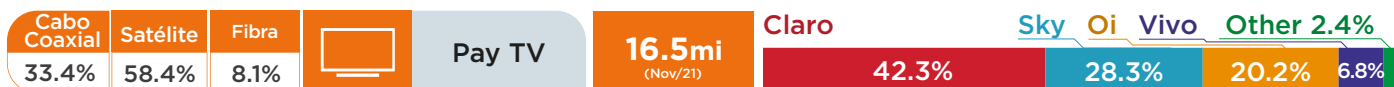
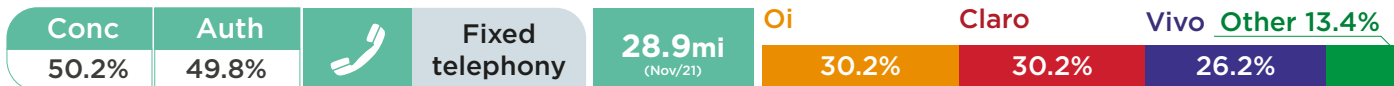
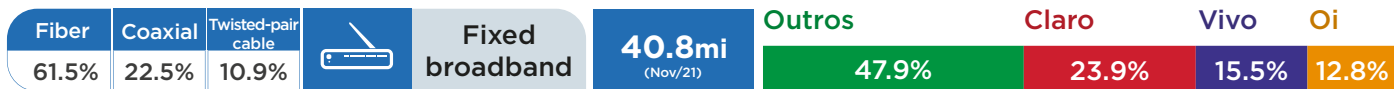
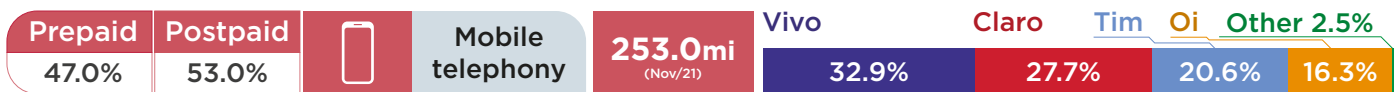
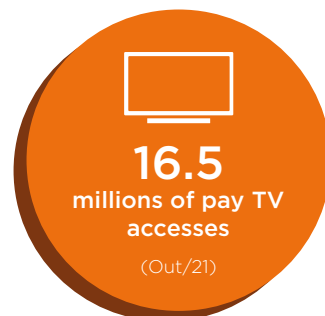
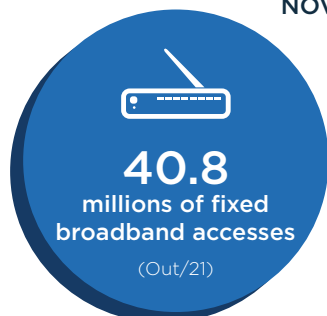
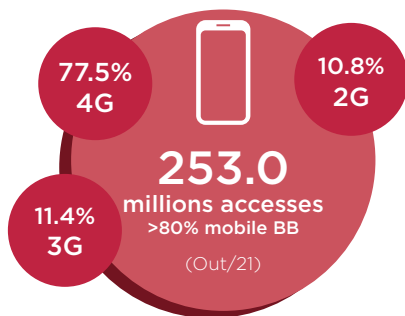




OVERVIEW OF TELECOMMUNICATIONS IN BRAZIL NOV/2021



339.2 Millions
contracts of telecom services in
NOV/2021



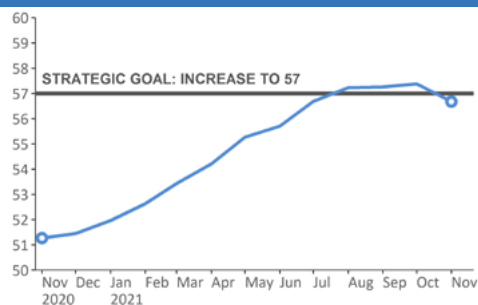
103.1 density of Mobile
Telephony per 100
inhabitants in Brazil

57.8 density of Fixed
broadband per 100
households in Brazil

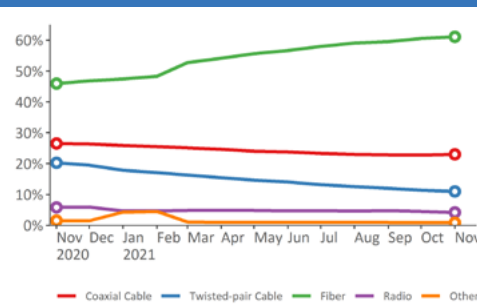
40.9 density of Fixed
Telephony per 100
households in Brazil

23.3 density of
Pay TV per 100
households in Brazil

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	83,308,902	61,218,773	8,568,387	13,127,756	32.9%
	CLARO	70,075,105	52,617,592	14,019,036	3,093,384	27.7%
	TIM	52,073,616	46,174,392	2,566,504	3,097,131	20.6%
	OI	41,342,993	31,580,862	3,186,800	6,575,331	16.3%
	Other	6,216,051	4,370,888	421,594	1,423,569	2.5%
	TOTAL	253,016,667	195,962,507	28,762,321	27,317,171	100%
	PERCENTAGE	100%	77.5%	11.4%	10.8%	

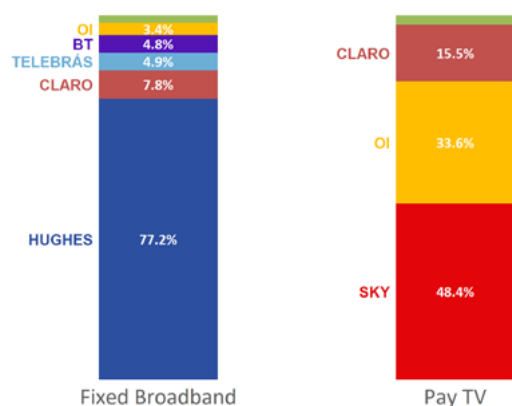
Fixed broadband	FIXED BROADBAND, PER GROUP AND TECHNOLOGY								
	Group	Accesses	Optic Fiber	Coaxial Cable	Twisted-pair cable	Radio	Indefinite	Satellite	Market Share
	CLARO	9,742,578	609,638	9,027,957	74,753	5,428	0	24,802	23.9%
	VIVO	6,328,009	4,535,562	59	1,792,388	0	0	0	15.5%
	OI	5,214,646	3,618,854	122	1,572,463	12,341	0	10,866	12.8%
	Other	19,564,112	16,369,981	170,091	994,665	1,745,350	0	284,025	47.9%
	TOTAL	40,849,345	25,134,035	9,198,229	4,434,269	1,763,119	0	319,693	100%
	PERCENTAGE	100%	61.5%	22.5%	10.9%	4.3%		0.8%	

Fixed telephony	ON SERVICE ACCESSES, FIXED TELEPHONY		
	Group	Accesses	Market Share
	OI	8,736,083	30.2%
	CLARO	8,721,923	30.2%
	VIVO	7,577,486	26.2%
	Other	3,871,865	13.4%
	TOTAL	28,907,357	100%

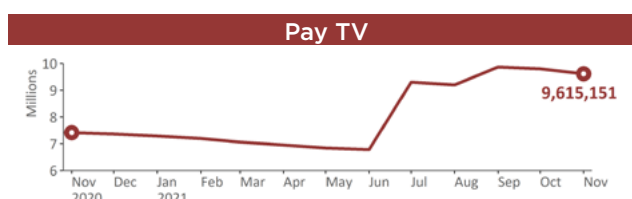
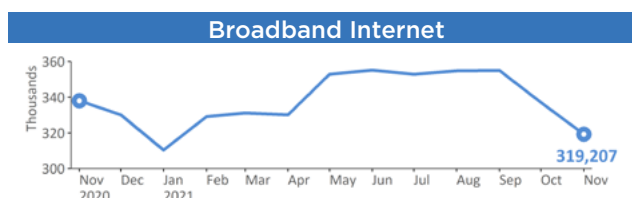
ACCESSES PER TYPE OF GRANTS, FIXED TELEPHONY		
Type	Accesses	Percentual
As a public service concession	14,524,915	50.2%
As a private service	14,382,442	49.8%
TOTAL	28,907,357	100%

Pay TV	PAY TV, PER GROUP AND TECHNOLOGY						
	Group	Accesses	Coaxial Cable	Satellite	Indefinite	Optic Fiber	Market Share
	CLARO	6,964,677	5,383,580	1,494,056	0	87,041	42.3%
	SKY	4,651,482	0	4,651,482	0	0	28.3%
	OI	3,317,199	0	3,226,669	0	90,530	20.2%
	VIVO	1,126,248	0	207,431	0	918,817	6.8%
	Other	393,537	110,221	35,513	0	242,314	2.4%
	TOTAL	16,453,143	5,493,801	9,615,151	0	1,338,702	100%
	PERCENTAGE	100%	33.4%	58.4%		8.1%	

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.