

The push and pull on U.S. equities

Kelly Bogdanova – San Francisco

When equity markets are in transition there are usually a number of fits and starts as they work their way through bear market declines and get closer to beginning a sustainable bull phase. We look at the negative influences weighing on the market today, but also see some reasons why the S&P 500 could deliver positive full-year returns, once all is said and done.

Following a strong run since last autumn, the U.S. equity market has been wobbly. Uncertainties that had previously receded have come back to the fore, generating volatility and downside in major U.S. indexes. While the S&P 500 shot up almost 17 percent from the October 2022 low through early February, it has pulled back 4.5 percent since then. As of Wednesday's close, the index is 16.8 percent below the all-time high reached in early 2022.

The negative influences

Market participants are once again mulling over the possibility that:

- **The Fed's rate hike cycle could persist into the summer**, with a higher probability of the fed funds rate rising another 75 basis points (bps) to 5.50 percent between now and the central bank's June or July policy meetings, according to futures market positioning. Resilient consumer spending, the strong labor market, and higher-than-comfortable [near-term inflation projections](#) have contributed to this sentiment. The Fed's [institutional biases](#) are also playing a role. Just a couple months ago markets were contemplating only 25 bps more in hikes.
- **Rates could stay higher for longer**, impacting corporate borrowing costs and limiting business capital investment.

The U.S. market continues to work through headwinds

S&P 500 Index



Source - RBC Wealth Management, Bloomberg; daily data through 2/22/23

- **If inflation lingers above normal for longer, the market's valuation could become more difficult to justify.** The S&P 500 is trading at a price-to-earnings (P/E) ratio of 17.9x the forward 12-month consensus earnings forecast, above the 20-year average of

For perspectives on the week from our regional analysts, please see [pages 3–4](#).

Investment and insurance products offered through RBC Wealth Management are not insured by the FDIC or any other federal government agency, are not deposits or other obligations of, or guaranteed by, a bank or any bank affiliate, and are subject to investment risks, including possible loss of the principal amount invested.

Priced (in USD) as of 2/22/23 market close (unless otherwise stated). Produced: 2/23/23 2:48 pm ET; Disseminated: 2/23/23 2:53 pm ET
For important disclosures, required non-U.S. analyst disclosures, and authors' contact information, see [page 6](#).

15.7x. Typically, inflation needs to be low or at least demonstrating that it is moving toward sustainably low levels for the market's P/E to be able to hover at the high end of the historical range for any meaningful period of time. Additionally, U.S. equities now look pricey compared to bonds based on equity risk premium analysis. This is the reverse of what occurred in recent years.

- **If the Fed ends up overtightening, the economy could ultimately tip into recession.** There is a fine line between the optimal number of rate hikes and overdoing it. As the Fed continues to fight inflation and the tight labor market at a time when some economic indicators have already weakened, RBC Capital Markets, LLC's Chief U.S. Economist Tom Porcelli is becoming more concerned that Chair Jerome Powell's Fed will overdo it. Porcelli thinks the central bank should have already stopped hiking rates.
- **Corporate margins and earnings could face additional pressure.** The consensus earnings forecast for 2023 has fallen to \$223 per share from \$252 per share last May. By some metrics, the current Q4 2022 earnings season is the weakest quarter in the past 24 years except for those during recessions, according to our national research correspondent. At this stage, the consensus forecast is for only 2.2 percent year-over-year earnings growth for 2023, and we think there is downside risk to this estimate—especially if a recession materializes.

It's not unusual for a number of uncertainties to linger after big selloffs like the one that occurred in 2022, and for issues that had previously caused volatility to create angst once again. This typically happens when equity markets are in transition. As the major indexes work their way through bear market declines and get closer to beginning a sustainable bull phase, there are usually a number of fits and starts. Given the lingering headwinds, investors should expect more volatility this year—this would be normal market behavior.

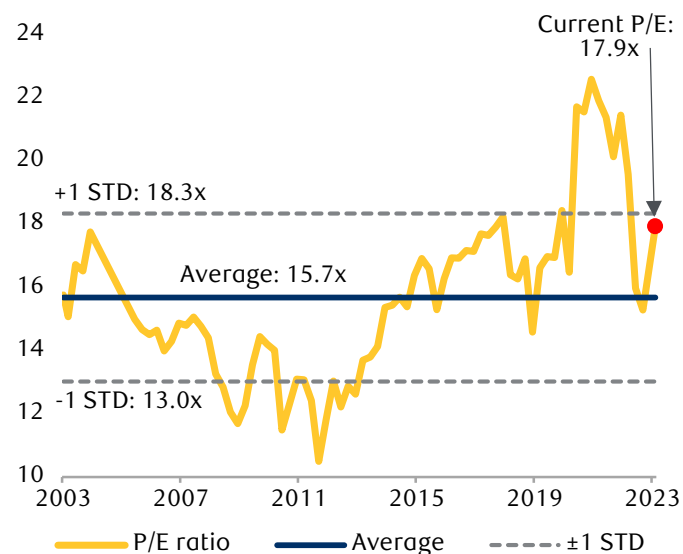
The positive influences

Even if volatility persists in the coming weeks and months, we continue to see reasons why the S&P 500 can deliver positive full-year returns, once all is said and done.

- **Inflation should push lower this year.** The path downward will likely be bumpy and it could take longer than is comfortable for inflation to get back to the Fed's two percent target. But price trends for commodities and goods, and projections for rents are pointing toward notably lower inflation by year end, according to RBC economists' forecasts.
- **The earnings outlook looks "less bad"—warts and all.** We think 2023 S&P 500 earnings could end up at \$210–\$220 per share, lower than the current \$223 per share consensus estimate. This would be roughly equal

The market's valuation is now above average

S&P 500 price-to-earnings ratio based on forward 12-month consensus estimates



Source - RBC Wealth Management, Bloomberg; quarterly data except for the final data point that is from 2/22/23. "STD" stands for "standard deviation."

to or slightly down from the 2022 estimate of \$218 per share. Such an outcome would be "less bad" than previous recession periods. We think this is possible because household spending should be relatively more resilient this cycle than in recent economic contractions. Household balance sheets appear to be in better shape due to sturdier employment trends and high savings levels when this period began. Both will likely erode, but not as much as in previous recessions.

- **Investors should heed the long-standing axiom, "As goes January, so goes the year"**—aka the "January effect." In January 2023, the S&P 500 climbed 6.2 percent, the Dow Jones Industrial Average rose 2.8 percent, and the small-cap Russell 2000 rallied 9.7 percent. According to Stock Trader's Almanac data since 1950, when the S&P 500 rose in January *and* was up during the first five trading sessions of the year *and* there was a "Santa Claus rally"—all of which occurred this time around—the market posted gains for the full year 90 percent of the time; the average gain was 17.5 percent. Following bear market years (like last year), it rose on 100 percent of occasions. Furthermore, it would be rare for the S&P 500 to deliver back-to-back negative return years; that has occurred only twice in the post-WWII era.

We think these positive factors, balanced by the lingering headwinds, argue for Market Weight exposure to U.S. equities, with an eye toward becoming more aggressive with sector and industry positioning or more constructive overall should the market pull back further.

UNITED STATES

Atul Bhatia, CFA – Minneapolis

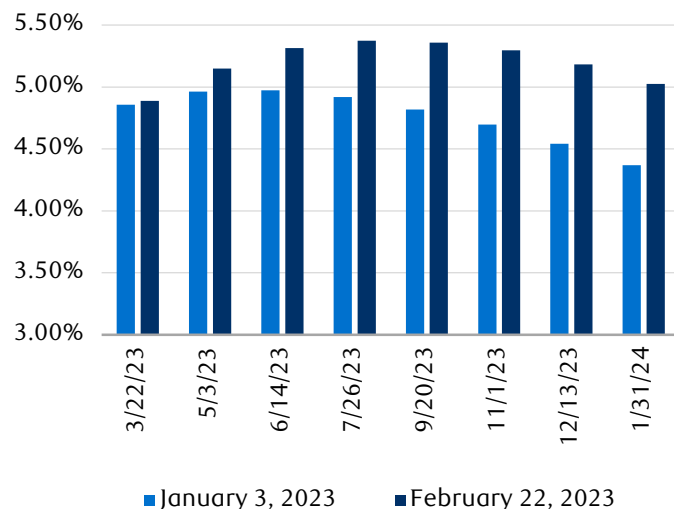
■ **Recent data continue to present a mixed picture of the U.S. economy.** The nationwide S&P Global Composite PMI (Purchasing Managers' Index) reflected essentially flat activity overall with modest growth in services. Meanwhile, two regional Federal Reserve bank metrics were less constructive: the New York Fed's monthly Services Business Activity Index showed a broad slowdown in activity, while the Philadelphia Fed released data showing a modest expansion in non-manufacturing activity but a sharp deterioration in business sentiment. We believe the overall picture reflects the headwinds of tighter monetary policy and general uncertainty while highlighting the resilience of the U.S. economy.

■ **The minutes of the Fed's most recent meeting emphasized a view that additional rate hikes are likely to be needed** as the central bank continues to fight inflation above its target level. Inflation and employment numbers released since that meeting have strengthened the case for tighter policy, according to public comments by several regional Fed leaders. **Investors have apparently taken the warnings to heart**, with interest rate futures now reflecting a high probability of 5.5% overnight target rates by midyear and policy rates above 5% through at least early 2024. This is in sharp contrast to the start of the year, when prices reflected a peak rate of 5% and multiple rate cuts over the course of 2023.

■ **The prospect of higher interest rates has sparked moves across financial asset classes.** Treasury bonds have had poor price performance so far in February. Yields—which move in the opposite direction to price—were up by more than 50 basis points (bps) on 5-year

Investors heed the Fed's warnings

Futures-implied policy rate expectations for upcoming Fed meetings have shifted higher



Source - RBC Wealth Management, Bloomberg; data as of 6:00 am ET 2/23/23

U.S. government bonds from the start of the month through yesterday's close; other maturities saw yields increase between 30 and 50 bps in the same period. **One beneficiary of the shift toward higher yields is the U.S. dollar.** The DXY Dollar Index, which tracks the greenback on a roughly trade-weighted basis against a basket of global currencies, is up 2.4% so far in February.

CANADA

Matt Altro & Sean Killin – Toronto

■ **The January consumer price index (CPI) rose 5.9% y/y, a comforting sign that a deceleration in inflation is occurring.** This is a smaller climb than the 6.1% expected from surveyed economists, and represents a 0.5% m/m change compared to the 0.7% expectation. On the back of this reading, short-term bonds rallied, bringing down yields and propping up the Canadian dollar compared to the U.S. dollar. Although inflation data continue to come in well above the Bank of Canada's 2% target, we think the continued easing of inflation promotes a positive tone for the central bank to hold rates at 4.5% at its March 8 policy meeting.

■ **Canadian headline retail sales have continued to advance as nominal consumption metrics in the economy show some sustained signs of resilience.** Retail sales increased 0.5% m/m in December, with activity increasing in seven of the 11 retail subsectors. Motor vehicle and parts dealers led the majority of the strength in Canadian retail; however, core retail sales (which exclude gasoline and motor vehicle parts) increased by 0.4% m/m. This was primarily driven by a mix of higher prices and moderate consumption levels at general merchandise and grocery stores. Geographically, sales rose in four provinces, with concentrated strength in high-density urban areas. That being said, despite the nominal headline strength, when adjusting retail sales for seasonality and inflation, sales growth is not nearly as impressive as Canadians continue to experience the effects of above-trend inflation.

EUROPE

Frédérique Carrier – London

■ **The UK and European economies seem to be more resilient than anticipated.** Both surprised to the upside of consensus with the February S&P Global Eurozone Composite Purchasing Managers' Indexes jumping to 53 and 52.3 in the UK and Eurozone, respectively, from below 50 at year-end 2022. In both cases, strong performance of services drove the improvement, with manufacturing activity remaining below the expansionary level of 50.

■ **For the UK, we think the uptick in activity can be attributed to improving supply chains, lower natural gas prices, and rising business confidence.** The latter

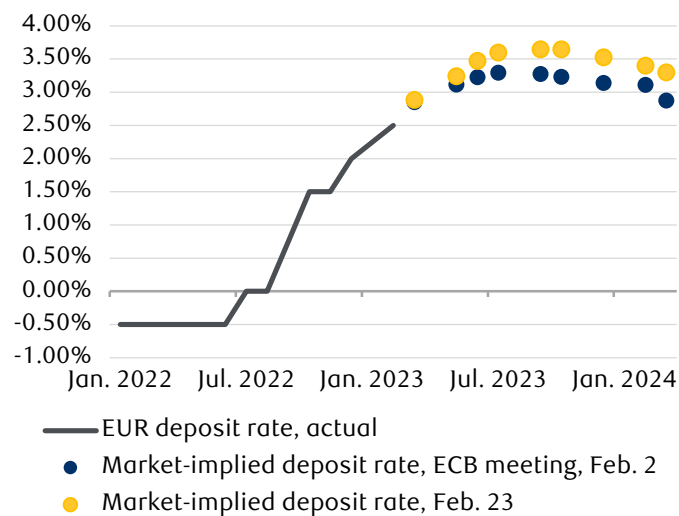
could trickle through to the household sector battered by the cost-of-living crisis, if business hiring intentions improve. For the Bank of England, which was counting on a recession and higher unemployment to rein in double-digit inflation, this may pose a challenge. Markets are now implying rates will peak slightly beyond 4.6%, remaining near that level until early next year.

■ **The European Central Bank will focus on better activity and rising wages, and will maintain its hawkish tone, in our view.** Investors are now expecting the central bank to raise rates close to the 3.75% all-time high from 2.5% currently.

■ **Earnings in Europe and the UK combined have also been resilient.** With just over half of companies having reported, positive trends are becoming apparent. Top-line growth has been very robust—over 10%—thanks to strong demand and pricing. Flow-through to earnings has been limited, however, due to higher costs including wage inflation. As a result, earnings growth was lower at 5%. It was worthy growth, in our opinion, given economic prospects were bleak only a few months ago.

■ **Statements accompanying the results suggest the corporate sector is cautiously optimistic about the economic outlook** given U.S. resilience and China reopening its economy, though it remains cautious on margins.

Markets now expect a higher European terminal rate



Source - RBC Wealth Management, Bloomberg; data as of 6:16 am ET 2/23/23

ASIA PACIFIC

Emily Li – Hong Kong

■ **Japan’s trade deficit jumped to a record ¥3.5 trillion (\$26.1 billion) in January**, up from ¥1.45 trillion in December. Besides one-off factors such as the Lunar New Year holiday, the slowing global economy could be the main reason. Export growth slowed sharply to 3.5%, dragged down by reduced demand for chip-making equipment and cars and auto parts machinery to China. Exports to the U.S. and Europe also decelerated. Meanwhile, imports increased 17.8% y/y, as costly energy shipments continued. The record trade deficit is an overhang on Japan’s economy as it struggles for recovery momentum with new Bank of Japan Governor Kazuo Ueda taking the reins in April.

■ **Initial public offerings (IPOs) in Asia’s equity markets have posted the slowest start to a year since 2019.** IPOs in Asia have raised just \$6.2 billion since the beginning of the year compared to \$4.2 billion over the same period in 2019, despite an almost 20% rally in equities from an October low. The IPOs are dominated by mainland Chinese offerings, given China’s monetary policy easing and the long lead time for share sales.

■ **Hong Kong Exchanges and Clearing Ltd. (388 HK) will study a series of proposals to optimize its trading mechanism**, including making arrangements to maintain market operations during periods of inclement weather, which means the market may no longer have “typhoon holidays”. Given the global financial industry has adjusted to remote working amid the pandemic and most orders are now received and executed electronically, halting trading is likely to be increasingly inconvenient. The rival hub in Singapore has never halted trading at its stock exchange due to weather-related events.

■ **Baidu Inc. (9888 HK) announced a \$5 billion share buyback.** The news came after the company reported upbeat results, mainly due to the better-than-expected cloud computing service offsetting the advertising business slowdown. Baidu also unveiled plans to incorporate a ChatGPT-like service in its search engine next month.

MARKET Scorecard

Data as of February 22, 2023

Equities (local currency)	Level	MTD	YTD	1 yr	2 yr
S&P 500	3,991.05	-2.1%	3.9%	-7.3%	3.0%
Dow Industrials (DJIA)	33,045.09	-3.1%	-0.3%	-1.6%	4.8%
Nasdaq	11,507.07	-0.7%	9.9%	-14.0%	-15.0%
Russell 2000	1,894.68	-1.9%	7.6%	-4.3%	-15.8%
S&P/TSX Comp	20,193.33	-2.8%	4.2%	-3.4%	9.6%
FTSE All-Share	4,322.65	1.6%	6.1%	3.6%	14.9%
STOXX Europe 600	462.22	2.0%	8.8%	1.6%	11.9%
EURO STOXX 50	4,242.88	1.9%	11.8%	6.5%	14.7%
Hang Seng	20,423.84	-6.5%	3.2%	-13.2%	-32.6%
Shanghai Comp	3,291.15	1.1%	6.5%	-4.8%	-9.6%
Nikkei 225	27,104.32	-0.8%	3.9%	2.5%	-10.1%
India Sensex	59,744.98	0.3%	-1.8%	4.3%	20.1%
Singapore Straits Times	3,300.04	-1.9%	1.5%	-3.0%	14.5%
Brazil Ibovespa	107,152.05	-5.5%	-2.4%	-5.1%	-4.9%
Mexican Bolsa IPC	53,180.99	-2.5%	9.7%	1.1%	18.3%
Gov't bonds (bps change)	Yield	MTD	YTD	1 yr	2 yr
U.S. 10-Yr Treasury	3.921%	41.5	4.7	198.2	255.6
Canada 10-Yr	3.372%	45.6	7.2	145.0	213.8
UK 10-Yr	3.600%	26.8	-7.2	212.9	292.1
Germany 10-Yr	2.520%	23.4	-5.1	227.7	285.9
Fixed income (returns)	Yield	MTD	YTD	1 yr	2 yr
U.S. Aggregate	4.80%	-2.8%	0.2%	-9.5%	-12.4%
U.S. Investment-Grade Corp	5.50%	-3.4%	0.5%	-10.1%	-13.7%
U.S. High-Yield Corp	8.86%	-2.4%	1.3%	-6.0%	-6.4%
Commodities (USD)	Price	MTD	YTD	1 yr	2 yr
Gold (spot \$/oz)	1,825.60	-5.3%	0.1%	-3.8%	0.9%
Silver (spot \$/oz)	21.51	-9.4%	-10.2%	-10.8%	-23.6%
Copper (\$/metric ton)	9,183.50	-0.2%	9.8%	-7.8%	0.6%
Oil (WTI spot/bbl)	73.75	-6.5%	-8.1%	-20.1%	19.9%
Oil (Brent spot/bbl)	80.48	-4.7%	-6.3%	-16.9%	23.4%
Natural Gas (\$/mmBtu)	2.16	-19.5%	-51.7%	-52.0%	-26.9%
Currencies	Rate	MTD	YTD	1 yr	2 yr
U.S. Dollar Index	104.5600	2.4%	1.0%	8.9%	16.2%
CAD/USD	0.7377	-1.8%	0.0%	-5.8%	-6.9%
USD/CAD	1.3556	1.9%	0.0%	6.2%	7.5%
EUR/USD	1.0603	-2.4%	-1.0%	-6.4%	-12.8%
GBP/USD	1.2043	-2.2%	-0.3%	-11.4%	-14.4%
AUD/USD	0.6805	-3.5%	-0.1%	-5.7%	-14.0%
USD/JPY	134.9000	3.7%	2.9%	17.2%	28.4%
EUR/JPY	143.0700	1.2%	1.9%	9.8%	12.0%
EUR/GBP	0.8804	-0.1%	-0.6%	5.6%	1.9%
EUR/CHF	0.9878	-0.7%	-0.2%	-5.4%	-9.3%
USD/SGD	1.3407	2.0%	0.1%	-0.4%	1.4%
USD/CNY	6.8929	2.0%	-0.1%	9.0%	6.6%
USD/MXN	18.3665	-2.5%	-5.8%	-9.5%	-11.4%
USD/BRL	5.1593	1.6%	-2.3%	2.0%	-5.5%

Equity returns do not include dividends, except for the Brazilian Ibovespa. Bond yields in local currencies. Copper Index data and U.S. fixed income returns as of Wednesday's close. Dollar Index measures USD vs. six major currencies. Currency rates reflect market convention (CAD/USD is the exception). Currency returns quoted in terms of the first currency in each pairing.

Examples of how to interpret currency data: CAD/USD 0.73 means 1 Canadian dollar will buy 0.73 U.S. dollar. CAD/USD 0.0% return means the Canadian dollar is flat in comparison to the U.S. dollar year to date. USD/JPY 134.90 means 1 U.S. dollar will buy 134.90 yen. USD/JPY 2.9% return means the U.S. dollar rose 2.9% vs. the yen year to date.

Source - Bloomberg; data as of 2/22/23

Authors

Matt Altro – Toronto, Canada

matt.altro@rbc.com; RBC Dominion Securities Inc.

Atul Bhatia, CFA – Minneapolis, United States

atul.bhatia@rbc.com; RBC Capital Markets, LLC

Kelly Bogdanova – San Francisco, United States

kelly.bogdanova@rbc.com; RBC Capital Markets, LLC

Frédérique Carrier – London, United Kingdom

frederique.carrier@rbc.com; RBC Europe Limited

Sean Killin – Toronto, Canada

sean.killin@rbc.com; RBC Dominion Securities Inc.

Emily Li – Hong Kong, China

emily.c.li@rbc.com; RBC Investment Services (Asia) Limited

Disclosures and Disclaimer

Analyst Certification

All of the views expressed in this report accurately reflect the personal views of the responsible analyst(s) about any and all of the subject securities or issuers. No part of the compensation of the responsible analyst(s) named herein is, or will be, directly or indirectly, related to the specific recommendations or views expressed by the responsible analyst(s) in this report.

Important Disclosures

In the U.S., RBC Wealth Management operates as a division of RBC Capital Markets, LLC. In Canada, RBC Wealth Management includes, without limitation, RBC Dominion Securities Inc., which is a foreign affiliate of RBC Capital Markets, LLC. This report has been prepared by RBC Capital Markets, LLC which is an indirect wholly-owned subsidiary of the Royal Bank of Canada and, as such, is a related issuer of Royal Bank of Canada.

Non-U.S. Analyst Disclosure

One or more research analysts involved in the preparation of this report (i) may not be registered/qualified as research analysts with the NYSE and/or FINRA and (ii) may not be associated persons of the RBC Wealth Management and therefore may not be subject to FINRA Rule 2241 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

In the event that this is a compendium report (covers six or more companies), RBC Wealth Management may choose to provide important disclosure information by reference. To access current disclosures, clients should refer to <https://www.rbccm.com/GLDisclosure/PublicWeb/DisclosureLookup.aspx?EntityID=2> to view disclosures regarding RBC Wealth Management and its affiliated firms. Such information is also available upon request to RBC Wealth Management Publishing, 250 Nicollet Mall, Suite 1800, Minneapolis, MN 55401-1931.

RBC Capital Markets Distribution of Ratings

For the purpose of ratings distributions, regulatory rules require member firms to assign ratings to one of three rating categories – Buy, Hold/Neutral, or Sell – regardless of a firm’s own rating categories. Although RBC Capital Markets’ ratings of Outperform (O), Sector Perform (SP), and Underperform (U) most closely correspond to Buy, Hold/Neutral and Sell, respectively, the meanings are not the same because RBC Capital Markets ratings are determined on a relative basis.

Distribution of ratings – RBC Capital Markets Equity Research

As of December 31, 2022

Rating	Count	Percent	Investment Banking Services Provided During Past 12 Months	
			Count	Percent
Buy [Outperform]	839	56.05	225	26.82
Hold [Sector Perform]	603	40.28	151	25.04
Sell [Underperform]	55	3.67	3	5.45

Explanation of RBC Capital Markets Equity Rating System

An analyst’s “sector” is the universe of companies for which the analyst provides research coverage. Accordingly, the rating assigned to a particular stock represents solely the analyst’s view of how that stock will perform over the next 12 months relative to the analyst’s sector average.

Ratings: Outperform (O): Expected to materially outperform sector average over 12 months. **Sector Perform (SP):** Returns expected to be in line with sector average over 12 months. **Underperform (U):** Returns expected to be materially below sector average over 12 months. **Restricted (R):** RBC policy precludes certain types of communications, including an investment recommendation, when RBC is acting as an advisor in certain merger or other strategic transactions and in certain other circumstances. **Not Rated (NR):** The rating, price targets and estimates have been removed due to applicable legal, regulatory or policy constraints which may include when RBC Capital Markets is acting in an advisory capacity involving the company.

As of March 31, 2020, RBC Capital Markets discontinued its Top Pick rating. Top Pick rated securities represented an analyst’s best idea in the sector; expected to provide significant absolute returns over 12 months with a favorable risk-reward ratio. Top Pick rated securities have been reassigned to RBC Capital Markets’ Outperform rated securities category, which are securities expected to materially outperform sector average over 12 months.

Risk Rating: The **Speculative** risk rating reflects a security’s lower level of financial or operating predictability, illiquid share trading volumes, high balance sheet leverage, or limited operating history that result in a higher expectation of financial and/or stock price volatility.

Valuation and Risks to Rating and Price Target

When RBC Capital Markets assigns a value to a company in a research report, FINRA Rules and NYSE Rules (as incorporated into the FINRA Rulebook) require that the

basis for the valuation and the impediments to obtaining that valuation be described. Where applicable, this information is included in the text of our research in the sections entitled “Valuation” and “Risks to Rating and Price Target”, respectively.

The analyst(s) responsible for preparing this research report have received (or will receive) compensation that is based upon various factors, including total revenues of RBC Capital Markets, and its affiliates, a portion of which are or have been generated by investment banking activities of RBC Capital Markets and its affiliates.

Other Disclosures

Prepared with the assistance of our national research sources. RBC Wealth Management prepared this report and takes sole responsibility for its content and distribution. The content may have been based, at least in part, on material provided by our third-party correspondent research services. Our third-party correspondent has given RBC Wealth Management general permission to use its research reports as source materials, but has not reviewed or approved this report, nor has it been informed of its publication. Our third-party correspondent may from time to time have long or short positions in, effect transactions in, and make markets in securities referred to herein. Our third-party correspondent may from time to time perform investment banking or other services for, or solicit investment banking or other business from, any company mentioned in this report.

RBC Wealth Management endeavors to make all reasonable efforts to provide research simultaneously to all eligible clients, having regard to local time zones in overseas jurisdictions. In certain investment advisory accounts, RBC Wealth Management or a designated third party will act as overlay manager for our clients and will initiate transactions in the securities referenced herein for those accounts upon receipt of this report. These transactions may occur before or after your receipt of this report and may have a short-term impact on the market price of the securities in which transactions occur. RBC Wealth Management research is posted to our proprietary Web sites to ensure eligible clients receive coverage initiations and changes in rating, targets, and opinions in a timely manner. Additional distribution may be done by sales personnel via e-mail, fax, or regular mail. Clients may also receive our research via third-party vendors. Please contact your RBC Wealth Management Financial Advisor for more information regarding RBC Wealth Management research.

Conflicts Disclosure: RBC Wealth Management is registered with the Securities and Exchange Commission as a broker/dealer and an investment adviser, offering both brokerage and investment advisory services. RBC Wealth Management’s Policy for Managing Conflicts of Interest in Relation to Investment Research is available from us on our website at <https://www.rbccm.com/GLDisclosure/PublicWeb/DisclosureLookup.aspx?EntityID=2>. Conflicts of interests related to our investment advisory business can be found in Part 2A Appendix 1 of the Firm’s Form ADV or the RBC Advisory Programs Disclosure Document. Copies of any of these documents are available upon request through your Financial Advisor. We reserve the right to amend or

supplement this policy, Part 2A Appendix 1 of the Form ADV, or the RBC Advisory Programs Disclosure Document at any time.

The authors are employed by one of the following entities: RBC Wealth Management USA, a division of RBC Capital Markets, LLC, a securities broker-dealer with principal offices located in Minnesota and New York, USA; by RBC Dominion Securities Inc., a securities broker-dealer with principal offices located in Toronto, Canada; by RBC Investment Services (Asia) Limited, a subsidiary of RBC Dominion Securities Inc., a securities broker-dealer with principal offices located in Hong Kong, China; by Royal Bank of Canada, Singapore Branch, a licensed wholesale bank with its principal office located in Singapore; and by RBC Europe Limited, a licensed bank with principal offices located in London, United Kingdom.

Research Resources

This document is produced by the Global Portfolio Advisory Committee within RBC Wealth Management’s Portfolio Advisory Group. The RBC WM Portfolio Advisory Group provides support related to asset allocation and portfolio construction for the firm’s Investment Advisors / Financial Advisors who are engaged in assembling portfolios incorporating individual marketable securities. The Committee leverages the broad market outlook as developed by the RBC Investment Strategy Committee, providing additional tactical and thematic support utilizing research from the RBC Investment Strategy Committee, RBC Capital Markets, and third-party resources.

Third-party Disclaimers

The Global Industry Classification Standard (“GICS”) was developed by and is the exclusive property and a service mark of MSCI Inc. (“MSCI”) and Standard & Poor’s Financial Services LLC (“S&P”) and is licensed for use by RBC. Neither MSCI, S&P, nor any other party involved in making or compiling the GICS or any GICS classifications makes any express or implied warranties or representations with respect to such standard or classification (or the results to be obtained by the use thereof), and all such parties hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability and fitness for a particular purpose with respect to any of such standard or classification. Without limiting any of the foregoing, in no event shall MSCI, S&P, any of their affiliates or any third party involved in making or compiling the GICS or any GICS classifications have any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages.

Disclaimer

The information contained in this report has been compiled by RBC Wealth Management, a division of RBC Capital Markets, LLC, from sources believed to be reliable, but no representation or warranty, express or implied, is made by Royal Bank of Canada, RBC Wealth Management, its affiliates or any other person as to its accuracy, completeness or correctness. All opinions and estimates contained in this report constitute RBC Wealth Management’s judgment as of the date of this report, are subject to change without notice and are provided in good faith but without legal responsibility. Past performance is not a guide to future performance, future returns are not guaranteed, and a loss of original capital may occur. Every province in Canada, state in the U.S., and most countries throughout the world have their own laws regulating the types of securities and other investment products which may be offered to

their residents, as well as the process for doing so. As a result, the securities discussed in this report may not be eligible for sale in some jurisdictions. This report is not, and under no circumstances should be construed as, a solicitation to act as securities broker or dealer in any jurisdiction by any person or company that is not legally permitted to carry on the business of a securities broker or dealer in that jurisdiction. Nothing in this report constitutes legal, accounting or tax advice or individually tailored investment advice. This material is prepared for general circulation to clients, including clients who are affiliates of Royal Bank of Canada, and does not have regard to the particular circumstances or needs of any specific person who may read it. The investments or services contained in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about the suitability of such investments or services. To the full extent permitted by law neither Royal Bank of Canada nor any of its affiliates, nor any other person, accepts any liability whatsoever for any direct, indirect or consequential loss arising from, or in connection with, any use of this report or the information contained herein. No matter contained in this document may be reproduced or copied by any means without the prior written consent of Royal Bank of Canada in each instance. Additional information is available upon request.

To U.S. Residents: This publication has been approved by RBC Capital Markets, LLC, Member NYSE/FINRA/SIPC, which is a U.S. registered broker-dealer and which accepts responsibility for this report and its dissemination in the United States. RBC Capital Markets, LLC, is an indirect wholly-owned subsidiary of the Royal Bank of Canada and, as such, is a related issuer of Royal Bank of Canada. Any U.S. recipient of this report that is not a registered broker-dealer or a bank acting in a broker or dealer capacity and that wishes further information regarding, or to effect any transaction in, any of the securities discussed in this report, should contact and place orders with RBC Capital Markets, LLC. International investing involves risks not typically associated with U.S. investing, including currency fluctuation, foreign taxation, political instability and different accounting standards.

To Canadian Residents: This publication has been approved by RBC Dominion Securities Inc. RBC Dominion Securities Inc.* and Royal Bank of Canada are separate corporate entities which are affiliated. * Member-Canadian Investor Protection Fund.

©Registered trademark of Royal Bank of Canada. Used under license. RBC Wealth Management is a registered trademark of Royal Bank of Canada. Used under license.

RBC Wealth Management (British Isles): This publication is distributed by RBC Europe Limited and Royal Bank of Canada (Channel Islands) Limited. RBC Europe Limited is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority (FCA registration number: 124543). Registered office: 100 Bishopsgate, London, EC2N 4AA, UK. Royal Bank of Canada (Channel Islands) Limited is regulated by the Jersey Financial Services Commission in the conduct of investment business in Jersey. Registered office: Gaspé House, 66-72 Esplanade, St Helier, Jersey JE2 3QT, Channel Islands.

To Hong Kong Residents: This publication is distributed in Hong Kong by Royal Bank of Canada, Hong Kong Branch which is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission ('SFC'), and RBC Investment Services (Asia) Limited, which is regulated by the SFC.

To Singapore Residents: This publication is distributed in Singapore by the Royal Bank of Canada, Singapore Branch, a registered entity licensed by the Monetary Authority of Singapore. This material has been prepared for general circulation and does not take into account the objectives, financial situation, or needs of any recipient. You are advised to seek independent advice from a financial adviser before purchasing any product. If you do not obtain independent advice, you should consider whether the product is suitable for you. Past performance is not indicative of future performance. If you have any questions related to this publication, please contact the Royal Bank of Canada, Singapore Branch. Royal Bank of Canada, Singapore Branch accepts responsibility for this report and its dissemination in Singapore.

© 2023 RBC Capital Markets, LLC – Member NYSE/FINRA/SIPC
© 2023 RBC Dominion Securities Inc. – Member Canadian Investor Protection Fund
© 2023 RBC Europe Limited
© 2023 Royal Bank of Canada
All rights reserved
RBC1253



Wealth
Management