

## Portfolio Strategy

### 10 Themes for 2021 - Unleashing Excess Cash

**OUR TAKE: [Positive].** Our strategy game plan entering 2021 is to stick to an equity-over-bond preference, with a long bias on cyclical-value sectors such as Financials, Industrials, Discretionary and Resources. Although it will take some time to distribute vaccines and inoculate a critical mass, they are a game changer on account of their expected effectiveness. An economic rebound is broadly expected for 2021, but we believe excess cash at the consumer, business and investors levels could boost growth and asset prices further in 2021. We provide below our 10 themes for 2021:

1. **Piles of stacked cash could soon turn into hot money**
2. **Synchronized downturn, synchronized upturn**
3. **The road to US\$200 EPS**
4. **Income scarcity: The hunt for yield intensifies**
5. **Bond yields: The great normalization**
6. **Go Global**
7. **Small could be big in 2021**
8. **Hard assets shining, CAD roaring**
9. **Sector rotation favors cyclicals**
10. **No Value left behind**
11. **Bonus - Capital markets spring back to life**

#### ANALYST TEAM

[Link to ScotiaView](#)

**Hugo Ste-Marie**, MSc, CFA | Analyst  
514-287-4992  
Scotia Capital Inc. - Canada

**Jean-Michel Gauthier**, MMF, CFA | Associate  
Analyst  
514-287-3661  
Scotia Capital Inc. - Canada

**Simone Arel**, MSc | Associate  
514-287-2967  
Scotia Capital Inc. - Canada

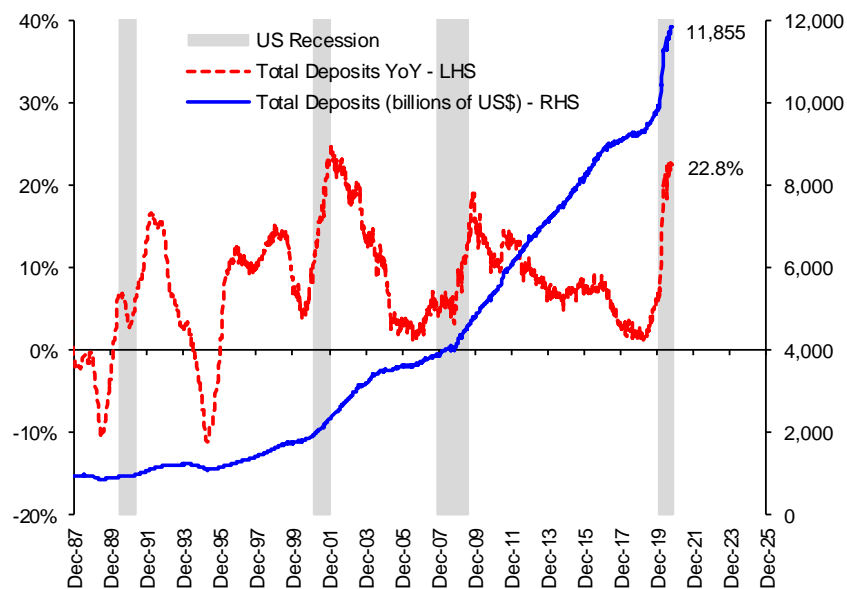
## 10 Themes for 2021 – Unleashing Excess Cash

### 1. Piles of Stacked Cash Could Soon Turn Into Hot Money

An economic rebound is broadly expected for 2021, but we believe the US economy could exceed expectations. Three factors could move the needle: consumer spending, an inventory re-stocking cycle, and corporations opening the spending pigpots.

**Unleashing consumer demand.** Quick and sizable fiscal transfers on top of a rapidly healing job market explain why US consumers' financial position remains relatively healthy. In addition, cash stacked under the bed for rainy days has grown exponentially. As shown in Exhibit 1, cash held in US saving accounts has increased by US\$2T since February to almost US\$12T (+22.5% YOY). To provide some perspective, US\$2T represents 13% of consumer spending in 2019. In our view, a strong appetite for some normalcy will return with the vaccine inoculation, unleashing consumer demand for most things that have been put aside for so long. Part of the extra cash will likely be spent, potentially boosting consumer spending more-than-expected.

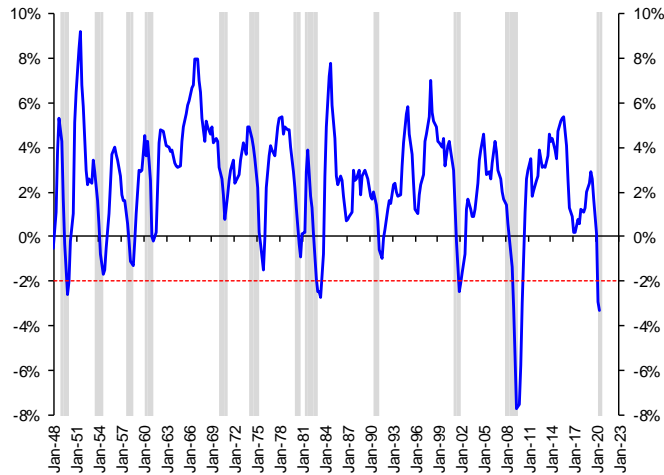
**Exhibit 1: Total Savings Deposits (U.S. Depository Institutions)**



Source: Scotiabank GBM Portfolio Strategy, FRED.

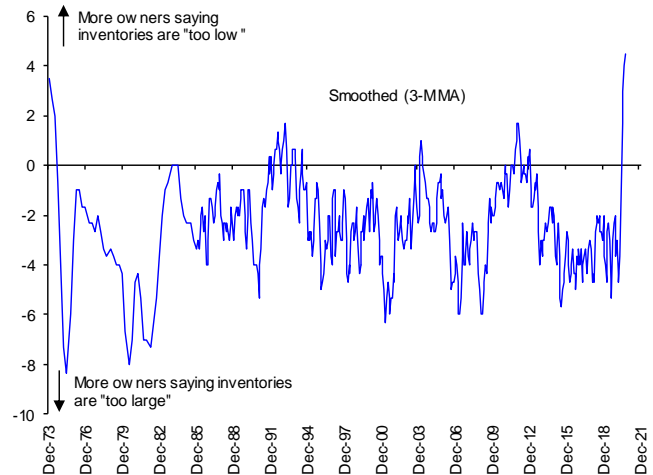
**Inventory re-stocking coming.** The YoY decline in US private inventories is one of the steepest on record going back to the 1940s. See Exhibit 2. If consumers are back, businesses will have to replenish their stock (positive for GDP). According to the latest NFIB survey of small businesses, the net percentage of owners viewing current inventory stocks as “too low” stands at record levels.

**Exhibit 2: U.S. GDP - Real Private Inventories (YOY%)**



Source: Scotiabank GBM Portfolio Strategy, FRED.

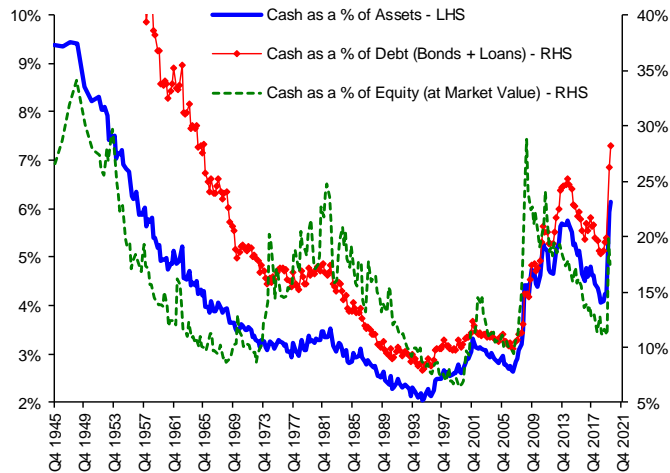
**Exhibit 3: Small Biz Saying Inventories are "Too Low"**



Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

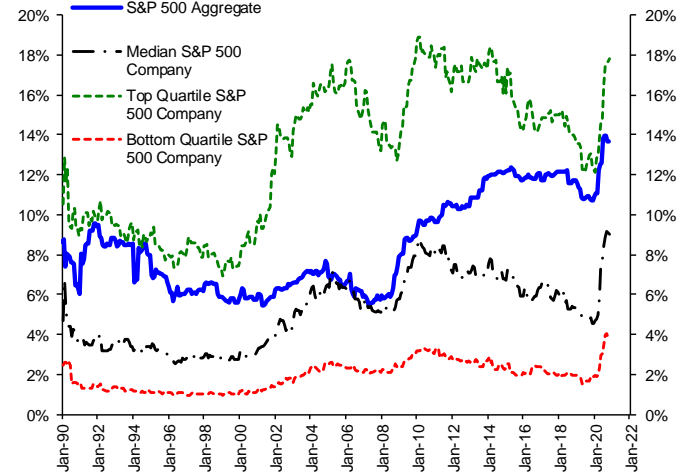
**Corporate America also flush with cash.** Based on several metrics, corporations have rarely set aside as much cash for rainy days as they did in the current crisis. For instance, cash as a % of assets for all US corporations hasn't been this high since the 1950s, while cash as a % of total debt is at levels last seen in the 1960s. See Exhibit 4. Although these high cash positions are skewed towards the mega cap names, even the median S&P 500 company has seen its cash balances exceed the levels reached during the last big scare of the financial crisis. Overall, we believe corporate America will face increasing heat to use that excess cash in various ways (deleverage, capex, M&A, buybacks, or even higher wages). More capex and higher wages would certainly give further boosts to the economy.

**Exhibit 4: US Corporations are Flush with Cash**



Source: Scotiabank GBM Portfolio Strategy, Bloomberg, Federal Reserve.

**Exhibit 5: S&P 500 Companies - Cash as a % of Total Assets**

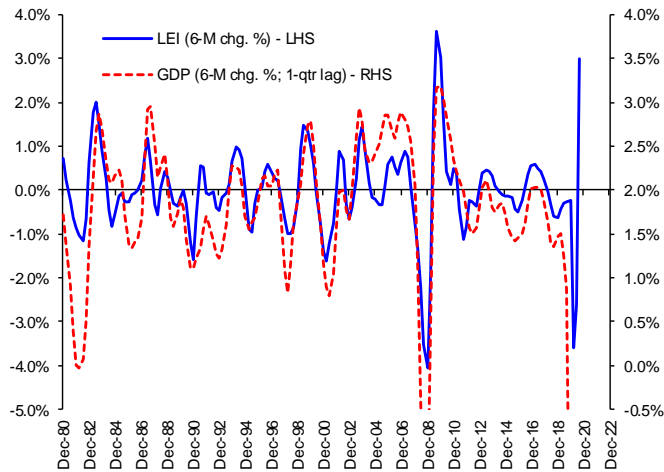


Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

## 2. Synchronized Downturn, Synchronized Upturn

The global downturn experienced in Q1/Q2 has now morphed into a global upturn which should extend into 2021 (see Exhibit 6), underpinned by fiscal and monetary largesse around the world. The leading economic indicator for OECD countries and six major non-OECD economies has indeed been spiking, hinting towards firmer growth ahead. China could be the growth engine next year according to Scotia Economics, which expects the economy to grow 8.5% – a pace of expansion not seen in years. See Exhibit 7.

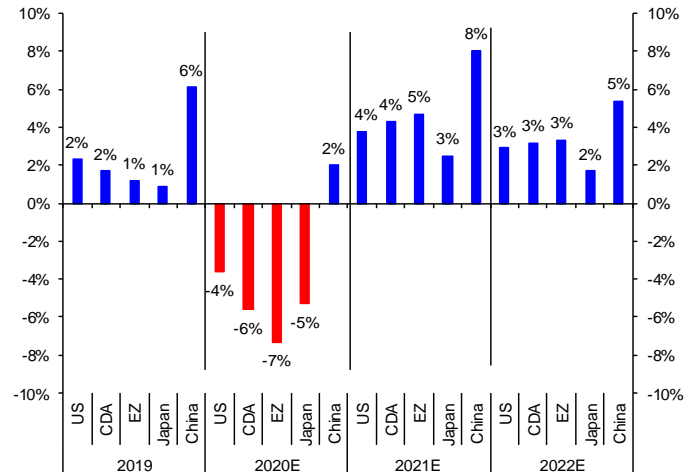
**Exhibit 6: Global Leading Economic Indicator & GDP Growth\***



\*Our GDP/LEI basket includes OECD countries plus 6 major non-OECD economies.

Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

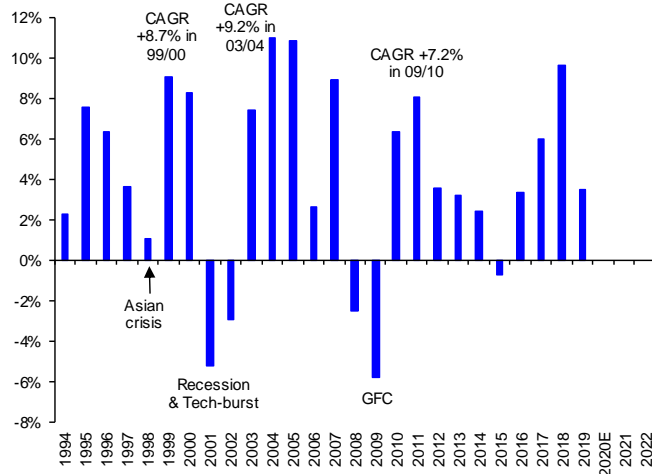
**Exhibit 7: Global GDP – From Contraction to Expansion (consensus estimates)**



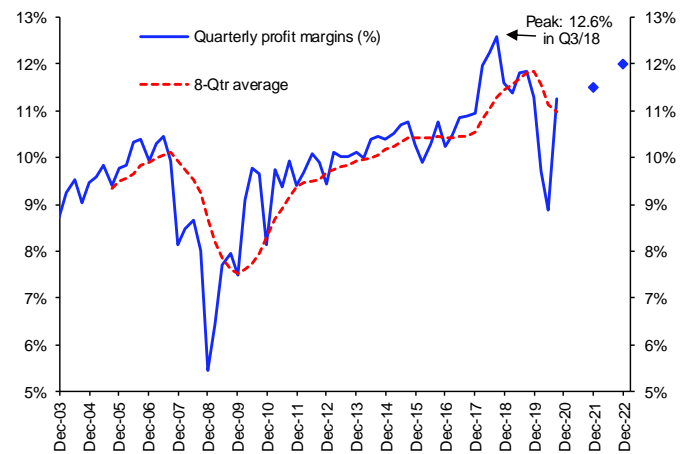
Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

## 3. The Road to US\$200 EPS

We believe that a combo of above-average top-line growth and impressive resiliency in profit margins could push S&P 500 EPS near the US\$200 mark in FY 2022. As illustrated in Exhibit 8, S&P 500 revenue growth is usually quite strong in the two years following a crisis. Moreover, the Q3/20 reporting season highlighted the surprising resiliency of corporate profit margins. Corporate Canada (and America) has done a great job of taking costs out of the system during the pandemic. Turbo-charged top-line growth in '21/'22 (7%-8% CAGR) and profit margins reverting near pre-pandemic highs could pave the way to record earnings and higher stock prices.

**Exhibit 8: S&P 500 Top-Line Growth Tends to Bounce Strongly Post Crisis**


Source: Scotiabank GBM Portfolio Strategy, Bloomberg, Factset.

**Exhibit 9: S&P 500 Quarterly Profit Margins**


Source: Scotiabank GBM Portfolio Strategy, Factset.

**EPS & targets increased.** We review our TSX and S&P 500 EPS forecasts and targets higher. See Exhibit 10. Keep in mind that our EPS forecasts are based-off a weighted-average of our bull/base/bear cases. Based on Nov 30 levels, our new targets imply TR performances of about 9% for the S&P 500 and 12% for the TSX. Equities could deliver more upside if our 2022 EPS “bull” case scenario were to materialize.

**High valuation levels are well supported.** Investors (US\$4.3T in money market assets) have cash to spend once the outlook clears. The Fed (along with other central banks) will also continue to print money. With few alternatives given flattish to negative real yields, hot money could continue to find its way into the stock market and inflate asset prices further.

**Exhibit 10: Scotiabank GBM Financial Forecasts**

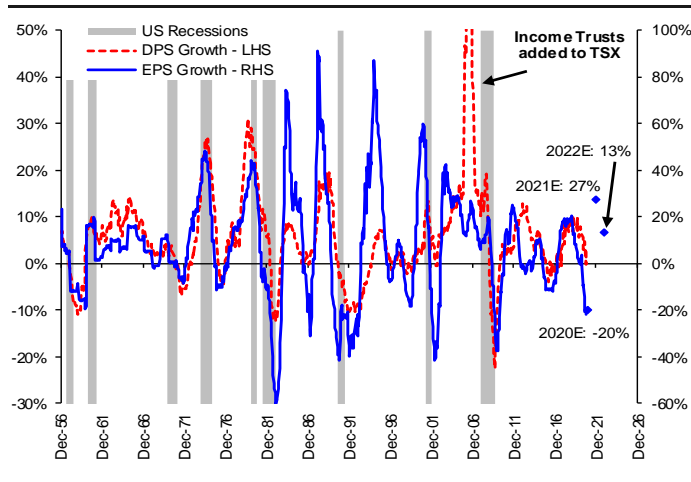
Forecasts	2017	2018	2019	2020E	2021E	2022E
<b>Equity (Year End)</b>						
S&P/TSX	16,209	15,300	17,063		19,200 ↑	
EPS	909	1,018	1,052	832 ↑	1,060 ↑	1,201 ↑
S&P 500	2,673	2,507	3,231		3,900 ↑	
EPS	132	162	163	136 ↑	164 ↑	184 ↑

Source: Scotiabank GBM Portfolio Strategy estimates.

#### 4. Income Scarcity: The Hunt for Yield Intensifies

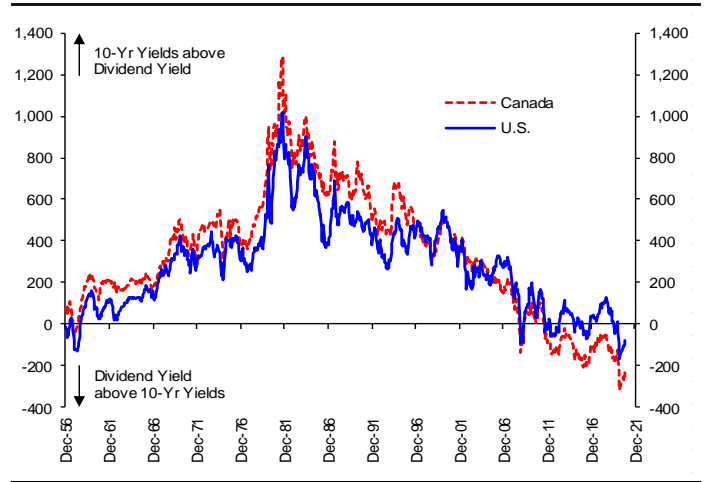
Interest rates on cash deposits and government bond yields should remain quite anemic next year. As traditional sources of income can't fulfill their role anymore, the hunt for yield will likely intensify and investors will have to look for alternatives. Equities appear an obvious choice. After a challenging year, dividend growth should resume in 2021 on the back of improving profitability trends. See Exhibit 11. Moreover, dividend yields have rarely been this attractive versus government bonds in over half a century. See Exhibit 12.

**Exhibit 11: TSX Trailing EPS & DPS Growth (YOY%)**



Source: Scotiabank GBM Portfolio Strategy estimates, CPMS

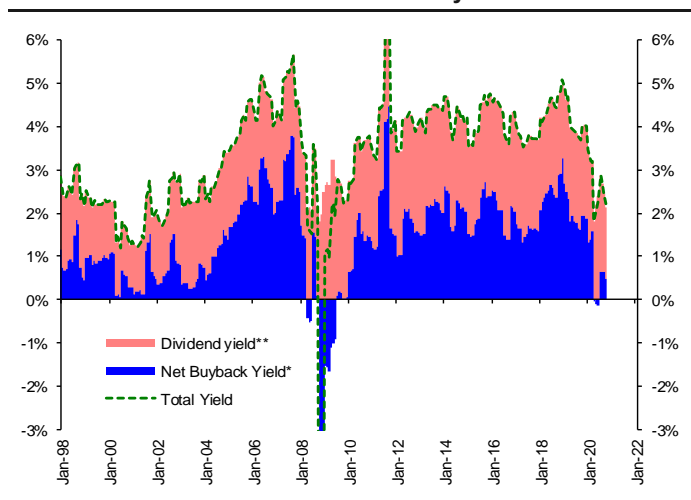
**Exhibit 12: Bond Yields vs Dividend Yield Spread (bp)**



Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

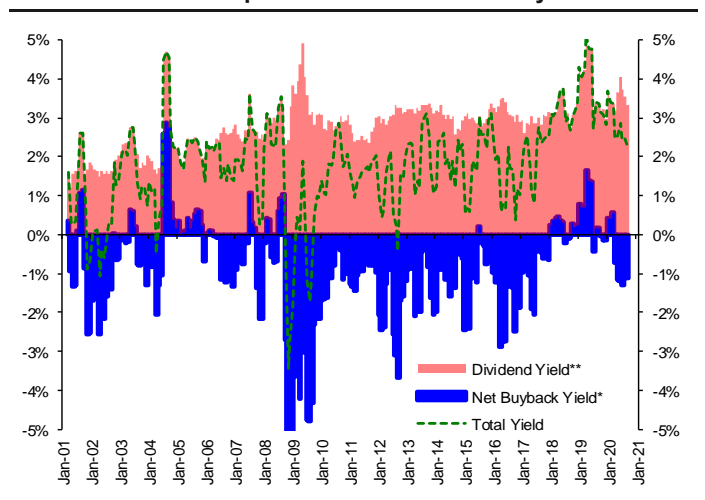
**Buyback programs to restart.** While not a direct source of income, buybacks are also set to recover, juicing total yield generated by equities. As part of cash conservation measures announced in H1/20, most corporations stopped their buyback programs while issuing shares. High cash balance in times of economic recovery should see investors clamour for more return, one way or another. See Exhibits 13 and 14.

**Exhibit 13: S&P 500 Annualized Monthly Total Yield**



\*Measured using S&P 500 company level cash flow statements, netting equity issuance with equity retirement, including stock based compensation  
 \*\*Last 3M of dividend paid annualized to account for quarterly patterns of dividends  
 Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

**Exhibit 14: TSX Composite Annualized Monthly Total Yield**

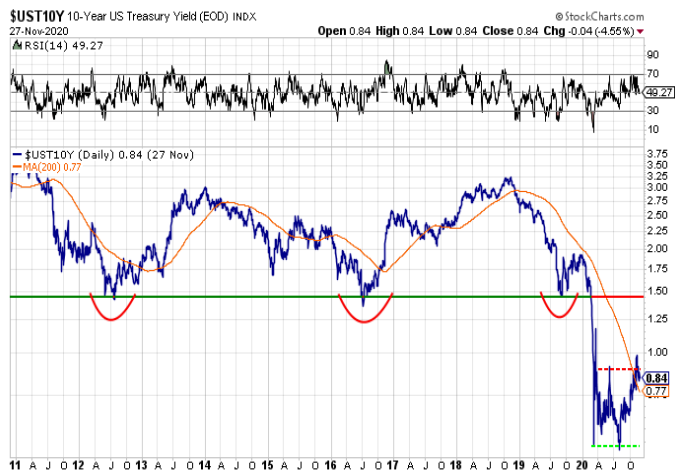


\*Measured using TSX company level cash flow statements, netting equity issuance with equity retirement, including stock based compensation  
 \*\*Last 3M of dividend paid annualized to account for quarterly patterns of dividends  
 Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

## 5. Bond Yields: The Great Normalization

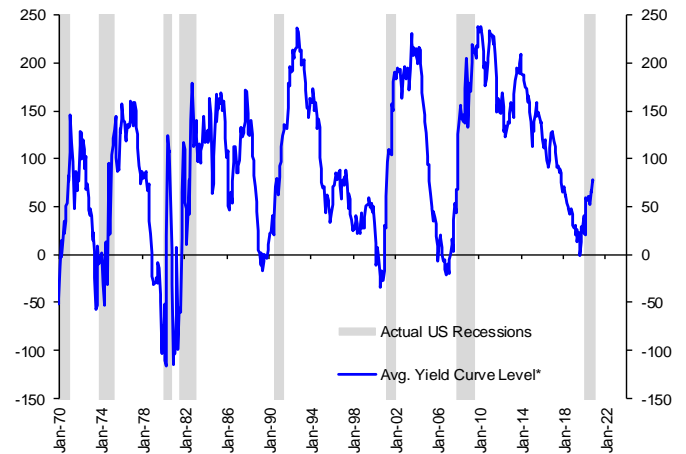
From an asset mix perspective, we believe government bonds have the worst outlook and possess the greatest risk of generating negative returns. Despite a broad normalization in macro data since last summer, bond yields have remained well anchored near their lows until recently. If growth is firmer next year, LT inflation expectations drift higher, and investors demand a higher premium to finance massive fiscal deficits around the world, we believe bond yields could also normalize. Prior to the pandemic, US 10-yr yields were hovering around 1.5%, as illustrated in Exhibit 15. Our US 10-yr bond yields model is even more aggressive, pegging fair value near 1.8%. Since short-term rates remain anchored by central banks, rising LT yields would imply a steeper curve. As shown in Exhibit 16, the steepening phase rarely stops at 75 bp: most of the time, it steepens well in excess of 100 bp. Investors should also start discussing and pricing-in less accommodative central banks by the end of 2021 if global growth is firmer and the COVID-19 stands in the rear-view mirror. A 2013-style “taper tantrum” is thus an increasing possibility late 2021 / early 2022. **SPY > LQD > TLT (or IEF).**

**Exhibit 15: U.S. 10-Yr Yields: Normalization Expected**



Source: Scotiabank GBM Portfolio Strategy, chart courtesy of StockCharts.com

**Exhibit 16: YC Steepening Phases Rarely Peaked < 100 bp**



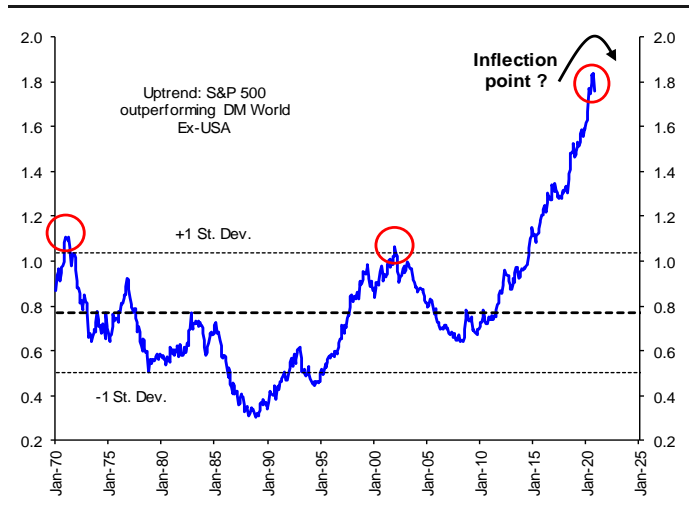
\*Looking at all yield curve combinations between 3M, 2Yr, 5Yr, 10Yr, and 30Yr yields

Source: Scotiabank GBM Portfolio Strategy, Bloomberg, NBER, Federal Reserve.

## 6. Go Global

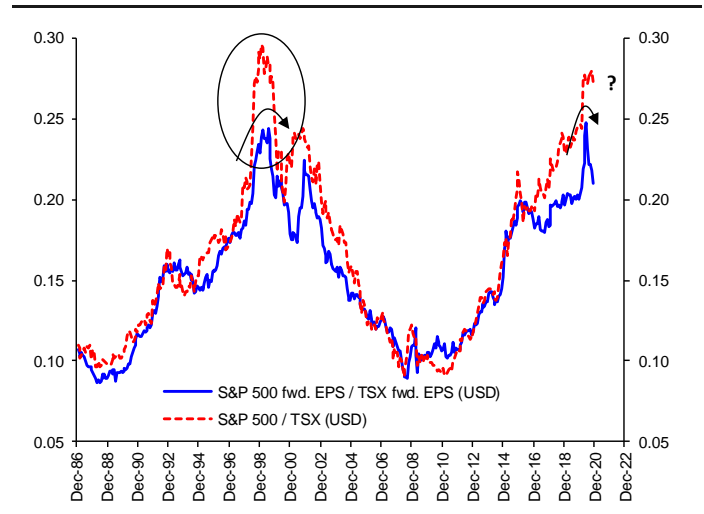
Our preference goes to international equities (TSX, EM, EAFE) over the US. After having underperformed almost continuously since the GFC, a synchronized economic lift-off should stimulate risk-appetite and provide more support to equity markets that have been left behind and trade at more compelling valuations than the US. See Exhibit 17. Although MSCI EAFE and EM indices have surged of late, it is surprising to see them still comfortably below their all-time high reached in 2007! A breakout to a new high would be, technically-speaking, quite bullish after having traded sideways for over a decade now. **Long EWC, EFA, EEM over SPY / XIU, XIN > XSP in Canada.**

Exhibit 17: S&P 500 vs. MSCI DM World Ex-USA



Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

Exhibit 18: S&P 500 vs TSX: Fwd. EPS Ratio and Relative Performance

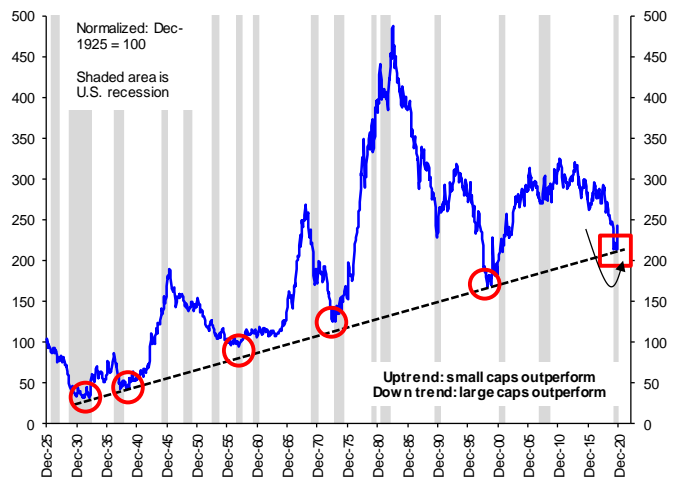


Source: Scotiabank GBM Portfolio Strategy, Refinitiv, Bloomberg

## 7. Small Could Be Big in 2021

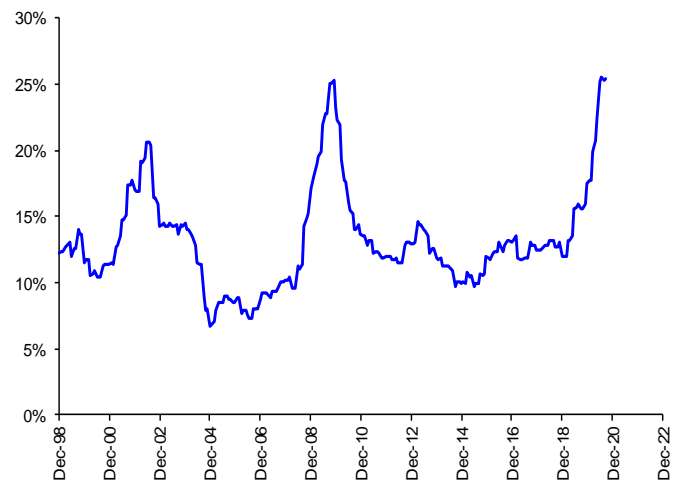
If U.S. small caps end 2020 behind large caps, it would mark their fourth consecutive year of underperformance with six of the last seven years seeing underperformance. All U.S. small cap underperformance cycles since the 1920s ended when the small cap to large cap ratio (using total return indices) was in the vicinity of the ascending trend line shown in Exhibit 19. The ratio hit that trend line recently, suggesting the underperformance cycle has likely run its course. Historically, large cap domination cycle tends to last about six years on average. If the current cycle started in 2013 as we believe, its longevity roughly matches the historical average. Moreover, small cap equities have not been this attractive in years relative to large caps. While small caps' profitability has contracted this year, the percentage of small businesses losing money has likely peaked and should improve sharply next year. **IWM > SPY; XCS > XIU in Canada.**



**Exhibit 19: U.S. Small Caps Relative to Large Caps Since 1925 (TR)**


Performance based on Ibbotson SC TR index from 1925 to 1978 and Russell 2000 (TR) thereafter.

Source: Scotiabank GBM Portfolio Strategy, Morningstar, Shiller.

**Exhibit 20: S&P 500: % of Companies With Negative Trailing EPS**


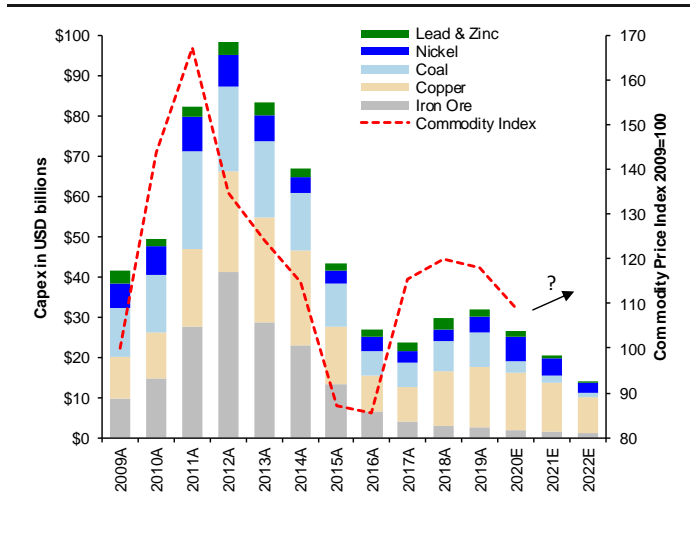
Source: Scotiabank GBM Portfolio Strategy, Bloomberg

## 8. Hard Assets Shining, CAD Roaring

Accelerating growth, dollar weakness, and a decade of falling capex in the mining industry (see Exhibit 21) could offer decent support to commodity markets in 2021/2022. However, the backdrop could be more supportive of base metals/energy than precious metals/gold. A wave of investment in green energy over the next few years bodes well for copper. Regarding energy, we believe oil & gas stocks have probably much more upside than the commodity. For the bullion, USD weakness should help, but lower uncertainty is usually less friendly and real US 10-yr bond yields (while still extremely low) could face upward momentum. We believe gold could trade sideways in a broad range unless inflation pressures accelerate. The environment should help the CAD to reach, and potentially exceed, the US\$0.80 mark next year. **DBB (base metals) > GLD (gold).**

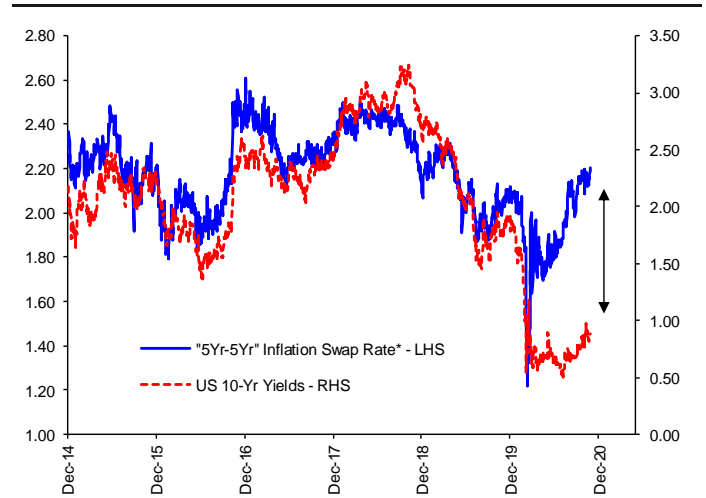
**Inflation: Don't hold your breath, but keep it on the radar.** Inflation pressures should remain weak for the time being: lack of demand or restrained appetite in several sectors as well as the idling of large parts of the workforce should keep price increases in check. Still, the narrative could change later in 2021 if central banks continue to contemplate extremely accommodative monetary policy at a time of closing output gaps and rising commodity prices. Ongoing supply chain disruptions could exacerbate the issue. Interestingly, LT inflation expectations have already started to move. The 5Y-5Y inflation swap forward, which measures market expectations of the average level of inflation over five years five years from now, is standing at 2.2% and rising. If consumer demand roars back to life, demanding normalcy and drawing down their cash savings, supply bottlenecks could turn into run away prices.

**Exhibit 21: Expansion Capex by Commodity vs. Equal-Weighted Commodity Price Index**



Source: Scotiabank GBM estimates, Wood Mackenzie, Bloomberg.

**Exhibit 22: US 10Yr Yields & Inflation Expectations (%)**



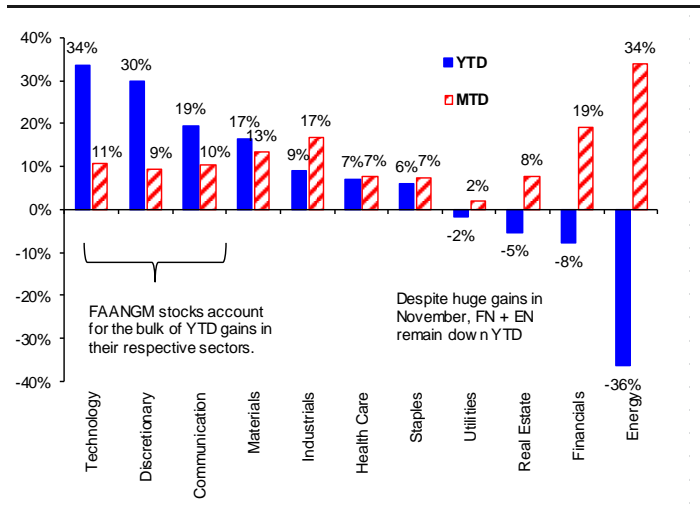
\*Expected inflation in 5-yr for the next 5-yr

Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

## 9. Sector Rotation Favors Cyclical

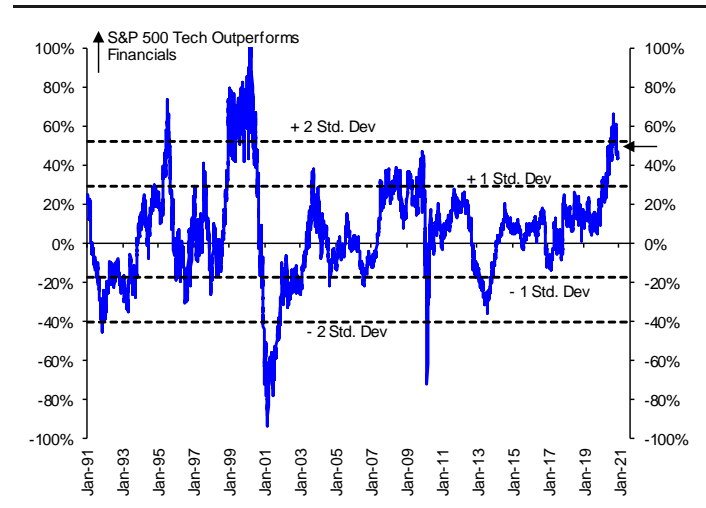
We believe the economic revival should provide more support to “old economy” stocks/sectors relative to their “digital” peers. Granted, cyclical sectors have enjoyed solid gains so far in November, but as illustrated below, some remain down on a YTD basis. Taking a longer-term view, it’s worth highlighting that US Financials are lagging Tech by 46% YOY, which still appears quite extended to us. If growth is visible, cyclical-value sectors appear well positioned to lead next year.

**Exhibit 23: S&P 500: Nov. Gainers Remain Down Big YTD**



Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

**Exhibit 24: S&P 500 Tech Performance vs. Financials (YoY)**

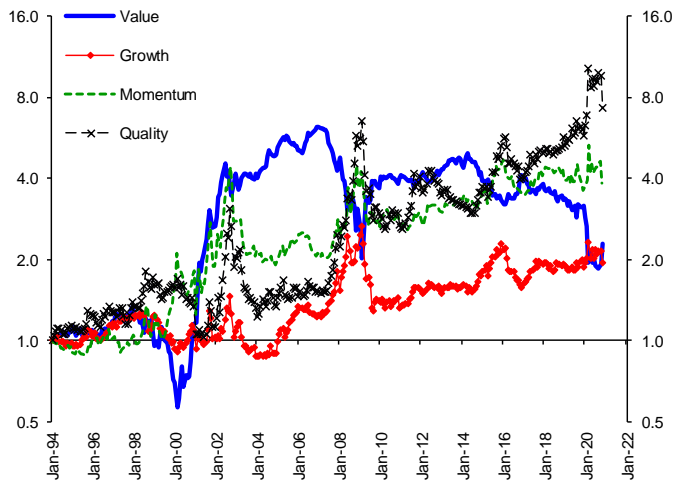


Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

## 10. No Value Left Behind

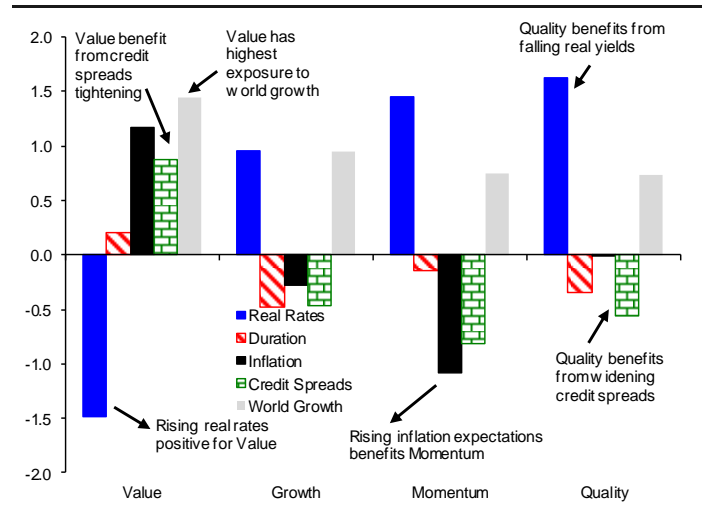
Value's sharp gain in November could be hard to repeat in the short run, but the number of quantitative and qualitative arguments for Value leadership in 2021 has never been greater. First, Value's underperformance cycle has rarely been this extended while relative valuation levels have rarely been as much in favour of Value as they are today. The potential for mean-reversion is thus extremely high. Second, after such a long run of underperformance, there are few true Value believers left. Institutional investors have been mostly net sellers of Value names in 2020 (up to Q3/20), creating large UW to the style. Sell-side has also set the bar extremely low in terms of consensus estimates. Positive surprises/performance in the sector could force a positive feedback loop as investors try to close down their exposure gap. Finally, Value typically enjoys an environment of rising yields and economic recovery. Overall, Value is extremely well positioned to outperform in 2021. We will discuss this theme in greater detail in our SQoRE update note that will be published later today. **IWD (R1000 Value) > IWF (R1000 Growth); XCV > XCG in Canada.**

**Exhibit 25: SQoRE U.S. - Cumulative Outperformance Top 50 vs. Bottom 50 (Log scale)**



Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

**Exhibit 26: SQoRE US Factor Exposure\* by Style**

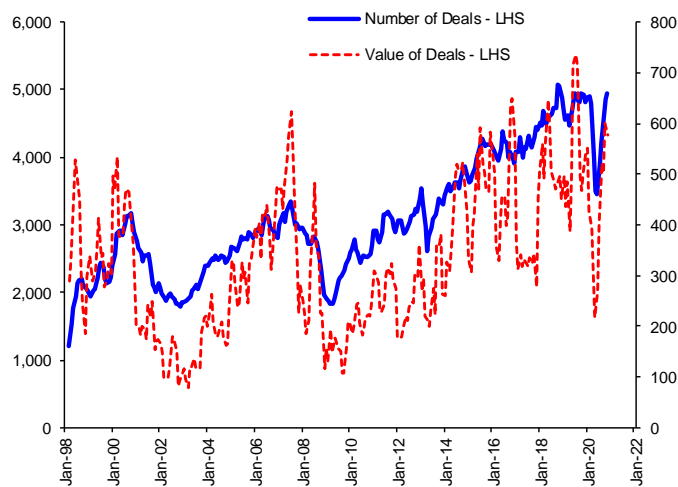


\*Using Last 2 Year of Monthly Total Return  
Source: Scotiabank GBM Portfolio Strategy, Bloomberg, Haver Analytics, FRED.

## 11. Bonus Theme - Capital Markets Spring Back to Life

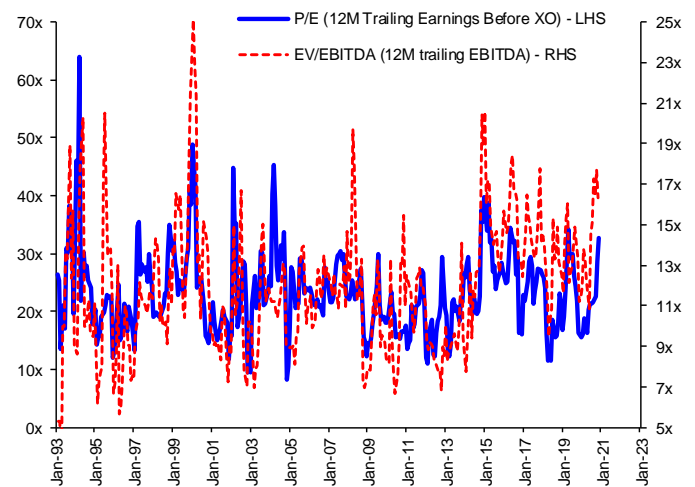
The March sell-off and capital market dislocation raised the spectre of an M&A drought as happened in 2002 and 2009. However, the number and volume of deals quickly jumped back near record highs (see Exhibit 27). Central bank support, cash burning holes in investors and companies' pockets alike, battered asset prices, as well as the need to rationalize or consolidate certain industries, have led to a flurry of M&A activity. Multiples paid on deals have also jumped to some of the highest levels of the last 30 years. We believe this trend will endure in 2021 as cash balances remain high, while debt financing is almost as cheap as prior to the pandemic (looking at corporate spreads on IG US bonds). Regarding positioning, Precious Metal miners in particular are in the midst of a merger boom. Energy could be the next sector in line. Finally, banks are likely to benefit from a bumper year in capital market activity, especially with high refinancing volume and a flurry of IPOs.

**Exhibit 27: North American M&A - Deal Count & Volume (3M Rolling Sum)**



Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

**Exhibit 28: US M&A - Multiple Paid on Transactions (Rolling 3M Basis)**



Source: Scotiabank GBM Portfolio Strategy, Bloomberg.

## Appendix A: Important Disclosures

I, Hugo Ste-Marie, certify that (1) the views expressed in this report in connection with securities or issuers that I analyze accurately reflect my personal views and (2) no part of my compensation was, is, or will be directly or indirectly, related to the specific recommendations or views expressed by me in this report.

This document has been prepared by Research Analysts employed by The Bank of Nova Scotia and/or its affiliates. The Bank of Nova Scotia, its subsidiaries, branches and affiliates are referred to herein as "Scotiabank." "Scotiabank" together with "Global Banking and Markets" is the marketing name of the global corporate and investment banking and capital markets business of The Bank of Nova Scotia and its affiliates. Scotiabank, Global Banking and Markets produces research reports under a single marketing identity referred to as "globally branded research" under U.S rules. This research is produced on a single global research platform with one set of rules which meet the most stringent standards set by regulators in the various jurisdictions in which the research reports are produced. In addition, the Research Analysts who produce the research reports, regardless of location, are subject to one set of policies designed to meet the most stringent rules established by regulators in the various jurisdictions where the research reports are produced.

Scotiabank relies on information barriers to control the flow of non-public or proprietary information contained in one or more areas within Scotiabank into other areas, units, groups or affiliates of Scotiabank. In addition, Scotiabank has implemented procedures to prevent research independence being compromised by any interactions they may have with other business areas of The Bank of Nova Scotia. The compensation of the Research Analyst who prepared this document is determined exclusively by Scotiabank Research Management and senior management (not including investment or corporate banking).

Research Analyst compensation is not based on investment or corporate banking revenues; however, compensation may relate to the revenues of Scotiabank as a whole, of which investment banking, corporate banking, sales and trading are a part. Scotiabank Research will initiate, update and cease coverage solely at the discretion of Scotiabank Research Management. Scotiabank Research has independent supervisory oversight and does not report to the corporate or investment banking functions of Scotiabank.

For Scotiabank, Global Banking and Markets Research Analyst Standards and Disclosure Policies, please visit [www.gbm.scotiabank.com/disclosures](http://www.gbm.scotiabank.com/disclosures).

For additional questions, please contact Scotiabank, Global Banking and Markets Research, 4 King St W, 12th Flr, Toronto, Ontario, M5H 1A1.

Time of dissemination: December 01, 2020, 05:22 ET. Time of production: November 30, 2020, 18:14 ET. Note: Time of dissemination is defined as the time at which the document was disseminated to clients. Time of production is defined as the time at which the Supervisory Analyst approved the document.

## Definition of Scotiabank, Global Banking and Markets Equity Research Ratings

Scotiabank has a three-tiered rating system, with ratings of Sector Outperform, Sector Perform, and Sector Underperform. Each Research Analyst assigns a rating that is relative to his or her coverage universe or an index identified by the Research Analyst that includes, but is not limited to, stocks covered by the Research Analyst.

The rating assigned to each security covered in this report is based on the Scotiabank, Global Banking and Markets Research Analyst's 12-month view on the security. Research Analysts may sometimes express in research reports shorter-term views on these securities that may impact the price of the equity security in a manner directly counter to the Research Analyst's 12-month view. These shorter-term views are based upon catalysts or events that may have a shorter-term impact on the market price of the equity securities discussed in research reports, including but not limited to the inherent volatility of the marketplace. Any such shorter-term views expressed in research report are distinct from and do not affect the Research Analyst's 12-month view and are clearly noted as such.

### Ratings

#### Sector Outperform (SO)

The stock is expected to outperform the average 12-month total return of the analyst's coverage universe or an index identified by the analyst that includes, but is not limited to, stocks covered by the analyst.

#### Sector Perform (SP)

The stock is expected to perform approximately in line with the average 12-month total return of the analyst's coverage universe or an index identified by the analyst that includes, but is not limited to, stocks covered by the analyst.

#### Sector Underperform (SU)

The stock is expected to underperform the average 12-month total return of the analyst's coverage universe or an index identified by the analyst that includes, but is not limited to, stocks covered by the analyst.

#### Focus Stock (FS)

As of April 29, 2019, Scotiabank, Global Banking and Markets discontinued the Focus Stock rating. A stock assigned this rating represented an analyst's best idea(s); stocks in this category were expected to significantly outperform the average 12-month total return of the analyst's coverage universe or an index identified by the analyst that included, but was not limited to, stocks covered by the analyst.

#### Other Ratings

*Tender* – Investors are guided to tender to the terms of the takeover offer.

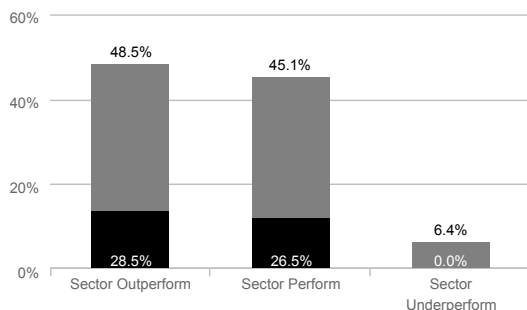
*Under Review* – The rating has been temporarily placed under review, until sufficient information has been received and assessed by the analyst.

#### Risk Ranking

The Speculative risk ranking reflects exceptionally high financial and/or operational risk, exceptionally low predictability of financial results, and exceptionally high stock volatility. The Director of Research and the Supervisory Analyst jointly make the final determination of the Speculative risk ranking.

### Scotiabank, Global Banking and Markets Equity Research Ratings Distribution\*

#### Distribution by Ratings and Equity and Equity-Related Financings\*



\* As of November 30, 2020.

Source: Scotiabank GBM.

- Percentage of companies covered by Scotiabank, Global Banking and Markets Equity Research within each rating category.
- Percentage of companies within each rating category for which Scotiabank, Global Banking and Markets has undertaken an underwriting liability or has provided advice for a fee within the last 12 months.

For the purposes of the ratings distribution disclosure FINRA requires members who use a ratings system with terms different than “buy,” “hold/neutral” and “sell,” to equate their own ratings into these categories. Our Sector Outperform, Sector Perform, and Sector Underperform ratings are based on the criteria above, but for this purpose could be equated to buy, neutral and sell ratings, respectively.

## General Disclosures

This document is for distribution only as may be permitted by law. It is not directed to, or intended for distribution to or use by, any person or entity who 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 or would subject Scotiabank to any registration or licensing requirement within such jurisdiction. It is published solely for information purposes; it is not an advertisement nor is it a solicitation or an offer to buy or sell any financial instruments or to participate in any particular trading strategy.

No representation or warranty, either express or implied, is provided in relation to the accuracy, completeness or reliability of the information contained in this document except with respect to information concerning Bank of Nova Scotia (TSX: BNS; NYSE: BNS). This document is not intended to be a complete statement or summary of the securities, markets or developments referred to in this document. Scotiabank does not undertake to update or keep current the information contained herein, nor make any commitment as to the frequency of publication.

If you are affected by MiFID II, you must advise us in writing at [trade.supervision@scotiabank.com](mailto:trade.supervision@scotiabank.com).

Any opinions expressed in this document may change without notice and may differ or be contrary to opinions expressed by other business areas or groups of Scotiabank. Any statements contained in this document attributed to a third party represent Scotiabank's interpretation of the data, information and/or opinions provided by that third party either publicly or through a subscription service, and such use and interpretation have not been reviewed by the third party. Nothing in this document constitutes a representation that any investment strategy or recommendation is suitable or appropriate to an investor's individual circumstances or otherwise constitutes a personal recommendation. Investments involve risks, and investors should exercise prudence and their own independent judgement in making their investment decisions and carefully consider any risks involved.

The financial instruments that may be described in this document may not be eligible for sale in all jurisdictions or to certain categories of investors. Instruments such as options, derivative products, and futures are not suitable for all investors, and trading in these instruments is considered risky. Mortgage and asset-backed securities may involve a high degree of risk and may be highly volatile in response to fluctuations in interest rates or other market conditions. Foreign currency rates of exchange may adversely affect the value, price, or income of any security or related instrument referred to in this document. For investment advice, trade execution, or other enquiries, clients should contact their local sales representative. The value of any investment or income may go down as well as up, and investors may not get back the full amount invested. Past performance is not necessarily a guide to future performance.

To the full extent permitted by law, neither Scotiabank nor any of its directors, employees or agents accepts any liability whatsoever for any direct or consequential loss arising from any use of the information or this document. Nothing in this document constitutes financial, investment, tax, accounting or legal advice. Investors should seek their own legal, financial and tax advice regarding the appropriateness of investing in any securities or pursuing any strategies discussed in the document. Any prices stated in this document are for information purposes only and do not represent real-time valuations for individual securities or other financial instruments. There is no representation that any transaction can or could have been effected at those prices, and any prices do not necessarily reflect Scotiabank's internal books and records or theoretical model-based valuations and may be based on certain assumptions. Different assumptions by Scotiabank or any other source may yield substantially different results. All pricing of securities in reports is based on the closing price of the securities' principal marketplace on the night before the publication date, unless otherwise explicitly stated.

The Research Analyst(s) responsible for the preparation of this document may interact with trading desk personnel, sales personnel and other parties for the purpose of gathering, applying and interpreting market information.

In the normal course of offering investment and banking products and services to clients, Scotiabank may act in several capacities (including issuer, market maker, underwriter, distributor, index sponsor, swap counterparty, and calculation agent) simultaneously with respect to a product, giving rise to potential conflicts of interest. Scotiabank uses controls such as information barriers to manage conflicts should they arise. Scotiabank and its affiliates, officers, directors, and employees may have long or short positions (including hedging and trading positions), trade as principal and buy and sell in instruments or derivatives identified herein; such transactions or positions may be inconsistent with the opinions expressed in this document.

Recipients of this document should expect that Scotiabank will from time to time perform services (including investment banking or capital market services) in connection with the services and activities described in this document and that they may perform services for and engage in transactions with other market participants, including the issuers of certain of the investments underlying the transactions herein.

The information in this document has been prepared without taking into account any investor's objectives, financial situation or needs, and investors should, before acting on the information, conduct independent due diligence when making an investment decision and consider the appropriateness of the information, having regard to their objectives, financial situation and needs. For further information, please contact your sales representative.

Scotiabank specifically prohibits the redistribution of this document in whole or in part without Scotiabank's prior written permission, and Scotiabank accepts no liability whatsoever for the actions of third parties in this respect. Images may depict objects or elements that are protected by third-party copyright, trademarks and other intellectual property rights.

Equity research reports published by Scotiabank are initially and simultaneously made available electronically to intended recipients through its proprietary research website, ScotiaView, e-mail, and through third-party aggregators. The mediums in which research is disseminated to clients may vary depending on client preference as to the frequency and manner of receiving research reports. Institutional clients with questions regarding distribution of equity research or who wish to access the proprietary model used to produce this report should contact Scotiabank at 1-800-208-7666.

As of April 29, 2020, in line with U.S. market practice and in compliance with all applicable regulatory requirements, Scotiabank, Global Banking and Markets discontinued its policy application of IROC Rule 3400 (13), the site visit disclosure requirement, for Analysts employed by Scotia Capital (USA) Inc., its U.S. affiliate.

A list of all investment recommendations in an equity security or issuer that have been disseminated during the preceding 12 months is available at the following location: [gbm.scotiabank.com/disclosures](http://gbm.scotiabank.com/disclosures).

## Additional Disclosures

**Australia:** This report is provided in Australia by the Bank of Nova Scotia, an APRA-regulated Authorised Deposit-Taking Institution (Foreign Bank ADI) holding an Australian Financial Services License (AFSL).

**Canada:** Distributed to eligible Canadian persons by Scotia Capital Inc., a registered investment dealer in Canada.

**Chile:** This report is distributed by Scotia Corredora de Bolsa Chile Limitada, a subsidiary of The Bank of Nova Scotia.

**Colombia:** This report is distributed in Colombia by Scotiabank Colpatría, S.A. as authorized by the Superintendencia Financiera de Colombia to The Bank of Nova Scotia ("Scotiabank"). Scotiabank and Scotia Capital Inc. promote and advertise their products and services through Scotiabank Colpatría, S.A. This document does not contain any type of investment advice nor does it aim to provide advice. This report is prepared by analysts employed by The Bank of Nova Scotia and certain of its affiliates, including Scotia Capital Inc.

**Hong Kong:** This report is distributed by The Bank of Nova Scotia Hong Kong Branch, which is authorized by the Securities and Future Commission to conduct Type 1, Type 4 and Type 6 regulated activities and regulated by the Hong Kong Monetary Authority.

**Japan:** This research report is provided for information purposes only and it is not intended to solicit any orders for securities transactions or commodities futures contracts. While we believe that the data and information contained in this research report are obtained from reliable sources, we do not guarantee the accuracy or completeness of the data and information.

**Mexico:** The information contained in this report is for informational purposes only and is not intended to influence the decision of the addressee in any way whatsoever with respect to an investment in a certain type of security, financial instrument, commodity, futures contract, issuer, or market, and is not to be construed as an offer to sell or a solicitation of an offer to buy any securities or commodities futures contracts. Scotia Inverlat Casa de Bolsa, S.A. de C.V., Grupo Financiero Scotiabank Inverlat, is not responsible for the outcome of any investment performed based on the contents of this research report.

**Peru:** This report is distributed by Scotia Sociedad Agente de Bolsa S.A., a subsidiary of The Bank of Nova Scotia. This report is prepared by analysts employed by The Bank of Nova Scotia and certain of its affiliates, including Scotia Capital Inc.

**Singapore:** For investors in the Republic of Singapore, this document is provided via an arrangement with BNS Asia Limited pursuant to Regulation 32C of the Financial Advisers Regulations. The material contained in this document is intended solely for accredited, expert or institutional investors, as defined under the Securities and Futures Act (Chapter 289 of Singapore). If there are any matters arising from, or in connection with this material, please contact BNS Asia Limited, located at 1 Raffles Quay, #20-01 North Tower, One Raffles Quay, Singapore 048583, telephone: +65 6305 8388.

This document is intended for general circulation only and any recommendation that may be contained in this document concerning an investment product does not take into account the specific investment objectives, financial situation, or particular needs of any particular person, and advice should be sought from a financial adviser based in Singapore regarding the suitability of the investment product, taking into account the specific investment objectives, financial situation, or particular needs of any person in receipt of the recommendation, before the person makes a commitment to purchase the investment product.

BNS Asia Limited and/or its affiliates may have in the past done business with or may currently be doing or seeking to do business with the companies or issuers covered in this report. The information provided or to be provided or actions taken by or to be taken by BNS Asia Limited and/or its affiliates in such circumstances may be different from or contrary to the discussion set out in this report.

**United Kingdom and the rest of Europe:** Except as otherwise specified herein, this material is distributed by Scotiabank Europe plc to persons who are eligible counterparties or professional clients. Scotiabank Europe plc is authorized by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority.

**United States:** United States: Distributed to U.S. persons by Scotia Capital (USA) Inc. or by an authorized subsidiary or affiliate of The Bank of Nova Scotia that is not registered as a U.S. broker-dealer (a 'non-U.S. affiliate') to major U.S. institutional investors only. Scotia Capital (USA) Inc. accepts responsibility for the content of a document prepared by its non-U.S. affiliate (s) when distributed to U.S. persons by Scotia Capital (USA) Inc. To the extent that a U.S. person wishes to transact in the securities mentioned in this



document through Scotiabank, such transactions must be effected through Scotia Capital (USA) Inc., and not through a non-U.S. affiliate. The information in this document has not been approved, disapproved, or recommended by the U.S. Securities and Exchange Commission ("SEC"), any state securities commission in the United States or any other U.S. or non-U.S. regulatory authority. None of these authorities has passed on or endorsed the merits or the accuracy or adequacy of this document. Any representation to the contrary is a criminal offense in the United States.

<sup>TM</sup> Trademark of The Bank of Nova Scotia. Used under license, where applicable. Scotiabank, together with "Global Banking and Markets," is a marketing name for the global corporate and investment banking and capital markets businesses of The Bank of Nova Scotia and certain of its affiliates in the countries where they operate, including Scotia Capital Inc., Scotia Capital (USA) Inc., Scotiabank Europe plc, Scotiabank (Ireland) Designated Activity Company, Scotiabank Inverlat S.A., Institución de Banca Múltiple, Grupo Financiero Scotiabank Inverlat, Scotia Inverlat Casa de Bolsa S.A. de C.V., Grupo Financiero Scotiabank Inverlat, Scotia Inverlat Derivados S.A. de C.V. – all members of the Scotiabank Group and authorized users of the mark. The Bank of Nova Scotia is incorporated in Canada with limited liability. Scotia Capital Inc. is a member of the Canadian Investor Protection Fund and regulated by the Investment Industry Regulatory Organization of Canada. Scotia Capital (USA) Inc. is a broker-dealer registered with the SEC and is a member of FINRA, NYSE, NFA and SIPC. Scotiabank Europe plc is authorized by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. Scotiabank Inverlat, S.A., Institución de Banca Múltiple, Grupo Financiero Scotiabank Inverlat, Scotia Inverlat Casa de Bolsa, S.A. de C.V., Grupo Financiero Scotiabank Inverlat, and Scotia Inverlat Derivados, S.A. de C.V., are each authorized and regulated by the Mexican financial authorities.

© The Bank of Nova Scotia 2020

This report and all the information, opinions, and conclusions contained in it are protected by copyright. This report may not be reproduced in whole or in part, or referred to in any manner whatsoever, nor may the information, opinions, and conclusions contained in it be referred to without the prior, express consent of Scotiabank, Global Banking and Markets. The Bank of Nova Scotia, Scotiabank, and Global Banking and Markets logo and names are among the registered and unregistered trademarks of The Bank of Nova Scotia. All rights reserved.