

SUZANO

3Q24 Preview: Waiting for better days to come

LatAm Pulp & Paper

(i) In the pulp division, we expect slightly lower shipments, reaching 2.5Mt Genial **Est.** (-0.9% g/g; +1.5% y/y); (ii) We project realized price contraction in USD, to US\$668/t Genial Est. (-4.7% q/q), but with **FX compensation**, reaching **R\$3,703/t** Genial Est. (+1.3% q/q); (iii) Our model indicates better volume for paper (+3.0% q/q; +3.7% y/y); (iv) Net revenue should be R\$11.7bn Genial Est. (+2.5% q/q; +31.7% y/y), with moderate growth in the sequential movement and boosted in the year-on-year comparison, given that last year's BHKP downturn has bottomed out at a lower price than this one; (v) COGS/t pressured: R\$870/t Genial Est. (+2.4% q/q), with a **one-off impact** from Cerrado and maintenance stoppages; **(vi) Flat EBITDA**, measured in our model at **R\$6.2bn Genial Est.** (+0.1% q/q); (vii) Recovered net income, clocking in at R\$2.8bn Genial Est, after FX rate impact in 2Q24 and accounting effect of adjustments to the financial result; (viii) We believe that the efficiency gain that the ramp-up of Cerrado project should bring is not currently reflected in the market valuation. COGS/t is expected to fall to ~R\$500/t (vs. R\$800/t currently) in 2025. We see Suzano heavily discounted, trading at an **EV/EBITDA 25E** of **5.4x** (vs. historical average of 7x), which leads us to reiterate our BUY rating, with a 12M Target Price of R\$72.00, reflecting an upside of +29.10%.

Suzano will release its 3Q24 results on October 24, after the market closes. It should be a quarter with a slight increase in Net revenue (+2.5% q/q) and flat **EBITDA** ($\pm 0.1\%$ q/q). **Net income may gain momentum**, reversing the loss of 2Q24, due to the recording of financial gains on currency hedge positions and debt variation in USD. We emphasize that there is no effect on cash flow in relation to these gains. In a quarter without major changes in results, the **Cerrado project** should only bring more volume from 4Q24 onwards. Therefore, we believe in an increased flow of investors setting up long positions throughout 2025. The valuation at the current price offers a **good entry point**, which have (until now) remained without short-term catalysts in the face of the bearish pulp cycle.

Table 1. Shipments Summary (3Q24 Genial Est.)

(Thousand Tonnes - kt)	Genial Est.				
Summary	3Q24E	2Q24A	% q/q	3Q23A	% y/y
Pulp Shipments	2.522	2.545	-0,9%	2.486	1,5%
Paper Shipments	343	333	3,0%	331	3,7%

Source: Suzano, Genial Investimentos

Analysts

Igor Guedes

+55 (11) 3206-8286 igor.guedes@genial.com.vc

Luca Vello

+55 (11) 3206-1457 luca.vello@genial.com.vc

Isabelle Casaca

+55 (11) 3206-8244 isabelle.casaca@genial.com.vc

Company

SUZB3 BZ Equity

Buy

Price: R\$ 55.77 (18-Oct-2024) Target Price 12M: R\$ 72.00

SUZ US Equity

Target Price 12M: US\$ 12.65

Table 2.	Income	Statement 9	Summary	(3024	Genial	Est.)

(R\$ millions)	Genial Est.				
Income Statement	3Q24E	2Q24A	% q/q	3Q23A	% y/y
Net Revenue	11.786	11.495	2,5%	8.948	31,7%
Adjusted EBITDA	6.296	6.288	0,1%	3.695	70,4%
Net Income	2.836	(3.764)	-	(729)	-

Source: Suzano, Genial Investimentos



On the **operational side**, we expect **pulp sales** of **2.5Mt Genial Est.** (-0.9% q/q; +1.5% y/y), with 2/3 of the quarter at a slower sales pace, and with greater demand from China only in September, stabilizing shipments sequentially. For the **realized price**, our projection indicates **a drop in USD**, reaching **US\$668/t Genial Est.** (-4.7% q/q; +22.2% y/y). However, this fall is partially offset by the **acceleration in the USD/BRL exchange rate**, resulting, after conversion, in **R\$3,658/t Genial Est.** (+0.8% q/q; +37.7% y/y), also basically stable q/q.

3Q24 Preview: In detail!

Demand was disproportionate, but shipments should remain flat. We expect pulp sales of 2,522Kt Genial Est. (-0.9% q/q; +1.5% y/y), with a mild sequential retraction and a slight increase on an annual basis. According to market data that we follow, and which was put into context in conversations with the company, we believe that demand was lower in the first 2/3 of the quarter, with recovery only in September, precisely when the BHKP China curve fell back to US\$570/t (-25% in ~60 days). We believe that this reflects the strategy of the Chinese non-integrated paper industry, which is waiting for prices to fall before refilling the market pulp orderbook more emphatically. Our analysis indicates that, although shipments were more apathetic for more than half of the quarter, the acceleration of demand in the last month will leave the sales level in the 3Q24 consolidated figures in a basically stable line vs. last quarter.

Lower realized BHKP prices will be offset by the FX rate effect. We are projecting the realized pulp price at US\$668/t Genial Est. (-4.7% q/q; +22.2% y/y), with sequential retraction impacted by the strong contraction of the spot curve in the BHKP China benchmark. However, this fall is partially offset by the acceleration in the USD/BRL exchange rate, resulting, after conversion, in R\$3,658/t Genial Est. (+0.8% q/q; +37.7% y/y). We believe that, since the price of BHKP is approaching the marginal cost of smaller producers (~US\$560/t currently), values should remain at this level for only a short period, before allowing for a recovery later on (we will explore this topic further at the end of the report).

Table 3. Realized Price Suzano (3Q24 Genial Est.)

(R\$/t) Realized Price	3Q24E Genial Est.	2Q24 Reported	% q/q	3Q23 Reported	% y/y
Pulp	3.658	3.629	0,8%	2.657	37,7%
Paper	7.462	6.787	10,0%	7.085	5,3%

Source: Suzano, Genial Investimentos

We expect growth in paper segment sales. We project an improvement in paper segment sales to 343Kt (\pm 3.0% q/q; \pm 3.7% y/y), driven by seasonally stronger demand, due to: (i) the PNLD (National Textbook Program) and (ii) the period of municipal elections in Brazil, which historically increase demand for paper. We see this phenomenon particularly linked to the P&W segment, coming from politicians' advertising materials.



In addition, the difference observed in relation to the annual base is due to the normalization of the capacity addition of +130Ktpa from the operations that the company acquired from Kimberly-Clark (K-C) in Brazil, linked to the tissue segment. In previous quarters it was common to see more expressive growth as the y/y basis came without this capacity addition. For the realized price, we project R\$7,462/t (+5.3% q/q; +10.0% y/y), with a slight increase driven by the pass-through announced by the company for some specific segments of the paper line.

Net revenue should grow low single digit q/q. We estimate consolidated net revenue of R\$11.7bn Genial Est. (+2.5% q/q; +31.7% y/y). The figure reflects a slightly lower level of pulp shipments (-0.9% q/q) and lower realized prices in USD (-4.7% q/q), partially offset by the appreciation of the USD/BRL FX rate (+6.2% q/q) and higher paper sales (+3.0% q/q). In the year-on-year comparison, although the BHKP reference curve did indeed fall at the end of 3Q24, we believe that the realized pulp price this quarter will be substantially higher than that observed in the same period last year, given the prolonged pulp downcycle during 2Q23 and 3Q23, which reached ~US\$480/t vs. US\$570 today (comparing the bottom of the two cycles). This would justify the more expressive growth in pulp net revenue y/y, which should reach R\$9.2bn Genial Est. (-0.1% q/q; +39.7% y/y). For the paper segment, our projection is R\$2.5bn Genial Est. (+13.3% q/q; +9.2% y/y).

Table 4. Revenue Suzano (3Q24 Genial Est.)

(R\$ millions)	3Q24E Genial Est.	2Q24 Reported	% q/q	3Q23 Reported	% y/y
Net Revenue	11.786	11.495	2,5%	8.948	31,7%
Pulp	9.228	9.236	-0,1%	6.605	39,7%
Paper	2.559	2.259	13,3%	2.343	9,2%

Source: Suzano, Genial Investimentos

COGS/t will be pressured by one-offs and stoppages. The fall in the price of Brent crude oil to US\$78.7 (-6.3% q/q) should ease fuel costs, taking pressure off the cost per km in wood transportation. We expect COGS/t ex. stops to reach R\$824/t Genial Est. (-0.4% q/q; -4.3% y/y). However, this reduction in expenses will be erased by (i) one-off costs related to the Cerrado project, such as the start-up of the boilers and lignin consumption, factors that should add ~R\$130mn Genial Est to COGS. In addition, (ii) there will be the effect of scheduled stoppages at the Limeira (SP), Suzano (SP) and Veracel (BA) units. We therefore project COGS/t including stoppages of R\$870/t Genial Est. (+2.4% q/q; -6.9% y/y).

EBITDA is likely to be flat q/q. We project a consolidated adjusted EBITDA of R\$6.2bn Genial Est. (+0.1% q/q; +70.4% y/y), in line with the previous quarter and growing more robustly y/y due to the performance of the pulp segment, in the face of an expected realized price at higher levels than the bearish cycle seen last year. Pulp EBITDA is marked in our model at R\$5.2bn (-4.9% q/q; +80.9% y/y). The paper segment will help balance the sequential result. The combination of higher volume in the domestic market for paper and the depreciation of the BRL favoring exports, should be reflected in an EBITDA of R\$1bn Genial Est. (+36.9% q/q; +31.6% y/y).



Table 5. EBITDA Suzano (3Q24 Genial Est.)

(R\$ millions)	3Q24E Genial Est.	2Q24 Reported	% q/q	3Q23 Reported	% y/y
Adjusted EBITDA Pulp	6.296 5.268	6.288 5.537	0,1% -4.9%	3.695 2.912	70,4% 80,9%
Paper	1.028	750	36,9%	783	31,3%

Source: Suzano, Genial Investimentos

Net income aided by the financial result. For the last line, we project a net income of R\$2.8bn Genial Est., reversing the accounting loss, both from last quarter and from the same period last year, through an estimated financial result of +R\$748mn, the consequence of the reduction in the USD/BRL EoP FX rate to 5.45 vs. 5.56 in 2Q24. Although the average USD/BRL FX rate had a bullish bias during the quarter, standing at 5.54 (+6.3% q/q), the value on the day of closing was lower vs. 2Q24 by -1.9% q/q.

We would like to point out that for (i) calculating the exchange rate variation of the debt held in USD and for (ii) measuring profit/loss on currency hedging operations, both lines which affect the financial result, we used the EoP exchange rate and not the average for the quarter. As in 2Q24 the EoP exchange rate had risen compared to 1Q24, the financial result line was negatively impacted, which caused the company to record a strong accounting loss. It is important to mention that there is no effect on cash flow from these variations, neither when they are negative (as was the case in 2Q24) nor when they are positive (as should be the case in 3Q24).

Table 6. Income Statement Suzano (3Q24 Genial Est.)

(R\$ millions)	3Q24E Genial Est.	2Q24 Reported	% q/q	3Q23 Reported	% y/y
Net Revenue	11.786	11.495	2,5%	8.948	31,7%
COGS	(6.169)	(6.093)	-1,2%	(6.104)	1,1%
Adjusted EBITDA	6.296	6.288	0,1%	3.695	70,4%
EBITDA Margin (%)	53,4%	54,7%	-1,28p.p	41,3%	12,12p.p
EBIT	4.118	4.615	-10,8%	1.683	144,6%
EBIT Margin (%)	34,9%	40,1%	-5,2p.p	18,8%	16,13p.p
D&A	(2.177)	(2.129)	2,3%	(1.940)	12,3%
Financial Result	748	(11.074)	106,8%	(3.494)	121,4%
Net Income	2.836	(3.764)	-	(729)	-
Net Margin (%)	24,1%	-32,7%	-	-8,1%	-

Source: Suzano, Genial Investimentos



Our take on Suzano

Important acquisitions. The company made two small strategic acquisitions which represent a cash flow consumption of -R\$3.4bn. These are: (i) Acquisition of land from BTG Pactual, with 70k ha in Mato Grosso do Sul (MS), the productive portion being 71% of the total area. The objective is self-sufficiency in the supply of wood in strategic areas, representing an outlay of -R\$2.2bn, closed on August 1. (ii) A 15% stake in Lenzing, aimed at expanding its operations in the textile industry based on pulp microfibers, reinforcing the company's strategy of diversification in gradual movements. The deal was closed for ~€230mn (~R\$1.3bn) on July 31. Suzano maintains the possibility of increasing its stake in Lenzing in the future.

FCFE will feel the negative impact of the payments in 3Q24. For now, according to our assessment, neither of the two acquisitions mentioned above, nor that of Pactiv Evergreen for US\$110mn (~R\$600mn), will substantially alter the company's capital structure, as was the great fear of investors during the period in which Suzano negotiated the potential purchase of International Paper (IP), from the beginning of May to the end of June. The company closed 2Q24 with a cash and equivalents position of ~R\$14bn, more than enough to pay for the acquisitions and continue on the deleveraging path in 2025, which we expect to reach **3x Net Debt/EBITDA 25E** vs. 3.5x in 2Q24. We wait for a **FCFE** of **-R\$3.1bn** in 3Q24, partially offset by the issuance of +US\$167m (~R\$940m) in 3-year "panda bonds". The original currency is RMB, since the issue was made possible by Suzano's international subsidiary in China and took place in August. The issue was the first part of a tranche with a total of ~US\$2.8bn (~R\$15.7bn).

The worst phase of this pulp cycle seems to have already happened. Our perception is that the bearish cycle for pulp has already bottomed out at ~US\$560/t, with demand showing more benign signs from September onwards, even with the plant in Ribas do Rio Pardo (MS) having been ramping up since July, which would have once again instilled the fear of oversupply, a fact that has brought prices down intensely over the last 2-3M. The Cerrado project, as Suzano calls it, will become the largest BHPK manufacturing plant in the world, delivering ~2.5Mtpy when it reaches full capacity. Another relevant project is that of the Liansheng company, with a mega mill in Fujian province (FJ), inaugurating ~1.6Mtpy of pulp production and which came online in October.

Capacity cut and partial improvement in market sentiment. With the ramp-up of these two projects (Fujian + Cerrado) still in its initial phase, plus Suzano's capacity cut of ~4% of production, we expect the market to gradually resume its perception of a balance between supply and demand, which should improve sentiment towards BHKP prices. Clearly, the cutback promoted by Suzano, which will have its effect until the end of the year, would not alone put an end to the fear of oversupply. On the other hand, the company's announcement in October that it was withdrawing volume from old machines could influence other players to reduce production, as happened last year, in a very similar move. In our view, the price of BHKP China will remain close to the current level of ~US\$570/t until the end of 4Q24, with a potential upside for 1H25.



BHKP prices are expected to uplift by 2Q25. As we mentioned earlier, we project a short-term recovery for the price of BHKP China pulp to ~U\$\$650/t Genial Est. by 2Q25, given that we see the current spot price approaching the marginal cost of production (~U\$\$500-550/t). Historically, we observe that when this situation occurs, the bearish cycle tends to bottom out in ~3M (having started in August), before prices return to stability and readjustments can be renegotiated for the client portfolio with the futures market already pricing an improvement in the BHKP price curve. Looking back, between 2H23 and 1Q24, combined with a context of supply disruption (mainly in Finland), Suzano promoted 9 rounds of price increases, leaving the bottom of the previous cycle for a strong upward trend that lasted until the middle of this year. However, in August the pulp price began a new downward cycle, returning to price the entry of Cerrado and other capacity addition projects, with the issues in Finland normalized.

Cerrado project should start generating results in 4Q24. The Cerrado Project began operations in July and is expected to produce +900Kt by 2024E (700Kt of which will be sales). As the ramp-up is not linear, almost none of this volume should be seen in 3Q24. However, in 4Q24 the 700Kt of shipments should be part of the result almost in its entirety (we estimate ~90% or 630Kt). After this ramp-up period, the project has a capacity of +2.55Mtpy (+23% vs. current capacity). We estimate that the plant in Ribas do Rio Pardo (MS) will generate incremental EBITDA of ~R\$4b Genial Est. in 2025-2026E and represent an improvement in operational efficiency, indicating a reduction in COGS/t that should reach ~R\$500/t in 2025E (vs. R\$800/t currently).

Waiting for better days to come. With the ramp-up of the Cerrado project over the next year, we estimate a 25E FCF yield of 13% (vs. ~9% in 2024). We believe this will result in a clear deleveraging process (3x Net Debt/EBITDA 25E vs. 3.5x in 2Q24), reinforcing the company's good fundamentals, especially from 2025 onwards. This improvement in operational efficiency will be seen in the expansion of FCF, mainly due to the reduction in COGS/t to ~R\$500/t (vs. R\$800/t currently). We do not believe that this efficiency gain is currently reflected in the market valuation. We see Suzano heavily discounted, trading at an EV/EBITDA 25E of 5.4x (vs. historical average of 7x), which leads us to reiterate our BUY rating, with a 12M Target Price of R\$72.00, reflecting an upside of +29.10%



Appendix: Suzano

Figure 1. Suzano - Income Statement in R\$ Millions (Genial Est. 2024-2028)

Income Statement	2024E	2025E	2026E	2027E	2028E
Net Revenue	44.048	48.367	54.667	55.213	58.295
(-) COGS	(24.588)	(26.977)	(27.754)	(26.958)	(26.545)
Gross Profit	19.461	21.390	26.913	27.927	31.466
(-) Expenses	(5.372)	(5.900)	(6.741)	(6.900)	(7.267)
Adjusted EBITDA	23.046	24.751	29.428	30.358	33.250
(-) D&A	(8.537)	(9.261)	(9.256)	(9.003)	(8.767)
EBIT	14.510	15.491	20.172	21.027	24.199
(+/-) Financial Result	(9.717)	(2.811)	(3.660)	(2.049)	(821)
(-) Taxes	(1.495)	(5.290)	(6.888)	(7.918)	(9.752)
Net income	3.298	7.390	9.623	11.061	13.625
Profitability					
Net margin (%)	7,49%	15,28%	17,60%	20,03%	23,37%

Figure 2. Suzano- Cash Flow in R\$ Millions (Genial Est. 2024-2028)

Cash Flow (FCFF)	2024E	2025E	2026E	2027E	2028E
Net Revenue	44.048	48.367	54.667	55.213	58.295
(-) COGS	(24.588)	(26.977)	(27.754)	(26.958)	(26.545)
Adjusted EBITDA	23.046	24.751	29.428	30.358	33.250
EBIT	14.510	15.491	20.172	21.027	24.199
(-) Taxes	(1.495)	(5.290)	(6.888)	(7.918)	(9.752)
(+) D&A	8.537	9.261	9.256	9.003	8.767
(+/-) ∆ WK	(1.832)	(1.116)	(996)	341	(738)
(-) Capex	(11.557)	(9.996)	(7.470)	(7.178)	(7.316)
FCFF	8.163	8.350	14.073	15.603	15.443



Disclosure Section

1. GENERAL DISCLAIMER

This report has been produced by the research department ("Genial Institutional Research") of Genial Institutional Corretora de Câmbio, Títulos e Valores Mobiliários S.A. ("GENIAL INSTITUTIONAL CCTVM"). Genial Institutional is a brand name of Genial Investimentos CCTVM.

Genial Rating

	Definition	Coverage
Buy	Expected return above +10% in relation to the Company's sector average	49%
Neutral	Expected return between +10% and -10% relative to the Company's industry average	41%
Sell	Expected return below -10% in relation to the Company's sector average	5%
under Review	Under review	5%

This report may not be reproduced or redistributed to any other person, in whole or in part, for any purpose, without the prior written consent of GENIAL INSTITUTIONAL CCTVM. GENIAL INSTITUTIONAL CCTVM accepts no liability whatsoever for the actions of third parties in this respect.

This research report is for distribution only under such circumstances as may be permitted by applicable law. This research report has no regard to the specific investment objectives, financial situation or particular needs of any specific recipient, even if sent only to a single recipient. This research report is not guaranteed to be a complete statement or summary of any securities, markets, reports or developments referred to in this research report. Neither GENIAL INSTITUTIONAL CCTVM nor any of its directors, officers, employees or agents shall have any liability, however arising, for any error, inaccuracy or incompleteness of fact or opinion in this research report or lack of care in this research report's preparation or publication, or any losses or damages which may arise from the use of this research report

GENIAL INSTITUTIONAL CCTVM may rely on information barriers, such as "Chinese Walls" to control the flow of information within the areas, units, divisions, groups, or affiliates of GENIAL INSTITUTIONAL CCTVM.

Investing in any non-U.S. securities or related financial instruments (including ADRs) discussed in this research report may present certain risks. The securities of non-U.S. issuers may not be registered with, or be subject to the regulations of, the U.S. Securities and Exchange Commission. Information on such non-U.S. securities or related financial instruments may be limited. Foreign companies may not be subject to audit and reporting standards and regulatory requirements comparable to those in effect within the United States.

The value of any investment or income from any securities or related financial instruments discussed in this research report denominated in a currency other than U.S. dollars is subject to exchange rate fluctuations that may have a positive or adverse effect on the value of or income from such securities or related financial instruments.

Past performance is not necessarily a guide to future performance and no representation or warranty, express or implied, is made by GENIAL INSTITUTIONAL CCTVM with respect to future performance. Income from investments may fluctuate. The price or value of the investments to which this research report relates, either directly or indirectly, may fall or rise against the interest of investors. Any recommendation or opinion contained in this research report may become outdated as a consequence of changes in the environment in which the issuer of the securities under analysis operates, in addition to changes in the estimates and forecasts, assumptions and valuation methodology used herein.

The locally listed shares of Brazilian companies may only be purchased by investors outside of Brazil who are "eligible investors" within the meaning of applicable laws and regulations.



2. ANALYST(S) DISCLOSURES AND CERTIFICATION

The principal analyst, IGOR GUEDES, is responsible for the content of this report and for meeting the requirements of Securities and Exchange Commission of Brazil (CVM) Instruction 598/2018.

The analysts hereby certify that the views expressed in this research report accurately reflect their personal views about the subject securities or issuers and it was prepared in an independent manner, including with respect to the person and to GENIAL INSTITUTIONAL.

The analyst hereby certifies that he (she) has no connection with any individual who works for the issuer(s) discussed in this report.

The analyst hereby certifies that he (she), or his (her) spouse or companion, either directly or indirectly, in his or her own name or on behalf of a third party, does not hold any of the securities covered in this report.

The analyst hereby certifies that he (she), or his (her) spouse or companion, is not directly or indirectly involved in the purchase, disposal or brokering of the securities covered in this report.

The analyst hereby certifies that he (she), or the his (her) spouse or companion, has no direct or indirect financial interest in the issuer covered in this report (other than trading shares in investment funds, in which the analyst cannot control, directly or indirectly, the administration or management of the fund, or which do not concentrate investments in sectors or companies that are covered by reports produced by the analyst).

The analyst's compensation is, directly or indirectly, determined by income from GENIAL INSTITUTIONAL's business and financial operations.

In addition, the analysts certify that no part of their compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in this research report.

The compensation of the analyst who prepared this report is determined by research management and senior management (not including investment banking). Analyst compensation is not based on investment banking revenues, however, compensation may relate to the revenues of GENIAL INSTITUTIONAL CCTVM, its affiliates and/or subsidiaries as a whole, of which investment banking, sales and trading are a part. Compensation paid to analysts is the sole responsibility of GENIAL INSTITUTIONAL CCTVM.

The analyst hereby certifies that he (she), or his (her) spouse or companion, does not serve as an officer, director, or advisory board member of the subject company.

The principal analyst is responsible for the content of this report and for meeting the requirements of Securities and Exchange Commission of Brazil (CVM) Instruction 598/2018.

Unless otherwise stated, the individuals listed on the cover page of this report are research analysts.



3. ADDITIONAL DISCLOSURE

- (i) This document was prepared by GENIAL INSTITUTIONAL Research and is hereby supplied for the sole purpose of providing information about companies and their securities.
- (ii) The information contained herein is provided for informational purposes only and does not constitute an offer to buy or sell, and should not be construed as a solicitation to acquire, any securities in any jurisdiction. The opinions expressed herein regarding the purchase, sale or holding of securities, or with respect to the weighting of such securities in a real or hypothetical portfolio, are based on careful analysis by the analysts who prepared this report and should not be construed by current or future investors as recommendations for any particular investment decision or action. The investor's final decision should be made considering all of the risks and fees involved. This report is based on information obtained from primary or secondary public sources, or directly from companies, and is combined with estimates and calculations prepared by GENIAL INSTITUTIONAL CCTVM. This report does not purport to be a complete statement of all material facts related to any company, industry, security or market strategy mentioned. The information has been obtained from sources believed to be reliable, but GENIAL INSTITUTIONAL CCTVM does not make any express or implied representation or warranty as to the completeness, reliability or accuracy of such information. The information, opinions, estimates and projections contained in this document are based on current data and are subject to change. Prices and availability of financial instruments are indicative only and subject to change without notice. GENIAL INSTITUTIONAL CCTVM is under no obligation to update or revise this document or to advise of any changes in such data.
- (iii) The securities discussed in this report, as well as the opinions and recommendations contained herein, may not be appropriate for every type of investor. This report does not take into account the investments objectives, financial situation or particular needs of any particular investor. Investors who wish to buy, sell or invest in securities that are covered in this report should seek independent financial advice that takes individual characteristics and needs into consideration, before making any investment decision with respect to the securities in question. Each investor should make independent investment decisions after carefully analyzing the risks, fees and commissions involved. If a financial instrument is denominated in a currency other than an investor's currency, changes in exchange rates may adversely affect the price or value of, or the income derived from the financial instrument, and the reader of this report assumes all foreign exchange risks. Income from financial instruments may vary, and therefore their price or value may rise or fall, either directly or indirectly. The information, opinions and recommendations contained in this report do not constitute and should not be interpreted as a promise or guarantee of a particular return on any investment. Past performance does not necessarily indicate future results, and no representation or warranty, express or implied, is made herein regarding future performance. Therefore, GENIAL INSTITUTIONAL CCTVM, its affiliated companies, and the analysts involved in this report take no responsibility for any direct, indirect or consequential loss resulting from the use of the information contained in this report, and anyone using this report undertakes to irrevocably indemnify GENIAL INSTITUTIONAL CCTVM and its affiliates from any claims and demands.
- (iv) Prices in this report are believed to be reliable as of the date on which this report was issued and are derived from one or more of the following: (i) sources as expressly specified alongside the relevant data; (ii) the quoted price on the main regulated market for the security in question; (iii) other public sources believed to be reliable; or (iv) GENIAL INSTITUTIONAL CCTVM's proprietary data or data available to GENIAL INSTITUTIONAL CCTVM.



- (v) No representation or warranty, either express or implied, is provided in relation to the accuracy, completeness or reliability of the information contained herein, except with respect to information concerning GENIAL INSTITUTIONAL CCTVM, its subsidiaries and affiliates. In all cases, investors should conduct their own investigation and analysis of such information before taking or omitting to take any action in relation to securities or markets that are analyzed in this report.
- (vi)GENIAL INSTITUTIONAL CCTVM makes no representations herein that investors will obtain profits. GENIAL INSTITUTIONAL CCTVM will not share with investors any investment profits nor accept any liability for any investment losses. Investments involve risks and investors should exercise prudence in making their investment decisions. GENIAL INSTITUTIONAL CCTVM accepts no fiduciary duties on behalf of recipients of this report and in communicating this report is not acting in a fiduciary capacity. This report is not to be relied upon in substitution for the exercise of recipient's independent judgment. Opinions, estimates, and projections expressed herein constitute the current judgment of the analyst responsible for the substance of this report as of the date on which the report was issued and are therefore subject to change without notice and may differ or be contrary to opinions expressed by other business areas or groups of GENIAL INSTITUTIONAL CCTVM as a result of using different assumptions and criteria. The information, opinions and recommendations contained in this report do not constitute and should not be interpreted as a promise or guarantee of a particular return on any investment.
- (vii)Because the personal views of analysts may differ from one another, GENIAL INSTITUTIONAL CCTVM, its subsidiaries and affiliates may have issued or may issue reports that are inconsistent with, and/or reach different conclusions from, the information presented herein. Any such opinions, estimates, and projections must not be construed as a representation that the matters referred to therein will occur. Prices and availability of financial instruments are indicative only and subject to change without notice. Income from financial instruments may vary, and therefore their price or value may rise or fall, either directly or indirectly.
- (viii) This document may not be: (a) photocopied or duplicated in any manner, in whole or in part, and/or (b) distributed without GENIAL INSTITUTIONAL CCTVM's prior written consent. GENIAL INSTITUTIONAL CCTVM accepts no liability whatsoever for the actions of third parties in this respect.
- (ix) Neither GENIAL INSTITUTIONAL CCTVM nor any of its affiliates, nor any of their respective directors, employees or agents, accepts any liability for any loss or damage arising out of the use of all or any part of this report.
- (x) GENIAL INSTITUTIONAL CCTVM (or its affiliates, officers, directors or employees) may, to the extent permitted by law, have acted upon or used the information herein contained before the publication of this report and may have a position in securities issued by the companies mentioned herein and may make a market or act as a principal in any transactions in any such securities. Genial Institutional may from time to time perform investment banking or other services to, or solicit investment banking or other business from, the companies mentioned herein.



4. IMPORTANT DISCLOSURES FOR U.S. PERSONS

This research report was prepared by Genial Institutional CCTVM, a company authorized to engage in securities activities in Brazil. Genial Institutional CCTVM is not a registered broker-dealer in the United States and, therefore, is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. This research report is provided for distribution to "major U.S. institutional investors" in reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act") and is not being provided pursuant to a soft-dollar arrangement.

Any U.S. recipient of this research report wishing to effect any transaction to buy or sell securities or related financial instruments based on the information provided in this research report should do so only through Brasil Plural Securities LLC, a registered broker dealer in the United States with an office at 545 Madison Ave., New York, NY 10022, (212) 897-3737. Under no circumstances should any recipient of this research report effect any transaction to buy or sell securities or related financial instruments through Genial Institutional CCTVM.

Brasil Plural Securities LLC accepts responsibility for the contents of this research report, subject to the terms set out below, to the extent that it is delivered to a U.S. person other than a major U.S. institutional investor.

The analyst whose name appears in this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA") and may not be an associated person of Brasil Plural Securities LLC and, therefore, may not be subject to applicable restrictions under FINRA Rules on communications with a subject company, public appearances and trading securities held by a research analyst account.

The disclosures contained in research reports produced by GENIAL INSTITUTIONAL CCTVM and distributed by Brasil Plural Securities LLC in the U.S. shall be governed by and construed in accordance with U.S. law. This report may not be reproduced or redistributed to any other person, in whole or in part, for any purpose, without the prior written consent of GENIAL INSTITUTIONAL CCTVM. Additional information relative to the financial instruments discussed in this report is available upon request.

UK Disclaimer:

- (i) This document is STRICTLY CONFIDENTIAL to the recipient, may not be distributed to the press or other media and may not be reproduced in any form. this document is directed only at persons who are "INVESTMENT PROFESSIONALS" falling within article 19(5) of the FSMA 2000 (FINANCIAL PROMOTION) ORDER 2005, or HIGH NET WORTH BODIES falling within ARTICLE 49(2) of that order (together THE "RELEVANT PERSONS"). This document must not be acted on or relied on by persons who are not RELEVANT PERSONS.
- (ii) The distribution of this document in other jurisdictions may be restricted by law and persons into whose possession this document comes should inform themselves about, and observe, any such restrictions. Any failure to comply with these restrictions may constitute a violation of the laws of any such other jurisdiction.

Copyright 2023 GENIAL GENIAL INSTITUTIONAL CCTVM