



Perspectives from the Global Portfolio Advisory Committee

March 25, 2021

Is 2021 the year of value stocks?

Kelly Bogdanova – San Francisco

After years in the shadow of the growth segment, value stocks have taken over leadership of the U.S. equity market. But does value have staying power? We explain five factors that should support value's continued outperformance in 2021.

The U.S. equity market is still in rally mode one year after the swift COVID-19 plunge. The S&P 500 has surged 75 percent since its March 2020 low, and has climbed 15.5 percent above the peak it reached right before the pandemic began.

As stimulus has flooded the system and pandemic risks have slowly receded, leadership within the market has shifted meaningfully, impacting portfolio performance.

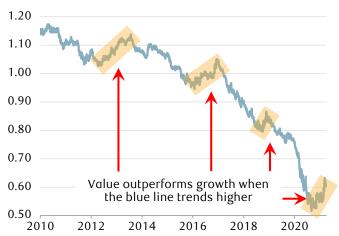
Initially during the pandemic, growth stocks dominated by a wide margin—particularly those of the largest technology-oriented firms. This segment also led during the past decade as powerful long-term secular trends took root in the digital and social media spheres. But as the growth rally progressed in 2020, valuations in the segment became increasingly expensive.

Last November, value stocks took the baton as economic recovery prospects brightened, the corporate profit outlook improved, and Treasury yields rose. With value maintaining its lead, a key consideration for portfolio positioning is: Does the move have legs?

Value's staying power has been questioned for years. The category—comprised largely of Financials and Industrials, and with a greater proportion of Telecom, Energy, Materials, and Utilities than the growth category—has

Prior periods of value outperformance were fleeting

Performance of U.S. Russell 1000 Value Index vs. Growth Index



Note: Chart shows ratio of large-cap value divided by growth Source - RBC Wealth Management, Bloomberg; data through 3/24/21

experienced only fleeting moments of glory in the past decade, as the chart illustrates. Since the beginning of 2010, the U.S. Russell 1000 Growth Index has rallied 378 percent, while its companion Value Index has risen only 161 percent.

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.

However, there have been prior periods in history when value meaningfully outperformed growth. At this stage, we think the long-held skepticism about the value segment's potential is less warranted.

Reasons to believe in value

From our vantage point, there are five main reasons that value stocks are likely to have staying power for the rest of this year, at least.

The economic cycle favors value. The early stages of an economic recovery, when GDP growth accelerates and then becomes entrenched, are usually marked by rising Treasury yields, increasing inflation expectations, rising commodity prices, and the steepening of the yield curve (when longer-term Treasury yields rise more than short-term yields). We think these macro dynamics favor value because the segment has a meaningful share of cyclical stocks in the Financials, Industrials, Materials, and Energy sectors, which are quite sensitive to changing economic trends and should benefit as the economy reopens.

Earnings momentum could surprise. Earnings growth for the value segment is expected to exceed that of the growth segment by a wide margin in 2021, according to consensus forecasts, due to the anticipated snap-back in the economy and the cyclical nature of key value categories. While this is well known among institutional investors, we think there is upside to earnings estimates. For starters, cyclical earnings estimates are notoriously too conservative coming out of recessions. Importantly, RBC Capital Markets' U.S. economics team believes growth during the reopening could well exceed consensus GDP forecasts. If the reopening is indeed strong, S&P 500 consensus earnings and revenue estimates could be "far too low," according to our national research correspondent. Its analysts think cyclical stocks, including those in the value category, stand to benefit.

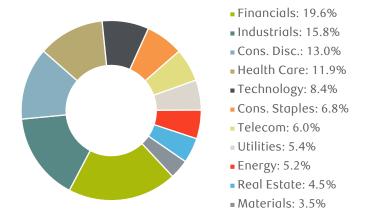
Value is still less expensive than normal relative to growth. Despite growth's underperformance since last November, the value segment still looks inexpensive versus growth in light of historical norms, according to RBC Capital Markets' price-to-earnings (P/E) analysis. This is corroborated by the firm's comprehensive valuation model, which incorporates 34 different metrics.

Dividends are more abundant—and in demand. The current dividend yield of the Russell 1000 Value Index is 2.0 percent, well above that of the Russell 1000 Growth Index at 0.8 percent. We think equity dividends will be in demand among individual investors amid the low bond yield environment, regardless of whether yields drift up further. Bond reinvestment rates aren't what they were five years ago, and anecdotal evidence indicates that investors are using dividend-paying stocks to help fill the income gap.

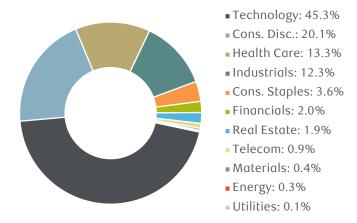
Momentum funds could add fuel. Even though value has outperformed recently, so-called "momentum funds" have yet to fully embrace the move. These funds tend to follow

Major sector differences between U.S. value and growth indexes

Russell 1000 Value Index sector breakdown



Russell 1000 Growth Index sector breakdown



Source - RBC Wealth Management, Bloomberg; data through 3/23/21

market trends, increasing positions in segments and stocks that are doing well in order to "ride the wave," so to speak. But they typically add exposure with a lag—meaning after trends have started to take hold. We think momentum funds will increase their exposure to value in the months ahead.

Don't undervalue value stocks

Beyond this year, RBC Capital Markets' equity strategy team believes value stocks' longer-term staying power will depend on the magnitude of economic growth—the longer GDP growth can stay above trend, the better value's potential to put together a longer winning streak. Fiscal stimulus and ultra-loose monetary policies are tailwinds and should lift GDP at healthy rates this year and next, but it is unclear how these dynamics will play out in 2023 and beyond.

While well balanced portfolios should include both value and growth exposure, we would continue to Overweight value for the time being, and would pay particular attention to cyclical sectors such as Financials, Materials, Industrials, and Energy that should benefit as the economy opens up further. We believe value stocks have the ability to outperform growth stocks this year, at least.

UNITED STATES

Atul Bhatia, CFA – Minneapolis

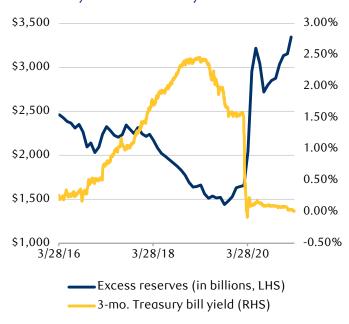
- The Federal Reserve will require banks to fully implement the supplementary leverage ratio (SLR) beginning Apr. 1, 2021. Banks have been operating in the pandemic under a Fed waiver allowing them to exclude Treasuries and excess reserves from their asset base when calculating SLR capital levels. The Fed's decision last week not to extend the exemption will potentially reduce bank demand for Treasuries and increase downward pressure on deposit rates, as institutions face a higher cost of capital for these assets. The move by the Fed is a technical one, but it reflects the varied tools the central bank has to influence financial conditions, beyond merely moving interest rate targets.
- Returns on cash held in short-term instruments were under pressure before the Fed move, with the yield on 1- and 3-month Treasury bills turning negative this week. The supply of T-bills has dropped by more than \$200 billion so far this year, as the Treasury Department reduces its cash balances and comes into compliance with debt ceiling limits. Negative T-bill yields are not a new phenomenon—rates were negative as recently as March 2020—and we expect the supply situation to be resolved in the coming months. Returns on cash are unlikely to push significantly higher, however, until excess banking reserves decline to more normal, pre-pandemic levels.
- Supply chain disruptions continue, as a grounded container ship temporarily closed traffic at the Suez Canal this week. The Suez difficulties are felt primarily in the energy sector, as the canal remains a key transit point for oil and petroleum products. Separately, semiconductor shortages have caused automakers to cut production runs, with the estimated impact reaching as high as 1.5 million units globally for 2021, according to a Bloomberg report. These supply chain issues—which may increase as the economic reopening accelerates—complicate the interpretation of inflation data, as shortages can push prices higher. This supply-driven inflation is typically short-lived and has historically been given little weight by monetary policy officials.

CANADA

Carolyn Schroeder & Arete Zafiriou – Toronto

■ Canada's national wealth rose to a record CA\$12.42 trillion in Q4 2020. Statistics Canada reported household wealth was up 3.7% over the quarter and 9.3% over the course of the year, bolstered by government support and higher asset prices. While wages and salaries dropped CA\$36 billion between Q4 2019 and Q4 2020, the fall was more than offset by the CA\$117 billion increase in

Short-term yields held down by cash balances



Source - RBC Wealth Management, Bloomberg; data through 3/24/21

government transfers. Financial asset holdings increased CA\$291 billion y/y amid the rebound in equity markets. Residential real estate rose 3.4% over the quarter, surpassing CA\$6 trillion for the first time. Even accounting for the CA\$110 billion increase in mortgage debt over the past year, net household equity in real estate added CA\$531 billion to household wealth in 2020. The household savings rate remained in double-digit territory for the third consecutive quarter. As a result, currency and deposit holdings expanded over CA\$48 billion in the last quarter, to end the year CA\$205 billion higher.

■ It's been a year since the World Health Organization declared a global pandemic and much has changed since then, including the way Canadians shop. According to RBC Economics, three key trends have emerged. First, without virus containment measures, consumers will **spend**. Consumer spending on merchandise bounced back after winter lockdowns as retail store-fronts reopened and the latest downturn was less severe with households and businesses having adapted to contactless purchase options. Second, nesting matters in an increasingly physically distant world. Canadian household spending accounted for 17% of total spending before COVID-19 and one year later it is 21%. As the service sector reopens, some of that cash will likely be re-directed to spending outside of the home. Finally, retail digitalization is here to stay. The pandemic has kept many businesses operating under restrictions and stores have responded by increasing e-commerce infrastructure and sales, helping to accelerate a trend that was already in place before the pandemic.

EUROPE

Thomas McGarrity, CFA & Frédérique Carrier – London

- News was mixed out of Europe. The IHS Markit
 Eurozone Composite Purchasing Managers' Index (PMI)
 for March climbed into expansionary territory at 52.5.
 This was driven by a surge in the Manufacturing PMI to
 a record high of 62.4. The services component improved,
 though it remained in contractionary territory. All readings
 were comfortably above consensus expectations. The
 surprisingly strong showing corroborates our observation
 that the economy is weathering the COVID-19 crisis
 better than feared, as individuals and businesses adapt
 to new conditions.
- Yet with many countries in the region extending lockdowns and social distancing measures in an attempt to fight the new COVID-19 variants, we believe **further improvement is likely to be postponed**, with the services sector likely to suffer most.
- In the UK, the March PMIs also surpassed consensus expectations as businesses start to set up for reopening later in the spring. The Composite PMI jumped seven points to 56.6 with services registering the biggest improvement. Manufacturing also saw an upturn, but to a lesser extent—possibly due to global shipping and supply chain issues and to the difficulty of adapting to the new trade regime now that seamless exports to the EU are no longer possible.
- Intel's announcement that it will spend \$20 billion to build two new semiconductor factories boosted the European semiconductor equipment manufacturers, including ASML and ASM International, whose shares rose 6% and 4%, respectively, during the week. These gains helped the Technology sector outperform during the week.
- At the industry level, the semiconductor group has been one of the strongest performers in Europe year-to-date, up almost 20% in euro terms. We believe the long-term growth prospects for the semiconductor industry remain bright as megatrends such as 5G, artificial intelligence, electric vehicles, and high-performance computing fuel ever-increasing demand for smaller, faster, and more powerful chips. Accordingly, chips are becoming even more essential to the global economy.

ASIA PACIFIC

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

■ Asia Pacific equity markets traded mostly lower during the week, led by Japan and Hong Kong. The Nikkei 225 (NKY) has underperformed the region and its TOPIX (TPX) counterpart after the Bank of Japan (BoJ) announced it will only buy exchange-traded funds (ETFs) that track the broader TPX gauge. While the BoJ has been purchasing a smaller share of NKY ETFs since 2018, the latest development came as a surprise. Analysts now

Shift by Bank of Japan may lead TOPIX to outperform

Index levels normalized to 100 as of Mar. 25, 2011



Source - RBC Wealth Management, Bloomberg; data through 3/25/21

expect the historical relative outperformance (10-year total returns as of Mar. 24, 2021: NKY +264.9%, TPX +181.3%) to gradually narrow.

- The au Jibun Bank Flash Japan Manufacturing Purchasing Managers' Index (PMI) rose to a seasonally adjusted 52.0 in March from 51.4 in February as the pace of expansion of Japan's factory activity increased. Meanwhile, the services sector remained gloomier with the PMI mostly unchanged month over month at 46.5. While we still expect some softening in real GDP growth in Q1 2021, due to the COVID-19 state of emergency, we think there will be a strong bounce from Q2 onward on the back of the global economic recovery.
- In another sign of a growing regulatory oversight on the China tech companies, the People's Bank of China will be looking to establish a joint venture (JV) with local tech giants to oversee the data they collect from millions of Chinese consumers, according to Bloomberg. A part of the proposal is the JV eventually forming strategic alliances with government-backed institutions to facilitate data sharing. For now, it remains unclear what the scope of the new entity would be, what types of data it would manage, and from what sources.
- Tencent Holdings (700 HK) reported better-thanexpected FYQ4 2020 earnings. The strong results were overshadowed by concerns about Beijing cracking down on large tech companies. We believe an unsubstantiated report by Reuters of a recent meeting between Tencent's founder and the regulators further concerned investors. While management tried to downplay the impact of a potential revamp of Tencent's US\$120 billion Fintech business during the earnings call, the stock continues to trend lower to trade near a two-month low.

MARKET Scorecard

Data as of March 25, 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 0.79 means 1 Canadian dollar will buy 0.79 U.S. dollar. CAD/USD 0.9% return means the Canadian dollar rose 0.9% vs. the U.S. dollar year to date. USD/JPY 109.19 means 1 U.S. dollar will buy 109.19 yen. USD/JPY 5.8% return means the U.S. dollar rose 5.8% vs. the yen year to date.

Source - Bloomberg; data as of 4:35 pm ET 3/25/21.

Equities (local currency)	Level	MTD	YTD	1 уг	2 уг
S&P 500	3,909.52	2.6%	4.1%	57.9%	39.7%
Dow Industrials (DJIA)	32,619.48	5.5%	6.6%	53.9%	27.8%
Nasdaq	12,977.68	-1.6%	0.7%	75.7%	69.9%
Russell 2000	2,183.12	-0.8%	10.5%	96.6%	44.3%
S&P/TSX Comp	18,651.10	3.3%	7.0%	41.9%	16.1%
FTSE All-Share	3,804.75	2.8%	3.6%	22.6%	-3.0%
STOXX Europe 600	423.08	4.5%	6.0%	35.0%	13.0%
EURO STOXX 50	3,832.57	5.4%	7.9%	36.9%	16.1%
Hang Seng	27,899.61	-3.7%	2.5%	18.6%	-2.2%
Shanghai Comp	3,363.59	-4.1%	-3.2%	20.9%	10.5%
Nikkei 225	28,729.88	-0.8%	4.7%	47.0%	37.0%
India Sensex	48,440.12	-1.3%	1.4%	69.8%	28.1%
Singapore Straits Times	3,141.71	6.5%	10.5%	25.4%	-1.3%
Brazil Ibovespa	113,749.90	3.4%	-4.4%	51.8%	21.4%
Mexican Bolsa IPC	47,012.37	5.4%	6.7%	32.3%	10.1%
Gov't bonds (bps change)	Yield	MTD	YTD	1 уг	2 уг
U.S. 10-Yr Treasury	1.631%	22.7	71.8	76.4	-76.7
Canada 10-Yr	1.464%	10.9	78.7	56.2	-8.5
UK 10-Yr	0.729%	-9.1	53.2	28.4	-25.7
Germany 10-Yr	-0.384%	-12.4	18.5	-12.2	-35.6
Fixed income (returns)	Yield	MTD	YTD	1 yr	2 yr
U.S. Aggregate	1.55%	-0.9%	-3.0%	2.5%	16.3%
U.S. Investment-Grade Corp	2.25%	-1.6%	-4.5%	13.3%	21.3%
U.S. High-Yield Corp	4.34%	-0.2%	0.5%	30.7%	18.0%
Commodities (USD)	Price	MTD	YTD	1 yr	2 yr
Gold (spot \$/oz)	1,727.50	-0.4%	-9.0%	6.8%	30.7%
Silver (spot \$/oz)	25.08	-5.9%	-5.0%	73.3%	61.4%
Copper (\$/metric ton)	8,973.25	-1.8%	15.8%	85.2%	41.6%
Oil (WTI spot/bbl)	58.49	-4.9%	20.5%	208.0%	-0.5%
Oil (Brent spot/bbl)	61.82	-6.5%	19.3%	125.7%	-8.0%
Natural Gas (\$/mmBtu)	2.57	-7.3%	1.2%	54.9%	-6.7%
Currencies	Rate	MTD	YTD	1 yr	2 yr
U.S. Dollar Index	92.8850	2.2%	3.3%	-8.1%	-3.8%
CAD/USD USD/CAD	0.7927 1.2615	1.0%	0.9%	12.5%	6.2% -5.9%
EUR/USD		-1.0%		8.1%	-3.9% 4.0%
GBP/USD	1.1763 1.3735	-2.6%	-3.7% 0.5%	15.6%	4.0%
AUD/USD	0.7581	-1.4%	-1.5%	27.2%	6.6%
USD/JPY	109.1900	2.5%	5.8%	-1.8%	-0.7%
EUR/JPY	128.4300	-0.2%	1.8%	6.1%	3.2%
EUR/GBP	0.8564	-1.2%	-4.2%	-6.5%	-0.1%
EUR/CHF	1.1058	0.8%	2.3%	4.0%	-1.5%
USD/SGD	1.3491	1.2%	2.0%	-6.8%	-0.1%
USD/CNY	6.5463	1.0%	0.3%	-5.7%	-2.4%
•					
USD/MXN	20.6674	-0.9%	3.8%	-13.6%	8.7%
USD/MXN USD/BRL	20.6674 5.6452	-0.9% 0.7%	3.8% 8.6%	-13.6% 49.4%	8.7% 46.5%

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

Carolyn Schroeder - Toronto, Canada

carolyn.schroeder@rbc.com; RBC Dominion Securities Inc.

Arete Zafiriou - Toronto, Canada

arete.zafiriou@rbc.com; RBC Dominion Securities Inc.

Thomas McGarrity, CFA – London, United Kingdom

thomas.mcgarrity@rbc.com; RBC Europe Limited

Frédérique Carrier – London, United Kingdom

frederique.carrier@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: Carolyn Schroeder and Arete Zafiriou, employees of RBC Wealth Management USA's foreign affiliate RBC Dominion Securities Inc.; Thomas McGarrity and Frédérique Carrier, 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/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 December 31, 2020

			Investment Banking Services Provided During Past 12 Months	
Rating	Count	Percent	Count	Percent
Buy [Outperform]	828	54.83	299	36.11
Hold [Sector Perform]	615	40.73	166	26.99
Sell [Underperform]	67	4.44	12	17.91

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. 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

