



Perspectives from the Global Portfolio Advisory Committee

April 29, 2021

The UK's growth surge

Frédérique Carrier – London

Buoyed by a vaccine programme that's racing ahead, accelerating manufacturing activity, and a resurrection of the services sector, the UK outlook has acquired a healthier glow. All this momentum is encouraging, but we're also keeping our eye on several non-COVID wrinkles that could impact growth prospects and UK equities.

The UK's vaccination programme has been a success, both in terms of procurement, with the government establishing an industry-led vaccine manufacturing taskforce early on in the pandemic, and its rollout. With 51 percent of the population now having received at least a first dose, plans to lift all restrictions on the economy on June 21 are on track.

And along with all that, the recent economic news has been very encouraging, suggesting that the hit to the economy from the lockdown has been less than feared, and that activity has already started bouncing back in anticipation of the reopening.

Underpinned by a large savings pool, with households having accumulated more than £150 billion in additional savings versus 2019—equivalent to some eight percent of GDP—retail sales excluding automotive fuel rose by a robust 4.9 percent in March compared to the previous month, and this after a 2.5 percent gain in February. RBC Global Asset Management Inc. Chief Economist Eric Lascelles points out that the IHS Markit/CIPS Flash UK Manufacturing Purchasing Managers' Index reached a multi-decade high of 60.7 in April while the flash services reading surged to 60.1. Only three months ago the latter had languished at 39.5. The services component has thus

accelerated from a level consistent with a deep recession to one associated with rapid growth in short order.

This turnaround makes sense, in Lascelles' view, given the prospect of the reopening after a long period of stringent restrictions, the early success of the vaccination programme, and by virtue of significant economic underperformance both last year and in early 2021 that gives the UK economy plenty of room to play catch-up. Aggressive fiscal support since last year—amounting to a full 14 percent of GDP—also helped. The consensus GDP forecast for 2021 has increased from 4.5 percent in early February to 5.5 percent today. Next year should see more strong growth as the post-pandemic rebound continues, with RBC Capital Markets penciling in a robust 5.8 percent increase in 2022.

Worrisome wrinkles?

A number of risks are worth watching, however, as they could impact prospects beyond the current growth surge. COVID developments are key, of course, but the further souring of the UK-EU relationship and that with Scotland are risks worth monitoring. Finally, a premature return to fiscal orthodoxy could also restrain growth.

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.

UK/Europe frayed relations

Post-Brexit trade frictions have not been assuaged, and the UK's economic performance would have been even stronger had exports not been restrained by the new rules now governing UK and EU trade.

After plummeting by 42 percent in January, UK exports to the EU recovered in February though they remain much below the level when the UK was a member of the single market. This is not surprising as just under half of UK-based exporters had problems with post-Brexit trade rules and have either been tangled up in more red tape or endured higher costs, according to the British Chambers of Commerce. Meanwhile, exports to other countries have not picked up enough to offset the shortfall.

Trade with the EU may well remain below historical levels for a long time unless these issues are tackled. Realigning Britain's food and agriculture standards with those of the EU, for instance, would help revive food and farm animal exports, which have been hurt the most, falling by more than 60 percent on a year-over-year basis in January. But the souring of UK and EU relations makes such a realignment difficult and could lead the EU to take a hardline approach to giving UK financial services firms access to its market.

Scottish independence?

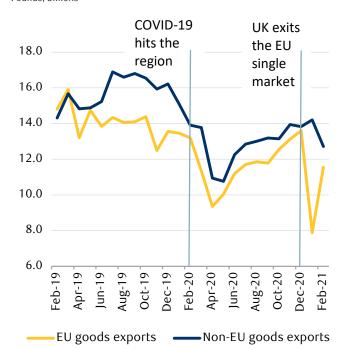
The UK's relations with Scotland are also being tested. The Scottish nationalist movement has gained momentum since the UK voted to leave the EU. Scotland voted overwhelmingly to remain in the EU in the June 2016 Brexit referendum. Scottish farming and fishing industries in particular have been deeply scarred by the new trading rules negotiated by Prime Minister Boris Johnson.

The Scottish parliamentary elections on May 6 look likely to yield a majority of pro-independence parties. A decisive victory would raise the prospect of Scotland, which contributes eight percent of the UK's GDP, breaking away from the UK with the aim of trying to join the EU as an independent country. There are many hurdles to this occurring, least of them Johnson granting the Scots a referendum and the Scottish nationalists winning it. But the uncertainty regarding this potential sequence of events could rekindle financial markets' concerns about the UK's post-Brexit future.

Fiscal rectitude

The government's intention to start to balance the books in two years' time by raising corporate taxes will be an additional burden for UK corporations. Yet a more lenient approach to regulation and competition could offset this somewhat. The government's future attitude towards these issues in a post-Brexit world is a key factor to watch.

February UK exports to EU bounce but remain weak Pounds, billions



 ${\sf EU}$ and non-EU goods exports, excluding non-monetary gold and other precious metals

Source - Office for National Statistics - UK trade statistics, RBC Wealth Management

Portfolio implications

We remain constructive on UK equities and would hold a Market Weight position. Over the past five years, due to the uncertainty following the Brexit referendum, UK equities endured severe outflows, which haven't yet been meaningfully reversed. The growing number of recent bids for UK-listed companies across a range of sectors over the past year highlights that global corporates and private equity are finding attractively valued assets in the UK, though the reappraisal of the UK equity market may take time.

In our opinion, UK equities still trade at attractive valuation levels in both absolute and relative terms. For instance, the MSCI United Kingdom Index trades at the widest discount to the MSCI World Index on a price-to-earnings basis in more than 20 years. Moreover, UK equities deliver the highest dividend yield globally at almost 3.5 percent.

The Materials and Financials sectors will likely be key beneficiaries of an economic recovery, while consumer-focused domestic stocks should be underpinned by the release of pent-up demand meeting high levels of consumer savings. We would maintain exposure to quality UK companies that possess an international footprint and trade at an unduly large discount to overseas-listed peers.

UNITED STATES

Ben Graham, CFA - Minneapolis

- U.S. equities are broadly higher as earnings season shifts to tech companies and the strong results being seen there. The S&P 500 is up 0.8% thus far this week, while the Nasdaq has climbed 0.5%. Small caps, as measured by the Russell 2000, are 1.0% higher, with the Dow Jones the only major index in the U.S. to break the pattern and trade flat. Sector leadership is evident in Energy, Financials, and Communication Services. Health Care and Utilities are the biggest laggards.
- Strong quarters from Apple Inc. and Google parent Alphabet Inc. led earnings this week, with both posting record revenues and profits. In fact, four of the five largest companies in the S&P 500 have now reported results, and on average, have beaten earnings expectations by 35%. With 60.8% of the S&P 500 market cap having reported quarterly earnings so far, results have been 24% better than expected and represent 42% bottom-line growth year over year. S&P 500 revenues are on track for 9% y/y growth. The best earnings growth is evident in Financials, Consumer Discretionary, and Materials. Industrials is the only sector to decline on a year-over-year basis, largely related to the impact of shutdowns and economic closure beginning in Q1 2020 but not really taking hold on a large scale until Q2 2020. We look for the industry to deliver sharp year-over-year earnings gains after this quarter ends.
- Key economic data, highlighted by the initial Q1 GDP release, was largely constructive in terms of furthering the evidence of a recovering U.S. economy. U.S. GDP expanded by 6.4% in Q1, slightly higher than consensus expectations. Initial jobless claims continued to trend lower as this week's 553,000 initial filings declined week over week and pulled the four-week rolling average lower to 611,000, down from the one-month ago 721,000 level. Finally, the Fed meeting this week highlighted the central bank's ongoing dovish stance as Fed Chair Jerome Powell continued to express his opinion that inflation will prove transitory, that the Fed is not close to paring back its \$120 billion per month bond-buying program, and that there are no plans to raise rates anytime soon.

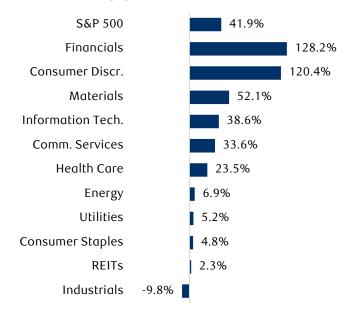
CANADA

Ryan Harder - Toronto

■ After a sharp move higher in Q1 2021, Canadian yields have moved sideways in recent weeks. This has been the case despite a series of very strong economic data prints, including higher-than-expected job creation, GDP growth, and retail sales. One aspect of rising yields that is often overlooked is the fact that a steeper curve comes with heightened expectations of rate hikes built in. In part because of these higher expectations, yields can decline

The earnings recovery is underway

S&P 500 Q1 earnings growth y/y



Source - FactSet, RBC Wealth Management; data through 4/29/21

even when other factors—such as strong economic data—might suggest otherwise. We encourage investors to remember that a key question to ask is not whether the Bank of Canada will raise rates, but whether it will raise them faster or to a higher level than what the yield curve has already priced in. Given the steepening of the curve in 2021, those expectations present a meaningfully higher hurdle for yields to continue increasing than they have for most of the past 12 months.

■ Retail sales in Canada added another strong economic print to the string of better-than-expected data in recent months. Sales in February increased by 4.8% m/m, beating the already elevated consensus expectations for a 4.0% increase. This marks the highest-ever month-over-month increase in retail sales, aside from the two months of the initial rebound in May and June of last year after the first COVID-19 lockdown ended. As the number of Canadians who are vaccinated continues to increase throughout the spring and summer, economic data is expected to remain strong. For this reason, we believe the more reliable test of the ongoing health of the Canadian economy will come later in the year when the data should be settling into a more consistent range.

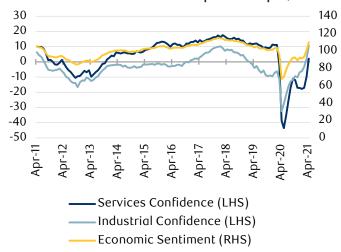
EUROPE

Thomas McGarrity, CFA & Frédérique Carrier – London

■ Banks was the best-performing sub-sector during the week, up almost 7%, boosted by rising sovereign bond yields as well as better-than-expected Q1 results, with several of the region's lenders reporting earnings above consensus forecasts. Central to banks' earnings beats has been the release of loan-loss provisions.

Banks built up sizeable reserve buffers through 2020 as a precaution against potential soured loans as a result of the pandemic. However, given the brightening outlook for the economy, many are starting to release funds from their bad loan reserves. For example, in the instances of UK-listed banks HSBC and Lloyds Banking Group, consensus estimates were for further loan-loss provisions to be made, but both wrote back impairment charges in the UK, reducing their bad loan reserves in light of the improved UK economic outlook (as outlined in the <u>feature article</u>).

- Consensus earnings revisions have been rising for banks recently, helped by falling loan-loss provisions. Provided the economic recovery remains on track, we believe the release of provisions can remain a tailwind for banks' earnings in the quarters ahead, supporting further positive earnings revisions for the sub-sector.
- The Italian parliament approved Prime Minister Mario Draghi's €261 billion spending plan to revive the economy, drawing from the EU's €750 billion recovery fund of which Draghi's country is the largest beneficiary. The stimulus package, representing some 14% of Italy's GDP, will focus on six areas, including green infrastructure projects and digitisation. The spending will be accompanied by a tough reform programme tackling public administration and the legal system in particular. It will be challenging to implement. Moreover, Draghi's tenure will likely end in 2023 whereas his spending plan runs until 2026. His programme could thus be put in jeopardy after he leaves. Yet, this is an opportunity for the country to improve its meek growth profile, in our opinion.
- Meanwhile, the European Commission's economic settlement from the European Commission from the European Commission



Source - Bloomberg, RBC Wealth Management; monthly data through April 2021

above expectations and March's 100.9 level. All large countries posted an improvement in sentiment. Industrial confidence is now at a record high while the services sector saw a notable improvement. That the recovery in sentiment continued despite the April lockdowns suggests to us the economy should gain momentum as lockdowns are eased.

ASIA PACIFIC

Jasmine Duan – Hong Kong & Nicholas Gwee, CFA – Singapore

- Asia equities traded broadly higher during the week as investors expect another round of fiscal stimulus in the U.S., and the Federal Reserve's pledge to keep interest rates low could drive more inflows to emerging markets.
- Chinese regulators announced on Monday they are conducting an antitrust investigation on food-delivery giant Meituan (3690 HK). This is the second antitrust probe into a big tech company in China. According to the current regulation, companies can be fined 1%–10% of their annual revenue. But the markets don't expect Meituan to face a harsher penalty than Alibaba's 4% of 2019 domestic revenue.
- Chinese authorities are investigating the IPO process of Ant Group, a company that was expected to be listed in China and Hong Kong last year. Key questions raised by regulators include: why was Ant's IPO fast-tracked and did the company make sufficient disclosures and receive preferential treatment in the allocation of its stock code? An unsubstantiated report in Bloomberg said regulators will continue to support Ant's listing once the probe is completed and the company overhauls its business.
- Samsung Electronics Co. (005930 KS) reported net income of KRW7.1 trillion for Q1 2021, beating the KRW6.7 trillion Bloomberg estimate. However, the company warned of continued semiconductor shortages as the global economy recovers from the COVID-19 pandemic. Samsung said it will step up production to address the shortages and expects chip earnings to increase substantially in Q2.
- Japan's retail sales increased 1.2% m/m in March, higher than economists' 0.6% estimate even as businesses continued to operate under reduced hours. The positive numbers point to increasing resilience in spending despite emergency guidelines limiting activity, and it prompted an upgrade in the economy ministry's assessment of the trend.

MARKET Scorecard

Data as of April 29, 2021

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 0.81 means 1 Canadian dollar will buy 0.81 U.S. dollar. CAD/USD 3.7% return means the Canadian dollar rose 3.7% vs. the U.S. dollar year to date. USD/JPY 108.91 means 1 U.S. dollar will buy 108.91 yen. USD/JPY 5.5% return means the U.S. dollar rose 5.5% vs. the yen year to date.

Source - Bloomberg; data as of 4:35 pm ET 4/29/21

Equities (local currency)	Level	MTD	YTD	1 уг	2 yr
S&P 500	4,211.47	6.0%	12.1%	43.3%	43.1%
Dow Industrials (DJIA)	34,060.36	3.3%	11.3%	38.3%	28.3%
Nasdaq	14,082.55	6.3%	9.3%	58.0%	72.8%
Russell 2000	2,295.46	3.4%	16.2%	68.7%	43.6%
S&P/TSX Comp	19,255.92	3.0%	10.5%	26.4%	16.0%
FTSE All-Share	3,977.04	3.8%	8.3%	18.0%	-2.5%
STOXX Europe 600	438.77	2.1%	10.0%	26.4%	12.1%
EURO STOXX 50	3,996.90	2.0%	12.5%	33.4%	14.1%
Hang Seng	29,303.26	3.3%	7.6%	18.9%	-2.0%
Shanghai Comp	3,474.90	1.0%	0.1%	23.1%	13.5%
Nikkei 225	29,053.97	-0.4%	5.9%	47.0%	30.5%
India Sensex	49,765.94	0.5%	4.2%	52.1%	27.4%
Singapore Straits Times	3,221.58	1.8%	13.3%	25.1%	-5.4%
Brazil Ibovespa	120,065.80	2.9%	0.9%	44.4%	24.8%
Mexican Bolsa IPC	48,897.79	3.5%	11.0%	32.6%	8.8%
Gov't bonds (bps change)	Yield	MTD	YTD	1 уг	2 уг
U.S. 10-Yr Treasury	1.634%	-10.6	72.1	100.7	-89.1
Canada 10-Yr	1.563%	0.5	88.6	99.7	-15.9
UK 10-Yr	0.843%	-0.2	64.6	55.8	-31.4
Germany 10-Yr	-0.193%	9.9	37.6	30.2	-19.6
Fixed income (returns)	Yield	MTD	YTD	1 yr	2 yr
U.S. Aggregate	1.53%	0.8%	-2.6%	-0.3%	16.7%
U.S. Investment-Grade Corp	2.18%	1.1%	-3.6%	4.4%	22.4%
U.S. High-Yield Corp	4.04%	1.0%	1.9%	20.0%	19.6%
Commodities (USD)	Price	MTD	YTD	1 уг	2 уг
Gold (spot \$/oz)	1,772.65	3.8%	-6.6%	3.5%	38.5%
Silver (spot \$/oz)	26.10	6.9%	-1.1%	70.7%	75.0%
Copper (\$/metric ton)	9,880.25	12.4%	27.5%	88.8%	54.3%
Oil (WTI spot/bbl)	65.01	9.9%	34.0%	331.7%	2.4%
Oil (Brent spot/bbl)	68.56	7.9%	32.4%	204.2%	-4.8%
Natural Gas (\$/mmBtu)	2.91	11.4%	14.5%	55.5%	12.1%
Currencies	Rate	MTD	YTD	1 yr	2 yr
U.S. Dollar Index	90.6250	-2.8%	0.8%	-9.0%	-7.4%
CAD/USD	0.8142	2.3%	3.7%	13.0%	9.6%
USD/CAD	1.2282	-2.2%	-3.5%	-11.5%	-8.7%
EUR/USD	1.2122	3.3%	-0.8%	11.5%	8.4%
GBP/USD	1.3940	1.1%	2.0%	11.8%	7.8%
AUD/USD	0.7766	2.2%	0.9%	18.4%	10.1%
USD/JPY	108.9100	-1.6%	5.5%	2.1%	-2.5%
EUR/JPY	132.0300	1.7%	4.6%	13.8%	5.7%
EUR/GBP	0.8696	2.2%	-2.7%	-0.3%	0.6%
EUR/CHF	1.1015	-0.5%	1.9%	4.0%	-3.4%
USD/SGD	1.3259	-1.4%	0.3%	-6.1%	-2.6%
USD/SGD USD/CNY	1.3259 6.4722	-1.4% -1.2%	0.3%	-6.1% -6.8%	-2.6% -3.9%

Authors

Frédérique Carrier - London, United Kingdom

frederique.carrier@rbc.com; RBC Europe Limited

Ben Graham, CFA – Minneapolis, United States

benjamin.graham@rbc.com; RBC Capital Markets, LLC

Ryan Harder – Toronto, Canada

ryan.harder@rbccm.com; RBC Dominion Securities Inc.

Thomas McGarrity, CFA – London, United Kingdom

thomas.mcgarrity@rbc.com; RBC Europe Limited

Jasmine Duan - Hong Kong, China

jasmine.duan@rbc.com; RBC Investment Services (Asia) Limited

Nicholas Gwee, CFA - Singapore

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

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: Ryan Harder, an employee of RBC Wealth Management USA's foreign affiliate RBC Dominion Securities Inc.; Frédérique Carrier and Thomas McGarrity, employees of RBC Wealth Management USA's foreign affiliate RBC Europe Limited; Jasmine Duan, an employee of RBC Investment Services (Asia) Limited; and Nicholas Gwee, an employee of Royal Bank of Canada, Singapore Branch contributed to the preparation of this publication. These individuals are not registered with or qualified as research analysts with the U.S. Financial Industry Regulatory Authority ("FINRA") and, since they are not associated persons of RBC Wealth Management, they may not be subject to FINRA Rule 2241 governing communications with subject companies, the making of public appearances, and the trading of securities in accounts held by research analysts.

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/

<u>DisclosureLookup.aspx?EntityID=2</u> to view disclosures regarding RBC Wealth Management and its affiliated firms. Such information is also available upon request to RBC Wealth Management Publishing, 60 South Sixth St, Minneapolis, MN 55402.

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 our ratings are determined on a relative basis

Distribution of ratings – RBC Capital Markets, LLC Equity Research As of March 31, 2021

			Investment Banking Services Provided During Past 12 Months		
Rating	Count	Percent	Count	Percent	
Buy [Outperform]	762	55.46	299	39.24	
Hold [Sector Perform]	559	40.68	179	32.02	
Sell [Underperform]	53	3.86	4	7.55	

Explanation of RBC Capital Markets, LLC 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.

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 our Outperform rated securities category, which are securities expected to materially outperform sector average over 12 months.

Ratings: Outperform (0): 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.

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 Wealth Management 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, LLC, and its affiliates, a portion of which are or have been generated by investment banking activities of RBC Capital Markets, LLC 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.

References herein to "LIBOR", "LIBO Rate", "L" or other LIBOR abbreviations means the London interbank offered rate as administered by ICE Benchmark Administration (or any other person that takes over the administration of such rate).

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 RBC Investment Solutions (CI) 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. RBC Investment Solutions (CI) 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, registered company number 119162.

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.

© 2021 RBC Capital Markets, LLC – Member NYSE/FINRA/SIPC © 2021 RBC Dominion Securities Inc. – Member Canadian Investor Protection Fund © 2021 RBC Europe Limited © 2021 Royal Bank of Canada All rights reserved RBC1253

