#### RBC WEALTH MANAGEMENT

# Global Insight

# The resilient rudder

Kelly Bogdanova – San Francisco

The U.S. expansion continues to plow ahead, and investors are finding solace in its resiliency as growth elsewhere underwhelms. While one downside to this positive sentiment has caught our eye, we look at why the U.S. economy should continue to be a guiding force for U.S. stock market gains.

Investors around the world are increasingly thinking of the U.S. as a "safe haven," and not just the Treasury market, which has long been referred to this way. According to RBC Capital Markets, the U.S. economy as a whole is now perceived as having "safe-haven" characteristics—and, importantly, this positive sentiment is spilling into the stock market as well.

While easing concerns about the spread of the coronavirus (COVID-19) outside of China have helped lift the S&P 500 to new all-time highs lately, we think this notion of domestic economic resilience has played an even greater role in boosting the market. The S&P 500 has rallied 4.4 percent so far this year, while other markets have collectively slipped 0.3 percent, as measured by the FTSE All-World ex-U.S. Index.

This sentiment—whether fully warranted or not—is unlikely to dissipate anytime soon considering the domestic expansion is poised to persist and other major economies are facing headwinds.

We believe this should help the U.S. equity market deliver at least moderate returns this year—albeit amid any volatility that could arise due to global economic forces or transitory factors such as the coronavirus.

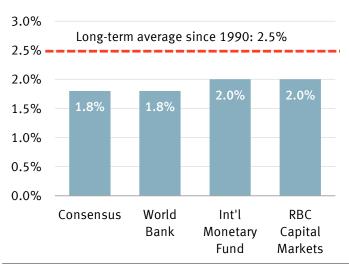
# **Good vibrations**

The positive attitude about the U.S. comes despite expectations that domestic economic activity could trail last year's pace.

RBC Capital Markets forecasts 2020 GDP growth of 2.0 percent, down from 2.3 percent in 2019 and below the 2.5 percent longterm average since 1990. The consensus estimate of economists

#### Economists anticipate below-average growth

2020 U.S. annual real GDP growth forecasts (y/y %)



Source - RBC Capital Markets, Bloomberg (consensus), World Bank, International Monetary Fund

#### Market pulse

- **3** U.S. consumer spending power zapped?
- **3** How the coronavirus is spilling into Canada's economy
- 4 A smorgasbord of politics in Europe
- 4 Spike in China's virus cases on new way of counting

Click <u>here</u> for authors' contact information. Priced (in USD) as of 2/13/20 market close, ET (unless otherwise stated). **For important disclosures and required non-U.S. analyst disclosures, see <u>page 6.</u> Produced: Feb 13, 2020 17:03ET; Disseminated: Feb 13, 2020 17:20ET** 



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. and the projection by the World Bank are more subdued, both calling for only 1.8 percent GDP growth this year.

Nevertheless, since the Phase 1 trade deal with China, CEO confidence in the economy, expectations for capital spending, and hiring intentions have crept up. Also, pockets of weakness that surfaced last year, particularly in the manufacturing sector, have improved.

U.S. consumers have carried a disproportionate load this expansion cycle, as the chart illustrates, and we think this will persist in 2020. Employment and wage growth trends remain healthy.

# **Relative refuge**

We think the "safe-haven" perceptions about the U.S. are partly the result of a "best house in a so-so neighborhood" phenomenon because other key economies face headwinds.

China is expected to slow materially due to the coronavirus outbreak and lingering structural challenges. Given the information that's been released about the virus thus far, RBC Global Asset Management forecasts China GDP growth of 3.0 percent in Q1 instead of the usual 6.0 percent level. It anticipates full-year 2020 growth will slow to 5.6 percent from its prior 5.9 percent estimate and 6.1 percent last year. The Chinese government seems committed to stimulating the economy, and has the capacity to do so, in our view.

Europe's economy has stabilized and some green shoots have even sprouted lately. But it is still likely to only muddle along this year. RBC Capital Markets forecasts a paltry 1.0 percent growth rate for the euro area in 2020, down from 1.2 percent last year.

India's economy—more important than is often given credit—is also in retreat. RBC Global Asset Management estimates GDP growth will drift down to 5.5 percent in 2020 from 6.1 percent in 2019 and a 7.2 percent average rate since 2009.

# Too many good vibrations?

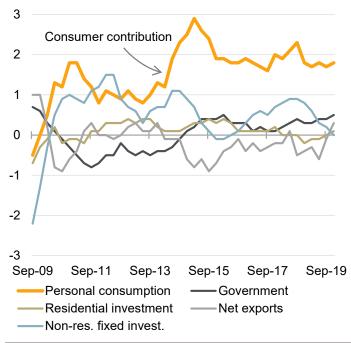
There is a downside to the so-called "safe-haven" sentiment.

While we think it has resulted in money flowing into the U.S. market that may have otherwise found different destinations, it has also brought about highly euphoric positioning among institutional investors in U.S. equities.

According to RBC Capital Markets, an important proxy for attitudes and positioning of institutional investors is at the highest level since at least 2006. Specifically, this is indicated by asset managers' net long position in S&P futures. This measure became elevated in late 2019, and in January it surged well beyond the peaks in previous years.

#### Consumers have carried the biggest load

Contribution to U.S. real GDP growth during this expansion cycle (in percentage points)



Source - Bloomberg Intelligence, Bureau of Economic Analysis, RBC Wealth Management; quarterly data through 12/31/19

Effectively, this means institutional investors have much more bullish positioning in U.S. equities than normal. Euphoric sentiment can be a contrary indicator for market performance. In such circumstances, at the very least, the market is more vulnerable to a pullback if bad news hits.

#### Support system

Even if a pullback materializes in the coming months, the good news is the U.S. equity market is more correlated to GDP trends over time than many other major markets.

Since 1990, there has been a nearly 60 percent correlation between S&P 500 performance and GDP growth, whereas the correlation is under 40 percent for markets in Europe, a study by RBC Capital Markets found.

While continued economic growth is no guarantee the U.S. equity market will follow along in lockstep, we think it does provide a foundation for at least moderate or average returns in 2020—albeit with some volatility along the way.



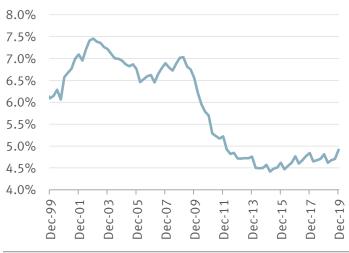
# United States

#### Alan Robinson - Seattle

- The U.S. stock market hit new highs again during the week, prompting investors to scrutinize and justify the historically high valuation of the broad market. RBC Capital Markets, LLC Head of U.S. Equity Strategy Lori Calvasina addressed this in her monthly deep dive. In her most recent survey of institutional investors, she noted that only 11% of respondents viewed U.S. equity valuations as attractive or very attractive.
- Calvasina noted that the recent rotation into equities by tactical fund managers was largely funded by a reduction in bond allocations. In our view, this gets to the heart of the justification for **current stock valuations—they may look expensive in isolation, but they look inexpensive relative to the low level of interest rates.** We believe that as long as interest rates resist moving significantly higher, stocks can continue to yield positive returns, and perhaps trade back up to the valuation level highs seen over the past six years.
- Given the importance of the U.S. consumer to the strength of the economy, any data that casts shade on consumers' likely spending power gets our attention. The release of a report on credit card debt by the New York Fed during the week was one such example. The report notes that total **credit card balances have risen to \$927 billion, well above the peak seen prior to the 2008 financial crisis**. It also notes that the proportion of debt overdue by 90 days or more rose to an eight-year high of 5.3%.
- However, it is important to put this figure in context. While the delinquency rate has indeed trended higher, personal incomes have grown even more strongly during this cycle. Consequently, **credit card debt as a share of total personal income has only increased slowly**, and is still far below the levels seen prior to the 2008 crash (see chart).
- In political news, **Senator Bernie Sanders won the New Hampshire Democratic primary, but underperformed expectations**. The centrist candidates, former South Bend, Ind., Mayor Pete Buttigieg and Senator Amy Klobuchar, finished second and third, respectively, and performed better than expected. This provided some support to U.S. equity markets, as some of Sanders' fiscal and regulatory policies have spooked institutional investors.
- However, the eventual outcome of the contest to challenge U.S. President Donald Trump won't be clearer until a majority of states have weighed in, likely after the "Super Tuesday" primaries on March 3.

# Credit card delinquencies are rising, but overall debt levels are still low

U.S. credit card debt as a percentage of personal income



Source - Haver Analytics, RBC Economics, RBC Wealth Management; quarterly data through 12/31/19  $\,$ 

# Canada

Carolyn Schroeder & Richard Tan, CFA - Toronto

- The current Canadian earnings season is well underway, with approximately 20% of the S&P/TSX Composite Index having reported thus far. Results have been generally in line with or slightly better than consensus expectations. Year to date, the S&P/TSX is up approximately 4%, but market participants will likely pay close attention to the upcoming results of the Financials and Energy sectors as these two together make up roughly half of the index. With earnings season in full bloom, headline risks of further escalation in the coronavirus outbreak continue to be center stage. The total number of confirmed cases has crossed the 40,000 threshold on a global basis, far exceeding the scale of the SARS outbreak back in 2003.
- The longer the **coronavirus outbreak** disrupts China's economy and economic activity, the greater the potential for a temporary spillover into other countries, including Canada. At this point, the **economic impact in Canada looks limited to a pullback in international air travel, along with some disruption to industrial supply chains** as a result of production interruptions in China. First, we expect China-Canada bilateral travel to decline, and Air Canada has already announced the suspension of all flights to Beijing and Shanghai until at least the beginning of March, joining a growing list of airlines globally cutting flights to and from China. Second, **concerns about Chinese fuel demand have pushed global oil prices lower**, with WTI crude now trading around \$52/barrel, versus closer to \$60/barrel ahead

of the outbreak. While that drop should be temporary, it will presumably reduce revenue for the Canadian oil & gas sector in the near term. For now, the negative economic fallout in Canada from the coronavirus will just **add to an already soft economic growth backdrop that RBC Economics thinks is putting the Bank of Canada in a position to cut the policy rate by midyear**.



Frédérique Carrier & Thomas McGarrity, CFA - London

- Political developments dominated recent European news. The leader of Germany's Christian Democratic Union (CDU) and prime contender to become the next chancellor, Annegret Kramp-Karrenbauer, resigned from her post following a scandal in local elections. Changes within the CDU do not impact German Chancellor Angela Merkel's ruling coalition, which is widely expected to complete its term ending in September 2021. The policies of the key contenders to lead the CDU do not differ materially, and the chosen candidate is likely to run for the chancellorship at the next election.
- Nevertheless, this news and the result of the Irish elections weighed on the euro, which reached a 33-month low of 1.0874 against the dollar. Sinn Féin, the party traditionally linked to the IRA, mustered a surprisingly strong 37 seats in Parliament, one less than the party with the most seats. Sinn Féin will attempt to form a government with a number of left-wing parties, having campaigned on housing and health care issues. The party's strong showing illustrates the plight of mainstream centrist parties, which often seem to struggle to convince voters they will successfully tackle key issues. The euro was also probably held back by a perception that the U.S. dollar is a "safe haven" in the face of the coronavirus outbreak. A weaker euro will be a boon to the exporting corporate sector.
- Sovereign fixed income markets were much more forgiving. **The spreads of Italian bond yields over their German equivalents narrowed to levels last seen in early 2018**, before the right-wing populists and EU-sceptic League party stepped into government. Meanwhile, **Greek bond spreads over German bonds returned to 2009 levels**. Both cases suggest markets are no longer concerned about the countries' political risks.
- In the UK, Chancellor of the Exchequer Sajid Javid resigned over pressure from Downing Street to fire his advising team and replace it with special advisors appointed by the prime minister's office. He becomes the shortestserving chancellor. Rishi Sunak, 39 years old and chief

secretary to the Treasury for seven months, was appointed to replace Javid. Gilt yields rose and the pound rallied, as market participants expect the UK will move towards more aggressive fiscal stimulus.

# Asia Pacific

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

- Asia equity markets have traded mostly higher during the week as sentiment improved on news that the pace of new **confirmed coronavirus infections slowed** yesterday to its lowest level since late January.
- The positive news quickly turned negative after Chinese officials revised the method for counting infections to include cases confirmed by clinical diagnosis (using CT scans to diagnose patients). As a result, Hubei reported 14,840 new cases (13,332 clinically diagnosed) and the number of fatalities more than doubled to 242 for February 12. Excluding the clinically diagnosed cases, the increase in global new cases would be 1,912, little changed from the previous day. All eyes will be on tomorrow's numbers update that should help determine if the massive jump is a one-time adjustment or the beginning of a sharp deterioration of the current situation.
- We believe the increase in social contact within China as workers return to work in the coming days could lead to another rise in new infections. However, we also believe that any possible increase may be on a smaller scale compared to the past two weeks, given heightened public awareness of the disease.
- China's government has taken decisive steps to prevent a virus-driven economic downturn. The latest measures include allocating US\$10.3 billion to fight the virus, new tax guidelines to reduce financial pressure in key sectors, and extending special re-lending funds (totaling US\$43 billion) to help key enterprises combat the coronavirus impact.
- **DBS Group** (DBS SP Equity), the largest bank in Singapore, reported strong FY2019 results. Management did not make any changes to its previous 2020 guidance but stated that under the scenario of the coronavirus being controlled by summer, it expects a 1%–2% revenue impact and the specific provision to rise a few basis points while the general provision should provide some cushion. DBS will be providing liquidity relief measures for customers affected by the virus outbreak.



# MARKET SCORECARI

# Data as of February 13, 2020

| Equities (local currency) | Level      | MTD   | YTD    | 1 yr   | 2 yr   | Govt bonds (bps chg)   | Yield    | MTD   | YTD   | 1 yr   |    |
|---------------------------|------------|-------|--------|--------|--------|------------------------|----------|-------|-------|--------|----|
| S&P 500                   | 3,373.94   | 4.6%  | 4.4%   | 22.6%  | 26.7%  | U.S. 10-Yr Tsy         | 1.619%   | 11.2  | -29.9 | -108.3 |    |
| Dow Industrials (DJIA)    | 29,423.31  | 4.1%  | 3.1%   | 15.2%  | 19.4%  | Canada 10-Yr           | 1.394%   | 12.1  | -30.8 | -54.0  |    |
| NASDAQ                    | 9,711.97   | 6.1%  | 8.2%   | 30.9%  | 38.5%  | U.K. 10-Yr             | 0.652%   | 12.8  | -17.0 | -53.0  |    |
| Russell 2000              | 1,693.74   | 4.9%  | 1.5%   | 9.8%   | 13.3%  | Germany 10-Yr          | -0.386%  | 4.8   | -20.1 | -50.9  | -  |
| S&P/TSX Comp              | 17,821.17  | 2.9%  | 4.4%   | 14.0%  | 17.1%  | Fixed Income (returns) | Yield    | MTD   | YTD   | 1 yr   |    |
| FTSE All-Share            | 4,150.02   | 2.3%  | -1.1%  | 5.5%   | 5.3%   | U.S. Aggregate         | 2.09%    | -0.3% | 1.7%  | 9.5%   | 1  |
| STOXX Europe 600          | 431.08     | 5.0%  | 3.7%   | 18.1%  | 16.3%  | U.S. Invest Grade Corp | 2.62%    | -0.1% | 2.2%  | 14.3%  | 1  |
| EURO STOXX 50             | 3,846.74   | 5.7%  | 2.7%   | 20.1%  | 15.1%  | U.S. High Yield Corp   | 5.15%    | 1.0%  | 1.1%  | 9.8%   | 1  |
| Hang Seng                 | 27,730.00  | 5.4%  | -1.6%  | -2.7%  | -7.1%  | Currencies             | Rate     | MTD   | YTD   | 1 yr   |    |
| Shanghai Comp             | 2,906.07   | -2.4% | -4.7%  | 6.8%   | -8.8%  | U.S. Dollar Index      | 99.1000  | 1.8%  | 2.8%  | 2.0%   | 1  |
| Nikkei 225                | 23,827.73  | 0.7%  | 0.7%   | 12.7%  | 12.2%  | CAD/USD                | 0.7538   | -0.2% | -2.1% | -0.1%  |    |
| India Sensex              | 41,459.79  | 1.8%  | 0.5%   | 15.1%  | 20.9%  | USD/CAD                | 1.3265   | 0.2%  | 2.1%  | 0.1%   |    |
| Singapore Straits Times   | 3,220.09   | 2.1%  | -0.1%  | -0.8%  | -5.7%  | EUR/USD                | 1.0840   | -2.3% | -3.3% | -3.7%  | -1 |
| Brazil Ibovespa           | 115,662.40 | 1.7%  | 0.0%   | 20.7%  | 43.0%  | GBP/USD                | 1.3046   | -1.2% | -1.6% | 1.6%   | -  |
| Mexican Bolsa IPC         | 45,005.12  | 2.0%  | 3.4%   | 6.4%   | -6.1%  | AUD/USD                | 0.6720   | 0.4%  | -4.3% | -5.2%  | -1 |
| Commodities (USD)         | Price      | MTD   | YTD    | 1 yr   | 2 yr   | USD/JPY                | 109.8200 | 1.4%  | 1.1%  | -1.1%  |    |
| Gold (spot \$/oz)         | 1,576.13   | -0.8% | 3.9%   | 20.7%  | 18.5%  | EUR/JPY                | 119.0500 | -0.9% | -2.2% | -4.8%  | -1 |
| Silver (spot \$/oz)       | 17.65      | -2.2% | -1.2%  | 13.3%  | 6.4%   | EUR/GBP                | 0.8310   | -1.1% | -1.8% | -5.2%  | -  |
| Copper (\$/metric ton)    | 5,747.00   | 3.5%  | -6.5%  | -6.1%  | -17.2% | EUR/CHF                | 1.0618   | -0.7% | -2.2% | -6.6%  | -  |
| Oil (WTI spot/bbl)        | 51.42      | -0.3% | -15.8% | -4.6%  | -13.1% | USD/SGD                | 1.3899   | 1.8%  | 3.3%  | 2.2%   |    |
| Oil (Brent spot/bbl)      | 56.49      | -2.9% | -14.4% | -11.2% | -9.9%  | USD/CNY                | 6.9770   | 1.0%  | 0.2%  | 3.2%   | 1  |
| Natural Gas (\$/mmBtu)    | 1.83       | -0.4% | -16.3% | -28.8% | -29.3% | USD/MXN                | 18.5990  | -1.3% | -1.7% | -4.3%  |    |
|                           |            |       |        |        |        | USD/BRL                | 4.3537   | 1.7%  | 8.2%  | 15.8%  | 3  |

Source - Bloomberg. Note: 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. Data as of 9:45 pm GMT 2/13/20.

Examples of how to interpret currency data: CAD/USD 0.75 means 1 Canadian dollar will buy 0.75 U.S. dollar. CAD/USD -2.1% return means the Canadian dollar fell 2.1% vs. the U.S. dollar year to date. USD/JPY 109.82 means 1 U.S. dollar will buy 109.82 yen. USD/JPY 1.1% return means the U.S. dollar rose 1.1% vs. the yen year to date.

# Authors

Kelly Bogdanova – San Francisco, United States kelly.bogdanova@rbc.com; RBC Capital Markets, LLC

Alan Robinson – Seattle, United States alan.robinson@rbc.com; RBC Capital Markets, LLC

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

In the event that this is a compendium report (covers six or more companies), RBC Wealth Management may choose to provide important disclosure information by reference. To access current

disclosures, clients should refer to <u>https://www.rbccm.com/</u> <u>GLDisclosure/PublicWeb/DisclosureLookup.aspx?EntityID=2</u> to view disclosures regarding RBC Wealth Management and its affiliated firms. Such information is also available upon request to RBC Wealth Management Publishing, 60 South Sixth St, Minneapolis, MN 55402.

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). 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/ Outperform, Sector Perform, and Underperform 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.

**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.

| Distribution of Ratings - RBC Capital Markets, LLC Equity Research |                  |         |       |         |  |  |  |  |  |  |  |
|--|------------------|---------|-------|---------|--|--|--|--|--|--|--|
|  |                  |         |       |         |  |  |  |  |  |  |  |
| As of December 31, 2019  |                  |         |       |         |  |  |  |  |  |  |  |
| Investment Banking Se  |                  |         |       |         |  |  |  |  |  |  |  |
|  | g Past 12 Months |         |       |         |  |  |  |  |  |  |  |
| Rating   | Count            | Percent | Count | Percent |  |  |  |  |  |  |  |
| Buy [Top Pick & Outperform]  | 765              | 51.97   | 225   | 29.41   |  |  |  |  |  |  |  |
| Hold [Sector Perform]  | 625              | 42.46   | 127   | 20.32   |  |  |  |  |  |  |  |
| Sell [Underperform]  | 82               | 5.57    | 5     | 6.10    |  |  |  |  |  |  |  |

# 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 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 thirdparty 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 <u>https://www.rbccm.com/GLDisclosure/</u><u>PublicWeb/DisclosureLookup.aspx?EntityID=2</u>. 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: 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.

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.

© RBC Capital Markets, LLC 2020 – Member NYSE/FINRA/SIPC © RBC Dominion Securities Inc. 2020 – Member Canadian Investor Protection Fund © RBC Europe Limited 2020 © Royal Bank of Canada 2020

All rights reserved RBC1253