



Perspectives from the Global Portfolio Advisory Committee

June 17, 2021

A first step on the long journey to rate hikes?

Atul Bhatia, CFA - Minneapolis

At its June meeting, the Federal Reserve opened the door to discussing asset purchase tapering and future interest rate increases. But with a long road still ahead, and inflation top-of-mind for many, we look at the economic factors that could shape future Fed policy.

The U.S. Federal Reserve struck a more hawkish note than markets expected at its June meeting, driving bond prices lower and yields higher across the Treasury curve. Although we share the view that the meeting is important in understanding future Fed policy moves, we would caution that the initial market reaction likely overstates the impact of the changing Fed projections and the language of the post-meeting statement.

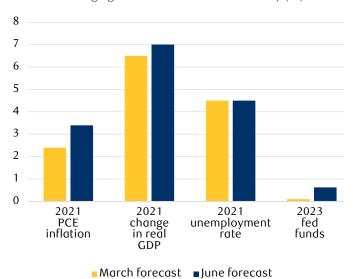
Interest rates: Big headline, less substance

In terms of policy, the central bank acted as expected, maintaining the current federal funds rate target range and the \$120 billion monthly asset purchase program. At the same time, the members of the Federal Open Market Committee (FOMC)—the rate-setting group within the Fed—updated their individual economic projections for growth, inflation, and policy rates. The previous survey, in March, produced a median projection for rates at zero through the 2023 end of the forecast period; in this month's report, however, the median projection includes two rate hikes in 2023, leading to a federal funds rate of 0.625 percent.

We think this change in the median forecast rate should carry little weight in investor thinking. Member projections are snapshots in time and do not represent a plan for

Bump in 2021 growth and inflation projections leads to 2023 rate hike expectations

The Fed's changing forecasts for the U.S. economy (%)



Source - RBC Wealth Management, U.S. Federal Reserve

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 6/17/21 market close, ET (unless otherwise stated). Produced: June 17, 2021 3:52 pm ET; Disseminated: June 17, 2021 4:52 pm ET For important disclosures, required non-U.S. analyst disclosures, and authors' contact information, see page 6.

future policy, a point Fed Chair Jerome Powell made during his post-meeting press conference. In addition, by 2023 the composition of the FOMC will have changed, with the rotating voting slots shifting to more dovish members. Prior Fed projections have not been particularly accurate predictors of policy rate changes, especially when dealing with minor rate differences years in the future.

The taper talk has begun

While the June meeting may not have provided a clear view of future rate hikes, we think the meeting did move the timeline on tapering, as the Fed acknowledged that discussions on reducing the pace of asset purchases will likely begin next month—a change from the central bank's prior stance that it was too early even to talk about talking about tapering. Combined with the Fed's earlier guidance that it would provide months of advance notice before implementation, we see tapering kicking off before year's end, potentially in early fall. We continue to see tapering as a year-long process, and believe a potential rate hike is unlikely for at least 18 months—and probably longer.

Market conditions—as well as inflation levels—likely contributed to the Fed's decision to start moving toward tapering. The absolute level of yields was near a multimonth low heading into the week, reducing the impact of any shift higher in yields on the prospects for tapering. In addition, the potential for unforeseen liquidity consequences from tapering is limited, as investors in recent months have returned more cash to the Fed than the Fed has pumped into the system. Since March, the Fed has purchased approximately \$360 billion of Treasury and Agency securities, while investors deposited over \$490 billion into the Fed's reverse-repurchase facility. Overall, it was an opportune moment to launch the taper process.

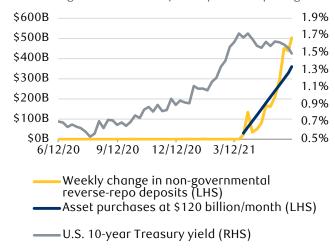
Inflation is transitory, except when it's not

Beyond taper talk, one of the most notable shifts in Fed language concerned inflation. The Fed still maintains—correctly, in our view—that current inflation is likely to prove transitory; however, the central bank now acknowledges the possibility that inflation may be higher and more persistent than it expects. In addition to the qualitative shift, the FOMC's median projection for 2021 PCE inflation jumped a full percentage point between March and June, rising to 3.4 percent from 2.4 percent.

One interpretation of the Fed's more hawkish tone, consistent with its comments and projections on inflation, is that the central bank now views the likely 2021 inflation overshoot as sufficient to meet the requirements of its recently adopted average inflation policy. The details of that policy have always been vague, and the Fed may be looking to take advantage of that purposeful ambiguity.

An opportune moment to talk taper

Cash coming back to Fed, and yield dip, make taper digestible



Source - RBC Wealth Management, Bloomberg; data through 6/9/21

Implications for investors

While it's easy to get caught up in the minutiae of Fed policy thinking, in practical terms not much has changed: the economy is still millions of jobs short of pre-pandemic employment levels; the ability of the Fed to sustainably generate sufficient inflation to overcome structural disinflation is questionable; and, even under optimistic assumptions, it will likely be years before policy rates move higher.

But we do see two key themes emerging from this month's meeting. First, stay invested. Not even the Fed can time the market; between March and June, its view of future rates shifted 60 basis points (bps) higher while the yield on the 10-year Treasury dropped 15 bps. We see little reason to think investors are likely to do better, and sitting on cash earning zero percent while waiting for the perfect bond entry point is unlikely to be a profitable strategy.

Second, long-term investors should trust in diversification and asset allocation. Whether inflation is transitory, and how the Fed will respond if it is not, are important questions, but the range of possible outcomes is wide. We believe investors should seek an investment strategy adaptable to a broad range of scenarios; a diversified portfolio, rebalanced appropriately, is among the soundest methods of dealing with uncertainty.

While the pandemic has created unique challenges for policymakers and investors alike, it has also reinforced basic investment principles—including the importance of sound asset allocation, consistent with risk tolerances. In our view, investors would be well-served to focus on core principles and avoid hasty responses to minor changes in the timing of potential Fed policy adjustments.

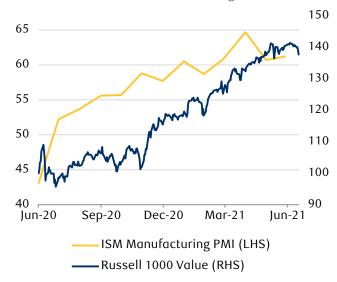
UNITED STATES

Ben Graham, CFA – Minneapolis

- The Federal Reserve meeting and subsequent press conference appear to be on track to halt the recent weekly winning streak for U.S. equities at three weeks as domestic stocks moved lower after the Fed changed its guidance for its bond-buying program and increased its inflation forecast, signaling a somewhat less accommodative monetary policy going forward. Thus far this week, U.S. stocks are slightly lower with small caps lagging large caps and value lagging growth. The S&P 500 has fallen 0.6% while the "growthier" Nasdaq has risen 0.7% and the value-oriented Dow Jones has moved 1.9% lower. The Russell 2000 is down 2.1% while growth outperformed value by more than 3.5 percentage points so far this week.
- Recent sector trends are also notable. So far this week, leadership is evident in Tech, Communication Services, and Health Care as these are the only sectors in the green. The economically-sensitive (cyclical) Materials sector has declined more than 4.0% while others in this category such as Industrials and Financials have declined more than 2.5% as value stocks trailed the broader market. RBC Capital Markets, LLC's Head of U.S. Equity Strategy Lori Calvasina believes some of this performance divergence is related to the recent peak in ISM data. She points out that when the ISM Manufacturing Purchasing Managers' Index falls—albeit this time from nearly a 30-year high cyclical sectors usually lag. In contrast, classic defensive sectors such as Health Care, Utilities, and Consumer Staples tend to outperform when the ISM Manufacturing PMI is falling. As far as portfolio positioning goes for long-term investors, she maintains her overweight to cyclicals as they historically outperform in an aboveaverage GDP growth environment. She wrote, "We are reluctant to abandon our Cyclical sector overweights without further evidence that what appears to be a quite strong underlying economic growth backdrop is truly at risk." But Calvasina acknowledges classic defensive sectors have scope to perform well in the near term due to some institutional investors' concerns about peaking economic indicators and relatively attractive valuations.
- Recent economic reports were mixed but generally support the economic recovery narrative. Inflation data, as measured by Purchasing Prices Index (PPI) inputs, was higher than consensus expectations. May retail sales missed the lofty consensus forecasts, but April's sales were revised upward, highlighting the stickiness of March's stimulus-fueled acceleration. Housing starts increased 3.6% m/m in May, slightly behind the consensus forecast. Labor and building materials shortages likely played a role. Initial jobless claims of 412,000 surprised to the upside and were higher than the prior week for the first time in nearly two months.

Value stocks rise and then pause with U.S. manufacturing activity

Russell 1000 Value and ISM Manufacturing PMI, since 6/1/20



Source - RBC Wealth Management, FactSet; data as of 11:15 am ET 6/17/21

CANADA

Richard Tan, CFA & Arete Zafiriou - Toronto

- Resale activity in the Canadian housing market recorded its second straight monthly decline in May, supporting RBC Economics' view that March resale levels were likely the cyclical peak. However, RBC Economics also notes that home prices have yet to peak, driven by strong competition among a smaller pool of buyers. Major markets such as Ottawa, Montreal, and Toronto experienced strong gains on a year-over-year basis, but this trailed smaller markets outside the Greater Toronto Area, which gained more than 40% y/y as households transitioned away from the city in favour of larger spaces. Overall, RBC Economics believes inventory levels will remain tight and expects further escalation in prices on the back of low interest rates, evolving household needs, and high household savings. As of the end of May, the average Canadian home appreciated by approximately 24% y/y, which compares to the S&P/TSX Composite at roughly 34%.
- expanded 3.6% y/y in May, the highest annual inflation rate since May 2011. Prices rose in every major category. Energy prices contributed almost half of the increase, up 26.4% from low base levels a year ago. Food prices grew 1.5% from higher base levels last May, and RBC Economics expects growth to continue amid high agricultural commodity prices. Excluding volatile energy and food prices, the CPI increased 2.4% y/y last month, up from 1.8% in April. Homeowners' replacement costs increased 11.3% y/y, continuing the 16-month trend of positive growth as home prices jumped due to higher consumer demand and construction costs. Passenger vehicle prices also ticked higher, up 5.0% y/y in May due in part to the global

semiconductor chips shortage. As the economy reopens in the coming quarters, RBC Economics expects consumer demand to rise and become a key driver of price growth in H2 2021.

EUROPE

Thomas McGarrity, CFA & Frédérique Carrier - London

- The STOXX Europe 600 Index notched its longest record-setting streak in more than 20 years with a ninth successive record high on Wednesday, June 16. In Q2 thus far, there has been a pause in the rotation towards value stocks and sectors, with "quality" stocks—particularly luxury goods in the Consumer Discretionary sector—leading the way, while the defensive Consumer Staples and Health Care sectors have also outperformed.
- Banks have been a notable exception to the underperformance of value stocks during the quarter, and continue to outperform. In light of the Fed's announcement, we think equity market leadership in the short term could shift back to what we saw in Q1, with value cyclicals such as banks and other shorter-duration stocks outperforming longer-duration growth and quality stocks.
- UK CPI inflation came in ahead of expectations at 2.1% y/y in May, versus consensus of 1.8%, driven by base effects from lapping a depressed comparative (i.e., May 2020 when the UK was in full lockdown), particularly fuel prices, in combination with the reopening of the economy as pandemic restrictions are eased. Given that a significant proportion of inflation can be attributed to the two aforementioned factors, we think the Bank of England's Monetary Policy Committee will likely continue to look past inflation above its 2% target level for the time being.
- Although the European Central Bank raised its forecasts for growth and inflation for this year and the next at its meeting last week, we think it is also unlikely to join the tapering movement soon because it has renewed its commitment to conduct net purchases under its Pandemic Emergency Purchase Programme at a significantly higher pace. This monetary policy differential could weigh on the euro, which weakened by nearly 1.5% compared to the U.S. dollar after the Fed meeting.

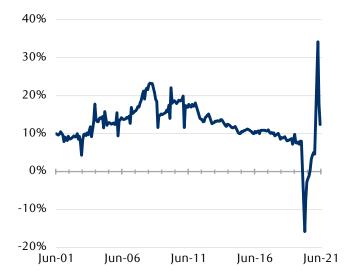
ASIA PACIFIC

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

- The Asia-Pacific equity market traded flat during the week, continuing the trend since the beginning of the month.
- The latest economic data from China suggests the recovery is stabilizing even though the numbers were slightly below estimates: industrial output +8.8% y/y in May (Bloomberg survey +9.2%), retail sales +12.4% (Bloomberg

China economic activity normalizing

China's monthly retail sales growth (y/y)



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

survey +14.0%), and fixed-asset investment +15.4% year to date. The strong economic rebound since the outbreak of COVID-19 has been driven by heavy industry, the property market, and an export boom, with consumer spending remaining the weak link. We believe the latter is the key to a more sustainable growth outlook. While spending is picking up gradually as vaccine rollouts accelerate in mainland China and the labor market improves, the recent holiday spending figures suggest consumers are still holding back on purchases. Meanwhile, near-term economic risk is skewed to the downside with the virus outbreak in the southern province of Guangdong. According to the Bloomberg survey, economists expect China's economy to gradually moderate this year from 8% y/y growth in Q2 to 6.2% in Q3 and 5% in Q4.

- We believe investors have anticipated the normalizing growth prospects, and we maintain our overweight stance on China equities with a preference for domestic companies and stocks with a value tilt. We expect leading domestic Consumer Staples players to emerge as the largest beneficiaries of the government's policy to boost domestic consumption, and value to continue to outperform growth on the back of a tightening credit environment.
- Economists have raised their forecasts for Singapore's 2021 GDP growth from 5.8% y/y to 6.5%, according to a survey by Singapore's central bank. Economists expect an expansion of 15% y/y in Q2, coming off the low base a year ago, when Singapore was in the midst of "circuit breaker" measures. A further deterioration of the COVID-19 pandemic remains the most-cited downside risk. While we are neutral on ASEAN (Southeast Asia) equities, we have a preference for Singapore as a reopening play.

MARKET Scorecard

Data as of June 17, 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 0.80 means 1 Canadian dollar will buy 0.80 U.S. dollar. CAD/USD 3.1% return means the Canadian dollar rose 3.1% vs. the U.S. dollar year to date. USD/JPY 110.25 means 1 U.S. dollar will buy 110.25 yen. USD/JPY 6.8% return means the U.S. dollar rose 6.8% vs. the yen year to date.

Source - Bloomberg; data as of 4:35 pm ET 6/17/21

Equities (local currency)	Level	MTD	YTD	1 уг	2 yr
S&P 500	4,221.86	0.4%	12.4%	35.6%	46.1%
Dow Industrials (DJIA)	33,823.45	-2.0%	10.5%	29.5%	29.5%
Nasdaq	14,161.35	3.0%	9.9%	42.9%	80.5%
Russell 2000	2,287.46	0.8%	15.8%	60.4%	49.2%
S&P/TSX Comp	20,144.04	2.1%	15.5%	30.6%	23.2%
FTSE All-Share	4,071.33	1.4%	10.8%	17.5%	1.4%
STOXX Europe 600	459.33	2.8%	15.1%	25.5%	21.4%
EURO STOXX 50	4,158.14	2.9%	17.0%	27.3%	22.9%
Hang Seng	28,558.59	-2.0%	4.9%	16.7%	4.9%
Shanghai Comp	3,525.60	-2.5%	1.5%	20.1%	22.1%
Nikkei 225	29,018.33	0.5%	5.7%	29.2%	37.4%
India Sensex	52,323.33	0.7%	9.6%	56.2%	34.3%
Singapore Straits Times	3,138.31	-0.8%	10.4%	17.6%	-2.2%
Brazil Ibovespa	128,057.20	1.5%	7.6%	34.0%	31.2%
Mexican Bolsa IPC	50,202.80	-1.3%	13.9%	32.5%	16.8%
Gov't bonds (bps change)	Yield	MTD	YTD	1 уг	2 yr
U.S. 10-Yr Treasury	1.507%	-8.7	59.4	76.9	-58.7
Canada 10-Yr	1.394%	-9.2	71.7	85.8	-5.9
UK 10-Yr	0.776%	-1.9	57.9	58.6	-7.4
Germany 10-Yr	-0.195%	-0.8	37.4	19.7	4.9
Fixed income (returns)	Yield	MTD	YTD	1 yr	2 уг
U.S. Aggregate	1.55%	0.1%	-2.2%	-0.6%	17.3%
U.S. Investment-Grade Corp	2.11%	0.6%	-2.3%	2.5%	24.1%
U.S. High-Yield Corp	3.89%	0.8%	3.1%	12.6%	21.0%
Commodities (USD)	Price	MTD	YTD	1 yr	2 yr
Gold (spot \$/oz)	1,772.35	-7.1%	-6.6%	2.6%	32.3%
Silver (spot \$/oz)	25.88	-7.7%	-2.0%	47.9%	74.4%
Copper (\$/metric ton)	9,638.25	-6.0%	24.4%	67.9%	65.7%
Oil (WTI spot/bbl)	71.04	7.1%	46.4%	87.1%	36.8%
Oil (Brent spot/bbl)	73.06	5.4%	41.0%	79.5%	19.9%
Natural Gas (\$/mmBtu)	3.25	8.7%	27.8%	98.2%	36.0%
Currencies	Rate	MTD	YTD	1 уг	2 yr
U.S. Dollar Index	91.9410	2.4%	2.2%	-5.4%	-5.8%
CAD/USD	0.8094	-2.4%	3.1%	9.8%	8.6%
USD/CAD	1.2355	2.4%	-2.9%	-8.9%	-7.9%
EUR/USD	1.1909	-2.6%	-2.5%	5.9%	6.2%
GBP/USD	1.3928	-2.0%	1.9%	10.9%	11.1%
AUD/USD	0.7552	-2.4%	-1.8%	9.7%	10.2%
USD/JPY	110.2500	0.6%	6.8%	3.0%	1.6%
EUR/JPY	131.3000	-2.0%	4.1%	9.1%	7.8%
			-4.3%	-4.5%	-4.5%
EUR/GBP	0.8551	-0.6%	-4.5 /0	-4.5 %	1.5 /0
EUR/GBP EUR/CHF	0.8551 1.0927	-0.6% -0.6%	1.1%	2.4%	-2.5%
EUR/CHF	1.0927	-0.6%	1.1%	2.4%	-2.5%
EUR/CHF USD/SGD	1.0927 1.3427	-0.6% 1.6%	1.1% 1.6%	2.4%	-2.5% -2.1%

Authors

Atul Bhatia, CFA – Minneapolis, United States

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

Ben Graham, CFA – Minneapolis, United States

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

Arete Zafiriou - Toronto, Canada

arete.zafiriou@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

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.

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 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 (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 advisor, 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

