

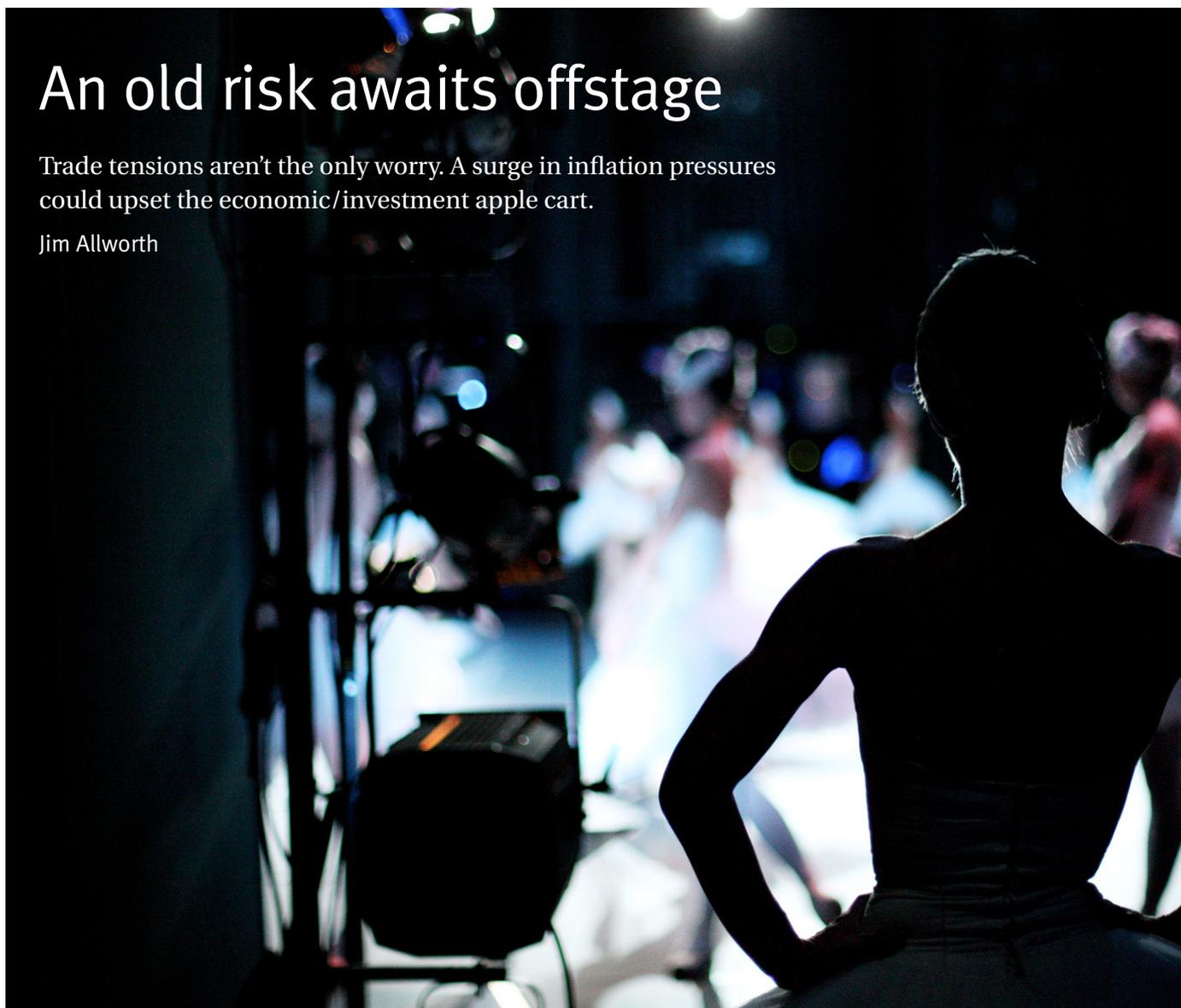
Global Insight

Focus Article

An old risk awaits offstage

Trade tensions aren't the only worry. A surge in inflation pressures could upset the economic/investment apple cart.

Jim Allworth



For important and required non-U.S. analyst disclosures, see page 7

All values in U.S. dollars and priced as of March 29, 2018, market close, unless otherwise noted.



**Wealth
Management**

An old risk waits offstage



Jim Allworth
Vancouver, Canada
jim.allworth@rbc.com

There are more than trade tensions to worry about. A surge in price pressures—not in anyone’s forecast, including our own or the Fed’s—could upset the economic/investment apple cart. Two conditions that could push inflation uncomfortably higher are present simultaneously for the first time in a decade. Lean against developing inflation risks.

Leaving politics and potential trade wars aside for the moment, an eerie calm has descended on the economic and investment backdrop:

- All the developed economies are growing at solid, if unspectacular rates, as is China and much of Asia. Russia and Brazil have pulled out of deep downturns.
- Purchasing Managers’ Indexes (measures of economic activity) are at elevated levels pretty well everywhere, except perhaps China. Forward-looking indicators suggest industrial output will continue to grow.
- Unemployment rates continue to fall everywhere. Businesses in the U.S., Canada, and Japan cite difficulty in attracting and retaining qualified employees as a challenging business constraint. Wages are growing and consumers are confident.
- Corporate profits are strong, while upbeat management guidance points to continued growth in revenues and earnings through 2019.
- Central banks remain mostly accommodative, while commercial banks are out looking for creditworthy businesses and individuals to whom to lend.

What could disturb this happy, constructive equilibrium? In our view, something that is least expected—a sustained surge in inflation rates—would substantially worsen the global economic and investment outlook.

Possible change of trend



Source - RBC Wealth Management, U.S. Federal Reserve; data through Feb. 2018

An old risk waits offstage

An inflation surprise would push interest rates higher and alter the outlook for stocks, in our opinion.

On the policy front, this would force central banks to tighten faster than currently planned. Most central banks in the developed economies have a core inflation target of 2.0%. In all those countries inflation has been gradually picking up but remains below that threshold. After trying to avoid slipping into deflation for several years, most central bankers would breathe a sigh of relief if inflation were to move back up into a more “normal” zone.

But if it looked like inflation was headed toward 3%, asset markets might not wait for the Federal Reserve or the European Central Bank to make up their minds. The ultralow bond yields of the past several years have persisted because of the consistently low rate of inflation as well as the assurances of monetary policymakers that any move to “normalise” monetary conditions would be undertaken gradually and patiently. Unexpectedly strong inflation rates would call both presumptions into question.

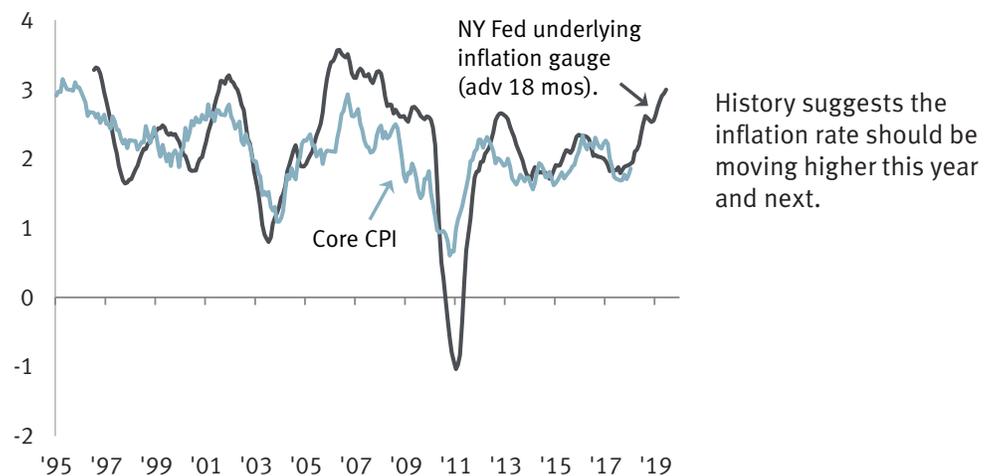
Bond investors typically demand a coupon rate well above the prevailing rate of inflation to protect against higher-than-expected inflation over the life of the bond. Conviction that inflation rates were going to stay low has persuaded bond investors in recent years to accept an unusually low cushion of such protection. Upsetting the apple cart of inflation expectations, were it to occur, might result in bond yields moving up by more than just the increase in the inflation rate.

Equity prices, for their part, would probably undergo some recalibration too. Rising corporate bond yields often act to bring price-to-earnings (P/E) multiples down, while a faster pace of monetary tightening raises risks of recession, bringing closer the prospect of an eventual decline in corporate profits and an accompanying bear market for equities.

Are there reasons to be concerned?

Let us say right here that a damaging surge in inflation is not in our forecasts for any of the developed economies or the emerging economies. We are looking for moderately higher inflation in 2018, with a little more to come in 2019.

Indications of higher inflation to come



Source - RBC Wealth Management, U.S. Federal Reserve Bank of New York

An old risk waits offstage

Pre-conditions for higher inflation are present.

That said, there is at least one leading indicator that leaves open the possibility this year's widely expected gradual increase in inflation rates could be somewhat greater than forecast, with possibly more to come in 2019. The Underlying Inflation Gauge (UIG) published monthly and calculated by the New York Federal Reserve (see chart on previous page) has done a good job of flagging changes in the rate of growth of the core Consumer Price Index in the U.S. 18 months or so ahead of time. The UIG has been in an uptrend for 22 months, suggesting the inflation rate should be moving higher through this year and well into next.

Two factors looked at together also suggest there is a risk of underestimating inflation over the next couple of years. The old monetarist dictum states inflation is the result of "too much money chasing too few goods." Arguably there is too much money and has been ever since central banks adopted aggressively accommodative policies in the wake of the Great Recession. In the intervening nine years money supply in the biggest economies has grown appreciably faster than GDP.

Too much money

Since Q3 2008	U.S.	Eurozone	Japan
Growth in GDP	33.1%	17.5%	6.3%
Growth in money supply	76.3%	42.8%	34.4%

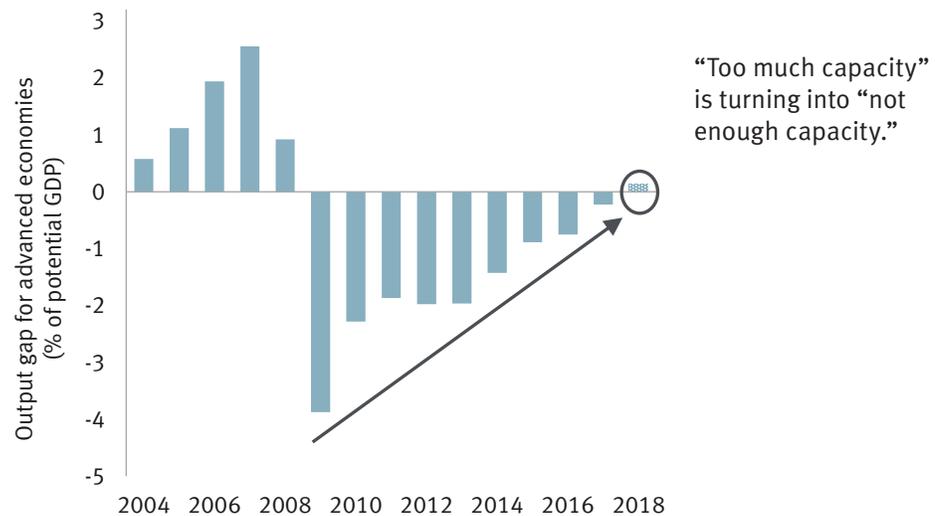
Money supply growth has outstripped GDP growth.

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

This rapid growth of money supply concerned many observers who expected an inevitably damaging bout of inflation. But that excessive inflation never arrived. Just the opposite: deflation has been a preoccupying worry of central banks until very recently. One explanation has it that the "too few goods" part has been missing. There has been a great deal of excess capacity available in the developed economies even as China and much of emerging Asia were adding substantial new productive capability. This has kept prices of many goods subdued or even declining despite the growth in the money supply.

But today, fixed asset investment in China has slowed considerably while the government actively tries to shutter excess capacity in several basic industries. Meanwhile, the so-called "output gap" has closed in the developed world, with "excess capacity" turning into "not enough capacity" in several countries, including the U.S. (see chart on following page). So, one has to acknowledge the combined conditions of *too much money chasing too few goods* may be increasingly operative over the next couple of years and for the first time in a decade.

Economic slack finally gone in the developed world



Note: International Monetary Fund (IMF) estimate for 2018
Source - IMF, Haver Analytics, RBC Global Asset Management

We think the appropriate stance for most investors is one that leans against developing inflation risks.

Lean against risk

We think the appropriate stance for most investors is one that leans against developing inflation risks. We were already forecasting some increased inflation for the coming year. It's noteworthy that the Fed has recently pushed its own core inflation target to 2.1% for 2019, above its long-term target of 2.0% for the first time in years. Both our forecast and the Fed's fall a long way short of a damaging surge in price pressures.

That said, higher inflation than anyone is expecting would pose a significant risk to an investment portfolio. In a world where the output gap is in danger of closing for the first time in a decade and where there will continue to be excess money sitting in global bank accounts for some time to come, there is a greater probability that inflation expectations could undergo an upward shift that markets have not yet factored in.

Such a shift would hold ramifications for:

- The pace and eventual extent of central bank tightening;
- The spread between market interest rates and the inflation rate;
- The spread between corporate bond yields and government yields;
- The valuation (P/E ratio) of the equity markets; and
- The appropriate sector composition of equity portfolios.

Research resources

This document is produced by the Global Portfolio Advisory Committee within RBC Wealth Management's Portfolio Advisory Group. The RBC Wealth Management 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.

Global Portfolio Advisory Committee members:

Jim Allworth – Co-chair; Investment Strategist, RBC Dominion Securities Inc.

Kelly Bogdanova – Co-chair; Portfolio Analyst, RBC Wealth Management Portfolio Advisory Group – Equities, RBC Capital Markets, LLC

Frédérique Carrier – Co-chair; Managing Director, Head of Investment Strategies, Royal Bank of Canada Investment Management (U.K.) Limited

Mark Bayko, CFA – Head, Portfolio Management, RBC Dominion Securities Inc.

Craig Bishop – Lead Strategist, U.S. Fixed Income Strategies Group, RBC Wealth Management Portfolio Advisory Group, RBC Capital Markets, LLC

Laura Cooper – Head of FX Solutions and Strategy, Royal Bank of Canada Investment Management (U.K.) Limited

Janet Engels – Head of Portfolio Advisory Group U.S., RBC Wealth Management, RBC Capital Markets, LLC

Tom Garretson, CFA – Fixed Income Portfolio Strategist, RBC Wealth Management Portfolio Advisory Group, RBC Capital Markets, LLC

Christopher Girdler, CFA – Fixed Income Portfolio Advisor, RBC Wealth Management Portfolio Advisory Group, RBC Dominion Securities Inc.

Patrick McAllister, CFA – Canadian Equities Portfolio Advisor, RBC Wealth Management Portfolio Advisory Group – Equities, RBC Dominion Securities Inc.

Jay Roberts, CFA – Head of Investment Solutions & Products, RBC Wealth Management Hong Kong, RBC Dominion Securities Inc.

Alan Robinson – Portfolio Analyst, RBC Wealth Management Portfolio Advisory Group – U.S. Equities, RBC Capital Markets, LLC

Alastair Whitfield – Head of Fixed Income - British Isles, Royal Bank of Canada Investment Management (U.K.) Limited

The RBC Investment Strategy Committee (RISC) consists of senior investment professionals drawn from individual, client-focused business units within RBC, including the Portfolio Advisory Group. The RISC builds a broad global investment outlook and develops specific guidelines that can be used to manage portfolios. The RISC is chaired by Daniel Chornous, CFA, Chief Investment Officer of RBC Global Asset Management Inc.

Required disclosures

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: Jim Allworth, Mark Bayko, Christopher Girdler, Patrick McAllister, Jay Roberts, and Richard Tan, employees of RBC Wealth Management USA's foreign affiliate RBC Dominion Securities Inc.; and Frédérique Carrier, Laura Cooper, and Alastair Whitfield, 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 <http://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), 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 (as described below).

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. 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 (as described below).

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: As of March 31, 2013, RBC Capital Markets, LLC suspends its Average and Above Average risk ratings. 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 <http://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.

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.

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. 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. 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.

© 2018 RBC Capital Markets, LLC - Member NYSE/FINRA/SIPC
© 2018 RBC Dominion Securities Inc. - Member Canadian Investor Protection Fund
© 2018 RBC Europe Limited
© 2018 Royal Bank of Canada
All rights reserved
RBC1253