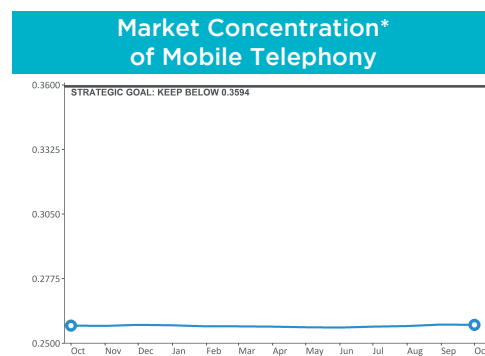
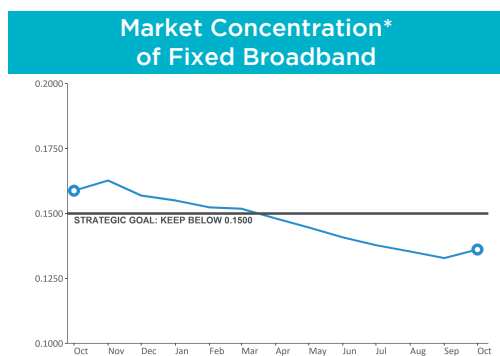
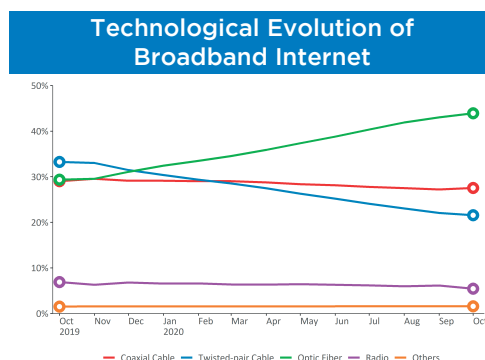
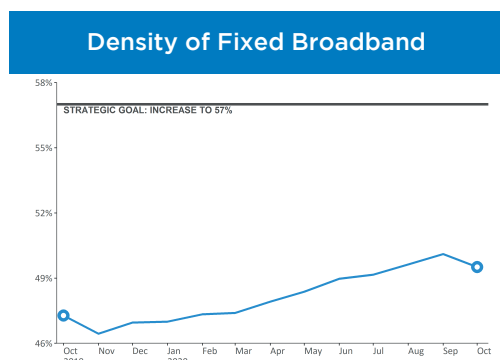
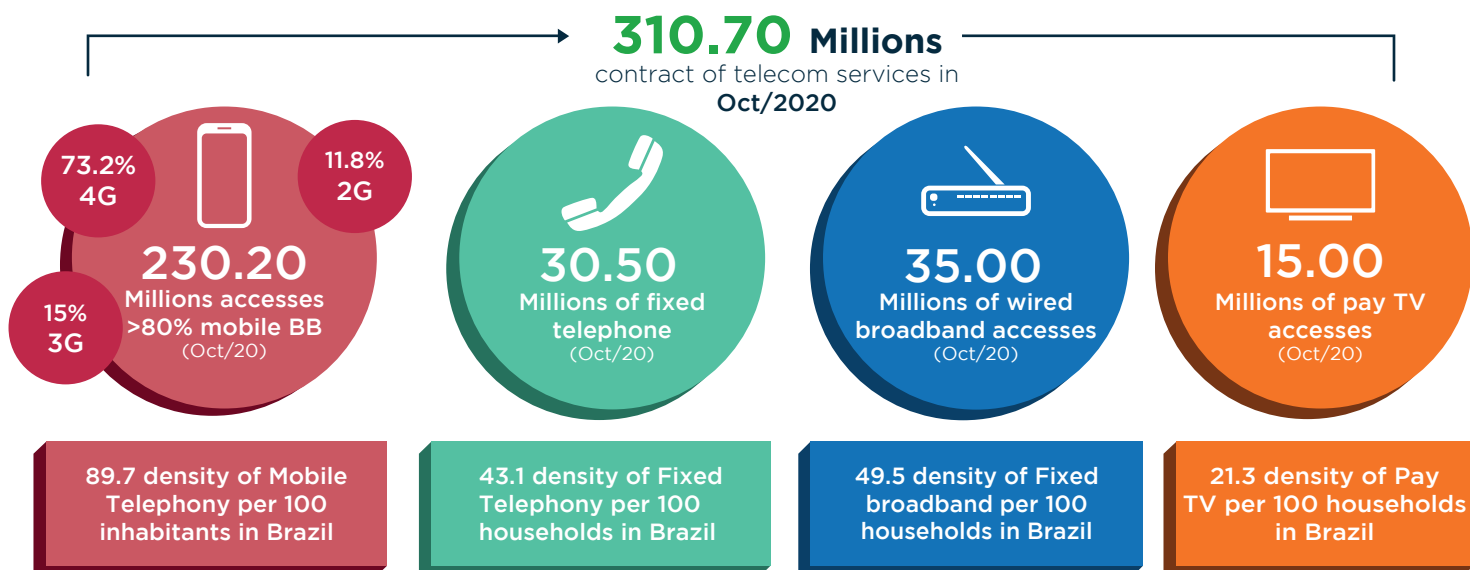
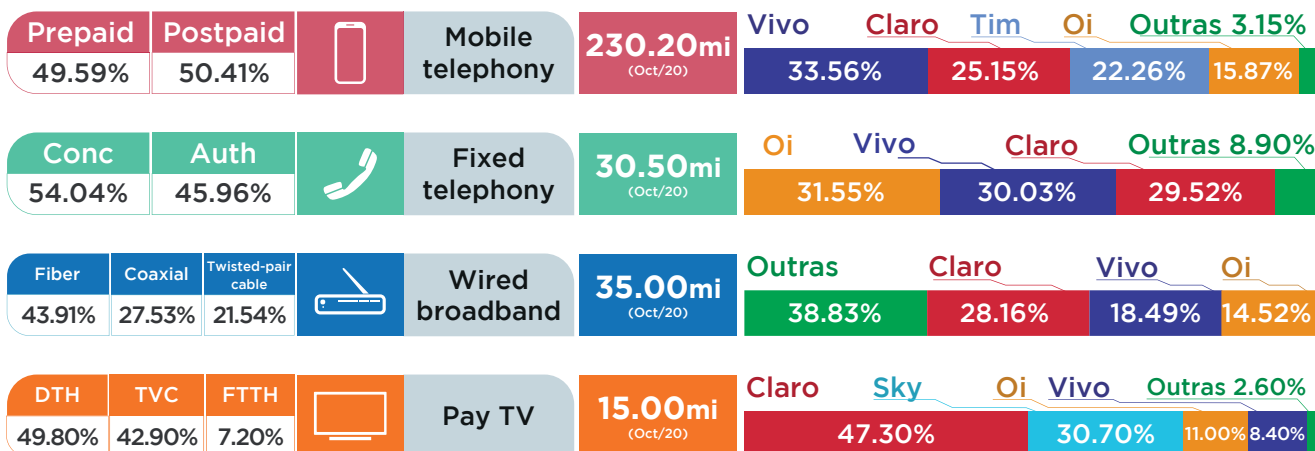




OVERVIEW OF TELECOMMUNICATION IN BRAZIL OCTOBER/2020



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

MOBILE TELEPHONY, PER GROUP AND TECHNOLOGY

Group	Accesses	4G	3G	2G	Market Share
VIVO	77,258,509	54,320,755	9,596,572	13,341,182	33.56%
CLARO	57,906,559	40,803,444	15,235,069	1,868,046	25.15%
TIM	51,257,036	40,969,006	5,709,219	4,578,811	22.26%
OI	36,546,943	26,578,746	3,278,955	6,689,242	15.87%
OTHER	7,260,799	5,727,247	807,566	725,986	3.15%
TOTAL	230,229,846	168,399,198	34,627,381	27,203,267	100.00%
PERCENTAGE	100.00%	73.14%	15.04%	11.82%	

ON SERVICE ACCESSSES, FIXED TELEPHONY

Group	Accesses	Market Share
OI	9,608,555	31.55%
VIVO	9,145,486	30.03%
CLARO	8,989,449	29.52%
OTHER	2,708,407	8.89%
TOTAL	30,451,897	100.00%

ACCESSSES PER TYPE OF GRANTS, FIXED TELEPHONY

Type	Accesses	Percentual
As a public service concession	16,455,265	45.96%
As a private service	13,996,632	54.04%
TOTAL	30,451,897	100.00%

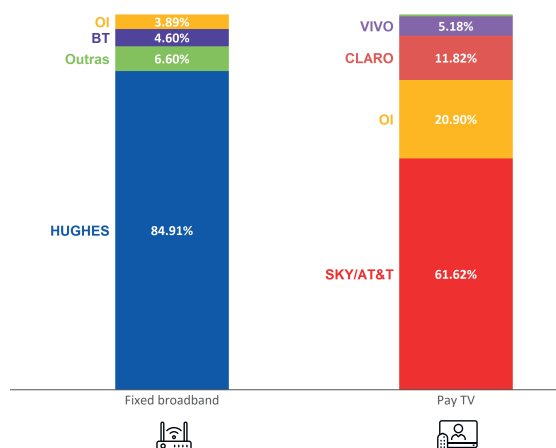
WIRED BROADBAND, PER GROUP AND TECHNOLOGY

Group	Accesses	Twisted-pair cable	Coaxial Cable	Optic Fiber	Radio	LTE	Satellite	Market Share
CLARO	9,848,568	77,054	9,309,447	437,458	14,528	0	10,081	28.16%
VIVO	6,465,519	3,137,023	0	3,328,496	0	0	0	18.49%
OI	5,077,094	2,844,957	0	2,203,012	15,901	0	13,224	14.52%
OTHER	13,579,500	1,474,790	318,334	9,386,575	1,869,139	214,396	316,266	38.83%
TOTAL	34,970,681	7,533,824	9,627,781	15,355,541	1,899,568	214,396	339,571	100.00%
PERCENTAGE	100.00%	21.54%	27.53%	43.91%	5.43%	0.61%	0.97%	

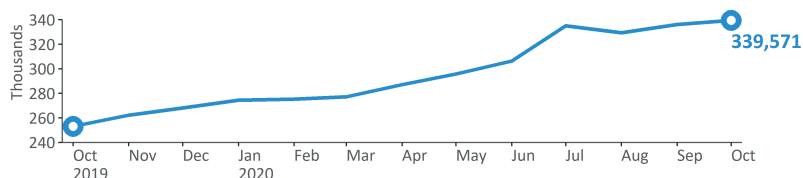
PAY TV, PER GROUP AND TECHNOLOGY

Group	Accesses	DTH	FTTH	MMDS	TVA	TVC	Market Share
CLARO	7,103,547	884,905	0	0	0	6,218,642	47.28%
SKY/AT&T	4,614,641	4,614,641	0	0	0	0	30.72%
OI	1,653,497	1,565,526	87,971	0	0	0	11.01%
VIVO	1,255,201	387,762	867,439	0	0	0	8.35%
OTHER	397,132	36,009	129,339	241	64	231,479	2.64%
TOTAL	15,024,018	7,488,843	1,084,749	241	64	6,450,121	100.00%
PERCENTAGE	100.00%	49.85%	7.22%	0.00%	0.00%	42.93%	

MARKET SHARE - SATELLITE



Number of satellite service accesses, Broadband Internet



Number of satellite service accesses, Pay TV

