

Mobile highlights for the Caribbean

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CTU - Spectrum Management Taskforce

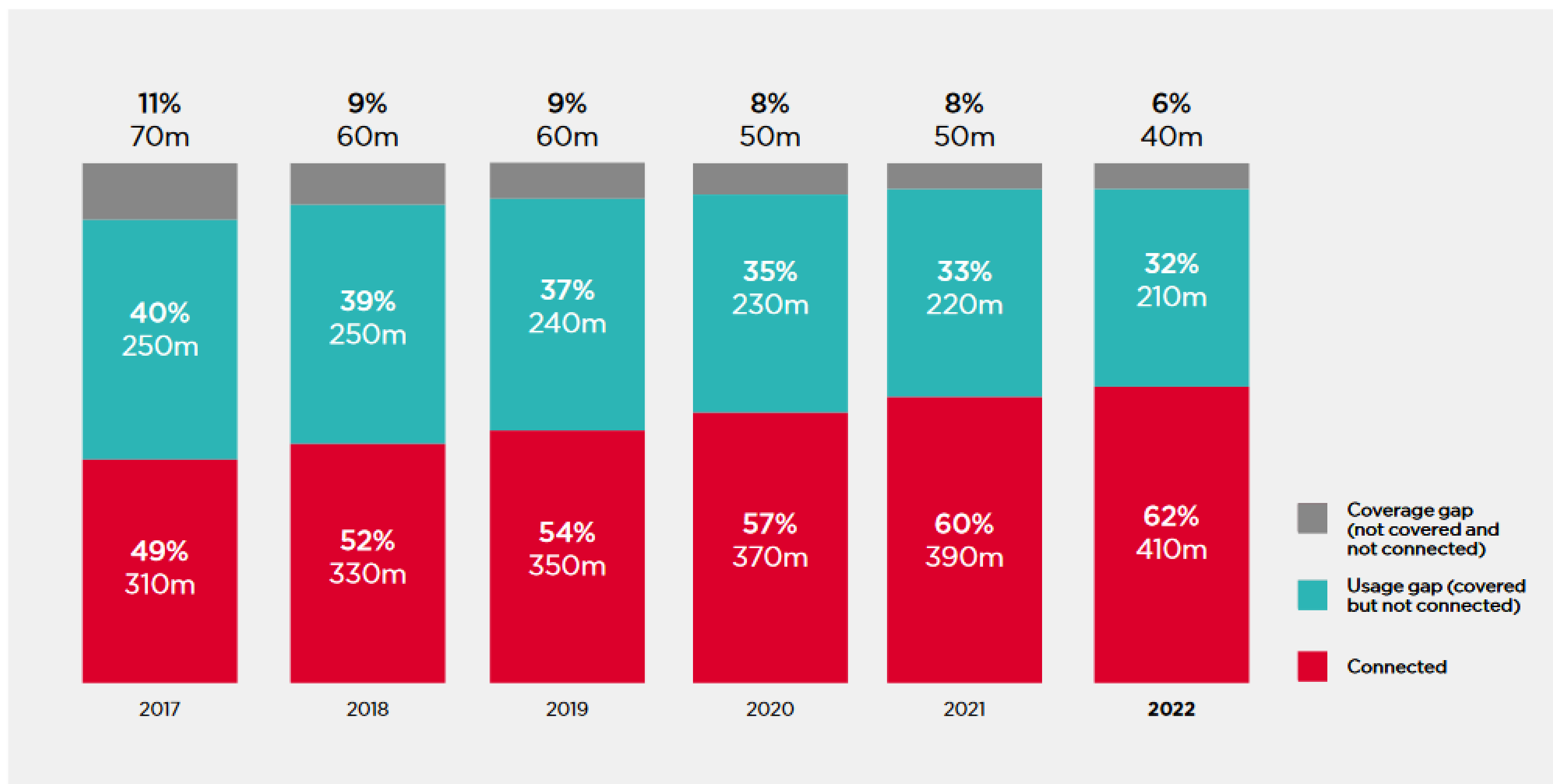
May 2024

State of Mobile Internet Connectivity in Latin America

Mobile internet connectivity in Latin America & the Caribbean

➔ More than 200 million people are still not using mobile internet despite living within mobile broadband coverage.

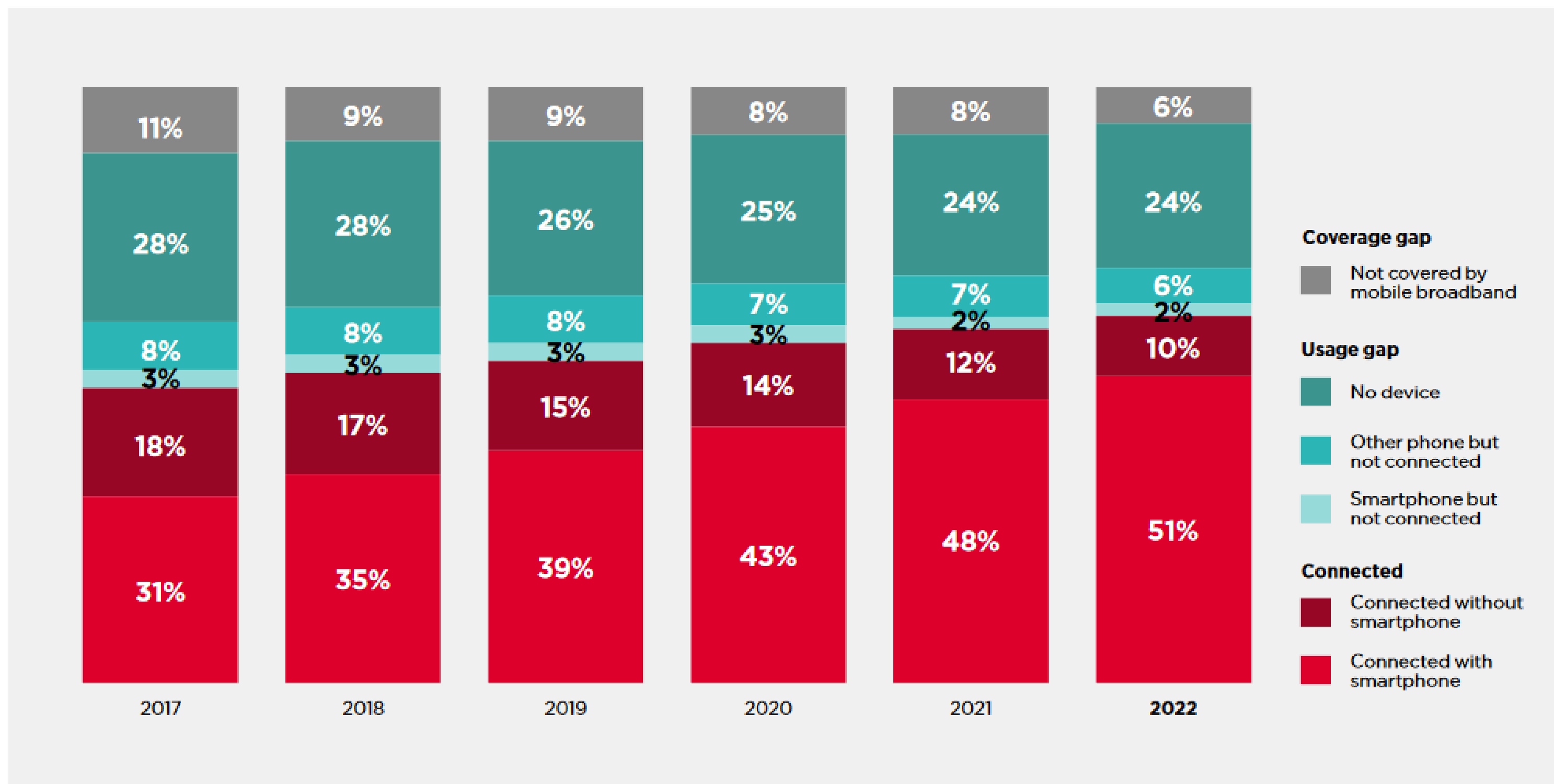
➔ The coverage gap has reduced by 2% in 2022 to 6% of the population. This reduction was mostly driven by Brazil, which now accounts for 40% of the uncovered population in Latin America.



Source: GSMA Intelligence. 'Usage gap' refers to populations that live within the footprint of a mobile broadband network but who are not using mobile internet. 'Coverage gap' refers to populations that do not live within the footprint of a mobile broadband network (3G or above). NB: totals may not add up to 100% due to rounding.

Mobile internet connectivity breakdown in Latin America & the Caribbean

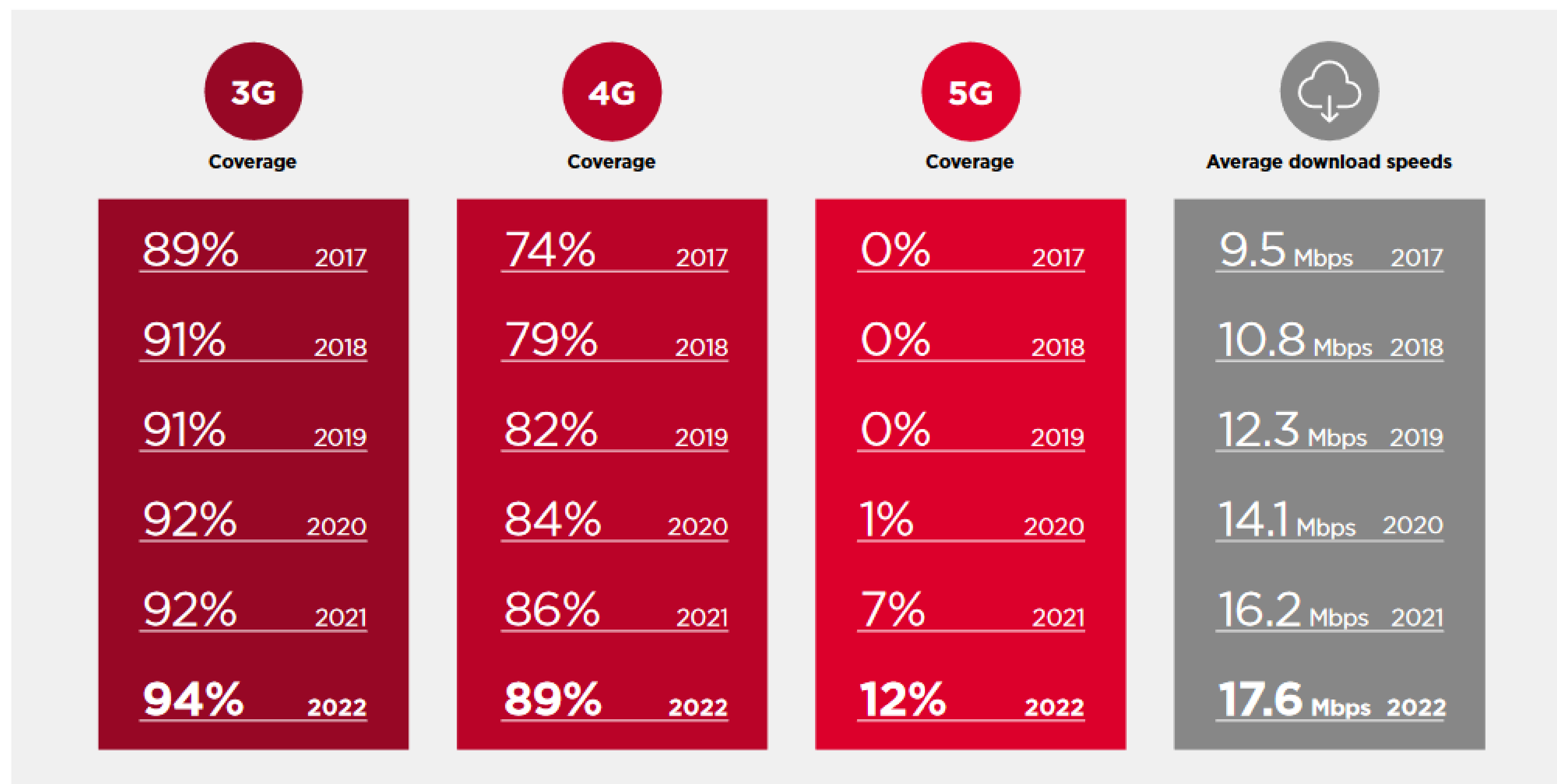
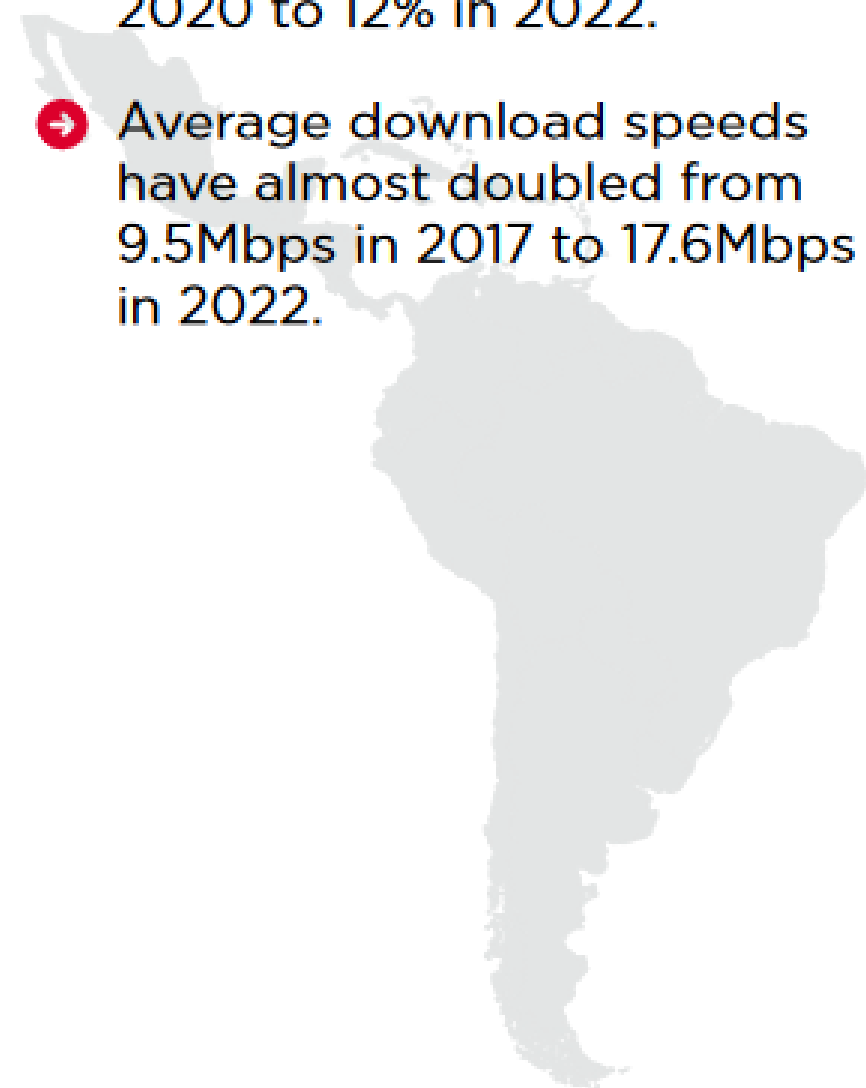
- 51% of the Latin American & the Caribbean population use mobile internet on a smartphone.
- Around one-in-six mobile internet users are not smartphone owners.
- Almost a quarter of people in Latin America & the Caribbean live within a mobile broadband network but do not own a phone.



Source: GSMA Intelligence. 'Usage gap' refers to populations that live within the footprint of a mobile broadband network but who are not using mobile internet. 'Coverage gap' refers to populations that do not live within the footprint of a mobile broadband network (3G or above). NB: totals may not add up to 100% due to rounding.

Latin America & the Caribbean coverage and download speeds

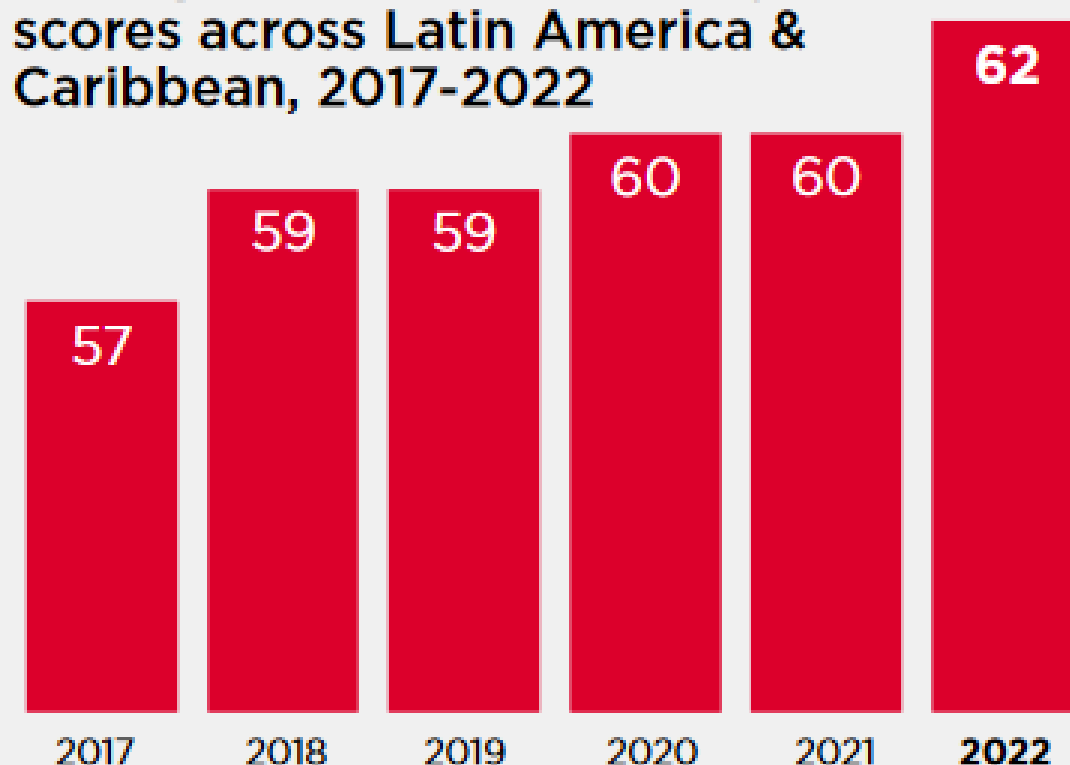
- ➔ Nearly all the region is covered by 3G and 4G networks (94% and 89% respectively).
- ➔ 5G coverage has expanded significantly over the last two years, increasing from 1% in 2020 to 12% in 2022.
- ➔ Average download speeds have almost doubled from 9.5Mbps in 2017 to 17.6Mbps in 2022.



Latin America & Caribbean Mobile Connectivity Index scores

The **Mobile Connectivity Index (MCI)** measures the performance of 170 countries against the four key enablers of mobile internet adoption: infrastructure; affordability; consumer readiness; and content and services. The index is built up through 32 indicators that are aggregated to give a score for four enablers. Scores fall within a range of 0-100.

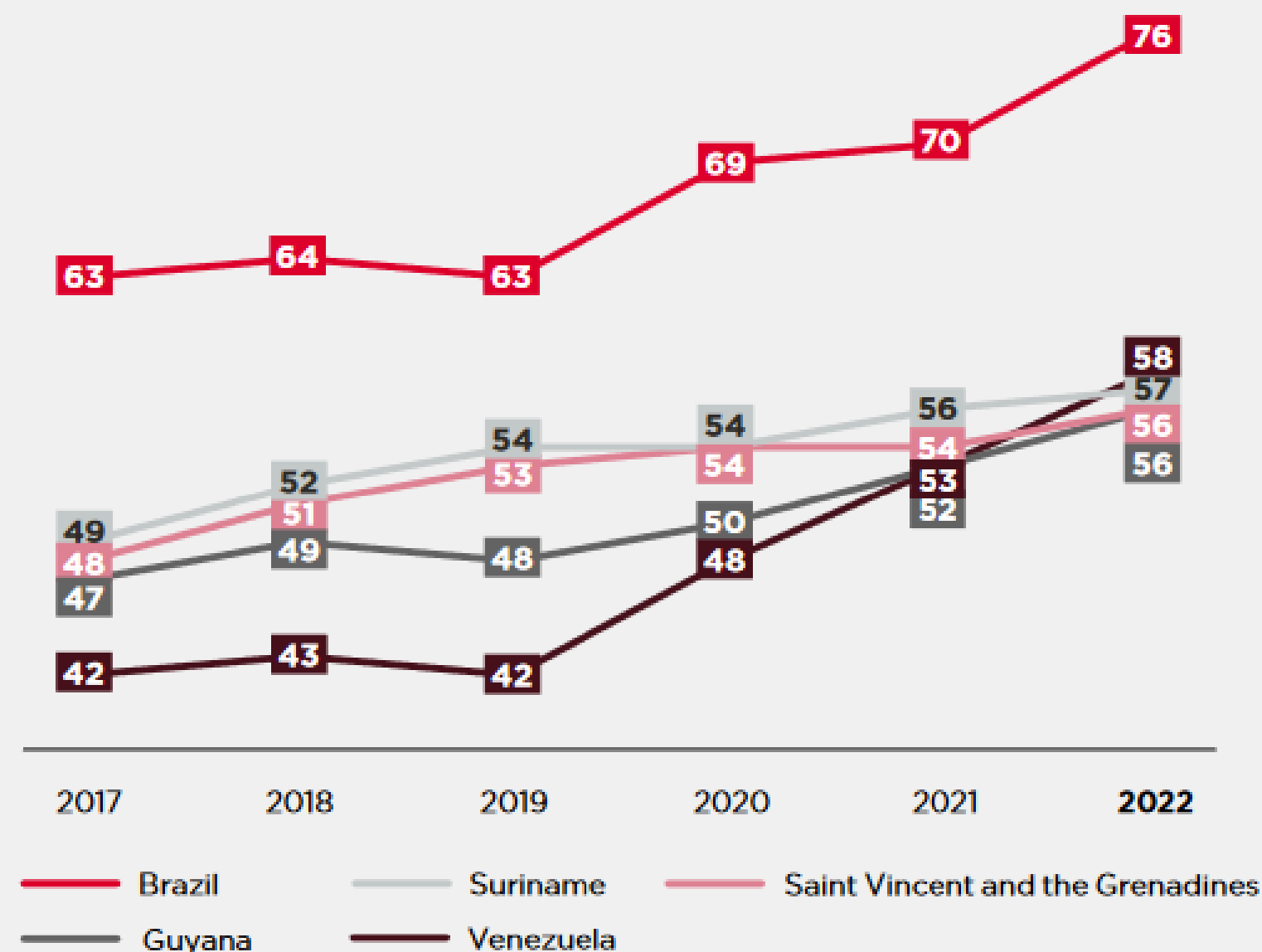
Average Mobile Connectivity Index scores across Latin America & Caribbean, 2017-2022



Countries at the top of the MCI in Latin America & Caribbean in 2022

1	Uruguay
2	Brazil
3	Chile
4	Mexico
5	Panama

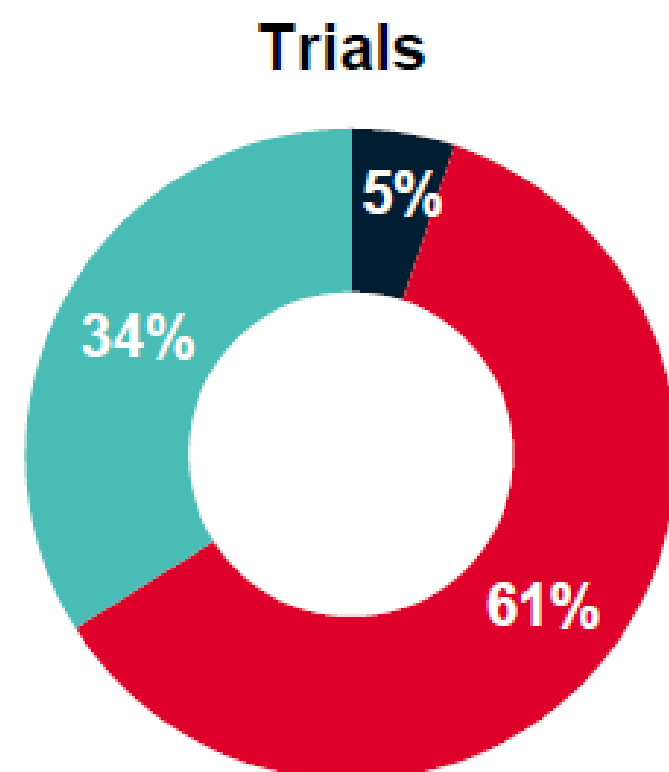
MCI scores of most improved countries in Latin America & Caribbean between 2017 and 2022



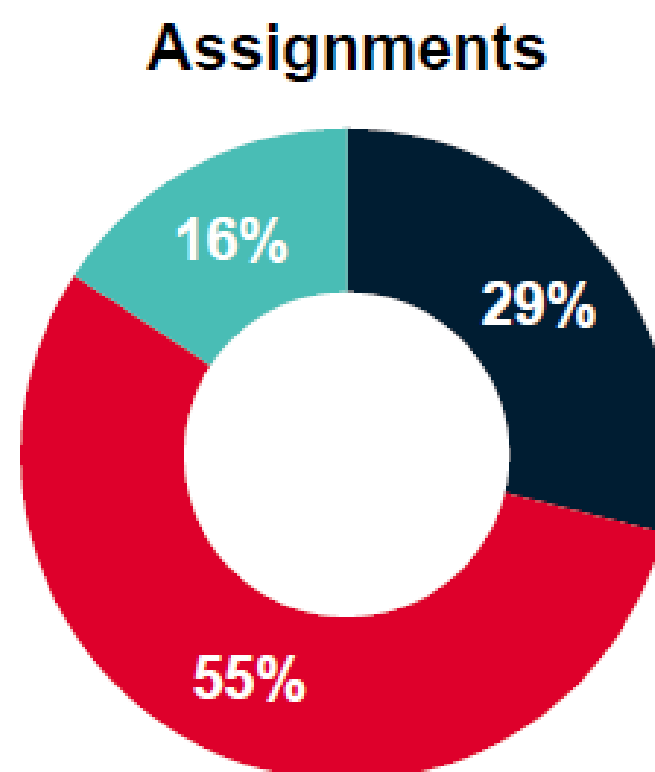
<https://www.mobileconnectivityindex.com/>

Spectrum insights and trends for the Caribbean

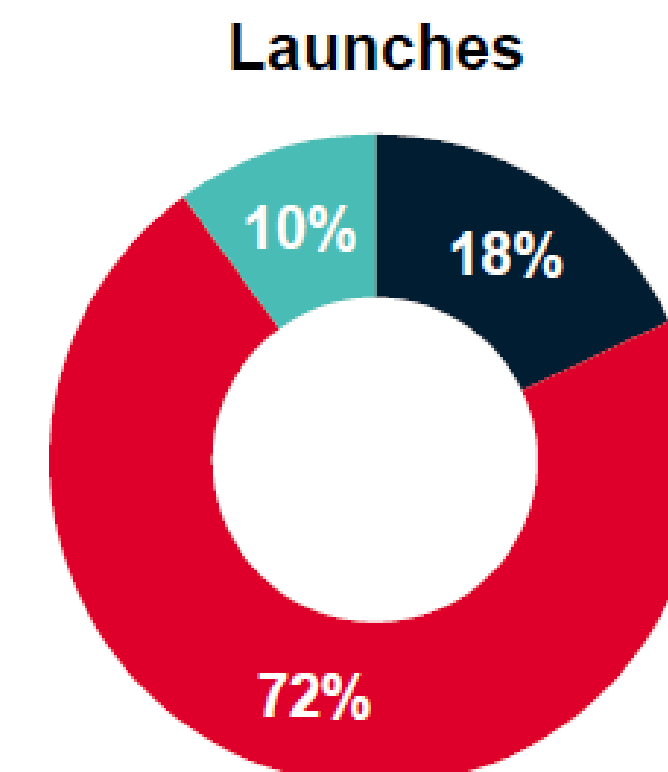
5G Spectrum worldwide



Frequency information available for
54% of trials



■ <1 GHz ■ 1-7 GHz ■ >24 GHz



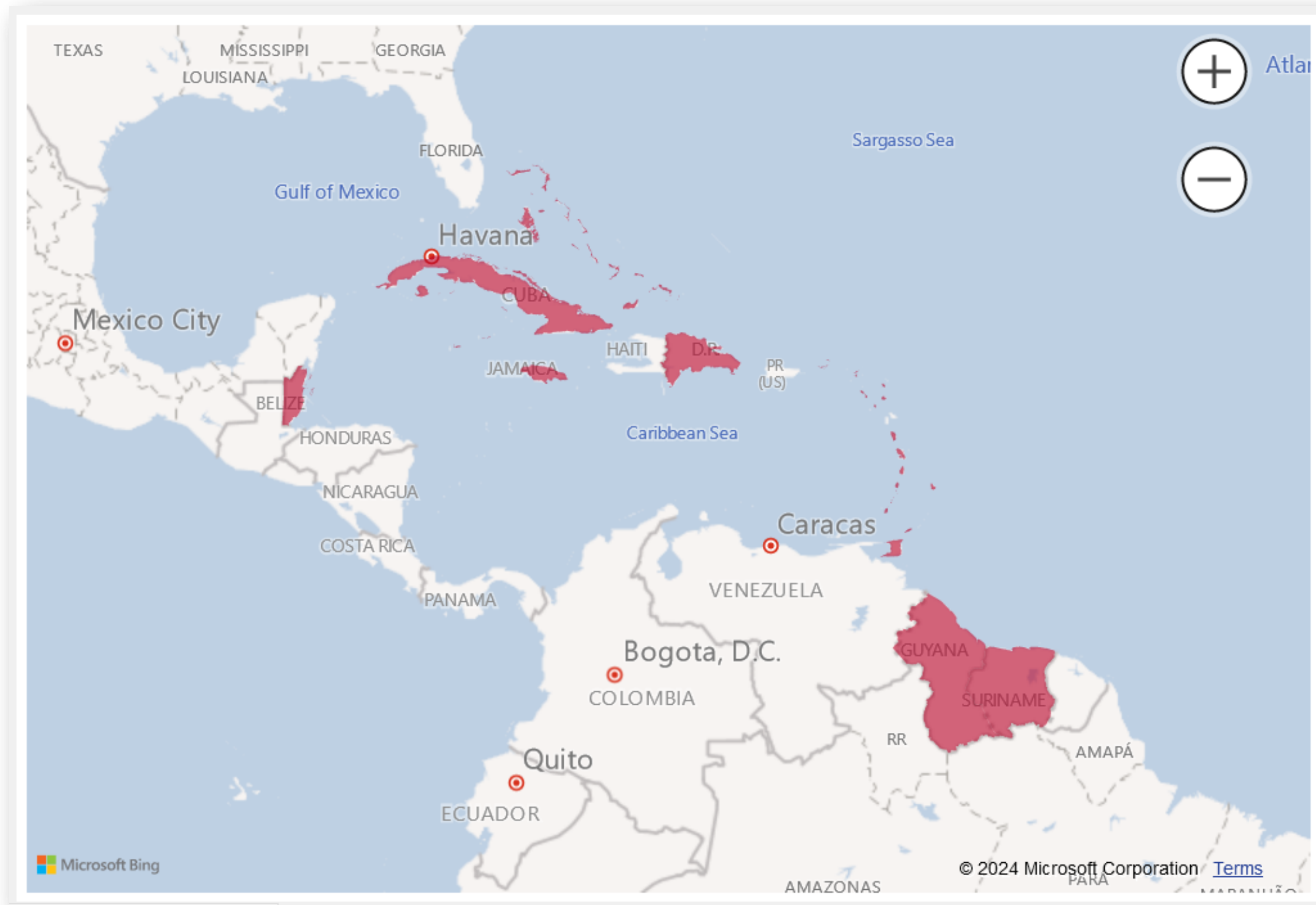
Frequency information available for
76% of launches

Note: Figures refer to trials, assignments and launches, not individual operators.
A number of operators have trialled or launched their 5G networks on more than one frequency.

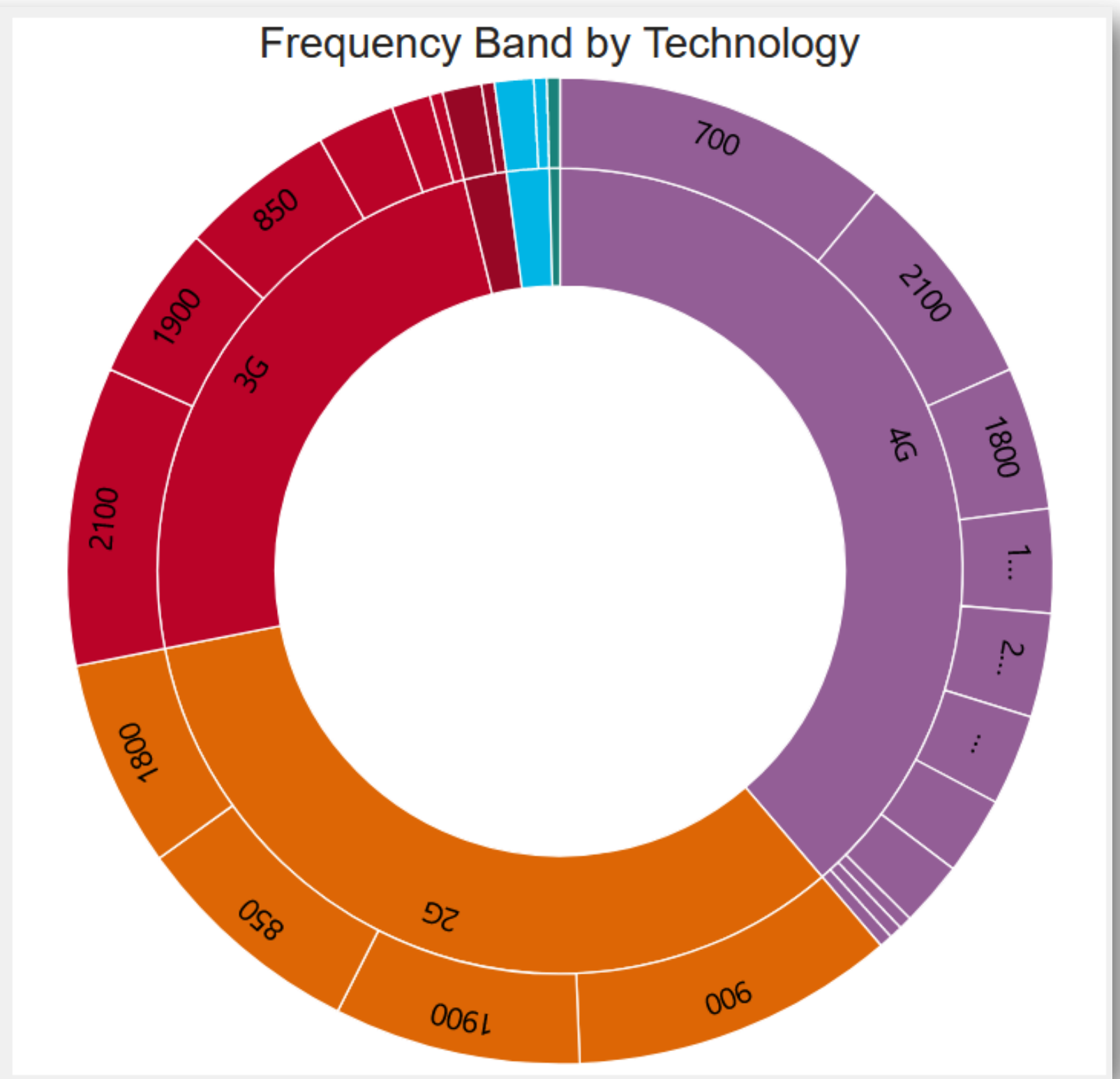
Data correct to 31 December 2023
Source: GSMA Intelligence

GSMA
Intelligence

Spectrum by technology in CTU Members



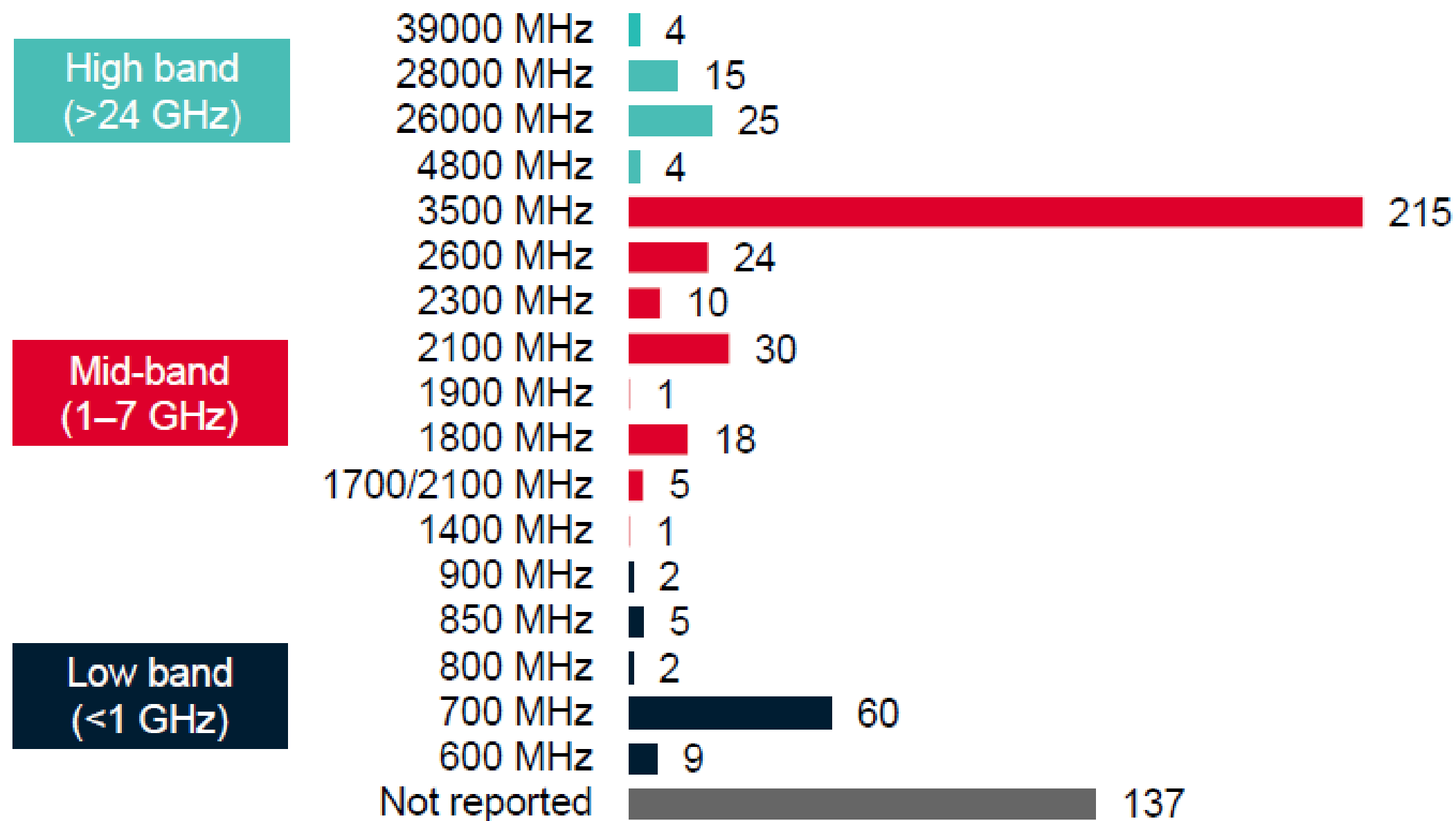
Source: GSMA Intelligence



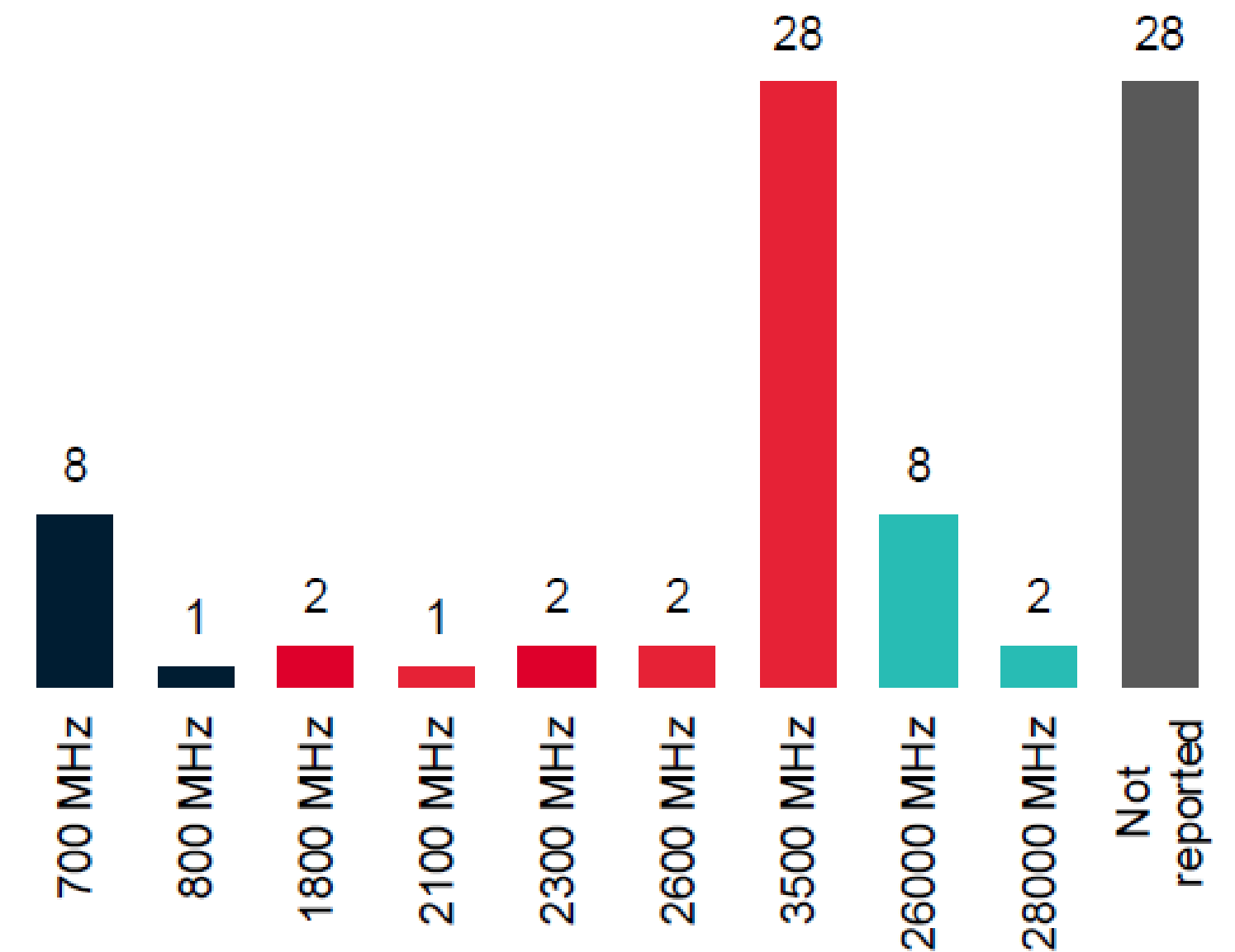
Dominic Republic (Not CTU member) has deployed 5G in the Caribbean

5G Spectrum worldwide

5G network launches by spectrum frequency (to Q4 2023)



5G network launches in 2023



Note: Figures refer to launches, not individual operators. A range of operators have launched their 5G networks on more than one frequency. If an operator has launched both mobile and fixed wireless 5G networks, then it is counted twice. 3.5 GHz band = 3.3–3.8 GHz range. 2600 MHz band = 2500–2600 MHz range

Data correct to 31 December 2023
Source: GSMA Intelligence

GSMA
Intelligence

WRC-23 Results

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**

FNs Region 2

MOD 5.308A
Countries added to IMT identification in 614-698 MHz

MOD 5.429D
The use of the MS in 3 300-3 400 MHz is identified for IMT

MOD 5.434
3 600-3 700 MHz is identified for IMT

ADD 5.435B
In some countries of R2, 3 700-3 800 MHz is identified for IMT

ADD 5.457F
In Brazil and Mexico, 6 425-7 125 MHz is identified for IMT

ADD 5.480A
In some countries of R2, 10-10.5 GHz is identified for IMT

WRC-23 decisions adoption in the Region

Considering:

- That the frequency bands, or portions thereof, 450-470 MHz, 470-960 MHz, 1 427-1 518 MHz, 1 710-2 200 MHz, 2 300-2 400 MHz, 2 500-2 690 MHz, 3 300-3 800 MHz, 4 800-4 990 MHz, 6 425-7 125 MHz, 10-10.5 GHz, 24.25-27.5 GHz, 37-43.5 GHz, 45.5-47 GHz, 47.2-48.2 GHz, and 66-71 GHz are identified for use by administrations wishing to implement IMT in accordance with the provisions of the ITU Radio Regulations*;

*Compiles frequency bands of previous recommendations

Frequency Arrangements for Implementation of the Terrestrial Component of International Mobile Telecommunications (IMT)

CITEL, 43 PCCII Meeting
April 15 to 19, 2024
Montevideo, Uruguay

**PCC.II/REC. 67
(XLIII-24)**

WRC-23 decisions adoption in the Region

Recommends:

- That CITELE Member States that plan to implement IMT consider the following*:

g: 3 300-3 800 MHz (FNs 5.429D, 5.431B, 5.434, 5.435B)

MHz	3 300				3 800
F3			TDD		
	3 300	3 400		3 600	3 700 3 800

*New frequency arrangements

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WRC-23 decisions adoption in the Region

Recommends:

- That CITELE Member States that plan to implement IMT consider the following*:

h: 4 800-4 990 MHz (FNs 5.441A, 5.441B))

MHz	4 800	4 990
H1	TDD	
	4 800	4 990

*New frequency arrangements

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WRC-23 decisions adoption in the Region

Recommends:

- That CITEEL Member States that plan to implement IMT consider the following*:

i: 6 425-7 125 MHz (FN 5.457F):

MHz	6 425	7 125
N1		
		TDD
	6 425	7 125

*New frequency arrangements

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WRC-23 decisions adoption in the Region

Recommends:

- That CITELE Member States that plan to implement IMT consider the following*:

j: 10-10.5 GHz (FN 5.480A):

GHz	10	10.5
01		
	TDD	
	10	10.5

*New frequency arrangements

Frequency Arrangements for Implementation of the Terrestrial Component of International Mobile Telecommunications (IMT)

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The road to WRC-27

WRC-27 Agenda

Region 1	Region 2	Region 3
4 400-4 800 MHz		4 400-4 800 MHz
7 125-7 250 MHz 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

AI 1.7



Direct to Device

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

AI 1.13



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

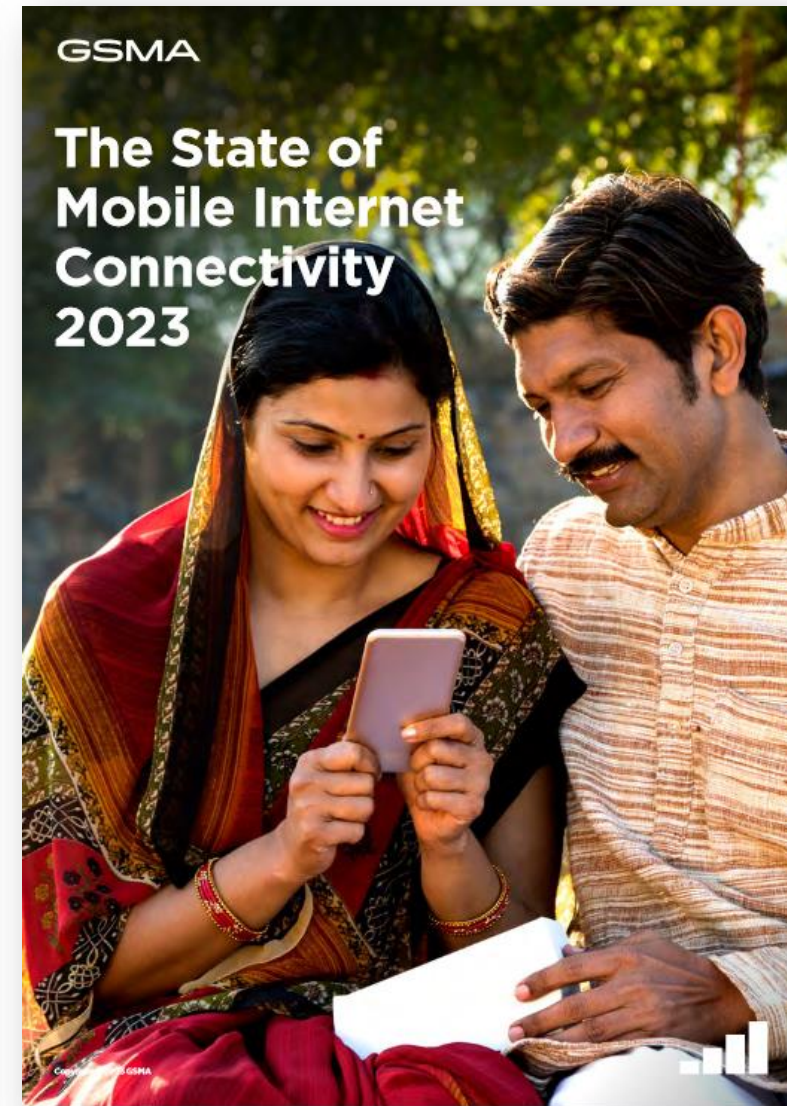
AI 1.12

AI 1.14

Annex - Resources



[Spectrum Policy Trends 2024](#)



[The State of Mobile Internet Connectivity 2023](#)



[Spectrum management in Latin America](#)

THANK YOU