

Coca-Cola

Q4 Preview: Tasting the Feeling of Initial '22 Guide
High-End of Algo for Sales but Conservative in EPS

The Coca-Cola Company (KO, Overweight-rated) is scheduled to report 4Q21 earnings on Thursday, February 10th, before the open. We have adjusted our margins assumptions and our 4Q21 EPS estimate of \$0.41 moves up a penny and is in-line with the current Bloomberg consensus. We think KO is set up for a strong quarter as our/consensus estimates contemplate only a modest acceleration from 3Q in the two-year CAGR on unit case volume and price/mix despite all indications that the operating environment was likely supportive sequentially (e.g., "October started strong," 3Q Delta variant impact, full benefit of off-cycle price increase, positive US scanner data trends). From a margin perspective, we are more conservative vs. consensus on gross margin as six fewer days in the quarter and convergence of shipments/unit cases drives deleverage in addition to headwind from incorporation of BODYARMOR (closed 11/1, finished product all co-manufactured) and faster finished good sales, although our SG&A estimates are modestly below the Street. Looking ahead to 2022, management tone around the underlying momentum has been positive ("we're confident that we're going to come out of COVID with a model that can drive the revenue at the top-end of the model") and our expectation for another above-algorithm year in 2023 (modeling +7.0%) doesn't feel aggressive as it implies a 3-year unit case volume and price/mix CAGR of just +1.1% and +2.4% vs. pre-COVID 2-year CAGR +2.1% and +3.3%, respectively, despite the accelerated pricing/RGM and marketing/innovation efforts bearing fruit. Management may choose to stick with its long-term algorithm when it initially guides 2022 (given the COVID-19 variants), but we think investors appreciate the strong brand equity (ability to take pricing) and favorable set-up and would welcome a raise through the year as visibility increases, which should further help the stock narrative, although FX headwinds could limit USD EPS flow through. Despite KO's recent rally (shares +9.5% vs. XLP +3.6% since December 13; see our [note](#)), valuation is still at a >1x P/E discount to OW-rated PEP, which we expect to narrow (we actually like both stocks and believe they are not mutually exclusive). Our Dec-22 target price moves up \$1 to \$64 based on 24x our 2023 EPS (in-line with 2-year average).

- **Framing Top-Line Expectations for 2022.** Management has sounded confident on the underlying top-line momentum given recent organizational changes, investments behind innovation, and marketing optimization and as noted above management believes it can drive the top-end of +4-6% organic revenue algorithm. We are anticipating another above-algorithm year in 2022 given still-recovering volumes from COVID-impacted 2021 (1H21 volumes remained below 2019 levels) and continuation of stronger-than-historical price/mix given pricing/RGM focus to offset cost pressures. All-in, we are currently modeling +7.0% organic revenue growth with unit case volumes +3.0% and price/mix +4.0%, although we think there could be further upside tension with further normalization of the operating environment.

Sources for: Style Exposure – J.P. Morgan Quantitative and Derivatives Strategy; all other tables are company data and J.P. Morgan estimates.

See page 12 for analyst certification and important disclosures.

J.P. Morgan 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.

Overweight

KO, KO US

Price (03 Feb 22): \$61.61

▲ **Price Target (Dec-22): \$64.00**
Prior (Dec-22): \$63.00Beverage, Household & Personal
Care ProductsAndrea Teixeira, CFA ^{AC}(1-212) 622-6735
andrea.f.teixeira@jpmorgan.com

Bloomberg JPMA TEIXEIRA <GO>

Drew Levine, CFA

(1-212) 622-0374
drew.levine@jpmorgan.com

Kojo Achiampong, CFA

(1-212) 622-2896
kojo.achiampong@jpmorgan.com
J.P. Morgan Securities LLC

Key Changes (FYE Dec)

	Prev	Cur
Adj. EPS - 21E (\$)	2.28	2.29
Adj. EPS - 22E (\$)	2.45	2.46
Revenue - 21E (\$ mn)	38,246	38,200
Revenue - 22E (\$ mn)	40,982	40,968

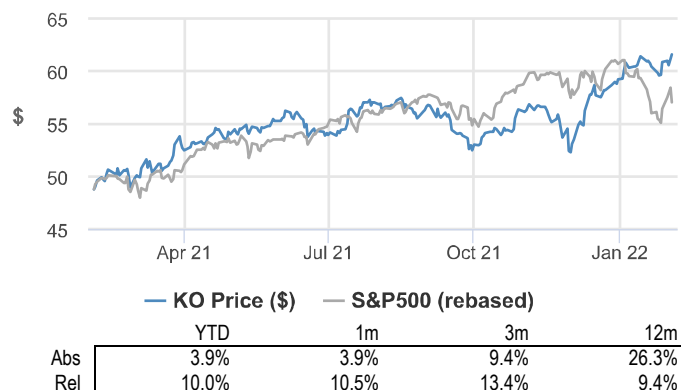
Quarterly Forecasts (FYE Dec)

Adj. EPS (\$)	2020A	2021E	2022E
Q1	0.51	0.55A	0.60
Q2	0.42	0.68A	0.72
Q3	0.55	0.65A	0.68
Q4	0.47	0.41	0.47
FY	1.95	2.29	2.46

Style Exposure

Quant Factors	Current %Rank	Hist %Rank (1=Top)			
		6M	1Y	3Y	5Y
Value	81	81	79	82	79
Growth	12	14	57	94	76
Momentum	30	36	87	30	78
Quality	32	38	16	71	16
Low Vol	5	13	15	2	2
ESGQ	36	16	16	31	20

Price Performance



Company Data

Shares O/S (mn)	4,321
52-week range (\$)	61.78-48.65
Market cap (\$ mn)	266,216.80
Exchange rate	1.00
Free float(%)	89.6%
3M - Avg daily vol (mn)	17.98
3M - Avg daily val (\$ mn)	1,040.5
Volatility (90 Day)	16
Index	S&P 500
BBG BUY HOLD SELL	20 8 0

Key Metrics (FYE Dec)

\$ in millions	FY20A	FY21E	FY22E	FY23E
Financial Estimates				
Revenue	32,999	38,200	40,968	43,167
Adj. EBITDA	11,306	12,573	13,405	14,424
Adj. EBIT	9,770	11,032	11,807	12,694
Adj. net income	8,435	9,924	10,689	11,590
Adj. EPS	1.95	2.29	2.46	2.67
BBG EPS	1.89	2.29	2.43	2.60
Cashflow from operations	9,844	12,145	12,517	13,581
FCFF	8,667	10,831	10,469	11,423
Margins and Growth				
Revenue growth	(11.5%)	15.8%	7.2%	5.4%
Total Organic Sales Growth (%)	-	-	-	-
Gross margin	59.1%	60.2%	59.8%	60.2%
EBITDA margin	34.3%	32.9%	32.7%	33.4%
EBITDA growth	(4.0%)	11.2%	6.6%	7.6%
EBIT margin	29.6%	28.9%	28.8%	29.4%
Net margin	25.6%	26.0%	26.1%	26.8%
Adj. EPS growth	(7.5%)	17.2%	7.6%	8.5%
Ratios				
Net debt/EBITDA	3.0	2.7	2.3	1.8
ROIC	-	-	-	-
ROE	44.1%	47.8%	44.5%	41.7%
Valuation				
FCFF yield	3.3%	4.1%	3.9%	4.3%
Dividend yield	2.6%	2.7%	2.8%	3.0%
EV/Revenue	8.6	7.4	6.8	6.4
EV/EBITDA	25.0	22.5	20.9	19.2
Adj. P/E	31.6	26.9	25.0	23.1

Summary Investment Thesis and Valuation

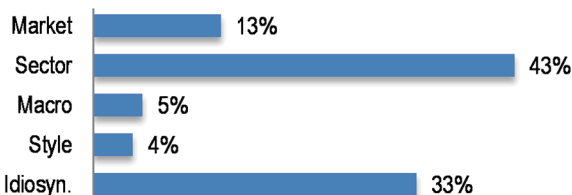
Investment Thesis

We have an Overweight rating on KO shares. We think Coca-Cola will benefit from economies re-opening and is well positioned to reaccelerate organic growth above the top-end of its long-term 4-6% range. KO has undergone a deep positive transformation over the past few years by improving its sales portfolio, refranchising and consolidating bottling assets globally, setting up new systems and procurement in the US, shifting focus from volume to value growth, and transitioning senior management. While the multi-billion dollar dispute with the IRS is an overhang, we think it is already reflected in the share price.

Valuation

Our Dec 2022 price target of \$64 is based on 24x P/E (2-year historical average multiple) applied to our 2023 estimates, and roughly one turn discount to closest peer PEP. Our \$64 price target implies ~4% upside in the next 11 months plus a ~3% dividend yield. While the IRS tax dispute and FX headwinds are overhangs, we think these are more than reflected in current valuation, creating favorable risk/reward.

Performance Drivers



Factors	6M Corr	1Y Corr
Market: MSCI US	0.42	0.38
Sect: Cons Staples	0.70	0.71
Ind: Food Bev & Tobacco	0.74	0.78
Macro:		
US 10yr yield	-0.10	-0.19
Non-Energy Commodity	0.11	0.15
Crude Oil	0.09	0.12
Quant Styles:		
LowVol	0.35	0.47
Momentum	-0.45	-0.39
Quality	0.25	0.35

- **Margin Expectations for 2022.** Despite its more asset-lite model, KO still faces impacts from the inflationary cost/supply chain environment and FX, and with its 3Q earnings guided to a mid-single-digits headwind to COGS for 2022 (i.e., higher than mid-single digits inflation for commodities) as the company rolls into higher cost hedges in 2022. We think it's possible that the cost environment has gotten incrementally more challenging for at least some of KO's cost exposures, particularly for juice, which is The Coca-Cola Company's largest direct commodity exposure (orange juice concentrate prices have surged ~30% since KO's 3Q21 earnings call). Price increases and accelerating RGM initiatives should help to offset some of the inflationary impacts, although we see other headwinds including acquisition of BODYARMOR and faster growth of finished goods (carries lower gross margin). From a G&A perspective, we expect the company to be able to drive some leverage overall as the company further optimizes marketing spending. Net-net, we are modeling for gross margin compression of -39 bps in 2022 and operating margin contraction of -6 bps.
- **Updated FX Outlook.** During the company's 3Q21 earnings call on October 27, 2021, management reiterates its full-year 2021 currency outlook including a +1-2% benefit to the top-line and +2-3% benefit to EPS and introduced expectations for 4Q21 including flat impact from FX on the top-line and a +2% tailwind to EPS. The company also provided an initial 2022 currency outlook of a -2% to -3% headwind to both the top-line and EPS. Since the 3Q21 earnings call, the USD has further strengthened according to our currency model by an average of about -80 bps between 4Q21-3Q22. For 4Q21, given hedging in place for G10 currencies we think it's likely that KO could remain close to its approximately even impact guidance on the top-line, and while we would assume that the currency impact implied by our model would fall within KO's initial 2022 guidance at this point to the top-line, we do think it could be toward the lower-end, and could be below the low-end on EPS given historical multiplier of 1.2-1.5x currency impact from top-line to bottom-line. For the quarter, we forecasting a -0.5% impact to the top-line (in-line with consensus) and for 2022 we are forecasting an FX headwind of -2.7% (vs. consensus -2.2%).
- **4Q21 Expectations.** We are expecting another quarter of double-digits organic revenue growth (on unit case basis) as we expect a modest acceleration in the two-year volume and price/mix CAGR given further recovery in away-from-home performance through the quarter vs. 3Q and also higher price/mix given additional pricing actions and further progress on RGM initiatives. We are forecasting 4Q21 organic revenue growth of +12.8% (unit case volume +6.2%, price/mix +6.6%) versus the apples-to-apples Consensus Metrix forecast of +13.0% (unit case volumes +6.4% and price/mix +6.6%). Using concentrate shipments consensus is currently modeling for +3.9% organic growth (shipments -2.7%, price/mix +6.6%) and on an apples-to-apples basis our model also calls for organic growth of +3.9% (shipments -2.6%, price/mix +6.6%). On gross margins, we are below the Street as we see tailwinds from pricing and away-from-home recovery being offset by the fewer shipping days in 4Q (six fewer), which drives deleverage, and headwind to gross margins from full acquisition of BODYAMOR, which closed on November 1 (finished product model typically carries lower margins). We are forecasting 4Q21 EPS of \$0.41, which is in-line with the current Bloomberg consensus estimate and up a penny from our prior estimate.

Thoughts on 2022 Outlook

KO provided some broad strokes around its initial outlook for 2022 with its 3Q earnings on October 27th, most directly around the cost/currency environment (anticipating MSD% COGS inflation and -2% to -3% top-line/EPS impact from FX) and more indirectly around the top-line, as we recall below. That said, a lot has obviously changed since then, and we provide our view on where KO will likely land on its initial 2022 guidance below.

Outlook for Revenue Growth

Management has sounded confident on the underlying top-line momentum given recent organizational changes ("emerging stronger"), investments behind innovation, and marketing optimization ("doing more with the same") and CEO Quincey noted at a recent conference that *"we're confident that we're going to come out of COVID with a model that can drive the revenue at the top-end of the model,"* which calls for organic revenue of +4-6%. We (and current consensus per Consensus Metrix) are anticipating another above-algorithm year in 2022 given still-recovering volumes from COVID-impacted 2021 (1H21 volumes remained below 2019 levels) and continuation of stronger-than-historical price/mix given pricing/RGM focus to offset cost pressures (management commentary has been supportive with CEO Quincey noting **"we will be looking at exactly what level our pricing needs to be for 2022...and we certainly intend to earn the right to take the pricing for the brands and the packaging and beyond"**) and benefit from further recovery runway for the higher price per ounce away-from-home channel (we believe that KO has likely regained ~70% of lost away-from-home volumes thus far). **From a guidance perspective, KO may take an initially conservative approach and not stray from its +4-6% algorithm (but point to the higher-end), although we see clear upside past the high-end and believe KO would prefer to raise through the year as visibility increases following some potential early year disruption from the Omicron wave.**

All-in, we are currently modeling +7.0% organic revenue growth with unit case volumes +3.0% and price/mix +4.0% vs. current Consensus Metrix of +7.2% (shipment volumes +3.0% and price/mix +4.7%). There could be upside tension to our numbers as our volume estimates contemplate a continuing gradual acceleration in the CAGR with stronger 2H vs. 1H (though on year/year basis we model for a stronger 1H given the compares) but supposes 2022 volumes land about 3.4% above 2019 levels or a 3-year CAGR of about 1.1% (pre-COVID 2018/2019 2-year unit case volume CAGR was +2.1% since CEO Quincey took over) and our price/mix estimates imply a 3-year CAGR of +2.4% (pre-COVID 2018/2019 2-year price/mix CAGR +3.3%), which seems somewhat conservative given the pricing/RGM actions likely higher and more widespread than historical, likely continued lower promotional environment given inflation and supply chain pressures, and FX pressures. Looking beyond organic growth, on FX, as we detail below, KO provided initial guidance for currency to be a -2% to -3% headwind to the top-line based on spot rates in late October and hedged positions and since then the USD has appreciated further, so currency headwinds could be toward the lower-end of the range, and on M&A we are estimating that the acquisition of BODYARMOR will add about 2.5% to the top-line. In the table below, we outline our 2021 forecasts vs. consensus.

Table 1: 2022 JPM Organic Revenue Estimates vs. Consensus

	2022		JPMe
Revenue Build	JPMe	Consensus	vs. cons
Organic Revenue	7.0%	7.2%	(19)
EMEA	7.5%	7.9%	(41)
Latin America	10.3%	10.0%	32
North America	7.2%	5.9%	129
Asia-Pacific	5.1%	5.8%	(68)
Global Ventures	9.3%	8.2%	109
BIG	6.5%	10.4%	(387)
Unit Case Volume	3.0%	3.1%	(13)
EMEA	3.3%	4.0%	(69)
Latin America	2.2%	2.5%	(31)
North America	2.7%	1.4%	132
Asia-Pacific	3.1%	3.7%	(58)
Global Ventures	5.7%	5.4%	33
BIG	4.5%	6.6%	(207)
Concentrate Sales	3.0%	3.0%	(3)
EMEA	3.3%	3.8%	(49)
Latin America	2.2%	2.5%	(31)
North America	2.7%	1.5%	122
Asia-Pacific	3.1%	3.5%	(38)
Global Ventures	5.7%	4.9%	83
BIG	4.5%	6.9%	(237)
Price/Mix	4.0%	4.7%	(65)
EMEA	4.2%	4.0%	17
Latin America	8.1%	7.5%	64
North America	4.5%	4.4%	7
Asia-Pacific	2.0%	2.3%	(30)
Global Ventures	3.6%	3.3%	27
BIG	2.0%	3.5%	(150)
FX	-2.7%	-2.2%	(47)
M&A/Other	2.5%	1.7%	75

Source: Company reports, Bloomberg Finance L.P. and J.P. Morgan estimates.

Outlook for Margins

Despite its more asset-lite model, KO still faces impacts from the inflationary cost/supply chain environment (commodities, labor, transportation), and FX, and with its 3Q earnings guided to a mid-single-digits headwind to COGS for 2022 (i.e., higher than mid-single digits inflation for commodities, which is a portion of overall COGS) as the company rolls into higher cost hedges in 2022 following favorable hedges in 2021. We think it's possible that the cost environment has gotten incrementally more challenging for at least some of KO's cost exposures, particularly for juice, which is The Coca-Cola Company's largest direct commodity exposure as orange juice concentrate prices have surged nearly 30% since KO's 3Q21 earnings call. As mentioned above, KO has put through off-cycle price increases and is accelerating RGM initiatives to help to offset some of the inflationary impacts and incidence based pricing model means that as bottlers take pricing to offset more direct impacts KO benefits from the flow through. Another headwind will be the incorporation of BODYARMOR which carry lower GM, and to a lesser extent the faster growth of finished goods (especially Costa growing faster with the reopening). On BODYARMOR, we estimate that overall the brand could have a 40-50 bps annualized unfavorable impact on KO's gross margins given that it is a lower margin finished goods model that is outsourced to third-party co-manufacturers. From a G&A perspective, we expect the company to be able to drive some leverage overall as the company further optimizes marketing spending, which should result in leverage on other operating expenses as some spending gets moved to consumer-

facing advertising expense. Net-net, we are modeling for gross margin compression of -39 bps in 2022 and operating margin contraction of -6 bps.

On the earnings front, we are raising our 2022 EPS forecast by a penny to \$2.46 (up +7.6% YOY, in-line with KO's long-term algorithm, although not much leverage from the top-line) compared to the Bloomberg consensus of \$2.43. As noted above, the company guided to a -2% to -3% headwind to EPS from unfavorable FX and since the company last reported earnings the USD has appreciated further, which given the historical 1.2-1.5x multiplier from top- to bottom-line could point to an impact more onerous than the low-end of the guidance. That said, we think KO will pull the necessary levers (e.g., pricing, RGM) to drive HSD% EPS growth in 2022.

4Q21 Earnings Outlook

Date: Thursday, February 10th

Estimated Release Time: 6:55 AM

Conference Call Details:

Time: 8:30 AM ET

Dial-in +1-877-986-1932 Pin: COKE IR

The Coca-Cola Company (KO, Neutral-rated) is scheduled to report 4Q21 earnings on Thursday, February 10th, before the market open. We are forecasting 4Q21 EPS of \$0.41, which is in-line with the current Bloomberg consensus estimate and up a penny from our prior estimate after adjusting a number of our underlying assumptions (lowered sales slightly due to FX, adjusted gross margins as we were likely being too punitive in the quarter given pricing flow-through, and adjusted SG&A higher closer to 2019 levels). Our top-line estimates are slightly ahead of current consensus, which we believe is partially attributable to higher estimate for M&A contribution, although on organic growth (concentrate shipment basis) we are largely in-line. On gross margins, we are below the Street as we see tailwinds from pricing and away-from-home recovery being offset by the fewer shipping days in 4Q (six fewer), which drives deleverage, and headwind to gross margins from full acquisition of BODYAMOR, which closed on November 1 (finished product model carries lower margins).

Table 2: JPMe 4Q21 and 2021 vs. Bloomberg Consensus

	4Q21			Y/Y	JPMe		2021	
Income Statement	JPMe	Consensus	%	vs. cons	JPMe	Consensus	%	vs. cons
Net Sales	9,011.6	8,929.1	4.8%	0.9%	38,199.6	38,110.3	15.8%	0.2%
Gross Profit	5,176.7	5,208.9	4.8%	-0.6%	22,996.7	23,040.7	17.9%	-0.2%
Operating Income	2,014.5	2,033.1	-14.4%	-0.9%	11,031.5	11,044.2	12.9%	-0.1%
Interest, Net	131.1				531.1			
Net Income	1,774.6	1,770.9	-12.2%	0.2%	9,923.6	9,950.4	17.6%	-0.3%
Shares Outstanding	4,344.0		0.3%		4,339.0		0.4%	
EPS	\$0.41	\$0.41	-12.5%	-0.6%	\$2.29	\$2.29	17.2%	0.0%
	4Q21			bps	JPMe		2021	
Growth/Margins	JPMe	Consensus	bps	vs. cons	JPMe	Consensus	bps	vs. cons
Sales Growth	4.8%	3.8%	1,006	96	15.8%	15.5%	2,724	27
Gross Margin	57.4%	58.3%	0	(89)	60.2%	60.5%	111	(26)
SG&A Margin	35.1%	35.6%	500	(48)	31.3%	31.5%	183	(16)
Operating Profit Margin	22.4%	22.8%	(500)	(41)	28.9%	29.0%	(73)	(10)
Tax Rate	19.1%				18.7%			

Source: Company reports, Bloomberg Finance L.P. and J.P. Morgan estimates.

Organic Revenue Growth

KO is lapping a -6% organic revenue decline in the year-ago period (on unit case volume basis, on concentrate volume basis a more modest -3% decline), the same as in 3Q20, and like 3Q21 we are expecting another quarter of double-digits organic revenue growth (on unit case basis) as we expect a modest acceleration in the two-year volume and price/mix CAGR as we broadly expect further recovery in away-from-home performance through the quarter vs. 3Q (3Q was impacted by Delta variant) and also higher price/mix given additional pricing actions and further progress on RGM initiatives. While Omicron began surging late in 4Q, we think the impact was likely relatively limited in the quarter, although looking ahead to 1Q22 impacts to the supply chain could have been more material (e.g., sick employees, softer on-premise).

3Q21 volumes landed ahead of 2019 levels despite a softer August period impacted by Delta variant as well ongoing lockdowns/state of emergency in several markets in Asia Pacific markets (e.g., China, Japan), and poor weather in Europe. However trends improved sequentially in September and momentum heading into 4Q sounded solid with management describing October results started “strong and in-line with expectations” so we feel comfortable modeling for some modest improvement in the two-year CAGR. From an organic growth perspective, the calendar 4Q has six fewer shipping days relative to the prior year (which had two extra days), which will impact the concentrate shipment volumes and result in a convergence of concentrate shipments to unit case volumes (year-to-3Q21 concentrate shipments +13% vs. unit case volume +8%), which had been running ahead due to five extra calendar days in 1Q21 and inventory build by bottlers to mitigate anticipates supply chain pressures.

From a price/mix perspective, underlying our expectations for a slight acceleration in the two-year trend is further pricing actions, which should be felt more fully in 4Q (e.g., off-cycle price increase of HSD% in US put through in August), as well as further benefits from RGM initiatives to offset supply chain inflationary pressures (incidence pricing from bottlers that are feeling pressures more). Sequentially there should be acceleration in price/mix as well as reopening has positive price/mix implications given higher price per ounce given immediate consumption as well as higher finished good sales (recall, during 4Q20 there were incremental restrictions in the US as well as other International markets).

We are forecasting 4Q21 organic revenue growth of +12.8% (unit case volume +6.2%, price/mix +6.6%) versus the apples-to-apples Consensus Metrix forecast of +13.0% (unit case volumes +6.4% and price/mix +6.6%). Consensus and the company utilize concentrate shipments to derive organic growth and on that basis the consensus is currently modeling for +3.9% organic growth (shipments -2.7%, price/mix +6.6%) and on an apples-to-apples basis our model also calls for organic growth of +3.9% (shipments -2.6%, price/mix +6.6%). On a regional basis, our organic sales forecasts are as follows: +14.0% in EMEA (unit case volume +7.0%, price/mix +7.0%), +26.0% in Latin America (unit case volume +6.0%, price/mix +20.0%), +11.5% in North America (unit case volume +6.0%, price/mix +5.5%), +2.5% in Asia Pacific (unit case volume +4.0%, price/mix -1.5%), +34.0% in Global Ventures (unit case volume +14.0%, price/mix +20.0%), and +2.0% in BIG (unit case volume +2.0%, price/mix flat).

Table 3: 4Q21 JPM Organic Revenue Estimates vs. Consensus

	4Q21		
Revenue Build	JPM	Consensus	vs. cons (bps)
Organic Revenue	12.8%	3.9%	889
EMEA	14.0%	2.3%	1170
Latin America	26.0%	8.9%	1710
North America	11.5%	3.3%	820
Asia-Pacific	2.5%	-1.9%	440
Global Ventures	34.0%	24.2%	980
BIG	2.0%	0.6%	140
Unit Case Volume	6.2%	6.4%	(18)
EMEA	7.0%	8.5%	(150)
Latin America	6.0%	5.4%	60
North America	6.0%	6.1%	(10)
Asia-Pacific	4.0%	5.8%	(180)
Global Ventures	14.0%	12.6%	140
BIG	2.0%	3.5%	(150)
Concentrate Sales	-2.6%	-2.7%	6
EMEA	-5.0%	-2.6%	(240)
Latin America	-6.0%	-6.3%	30
North America	-1.0%	-2.4%	140
Asia-Pacific	-2.0%	-3.0%	100
Global Ventures	2.0%	5.9%	(390)
BIG	-5.0%	-2.5%	(250)
Price/Mix	6.6%	6.6%	(3)
EMEA	7.0%	4.9%	210
Latin America	20.0%	15.2%	480
North America	5.5%	5.6%	(10)
Asia-Pacific	-1.5%	1.1%	(260)
Global Ventures	20.0%	18.3%	170
BIG	0.0%	3.1%	(310)
FX	-0.5%	-0.5%	(5)
M&A/Other	1.7%	1.3%	44

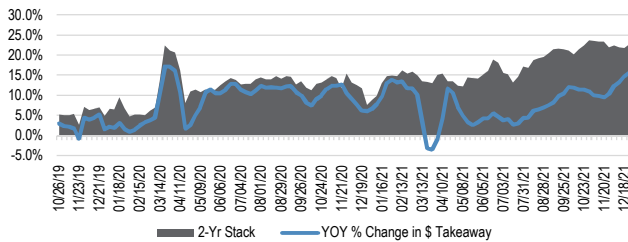
Source: Consensus Metrix and J.P. Morgan estimates.

Underlying US Trends Healthy +LDD% in 4Q21 Driven by Pricing, Accelerates Sequentially on Both One-Year and Two-Year; Expect Continued Recovery in Untracked Channels, Albeit Likely Decelerating

Within the tracked channels during the periods corresponding to 4Q21 (i.e., weeks ending 10/9/21 through 1/1/22), overall dollar takeaway trends accelerated strongly sequentially from 3Q21 driven by improvement in both unit volume and price/unit, in addition to modestly easier comparisons. Specifically, dollar takeaway in the 13-weeks ended 1/1/22 for KO was up +12.3% YOY (units -0.1%, price/unit +12.4%) vs. +7.6% (units -3.1%, price/unit +10.7%) in the periods corresponding to 3Q21 with year-ago comparisons easing sequentially by 160 bps (lapping +9.3% dollar growth last year 4Q20 vs. +10.9% in 3Q20) and as such the two-year trend for 4Q21 accelerated an impressive +320 bps sequentially to +21.6%. In CSDs, the improvement in growth rates in the 13-weeks ended 1/1/22 was somewhat stronger with dollar takeaway up +13.4% vs. +7.2% in the 13-week period ending 10/2/21 (+620 bps sequential acceleration vs. overall +470 bps sequential acceleration), partially helped by an easier comparison (year-ago comparisons eased by 370 bps), resulting in a +250 bps sequential acceleration in the two-year stack trend to +22.1%. The improvement in CSD trends is being primarily driven by an acceleration in price/mix to +14.2% in the 13-weeks ended 1/1/22 from +9.5% in the 13-weeks ended 10/2/21 as the company feels the full impact of additional pricing in the US put through in August, although volume performance also improved (-0.7% in 13-weeks ended 1/1/22, a +140 bps sequential improvement) given easier comparisons. It's also possible that the company saw some channel shift back to the off-premise with the surge in Omicron variant at the end of the year, though overall the company

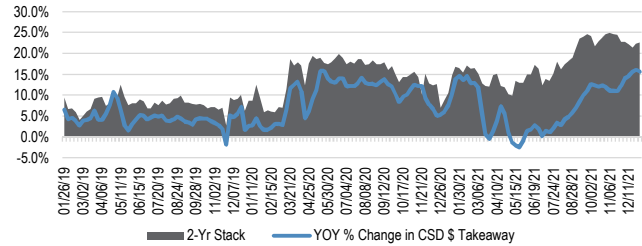
should benefit from recovery in away from home volumes given prior year impact from some states restricting bar/indoor dining during 4Q20.

Figure 1: KO Trends Up +LDD in 4Q, Strong Acceleration From 3Q
YOY % Change in \$ Takeaway (4-Weeks) vs. 2-Year Stack



Source: NielsenIQ

Figure 2: KO CSD Trends Up +DD in 4Q Driven by Pricing, Sequential Acceleration Both YOY and 2Y
YOY % Change in \$ Takeaway (4-Weeks) vs. 2-Year Stack

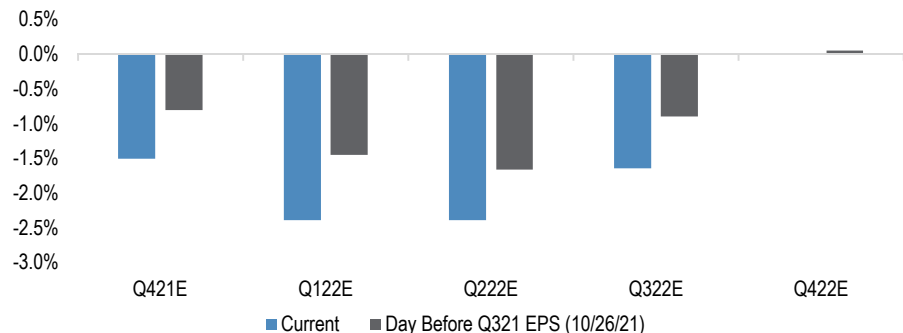


Source: NielsenIQ

Updated FX Outlook

During the company's 3Q21 earnings call on October 27, 2021, management reiterates its full-year 2021 currency outlook including a +1-2% benefit to the top-line and +2-3% benefit to EPS and introduced expectations for 4Q21 including flat impact from FX on the top-line and a +2% tailwind to EPS. The company also provided an initial 2022 currency outlook of a -2% to -3% headwind to both the top-line and EPS. Since the 3Q21 earnings call, the USD has further strengthened according to our currency model by an average of about -80 bps between 4Q21-3Q22. For 4Q21, given hedging in place for G10 currencies we think it's likely that KO could remain close to its approximately even impact guidance on the top-line, and while we would assume that the currency impact implied by our model would fall within KO's initial 2022 guidance at this point to the top-line, we do think it could be toward the lower-end, and could be below the low-end on EPS given historical multiplier of 1.2-1.5x currency impact from top-line to bottom-line. For the quarter, we are now forecasting a -0.5% impact to the top-line (vs. prior flat), in-line with the current Consensus Metrix consensus of -0.5%. Looking ahead to 2022, we are forecasting an FX headwind of -2.7%, which is unchanged from our last published update on December 13, 2021, and is 50 bps below the current Consensus Metrix consensus of -2.2%. Since our last update FX impact has been relatively unchanged overall.

Figure 3: USD Has Strengthened Since KO Last Reported in Late October and Relatively Unchanged Since We Last Updated in Mid-December



Source: Bloomberg Finance L.P. and J.P. Morgan estimates.

Investment Thesis, Valuation and Risks

The Coca-Cola Company (*Overweight; Price Target: \$64.00*)

Investment Thesis

We have an Overweight rating on KO shares. We think Coca-Cola will benefit from economies re-opening and is well positioned to reaccelerate organic growth above the top-end of its long-term 4-6% range. KO has undergone a deep positive transformation over the past few years by improving its sales portfolio, refranchising and consolidating bottling assets globally, setting up new systems and procurement in the US, shifting focus from volume to value growth, and transitioning senior management, all of which give us confidence the underlying fundamentals of the business. While the multi-billion dollar dispute with the IRS is an overhang, we think it is already reflected in the share price.

Valuation

Our Dec 2022 price target of \$64 is based on 24x P/E (2-year historical average multiple) applied to our 2023 estimates, and roughly one turn discount to closest peer PEP. Our \$64 price target implies ~4% upside in the next 11 months plus a ~3% dividend yield. While the IRS tax dispute and FX headwinds are overhangs, we think these are more than reflected in current valuation, creating favorable risk/reward.

Risks to Rating and Price Target

Downside risks to our Overweight rating and price target include: (1) negative resolution in the tax dispute with the IRS (not contemplated in our model); (2) the uncertainty around when or if the pandemic is contained and its impact on out-of-home consumption; (3) further margin de-leverage because of inflationary headwinds and/or volume losses; and (4) increasing unfavorable FX movements—all of which could drive further negative earnings revisions.

Coca-Cola: Summary of Financials

Income Statement - Annual						Income Statement - Quarterly					
	FY19A	FY20A	FY21E	FY22E	FY23E		1Q21A	2Q21A	3Q21A	4Q21E	
Revenue	37,280	32,999	38,200	40,968	43,167	Revenue	9,019A	10,125A	10,044A	9,012	
COGS	(14,659)	(13,498)	(15,203)	(16,464)	(17,194)	COGS	(3,556)A	(3,904)A	(3,908)A	(3,835)	
Gross profit	22,621	19,501	22,997	24,504	25,973	Gross profit	5,463A	6,221A	6,136A	5,177	
SG&A	(12,212)	(9,731)	(11,965)	(12,697)	(13,279)	SG&A	(2,669)A	(3,012)A	(3,122)A	(3,162)	
Adj. EBITDA	11,774	11,306	12,573	13,405	14,424	Adj. EBITDA	3,160A	3,592A	3,376A	2,445	
D&A	(1,365)	(1,536)	(1,542)	(1,598)	(1,731)	D&A	(366)A	(383)A	(362)A	(431)	
Adj. EBIT	10,409	9,770	11,032	11,807	12,694	Adj. EBIT	2,794A	3,209A	3,014A	2,015	
Net Interest	(383)	(583)	(531)	(510)	(503)	Net Interest	(129)A	(123)A	(148)A	(131)	
Adj. PBT	11,310	10,498	12,219	13,186	14,274	Adj. PBT	2,977A	3,606A	3,424A	2,212	
Tax	(2,195)	(2,042)	(2,284)	(2,505)	(2,712)	Tax	(569)A	(689)A	(603)A	(423)	
Minority Interest	(11)	(21)	(12)	8	28	Minority Interest	(10)A	17A	(4)A	(15)	
Adj. Net Income	9,104	8,435	9,924	10,689	11,590	Adj. Net Income	2,398A	2,934A	2,817A	1,775	
Reported EPS	2.11	1.95	2.29	2.46	2.67	Reported EPS	0.55A	0.68A	0.65A	0.41	
Adj. EPS	2.11	1.95	2.29	2.46	2.67	Adj. EPS	0.55A	0.68A	0.65A	0.41	
DPS	1.59	1.63	1.67	1.75	1.85	DPS	0.42A	0.42A	0.42A	0.42	
Payout ratio	75.2%	83.5%	73.1%	71.0%	69.3%	Payout ratio	75.5%A	61.8%A	64.4%A	102.2%	
Shares outstanding	4,314	4,323	4,339	4,342	4,340	Shares outstanding	4,330A	4,338A	4,344A	4,344	
Balance Sheet & Cash Flow Statement						Ratio Analysis					
	FY19A	FY20A	FY21E	FY22E	FY23E		FY19A	FY20A	FY21E	FY22E	FY23E
Cash and cash equivalents	6,480	6,795	5,323	4,639	4,456	Gross margin	60.7%	59.1%	60.2%	59.8%	60.2%
Accounts receivable	3,971	3,144	2,997	3,167	3,346	EBITDA margin	31.6%	34.3%	32.9%	32.7%	33.4%
Inventories	3,379	3,266	3,001	3,148	3,311	EBIT margin	27.9%	29.6%	28.9%	28.8%	29.4%
Other current assets	6,581	6,035	5,449	5,541	5,644	Net profit margin	24.4%	25.6%	26.0%	26.1%	26.8%
Current assets	20,411	19,240	16,770	16,495	16,757	ROE	50.6%	44.1%	47.8%	44.5%	41.7%
PP&E	10,838	10,777	10,213	10,664	11,092	ROA	10.7%	9.7%	11.3%	12.0%	13.0%
LT investments	854	812	897	897	897	ROCE	14.8%	13.2%	14.5%	15.4%	16.6%
Other non current assets	54,278	56,467	61,011	61,011	61,011	SG&A/Sales	32.8%	29.5%	31.3%	31.0%	30.8%
Total assets	86,381	87,296	88,891	89,067	89,757	Net debt/equity	1.7	1.6	1.4	1.1	0.8
Short term borrowings	10,994	2,183	1,866	1,866	1,866	P/E (x)	29.2	31.6	26.9	25.0	23.1
Payables	11,312	11,145	11,969	12,557	13,207	P/BV (x)	14.0	13.8	12.0	10.4	9.0
Other short term liabilities	4,667	1,273	1,372	1,424	1,480	EV/EBITDA (x)	24.1	25.0	22.5	20.9	19.2
Current liabilities	26,973	14,601	15,207	15,847	16,553	Dividend Yield	2.6%	2.6%	2.7%	2.8%	3.0%
Long-term debt	27,516	40,125	38,394	34,394	30,394	Sales/Assets (x)	0.4	0.4	0.4	0.5	0.5
Other long term liabilities	10,794	11,286	11,089	11,089	11,089	Interest cover (x)	30.7	19.4	23.7	26.3	28.7
Total liabilities	65,283	66,012	64,690	61,330	58,036	Operating leverage	60.7%	53.5%	81.9%	97.0%	139.9%
Shareholders' equity	18,981	19,299	22,247	25,783	29,767	Revenue y/y Growth	8.7%	(11.5%)	15.8%	7.2%	5.4%
Minority interests	2,117	1,985	1,954	1,954	1,954	EBITDA y/y Growth	7.3%	(4.0%)	11.2%	6.6%	7.6%
Total liabilities & equity	86,381	87,296	88,891	89,067	89,757	Tax rate	19.4%	19.5%	18.7%	19.0%	19.0%
BVPS	4.40	4.46	5.13	5.94	6.86	Adj. Net Income y/y Growth	1.7%	(7.3%)	17.6%	7.7%	8.4%
y/y Growth	11.4%	1.5%	14.8%	15.8%	15.5%	EPS y/y Growth	1.3%	(7.5%)	17.2%	7.6%	8.5%
Net debt/(cash)	34,816	34,227	33,541	30,225	26,408	DPS y/y Growth	2.7%	2.7%	2.5%	4.5%	6.0%
Cash flow from operating activities	10,471	9,844	12,145	12,517	13,581						
o/w Depreciation & amortization	1,365	1,536	1,542	1,598	1,731						
o/w Changes in working capital	366	690	799	179	205						
Cash flow from investing activities	(3,976)	(1,477)	(4,267)	(2,048)	(2,158)						
o/w Capital expenditure	(2,054)	(1,177)	(1,314)	(2,048)	(2,158)						
as % of sales	5.5%	3.6%	3.4%	5.0%	5.0%						
Cash flow from financing activities	(9,004)	(8,070)	(9,297)	(11,153)	(11,606)						
o/w Dividends paid	(6,845)	(7,047)	(7,251)	(7,584)	(8,037)						
o/w Net debt issued/(repaid)	(1,841)	(1,862)	(2,189)	(4,000)	(4,000)						
Net change in cash	(2,581)	373	(1,475)	(684)	(183)						
Adj. Free cash flow to firm	8,417	8,667	10,831	10,469	11,423						
y/y Growth	45.8%	3.0%	25.0%	(3.3%)	9.1%						

Source: Company reports and J.P. Morgan estimates.

Note: \$ in millions (except per-share data). Fiscal year ends Dec. o/w - out of which

Analyst Certification: The Research Analyst(s) denoted by an “AC” on the cover of this report certifies (or, where multiple Research Analysts are primarily responsible for this report, the Research Analyst denoted by an “AC” on the cover or within the document individually certifies, with respect to each security or issuer that the Research Analyst covers in this research) that: (1) all of the views expressed in this report accurately reflect the Research Analyst’s personal views about any and all of the subject securities or issuers; and (2) no part of any of the Research Analyst’s compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the Research Analyst(s) in this report. For all Korea-based Research Analysts listed on the front cover, if applicable, they also certify, as per KOFIA requirements, that the Research Analyst’s analysis was made in good faith and that the views reflect the Research Analyst’s own opinion, without undue influence or intervention.

All authors named within this report are Research Analysts unless otherwise specified. In Europe, Sector Specialists (Sales and Trading) may be shown on this report as contacts but are not authors of the report or part of the Research Department.

Important Disclosures

- **Market Maker/ Liquidity Provider:** J.P. Morgan is a market maker and/or liquidity provider in the financial instruments of/related to Coca-Cola.
- **Manager or Co-manager:** J.P. Morgan acted as manager or co-manager in a public offering of securities or financial instruments (as such term is defined in Directive 2014/65/EU) of/for Coca-Cola within the past 12 months.
- **Client:** J.P. Morgan currently has, or had within the past 12 months, the following entity(ies) as clients: Coca-Cola.
- **Client/Investment Banking:** J.P. Morgan currently has, or had within the past 12 months, the following entity(ies) as investment banking clients: Coca-Cola.
- **Client/Non-Investment Banking, Securities-Related:** J.P. Morgan currently has, or had within the past 12 months, the following entity(ies) as clients, and the services provided were non-investment-banking, securities-related: Coca-Cola.
- **Client/Non-Securities-Related:** J.P. Morgan currently has, or had within the past 12 months, the following entity(ies) as clients, and the services provided were non-securities-related: Coca-Cola.
- **Investment Banking Compensation Received:** J.P. Morgan has received in the past 12 months compensation for investment banking services from Coca-Cola.
- **Potential Investment Banking Compensation:** J.P. Morgan expects to receive, or intends to seek, compensation for investment banking services in the next three months from Coca-Cola.
- **Non-Investment Banking Compensation Received:** J.P. Morgan has received compensation in the past 12 months for products or services other than investment banking from Coca-Cola.
- **Debt Position:** J.P. Morgan may hold a position in the debt securities of Coca-Cola, if any.

Company-Specific Disclosures: Important disclosures, including price charts and credit opinion history tables, are available for compendium reports and all J.P. Morgan-covered companies, and certain non-covered companies, by visiting <https://www.jpmm.com/research/disclosures>, calling 1-800-477-0406, or e-mailing research.disclosure.inquiries@jpmorgan.com with your request.

Coca-Cola (KO, KO US) Price Chart



Date	Rating	Price (\$)	Price Target (\$)
14-Feb-19	N	49.79	47
23-Apr-19	N	47.40	50
23-Jul-19	N	51.22	59
30-Jan-20	N	57.01	60
23-Mar-20	OW	38.30	44
15-Apr-20	OW	48.92	50
21-Apr-20	OW	46.53	48
21-Jul-20	OW	46.12	51
12-Oct-20	OW	50.81	55
07-Jan-21	N	50.52	55
01-Feb-21	N	48.15	51
19-Apr-21	N	53.68	56
21-Jul-21	N	55.83	59
12-Oct-21	N	54.23	60
28-Oct-21	N	55.52	59
13-Dec-21	OW	56.28	63

Source: Bloomberg Finance L.P. and J.P. Morgan; price data adjusted for stock splits and dividends.
Initiated coverage Oct 03, 2011. All share prices are as of market close on the previous business day.

The chart(s) show J.P. Morgan's continuing coverage of the stocks; the current analysts may or may not have covered it over the entire period.

J.P. Morgan ratings or designations: OW = Overweight, N= Neutral, UW = Underweight, NR = Not Rated

Explanation of Equity Research Ratings, Designations and Analyst(s) Coverage Universe:

J.P. Morgan uses the following rating system: Overweight [Over the next six to twelve months, we expect this stock will outperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Neutral [Over the next six to twelve months, we expect this stock will perform in line with the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Underweight [Over the next six to twelve months, we expect this stock will underperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Not Rated (NR): J.P. Morgan has removed the rating and, if applicable, the price target, for this stock because of either a lack of a sufficient fundamental basis or for legal, regulatory or policy reasons. The previous rating and, if applicable, the price target, no longer should be relied upon. An NR designation is not a recommendation or a rating. In our Asia (ex-Australia and ex-India) and U.K. small- and mid-cap equity research, each stock's expected total return is compared to the expected total return of a benchmark country market index, not to those analysts' coverage universe. If it does not appear in the Important Disclosures section of this report, the certifying analyst's coverage universe can be found on J.P. Morgan's research website, <https://www.jpmorganmarkets.com>.

Coverage Universe: Teixeira, Andrea: Becele, S.A.B. de C.V. (CUERVO.MX), Brown-Forman Corp (BFb), Central Garden & Pet (CENTA), Church & Dwight (CHD), Clorox (CLX), Coca-Cola (KO), Colgate-Palmolive Co (CL), Constellation Brands (STZ), Coty Inc (COTY), Energizer Holdings (ENR), Hydrofarm (HYFM), Keurig Dr Pepper Inc (KDP), Kimberly Clark Corp (KMB), Molson Coors Beverage Co (TAP), Monster Beverage (MNST), Newell Brands Inc (NWL), Olaplex (OLPX), PepsiCo (PEP), Primo Water Corp (PRMW), Reynolds (REYN), The Duckhorn Portfolio (NAPA), The Estee Lauder Cos (EL), The Honest Company (HNST), The Procter & Gamble Company (PG), e.l.f. Beauty Inc (ELF)

J.P. Morgan Equity Research Ratings Distribution, as of January 01, 2022

	Overweight (buy)	Neutral (hold)	Underweight (sell)
J.P. Morgan Global Equity Research Coverage*	52%	37%	11%
IB clients**	53%	46%	34%
J.P. Morgan Equity Research Coverage*	51%	37%	12%
IB clients**	74%	68%	50%

*Please note that the percentages might not add to 100% because of rounding.

**Percentage of subject companies within each of the "buy," "hold" and "sell" categories for which J.P. Morgan has provided investment banking services within the previous 12 months.

For purposes only of FINRA ratings distribution rules, our Overweight rating falls into a buy rating category; our Neutral rating falls into a hold rating category; and our Underweight rating falls into a sell rating category. Please note that stocks with an NR designation are not included in the table above. This information is current as of the end of the most recent calendar quarter.

Equity Valuation and Risks: For valuation methodology and risks associated with covered companies or price targets for covered companies, please see the most recent company-specific research report at <http://www.jpmorganmarkets.com>, contact the primary analyst or your J.P. Morgan representative, or email research.disclosure.inquiries@jpmorgan.com. For material information about the proprietary models used, please see the Summary of Financials in company-specific research reports and the Company Tearsheets, which are available to download on the company pages of our client website, <http://www.jpmorganmarkets.com>. This report also sets out within it the material underlying assumptions used.

A history of J.P. Morgan investment recommendations disseminated during the preceding 12 months can be accessed on the Research & Commentary page of <http://www.jpmorganmarkets.com> where you can also search by analyst name, sector or financial instrument.

Analysts' Compensation: The research analysts responsible for the preparation of this report receive compensation based upon various factors, including the quality and accuracy of research, client feedback, competitive factors, and overall firm revenues.

Other Disclosures

J.P. Morgan is a marketing name for investment banking businesses of JPMorgan Chase & Co. and its subsidiaries and affiliates worldwide.

All research material made available to clients are simultaneously available on our client website, J.P. Morgan Markets, unless specifically permitted by relevant laws. Not all research content is redistributed, e-mailed or made available to third-party aggregators. For all research material available on a particular stock, please contact your sales representative.

Any long form nomenclature for references to China; Hong Kong; Taiwan; and Macau within this research material are Mainland China; Hong Kong SAR (China); Taiwan (China); and Macau SAR (China).

J.P. Morgan Research may, from time to time, write on issuers or securities targeted by economic or financial sanctions imposed or administered by the governmental authorities of the U.S., EU, UK or other relevant jurisdictions (Sanctioned Securities). Nothing in this report is intended to be read or construed as encouraging, facilitating, promoting or otherwise approving investment or dealing in such Sanctioned Securities. Clients should be aware of their own legal and compliance obligations when making investment decisions.

Options and Futures related research: If the information contained herein regards options- or futures-related research, such information is available only to persons who have received the proper options or futures risk disclosure documents. Please contact your J.P. Morgan Representative or visit <https://www.theocc.com/components/docs/riskstoc.pdf> for a copy of the Option Clearing Corporation's Characteristics and Risks of Standardized Options or http://www.finra.org/sites/default/files/Security_Futures_Risk_Disclosure_Statement_2018.pdf for a copy of the Security Futures Risk Disclosure Statement.

Changes to Interbank Offered Rates (IBORs) and other benchmark rates: Certain interest rate benchmarks are, or may in the future become, subject to ongoing international, national and other regulatory guidance, reform and proposals for reform. For more information, please consult: https://www.jpmorgan.com/global/disclosures/interbank_offered_rates

Private Bank Clients: Where you are receiving research as a client of the private banking businesses offered by JPMorgan Chase & Co. and its subsidiaries ("J.P. Morgan Private Bank"), research is provided to you by J.P. Morgan Private Bank and not by any other division of J.P. Morgan, including, but not limited to, the J.P. Morgan Corporate and Investment Bank and its Global Research division.

Legal entity responsible for the production and distribution of research: The legal entity identified below the name of the Reg AC Research Analyst who authored this material is the legal entity responsible for the production of this research. Where multiple Reg AC Research Analysts authored this material with different legal entities identified below their names, these legal entities are jointly responsible for the production of this research. Research Analysts from various J.P. Morgan affiliates may have contributed to the production of this material but may not be licensed to carry out regulated activities in your jurisdiction (and do not hold themselves out as being able to do so). Unless otherwise stated below, this material has been distributed by the legal entity responsible for production. If you have any queries, please contact the relevant Research Analyst in your jurisdiction or the entity in your jurisdiction that has distributed this research material.

Legal Entities Disclosures and Country-/Region-Specific Disclosures:

Argentina: JPMorgan Chase Bank N.A Sucursal Buenos Aires is regulated by Banco Central de la República Argentina ("BCRA"- Central Bank of Argentina) and Comisión Nacional de Valores ("CNV"- Argentinian Securities Commission" - ALYC y AN Integral N°51). **Australia:** J.P. Morgan Securities Australia Limited ("JPMSAL") (ABN 61 003 245 234/AFS Licence No: 238066) is regulated by the Australian Securities and Investments Commission and is a Market, Clearing and Settlement Participant of ASX Limited and CHIX. This material is issued and distributed in Australia by or on behalf of JPMSAL only to "wholesale clients" (as defined in section 761G of the Corporations Act 2001). A list of all financial products covered can be found by visiting

<https://www.jpmm.com/research/disclosures>. J.P. Morgan seeks to cover companies of relevance to the domestic and international investor base across all Global Industry Classification Standard (GICS) sectors, as well as across a range of market capitalisation sizes. If applicable, in the course of conducting public side due diligence on the subject company(ies), the Research Analyst team may at times perform such diligence through corporate engagements such as site visits, discussions with company representatives, management presentations, etc. Research issued by JPMSAL has been prepared in accordance with J.P. Morgan Australia's Research Independence Policy which can be found at the following link: [J.P. Morgan Australia - Research Independence Policy](#). **Brazil:** Banco J.P. Morgan S.A. is regulated by the Comissao de Valores Mobiliarios (CVM) and by the Central Bank of Brazil. Ombudsman J.P. Morgan: 0800-7700847 / ouvidoria.jp.morgan@jpmorgan.com. **Canada:** J.P. Morgan Securities Canada Inc. is a registered investment dealer, regulated by the Investment Industry Regulatory Organization of Canada and the Ontario Securities Commission and is the participating member on Canadian exchanges. This material is distributed in Canada by or on behalf of J.P. Morgan Securities Canada Inc. **Chile:** Inversiones J.P. Morgan Limitada is an unregulated entity incorporated in Chile. **China:** J.P. Morgan Securities (China) Company Limited has been approved by CSRC to conduct the securities investment consultancy business. **Dubai International Financial Centre (DIFC):** JPMorgan Chase Bank, N.A., Dubai Branch is regulated by the Dubai Financial Services Authority (DFSA) and its registered address is Dubai International Financial Centre - The Gate, West Wing, Level 3 and 9 PO Box 506551, Dubai, UAE. This material has been distributed by JP Morgan Chase Bank, N.A., Dubai Branch to persons regarded as professional clients or market counterparties as defined under the DFSA rules. **European Economic Area (EEA):** Unless specified to the contrary, research is distributed in the EEA by J.P. Morgan SE ("JPM SE"), which is subject to prudential supervision by the European Central Bank ("ECB") in cooperation with BaFin and Deutsche Bundesbank in Germany. JPM SE is a company headquartered in Frankfurt with registered address at TaunusTurm, Taunustor 1, Frankfurt am Main, 60310, Germany. The material has been distributed in the EEA to persons regarded as professional investors (or equivalent) pursuant to Art. 4 para. 1 no. 10 and Annex II of MiFID II and its respective implementation in their home jurisdictions ("EEA professional investors"). This material must not be acted on or relied on by persons who are not EEA professional investors. Any investment or investment activity to which this material relates is only available to EEA relevant persons and will be engaged in only with EEA relevant persons. **Hong Kong:** J.P. Morgan Securities (Asia Pacific) Limited (CE number AAJ321) is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission in Hong Kong, and J.P. Morgan Broking (Hong Kong) Limited (CE number AAB027) is regulated by the Securities and Futures Commission in Hong Kong. JP Morgan Chase Bank, N.A., Hong Kong (CE Number AAL996) is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission, is organized under the laws of the United States with limited liability. **India:** J.P. Morgan India Private Limited (Corporate Identity Number - U67120MH1992FTC068724), having its registered office at J.P. Morgan Tower, Off. C.S.T. Road, Kalina, Santacruz - East, Mumbai - 400098, is registered with the Securities and Exchange Board of India (SEBI) as a 'Research Analyst' having registration number INH000001873. J.P. Morgan India Private Limited is also registered with SEBI as a member of the National Stock Exchange of India Limited and the Bombay Stock Exchange Limited (SEBI Registration Number - INZ000239730) and as a Merchant Banker (SEBI Registration Number - MB/INM000002970). Telephone: 91-22-6157 3000, Facsimile: 91-22-6157 3990 and Website: <http://www.jpmpi.com>. JPMorgan Chase Bank, N.A. - Mumbai Branch is licensed by the Reserve Bank of India (RBI) (Licence No. 53/ Licence No. BY.4/94; SEBI - IN/CUS/014/ CDSL : IN-DP-CDSL-444-2008/ IN-DP-NSDL-285-2008/ INBI00000984/ INE231311239) as a Scheduled Commercial Bank in India, which is its primary license allowing it to carry on Banking business in India and other activities, which a Bank branch in India are permitted to undertake. For non-local research material, this material is not distributed in India by J.P. Morgan India Private Limited. **Indonesia:** PT J.P. Morgan Sekuritas Indonesia is a member of the Indonesia Stock Exchange and is regulated by the OJK a.k.a. BAPEPAM LK. **Korea:** J.P. Morgan Securities (Far East) Limited, Seoul Branch, is a member of the Korea Exchange (KRX). JPMorgan Chase Bank, N.A., Seoul Branch, is licensed as a branch office of foreign bank (JPMorgan Chase Bank, N.A.) in Korea. Both entities are regulated by the Financial Services Commission (FSC) and the Financial Supervisory Service (FSS). For non-macro research material, the material is distributed in Korea by or through J.P. Morgan Securities (Far East) Limited, Seoul Branch. **Japan:** JPMorgan Securities Japan Co., Ltd. and JPMorgan Chase Bank, N.A., Tokyo Branch are regulated by the Financial Services Agency in Japan. **Malaysia:** This material is issued and distributed in Malaysia by JPMorgan Securities (Malaysia) Sdn Bhd (18146-X), which is a Participating Organization of Bursa Malaysia Berhad and holds a Capital Markets Services License issued by the Securities Commission in Malaysia. **Mexico:** J.P. Morgan Casa de Bolsa, S.A. de C.V. and J.P. Morgan Grupo Financiero are members of the Mexican Stock Exchange and are authorized to act as a broker dealer by the National Banking and Securities Exchange Commission. **New Zealand:** This material is issued and distributed by JPMSAL in New Zealand only to "wholesale clients" (as defined in the Financial Advisers Act 2008). JPMSAL is registered as a Financial Service Provider under the Financial Service providers (Registration and Dispute Resolution) Act of 2008. **Pakistan:** J. P. Morgan Pakistan Broking (Pvt.) Ltd is a member of the Karachi Stock Exchange and regulated by the Securities and Exchange Commission of Pakistan. **Philippines:** J.P. Morgan Securities Philippines Inc. is a Trading Participant of the Philippine Stock Exchange and a member of the Securities Clearing Corporation of the Philippines and the Securities Investor Protection Fund. It is regulated by the Securities and Exchange Commission. **Russia:** CB J.P. Morgan Bank International LLC is regulated by the Central Bank of Russia. **Singapore:** This material is issued and distributed in Singapore by or through J.P. Morgan Securities Singapore Private Limited (JPMS) [MCI (P) 093/09/2021 and Co. Reg. No.: 199405335R], which is a member of the Singapore Exchange Securities Trading Limited, and/or JPMorgan Chase Bank, N.A., Singapore branch (JPMCB Singapore), both of which are regulated by the Monetary Authority of Singapore. This material is issued and distributed in Singapore only to accredited investors, expert investors and institutional investors, as defined in Section 4A of the Securities and Futures Act, Cap. 289 (SFA). This material is not intended to be issued or distributed to any retail investors or any other investors that do not fall into the classes of "accredited investors," "expert investors" or "institutional investors," as defined under Section 4A of the SFA. Recipients of this material in Singapore are to contact JPMS or JPMCB Singapore in respect of any matters arising from, or in connection with, the

material. As at the date of this material, JPMSS is a designated market maker for certain structured warrants listed on the Singapore Exchange where the underlying securities may be the securities discussed in this material. Arising from its role as a designated market maker for such structured warrants, JPMSS may conduct hedging activities in respect of such underlying securities and hold or have an interest in such underlying securities as a result. The updated list of structured warrants for which JPMSS acts as designated market maker may be found on the website of the Singapore Exchange Limited: <http://www.sgx.com>. **South Africa:** J.P. Morgan Equities South Africa Proprietary Limited and JPMorgan Chase Bank, N.A., Johannesburg Branch are members of the Johannesburg Securities Exchange and are regulated by the Financial Services Board. **Taiwan:** J.P. Morgan Securities (Taiwan) Limited is a participant of the Taiwan Stock Exchange (company-type) and regulated by the Taiwan Securities and Futures Bureau. Material relating to equity securities is issued and distributed in Taiwan by J.P. Morgan Securities (Taiwan) Limited, subject to the license scope and the applicable laws and the regulations in Taiwan. According to Paragraph 2, Article 7-1 of Operational Regulations Governing Securities Firms Recommending Trades in Securities to Customers (as amended or supplemented) and/or other applicable laws or regulations, please note that the recipient of this material is not permitted to engage in any activities in connection with the material that may give rise to conflicts of interests, unless otherwise disclosed in the "Important Disclosures" in this material. **Thailand:** This material is issued and distributed in Thailand by JPMorgan Securities (Thailand) Ltd., which is a member of the Stock Exchange of Thailand and is regulated by the Ministry of Finance and the Securities and Exchange Commission, and its registered address is 3rd Floor, 20 North Sathorn Road, Silom, Bangrak, Bangkok 10500. **UK:** Unless specified to the contrary, research is distributed in the UK by J.P. Morgan Securities plc ("JPMS plc") which is a member of the London Stock Exchange and is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. JPMS plc is registered in England & Wales No. 2711006, Registered Office 25 Bank Street, London, E14 5JP. This material is directed in the UK only to: (a) persons having professional experience in matters relating to investments falling within article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) (Order) 2005 ("the FPO"); (b) persons outlined in article 49 of the FPO (high net worth companies, unincorporated associations or partnerships, the trustees of high value trusts, etc.); or (c) any persons to whom this communication may otherwise lawfully be made; all such persons being referred to as "UK relevant persons". This material must not be acted on or relied on by persons who are not UK relevant persons. Any investment or investment activity to which this material relates is only available to UK relevant persons and will be engaged in only with UK relevant persons. Research issued by JPMS plc has been prepared in accordance with JPMS plc's policy for prevention and avoidance of conflicts of interest related to the production of Research which can be found at the following link: [J.P. Morgan EMEA - Research Independence Policy](#). **U.S.:** J.P. Morgan Securities LLC ("JPMS") is a member of the NYSE, FINRA, SIPC, and the NFA. JPMorgan Chase Bank, N.A. is a member of the FDIC. Material published by non-U.S. affiliates is distributed in the U.S. by JPMS who accepts responsibility for its content.

General: Additional information is available upon request. The information in this material has been obtained from sources believed to be reliable. While all reasonable care has been taken to ensure that the facts stated in this material are accurate and that the forecasts, opinions and expectations contained herein are fair and reasonable, JPMorgan Chase & Co. or its affiliates and/or subsidiaries (collectively J.P. Morgan) make no representations or warranties whatsoever to the completeness or accuracy of the material provided, except with respect to any disclosures relative to J.P. Morgan and the Research Analyst's involvement with the issuer that is the subject of the material. Accordingly, no reliance should be placed on the accuracy, fairness or completeness of the information contained in this material. Any data discrepancies in this material could be the result of different calculations and/or adjustments. J.P. Morgan accepts no liability whatsoever for any loss arising from any use of this material or its contents, and neither J.P. Morgan nor any of its respective directors, officers or employees, shall be in any way responsible for the contents hereof, apart from the liabilities and responsibilities that may be imposed on them by the relevant regulatory authority in the jurisdiction in question, or the regulatory regime thereunder. Opinions, forecasts or projections contained in this material represent J.P. Morgan's current opinions or judgment as of the date of the material only and are therefore subject to change without notice. Periodic updates may be provided on companies/industries based on company-specific developments or announcements, market conditions or any other publicly available information. There can be no assurance that future results or events will be consistent with any such opinions, forecasts or projections, which represent only one possible outcome. Furthermore, such opinions, forecasts or projections are subject to certain risks, uncertainties and assumptions that have not been verified, and future actual results or events could differ materially. The value of, or income from, any investments referred to in this material may fluctuate and/or be affected by changes in exchange rates. All pricing is indicative as of the close of market for the securities discussed, unless otherwise stated. Past performance is not indicative of future results. Accordingly, investors may receive back less than originally invested. This material is not intended as an offer or solicitation for the purchase or sale of any financial instrument. The opinions and recommendations herein do not take into account individual client circumstances, objectives, or needs and are not intended as recommendations of particular securities, financial instruments or strategies to particular clients. The recipients of this material must make their own independent decisions regarding any securities or financial instruments mentioned herein and should seek advice from such independent financial, legal, tax or other adviser as they deem necessary. J.P. Morgan may trade as a principal on the basis of the Research Analysts' views and research, and it may also engage in transactions for its own account or for its clients' accounts in a manner inconsistent with the views taken in this material, and J.P. Morgan is under no obligation to ensure that such other communication is brought to the attention of any recipient of this material. Others within J.P. Morgan, including Strategists, Sales staff and other Research Analysts, may take views that are inconsistent with those taken in this material. Employees of J.P. Morgan not involved in the preparation of this material may have investments in the securities (or derivatives of such securities) mentioned in this material and may trade them in ways different from those discussed in this material. This material is not an advertisement for or marketing of any issuer, its products or services, or its securities in any jurisdiction.

"Other Disclosures" last revised January 22, 2022.

Copyright 2022 JPMorgan Chase & Co. All rights reserved. This material or any portion hereof may not be reprinted, sold or redistributed without the written consent of J.P. Morgan.