

Telefonica Brasil

4Q23 Review: Mobile market rationality with Vivo leading the pack

Maintain Rating: BUY | PO: 63.00 BRL | Price: 52.93 BRL

Strong trends across the board

Once again Vivo reported strong results with in line revenue, but beating BofAe by 3.3% and consensus by 2.2% for EBITDA and 14% and 22% for Net income, respectively. Most importantly, strong trends remain, with: i) MSR at +8.7% YoY (~500bps above inflation); ii) fixed revenue acceleration to 3.5% YoY vs 3.1% in 3Q23 and 2.3% in 2Q23; iii) margin expansion of 120bps YoY (100bps ex-others- see exhibit 1); iv) capex declining 6% YoY in 2023 (~10% above BofAe in the 4Q23); and v) churn at historical low of 0.97% for postpaid. Maintain our Buy rating as we see VIVT3 trading at 11.5x P/FCFE 24YE and a div. yield of 9%. (See: Year Ahead: Bullish on Brazilian large Telcos... selective on Tech).

Market rationality on Mobile - Real growth in 2024

Although MSR growth was 30bps below BofAe, Vivo led the sector in the 4Q, growing 8.7% vs 7.6% for TIM and 7.1% for AMX. All players showed real growth in the 4Q (at least 300bps), reinforcing the thesis of market rationality. We expect price increases in postpaid and prepaid and real growth of 100bps for Vivo in 2024.

Looking closer at: Others and working capital

Other operational results reached +R\$350mn, positively impacting EBITDA margin, with R\$292mn from adjustments in lease contracts from Oi's towers acquisition (one-off). However, several items are included in "others", with a historically positive contribution. Looking at ex-others EBITDA margin, it expanded 100bps YoY. Working capital was mainly impacted by "suppliers" (~R\$900mn decline), as Vivo anticipated some contracts, to reach better financial conditions. This also happened in 4Q22 (-R\$400mn).

Bullish View: Total return of ~16% for 2024

In 2023 VIVT3 was up +50% (with dividends) vs 22% for the IBOV. Although we do not expect such performance for 2024, we see similar trends, such as: i) real top line growth; ii) EBITDA margin expansion; and iii) flat/declining Capex. For 2024, we see dividend yield of 9% and 7% EBITDA growth. Assuming multiples remain at 4.5x EV/EBITDA 24YE (historical average), we see a total return of ~16% (Earnings growth of 20% YoY)

Estimates(Dec) (BRL)	2021A	2022A	2023E	2024E	2025E
EPS	3.70	2.46	2.84	3.42	4.35
EPS Change (YoY)	31.2%	-33.5%	15.4%	20.4%	27.2%
Consensus EPS (Bloomberg)			2.94	3.54	4.23
DPS	3.71	1.85	3.15	4.69	2.84
ADR EPS (US\$)	0.69	0.48	0.58	0.69	0.88
ADR DPS (US\$)	0.69	0.36	0.64	0.95	0.58
Valuation (Dec)					
P/E	14.3x	21.5x	18.6x	15.5x	12.2x
Dividend Yield	7.0%	3.5%	6.0%	8.9%	5.4%
EV / EBITDA*	6.2x	6.1x	5.6x	5.2x	4.9x
Free Cash Flow Yield*	8.4%	2.2%	15.8%	14.2%	15.0%
* For full definitions of inmethod sm measures, see page 8					

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Refer to important disclosures on page 9 to 12. Analyst Certification on page 7. Price
Objective Basis/Risk on page 7.

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20 February 2024

Equity

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Stock Data

Drice (Common / ADD)

Price (Common / ADR)	52.93 BRL / 10.74 USD
Price Objective	63.00 BRL / 13.00 USD
Date Established	9-Jan-2024 / 9-Jan-2024
Investment Opinion	B-1-7 / B-1-7
52-Week Range	37.20 BRL - 54.90 BRL
Market Value (mn)	87,472 BRI
Free Float	23.9%
Average Daily Value	20.56 USD
Shares Outstanding (mn)	1,652.6 / 1,652.6
BofA Ticker / Exchange	XCPTF / SAC
BofA Ticker / Exchange	VIV / NYS
Bloomberg / Reuters	VIVT3 BZ / VIVT3.SA
ROE (2023E)	7.0%
Net Dbt to Eqty (Dec-2022A)	7.3%

52 03 PDI / 10 7/LISD

MSR = Mobile Service Revenue

FCFE = Free Cash Flow to Equity

VIVT3= Telefonica Brasil

AMX= America Movil



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iQmethod SM – Bus Performance*					
(BRL Millions)	2021A	2022A	2023E	2024E	2025E
Return on Capital Employed	8.6%	8.2%	8.9%	8.9%	10.1%
Return on Equity	9.0%	5.9%	7.0%	8.7%	11.2%
Operating Margin	15.8%	13.8%	15.2%	17.2%	19.0%
Free Cash Flow	7,375	1,929	13,786	12,401	13,111
i Q method [™] – Quality of Earnings*					
(BRL Millions)	2021A	2022A	2023E	2024E	2025E
Cash Realization Ratio	2.6x	2.8x	4.8x	3.7x	3.0x
Asset Replacement Ratio	0.7x	0.8x	0.7x	0.7x	0.7x
Tax Rate	NM	16.0%	14.2%	16.8%	17.2%
Net Debt-to-Equity Ratio	-1.1%	7.3%	20.2%	20.6%	14.9%
Interest Cover	2.9x	1.7x	1.8x	2.5x	3.3>
Income Statement Data (Dec)					
(BRL Millions)	2021A	2022A	2023E	2024E	2025
Sales	44,033	48,041	52,036	54,610	57,575
% Change	2.1%	9.1%	8.3%	4.9%	5.4%
Gross Profit	40,811	44,200	47,830	50,585	53,201
% Change	1.4%	8.3%	8.2%	5.8%	5.2%
EBITDA	19,007	19,282	21,091	22,486	23,810
% Change	6.7%	1.4%	9.4%	6.6%	5.9%
Net Interest & Other Income	(1,989)	(1,790)	(2,398)	(2,517)	(2,142)
Net Income (Adjusted)	6,244	4,085	4,736	5,714	7,265
% Change	30.9%	-34.6%	15.9%	20.7%	27.2%
Free Cash Flow Data (Dec)					
(BRL Millions)	2021A	2022A	2023E	2024E	20251
Net Income from Cont Operations (GAAP)	6,239	4,085	4,736	5,714	7,265
Depreciation & Amortization	12,038	12,660	13,171	13,102	12,896
Change in Working Capital	(323)	1,249	1,231	227	(44)
Deferred Taxation Charge	NA	NA	NA	NA	NA
Other Adjustments, Net	(1,896)	(6,535)	3,401	2,095	1,774
Capital Expenditure	(8,685)	(9,530)	(8,753)	(8,738)	(8,780)
Free Cash Flow	7,375	1,929	13,786	12,401	13,111
% Change	-21.1%	-73.8%	614.6%	-10.0%	5.7%
Share / Issue Repurchase	NA (C.254)	NA (2.075)	NA (5.25.4)	NA (7.020)	NA (4.707)
Cost of Dividends Paid	(6,264)	(3,075)	(5,254)	(7,830)	(4,737)
Change in Debt	3,283	1,565	(1,945)	0	С
Balance Sheet Data (Dec)	2021A	2022A	20225	20245	2025
(BRL Millions)	6,479		2023E	2024E 4.048	2025
Cash & Equivalents Trade Receivables	8,100	2,275	4,190 8.785	,	8,128 9,728
Other Current Assets	6,481	8,691 6,318	6,109	9,252 5,999	6,120
Property, Plant & Equipment	33,656	34,581		36,284	37,706
Other Non-Current Assets	50,195	55,848	34,739 65,244	61,652	59,063
Total Assets	104,911	107,713	119,067	117,235	120,745
Short-Term Debt	3,999	2,517	4,356	4,271	4,393
Other Current Liabilities Long-Term Debt	15,553 1,704	16,151 4,752	18,323 13,323	18,802 13,109	21,884 13,415
Other Non-Current Liabilities	13,171	15,213	16,245	16,245	16,245
Total Liabilities	34,427	38,633	52,248	52,426	55,937
Total Equity	70,006	68,456	66,820	64,809	64,809
Total Equity & Liabilities	104,433	107,089	119,067	117,235	120,745
* For full definitions of **Domethod** measures see page 8	•	107,009	115,007	117,233	120,743

Company Sector

Telecom Equipment-Wireless/Cellular

Company Description

Telefonica Brasil (Vivo) is a full-service telco carrier, using the Vivo brand. It is the leading wireless company in Brazil with 77mn subscribers (34% share), the fixed-line incumbent in the state of São Paulo, and it has been deploying fiber-to-the-home (FTTH) in 268 cities to expand its footprint and enhance its network infrastructure. Today, Vivo has 14.6mn homes passed with FTTH and is expected to end 2024 with more than 24mn. Vivo is controlled by Telefonica of Spain, with 74% stake.

Investment Rationale

Vivo is going through an important transformation where Fiber (FTTH) is offsetting the legacy products and we expect to see a growth in the fixed business, after 5 years of decline. On mobile, it continues to rely on its premium base of clients which has proved to be more resilient in challenging macro periods. We also see the company well positioned to benefit from the acquisition of Oi's assets and the ICMS reduction. Finally, the high liquidity and low beta help in a difficult macro scenario

Stock Data

Average Daily Volume	1,916,667
Shares / ADR	1.00

Quarterly Earnings Estimates

	2022	2023
Q1	NA	NA
Q2	NA	NA
Q3	NA	NA
04	NA	NA

* For full definitions of *IQ*methodSM measures, see page 8.

Exhibit 1: Even excluding the positive impact from other revenues on Vivo's Results, we still saw a ~100bps YoY EBITDA margin expansion

Evolution of Vivo's EBITDA ex-other expenses (Revenues)

(R\$mn)	4Q23	4Q22	YoY	3Q23	QoQ
Revenue	13,535	12,659	6.9%	13,112	3.2%
EBITDA Ex-Others	5,403	4,931	9.6%	5,265	2.6%
Margin (%)	40%	39%	1.0%	40%	-0.2%
(R\$mn)	3Q23	3Q22	YoY		
Revenue	13,112	12,199	7.5%		
EBITDA Ex-Others	5,265	4,772	10.3%		
Margin (%)	40%	39%	1.0%		
(R\$mn)	2Q23	2Q22	YoY		
Revenue	12,733	11,831	7.6%		
EBITDA Ex-Others	5,047	4,546	11.0%		
Margin (%)	40%	38%	1.2%		

Source: Company data; BofA Global Research

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Churn is at historical low

Churn reached 0.97% in 4Q vs 1.09% in 3Q and 1.05% in 4Q22. Once again, we see it as a sign of operational improvement and most importantly market rationality. Looking only at the churn of Vivo Total (Combo package) it stands at 0.4%, but the base is still low at 1.3mn subs. Moreover, we expect churn ratios to remain low.

Positive moves starting on prepaid

Prepaid prices saw limited expansion from 2021 to mid-2023, with the minimum price to stay connected for a month remaining flat during the period. In 2H23 however, we saw some moves of more rationality, led by Vivo that raised the prices for some of its weekly/bi-weekly offers (but still not raising monthly entry prices). In recent months, we saw the first entry price hike in years, with TIM increasing its 30-day offer from R\$30 to R\$34. Going forward we expect similar moves to continue happening in prepaid. (See: BZ Telecom Price Tracker: First prepaid entry price hike in years).

B2B Digital – Another growth driver

The B2B digital is one of Vivo's segments that usually gets limited attention from the market but has been performing well in recent quarters. In 2023, it represented 6.5% of the company's revenues and had a top line expansion of 25% YoY. Overall, we expect a similar growth pace to continue going forward. We highlight that this segment has lower EBITDA margins (~20%), but also has almost no capex, so it has a similar Op.FCF margin to Vivo's other businesses.

The Company will host its 4Q23 Conference Call on Wednesday February 21st at 09am EST. To access please click on the link available in its website.



Exhibit 2: Vivo reported solid 4Q results, with MSR up 9% YoY and EBITDA margin (ex-others) up 100bps YoY

Vivo's 4Q23 Review table

In BRLm, except stated otherwise	4Q23a	4Q23e	Consensus	A/E	A/C	4Q22	YoY	3Q23	QoQ
Revenue	13,535	13,485	13,484	0.4%	0.4%	12,659	6.9%	13,112	3.2%
Mobile service revenue	8,602	8,629	8,596	(0.3%)	-	7,914	8.7%	8,465	1.6%
Fixed service revenue	3,891	3,923	996	(0.8%)	-	3,761	3.5%	3,833	1.5%
Equipment sales revenue	1,042	933	3,892	11.7%	-	985	5.8%	814	28.0%
Cash opex	7,783	(7,918)	(7,880)	NM	-	(7,425)	NM	(7,573)	NM
EBITDA (adjusted)	5,752	5,567	5,604	3.3%	2.6%	5,234	9.9%	5,539	3.8%
EBITDA margin	42.5%	41.3%	41.6%	121bps	94bps	41.3%	115bps	42.2%	25bps
Net financial results	(631)	(671)		(5.9%)	-	(604)	4.5%	(570)	10.7%
Pre-tax profit	1,617	1,611		0.4%	-	1,349	19.9%	1,548	4.5%
Income tax expense	(13)	(208)		(93.7%)	-	(231)	(94.4%)	(72)	(81.8%)
Net profit (reported)	1,601	1,403	1,318	14.1%	21.5%	1,118	43.2%	1,471	8.8%
EPS (stated)	1.0	0.8	0.8	14.1%	21.4%	0.7	43.0%	0.9	8.8%
Capex	2,295	2,090	2,268	9.8%	-	2,489	(7.8%)	2,626	(12.6%)
In BRLm, except stated otherwise	4Q23a	4Q23e	Consensus	A/E	A/C	4Q22	YoY	3Q23	QoQ
<u>Mobile</u>									
Prepaid mobile subs, EOP	37,267	37,246	=	0.1%	-	39,306	(5.2%)	37,163	0.3%
Postpaid mobile subs, EOP	61,808	61,517	=	0.5%	-	58,673	5.3%	60,424	2.3%
Total mobile subs, EOP	99,075	98,763	=	0.3%	-	97,979	1.1%	97,587	1.5%
Mobile ARPU	29.2	29.3	=	(0.5%)	-	27.0	8.0%	28.9	0.9%
Mobile service revenue	8,602	8,629	=	(0.3%)	-	7,914	8.7%	8,465	1.6%
<u>Fixed</u>									
FTTH subs, EOP	6,175	6,168	=	0.1%	-	5,482	12.6%	5,992	3.1%
FTTH ARPU	89	88	=	0.9%	-	87	2.9%	89	0.4%
FTTH revenue	1,627	1,611	-	1.0%	-	1,397	16.5%	1,570	3.6%
FTTC revenue	44	47	=	(5.5%)	-	101	(56.6%)	58	(23.8%)
Fixed service revenue	3,891	3,923	=	(0.8%)	-	3,761	3.5%	3,833	1.5%
Handset and Devices									
Equipment sales revenue	1,042	933	=	11.7%	-	985	5.8%	814	28.0%
Source Company data, Roff Clobal Possarch, Ploomborg									

Source: Company data; BofA Global Research, Bloomberg

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Exhibit 3: In December Claro reported 352k net adds, Vivo 214k and TIM 123k

Mobile postpaid net adds per month (000's subs)

Post-paid Net Adds (MoM)	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Vivo	119	97	10	(272)	137	134	194	150	274	133	672	213	214
Claro	(1,970)	216	216	214	168	212	94	232	200	495	293	436	352
Tim	(437)	(117)	(185)	(1,056)	87	119	73	121	134	102	81	178	123
Oi	=	-	-	-	-	-	-	-	=	-	-	-	-
Others	4	6	7	(2)	6	2	8	8	5	5	5	1	0

Source: BofA Global Research

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Exhibit 4: In December Claro reported 175k net adds, Vivo 85k and TIM -38k

Mobile prepaid net adds per month (000's subs)

Pre-paid Net Adds (MoM)	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Vivo	(143)	118	(193)	64	(386)	(367)	(472)	(305)	(451)	(151)	39	(20)	85
Claro	(134)	(469)	(869)	(23)	53	54	88	85	92	17	49	(96)	175
Tim	187	(367)	(233)	833	(539)	(212)	(264)	(106)	(224)	(232)	(174)	(232)	(38)
Oi	-	-	-	-	-	-	-	-	-	-	-	-	-
Others	(222)	181	(3)	9	(4)	10	5	2	3	(1)	14	15	(22)

Source: BofA Global Research

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Exhibit 5: Slight net adds deceleration in December

Broadband net adds per month (000's subs)

Broadband Net Adds (MoM)	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Vivo	11	9	16	9	13	26	28	25	20	40	30	29
Claro	25	1	23	10	16	17	19	24	22	16	27	21



Source: BofA Global Research

Exhibit 5: Slight net adds deceleration in December Broadband net adds per month (000's subs)

Broadband Net Adds (MoM)	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Tim	6	6	4	7	12	9	12	10	7	10	3	(1)
Desktop	9	7	129	7	7	8	9	9	6	7	7	5
Unifique	38	2	8	8	1	28	22	3	1	1	1	2
Brisanet	20	16	23	19	13	18	16	17	14	10	12	13
Oi	(1)	(44)	(2)	2	0	(36)	(53)	(25)	(23)	(52)	8	(37)

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Exhibit 6: Overall soft performance across the board in December

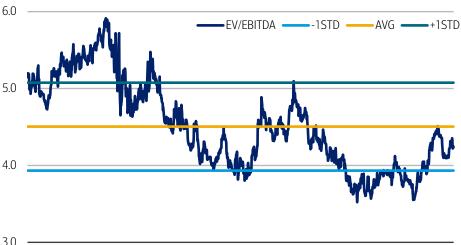
Evolution of fiber subscribers (000's subs)

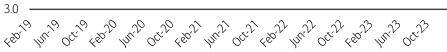
Fiber Subscribers	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Vivo	5,484	5,546	5,593	5,653	5,699	5,751	5,810	5,873	5,936	5,993	6,062	6,121	6,176
Claro	885	919	940	968	993	1,024	1,058	1,093	1,132	1,171	1,213	1,257	1,299
Tim	555	570	584	599	613	633	649	668	685	698	714	722	725
Desktop	809	818	826	955	962	968	976	985	993	999	1,006	1,012	1,017
Unifique	606	644	645	654	662	662	690	712	715	716	716	717	719
Brisanet	1,100	1,121	1,136	1,159	1,178	1,191	1,210	1,226	1,243	1,257	1,267	1,280	1,292
Oi	4,234	4,279	4,275	4,314	4,348	4,379	4,373	4,345	4,345	4,345	4,347	4,346	4,337

Exhibit 7: Despite the recent positive stock performance we still see Vivo trading at a discount to its historical average

Vivo's historical EV/EBITDA

Source: BofA Global Research





Source: Bloomberg

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Price objective basis & risk

Telefonica Brasil (XCPTF / VIV)

Our price objective of R\$63/US\$13 per share is based on a 10-year DCF-to-Firm, discounted at a weighted average cost of capital (WACC) of 12.5%, assuming a capital structure of 95% equity / 5% debt in the long term. Our cost of equity (Ke) is composed of a Beta of 0.80, a risk-free rate of 3%, a market risk premium of 5.7% and a country risk in Brazil of 280bps. We use cost of debt of 5% and terminal growth rate of 3%.

Risks: (i) limited benefit from the macroeconomic recovery given its premium customer base, (ii) legacy business continues to pressure top-line growth, (iii) price pressure in the mobile segment given the highest ARPU in the space, (iv) creation of dividend tax would strongly impact Vivo.

Analyst Certification

We, Fred Mendes, CFA, Gustavo Tiseo, Lucca R Brendim and Mirela Oliveira, hereby certify that the views each of us has expressed in this research report accurately reflect each of our respective personal views about the subject securities and issuers. We also certify that no part of our respective compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

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Latin America - Telecom Services and Information Technology Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	America Movil	AMX	AMX US	Fred Mendes, CFA
	America Movil	AMXVF	AMXB MM	Fred Mendes, CFA
	Desktop S.A	XNUKF	DESK3 BZ	Fred Mendes, CFA
	Eletromidia	XSUHF	ELMD3 BZ	Fred Mendes, CFA
	Locaweb	XZVMF	LWSA3 BZ	Fred Mendes, CFA
	Telefonica Brasil	XCPTF	VIVT3 BZ	Fred Mendes, CFA
	Telefonica Brasil	VIV	VIV US	Fred Mendes, CFA
	Televisa	TV	TV US	Fred Mendes, CFA
	Televisa	GRPFF	TLEVICPO MM	Fred Mendes, CFA
	TIM Brasil	TIMB	TIMB US	Fred Mendes, CFA
	TIM Brasil	XZUAF	TIMS3 BZ	Fred Mendes, CFA
	TOTVS	XBEGF	TOTS3 BZ	Fred Mendes, CFA
	VTEX	VTEX	VTEX US	Fred Mendes, CFA
NEUTRAL				
	Intelbras S.A.	XLTXF	INTB3 BZ	Fred Mendes, CFA
UNDERPERFORM				
	Brisanet	XNHKF	BRIT3 BZ	Fred Mendes, CFA
	Megacable Holdings SAB	MHSDF	MEGACPO MM	Fred Mendes, CFA
	Unifique S.A	XFYDF	FIQE3 BZ	Fred Mendes, CFA



EV / EBITDA

IQmethod[™] Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) \times (1 $-$ Tax Rate) + Goodwill Amortization	Total Assets — Current Liabilities + ST Debt + Accumulated Goodwill Amortization
Return On Equity	Net Income	Shareholders' Equity
Operating Margin	Operating Profit	Sales
Earnings Growth	Expected 5 Year CAGR From Latest Actual	N/A
Free Cash Flow	Cash Flow From Operations – Total Capex	N/A
Quality of Earnings	Numerator	Denominator
Cash Realization Ratio	Cash Flow From Operations	Net Income
Asset Replacement Ratio	Capex	Depreciation
Tax Rate	Tax Charge	Pre-Tax Income
Net Debt-To-Equity Ratio	Net Debt = Total Debt - Cash & Equivalents	Total Equity
Interest Cover	EBIT	Interest Expense
Valuation Toolkit	Numerator	Denominator
Price / Earnings Ratio	Current Share Price	Diluted Earnings Per Share (Basis As Specified)
Price / Book Value	Current Share Price	Shareholders' Equity / Current Basic Shares
Dividend Yield	Annualised Declared Cash Dividend	Current Share Price
Free Cash Flow Yield	Cash Flow From Operations – Total Capex	Market Cap = Current Share Price × Current Basic Shares
Enterprise Value / Sales	EV = Current Share Price × Current Shares + Minority Equity + Net Debt + Other LT Liabilities	Sales

Enterprise Value Basic EBIT + Depreciation + Amortization Manethod 34 is the set of BofA Global Research standard measures that serve to maintain global consistency under three broad headings: Business Performance, Quality of Earnings, and validations. The key features of iQmethod are: A consistently structured, detailed, and transparent methodology. Guidelines to maximize the effectiveness of the comparative valuation process, and to identify some common pitfalls.

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Telefonica Brasil (XCPTF) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Telefonica Brasil (VIV) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Telecommunications Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	57	51.82%	Buy	43	75.44%
Hold	27	24.55%	Hold	17	62.96%
Sell	26	23.64%	Sell	12	46.15%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

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Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R2}

 Buy
 ≥ 10%
 ≤ 70%

 Neutral
 ≥ 0%
 ≤ 30%

 Underperform
 N/A
 ≥ 20%

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