

Equity Research

BTG Pactual Global Research

Latin America Food & Beverages Company Note 13 May 2020

Alicorp

1Q20: a good Q despite one-time impact from Covid-19

EBITDA grew 19% y/y excluding non-recurring expenses; ND/EBITDA at 2.1x

Alicorp reported strong recurring results, as the company's core consumer goods business benefitted from increased demand for its products at the end of the quarter due to the Covid-19 pandemic. Sales grew 10% y/y (volume: +11.5% y/y), 3.5% above us, driven mainly by double-digit growth in consumer goods Peru. The gross margin climbed 1.1pp y/y boosted partly by Argentina and Brazil. Reported EBITDA declined 13.5% y/y, but excluding PEN\$113mn in non-recurring expenses mostly related to the impact of Covid 19 (including a PEN48mn impairment in Brazil and PEN\$37mn in bad debt provisions), EBITDA climbed 19% y/y, 10% above us. The stronger-than-expected recurring result stemmed mainly from strong results in consumer goods Peru. Net income declined 90% y/y but recurring net income increased 12% y/y, 10% above us. The company had PEN\$1.5bn in cash as of the end of March, 1.5x its short term debt, while net debt/EBITDA closed the quarter at 2.1x, down from 2.4x in 4Q19.

CG: Peru drives operating growth, as top line accelerates across countries

In CG Peru, sales grew 12.5% y/y (volume: +17.6% y/y) partly driven by the consolidation of Intradevco at the end of January 2019, as well as strong sales of food (oils and pastas) and homecare (cleaning products) during the second half of March. The gross margin declined 20bps y/y due mainly to a higher proportion of sales to the modern channel and a lower-margin product mix. Recurring EBITDA grew 16% y/y (margin: +0.2pp). In Bolivia, sales rose 10% y/y, also boosted by homecare and food products. But recurring EBITDA decreased 12% y/y (margin: 2.8pp) mainly as a result of gross margin pressure on the back of higher commodity prices and growth of value categories. In Brazil, sales grew 5.7% y/y in BRL, (volume: 4.8%), but fell 8.9% y/y in PEN due to the BRL devaluation. Gross margin expanded 1.1pp y/y driven by higher prices, while recurring EBITDA (excluding the impairment provision) was PEN\$3mn (margin: 3.5%), up from a PEN\$4mn loss in 1Q19. In Argentina, sales (in PEN) jumped 22% y/y, with volume increasing 6.9% y/y, while EBITDA was PEN\$14mn (margin: 13.1%) up from a PEN\$2mn loss in 1Q19.

Valuation	12/2018	12/2019	12/2020E	12/2021E	12/2022E
RoIC (EBIT) %	18.5	16.0	16.3	17.5	18.8
EV/EBITDA	11.2	9.3	7.0	6.3	5.7
P/E	18.4	16.4	11.1	10.0	8.9
Net dividend yield %	2.5	2.6	3.4	4.1	4.7

Financials (PENmn)	12/2018	12/2019	12/2020E	12/2021E	12/2022E
_ ,					
Revenues	8,288	9,875	10,489	11,136	11,840
EBITDA	940	1,212	1,376	1,463	1,560
Net Income	453	480	584	650	728
EPS (PEN)	0.53	0.56	0.68	0.76	0.85
Net DPS (PEN)	0.24	0.24	0.26	0.31	0.35
Net (debt) / cash	(2,250)	(3,387)	(3,067)	(2,710)	(2,333)

Source: Company reports, Bovespa, BTG Pactual S.A. estimates. / Valuations: based on the last share price of the year; (E) based on a share price of PEN7.60, on 13 May 2020.

ANALYST CERTIFICATION AND REQUIRED DISCLOSURES BEGIN ON PAGE 5

 Rating
 Buy

 12m Price Target
 PEN13.00/US\$3.78

 Price
 PEN7.60/US\$2.21

RIC: ALI.LM, BBG: ALICORC1 PE

Trading Data and Return Forecasts

52-wk range	PEN10.90-6.80/US\$3.31-1.97
Market cap.	PEN6,495m/US\$1,888m
Shares o/s (m)	854.6
Free float	54%
Avg. daily volume('000 Share	es) 477
Avg. daily value (PEN m)	3.6
Forecast price appreciation	+71.1%
Forecast dividend yield	3.4%
Forecast stock return	+74.4%



Alonso Aramburu

New York – BTG Pactual US Capital LLC alonso.aramburu@btgpactual.com +1 646 924 2471

Thiago Duarte

Brazil – Banco BTG Pactual S.A. thiago.duarte@btgpactual.com +55 11 3383 2366

Andres Moncada

Colombia - BTG Pactual andres.moncada@btgpactual.com +57 (1) 307 8090

Banco BTG Pactual S.A. does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. Any U.S. person receiving this report and wishing to effect any transaction in a security discussed in this report should do so with BTG Pactual US Capital, LLC at 212-293-4600, 601 Lexington Avenue. 57th Floor, New York NY 10022.

1Q20 earnings summary

Aqua-feed: bad debt provision weighed on EBITDA; crushing EBITDA recovers

Sales in aqua-feed increased 5.3% y/y with volume jumping 9.7% y/y driven mainly by the salmon segment, where strikes affected production in 1Q19. The gross margin expanded 30bps y/y due to lower commodity prices, but EBITDA declined 13% y/y, impacted by a \$3mn bad debt provision and a US\$1mn donation related to Covid-19. Excluding such expenses, EBITDA would have grown 11% y/y. In crushing, sales rose 17% y/y (volume: +14% y/y) and EBITDA increased to US\$3mn from a US\$3mn loss in 1Q19.

B2B: operating results impacted by bad debt provision

The B2B segment posted sales growth of 4.0% y/y (volume: +6.0%) despite the country lockdown in the second half of March, which impacted the food service segment. The company booked a PEN\$21mn bad debt provision to account for the impact of Covid-19 on the business, which drove a 60% y/y decline in EBITDA. Excluding this provision and a PEN\$3mn donation, also related to Covid-19, EBITDA increased 10% y/y (margin: +0.7pp). Results in 2Q should show a bigger impact on B2B from weaker food service sales (~36% of B2B) as the quarantine has been extended through May 25.

A good place to be during the crisis, and beyond

Alicorp's results show the strong competitive positioning of the business despite some initial negative impact from Covid-19. With lockdowns being extended across countries, as well as in its main market, Peru, demand for Alicorp's consumer goods products should remain strong in the short term. The company also has a solid balance sheet and a strong liquidity position. Some segments will suffer, such as food service and aqua-feed, and the devaluation of BRL will continue to weigh on results from Brazil, but with our view that the crisis will last at least until the first half of 2021, we believe the stock is one of only a few that provide relatively good earnings visibility. We maintain a positive view on the stock.

Table 1: 1Q20 earnings summary, PENmn

Key Figures	1Q20A	1Q20E	Α/E	4Q19	Q/Q	1Q19	Y/Y
Net Income	10	103	(90,7%)	123	(92,2%)	92	(89,5%)
EBITDA	211	283	(25,5%)	358	(41,1%)	244	(13,5%)
EPS	0,01	0,12	(90,7%)	0,14	(92,2%)	0,11	(89,5%)

Summary Income Statement	1Q20A	1Q20E	Α/E	4Q19	Q/Q	1Q19	Y/Y
Sales	2.448	2.365	3,5%	2.592	(5,5%)	2.226	10,0%
Cost of Sales	-1.822	-1.781	2,3%	-1.949	(6,5%)	-1.681	8,4%
Gross Profit	626	584	7,2%	643	(2,6%)	545	15,0%
SG&A	-435	-365	19,3%	-353	23,2%	-353	23,2%
Other Operating Expenses/Income	-64	-2	NA	-45	42,4%	-8	692,4%
EBIT	128	218	(41,2%)	245	(47,9%)	184	(30,3%)
Net Financial Expenses & Other	-67	-69	(3,0%)	-76	(11,6%)	-37	79,9%
Pretax Profit	61	149	(58,9%)	170	(64,0%)	146	(58,3%)
Taxes	-52	-45	15,5%	-47	9,2%	-53	(2,2%)
Minority Interest	0	-1	NA	0	NA	-2	NA
Net Income	9,6	103,1	(90,7%)	122,5	(92,2%)	91,6	(89,5%)
Effective Tax Rate	84,3%	30,0%		27,8%		36,0%	
EBITDA	211	283	(25,5%)	358	(41,1%)	244	(13,5%)

Margins	1Q20A	1Q20E	Α/E	4Q19	Q/Q	1Q19	Y/Y
			in bps		in bps		in bps
Gross Margin	25,6%	24,7%	89	24,8%	78	24,5%	112
SG&A / Sales	17,8%	15,4%	235	13,6%	414	15,9%	190
Total Expenses / Sales	20,4%	15,5%	486	15,3%	502	16,2%	414
EBIT Margin	5,2%	9,2%	-398	9,5%	-424	8,2%	-302
EBITDA Margin	8,6%	12,0%	-336	13,8%	-519	11,0%	-234

Sales by Segment	1Q20A	1Q20E	Α/E	4Q19	Q/Q	1Q19	Y/Y
Consumer	1.272	1.221	4,2%	1.329	(4,3%)	1.147	10,9%
B2B	389	391	(0,6%)	435	(10,6%)	374	4,0%
Animal Nutrition	527	532	(1,0%)	579	(9,0%)	490	7,6%
Crushing	255	221	15,5%	249	2,5%	215	18,7%

Source: Company reports and BTG Pactual

Income Statement (PENmn)	12/2015	12/2016	12/2017	12/2018	12/2019	12/2020E	12/2021E	12/2022E
Revenue	6,580	6,629	7,101	8,288	9,875	10,489	11,136	11,840
Operating expenses (ex depn)	(5,864)	(5,827)	(6,177)	(7,374)	(8,613)	(9,105)	(9,666)	(10,272)
EBITDA (BTG Pactual)	693	772	870	940	1,212	1,376	1,463	1,560
Depreciation	(134)	(140)	(130)	(153)	(260)	(261)	(263)	(264)
Operating income (EBIT, BTG Pactual)	560	632	740	787	952	1,114	1,200	1,296
Other income & associates	0	0	0	0	0	0	0	0
Net Interest Abnormal items (pre-tax)	(327)	(169) 0	(100) 0	(111) 0	(250)	(272) 0	(259) 0	(246) 0
" ,	-	·	-	•		· ·	-	•
Profit before tax	233	463	641 (197)	(222)	701	(252)	941	1,050
Tax	(75)	(161)	(187)	(222)	(217)	(253)	(285)	(315)
Profit after tax	157	302 0	453	455	484	590	657	735 0
Abnormal items (post-tax) Minorities / pref dividends	0 (4)	0	0 0	0 (2)	0 (5)	0 (6)	0 (7)	(7)
'								
Net Income (local GAAP) Adjusted Net Income	154 154	302 302	453 453	453 453	480 480	584 584	650 650	728 728
Tax rate (%)	32	35	433 29	33	31	30	30	30
Per Share	12/2015	12/2016	12/2017	12/2018	12/2019	12/2020E	12/2021E	12/2022E
EPS (local GAAP)	0.18	0.35	0.53	0.53	0.56	0.68	0.76	0.85
EPS (BTG Pactual)	0.18	0.35	0.53	0.53	0.56	0.68	0.76	0.85
Net DPS	0.00	0.05	0.15	0.24	0.24	0.26	0.31	0.35
BVPS	2.57	2.99	3.37	3.76	4.01	4.44	4.89	5.39
Cash Flow (PENmn)	12/2015	12/2016	12/2017	12/2018	12/2019	12/2020E	12/2021E	12/2022E
Net Income	154 134	302 140	453 130	453 153	480 260	584 261	650 263	728 264
Depreciation Net change in working capital	642	335	37	(538)	(71)	(66)	(66)	(70)
Other (operating)	550	671	1,010	1,718	1,409	889	963	1,045
Net cash from operations	1,478	1,449	1,630	1,785	2,078	1,667	1,809	1,967
Cash from investing activities	(152)	(103)	(223)	(1,203)	(1,465)	(283)	(271)	(296)
Cash from financing activities	(922)	(665)	116	323	188	(419)	(469)	(502)
Bal sheet chge in cash & equivalents	(10)	161	770	(6)	(197)	120	157	176
Balance Sheet (PENmn)	12/2015	12/2016	12/2017	12/2018	12/2019	12/2020E	12/2021E	12/2022E
Cash and equivalents	113	273	1,043	1,037	840	960	1,117	1,293
Other current assets	2,306	1,951	2,245	3,067	3,651	3,872	4,114	4,370
Total current assets	2,418	2,225	3,288	4,104	4,491	4,832	5,230	5,664
Net tangible fixed assets	2,022	1,946	1,866	2,749	3,657	3,679	3,694	3,726
Net intangible fixed assets	0	1.003	1 001	0 447	2.005	0	0	2 422
Investments / other assets Total assets	1,773 6,214	1,963 6,134	1,961 7,115	2,417 9,271	3,095 11,242	3,104 11,614	3,113 12,038	3,123 12,513
Trade payables & other ST liabilities	1,550	1,531	1,862	2,145	2,659	2,813	2,989	3,176
Short term debt	523	255	962	963	804	604	404	204
Total current liabilities	2,074	1,786	2,824	3,108	3,463	3,417	3,393	3,380
Long term debt	1,566	1,376	1,000	2,325	3,423	3,423	3,423	3,423
Other long term liabilities	351	394	392	610	898	951	1,010	1,073
Total liabilities	3,991	3,556	4,216	6,043	7,784	7,791	7,826	7,875
Equity & minority interests	2,223	2,579	2,899	3,228	3,459	3,823	4,212	4,637
Total liabilities & equities	6,214	6,134	7,115	9,271	11,242	11,614	12,038	12,513

Company Profile:

Alicorp is Peru's largest consumer products company with a leading market share in most product categories. Peru's Grupo Romero controls 46% of the shares of the company. Sales are segmented in 3 groups: consumer goods, the main segment, industrial products and animal nutrition and are sold in more than 20 countries, with the majority of sales coming from Peru. The company's main international markets are Brazil, Argentina, Ecuador and Chile.

Financial ratios	12/2018	12/2019	12/2020E	12/2021E	12/2022E
EBITDA margin	11.3%	12.3%	13.1%	13.1%	13.2%
Operating margin	9.5%	9.6%	10.6%	10.8%	10.9%
Net margin	5.5%	4.9%	5.6%	5.8%	6.1%
RoE	14.9%	14.5%	16.2%	16.3%	16.6%
RoIC	18.5%	16.0%	16.3%	17.5%	18.8%
EBITDA / net interest	8.5x	4.8x	5.1x	5.7x	6.4x
Net debt / EBITDA	2.4x	2.8x	2.2x	1.9x	1.5x
Total debt / EBITDA	3.5x	3.5x	2.9x	2.6x	2.3x
Net debt / (net debt + equity)	41.1%	49.5%	44.5%	39.1%	33.5%

Source: Company reports and BTG Pactual estimates. Valuations: based on the last share price of that year(E) based on share price as of 13 May 2020

Required Disclosures

This report has been prepared by BTG Pactual US Capital LLC.

The figures contained in performance charts refer to the past; past performance is not a reliable indicator of future results.

BTG Pactual Rating	Definition	Coverage *1	IB Services *2
Buy	Expected total return 10% above the company's sector average.	55%	50%
Neutral	Expected total return between +10% and -10% the company's sector average.	43%	35%
Sell	Expected total return 10% below the company's sector average.	2%	0%

- 1: Percentage of companies under coverage globally within the 12-month rating category.
- 2: Percentage of companies within the 12-month rating category for which investment banking (IB) services were provided within the past 12 months.

Absolute return requirements

Besides the abovementioned relative return requirements, the listed absolute return requirements must be followed:

- a) a Buy rated stock must have an expected total return above 15%
- b) a Neutral rated stock can not have an expected total return below -5%
- c) a stock with expected total return above 50% must be rated Buy

Analyst Certification

Each research analyst primarily responsible for the content of this investment research report, in whole or in part, certifies that:

(i) all of the views expressed accurately reflect his or her personal views about those securities or issuers, and such recommendations were elaborated independently, including in relation to BTG Pactual US or its affiliates, as the case may be;

(ii) no part of his or her compensation was, is, or will be, directly or indirectly, related to any specific recommendations or views contained herein or linked to the price of any of the securities discussed herein

The research analyst responsible for this report is registered/qualified as a research analysts by FINRA.

It is possible that research analysts contributing to this report are employed by a non-US broker-dealer. In this case the analysts will not be registered/qualified as research analysts under FINRA rules and therefore will not be subject to the restrictions contained in the FINRA rules regarding communications with a subject company, public appearances, and financial interest in the securities of the subject company.

Part of the analyst compensation comes from the profits of BTG Pactual US or its affiliates as a whole and/or its affiliates and, consequently, revenues arisen from transactions held by BTG Pactual US or its affiliates.

Statement of Risk

Alicorp S.A.A. [PEALI] (Primary) - We believe the key operating risks are commodity exposure, integration of acquired companies and competition. Other risks include, but are not limited to, the volatile nature of Latin American currencies, particularly given Alicorp's exposure to many countries, regulatory and political risk. Valuations can also be affected by "contagion" from developments in other emerging markets.

Valuation Methodology

Alicorp S.A.A. [PEALI] (Primary) - Our 12-month target price for Alicorp is based on a discounted cash flow methodology which uses a WACC accounting for weighted country risks based on the company's geographical footprint, an equity risk premium of 5.5% and a perpetuity rate of 5%. We use further support from a comparables analysis.

Company Disclosures

Company Name	Reuters	12-mo rating	Price	Price date	
Alicorp 18, 19, 20, 21, 22	ALI.LM	Buy	PEN7.60	13-5-2020	

- 18. As of the end of the month immediately preceding the date of publication of this report, neither BTG Pactual US nor its affiliates or subsidiaries beneficially owned 1% or more of a class of this company's common equity securities.
- 19. Neither BTG Pactual US nor its affiliates or subsidiaries have managed or co-managed a public offering of securities for the company.
- 20. Neither BTG Pactual US nor its affiliates or subsidiaries engaged in market making activities in the subject company's securities at the time this research was report was published.
- 21. BTG Pactual US or its affiliates or subsidiaries have not received compensation for investment banking services from the companies in the past 12 months.
- 22. BTG Pactual US or its affiliates or subsidiaries do not expect to receive or intends to seek compensation for investment banking services from the companies within the next 3 months.

Alicorp



Source: BTG Pactual and Economatica. Prices as of 13 May 2020

Global Disclaimer

This report has been prepared by BTG Pactual US Capital LLC ("BTG Pactual US,"), a broker-dealer registered with the U.S. Securities and Exchange Commission and a member of the Financial Industry Regulatory Authority and the Securities Investor Protection Corporation, and BTG Pactual US is distributing this report in the United States. BTG Pactual US is an affiliate of Banco BTG Pactual S.A, a Brazilian regulated bank, responsible for the distribution of this report in Brazil. BTG Pactual US assumes responsibility for this research for purposes of U.S. law. Any U.S. person receiving this report and wishing to effect any transaction in a security discussed in this report should do so with BTG Pactual US at 212-293-4600, 601 Lexington Ave. 57th Floor, New York, NY 10022

This report is being distributed in the United Kingdom and elsewhere in the European Economic Area ("EEA") by BTG Pactual Europe LLP ("BTG Pactual UK"), which is authorized and regulated by the Financial Conduct Authority of the United Kingdom. This report may also be distributed in the United Kingdom and elsewhere in the EEA by BTG Pactual S.A. and/or BTG Pactual US. BTG Pactual UK has not: (ii) produced this report, (iii) substantially altered its contents, (iii) changed the direction of the recommendation, or (iv) disseminated this report prior to its issue by BTG Pactual US. BTG Pactual US.

BTG Pactual Chile S.A. Corredores de Bolsa ("BTG Pactual Chile"), formerly known as Celfin Capital S.A. Corredores de Bolsa, a Chilean broker dealer registered with Superintendencia Valores Y Seguros (SVS) in Chile and responsible for the distribution of this report in Chile and BTG Pactual Perú S.A. Sociedad Agente de Bolsa ("BTG Pactual Peru"), formerly known as Celfin Capital S.A. Sociedad Agente de Bolsa, registered with Superintendencia de Mercado de Valores (SMV) of Peru, is responsible for the distribution of this report in Peru. BTG Pactual Chile and BTG Pactual Peru acquisition by BTG Pactual S.A. was approved by the Brazilian Central Bank on November 14th, 2012.

BTG Pactual S.A. Comisionista de Bolsa ("BTG Pactual Colombia") formerly known as Bolsa y Renta S.A. Comisionista de Bolsa, is a Colombian broker dealer register with the Superintendencia Financeira de Colombia. BTG Pactual Colombia acquisition by BTG Pactual S.A. was approved by Brazilian Central Bank on December 21st, 2012.

References herein to BTG Pactual include Banco BTG Pactual S.A., BTG Pactual US Capital LLC, BTG Pactual Europe LLP, BTG Pactual Chile, BTG Pactual Peru and BTG Pactual Colombia

This report is for distribution only under such circumstances as may be permitted by applicable law. This report is not directed at you if BTG Pactual is prohibited or restricted by any legislation or regulation in any jurisdiction from making it available to you. You should satisfy yourself before reading it that BTG Pactual is permitted to provide research material concerning investments to you under relevant legislation and regulations.

Nothing in this report constitutes a representation that any investment strategy or recommendation contained herein is suitable or appropriate to a recipient's individual circumstances or otherwise constitutes a personal recommendation. It is published solely for information purposes, it does not constitute an advertisement and is not to be construed as a solicitation, offer, invitation or inducement to buy or sell any securities or related financial instruments in any jurisdiction. 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) BTG Pactual 's proprietary data or data available to BTG Pactual. All other information herein is believed to be reliable as of the date on which this report was issued and has been obtained from public sources believed to be reliable. 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 Banco BTG Pactual S.A., its subsidiaries and affiliates, nor is it intended to be a complete statement or summary of the securities, markets or developments referred to in the report. 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.

BTG Pactual does not undertake that investors will obtain profits, nor will it 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. BTG Pactual accepts no fiduciary duties to recipients of this report and in communicating this report is not acting in a fiduciary capacity. The report should not be regarded by recipients as a substitute for the exercise of their own judgment. Opinions, estimates, and projections expressed herein constitute the current programs to 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 BTG Pactual as a result of using different assumptions and criteria. Because the personal views of analysts may differ from one another, Banco BTG Pactual S.A., 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.

Research will initiate, update and cease coverage solely at the discretion of BTG Pactual Investment Bank Research Management. The analysis contained herein is based on numerous assumptions. Different assumptions could result in materially different results. The analyst(s) responsible for the preparation of this report may interact with trading desk personnel, sales personnel and other constituencies for the purpose of gathering, synthesizing and interpreting market information. BTG Pactual is under no obligation to update or keep current the information contained herein, except when terminating coverage of the companies discussed in the report. BTG Pactual relies on information barriers to control the flow of information contained in one or more areas within BTG Pactual, into other areas, units, groups or affiliates of BTG Pactual. 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 BTG Pactual Investment Bank as a whole, of which investment banking, sales and trading are a part.

The securities described herein may not be eligible for sale in all jurisdictions or to certain categories of investors. Options, derivative products and futures are not suitable for all investors, and trading in these instruments is considered risky. Mortgage and asset-backed securities may involve a high degree of risk and may be highly volatile in response to fluctuations in interest rates and other market conditions. Past performance is not necessarily indicative of future results. If a financial instrument is denominated in a currency other than an investor's currency, a change in rates of exchange may adversely affect the value or price of or the income derived from any security or related instrument mentioned in this report, and the reader of this report assumes any currency risk.

This report does not take into account the investment objectives, financial situation or particular needs of any particular investors. Investors should obtain independent financial advice based on their own particular circumstances before making an investment decision on the basis of the information contained herein. For investment advice, trade execution or other enquiries, clients should contact their local sales representative. Neither BTG Pactual nor any of its affiliates, nor any of interrespective 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. Notwithstanding any other statement in this report, BTG Pactual UK does not seek to exclude or restrict any duty or liability that it may have to a client under the "regulatory system" in the UK (as such term is defined in the rules of the Financial Conduct Authority).

Any prices stated in this report are for information purposes only and do not represent valuations for individual securities or other instruments. There is no representation that any transaction can or could have been effected at those prices and any prices do not necessarily reflect BTG Pactual internal books and records or theoretical model-based valuations and may be based on certain assumptions. Different assumptions, by BTG Pactual S.A., BTG Pactual US, BTG Pactual UK, BTG Pactual Chile and BTG Pactual Peru and Bolsa y Renta S.A. or any other source, may yield substantially different results.

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 BTG Pactual and BTG Pactual accepts no liability whatsoever for the actions of third parties in this respect.

Additional information relating to the financial instruments discussed in this report is available upon request.

BTG Pactual and its affiliates have in place arrangements to manage conflicts of interest that may arise between them and their respective clients and among their different clients. BTG Pactual and its affiliates are involved in a full range of financial and related services including banking, investment banking and the provision of investment services. As such, any of BTG Pactual or its affiliates may have a material interest or a conflict of interest in any services provided to clients by BTG Pactual or such affiliate. Business areas within BTG Pactual and among its affiliates operate independently of each other and restrict access by the particular individual(s) responsible for handling client affairs to certain areas of information where this is necessary in order to manage conflicts of interest or material interests.

Any of BTG Pactual and its affiliates may: (a) have disclosed this report to companies that are analyzed herein and subsequently amended this report prior to publication; (b) give investment advice or provide other services to another person about or concerning any securities that are discussed in this report, which advice may not necessarily be consistent with or similar to the information in this report; (c) trade (or have traded) for its own account (or for or on behalf of clients), have either a long or short position in the securities that are discussed in this report (and may buy or sell such securities), with the securities that are discussed in this report; and/or (d) buy and sell units in a collective investment scheme where it is the trustee or operator (or an adviser) to the scheme, which units may reference securities that are discussed in this report.

United Kingdom and EEA: Where this report is disseminated in the United Kingdom or elsewhere in the EEA by BTG Pactual UK, this report is issued by BTG Pactual UK only to, and is directed by BTG Pactual UK at, those who are the intended recipients of this report. This report has been classified as investment research and should not be considered a form of advertisement or financial promotion under the provisions of FSMA 2000 (Sect. 21(8)).

Dubai: This research report does not constitute or form part of any offer to issue or sell, or any solicitation of any offer to subscribe for or purchase, any securities or investment products in the UAE (including the Dubai International Financial Centre) and accordingly should not be construed as such. Furthermore, this information is being made available on the basis that the recipient acknowledges and understands that the entities and securities to which it may relate have not been approved, licensed by or registered with the UAE Central Bank, Emirates Securities and Commodities Authority or the Dubai Financial Services Authority or any other relevant licensing authority or governmental agency in the UAE. The content of this report has not been approved by or filed with the UAE Central Bank or Dubai Financial Services Authority.

United Arab Emirates Residents: This research report, and the information contained herein, does not constitute, and is not intended to constitute, a public offer of securities in the United Arab Emirates and accordingly should not be construed as such. The securities are only being offered to a limited number of sophisticated investors in the UAE who (a) are willing and able to conduct an independent investigation of the risks involved in an investment in such securities, and (b) upon their specific request. The securities have not been approved by or licensed or registered with the UAE Central Bank or any other relevant licensing authorities or governmental agencies in the UAE. This research report is for the use of the named addressee only and should not be given or shown to any other person (other than employees, agents or consultants in connection with the addressee's consideration thereof). No transaction will be concluded in the UAE and any enquiries regarding the securities should be made with BTG Pactual CTVM S.A. at +55 11 3383-2638, Avenida Brigadeiro Faria Lima, 3477, 14th floor, São Paulo, SP, Brazil, 04538-133.