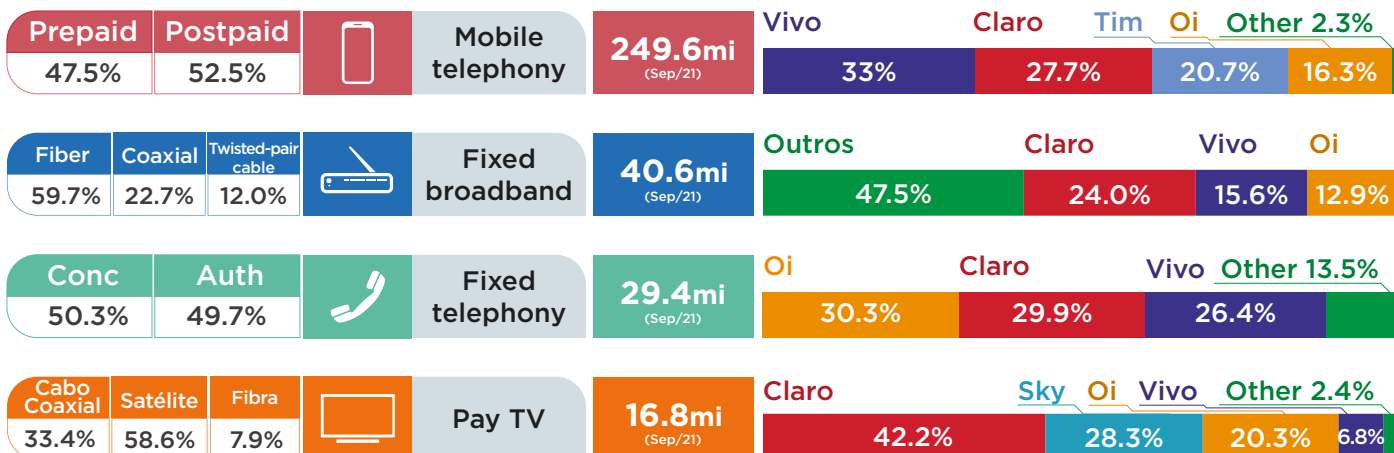


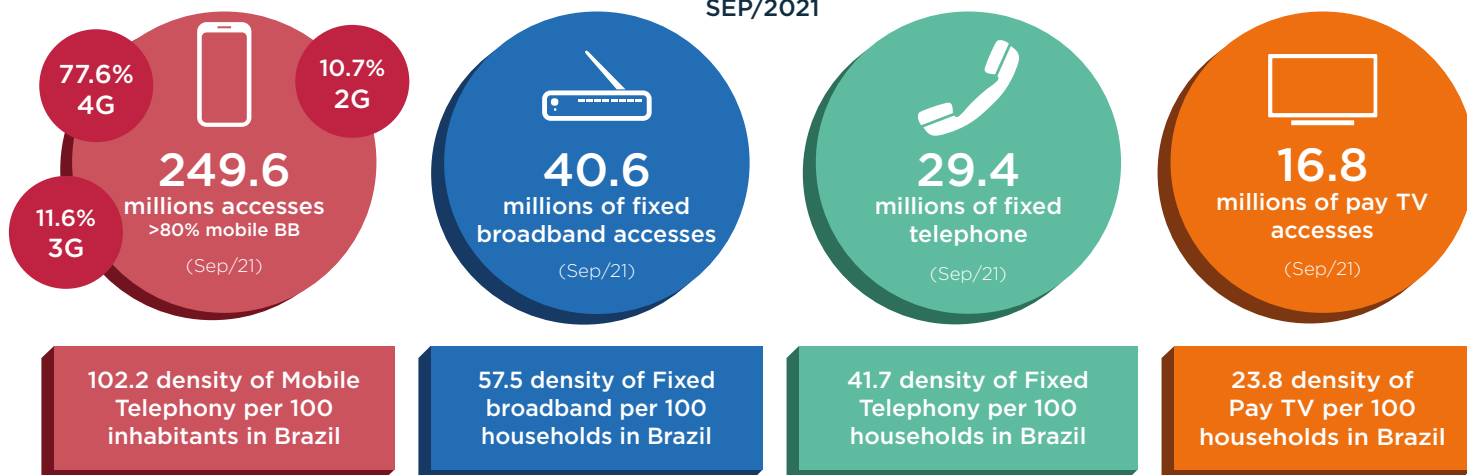


# OVERVIEW OF TELECOMMUNICATIONS IN BRAZIL SEP/2021

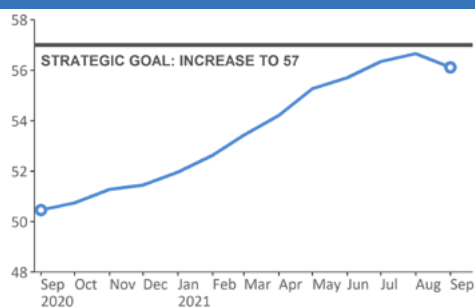


**336.5 Millions**

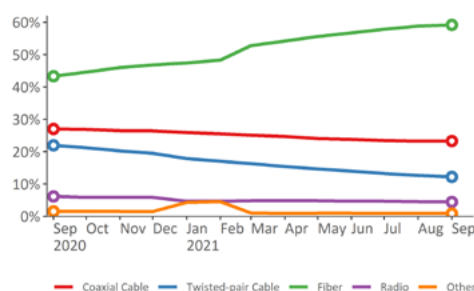
contracts of telecom services in  
SEP/2021



Density of Fixed Broadband



Technological Evolution of  
Fixed Broadband



Market Concentration\*  
of Fixed Broadband



Market Concentration\*  
of Mobile Telephony



\* Market Concentration is calculated using *Herfindahl-Hirschman Index (HHI)*.

Mobile telephony	MOBILE TELEPHONY, PER GROUP AND TECHNOLOGY					
	Group	Accesses	4G	3G	2G	Market Share
	VIVO	82,253,302	60,742,748	8,631,791	12,878,763	33.0%
	CLARO	69,217,459	51,803,902	14,194,051	2,979,624	27.7%
	TIM	51,614,098	45,818,639	2,643,560	3,047,914	20.7%
	OI	40,701,865	31,128,456	3,008,127	6,565,282	16.3%
	Other	5,770,357	4,095,030	427,091	1,248,236	2.3%
	<b>TOTAL</b>	<b>249,557,081</b>	<b>193,588,775</b>	<b>28,904,620</b>	<b>26,719,819</b>	<b>100%</b>
	<b>PERCENTAGE</b>	<b>100%</b>	<b>77.6%</b>	<b>11.6%</b>	<b>10.7%</b>	

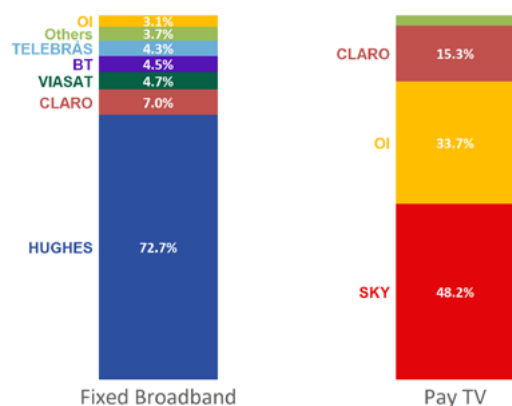
Fixed broadband	FIXED BROADBAND, PER GROUP AND TECHNOLOGY								
	Group	Accesses	Optic Fiber	Coaxial Cable	Twisted-pair cable	Radio	Indefinite	Satellite	Market Share
	CLARO	9,757,068	581,285	9,072,204	73,379	5,593	0	24,607	24.0%
	VIVO	6,325,653	4,357,088	59	1,968,506	0	0	0	15.6%
	OI	5,258,590	3,477,762	122	1,757,257	12,497	0	10,952	12.9%
	Other	19,288,460	15,828,208	170,296	1,064,176	1,906,329	0	319,451	47.5%
	<b>TOTAL</b>	<b>40,629,771</b>	<b>24,244,343</b>	<b>9,242,681</b>	<b>4,863,318</b>	<b>1,924,419</b>	<b>0</b>	<b>355,010</b>	<b>100%</b>
	<b>PERCENTAGE</b>	<b>100%</b>	<b>59.7%</b>	<b>22.7%</b>	<b>12.0%</b>	<b>4.7%</b>		<b>0.9%</b>	

Fixed telephony	ON SERVICE ACCESSES, FIXED TELEPHONY		
	Group	Accesses	Market Share
	OI	8,914,289	30.3%
	CLARO	8,785,428	29.9%
	VIVO	7,766,066	26.4%
	Other	3,960,462	13.5%
	<b>TOTAL</b>	<b>29,426,245</b>	<b>100%</b>

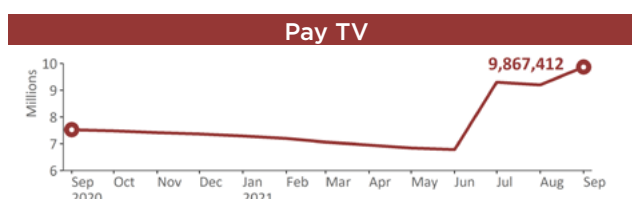
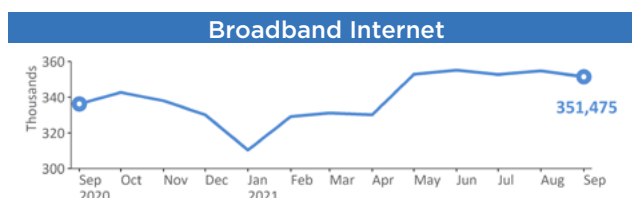
ACCESSES PER TYPE OF GRANTS, FIXED TELEPHONY		
Type	Accesses	Percentual
As a public service concession	14,799,209	50.3%
As a private service	14,627,036	49.7%
<b>TOTAL</b>	<b>29,426,245</b>	<b>100%</b>

Pay TV	PAY TV, PER GROUP AND TECHNOLOGY						
	Group	Accesses	Coaxial Cable	Satellite	Indefinite	Optic Fiber	Market Share
	CLARO	7,115,537	5,513,116	1,514,132	0	88,289	42.2%
	SKY	4,759,998	0	4,759,998	0	0	28.3%
	OI	3,415,830	0	3,320,991	0	94,839	20.3%
	VIVO	1,146,575	0	228,923	0	917,652	6.8%
	Other	405,897	118,334	43,368	0	237,625	2.4%
	<b>TOTAL</b>	<b>16,843,837</b>	<b>5,631,450</b>	<b>9,867,412</b>	<b>0</b>	<b>1,338,405</b>	<b>100%</b>
	<b>PERCENTAGE</b>	<b>100%</b>	<b>33.4%</b>	<b>58.7%</b>		<b>7.9%</b>	

Market Share - Satellite



Number of satellite service accesses



Prepaid TV offers known as Sky Livre or similar were considered as Pay TV and, as of July 2021, became part of the subscriber data base made available by Anatel in its publications.