

Global Insight

Weekly



A closer look

Bull market obstacle course

Kelly Bogdanova – San Francisco

While most have focused on the gauntlet of macro risks facing the bull market, there's an overarching—and overlooked—reason why the market has been wobbly, the midterm elections. But this is normal behavior for midterm election years and the market should maneuver past any potential pitfalls.

For months bulls and bears have faced off on a number of macro issues from the spike in Treasury yields, to inflation jitters, to protectionism and tariff risks, to geopolitical hazards, to Washington drama, and more (see table).

A handful of these issues sparked a 10% correction in the S&P 500 and pressured markets outside of the U.S. from late January through early February. While equities have bounced back somewhat since then, they are still wobbly and reactive to the macro risks du jour that tend to drift on and off the radar screen and then back on again.

But it's not only these legitimate macro risks that have been constraining equities in 2018. Importantly, we think an overarching—and overlooked—factor is also pressuring stock prices: the U.S. midterm elections looming in November.

The historical performance surrounding midterm House and Senate elections is among the strongest of the seasonal equity market cycles we track. The U.S. market typically corrects ahead of time and improves meaningfully after the midterm election year low has been established. Investors should keep this in mind as the market zigs and zags this year.

Pullback pattern

Corrections, pullbacks, and volatile market moves are par for the course in the 12-month period leading up to a U.S. midterm election.

The S&P 500 pulled back 5% or more ahead of 19 of 21 midterm elections since 1934. It declined 10% or more on 14 of those occasions, or 67% of the time. The S&P 500 corrected by an average of 20.6% over the 21 instances. (Performance



Bulls and bears have been facing off on ...

- Spike in Treasury yields
- Yield curve flattening
- Fed policy uncertainty
- Inflation jitters
- Geopolitical events
- Washington drama
- Protectionism, tariffs
- Economic growth
- Tech concerns
- "Peak earnings growth"

But is there an overarching issue at play?

Source - RBC Wealth Management

Market pulse

- 3 Flattening yield curve a headwind to future U.S. rate hikes
- 3 Themes for Canada's Auto, Industrials, & Transport sectors
- 4 Europe's less encouraging picture
- 4 Thoughts on the U.S.-China trade standoff

Click [here](#) for authors' contact information.

Priced (in USD) as of 5/24/18 market close, EST (unless otherwise stated).

For important disclosures and required non-U.S. analyst disclosures, see [page 6](#).



Wealth
Management

is measured from the peak within 12 months prior to the midterm election year low, to that low.)

So it should be no surprise that the S&P 500 has already succumbed to a pullback in this midterm election year, falling 10% from the all-time high in late January through early February. The S&P 500 remains 5.1% below the January high.

Given the historical pattern, it seems at least part of the midterm election year correction has already been absorbed by the market, but we don't rule out additional turbulence in coming months.

Opening for opportunity

Importantly, the midterm election year low has historically been an inflection point for the U.S. market.

Turnabouts didn't always happen immediately after the election; sometimes more volatility occurred and the market rebounded weeks or months later. But once the market got going again, it really jumped.

The S&P 500 rallied 47.3%, on average, as measured from the low point reached during the midterm election year to the high in the following year. In 19 of 21 instances, the market surged 25% or more. It traded higher on all 21 occasions since 1934.

It seems history would argue to buy into any midterm election year turbulence.

Market maneuverability

In our assessment, there are no clear-cut reasons why the U.S. market tends to struggle at some point during the 12-month period that precedes a midterm election, and then rally smartly after the low has been reached.

Analysts often cite the uncertainty about party control of Congress as a factor, as that can impact the country's fiscal direction and the president's agenda. Markets don't like uncertainty, and a shift in control of the House away from the president's party is possible this year.

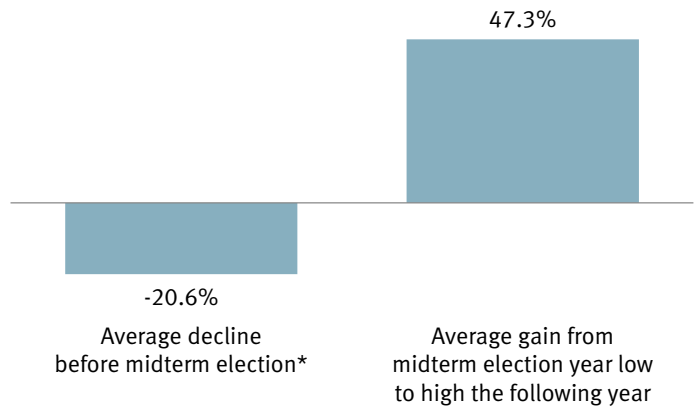
But even during the decades-long streak that the Democratic Party had a lock on the House, the midterm seasonal market pattern played out regardless of which party controlled the Senate or occupied the White House.

Perhaps the fear of the unknown is what grips the market, and then once the political landscape shakes out, those fears subside and market conditions improve. After all, earnings growth mainly drives stock prices over the long term, not shifts in party control in Washington.

Regardless of how the political landscape shakes out this go around, once the market works past the midterm election period we think it will be more evident that the long-term secular bull market still has legs.

Corrections are common in midterm years, and so are follow-on rallies

S&P 500 returns surrounding midterm elections (1934–2014)



* Measured from the peak within 12 months before the midterm election year low, to that low

Source - RBC Wealth Management, Bloomberg; performance before and after 21 midterm election years

The historical pattern argues for buying the midterm dip

Notable S&P 500 factoids surrounding midterm election years

Correction periods ahead of midterm elections*

The average correction was 20.6% and the median correction was 19.9% over the 21 instances

Pullbacks of 5% or more occurred in 19 of the 21 instances

Corrections of 10% or more occurred in 14 of those occasions

Corrections of 20% or more occurred 10 times

Rally periods from midterm election year low to high the following year

The average rally was 47.3% and the median rally was 43.4% over the 21 instances

The S&P 500 traded higher on all 21 occasions

It rallied by 25% or more in 19 of the 21 instances

* Measured from the peak within 12 months before the midterm election year low, to that low

Source - RBC Wealth Management, Bloomberg; performance before and after 21 midterm election years (1934–2014)



United States

Ben Graham – Minneapolis

- The minutes from the Fed's May meeting confirmed the Fed's outlook on rate policy and the economy.** Policymakers clearly communicated a high degree of internal expectation that the next rate hike will occur at the June meeting with market expectations now at 100% for a 25 basis point hike in June. After peaking at 3.11% recently, the 10-year Treasury has since dipped below the 3% threshold. In terms of the flattening yield curve, the **difference (spread) between the 2-year and 10-year Treasury fell to post-Great Recession lows of 43 basis points.** Officials appear split on the meaning of this data point and we expect this discussion to be more prominent in the Fed's decision-making process in the back half of 2018 and into 2019. **Our U.S. Fixed Income Strategies Group continues to believe the flattening yield curve will be a headwind to rate hikes beyond the June meeting,** and believes that the market's view on future policy rates will prove more accurate than current Fed estimates.
- In equities, geopolitics and interest rates have shaped recent movements.** U.S. indexes rallied in the beginning of the week on easing trade tensions between the U.S. and China after both sides agreed to put escalations on hold, before weakening into the back half of the week on a deterioration, and ultimate cancellation, of the proposed summit between President Trump and North Korean leadership. Given this backdrop and the action of Treasury yields, **bond proxies have been market leaders.** Utilities leads all sectors so far during the week, with Telecom and Real Estate following closely. As retail earnings—the only broad group still reporting earnings—continue, results have been mixed and share price moves largely dependent on guidance as opposed to results.
- On the economic front, data releases saw U.S. flash Purchasing Managers' Indexes come in slightly above consensus expectations, while housing data missed estimates. **Existing-home sales declined 2.5% m/m** in April to 5.46 million and undershot the consensus estimate of 5.55 million. **However, the bottleneck remains on the supply side,** as the average number of days a home is on the market declined, implying resilient demand despite the highest mortgage rates of the last seven years.



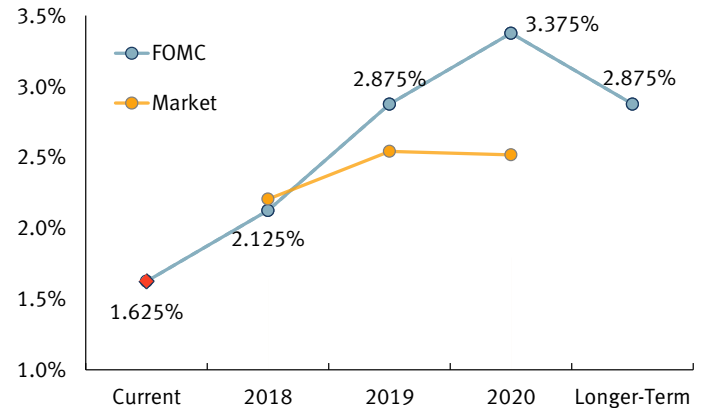
Canada

Farazeh Mahboob & Richard Tan – Toronto

- RBC Capital Markets held its annual Canadian Automotive, Industrials, and Transportation Conference earlier this month. **As the economic landscape continues to evolve**

Market expectations for future rate hikes are lower than the FOMC's projections beyond 2018

Rate hike expectations after June meeting



Source - RBC Wealth Management, Bloomberg, Federal Reserve; data through 5/23/18; Note: Market data based on overnight indexed swap rates

- within the automotive sector, firms are adapting** by increasing their investments into electrification and autonomous driving. RBC Capital Markets believes the **Canadian auto suppliers are undervalued** relative to global peers. On the other hand, the recent rebound in commodity prices combined with an increase in government spend has been **contributing positively to the growth profiles of engineering & construction firms** in RBC Capital Markets' coverage universe. Finally, despite the capacity issues among the transports, firms are **showcasing their ability to win over investors' confidence** as they are rectifying issues ahead of expectations.
- The Bank of Canada and the Office of the Superintendent of Financial Institutions have indicated that **domestic real loan growth has slowed modestly** (down 5.3% y/y) among the large Canadian banks as of February. RBC Capital Markets found that **sales activity picked up modestly in Toronto during April**, but housing activity and prices continue to be down year to date. Traditionally, sales have picked up in April and, as a result, RBC Capital Markets believes it would be wise to wait a few more months to digest the impact of the new mortgage rules on loan growth and the broader economy. RBC Capital Markets assumes that mortgage growth for larger banks will slow by 2% on an annualized basis.
- Following a review of Q1 earnings results, **RBC Capital Markets continues to favor the regional wireless operators** under its coverage universe and expects the group to outperform the broader Telecom sector this year. A **key theme** that emerged from this earnings cycle was a **deceleration in average revenue per user (ARPU) growth among the wireless incumbents**, consistent with company managements' view for ARPU growth to moderate into the +1%–2% range this year. Factors

contributing to this deceleration include the lapping of Premium Plus plans, larger data buckets, device proliferation, WiFi offload, bring your own device, and increased competition, offset by core price increases, growth in data consumption, and mix.



Europe

Frédérique Carrier & Thomas McGarrity, CFA – London

- **Investors were concerned about weaker-than-expected economic indicators and Italian politics.** The impact was most felt in the foreign exchange market, with the **euro continuing to slide, bringing losses since the February peak to 6.5% against the dollar.** The yield on Italian 10-year bonds touched 2.395%, up from a low of 1.712% in April, bringing the spread compared to the German Bund to more than 1.8% from 1.1% a month ago.
- **Italy confirmed a technocrat as head of state.** Italy's president asked the new prime minister, law professor Giuseppe Conte, to form a new government which he says will be based on the agreement recently struck by the populist parties Five Star Movement and the Northern League. **The coalition is anti-establishment and likely to challenge the constraints of the eurozone's rules.** Investors will need to closely follow the developments of this government of unlikely partners. We expect a higher fiscal deficit, and thus indebtedness for the country which is already highly indebted, as well as a rollback of recent labour market reforms.
- **The euro area composite Purchasing Managers' Index (PMI) weakened** to 54.1 in April, from 55.1 the previous month, with **both the manufacturing and the services PMIs waning.** While some weakness was expected, the **extent of the fall came as a surprise.** Activity slowed in both France and Germany. Strikes and holidays may have had an impact and next month's data will be important to gauge the effect of these one-off events.
- The PMIs continue to point to Q2 economic growth of 0.5%–0.6% for the eurozone, but this **loss of momentum combined with the clouds starting to build in Italy make for a less encouraging picture** for the region. We maintain our Overweight position on European equities, with a preference for core economies over the periphery.



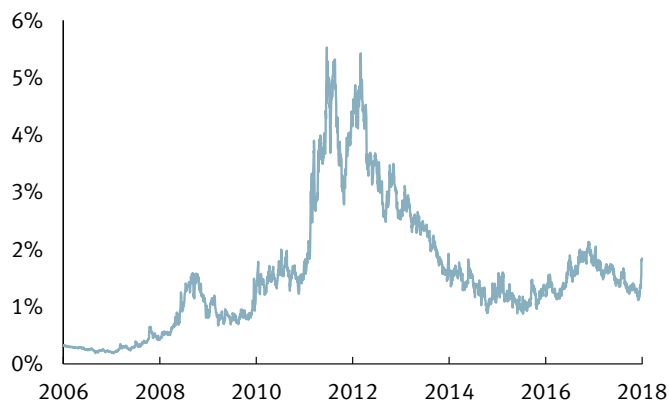
Asia Pacific

Jay Roberts, CFA – Hong Kong

- **Asian markets continue to tread water.** The uncertainty around the U.S.-China trade negotiations is weighing on

Weakening economic factors and politics drive Italian yields higher relative to peers

Italian 10-yr. government bond spread vs. 10-yr. Bund



Source - RBC Wealth Management, Bloomberg; data through 5/24/18

- stocks. Asian equities have also been consolidating after strong gains in 2017 and the correction in February.
- Asian markets were **initially buoyed by the agreement between the U.S. and China to suspend plans to impose tariffs** after talks in Washington. The joint statement said that the two countries would “substantially reduce” the U.S. trade deficit with China. **However, details were scant,** aside from mentioning an increase in U.S. exports of agricultural products and energy. More recently, President Trump tweeted that a detailed agreement “will be too hard to get done” and that a “different structure” would be needed, without elaborating on what that meant.
- With respect to the trade negotiations, a key issue is the **lack of clarity on what the U.S. is trying to achieve and how aggressive it wishes to be with China.** Those who are more critical of the trade situation with China, such as Peter Navarro, Robert Lighthizer, and John Bolton, would be more aggressive in their approach compared to more moderate figures such as Steve Mnuchin.
- Most importantly, it is not clear what Trump's views and goals are in this area. For example, he has often talked about the U.S. losing jobs to China, but recently offered **support for Chinese technology firm ZTE (763 HK) because ZTE has effectively shut down, impacting Chinese jobs.** ZTE, a large state-owned enterprise that employs around 80,000 people and is a major producer of smartphones and telecom equipment, was recently banned from buying U.S. products, necessary components in its own products, due to its business dealings with Iran and North Korea.



MARKET SCORECARD

Data as of May 24, 2018

Equities (local currency)	Level	MTD	YTD	1 yr	2 yr
S&P 500	2,727.76	3.0%	2.0%	13.4%	31.4%
Dow Industrials (DJIA)	24,811.76	2.7%	0.4%	18.1%	40.1%
NASDAQ	7,424.43	5.1%	7.5%	20.5%	52.7%
Russell 2000	1,628.22	5.6%	6.0%	17.8%	43.4%
S&P/TSX Comp	16,113.62	3.2%	-0.6%	4.5%	15.5%
FTSE All-Share	4,244.71	2.8%	0.5%	3.2%	24.0%
STOXX Europe 600	390.54	1.4%	0.3%	-0.5%	13.5%
EURO STOXX 50	3,521.76	-0.4%	0.5%	-1.8%	17.0%
Hang Seng	30,760.41	-0.2%	2.8%	21.0%	55.1%
Shanghai Comp	3,154.65	2.3%	-4.6%	3.0%	11.8%
Nikkei 225	22,437.01	-0.1%	-1.4%	13.6%	36.0%
India Sensex	34,663.11	-1.4%	1.8%	14.4%	37.0%
Singapore Straits Times	3,528.92	-2.4%	3.7%	9.2%	28.3%
Brazil Ibovespa	80,122.31	-7.0%	4.9%	26.7%	62.4%
Mexican Bolsa IPC	45,433.09	-6.0%	-7.9%	-8.2%	-0.1%
Commodities (USD)	Price	MTD	YTD	1 yr	2 yr
Gold (spot \$/oz)	1,305.10	-0.8%	0.2%	3.7%	6.3%
Silver (spot \$/oz)	16.67	2.1%	-1.6%	-3.3%	2.8%
Copper (\$/metric ton)	6,841.50	1.1%	-5.1%	20.8%	48.0%
Oil (WTI spot/bbl)	70.68	3.1%	17.0%	38.3%	46.7%
Oil (Brent spot/bbl)	78.80	4.8%	17.8%	46.0%	62.1%
Natural Gas (\$/mmBtu)	2.93	6.0%	-0.8%	-8.8%	47.9%

Govt bonds (bps chg)	Yield	MTD	YTD	1 yr	2 yr
U.S. 10-Yr Tsy	2.975%	2.2	57.0	72.5	111.2
Canada 10-Yr	2.410%	10.3	36.5	93.2	104.4
U.K. 10-Yr	1.401%	-1.7	21.1	32.9	-7.1
Germany 10-Yr	0.472%	-8.7	4.5	6.9	29.5
Fixed Income (returns)	Yield	MTD	YTD	1 yr	2 yr
U.S. Aggregate	3.34%	-0.2%	-2.4%	-0.9%	0.5%
U.S. Invest Grade Corp	3.99%	-0.4%	-3.6%	-0.3%	3.9%
U.S. High Yield Corp	6.38%	0.0%	-0.2%	2.6%	16.9%
Currencies	Rate	MTD	YTD	1 yr	2 yr
U.S. Dollar Index	93.7760	2.1%	1.8%	-3.6%	-1.9%
CAD/USD	0.7760	-0.3%	-2.5%	4.0%	1.8%
USD/CAD	1.2887	0.3%	2.5%	-3.9%	-1.8%
EUR/USD	1.1725	-2.9%	-2.3%	4.5%	5.2%
GBP/USD	1.3386	-2.7%	-0.9%	3.2%	-8.5%
AUD/USD	0.7579	0.7%	-2.9%	1.0%	5.5%
USD/JPY	109.2700	-0.1%	-3.0%	-2.0%	-0.7%
EUR/JPY	128.1200	-3.0%	-5.3%	2.4%	4.6%
EUR/GBP	0.8760	-0.2%	-1.4%	1.3%	15.1%
EUR/CHF	1.1621	-2.9%	-0.7%	6.4%	5.0%
USD/SGD	1.3393	1.0%	0.2%	-3.3%	-3.1%
USD/CNY	6.3784	0.7%	-2.0%	-7.4%	-2.7%
USD/MXN	19.5548	4.5%	-0.5%	6.0%	5.8%
USD/BRL	3.6451	4.0%	10.0%	11.2%	2.1%

Source - Bloomberg. Note: Equity returns do not include dividends, except for the German DAX and 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. Data as of 8:35 pm GMT 5/24/18.

Examples of how to interpret currency data: CAD/USD 0.78 means 1 Canadian dollar will buy 0.78 U.S. dollar. CAD/USD -2.5% return means the Canadian dollar fell 2.5% vs. the U.S. dollar year to date. USD/JPY 109.27 means 1 U.S. dollar will buy 109.27 yen. USD/JPY -3.0% return means the U.S. dollar fell 3.0% vs. the yen year to date.

Authors

Kelly Bogdanova – San Francisco, United States

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

Ben Graham – Minneapolis, United States

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

Farazeh Mahboob – Toronto, Canada

farazeh.mahboob@rbc.com; RBC Dominion Securities Inc.

Richard Tan – Toronto, Canada

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

Frédérique Carrier – London, United Kingdom

frederique.carrier@rbc.com; Royal Bank of Canada Investment Management (U.K.) Ltd.

Thomas McGarrity, CFA – London, United Kingdom

thomas.mcgarritty@rbc.com; Royal Bank of Canada Investment Management (U.K.) Ltd.

Jay Roberts, CFA – Hong Kong, China

jay.roberts@rbc.com; RBC Dominion Securities Inc.

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: Farazeh Mahboob, Richard Tan, and Jay Roberts, employees of RBC Wealth Management USA's foreign affiliate RBC Dominion Securities Inc.; and Frédérique Carrier and Thomas McGarrity, employees of RBC Wealth Management USA's foreign affiliate Royal Bank of Canada Investment Management (U.K.) Limited; 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.

References to a Recommended List in the recommendation history chart may include one or more recommended lists or model portfolios maintained by RBC Wealth Management or one of its affiliates. RBC Wealth Management recommended lists include the Guided Portfolio: Prime Income (RL 6), the Guided Portfolio: Dividend Growth (RL 8), the Guided Portfolio: ADR (RL 10), and the Guided Portfolio: All Cap Growth (RL 12), and former lists called the Guided Portfolio: Large Cap (RL 7), the Guided Portfolio: Midcap 111 (RL 9), and the Guided Portfolio: Global Equity (U.S.) (RL 11). RBC Capital Markets recommended lists include the Strategy Focus List and the Fundamental Equity Weightings (FEW) portfolios. The abbreviation 'RL On' means the date a security was placed on a Recommended List. The abbreviation 'RL Off' means the date a security was removed from a Recommended List.

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, LLC ratings of Top Pick (TP)/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.

Rating	Count	Percent	Investment Banking Services Provided During Past 12 Months	
			Count	Percent
Buy [Top Pick & Outperform]	865	53.49	275	31.79
Hold [Sector Perform]	667	41.25	147	22.04
Sell [Underperform]	85	5.26	7	8.24

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.

Ratings:

Top Pick (TP): Represents analyst's best idea in the sector; expected to provide significant absolute total return over 12 months with a favorable risk-reward ratio. **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 received 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 the member companies 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 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 Web site 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 II of the Firm's Form ADV or the Investment Advisor Group 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 II of the ADV, or 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; and by Royal Bank of Canada Investment Management (U.K.) Limited, an investment management company 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 or consequential loss arising from 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 consent of Royal Bank of Canada. 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 Royal Bank of Canada Investment Management (U.K.) Limited and RBC Investment Solutions (CI) Limited. Royal Bank of Canada Investment Management (U.K.) Limited is authorised and regulated by the Financial Conduct Authority (Reference number: 146504). Registered office: Riverbank House, 2 Swan Lane, London, EC4R 3BF, 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. Financial Services provided to Australia: Financial services may be provided in Australia in accordance with applicable law. Financial services provided by the Royal Bank of Canada, Hong Kong Branch are provided pursuant to the Royal Bank of Canada's Australian Financial Services Licence ('AFSL') (No. 246521).

To Singapore Residents: This publication is distributed in Singapore by the Royal Bank of Canada, Singapore Branch, a registered entity granted offshore bank licence 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.

© RBC Capital Markets, LLC 2018 - Member NYSE/FINRA/SIPC

© RBC Dominion Securities Inc. 2018 - Member Canadian Investor Protection Fund

© RBC Europe Limited 2018

© Royal Bank of Canada 2018

All rights reserved

RBC1253