



Perspectives from the Global Portfolio Advisory Committee

September 30, 2021

Slow down, look around

Kelly Bogdanova – San Francisco

Given the tear it's been on since the pandemic lows, it shouldn't come as a surprise that the stock market would take a much-needed rest, even more so as it's navigating through some challenges. And while there could be more volatility ahead, we think the bull market can work through the headwinds and ultimately move higher.

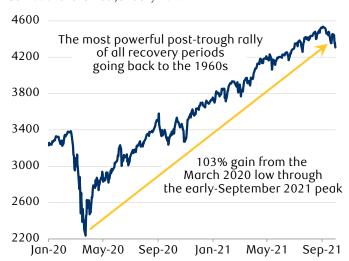
The mood of the U.S. equity market has shifted lately from that of a charging bull to a resting bull.

The S&P 500 surged 103 percent from the COVID-19 low back in March 2020 through early September 2021. This is by far the most powerful post-trough rally of all recovery periods during similar time frames going back to the 1960s. The next-best results were 61–62 percent rallies in 2009, 1982, and 1974.

Recently, the index has cooled off, pulling back 5.1 percent since Sept. 2, and has broken a seven-month winning streak while facing numerous headwinds, some of which are unique to the pandemic:

- Persistent COVID-related distortions on supply chains, energy prices, inflation, the labor market, and overall economic momentum;
- A number of Q3 earnings missteps and warnings due to the above issues by companies in a wide range of economically-sensitive (cyclical) industries;
- Angst about legislation in Washington on the debt ceiling, two large spending bills, and potential tax hikes on corporations and upper-income individuals;
- Jitters about Chinese GDP growth related to electricity rationing (including on the all-important industrial

The U.S. market has come a long way in a short time S&P 500 level since January 2020



Source - RBC Wealth Management, Bloomberg; data through 9/30/21

sector) caused by high coal prices and other factors, and lingering Evergrande and property market risks;

 The Fed's likely forthcoming policy shift to begin tapering asset purchases later this year, and the anticipation of rate hikes further out.

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 9/30/21 market close, ET (unless otherwise stated). Produced: Sept. 30, 2021 4:01 pm ET; Disseminated: Sept. 30, 2021 4:50 pm ET For important disclosures, required non-U.S. analyst disclosures, and authors' contact information, see page 6.

We think the market can ultimately work through these challenges—leading economic indicators are still flashing favorable signals—but there could be more volatility in coming weeks and months.

Washington wrangling

We don't want to seem dismissive about the debt ceiling—it's a real head-scratcher for a number of reasons, and the mounting federal debt continues to give us pause. Nevertheless, RBC Capital Markets, LLC's Chief U.S. Economist Tom Porcelli expects it to play out the way it has in the past. Drama should persist in the near term, and then he thinks Congress will agree to raise the debt ceiling in a timely manner such that it averts a self-inflicted crisis.

While political maneuvering surrounding the very large \$1 trillion infrastructure and \$3.5 trillion budget bills continues to generate headlines, Porcelli does not believe their passage would materially boost economic growth. The total spending would likely be lower than the proposed amount, it would be spread out over many years, and potential corporate tax hikes could offset at least some of the stimulus. Lori Calvasina, head of U.S. equity strategy at RBC Capital Markets, LLC, said institutional investors (portfolio managers of mutual funds, pension funds, and hedge funds) view these bills as "show me" stories. Some companies would benefit from the infrastructure and/or green energy spending provisions, but the bills are not being seen as meaningful catalysts for overall earnings growth or the market.

Calvasina thinks the impact of a moderate corporate tax hike, such as raising the statutory rate from 21 percent to 25 percent (the consensus view), is largely factored into the market. While a hike of this magnitude is not yet officially reflected in the bottom-up consensus forecasts of analysts for 2022 and 2023, she believes institutional investors have generally built it into their earnings forecasts.

Chain reactions

Supply chain issues are taking their toll, and have likely constrained Q3 economic and earnings growth. In terms of the market, Calvasina said a key problem is all of the uncertainty associated with this issue at the industry and company levels. The mounting number of Q3 earnings warnings is a signal that some management teams are having a difficult time coping with supply chain constraints, and institutional investors are becoming more skeptical about what management teams are actually saying about these challenges. Also, institutional investors don't have a clear sense about what will improve the situation or when it will happen. Calvasina expects supply chain pressures to recede as the COVID-19 pandemic loosens its grip, but she points out this is not a silver bullet, as other factors are at play.

At the very least, we expect more market volatility leading up to or during the Q3 earnings season due to headwinds

RBC Capital Markets has raised estimates, and is factoring in the possibility of a tax hike

RBC's annual EPS estimates for the S&P 500 versus consensus estimates



- Old RBC estimates (published in July)
- New RBC estimates (assumes no corporate tax hike)
- New RBC estimates (assumes corporate tax hike*)
- Consensus estimates
- *Assumes a corporate tax hike of four percentage points, which would take the statutory rate from 21% to 25% beginning in 2022.

Source - RBC Capital Markets U.S. Equity Strategy; consensus estimates are Refinitiv I/B/E/S bottom-up data as of 9/24/21

related to supply chains, high energy input costs, inflation, and labor market constraints. It would not be surprising to us if the earnings beat rate falls short of the lofty levels achieved in the five preceding quarters and is punctuated by some high-profile earnings misses. The good news is that even those management teams that are struggling with supply chain challenges are still positive about customer demand.

More important than Q3 earnings trends is the longer-term path of earnings growth. Calvasina recently raised her S&P 500 annual earnings estimates, and has incorporated the corporate tax hike scenario, as the chart illustrates. If her 2022 earnings level is achieved, it would translate to 11 percent year-over-year growth without a corporate tax hike or 5.5 percent growth with the hike—not bad, in our view, considering this would come on top of the estimated 43 percent surge in earnings this year. Overall, Calvasina characterizes her new estimates as "conservative" and notes the potential for upside if corporate stock buybacks exceed her current expectations.

Structural support

It's not unusual for the market to take a much-needed rest following a strong run, especially after earnings growth peaks on a year-over-year basis—which we think occurred in the second quarter of this year.

Despite the unique COVID-related headwinds, leading economic indicators are still signaling that recession risks are nearly nonexistent, household fundamentals remain strong, and earnings growth should persist, at least at a moderate pace. Therefore, we continue to anticipate worthwhile market gains over the next 12 months, albeit with less robust returns than during the last 12 months.

UNITED STATES

Atul Bhatia, CFA - Minneapolis

- Reserve Banks unexpectedly resigned this week.

 Neither of the moderately hawkish officials currently vote on monetary policy, although their successors will have voting roles in 2022 and 2023, respectively. In addition to those vacancies, four Fed governor positions are open or will be next year, including the Fed Chair role in February.

 Personnel changes may introduce a slight shift in central bank rhetoric, but we expect the same broad policy outcome: the Fed will begin reducing its monthly bond purchases this year and will evaluate rate hikes once that process concludes, likely in mid-2022.
- Congress faces an Oct. 1 deadline to avoid a partial government shutdown and an estimated Oct. 18 cutoff date to prevent a default by the U.S. government. We expect the required legislation to pass in time and we see little realistic risk of a Treasury default. The path forward on fiscal measures is less clear—the infrastructure bill that passed with bipartisan support in the Senate may fail in the House due to the combined opposition of House Republicans and progressive Democrats. The broader, multitrillion-dollar Biden fiscal plan faces a potentially fatal challenge as conservative and progressive Democrats remain far apart; press reports indicate a potential \$2 trillion difference in their respective hard limits on the size of any fiscal package.
- Treasury bond prices declined this week as markets continued to digest the likely timeline for Fed action. Yields, which move inversely to prices, rose above 2.05% on government bonds maturing in 30 years, the highest level since late June. One notable difference from the early summer is that yields on shorter-maturity bonds have risen in lockstep with their longer counterparts. The result is a so-called flatter yield curve, typically a sign that markets are concerned about long-term growth. We think the outcome of the current fiscal debate is likely to play an important role in Treasury market pricing.

CANADA

Sean Killin & Richard Tan, CFA – Toronto

■ The Canadian federal election concluded in much the same way as it began, with the Liberals finding a successful outcome and the continuation of a minority government. The Liberal government campaigned to create more affordable housing for Canadians, promising more supply in the coming years and by introducing new regulations around foreign ownership and anti-flipping taxes. On the other side of the ledger, the Liberals

Absolute yields rise; relative rate recovery lags



Source - RBC Wealth Management, Bloomberg

proposed a reduction in high-ratio mortgage insurance rates (i.e., down payments of less than 20%) and the development of a new tax-sheltered investment account for new homebuyers. In our opinion, the effort to curb the cost of home ownership through the former policy is offset somewhat by the latter policy's potential to generate greater housing demand, all else equal. Overall above-average savings rates, low interest rates, easy access to credit, and demand for larger spaces have propelled home prices higher over the past year. Heading into 2022, we believe it will be important to pay close attention to the housing market as the prospect of higher interest rates could weigh on housing valuations.

 Inflation is hitting Canadian consumers at the grocery store, as pandemic-related disruptions that impacted food production and supply bottlenecks have yet to subside. According to a recent study published by Dalhousie University's Agri-Food Analytics Lab, Canadian food prices are up 5% over the past 12 months. This stands in contrast to numbers published by Statistics Canada showing food inflation at 2.7% over the same period. The study surveyed nearly 10,000 Canadians and concluded that the prices of meat products led the rise of inflation, increasing more than 10% in the past six months. Nearly 49% of survey respondents said they had curtailed their meat purchases as a result. According to Bloomberg, suppliers have also shrunk portion sizes, yet have maintained similar packaging and prices, in a strategy known as "shrinkflation." With inflation in Canada running meaningfully above the Bank of Canada's target, financial markets are currently pricing in possible rate hikes by the end of 2022.

EUROPE

Thomas McGarrity, CFA & Frédérique Carrier – London

- The British pound declined to a 2021 low of 1.34 to the U.S. dollar. Counterintuitively, this coincided with the UK 10-year bond yield jumping above 1%, from a low of 0.47% in August, as markets reacted to hawkish comments from Bank of England Governor Andrew Bailey. The fact that the pound and rates are moving in opposite directions probably signals markets are concerned about the potential for monetary policy tightening to cause a slowdown in activity at a time when fiscal stimulus is being curtailed and both energy prices and taxes are increasing.
- RBC Capital Markets surmises the pound may be starting to behave like an emerging market currency, with wider spreads reflecting increasing credit risk (as opposed to cyclical strength) and resulting in a higher risk premium in the currency. RBC Capital Markets points to the large financial imbalances that existed in the UK even before the COVID-19-induced fiscal stimulus, and warns that the pound's behaviour could be an early indicator of markets starting to look more critically at funding needs and reliance on foreign capital.
- The STOXX Europe 600 Index touched a twomonth low amid the sharp rise in long-term interest rates. Technology stocks led the selloff, while Energy and Financials outperformed. Banks are the biggest beneficiaries of rising yields and a steepening yield curve; they are the best performing sub-sector in the region YTD, with a total return of more than 30%. We see scope for banks' outperformance to continue, given the prospect for yields to move higher in the short term.
- ASML, Europe's biggest tech firm by market capitalisation, provided an update on its long-term outlook and raised its financial guidance. The manufacturer of semiconductor capital equipment (e.g., lithography, metrology, and inspection systems) sees industry megatrends, such as cloud computing, 5G, and artificial intelligence, fuelling growth across the semiconductor industry and enabling a strong growth opportunity for the company over the next decade. The company expects this to support an annual revenue growth rate of around 11% between 2020 and 2030.

ASIA PACIFIC

Jasmine Duan – Hong Kong

■ At least 20 provinces in China have implemented power usage restrictions. Companies in industries that consume significant amounts of electricity are required to reduce production, and some companies are required to move production to weekends and nighttime to avoid using large amounts of power during peak hours. There are several reasons behind the power shortages,

- which include strong export demand and manufacturing activities as the global economy has reopened, supply constraints due to high coal prices, lackluster hydropower generation this year, and local governments needing to meet year-end energy-consumption and energy-intensity reduction targets.
- The market expects the power shortages will last into Q4 2021. Upstream industries and industries that consume large amounts of electricity are likely to feel a direct impact on production in the short term. The impact to downstream manufacturers, such as semiconductor, tech hardware, and auto companies, should be manageable for now. We will monitor how the situation develops in the next few weeks.
- China's economic growth in Q3 and Q4 could be affected by the power shortages. The official Manufacturing Purchasing Managers' Index (PMI) for September may already show us some early signs of the impact, as it fell to 49.6, below the consensus forecast of 50.0. This is the lowest reading since March 2020. We expect economists to lower their forecasts of China's GDP growth for this year and next year.
- Fumio Kishida has won the Liberal Democratic Party's presidential election and is set to become the next prime minster of Japan after the one-year term of former Prime Minister Yoshihide Suga. The market does not anticipate major changes in the overall macro policy framework. But Kishida supports lifting COVID-19 restrictions and wants to put together an economic stimulus package worth trillions of yen before the end of the year. Investors expect the Bank of Japan will likely maintain its 2% inflation target.

China Manufacturing PMI



Source - RBC Wealth Management, Bloomberg; monthly data since January 2018

MARKET Scorecard

Data as of September 30, 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 0.78 means 1 Canadian dollar will buy 0.78 U.S. dollar. CAD/USD 0.5% return means the Canadian dollar rose 0.5% vs. the U.S. dollar year to date. USD/JPY 111.24 means 1 U.S. dollar will buy 111.24 yen. USD/JPY 7.7% return means the U.S. dollar rose 7.7% vs. the yen year to date.

Source - Bloomberg; data as of 4:35 pm ET 9/30/21

Equities (local currency)	Level	MTD	YTD	1 уг	2 уг
S&P 500	4,307.54	-4.8%	14.7%	28.1%	44.7%
Dow Industrials (DJIA)	33,843.92	-4.3%	10.6%	21.8%	25.7%
Nasdaq	14,448.58	-5.3%	12.1%	29.4%	80.6%
Russell 2000	2,204.37	-3.1%	11.6%	46.2%	44.7%
S&P/TSX Comp	20,070.25	-2.5%	15.1%	24.5%	20.5%
FTSE All-Share	4,058.96	-1.2%	10.5%	23.7%	-0.1%
STOXX Europe 600	454.81	-3.4%	14.0%	26.0%	15.7%
EURO STOXX 50	4,048.08	-3.5%	13.9%	26.8%	13.4%
Hang Seng	24,575.64	-5.0%	-9.8%	4.8%	-5.8%
Shanghai Comp	3,568.17	0.7%	2.7%	10.9%	22.8%
Nikkei 225	29,452.66	4.9%	7.3%	27.0%	35.4%
India Sensex	59,126.36	2.7%	23.8%	55.3%	52.9%
Singapore Straits Times	3,086.70	1.0%	8.5%	25.1%	-1.1%
Brazil Ibovespa	110,979.10	-6.6%	-6.8%	17.3%	6.0%
Mexican Bolsa IPC	51,385.55	-3.6%	16.6%	37.2%	19.5%
Gov't bonds (bps change)	Yield	MTD	YTD	1 yr	2 yr
U.S. 10-Yr Treasury	1.494%	18.5	58.1	81.0	-17.0
Canada 10-Yr	1.509%	29.3	83.2	94.8	14.8
UK 10-Yr	1.022%	30.8	82.5	79.3	53.4
Germany 10-Yr	-0.199%	18.4	37.0	32.3	37.2
Fixed income (returns)	Yield	MTD	YTD	1 уг	2 yr
U.S. Aggregate	1.57%	-0.9%	-1.6%	-0.9%	18.0%
U.S. Investment-Grade Corp	2.12%	-0.9%	-1.2%	1.9%	25.5%
U.S. High-Yield Corp	3.97%	0.0%	4.6%	11.3%	22.8%
Commodities (USD)	Price	MTD	YTD	1 уг	2 yr
Gold (spot \$/oz)	1,757.58	-3.1%	-7.4%	-6.8%	19.4%
Silver (spot \$/oz)	22.20	-7.1%	-15.9%	-4.5%	30.6%
Copper (\$/metric ton)	9,174.00	-3.7%	18.4%	37.6%	61.1%
Oil (WTI spot/bbl)	75.03	9.5%	54.6%	86.5%	38.8%
Oil (Brent spot/bbl)	78.52	7.6%	51.6%	91.7%	29.2%
Natural Gas (\$/mmBtu)	5.92	35.3%	133.2%	134.3%	154.1%
Currencies	Rate	MTD	YTD	1 уг	2 уг
U.S. Dollar Index	94.2480	1.8%	4.8%	0.4%	-5.2%
CAD/USD	0.7890	-0.5%	0.5%	5.1%	4.5%
USD/CAD	1.2674	0.5%	-0.4%	-4.8%	-4.3%
EUR/USD	1.1578	-2.0%	-5.2%	-1.2%	6.2%
GBP/USD	1.3474	-2.0%	-1.4%	4.3%	9.6%
AUD/USD	0.7228	-1.2%	-6.1%	0.9%	7.1%
USD/JPY	111.2400	1.1%	7.7%	5.5%	2.9%
EUR/JPY	128.8000	-0.9%	2.1%	4.2%	9.3%
EUR/GBP	0.8593	0.1%	-3.9%	-5.3%	-3.1%
EUR/CHF	1.0791	-0.2%	-0.2%	0.0%	-0.8%
USD/SGD	1.3579	1.0%	2.7%	-0.5%	-1.7%
USD/CNY	6.4448	-0.2%	-1.3%	-7.2%	-9.8%
USD/MXN	20.6139	2.7%	3.5%	-6.8%	4.5%
USD/BRL	5.4478	5.7%	4.8%	44.2%	31.1%

Authors

Kelly Bogdanova - San Francisco, United States

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

Atul Bhatia, CFA – Minneapolis, United States

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

Sean Killin - Toronto, Canada

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

Richard Tan, CFA - Toronto, Canada

richard.tan@rbc.com; RBC Dominion Securities Inc.

Frédérique Carrier – London, United Kingdom

frederique.carrier@rbc.com; RBC Europe Limited

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

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.

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, 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 June 30, 2021

			Investment Banking Services Provided During Past 12 Months		
Rating	Count	Percent	Count	Percent	
Buy [Outperform]	787	55.70	318	40.41	
Hold [Sector Perform]	575	40.69	173	30.09	
Sell [Underperform]	51	3.61	4	7.84	

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 (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.

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

