MARCH 4, 2024

FOR THE WEEK ENDING MARCH 1, 2024

40 **ETF Providers** (+5% YoY)

1371 **ETFs** (+14% YoY) \$445 **CAD AUM** (+25% YoY)

\$17.1 **Traded** (Last Week)

WEEKLY CREATIONS/REDEMPTIONS BY ASSET CLASSES

Equity (+C\$1,033M) and fixed income (+C\$676M) ETFs led inflows last week

	\$ Traded	Short Int	AUM	Net C/R	Ne	t C/R (% AUM)
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
Equity	8,974.7	1.0%	284,809	1,032.9	0.4%	1.9%	10.9%
Fixed Income	2,649.0	0.3%	102,980	676.2	0.7%	1.8%	20.8%
Mixed Allocation	329.2	0.1%	16,536	138.0	0.8%	2.9%	21.0%
Preferreds	92.0	1.2%	6,158	-15.5	-0.3%	-0.4%	-5.5%
Commodity	809.1	1.1%	2,600	-21.3	-0.8%	0.6%	-4.9%
Specialty/Alternative	78.6	3.8%	3,038	-25.7	-0.8%	-0.6%	3.2%
Cryptocurrency	1,144.5	0.6%	6,398	-42.4	-0.8%	-2.6%	17.6%
Cash	3,066.6	0.3%	22,622	-200.3	-0.9%	-1.7%	28.9%
Total	17,143.7	0.7%	445,142	1,541.8	0.4%	1.6%	14.1%

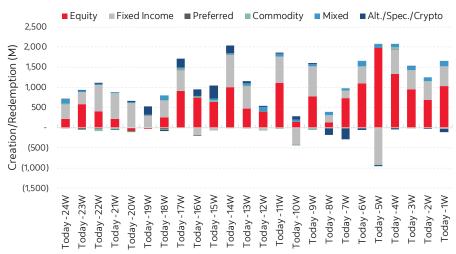
WEEKLY LARGEST CREATIONS/REDEMPTIONS

Investors poured into US equities and Cdn credit (SITU, QCB); while Cdn banks, Cdn short-term bonds, and cash were sold (ZEB, VSB, CSAV)

Ticker	Name	Returns (1-Week)	Short Int (% of SO)	\$ Traded (CAD M)	Net C/R (CAD M)	Net C/R (% of AUM)
SITU	Scotia US Equity Index Tracker ETF	1.6%	0.0%	645.3	636.4	81.2%
QCB	Mackenzie Canadian All Corporate Bc	0.2%	0.0%	174.7	171.6	40.3%
XIC	iShares Core S&P/TSX Capped Comp	0.8%	3.1%	320.1	143.8	1.3%
VFV	Vanguard S&P 500 Index ETF	1.4%	0.1%	396.0	130.9	1.1%
XBB	iShares Core Canadian Universe Bond	0.3%	0.4%	190.7	104.5	1.6%
XSP	iShares Core S&P 500 Index ETF CAD	1.0%	0.1%	207.7	70.7	0.7%
MCSM	Manulife Multifactor Canadian Smid (1.8%	0.0%	59.4	59.8	32.0%
ZEB	BMO Equal Weight Banks Index ETF	0.5%	8.0%	1,232.6	-594.2	-14.4%
CSAV	CI High Interest Savings ETF	0.1%	0.0%	198.0	-115.1	-1.4%
VSB	Vanguard Canadian Short-Term Bon	0.3%	0.1%	110.4	-97.2	-8.7%
XIU	iShares S&P/TSX 60 Index ETF	0.5%	8.1%	882.6	-64.8	-0.5%
BTCC/B	Purpose Bitcoin ETF	23.9%	0.5%	238.4	-50.2	-4.6%
PSA	Purpose High Interest Savings Fund	0.1%	0.1%	790.1	-50.1	-1.3%
XEG	iShares S&P/TSX Capped Energy Ind€	5.4%	12.3%	335.7	-48.0	-2.9%

HISTORICAL CREATIONS/REDEMPTIONS BY ASSET CLASS

Strong inflow streak continues for Cdn ETFs, despite \$200M cash-like outflows – \$9B has been added over past 6 weeks



LAST WEEK'S MOST ACTIVE ETFS

Investors traded C\$17.1B last week, led by Cdn banks, cash, and Cdn equities (ZEB, HISA, XIU)

Ticker	Name	Returns (1-Week)	Short Int (% of SO)	B/A Spread (bps)	\$ Traded (CAD M)	\$ Traded vs CR/RD
ZEB	BMO Equal Weight Banks Index ETF	0.5%	8.0%	1.7	1,232.6	2.1 x
HISA	High Interest Savings Account Fund	0.1%	0.0%	1.1	1,070.4	60.9 x
XIU	iShares S&P/TSX 60 Index ETF	0.5%	8.1%	1.4	882.6	13.6 x
PSA	Purpose High Interest Savings Fund	0.1%	0.1%	1.2	790.1	15.8 x
SITU	Scotia US Equity Index Tracker ETF	1.6%	0.0%	3.4	645.3	1.0 x
CASH	Horizons High Interest Savings ETF	0.1%	0.3%	1.1	584.8	21.2 x
VFV	Vanguard S&P 500 Index ETF	1.4%	0.1%	2.5	396.0	3.0 x
ZSP	BMO S&P 500 Index ETF	1.4%	3.0%	1.8	377.2	11.2 x
XEG	iShares S&P/TSX Capped Energy Ind€	5.4%	12.3%	1.5	335.7	7 x
XIC	iShares Core S&P/TSX Capped Comp	0.8%	3.1%	1.6	320.1	2.2 x
HND	BetaPro Natural Gas Inverse Le	-15.2%	8.4%	41.2	319.3	N/A
HNU	BetaPro Natural Gas Leveraged Daily	15.5%	3.7%	1.9	254.1	173.4 x
BTCC/B	Purpose Bitcoin ETF	23.9%	0.5%	1.7	238.4	4.7 x
XSP	iShares Core S&P 500 Index ETF CAD	1.0%	0.1%	1.6	207.7	2.9 x

EQUITY FUND FLOWS

Last Week's Net Creations/Redemptions by Strategy & Sector

Investors bought blend (C\$827M/+0.4%) and sold financials (-C\$564M/-3.7%)

	\$ Traded	Short Int	AUM	1-Week C/R	Ne	t C/R (% AUM)
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
Leverage/Inverse	210.9	0.0%	710	6.6	1.0%	-1.3%	-21.8%
Dividend/Income	471.9	0.2%	17,852	89.2	0.5%	4.7%	23.9%
Blend	7,149.6	1.4%	206,790	827.4	0.4%	2.2%	11.3%
Low Volatility	85.6	0.0%	6,078	24.0	0.4%	0.7%	7.3%
Multi-Factor	196.0	0.0%	2,304	7.5	0.3%	2.6%	6.8%
Value	113.1	0.2%	6,213	20.1	0.3%	0.4%	2.3%
ESG/SRI	41.9	0.0%	7,426	14.6	0.2%	1.1%	69.2%
Growth	735.6	0.2%	37,378	43.5	0.1%	-0.4%	0.1%
Momentum	0.4	0.0%	59	-	-	-	-14.2%
Total	9,005.0	1.0%	284,809	1,032.9	0.4%	1.9%	10.9%
Preferreds	92.0	1.2%	6,158	-15.5	-0.3%	-0.4%	-5.5%

	\$ Traded	Short Int	AUM	1-Week C/R	Ne	t C/R (% AUM)
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
Communications	3.0	0.9%	43	0.7	1.6%	13.9%	48.9%
Utilities	169.8	0.5%	2,947	30.9	1.0%	4.4%	23.6%
Industrials	2.1	0.1%	160	1.3	0.8%	2.1%	4.4%
Info Tech	111.6	0.1%	5,791	29.7	0.5%	2.7%	28.1%
Health Care	46.6	0.1%	3,567	12.0	0.3%	5.4%	10.7%
Thematic	137.5	0.1%	14,387	44.4	0.3%	1.2%	45.0%
Real Estate	99.8	1.1%	2,938	8.4	0.3%	-0.9%	-2.9%
Cons. Discretionary	-	0.1%	415	0.2	0.1%	3.6%	41.0%
Consumer Staples	14.8	0.2%	246	-1.2	-0.5%	-2.4%	-4.6%
Materials	185.8	0.6%	1,975	-26.7	-1.4%	0.3%	-6.5%
Energy	449.0	5.3%	3,946	-85.1	-2.2%	-4.4%	-13.4%
Financials	1,611.2	1.3%	14,662	-564.0	-3.7%	-2.0%	19.3%
Sector Subtotal	2,831.0	1.0%	51,077	-549.4	-0.2%	0.8%	9.8%

Last Week's Net Creations/Redemptions by Geography Investors sold Canada for a 2nd week in a row while heavily adding to the US

	\$ Traded	Short Int	AUM	1-Week C/R	Ne	t C/R (% AUM)
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
United States	3,012.6	0.4%	104,042	1,145.0	1.1%	3.2%	8.5%
EM Regional/Country	37.4	0.1%	3,913	13.6	0.3%	4.6%	266.0%
Global/International	1,316.4	0.3%	69,321	176.2	0.3%	2.5%	13.0%
DM Regional/Country	290.2	0.1%	16,058	11.5	0.1%	0.7%	6.9%
Canada	4,318.1	2.1%	91,475	-313.5	-0.3%	0.2%	9.1%
Total	8,974.7	1.0%	284,809	1,032.9	0.4%	1.9%	10.9%

FIXED INCOME, CURRENCIES AND COMMODITIES FUND FLOWS

Last Week's Net Creations/Redemptions by Strategy & Term/Rating

Investors added to universe, credit, govies, IG-rated, long- & across the curve maturities

	\$ Traded	Short Int	AUM	1-Week C/R	N	Net C/R (% AUM)		
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year	
Corporate	538.1	0.5%	24,159	250.1	1.0%	2.3%	3.9%	
Target Date	37.2	0.4%	1,545	15.5	1.0%	5.5%	186.3%	
Government	661.7	0.2%	18,740	135.5	0.7%	1.0%	33.5%	
Aggregate	4317.7	0.2%	56,692	283.9	0.5%	0.8%	26.1%	
Inflation Protected	11.9	0.1%	701	1.4	0.2%	-3.8%	-19.1%	
Convertible	1.5	0.0%	144	-	-	0.4%	-9.8%	
Bank Loans	23.7	0.1%	1,000	-10.1	-1.0%	2.1%	-4.7%	
FI Subtotal	5,591.9	0.3%	102,980	676.2	0.7%	1.8%	20.8%	
Commodity	809.1	1.1%	2,600	-21.3	-0.8%	0.6%	-4.9%	
Cash/Currency	3066.6	0.3%	22,622	-200.3	-0.9%	-1.7%	28.9%	
FICC Total	9,467.6		128,203	454.6	0.4%			

	\$ Traded	Short Int	AUM	1-Week C/R	Ne	t C/R (% AUM))
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
IG BBB or higher	936.7	0.5%	41,805	444.3	1.1%	3.5%	21.3%
IG A or Higher	1643.4	0.1%	52,984	264.0	0.5%	0.5%	20.7%
High Yield	68.8	0.1%	8,192	-32.1	-0.4%	2.0%	19.0%
FI Total	2,649.0	0.3%	102,980	676.2	0.7%	1.8%	20.8%

	\$ Traded	Short Int	AUM	1-Week C/R	Ne	t C/R (% AUM)
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
Long-Term	292.0	0.1%	11,425	124.9	1.1%	3.7%	62.4%
Mixed	990.9	0.4%	55,174	540.7	1.0%	1.6%	22.2%
Ultra Short	740.5	0.5%	6,519	36.0	0.6%	5.8%	127.4%
Intermediate	239.0	0.1%	15,754	13.8	0.1%	0.0%	8.4%
Short-Term	386.6	0.1%	14,108	-39.1	-0.3%	1.1%	-10.4%
FI Total	2,649.0	0.3%	102,980	676.2	0.7%	1.8%	20.8%

Last Week's Net Commodity-Linked Creations/Redemptions

Commodities see largest outflows in 5 weeks

	\$ Traded	Short Int	AUM	1-Week C/R	Ne	t C/R (% AUM)
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
Natural Gas	575.6	3.6%	201	-0.0	-0.0%	18.5%	40.5%
Crude Oil	197.0	2.5%	175	-9.4	-5.2%	-7.7%	-26.3%
Energy Subtotal	772.6	3.3%	377	-9.4	-2.6%	5.8%	10.6%
Gold	22.8	0.1%	1,796	-8.3	-0.5%	-0.5%	-10.0%
Silver	13.1	0.2%	299	-3.6	-1.2%	-1.2%	-8.3%
Broad Based	0.5	0.1%	128	-	-	4.3%	22.2%
Commodity Total	809.1	1.1%	2,600	-21.3	-0.8%	0.6%	-4.9%

CRYPTOCURRENCY FUND FLOWS

Last Week's Net Creations/Redemptions by Strategy

\$165M worth of BTC ETFs sold over past month, as Ether attracts over \$50M

	\$ Traded	Short Int	AUM	1-Week C/R	N	et C/R (% AUM)
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
Ether	333.8	1.1%	1,742	47.0	3.3%	4.7%	19.6%
Multi-Crypto	3.8	0.6%	63	-0.4	-0.7%	-0.6%	-6.5%
Bitcoin	806.9	0.4%	4,593	-89.1	-2.3%	-5.1%	17.1%
Total	1,144.5	0.6%	6,398	-42.4	-0.8%	-2.6%	17.6%

Last Week's Net Creations/Redemptions by Provider

Crypto ETFs from Purpose and 3iQ saw the largest outflows (as % of AuM)

	# of Crypto	AUM	Market	Net C/R	Ne	t C/R (% AUM)
	ETFs	(CAD M)	Share	(CAD M)	1-Week	1-Month	1-Year
Purpose	13	3,207	50.1%	-78.0	-2.9%	-8.0%	28.4%
CIETFs	6	2,118	33.1%	13.7	0.8%	0.7%	38.5%
Fidelity	3	394	6.2%	12.2	4.0%	18.3%	302.1%
Evolve	6	338	5.3%	10.7	4.0%	9.2%	-1.5%
3iQ	2	324	5.1%	-3.1	-1.2%	-1.9%	-66.6%
Horizons	1	17	0.3%	2.0	10.9%	14.1%	10.2%
Total	31	6,398	100.0%	-42.4	-0.8%	-2.6%	17.6%

ACTIVE STRATEGIES FUND FLOWS

Last Week's Net Creations/Redemptions by Strategy

Proprietary & smart beta active strategies remain unfavoured

	\$ Traded	Short Int	AUM	1-Week C/R	Net C/R (% AUM))
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
Factor/Multi-Factor	250.6	0.2%	7,564	78.2	1.1%	4.7%	15.6%
Mixed Allocation	302.5	0.2%	15,147	110.1	0.7%	3.0%	21.9%
True Active	1,996.3	0.1%	79,081	338.8	0.4%	2.7%	20.5%
Dividend/Income	377.1	0.2%	11,526	43.8	0.4%	1.9%	26.7%
Smart Beta	6.1	0.0%	655	-3.8	-0.6%	-4.2%	-51.3%
Proprietary	81.0	0.1%	2,737	-49.4	-1.8%	-4.2%	-17.8%
Total	3,013.6	0.1%	116,710	517.8	0.4%	2.5%	15.4%

Last Week's Net Creations/Redemptions by Asset Class

Within active, equity and mixed allocation ETFs were broadly bought

	\$ Traded	Short Int	AUM	Net C/R	Ne	Net C/R (% AUM)		
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year	
Mixed Allocation	328.8	0.1%	16,516	138.0	0.9%	2.9%	21.2%	
Equity	1,415.3	0.1%	60,796	260.1	0.4%	2.4%	14.4%	
Fixed Income	1,070.6	0.2%	35,376	135.6	0.4%	3.0%	26.6%	
Commodity	2.0	0.1%	190	-	-	3.4%	6.9%	
Specialty/Alternative	196.9	0.2%	3,831	-15.9	-0.4%	0.6%	7.8%	
Total	3,013.6	0.1%	116,710	517.8	0.4%	2.5%	15.4%	

ESG-FOCUSED FUND FLOWS

Last Week's Net Creations/Redemptions by ESG Attribute

For a change, various ESG ETFs saw activity driven by mix of retail and institutional

	\$ Traded	Short Int	AUM	1-Week C/R	Ne)	
	(CAD M)	(% of SO)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
Socially Responsible	26.6	0.1%	1,381	6.1	0.5%	2.1%	9.0%
Broad ESG	93.5	0.1%	14,138	41.3	0.3%	2.6%	60.9%
Clean Energy	8.2	0.1%	110	0.2	0.1%	-0.4%	-9.1%
Env. Friendly	8.1	0.1%	1,475	1.6	0.1%	0.5%	-2.6%
Climate Change	2.3	0.1%	129	-	-	-	-11.0%
Total	138.7	0.1%	17,234	49.3	0.3%	1.0%	9.4%

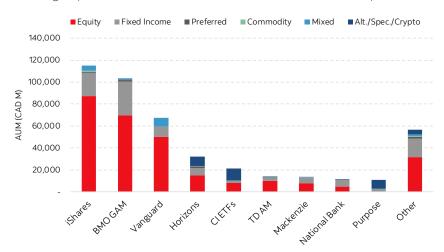
PROVIDER MARKET SHARE

New AUM record: 40 Providers have total AuM of C\$445B (+25% YoY)

	# of	AUM	Market	Net C/R (% AUM)		
Providers	ETFs	(CAD M)	Share	1-Week	1-Month	1-Year
iShares	161	115,271	25.9%	0.4%	1.4%	11.1%
BMO GAM	189	102,735	23.1%	-0.3%	0.6%	5.1%
Vanguard	37	67,590	15.2%	0.4%	2.2%	13.5%
Horizons	122	31,942	7.2%	0.0%	0.1%	23.0%
CIETFs	139	21,427	4.8%	-0.4%	-2.0%	9.5%
TD AM	48	13,636	3.1%	1.1%	4.1%	30.1%
Mackenzie	53	13,596	3.1%	1.4%	2.3%	0.8%
National Bank	15	11,477	2.6%	0.0%	2.4%	48.6%
Purpose	71	10,750	2.4%	-0.9%	-1.7%	25.4%
Fidelity	50	7,536	1.7%	3.4%	14.4%	85.3%
RBC GAM	49	6,604	1.5%	0.5%	2.8%	55.5%
Invesco	59	6,070	1.4%	0.3%	2.8%	20.6%
1832 Asset Management	30	5,301	1.2%	13.8%	18.7%	33.9%
Hamilton Capital	20	4,493	1.0%	1.0%	13.9%	100.3%
Other (26)	328	26,713	6.0%	0.1%	0.7%	11.5%
Total	1,371	445,142	100.0%	0.3%	1.6%	14.1%

ASSET MIX BY PROVIDER

The five largest providers account for 76% of the ETF Canadian landscape



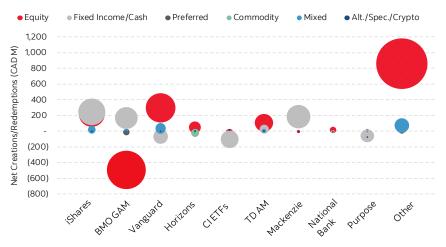
LAST WEEK'S LARGEST NET CREATIONS/REDEMPTIONS BY PROVIDER

1832 Asset Management and Fidelity gathered the most assets (as % AUM) last week

	Average Fund Size	AUM	Net C/R	Net C/R (% AUM)		
Providers	(CAD M)	(CAD M)	(CAD M)	1-Week	1-Month	1-Year
1832 Asset Management	176.7	5,300.5	634.6	13.8%	18.7%	33.9%
Fidelity	150.7	7,536.1	244.0	3.4%	14.4%	85.3%
Tralucent ETFs	4.2	4.2	0.1	2.5%	17.6%	N/A
Mackenzie	256.5	13,595.9	181.8	1.4%	2.3%	0.8%
TD AM	284.1	13,635.9	143.8	1.1%	4.1%	30.1%
Hamilton Capital	224.7	4,493.1	42.7	1.0%	13.9%	100.3%
CIBC AM	112.1	3,026.8	23.1	0.8%	3.2%	12.2%
Mulvihill	32.7	98.2	0.7	0.7%	3.1%	37.9%
AGF Investments	69.9	1,049.2	-30.5	-2.8%	-4.4%	-16.4%
IA Clarington	14.5	116.0	-2.8	-2.4%	1.0%	3.4%
Ninepoint	99.1	1,089.9	-13.5	-1.2%	-2.1%	-15.5%
Russell Investments	23.8	71.4	-0.9	-1.2%	-1.2%	34.6%
3iQ	161.8	323.7	-3.1	-1.2%	-1.9%	-66.6%
Purpose	151.4	10,750.4	-129.2	-0.9%	-1.7%	25.4%
CI ETFs	154.2	21,427.4	-108.4	-0.4%	-2.0%	9.5%
BMO GAM	543.6	102,735.1	-334.8	-0.3%	0.6%	5.1%

WEEKLY CREATIONS/REDEMPTIONS BY ASSET CLASS

SITU creation drives activity in issuers outside top 10, while ZEB makes BMO GAM bleed



Contacts

Alex Perel, CFA

MD & Head of ETF services 416.862.3158 Scotia Capital Inc. Canada alex.perel@scotiabank.com

Jean-Francois Boilard. CFA

Associate Director, ETF Services 416.863.7295 Scotia Capital Inc. Canada jean-francois.boilard@scotiabank.com

Daniela Fajardo, MBA

Associate Director, ETF Services 416.860.1023 Scotia Capital Inc. Canada daniela.fajardogarcia@scotiabank.com

Danielle Tygesen

Analyst, ETF Services 416.863.5902 Scotia Capital Inc. Canada danielle.tygesen@scotiabank.com

Morley Conn, CFA

Director, ETF Services 416.863.7882 Scotia Capital Inc. Canada morley.conn@scotiabank.com

© The Bank of Nova Scotia 2023

To unsubscribe from this specific note/publication, email etfcommentary@scotiabank.com

TM 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., Scotia Capital Inc. Scotia Capital C

This publication is not a research report and is considered a marketing communication only. Consequently this commentary is not governed by rules applicable to the publication and distribution of research reports, including relevant restrictions or disclosures required to be included in research reports and has not been prepared in accordance with EU legal requirements designed to promote the independence of investment research. This publication is not meant to provide information sufficient upon to base an investment decisions, or to replace any due to the independence of analytical work required by you in making investment decisions, or to replace any due to analytical work required by you in making investment decisions. The information contained in this publication is not subject to any prohibition in the EU on dealing a head of the dissemination of investment decisions. The information has been prepared and distribution in the EU on dealing a head of the dissemination of investment decisions, or to replace any due to any prohibition in the EU on dealing a head of the dissemination of investment decisions, or to replace any due to any prohibition in the EU on dealing a head of the dissemination of investment decisions, or to replace any due to any prohibition in the EU on dealing a head of the dissemination of investment decision, or to replace any due to any prohibition in the EU on dealing a head of the dissemination of presentation or between the dissemination or presentation or between the presentation or warranty, express or implied, is made as to their accuracy, completeness, or thermitions or prepared and distribution and statements contained herein are based on information taken from sources believed to be or other areas, units, divisions or affiliates of Scotia Capital Inc. Additionally, either the Institutional Equity Desk or other areas or divisions could trade in accordance with the views expressed or trade against these views. Any transactions by US Institutional Investors in any security mentio

Scotia Capital Inc., its directors, officers, employees, affiliates or clients may currently or from time to time own or hold interests in long or short positions in the securities referred to herein, and may at any time make purchases or sales of these securities as principal or agent. Scotia Capital Inc. or its affiliates may have provided or may provide investment banking, capital markets advice or other resvices to the companies referred to in this communication. This email should not be construed as investment advice or as an offer to sell or a solicitation of an offer to buy any securities or other financial instruments. Neither Scotia Capital Inc. nor any of its officers, directors, partners, employees or affiliates accepts any liability for any direct or consequential loss arising from this publication or its contents. Scotia Capital Inc. recommends that investors independently evaluate each issuer and security discussed in this publication, and consult with any advisors they deem necessary prior to making any investment.

If you are subject to the prohibition on third-party benefits in relation to portfolio management and independent investment advice under MiFID II (Directive 2014/65/EU and the accompanying Regulation (EU) No 600/2014) or the UK Markets in Financial Instruments (Amendment)(EU Exit) Regulations 2018, each as amended from time to time, and should not have received this communication, please advise us in writing at trade.supervision@scotiabank.com

Redistribution or onward forwarding of this email is strictly prohibited. If you believe that this email was sent to you in error, please forward a message to that effect as soon as practicable to trade_supervision@scotiabank.com

The information is not advice, a recommendation, or an offer. The information provided herein is intended for general circulation and does not take into account specific investment objectives, financial circumstances or the particular needs of any recipient. It does not construe an offer or solicitation to buy or sell or subscribe for any security or financial instrument or investment product, or to enter into a transaction or participate in any particular trading or investment strategy.

The information is not for Retail1; no assurances as to results. Trading in securities involves risks, including the risk of loss. This document and the products and strategies described herein (collectively, the "Products") are intended for use only by sophisticated professional and institutional investors as may be defined in the respective jurisdictions. Investors should consult their financial, legal and tax advisors and determine that the Products are suitable for their risk tolerance and investment objectives prior to engaging in any activity related to the Products. Scotiabank cannot provide any assurances that the Products will achieve their intended results or that the Products will outperform other similar products or strategies. While this document describes how the Products are intended to work under normal market conditions, the actual performance of the Products may not achieve their intended results, particularly during periods of unusually high volatility, unusually low liquidity and/or other extraordinary market conditions. Nothing in this document should be construed as tax or investment advice and no description of the Products-related transactions. If there are any matters arising from, or in connection with the materials, investors should contact their Scotiabank representative to seek further clarification.

1GBM&T does not deal with retail clients.

