

6 GHz: 5,925 MHz a 7,125 MHz

Democratizando o acesso à internet

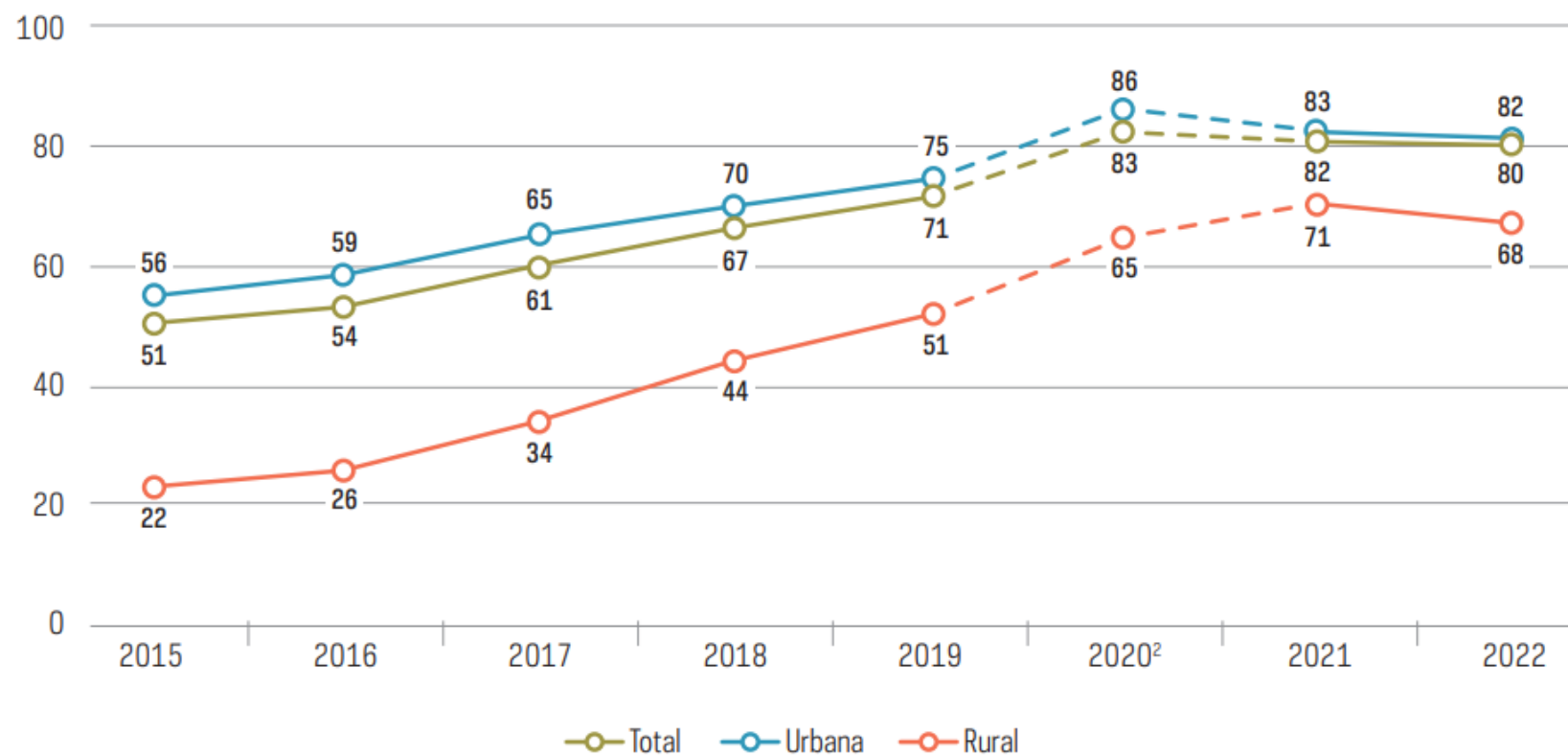


Banda larga fixa no Brasil

Modelo único e referência internacional

DOMICÍLIOS COM ACESSO À INTERNET, POR ÁREA (2015-2022)

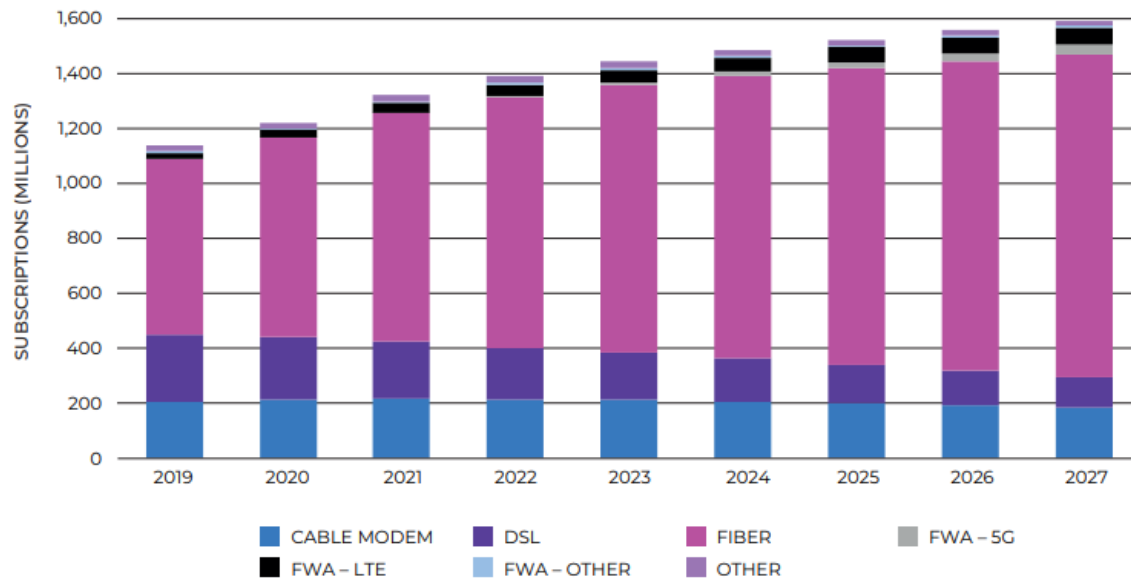
Total de domicílios (%)



Mais (e mais!) dados

Offload do tráfego

FIGURE 3: GLOBAL FIXED BROADBAND SUBSCRIPTIONS BY TECHNOLOGY FORECAST, 2019-27

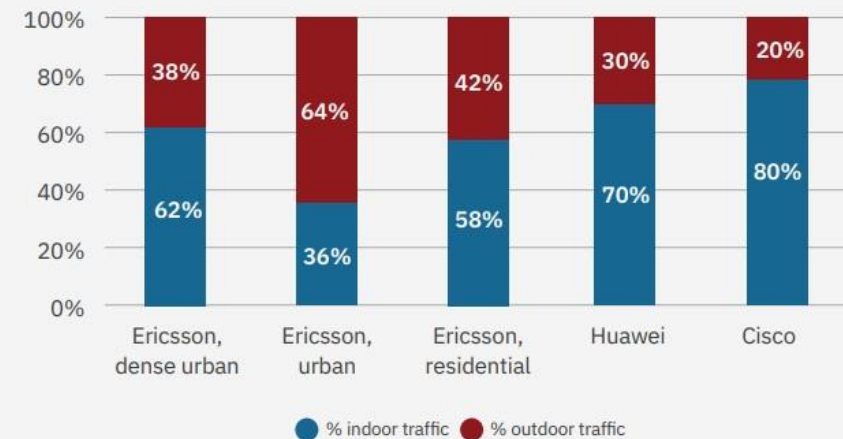


SOURCE: OMDIA

Fonte: [The-Importance-of-Environmental-Sustainability-in-Telecom-Service-Providers-Strategy-World-Broadband-Association-White-Paper.pdf](https://www.worldbroadbandassociation.com/)
(worldbroadbandassociation.com)

Fonte: <https://www.wi-fi.org/wi-fi-download/42613>

Figure 2: Proportion indoor versus outdoor for mobile traffic

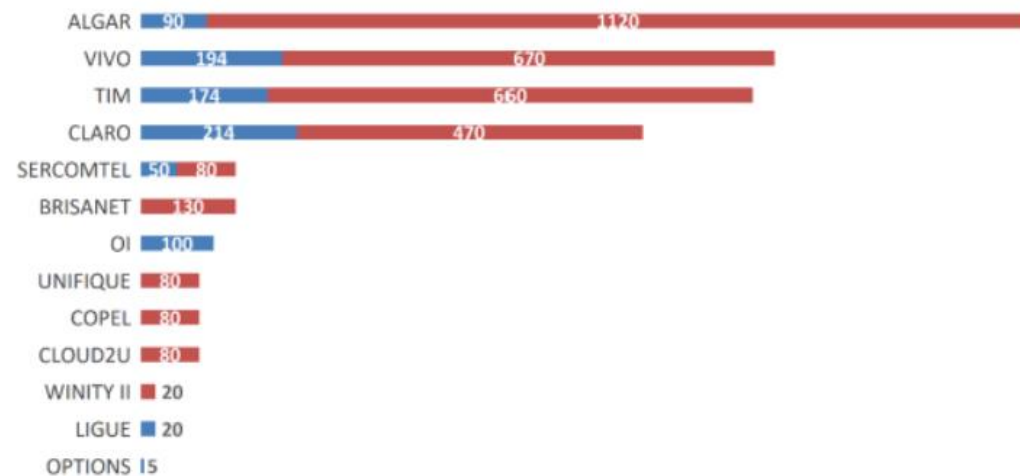


Source: Ofcom (2022)

Eficiência espectral

Reduzir os 1200 MHz é restringir a conectividade

Largura de Banda Antes e Depois do Leilão 2021 por Prestadora (MHZ)



Antes do Leilão 2021 (5G) Leilão 2021 (5G)

Fonte: Anatel (dados extraídos em 25/02/2022)



Use outdoor 6GHz

Garantia contra a interferência prejudicial

Open
AFC

Telecom Infra Project, Inc.

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Name: Mauricélio Lucas de Oliveira Junior
Title: President

AFC Configuration

Country	FS Database	AP Min. EIRP (Min: -100 dBm)	AP Max. EIRP	AP Min. PSD	Building Penetration Loss	Polarization Mismatch Loss
Brazil	FS_brazil_6GHz_5925_7125...	21 dBm	36 dBm	8 dBm/MHz	Fixed Value	3 dB
					Value	0 dB
FS Receiver Feeder Loss	FS Receiver Noise Floor	RLAN Indoor Body Loss	I/N Threshold	Max Link Distance to Consider	Default FS Receiver Antenna Pattern	AP Uncertainty Region Scanning Resolution
IDU 3 dB	FS Freq <= 6425 MHz -110 dBm/MHz	0 dB	-6 dB	130 km	F,699	Horizontal PL... 3600 pdd
ODU 0 dB	FS Freq > 6425 MHz -109,5 dBm/MHz	RLAN Outdoor Body Loss 0 dB				Height 5 m
Unknown 3 dB						
Propagation Model	AP Propagation Environment	ITM Parameters	<input type="checkbox"/> Add Clutter at FS Receiver	Allowed Frequency Ranges	AP Height below Min Allowable AGL	<input checked="" type="checkbox"/> Enable Map in Virtual AP
Brazilian Propagation Model	Population Density Map	Polarization Vertical		Name Low Frequency High Frequency	Height Behavior	
Winner II Combined Confidence 50 %		Ground Type Average Gr...		Brazil 5925 7125	Truncate AP height to min allo...	
Winner II LOS Confidence 50 %		Dielectric Constant 25				
ITM Confidence 50 %		Conductivity 0.0... 5/m				
ITM Reliability 50 %		Path Min Spacing 30 m				
P,2108 Percentage of Locations 50 %		Path Max Points 1500				
Building Data Source None						
Terrain Source SRTM (30m)						
<input type="checkbox"/> Round EIRP and PSD values	Channel Response Algorithm	Visibility Threshold	<input type="checkbox"/> Nearfield Adjustment Factor			
	Total power within FS band	-6 dB I/N				
	Max PSD over FS band					

O risco da fragmentação global

Quem mais perde é o Brasil

- Adopted 5925-7125 MHz
- Adopted 5925/45-6425 MHz, and evaluating 6425-7125 MHz
- Adopted 5925-6425 MHz
- Recommended 5925-6425 MHz
- Under consultation

Region 2

- 1200 MHz
- Canada
- USA
- Honduras
- Costa Rica
- Brazil
- Peru
- Dominican Republic
- Colombia
- Argentina
- El Salvador
- 500 MHz (& evaluating 1200 MHz)
- Chile
- Mexico

Region 1

- 1200 MHz
- Saudi Arabia
- 500 MHz (& evaluating 1200 MHz)
- CEPT Area
- European Union (480 MHz)
- Qatar
- United Kingdom
- 500 MHz
- Morocco
- UAE
- Jordan
- Kuwait
- Kenya
- Israel
- Mauritius (480 MHz)
- Bahrain
- Togo
- Russia
- South Africa
- Namibia
- Africa / ATU

Region 3

- 1200 MHz
- South Korea
- 500 MHz (& evaluating 1200 MHz)
- Australia
- Japan
- Taiwan
- Thailand
- 500 MHz
- Hong Kong
- Malaysia
- New Zealand
- Singapore

6GHz e PPPs

Não é discurso, é prática





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