

UK and European equities—Too far too soon?

Frédérique Carrier – London

From depressed levels, UK and European equities have enjoyed powerful rallies this winter as both regions avoided crises. Still, it would be prudent not to be overly optimistic, as higher interest rates impact economies with a lag. We explore the portfolio implications.

A powerful rally

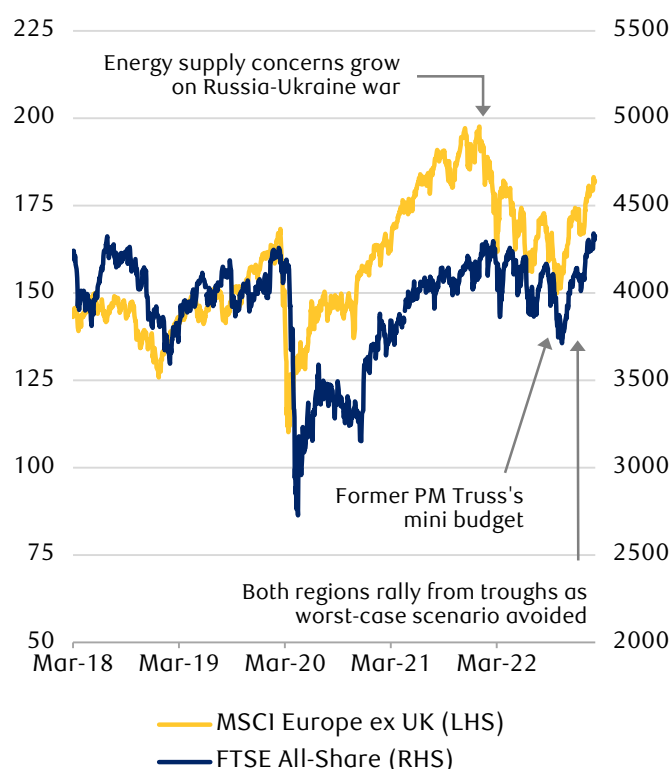
The UK and European equity markets have had strong rallies since their troughs six months ago. Back then, anxiety was at its highest—for good reasons.

In the UK, the country was in the throes of former Prime Minister Liz Truss' ill-fated economic plan, and market turmoil threatened to engulf the pensions industry. In Europe, governments feared energy shortages believing the war in Ukraine would switch off large swathes of the industrial complex during the winter.

Since then, a new government has restored some stability to the UK, while in Europe, mild weather and high levels of natural gas storage mean energy shortages are unlikely this winter.

Thus, in both instances, a crisis was avoided. And the good news kept coming. Wholesale natural gas prices retreated, benefitting both regions and lifting hopes that inflation would soon peak too. Bond yields declined from their autumn peak, underpinning equity valuations. For Europe, the reopening of the Chinese economy, to which it is heavily exposed through exports, is an additional boost. As a result, European business and economic sentiment have improved three months in a row.

UK and European indexes rally from their troughs



Source - RBC Wealth Management, Bloomberg; data through 2/8/23

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 2/8/23 market close (unless otherwise stated). Produced: 2/9/23 2:18 pm ET; Disseminated: 2/9/23 2:30 pm ET
For important disclosures, required non-U.S. analyst disclosures, and authors' contact information, see [page 6](#).

Avoiding the worst-case economic scenario, the peaking of bond yields coupled with light positioning in both regions led to powerful equity rallies, as institutional investor inflows returned. The FTSE All-Share Index is up 17 percent and the MSCI Europe ex UK Index is up 22 percent in local currency terms since their autumn troughs.

Challenged outlook despite improvements

While crises were averted in the UK and Europe, their economic backdrops are likely to be subdued.

The International Monetary Fund calculates the UK will have the worst economic performance of advanced economies, including Russia, in 2023. It estimates a 0.6 percent contraction due to the challenges we have been highlighting for months—energy shortage and cost-of-living crisis, much higher interest rates, and the fallout from Brexit.

The UK government has announced it will go ahead with the increase in energy bills planned for April 2023, suggesting the cost-of-living crisis is unlikely to let up anytime soon. Interest rates have risen to four percent, and could go slightly higher still, up from 0.1 percent in December 2021, and while market expects the Bank of England could cut rates a little by year end, monetary policy is likely to remain restrictive for a while. Higher taxes and reined-in fiscal stimulus complete the unpalatable picture.

As for Europe, economic activity is picking up nicely. The Composite Purchasing Managers' Index (PMI) for the eurozone reached 50.2 in January, up from December's 49.3 and the highest level since June 2022. Bloomberg consensus 2023 GDP expectations improved marginally to 0.15 percent growth compared to the 0.1 percent contraction estimate at the beginning of the year.

But with the European Central Bank (ECB) leaning on an aggressive monetary policy and pre-announcing another 50 basis point interest rate hike, the path for higher rates seems clear. Unlike the Fed, whose dual objectives of maximum sustainable employment and low inflation leave it some wiggle room, the ECB is solely focused on inflation. So long as core inflation is much above its two percent target, interest rates will likely be maintained.

The Bloomberg consensus expectation is for rates to peak at 3.5 percent, a high level for an economy that had functioned on negative interest rates for eight years. Energy price caps are in place in most countries until April 2024—perhaps too short a period for businesses to have the confidence to invest.

Earnings risk

Corporate earnings in the UK and Europe have been resilient so far thanks to COVID-19-induced pent-up demand at a time consumers were flush with cash from stimulus efforts. Thanks to this backdrop, corporates were able to pass through higher input costs, lifting margins which are at an all-time high.

But the situation has evolved. Pent-up demand has largely been exhausted, supply chain disruptions have largely resolved themselves, and inventories have been built up. Corporate pricing power may erode, particularly as there is increasingly widespread evidence of downtrading to cheaper goods. Importantly, we believe the impact of central bank monetary policy tightening will be felt with a lag, reducing demand. Lower revenues could translate into lower margins for companies with a high fixed cost base. In short, corporate earnings upgrades are likely to be difficult to come by.

The pause that refreshes?

The easy stock market gains may be behind us, as the economic backdrop is likely to remain challenging, more so in the UK, but also in Europe. Complacency may have set in—the VDAX, an index of volatility on the German stock market index, is at its lowest level since January 2022. Finally, geopolitics, in the form of tensions between the U.S. and China, may act as a headwind in the short term.

Following months of institutional investors' outflows as prospects darkened last year, some money is likely to return. Overall valuations for the FTSE All-Share and the MSCI Europe ex UK remain attractive, at 10x and 14x 2023 estimated earnings, respectively, much below those in the United States. This should keep these regions on investors' radar.

However, some pockets of the market appear expensive. Our national research provider estimates that European non-financial cyclical stocks seem to be discounting GDP growth rates of over four percent. Moreover, it argues that the equity valuation of China-exposed European capital goods companies relative to the market is at an all-time high.

We believe low valuation levels compared to the U.S. warrant some positioning in the UK and Europe for a globally diversified portfolio. However, we would be selective and wouldn't chase the rally. More than ever, the old adage 'investor patience will be rewarded' is likely to be true.

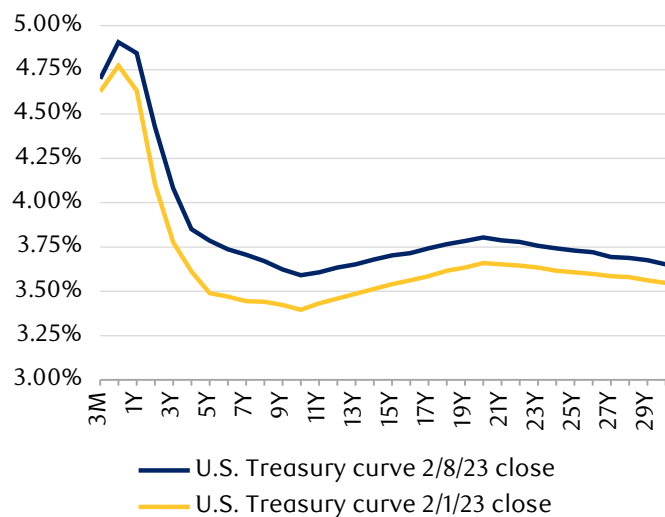
UNITED STATES

Michael Roedl – Minneapolis

■ **The U.S. labor market started the year on an exceptionally strong note** as hiring unexpectedly soared in January while at the same time unemployment fell to 3.4%, marking the lowest level since 1969. According to the jobs report, hiring was broad-based across the country as nonfarm payrolls advanced by 517,000, nearly double the gain from the previous month. In our view, the robust jobs data was likely somewhat influenced by seasonal adjustments, but we still see the data as an outlier after payrolls exceeded even the highest forecast. Nevertheless, **the strong jobs report provides the Fed with more reassurance to keep interest rates high for the time being**, and the futures market now reflects overnight policy rates moving above 5% this year, which implies up to two more 25 basis point (bps) rate hikes by May. However, **we think the Fed will stop raising rates after one more 25 bps hike in March.**

■ **U.S. fixed income markets have seen increased volatility this week** as investors continue to digest last Friday's jobs report. As of Wednesday's close, Treasury bond yields—which move inversely to price—are up anywhere between 5 bps and 15 bps from Friday depending on which area of the yield curve. Even though all Treasury bond maturities have seen price declines this week, we believe the primary drivers of the selloff differentiate between the short end versus the long end of the Treasury curve. In our view, short-term Treasury yields have risen the most this week from investors readjusting their expectations for tighter Fed policy in the near term. Meanwhile, we believe long-term yields are less influenced by Fed policy, and are instead reacting to easing recessionary risks implied by the strong jobs report.

Treasury yields are up across the curve from last week following the robust January jobs report



Source - RBC Wealth Management, Bloomberg

■ **The U.S. trade balance widened to \$67.4 billion during the month of December**, a 10.5% increase from November as imports greatly outweighed exports for the month. That said, even though imports outpaced exports by the widest margin since September, **the overall trade balance has substantially improved from the lows set in March of last year**, when the deficit reached \$106.4 billion.

CANADA

Luis Castillo & Simon Jones – Toronto

■ **Bank of Canada (BoC) Governor Tiff Macklem delivered a monetary policy speech in which he reminded Canadians of the BoC's mandate and its tools to target price stability, as well as the mechanics that drive policy and its transmission to the economy.** He reiterated the lagging impacts of monetary policy, stating "Typically, we don't see the full effects of changes in our overnight rate for 18 to 24 months", while noting Canadians are feeling some of that bite already as rising borrowing costs dent spending on big-ticket items such as furniture and appliances. Along with some gentle pushback on the market's expectation for rate cuts in H2 2023—"Bank of Canada won't be cutting interest rates anytime soon"—he also recognized that any meaningful drop in inflation would have to come from a moderation in wage growth. These comments will likely keep markets tightly glued to upcoming labour data. For tomorrow's labour report, RBC Economics is expecting a 5,000-plus job gain and an unemployment rate uptick to 5.1%.

■ **The Bank of Canada this week released its first Summary of Deliberations**, a new initiative to increase the transparency of the interest rate setting process. The report, which will be published roughly two weeks after each policy decision, outlined the rationale and key considerations underlying the decision to raise the policy rate 25 basis points on Jan. 25. The rate decision was ultimately rooted in the ongoing labour market tightness, which has placed upward pressure on wages, and the resilience of the domestic economy. However, the BoC's Governing Council noted that progress had been made on returning inflation to target and, while recognizing that the full effects of the tightening had not yet filtered through to the economy, it felt comfortable signaling a pause on further rate increases. While the pause is conditional on inflation and economic activity unfolding in line with its projections, the Governing Council wanted to send a clear message that the bar for further rate increases is now higher and would require an "accumulation of evidence" to suggest inflation is not trending towards target.

EUROPE

Rufaro Chiriseri, CFA – London

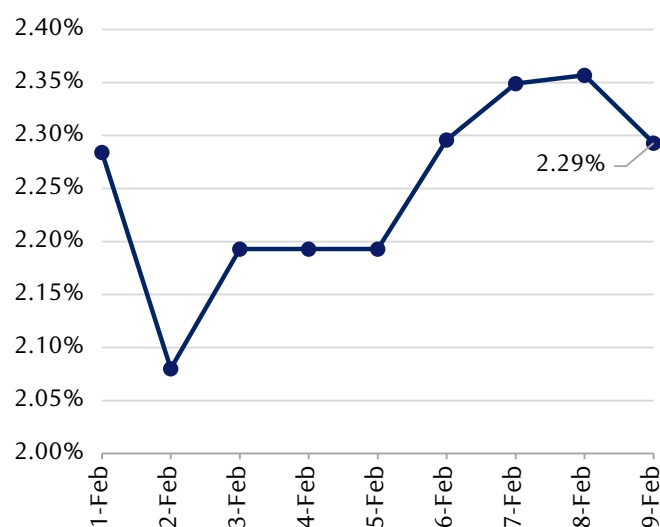
■ **Central banks have to maintain a “zen-like balance” on interest rates**, according to Bank of England (BoE) Chief Economist Huw Pill in reference to adjusting interest rates just enough to bring down inflation without breaking too many things along the way. It’s clear to us that the central bank is near the conclusion of the most aggressive tightening cycle in decades. In a separate discussion, Governor Andrew Bailey did not entirely rule out another hike, but he also equally removed language around “further increases” being necessary. Silvana Tenreyro, one of the most dovish members, has gone further and stated that interest rates are currently “too high” at 4%. When asked by the Parliament’s Treasury Committee about rate cuts, she stated that she would be considering a rate cut without a specific time frame.

■ **At this stage, only one out of nine voting members has hinted at rate cuts**; therefore, we think it’s too early to conclude that this is a consensus view. Though current market pricing shows a rate cut in Q4 2023, we think this is too early considering inflation remains high and wage growth data is not yet meaningfully declining. We still expect the Bank Rate to peak at 4.25%.

■ **The European Central Bank (ECB) is also hiking at the fastest pace on record**, but unlike the BoE that is likely to downshift to 25 basis point (bps) hikes, ECB President Christine Lagarde has all but committed to another 50 bps hike in March. We think the downtrend in inflation will tame the ECB’s hawkish tone after March,

German 10-year sovereign debt rallies

Yield of 10-year German Bunds



Source - Bloomberg; as of 2/9/23 17:20 GMT

and the central bank will likely deliver another 25 bps hike and conclude this hiking cycle at 3.25%. In the euro area’s largest economy, Germany’s official flash inflation estimates show a further decline in January to 9.2% y/y from 9.6% y/y in December, beating economists’ consensus 10% y/y expectations. On this optimistic note, bond markets ended their losing streak since last Friday as German 10-year Bunds rallied and yields fell by 8 bps to 2.28%.

ASIA PACIFIC

Nicholas Gwee, CFA – Singapore

■ **Asia Pacific equity markets have traded broadly lower so far this week** as sentiment weakened on risks the U.S. rate hike cycle could persist longer than market participants had previously anticipated. Also, investors are moving beyond the initial China reopening enthusiasm and turning their attention toward sustainability of the improvements in the Chinese economy and corporate earnings. We expect Chinese equities to remain volatile in the near term, driven by profit-taking and positioning for an economic recovery and/or policy stimulus. We are increasingly constructive on Chinese equities for a long-term time horizon compared to our view six or 12 months ago.

■ **The new Chinese cabinet will take office next month and observers expect more business-friendly and growth-supportive policies** led by China’s premier-in-waiting and No. 2 on the Politburo Standing Committee, Li Qiang. Chinese President Xi Jinping mentioned in a speech this week that China “must strive to achieve an overall improvement in economic activity this year” and “more effort should be made” to strengthen business confidence. The speech reinforced our belief that more accommodative policies are on the way.

■ **Three potential Bank of Japan (BoJ) governor candidates have emerged**—former BoJ Deputy Governors Hirohide Yamaguchi and Hiroshi Nakaso, and current Deputy Governor Masayoshi Amamiya—and there is a political divide over who will be appointed. According to a Bloomberg report, Japan’s ruling Liberal Democratic Party members see the possibility of division within the party if Prime Minister Fumio Kishida’s choice for the new BoJ chief is someone who is unlikely to follow the current path of monetary easing.

■ **Toyota Motor Corporation, the world’s largest carmaker, posted Q3 results for FY 2023** that exceeded market expectations, but has kept its conservative profit guidance in light of supply chain constraints.

MARKET Scorecard

Data as of February 8, 2023

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 0.74 means 1 Canadian dollar will buy 0.74 U.S. dollar. CAD/USD 0.8% return means the Canadian dollar rose 0.8% vs. the U.S. dollar year to date. USD/JPY 131.42 means 1 U.S. dollar will buy 131.42 yen. USD/JPY 0.2% return means the U.S. dollar rose 0.2% vs. the yen year to date.

Source - Bloomberg; data as of 2/8/23

Equities (local currency)	Level	MTD	YTD	1 yr	2 yr
S&P 500	4,117.86	1.0%	7.2%	-8.9%	5.2%
Dow Industrials (DJIA)	33,949.01	-0.4%	2.4%	-4.3%	8.2%
Nasdaq	11,910.52	2.8%	13.8%	-16.1%	-14.8%
Russell 2000	1,942.60	0.6%	10.3%	-5.0%	-15.2%
S&P/TSX Comp	20,679.54	-0.4%	6.7%	-3.3%	12.8%
FTSE All-Share	4,322.83	1.6%	6.1%	2.1%	16.0%
STOXX Europe 600	459.46	1.4%	8.1%	-1.3%	11.9%
EURO STOXX 50	4,209.15	1.1%	11.0%	1.9%	14.8%
Hang Seng	21,283.52	-2.6%	7.6%	-12.5%	-27.4%
Shanghai Comp	3,232.11	-0.7%	4.6%	-6.4%	-8.5%
Nikkei 225	27,606.46	1.0%	5.8%	1.2%	-6.1%
India Sensex	60,663.79	1.9%	-0.3%	4.9%	18.1%
Singapore Straits Times	3,388.52	0.7%	4.2%	-0.4%	15.6%
Brazil Ibovespa	109,951.49	-3.1%	0.2%	-2.0%	-8.1%
Mexican Bolsa IPC	53,125.01	-2.6%	9.6%	1.6%	20.2%
Gov't bonds (bps change)	Yield	MTD	YTD	1 yr	2 yr
U.S. 10-Yr Treasury	3.615%	10.9	-25.9	165.2	244.5
Canada 10-Yr	3.017%	10.1	-28.3	116.0	200.5
UK 10-Yr	3.313%	-1.9	-35.9	182.4	283.8
Germany 10-Yr	2.363%	7.7	-20.8	209.8	280.8
Fixed income (returns)	Yield	MTD	YTD	1 yr	2 yr
U.S. Aggregate	4.47%	-0.9%	2.2%	-8.1%	-11.6%
U.S. Investment-Grade Corp	5.11%	-0.8%	3.2%	-8.8%	-12.7%
U.S. High-Yield Corp	8.06%	0.4%	4.3%	-4.4%	-3.7%
Commodities (USD)	Price	MTD	YTD	1 yr	2 yr
Gold (spot \$/oz)	1,875.76	-2.7%	2.8%	2.7%	2.5%
Silver (spot \$/oz)	22.31	-6.0%	-6.9%	-3.8%	-18.2%
Copper (\$/metric ton)	8,893.00	-3.3%	6.3%	-9.3%	10.5%
Oil (WTI spot/bbl)	78.47	-0.5%	-2.2%	-12.2%	35.4%
Oil (Brent spot/bbl)	85.07	0.7%	-1.0%	-6.3%	40.5%
Natural Gas (\$/mmBtu)	2.42	-9.8%	-45.9%	-43.0%	-16.0%
Currencies	Rate	MTD	YTD	1 yr	2 yr
U.S. Dollar Index	103.4880	1.4%	0.0%	8.2%	13.8%
CAD/USD	0.7437	-1.0%	0.8%	-5.5%	-5.3%
USD/CAD	1.3446	1.1%	-0.8%	5.8%	5.5%
EUR/USD	1.0712	-1.4%	0.1%	-6.2%	-11.1%
GBP/USD	1.2070	-2.0%	-0.1%	-10.9%	-12.2%
AUD/USD	0.6924	-1.9%	1.6%	-3.1%	-10.1%
USD/JPY	131.4200	1.0%	0.2%	13.7%	24.9%
EUR/JPY	140.7800	-0.4%	0.3%	6.7%	11.0%
EUR/GBP	0.8875	0.7%	0.2%	5.3%	1.2%
EUR/CHF	0.9866	-0.9%	-0.3%	-6.6%	-8.9%
USD/SGD	1.3263	0.9%	-1.0%	-1.4%	-0.5%
USD/CNY	6.7921	0.5%	-1.5%	6.7%	5.3%
USD/MXN	18.9409	0.5%	-2.9%	-8.1%	-5.8%
USD/BRL	5.2013	2.5%	-1.5%	-1.1%	-2.9%

Authors

Frédérique Carrier – London, United Kingdom

frederique.carrier@rbc.com; RBC Europe Limited

Luis Castillo – Toronto, Canada

luis.castillo@rbccm.com; RBC Dominion Securities Inc.

Rufaro Chiriseri, CFA – London, United Kingdom

rufaro.chiriseri@rbc.com; RBC Europe Limited

Nicholas Gwee, CFA – Singapore

nicholas.gwee@rbc.com; Royal Bank of Canada, Singapore Branch

Simon Jones – Toronto, Canada

simon.jones@rbccm.com; RBC Dominion Securities Inc.

Michael Roedl – Minneapolis, United States

michael.roedl@rbc.com; RBC Capital Markets, LLC

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