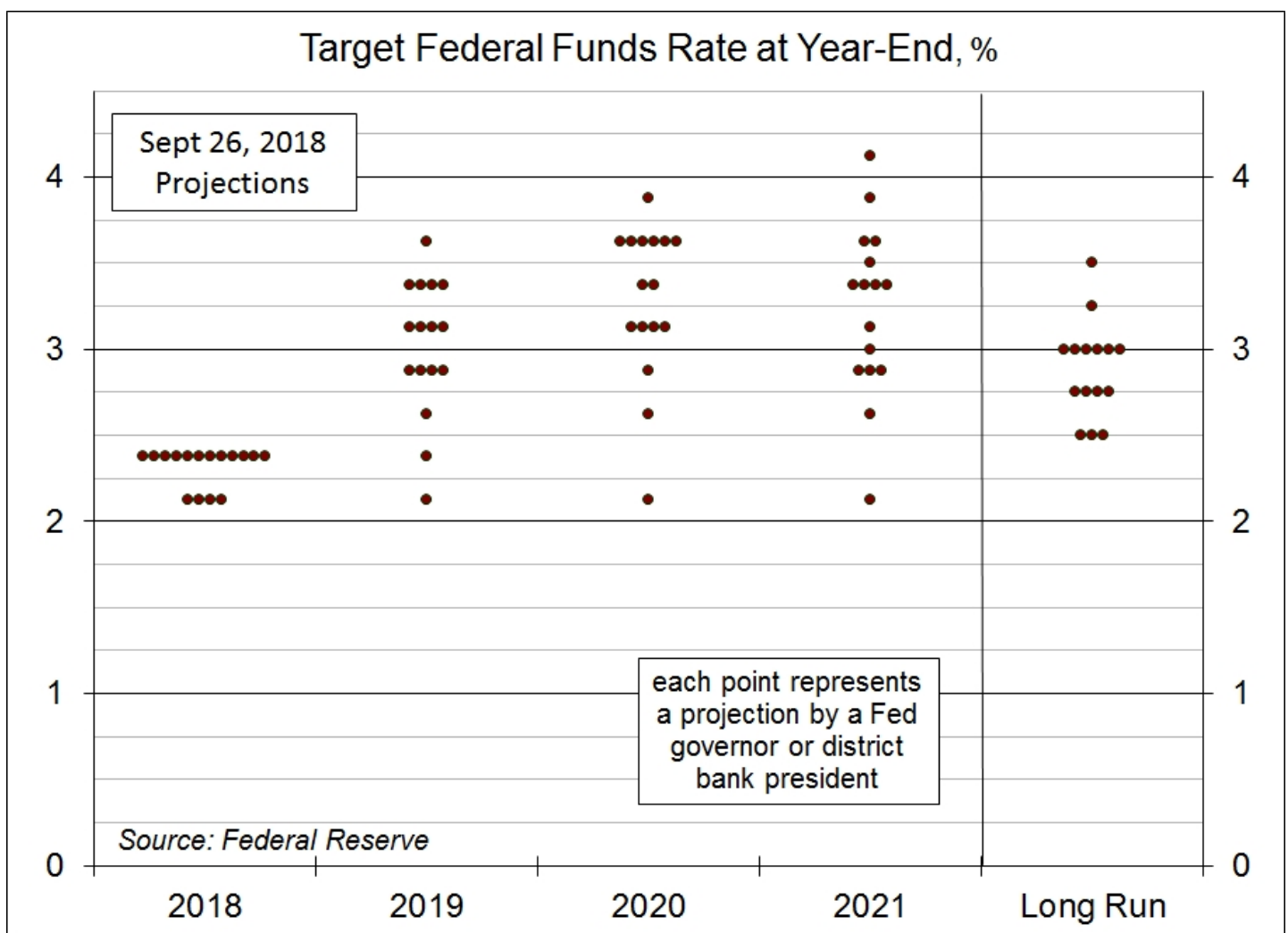


Weekly Economic Monitor -- Fed Policy Outlook

The Federal Open Market Committee is widely expected to raise short-term interest rates for the fourth time this year, although this outcome is not fully factored in (the federal funds futures market is pricing in about a 78% chance of a December 19 rate hike). As with every other Fed policy meeting, senior officials (the 5 Fed governors and 12 district bank presidents) will submit revised projections of growth, unemployment, and inflation. We'll also get a new dot plot, where the dots represent officials' estimates of the appropriate year-end federal funds target for each of the next few years. Fed Chairman Powell will conduct a post-meeting press conference.

The financial press and market participants have had a hard time with the dot plot, typically focusing on the median of the dots, rather than on their range. The Fed is not on a preset path. Monetary policy decisions will remain data-dependent (specifically, this means what the incoming information tells us about the economic outlook). There is a considerable amount of uncertainty regarding each dot.



Over the current tightening cycle, the Fed has been seeking to normalize monetary policy. As the Fed gets closer to normal, the key issue is where the current federal funds rate is relatively to its long-term equilibrium. This natural rate is unknown, can change over time, and estimates will vary among the individual Fed officials. In late November, Fed Chairman Powell indicated that the current federal funds rate was near the bottom of the range of estimates for the long-term equilibrium rate. In the September dot plot, 12 of the 16 dots were evenly split on whether there would be two, three, or four rate hikes in 2019 (the median was three). That dispersion reflects different views regarding the economic outlook.

Please read domestic and foreign disclosure/risk information beginning on page 4 and Analyst Certification on page 4.

A lot has changed since the mid-September Federal Open Market Committee meeting. The stock market has declined. The leverage loan market has corrected. Bank credit, which had been getting easier even as the Fed raised short-term interest rates, appears to have tightened somewhat. The housing sector data have been soft. We're now seeing a broader impact from tariffs and signs of slower global growth. Inflation pressures, higher in the first half of 2018, have moderated. These should be yellow flags for the Fed. On the other hand, the job market has tightened further and wage growth has picked up, which should keep the Fed in tightening mode. U.S. economic growth is expected to slow next year, reflecting constraints in the labor market, but the expansion should continue. However, the list of concerns should lead to a more cautious Fed in 2019.

	Treasury Yields								Dollar				Equities		
	13-wk	26-wk	52-wk	2-yr	3-yr	5-yr	10-yr	30-yr	\$/Euro	\$/BP	JY/\$	CD/\$	NASD	SPX	DJIA
11/16/18	2.36	2.50	2.68	2.81	2.85	2.90	3.08	3.33	1.140	1.284	112.76	1.317	7247.87	2736.27	25413.22
12/07/18	2.40	2.54	2.68	2.72	2.72	2.70	2.85	3.14	1.139	1.275	112.60	1.330	6969.25	2633.08	24388.95
12/14/18	2.41	2.55	2.68	2.74	2.73	2.74	2.89	3.15	1.130	1.256	113.36	1.337	6910.67	2599.96	24100.51

Data Recap – Investors were more focused on trade policy and Brexit uncertainty. Intraday volatility remained elevated. Stock market weakness kept downward pressure on long-term interest rates. The economic data reports were consistent with moderate economic growth and moderate inflation.

Retail Sales rose 0.2% in November (+4.2% y/y), held down by a 2.3% drop in gasoline sales (+8.2% y/y), with mixed revisions to September and October. Auto sales rose 0.2% (+1.4% y/y). Ex-autos, retail sales rose 0.2% (+4.9% y/y). Ex-autos, gasoline, and building materials, sales rose 0.6%, following a 0.7% gain in October (+4.6% y/y).

Industrial Production rose 0.6% in November (+3.9% y/y), boosted by a 2.5% increase in energy extraction (+16.7% y/y) and a 3.3% rise in the output of utilities (+4.3% y/y). Manufacturing output was flat (+2.2% y/y), following a 0.1% decline in October (revised from +0.3%). Auto production, which have been choppy in recent months, rose 0.3% (-9.1% before seasonal adjustment, +3.4% y/y). Ex-autos, factory output was flat (-0.9% before seasonal adjustment, +1.8% y/y). Oil and gas well drilling edged up 0.1% (+19.7% y/y, but down 4.6% since June). Sales at department stores rose 0.4% (-0.2% y/y), while sales for nonstore retailers (mail order and internet) jumped 2.3% (+10.8% y/y).

The **Consumer Price Index** was unchanged in November (+2.2% y/y), reflecting a 2.2% drop in energy prices (+3.1% y/y). Food rose 0.2% (+1.4% y/y), with a continued y/y split between food at home (+0.4% y/y) and food away from home (+2.6% y/y). Gasoline (4.3% of the overall CPI) fell 4.2% (-7.3% before seasonal adjustment, and +5.0% y/y). Ex-food & energy, the CPI rose 0.2% (+2.2% y/y). Ex-food, energy, and shelter, the CPI rose 0.1% in November, up 1.5% y/y (median forecast: +2.2%) – unchanged if you also exclude used vehicles (+1.5% y/y).

Real Hourly Earnings rose 0.3% in November (+0.8% y/y). For production workers, real earnings rose 0.3% (+1.0% y/y).

The **Producer Price Index** rose 0.1% in November (+2.5% y/y), as higher food and transportation costs offset lower energy costs. Food prices rose 1.3% (2.9% y/y). Wholesale gasoline prices fell 14.0% (-17.7% before seasonal adjustment, and -1.2% y/y). Trade services (which measure changes in margins received by wholesalers and retailers) rose 0.3% (+2.2% y/y). Transportation and warehousing services rose 1.2% (+6.2% y/y). Airline passenger services rose 2.3% (+4.8% y/y). Ex-food, energy, and trade services & energy, the PPI rose 0.3% (+2.8% y/y). Rail transportation (freight) rose 0.6% (+6.5% y/y), while truck transportation rose 1.0% (+7.0% y/y), and air transportation of freight rose 1.3% (+1.3% y/y). Pipeline inflation pressures were mixed. Ex-food & energy, unprocessed intermediate goods rose 3.3% y/y, with processed intermediate goods up 4.2% y/y. Intermediate services rose 3.1% y/y. Note that tariffs and taxes are not included directly in the PPI, but pricing decisions made in reaction to tariffs are included.

The **Import Price Index** sank 1.6% in November (+0.7% y/y), mostly reflecting a 12.1% drop in petroleum (+4.4% y/y). Note that these figures do not include tariffs. Ex-food & fuels, import prices slipped 0.2% (+0.4% y/y). Ex-fuels, prices of imported raw materials continued to fall (-0.4%), following a sharp rise earlier in the year (+2.1% y/y). Prices of imported capital goods slipped 0.1% (-0.2% y/y). Prices of imported autos and parts were flat (+0.3% y/y). Prices of imported consumer goods were unchanged (+0.4% y/y). Prices of agricultural exports rebounded 1.8% (-1.7% y/y).

Business Inventories rose 0.6% in October. Retail inventories, the only new information in the report, rose 0.8% (+4.0% y/y), with autos up 1.1% (+8.0% y/y) and non-autos up 0.7% (+1.8% y/y). It's only one month, but it likely like inventory growth in 4Q18 may be roughly the same as in 3Q18 (a sharp pickup in inventory growth added 2.3 percentage points to 3Q18 GDP growth).

Jobless Claims fell by 27,000 in the week ending December 8. It's not unusual to see volatility in these data during this time of year, due to

difficulties in the seasonal adjustment. The four-week average was 224,750, still very low by historical standards.

The Index of **Small Business Optimism** fell to 104.8 in November, vs. 107.4 in October and 107.5 a year ago. The general business outlook softened. The earnings trend remained soft, but above normal. Hiring plans remained strong. Capital spending plans remained moderately strong.

The **European Central Bank** left short-term interest rates unchanged and, as expected, announced the end of its asset purchases. The ECB also enhanced its forward guidance on its reinvestment policy: "reinvesting, in full, the principal payments from maturing securities purchased for an extended period of time past the date when it starts raising the key ECB interest rates."

This Week – The Fed is expected to raise short-term interest rates for the fourth time this year, but the financial markets may not have that fully factored in. Investors will be interested in what the Fed signals about the pace in 2019. We will get revised economic projections from senior Fed officials, including a new dot plot (and the dots are likely to edge a little lower). The financial press and market participants tend to focus too much on the median of the dots, rather than their range.

Coming Events and Data Release

January 1	New Year's Day (markets closed)	January 9	FOMC Minutes (December 18-19)
January 3	ADP Payroll Estimate (Dec) ISM Manufacturing Index (December)	January 30	FOMC Policy Decision, press conf.
January 4	Employment Report (December)	March 20	FOMC Policy Decision, press conf.
January 7	ISM Non-Manufacturing Index (December) NCAA Football Championship	May 1	FOMC Policy Decision, press conf.
		June 19	FOMC Policy Decision, press conf.

IMPORTANT INVESTOR DISCLOSURES

Raymond James & Associates (RJA) is a FINRA member firm and is responsible for the preparation and distribution of research created in the United States. Raymond James & Associates is located at The Raymond James Financial Center, 880 Carillon Parkway, St. Petersburg, FL 33716, (727) 567-1000. Non-U.S. affiliates, which are not FINRA member firms, include the following entities that are responsible for the creation and distribution of research in their respective areas: in Canada, Raymond James Ltd. (RJL), Suite 2100, 925 West Georgia Street, Vancouver, BC V6C 3L2, (604) 659-8200; in Europe, Raymond James Euro Equities SAS (also trading as Raymond James International), 40 rue La Boetie, 75008, Paris, France, +33 1 45 64 0500, and Raymond James Financial International Ltd., Broadwalk House, 5 Appold Street, London, England EC2A 2AG, +44 203 798 5600.

This document is not directed to, or intended for distribution to or use by, any person or entity that is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation. The securities discussed in this document may not be eligible for sale in some jurisdictions. This research is not an offer to sell or the solicitation of an offer to buy any security in any jurisdiction where such an offer or solicitation would be illegal. It does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. Past performance is not a guide to future performance, future returns are not guaranteed, and a loss of original capital may occur. **Investors should consider this report as only a single factor in making their investment decision.**

For clients in the United States: Any foreign securities discussed in this report are generally not eligible for sale in the U.S. unless they are listed on a U.S. exchange. This report is being provided to you for informational purposes only and does not represent a solicitation for the purchase or sale of a security in any state where such a solicitation would be illegal. Investing in securities of issuers organized outside of the U.S., including ADRs, may entail certain risks. The securities of non-U.S. issuers may not be registered with, nor be subject to the reporting requirements of, the U.S., including ADRs, may entail certain risks. The securities of non-U.S. issuers may not be registered with, nor be subject to the reporting requirements of, the U.S. Securities and Exchange Commission. There may be limited information available on such securities mentioned in this report. Please ask your Financial Advisor for additional details and to determine if a particular security is eligible for purchase in your state.

The information provided is as of the date above and subject to change, and it should not be deemed a recommendation to buy or sell any security. Certain information has been obtained from third-party sources we consider reliable, but we do not guarantee that such information is accurate or complete. Persons within the Raymond James family of companies may have information that is not available to the contributors of the information contained in this publication. Raymond James, including affiliates and employees, may execute transactions in the securities listed in this publication that may not be consistent with the ratings appearing in this publication.

Raymond James ("RJ") research reports are disseminated and available to RJ's retail and institutional clients simultaneously via electronic publication to RJ's internal proprietary websites ([RJ Client Access](#) & [RJ Capital Markets](#)). Not all research reports are directly distributed to clients or third-party aggregators. Certain research reports may only be disseminated on RJ's internal Proprietary websites; however, such research reports will not contain estimates or changes to earnings forecasts, target price, valuation or investment or suitability rating. Individual Research Analysts may also opt to circulate published research to one or more clients electronically. This electronic communication is discretionary and is done only after the research has been publically disseminated via RJ's internal factors including, but not limited to, the client's individual preference as to the frequency and manner of receiving communications from Research Analysts. For research reports, models, or other data available on a particular security, please contact your Sales Representative or visit [RJ Client Access](#) or [RJ Capital Markets](#).

Links to third-party websites are being provided for information purposes only. Raymond James is not affiliated with and does not endorse, authorize, or sponsor any of the listed websites or their respective sponsors. Raymond James is not responsible for the content of any third-party website or the collection of use of information regarding any website's users and/or members.

Additional information is available on request.

Analyst Information

Registration of Non-U.S. Analysts: The analysts listed on the front of this report who are not employees of Raymond James & Associates, Inc., are not registered/qualified as research analysts under FINRA rules, are not associated persons of Raymond James & Associates, Inc., and are not subject to FINRA Rule 2241 restrictions on communications with covered companies, public companies, and trading securities held by a research analyst account.

Analysts Holdings and Compensation: Equity analysts and their staffs at Raymond James are compensated based on a salary and bonus system. Several factors enter into the bonus determination, including quality and performance of research product, the analyst's success in rating stocks versus an industry index, and support effectiveness to trading and the retail and institutional sales forces. Other factors may include but are not limited to: overall ratings from internal (other than investment banking) or external parties and the general productivity and revenue generated in covered stocks.

The analyst Scott J. Brown, primarily responsible for the preparation of this research report, attests to the following: (1) that the views and opinions rendered in this research report reflect his or her personal views about the subject companies or issuers and (2) that no part

of the research analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views in this research report. In addition, said analyst(s) has not received compensation from any subject company in the last 12 months.

Ratings and Definitions

Raymond James & Associates (U.S.) definitions: **Strong Buy (SB1)** Expected to appreciate, produce a total return of at least 15%, and outperform the S&P 500 over the next six to 12 months. For higher yielding and more conservative equities, such as REITs and certain MLPs, a total return of 15% is expected to be realized over the next 12 months. **Outperform (MO2)** Expected to appreciate and outperform the S&P 500 over the next 12-18 months. For higher yielding and more conservative equities, such as REITs and certain MLPs, an Outperform rating is used for securities where we are comfortable with the relative safety of the dividend and expect a total return modestly exceeding the dividend yield over the next 12-18 months. **Market Perform (MP3)** Expected to perform generally in line with the S&P 500 over the next 12 months. **Underperform (MU4)** Expected to underperform the S&P 500 or its sector over the next six to 12 months and should be sold. **Suspended (S)** The rating and price target have been suspended temporarily. This action may be due to market events that made coverage impracticable, or to comply with applicable regulations or firm policies in certain circumstances, including when Raymond James may be providing investment banking services to the company. The previous rating and price target are no longer in effect for this security and should not be relied upon.

Raymond James Ltd. (Canada) definitions: **Strong Buy (SB1)** The stock is expected to appreciate and produce a total return of at least 15% and outperform the S&P/TSX Composite Index over the next six months. **Outperform (MO2)** The stock is expected to appreciate and outperform the S&P/TSX Composite Index over the next twelve months. **Market Perform (MP3)** The stock is expected to perform generally in line with the S&P/TSX Composite Index over the next twelve months and is potentially a source of funds for more highly rated securities. **Underperform (MU4)** The stock is expected to underperform the S&P/TSX Composite Index or its sector over the next six to twelve months and should be sold.

In transacting in any security, investors should be aware that other securities in the Raymond James research coverage universe might carry a higher or lower rating. Investors should feel free to contact their Financial Advisor to discuss the merits of other available investments.

	Coverage Universe Rating Distribution*		Investment Banking Relationships	
	RJA	RJL	RJA	RJL
Strong Buy and Outperform (Buy)	57%	72%	23%	29%
Market Perform (Hold)	38%	24%	12%	13%
Underperform (Sell)	4%	4%	2%	25%

* Columns may not add to 100% due to rounding.

Suitability Ratings (SR)

Medium Risk/Income (M/INC) Lower to average risk equities of companies with sound financials, consistent earnings, and dividend yields above that of the S&P 500. Many securities in this category are structured with a focus on providing a consistent dividend or return of capital.

Medium Risk/Growth (M/GRW) Lower to average risk equities of companies with sound financials, consistent earnings growth, the potential for long-term price appreciation, a potential dividend yield, and/or share repurchase program.

High Risk/Income (H/INC) Medium to higher risk equities of companies that are structured with a focus on providing a meaningful dividend but may face less predictable earnings (or losses), more leveraged balance sheets, rapidly changing market dynamics, financial and competitive issues, higher price volatility (beta), and potential risk of principal. Securities of companies in this category may have a less predictable income stream from dividends or distributions of capital.

High Risk/Growth (H/GRW) Medium to higher risk equities of companies in fast growing and competitive industries, with less predictable earnings (or losses), more leveraged balance sheets, rapidly changing market dynamics, financial or legal issues, higher price volatility (beta), and potential risk of principal.

High Risk/Speculation (H/SPEC) High risk equities of companies with a short or unprofitable operating history, limited or less predictable revenues, very high risk associated with success, significant financial or legal issues, or a substantial risk/loss of principal.

Stock Charts, Target Prices, and Valuation Methodologies

Valuation Methodology: The Raymond James methodology for assigning ratings and target prices includes a number of qualitative and quantitative factors, including an assessment of industry size, structure, business trends, and overall attractiveness; management effectiveness; competition; visibility; financial condition; and expected total return, among other factors. These factors are subject to change depending on overall economic conditions or industry- or company-specific occurrences.

Target Prices: The information below indicates our target price and rating changes for the subject companies over the past three years.

Risk Factors

General Risk Factors: Following are some general risk factors that pertain to the business of the subject companies and the projected target prices and recommendations included on Raymond James research: (1) Industry fundamentals with respect to customer demand or product/service pricing could change and adversely impact expected revenues and earnings; (2) Issues relating to major competitors or market shares or new product expectations could change investor attitudes toward the sector or this stock; (3) Unforeseen developments with respect to the management, financial condition or accounting policies or practices could alter the prospective valuation; or (4) External factors that affect the U.S. economy, interest rates, the U.S. dollar or major segments of the economy could alter investor confidence and investment prospects. International investments involve additional risks such as currency fluctuations, differing financial accounting standards, and possible political and economic instability.

Additional Risk and Disclosure information, as well as more information on the Raymond James rating system and suitability categories, is available at raymondjames.bluematrix.com/sellside/Disclosures.action. Copies of research or Raymond James' summary policies relating to research analyst independence can be obtained by contacting any Raymond James & Associates or Raymond James Financial Services office (please see RaymondJames.com for office locations) or by calling 727-567-1000, toll free 800-237-5643.

International Disclosures

For clients in the United Kingdom:

For clients of Raymond James Financial International Limited (RJFI): This document and any investment to which this document relates is intended for the sole use of the persons to whom it is addressed, being persons who are Eligible Counterparties or Professional Clients as described in the FCA rules or persons described in Articles 19(5) (Investment professionals) or 49(2) (high net worth companies, unincorporated associations, etc.) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended) or any other person to whom this promotion may lawfully be directed. It is not intended to be distributed or passed on, directly or indirectly, to any other class of persons and may not be relied upon by such persons and is, therefore, not intended for private individuals or those who would be classified as Retail Clients.

For clients of Raymond James Investment Services, Ltd.: This report is for the use of professional investment advisers and managers and is not intended for use by clients.

For purposes of the Financial Conduct Authority requirements, this research report is classified as independent with respect to conflict of interest management. RJFI, and Raymond James Investment Services, Ltd. are authorised and regulated by the Financial Conduct Authority in the United Kingdom.

For clients in France:

This document and any investment to which this document relates is intended for the sole use of the persons to whom it is addressed, being persons who are Eligible Counterparties or Professional Clients as described in "Code Monétaire et Financier" and Règlement Général de l'Autorité des marchés Financiers. It is not intended to be distributed or passed on, directly or indirectly, to any other class of persons and may not be relied upon by such persons and is, therefore, not intended for private individuals or those who would be classified as Retail Clients.

For clients of Raymond James Euro Equities: Raymond James Euro Equities is authorised and regulated by the Autorité de Contrôle Prudentiel et de Résolution and the Autorité des Marchés Financiers.

For institutional clients in the European Economic Area (EEA) outside of the United Kingdom:

This document (and any attachments or exhibits hereto) is intended only for EEA institutional clients or others to whom it may lawfully be submitted.

For Canadian clients:

This report is not prepared subject to Canadian disclosure requirements, unless a Canadian analyst has contributed to the content of the report. In the case where there is Canadian analyst contribution, the report meets all applicable IROC disclosure requirements.

Proprietary Rights Notice: By accepting a copy of this report, you acknowledge and agree as follows:

This report is provided to clients of Raymond James only for your personal, noncommercial use. Except as expressly authorized by Raymond James, you may not copy, reproduce, transmit, sell, display, distribute, publish, broadcast, circulate, modify, disseminate, or commercially exploit the information contained in this report, in printed, electronic, or any other form, in any manner, without the prior express written consent of Raymond James. You also agree not to use the information provided in this report for any unlawful purpose.

This report and its contents are the property of Raymond James and are protected by applicable copyright, trade secret, or other intellectual property laws (of the United States and other countries). United States law, 17 U.S.C. Sec. 501 et seq, provides for civil and criminal penalties for

copyright infringement. No copyright claimed in incorporated U.S. government works.