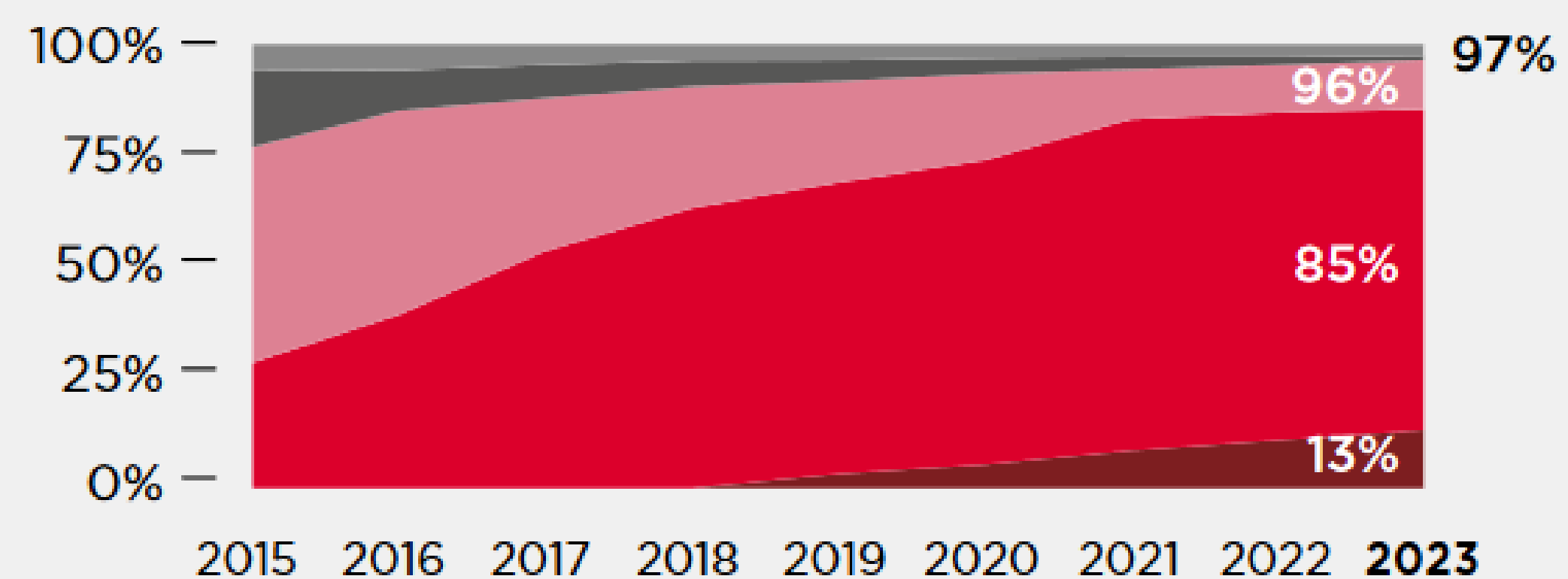


# Population coverage by technology and region

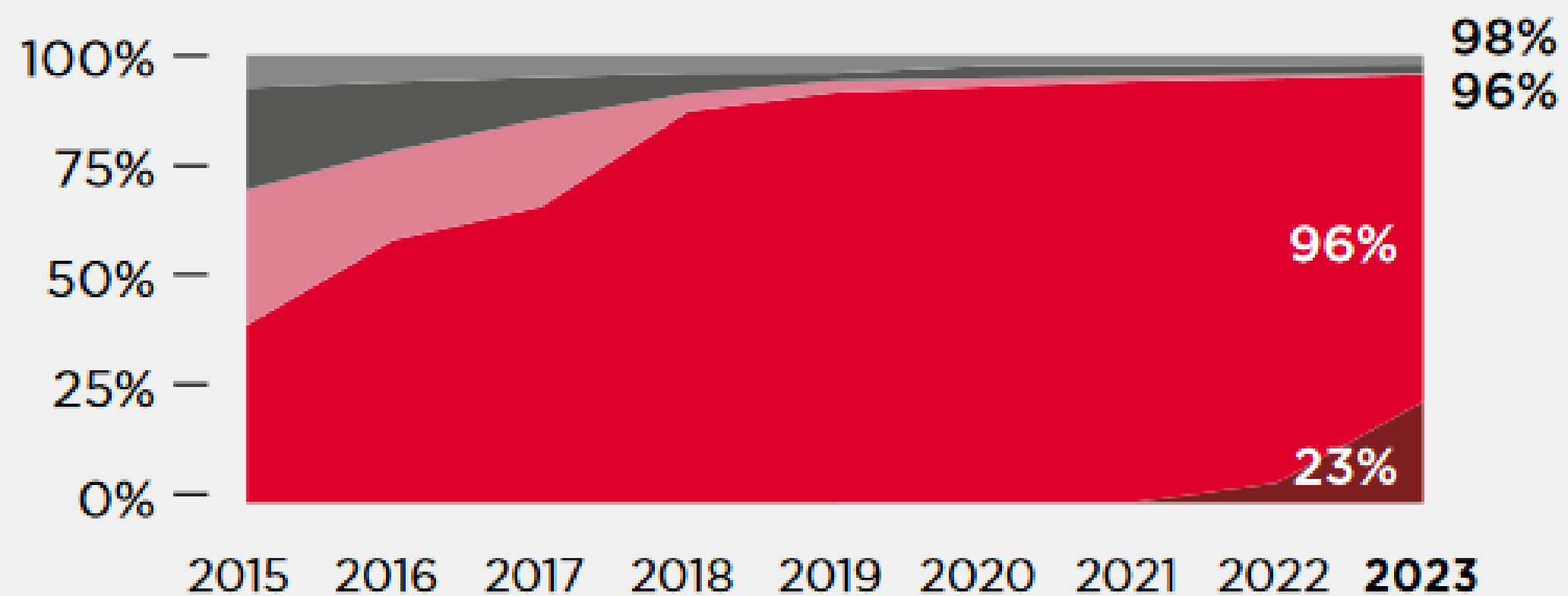
Latin America & Caribbean



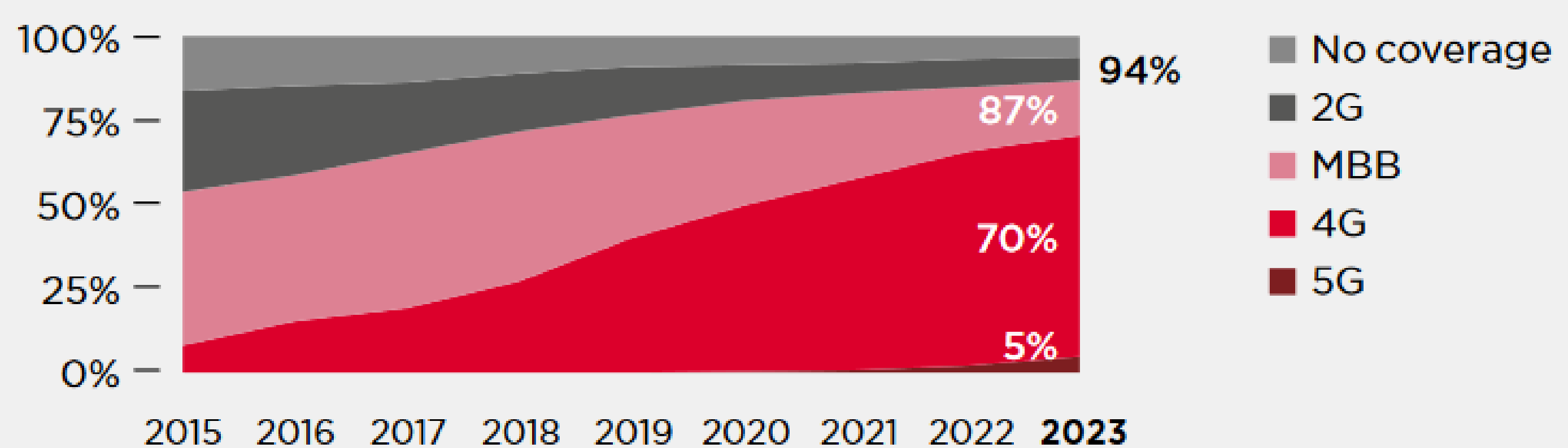
Middle East & North Africa



South Asia



Sub-Saharan Africa

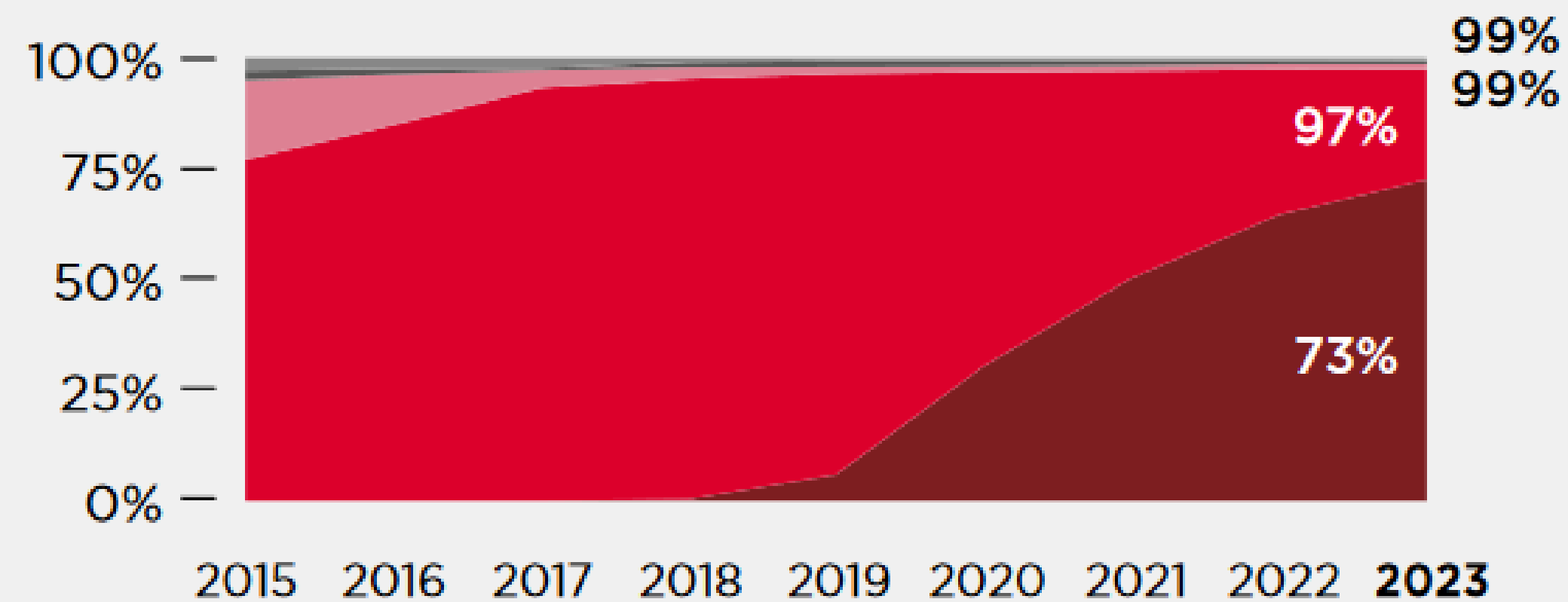


Source: GSMA, The State of Mobile Internet Connectivity, 2024

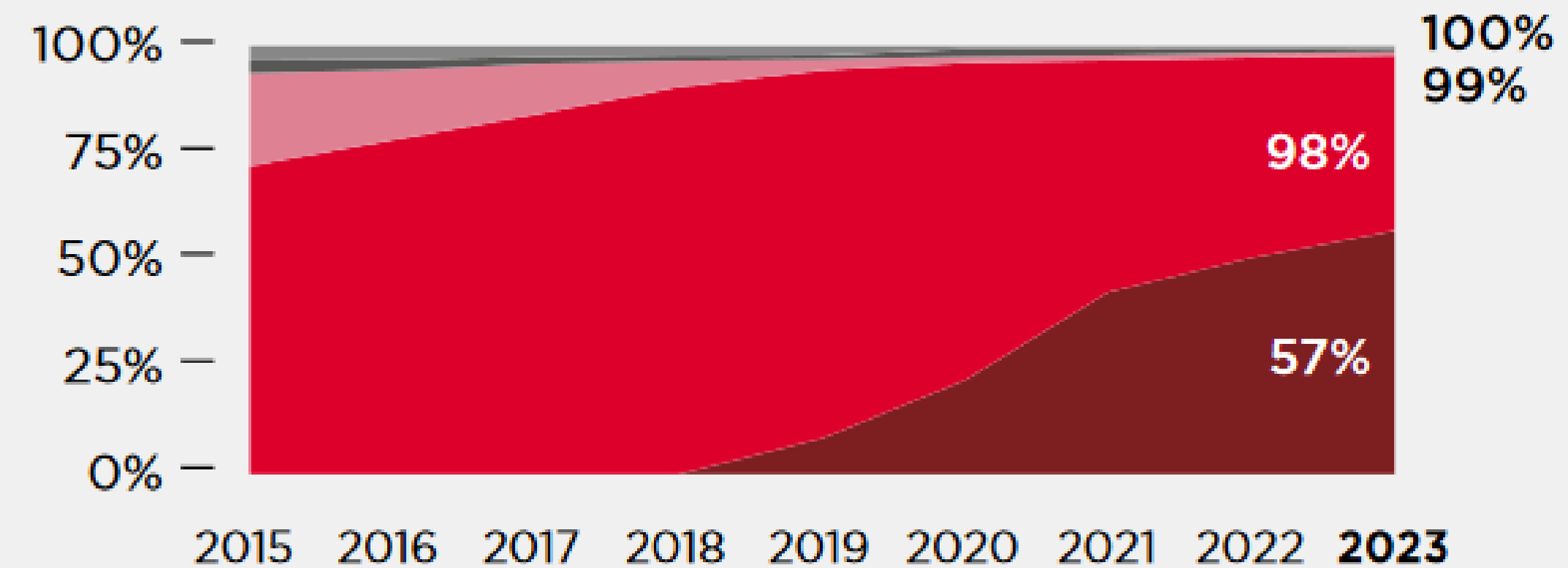


# Population coverage by technology and region

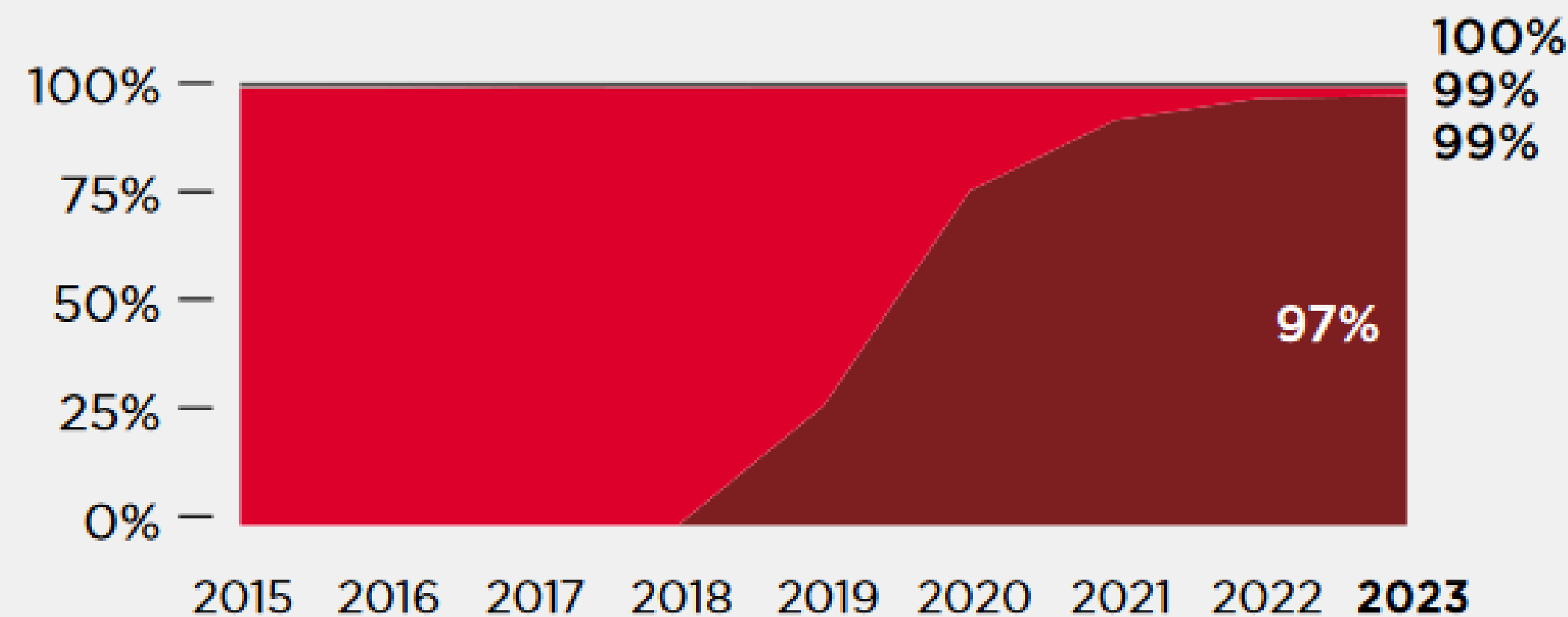
East Asia & Pacific



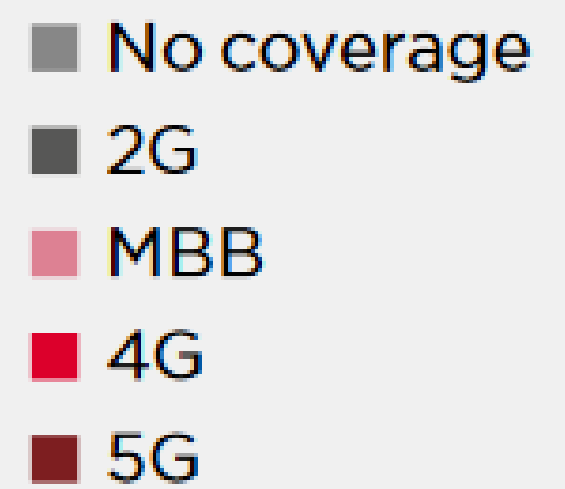
Europe & Central Asia



North America



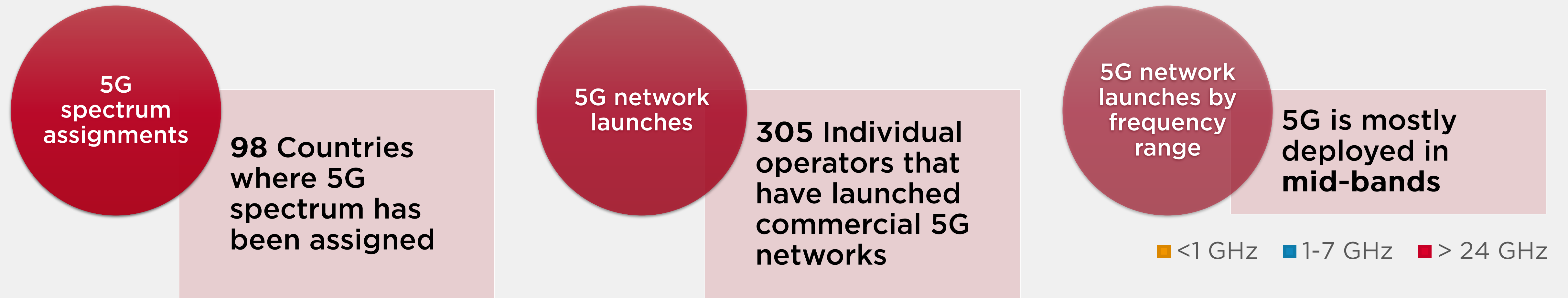
5G is the fastest growing mobile broadband technology to date



Source: GSMA, The State of Mobile Internet Connectivity, 2024

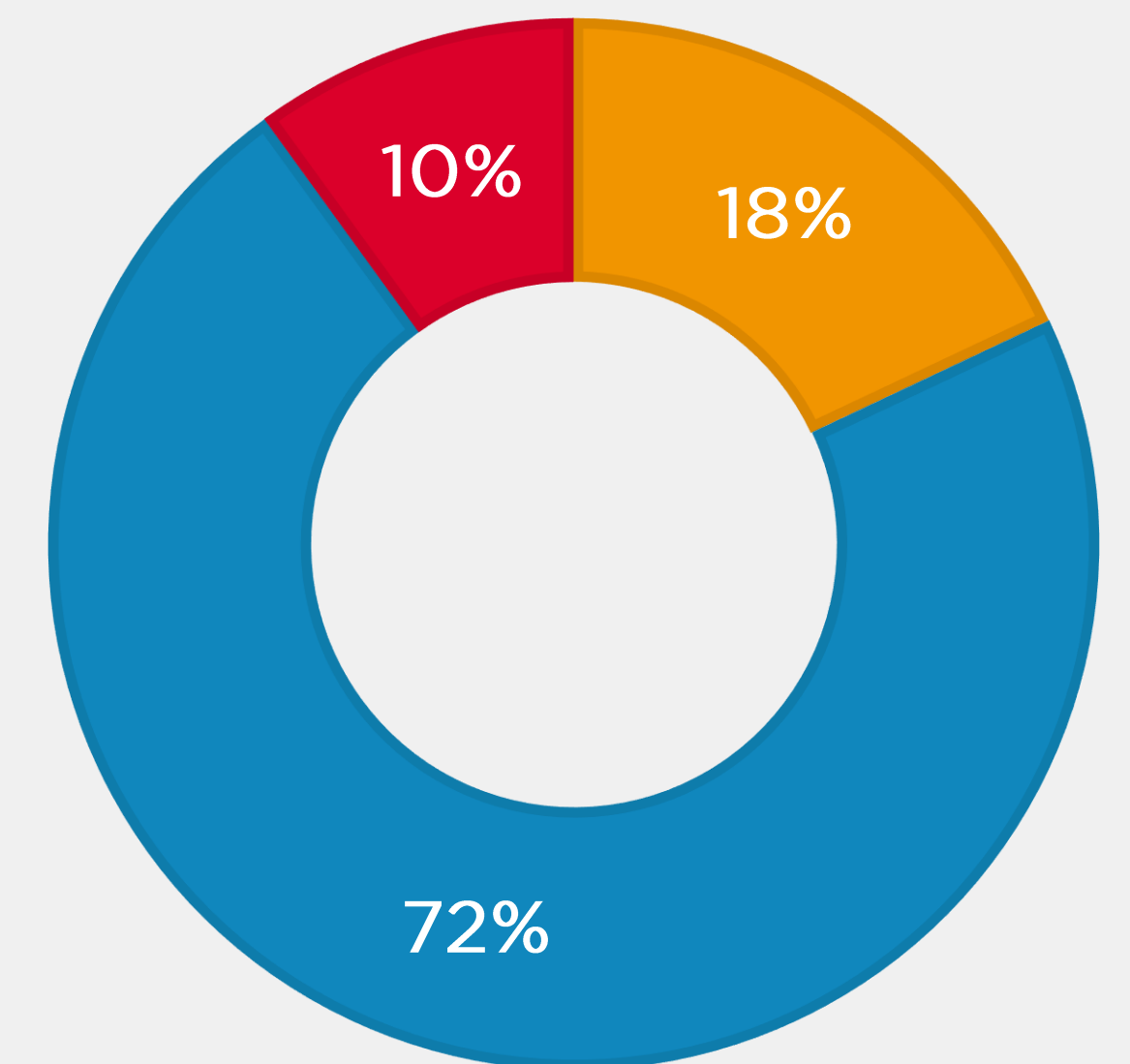


# 5G Spectrum state



Groundbreaking decisions at WRC-23 are shaping spectrum roadmaps

Source: GSMA Intelligence, Q2 2024



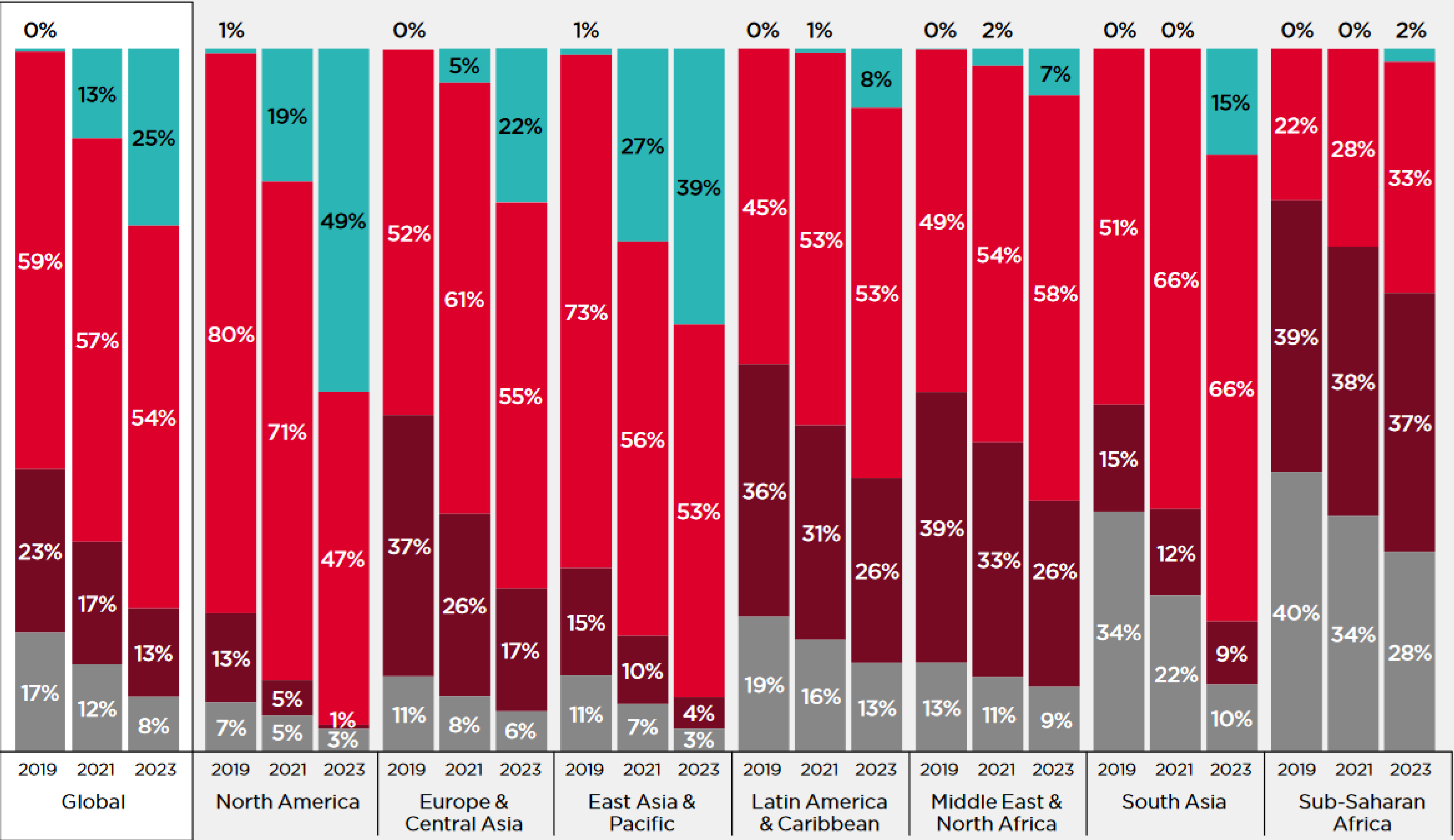




# DEVICES



# Distribution of devices by subscribers



Base: Total population, 197 countries  
Note: Totals may not add up to 100% due to rounding.  
Source: GSMA Intelligence

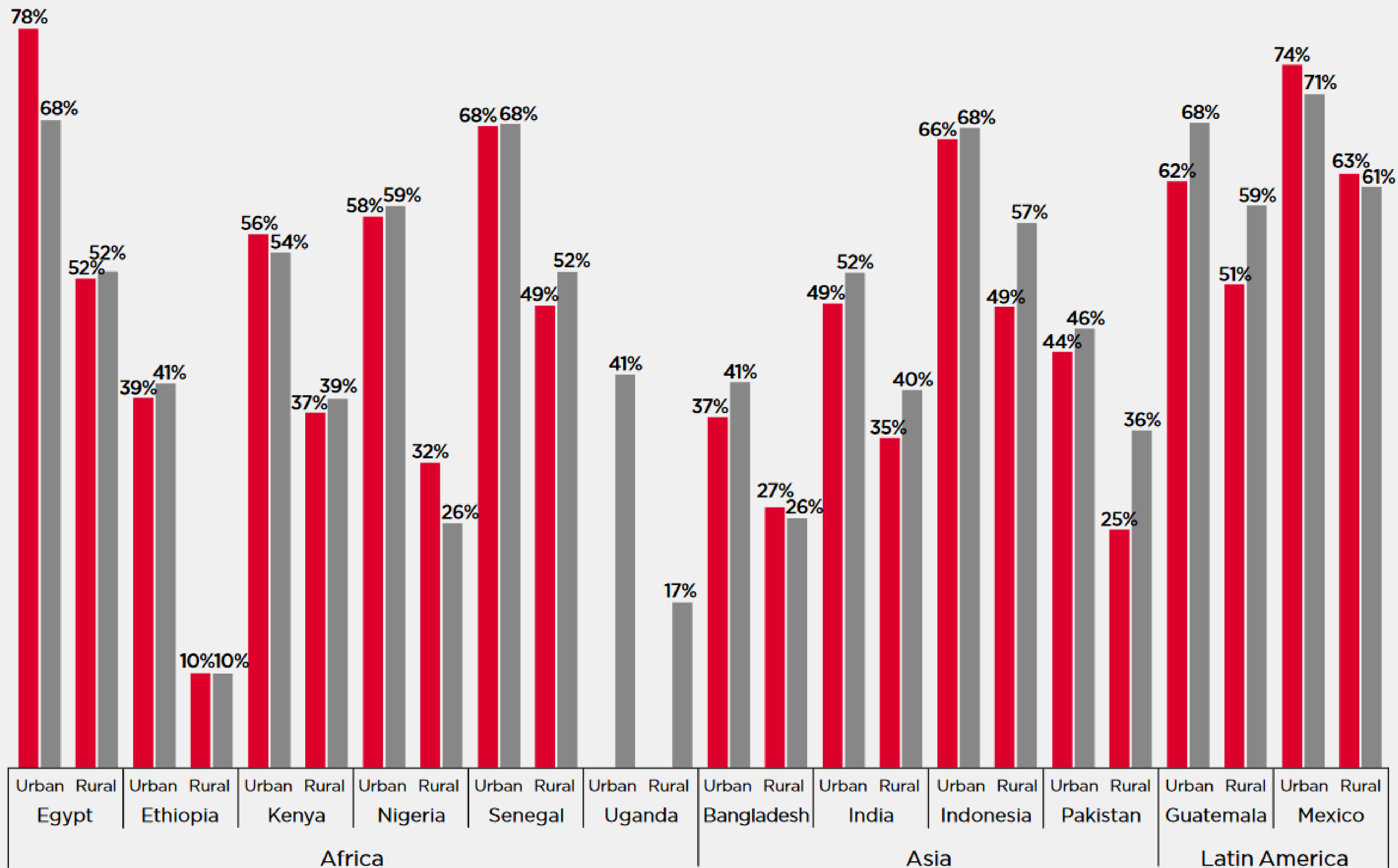
■ Feature phone ■ 3G smartphone ■ 4G smartphone ■ 5G smartphone



# Smartphone ownership, 2022-2023

2 bn people with mobile coverage do not own a smartphone

Source: GSMA Intelligence



■ 2022 ■ 2023

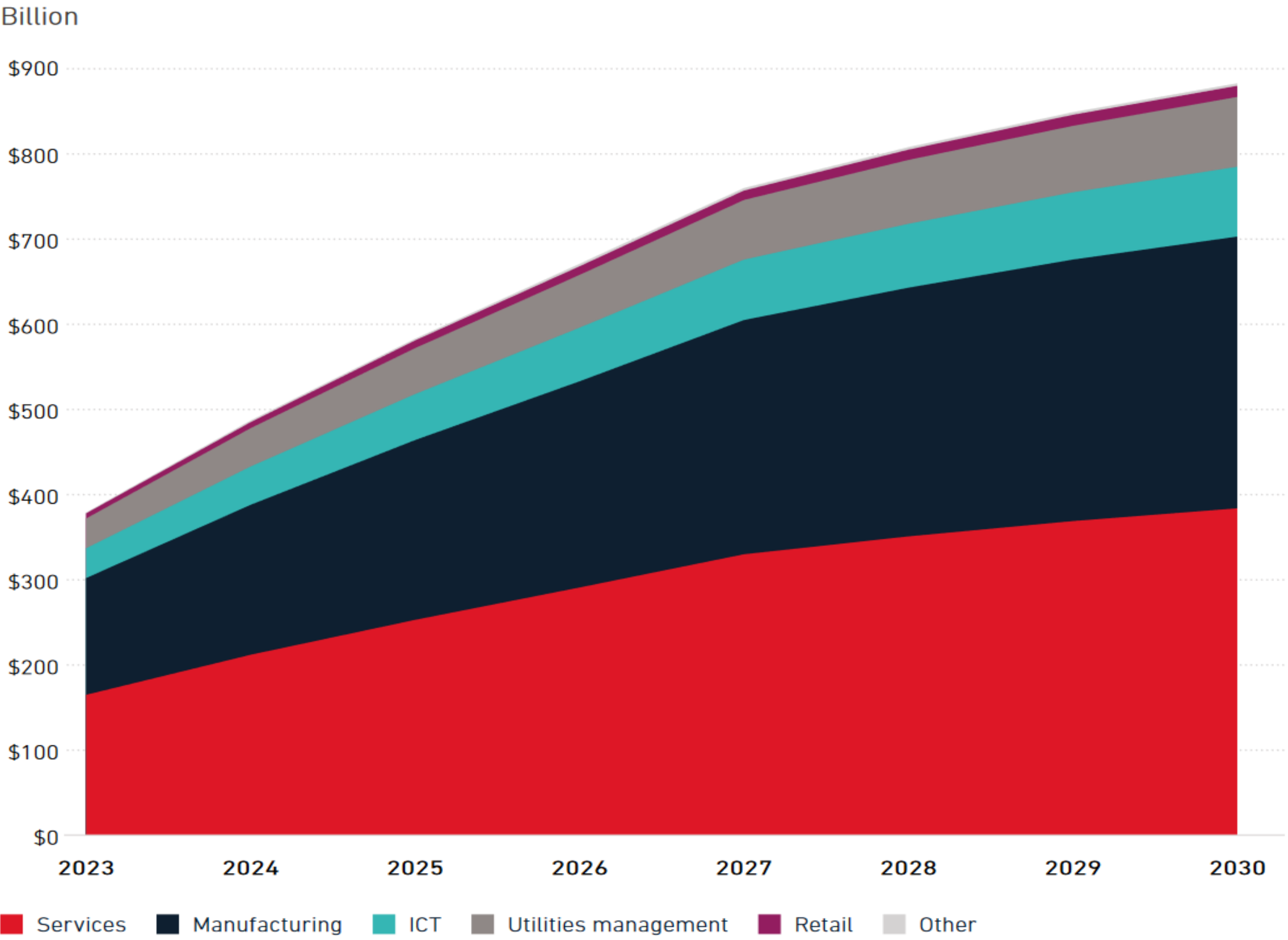




# USE CASES

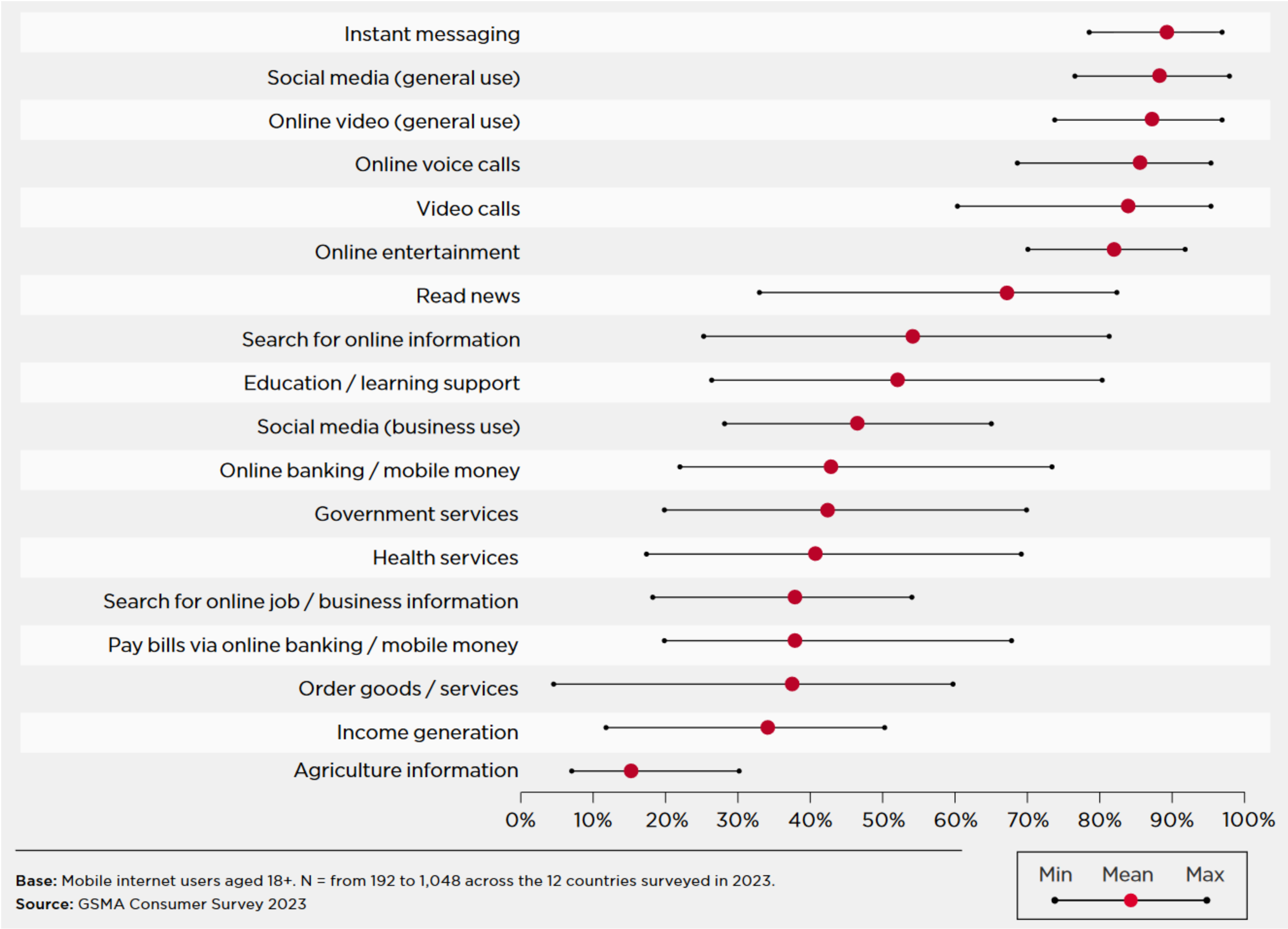


# Annual global 5G contribution by industry





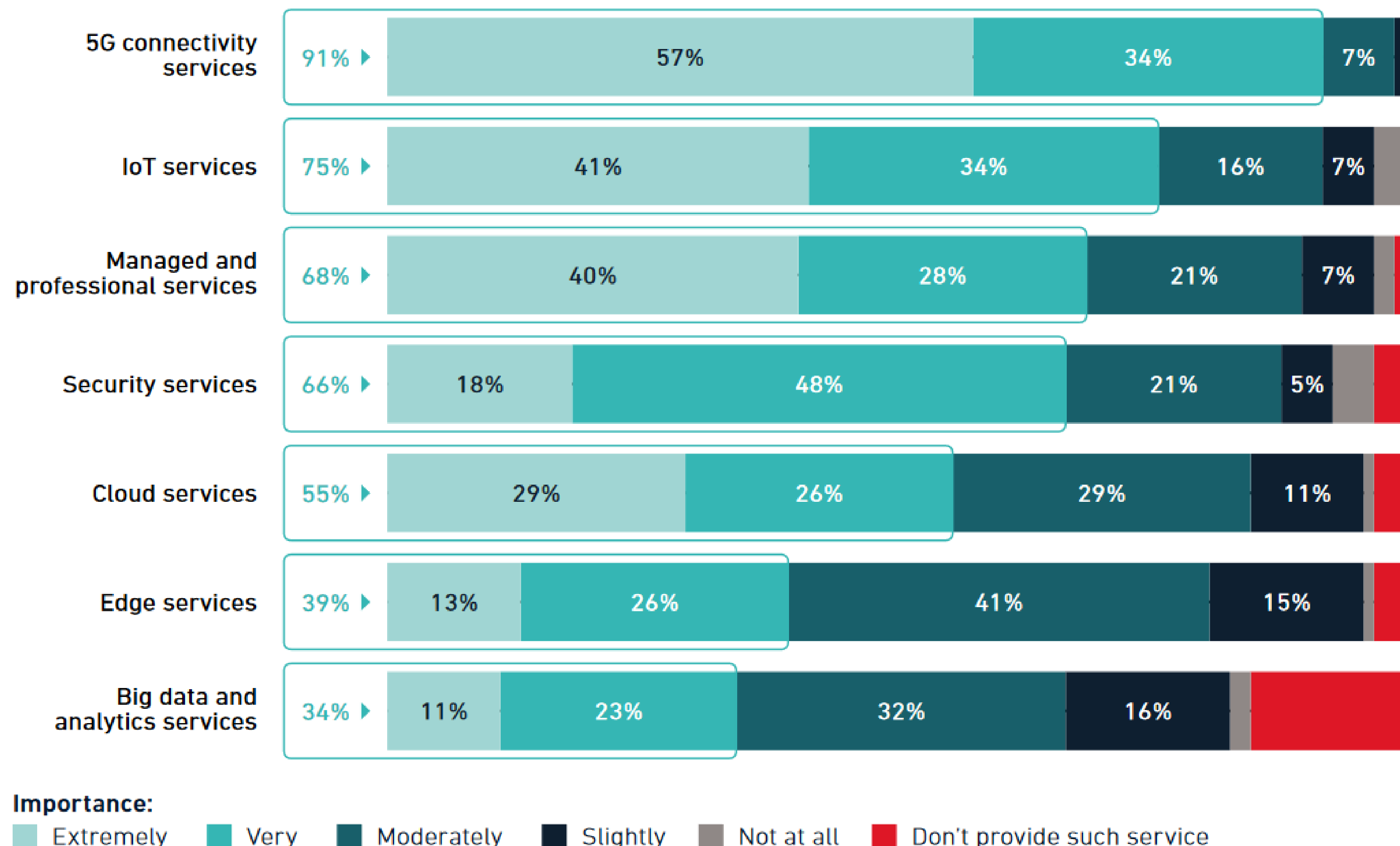
# Mobile user's activities





# Enterprise services priority rankings

Rank how important the following are to the success of your enterprise strategy (percentage of respondents)

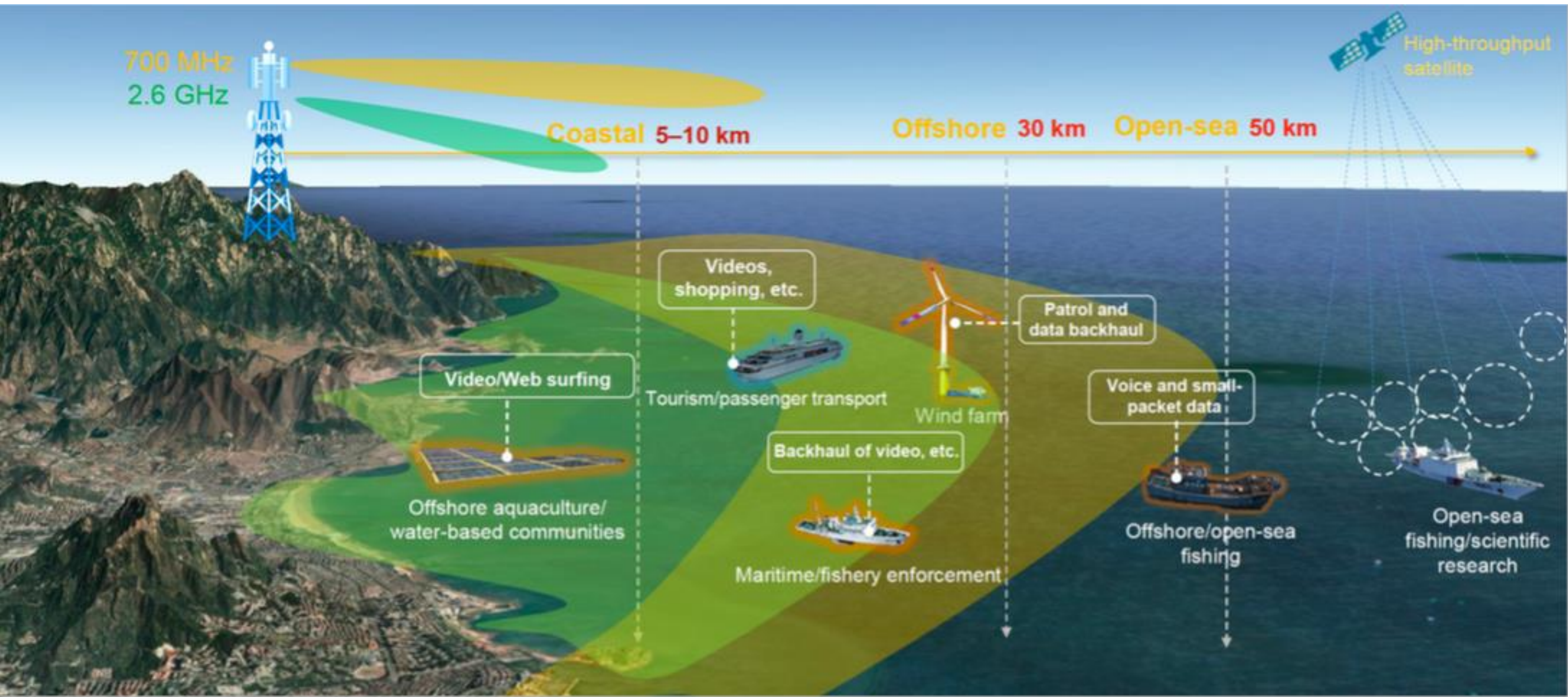


Source: GSMA Intelligence, Enterprise Opportunity Survey 2022



# 5G Sea Network Case

Ningde, Fujian Province, China Mobile and Huawei



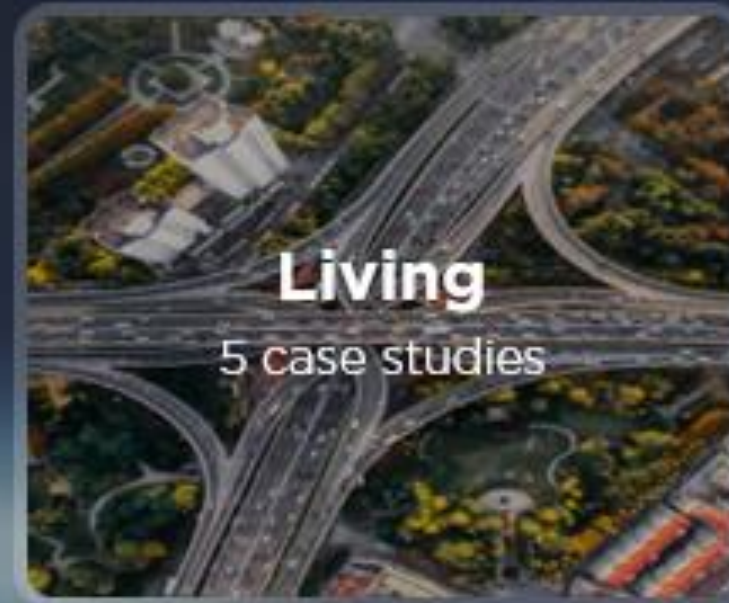




# 5G Transformation Hub

The world's most innovative 5G solutions

## Explore the case studies



[See all case studies](#)



Thank you!

**GSMA**<sup>TM</sup>