## **TD Securities**



Global Rates, FX & Commodities Strategy



23 November 2022

ENERGY & METALS

**▶** COMMODITIES

**▶ GLOBAL MARKETS** 

## **Advanced CTA Position Tracker**

- The set-up is forming for a bull trap in commodities markets. A slew of narratives ranging from an imminent reopening in China to peak central bank hawkishness has catalyzed a substantial short-covering rally across global assets, exacerbated by CTA trend following flow. However, we see now see signs of buying exhaustion from this cohort across US and Canadian bonds and major currencies, given a large margin of safety before additional purchases are catalyzed. This is building towards a set-up for another round of price weakness in commodities as CTAs accumulate selling dry-powder.
- Positioning risks in **gold** markets are still skewed to the upside, as a minor extension in prices could translate into notable CTA buying activity. This would be an appealing set-up for precious metals bears looking to fade the rally, but signs of CTA buying exhaustion across rates and currency markets suggest the likelihood of this scenario is fading. Considering the <u>latest Commitment of Traders report</u> also highlighted a rise in money manager longs, the rally in gold prices appears to have attracted discretionary money manager length which adds vulnerability to a consolidation lower in prices.
- Positioning risks in platinum are already extremely skewed to the downside.
   Peak short covering from CTA trend followers in platinum suggests that the rally in platinum markets is vulnerable to a consolidation lower.
- Similarly, positioning risks are still <u>extremely skewed to the downside</u> in <u>copper</u>
  as the margin of safety against subsequent buying programs is elevated. This
  skew in positioning risks continues to support a consolidation lower in prices.
- In the energy complex, WTI crude prices are being weighed down by marginal selling from CTA trend followers as reports suggesting that the oil price cap will be watered down weigh on sentiment.

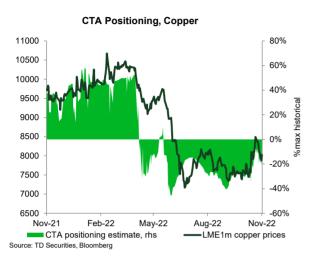
Read more about CTAs here.

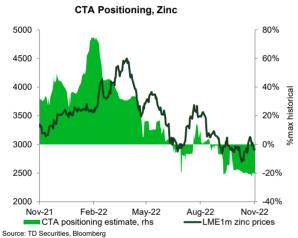
**Daniel Ghali** Senior Commodity Strategist

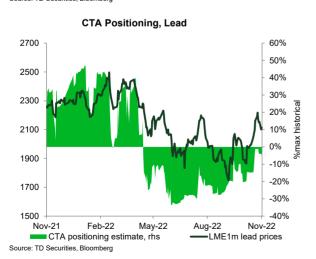
This report is a marketing communication. It has not been prepared in accordance with legal requirements, as outlined in the UK FCA's COBS and EU MiFID II, designed to promote the independence of investment research and is also not subject to any prohibition of dealing ahead of the dissemination of investment research, although as a matter of policy TD Securities requires its employees not to deal ahead of the dissemination of this report.

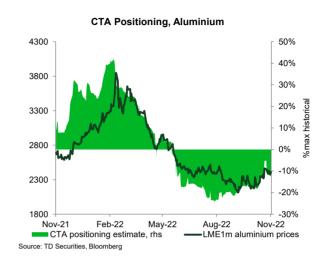
Ris Itm	k parity portfolio leverage	, and	1 1.8x 5	Model per	formance^, ltm	my	70%	85% 100%	Model CT/ returns, ltr		homomorphy
/ing/ lling	Market (Futures)		CTA Positioning <sup>a</sup>	Target	Signal S	trength <sup>b</sup>	Risk~	Nearest Upside Trigger*	Implied Position**	Nearest Downside Trigger*	Implied Position
	Gold	-13%		-12.7%	-26%		•	\$1,755	-9.8%	\$1,727	-15.7%
	Silver	-3%		-3.2%	-6% ⊏			\$21.69	-2.9%	\$19.98	-3.49
	Platinum		10%	12.1%		20%	•	\$1,018	13.1%	\$999	9.5%
_	Palladium	-14%		-10.3%	-19%		•	\$1,906	-7.3%	\$1,875	-11.8
	Copper	-7%		-7.0%	-11%			\$9,296	-5.6%	\$7,788	-11.8
•	Aluminium	-4%		-6.1%	-12%		•	\$2,679	-1.9%	\$2,419	-4.6%
	Zinc	-19%		-19.5%	-33%		•	\$2,931	-19.1%	\$2,866	-21.1
	Nickel		16%	15.7%		23%		\$27,863	15.5%	\$22,533	13.49
	Lead	-4%		-4.7%	-8%		•	\$2,113	-4.3%	\$2,061	-5.1%
,	WTI Crude	-3%		-7.0%	-13%		•	\$81.29	-4.6%	\$75.03	-7.69
	Brent Crude		2%	0.9%		<b>□</b> 1%	•	\$90.25	1.6%	\$86.21	-1.19
	Heating Oil		13%	13.4%		22%	•			\$3.3254	11.79
R	BOB Gasoline		15%	13.9%		23%	•	\$2.5695	14.4%	\$2.3193	13.69
Н	H Natural Gas		4%	3.9%		<b>7</b> %	•	\$7.64	5.2%	\$7.07	3.6%
	E-mini S&P	-4%		-3.5%	-7% □		•	\$4,138	-2.5%	\$3,976	-5.2%
	E-mini Nasdaq	-11%		-11.4%	-23%		•	\$11,958	-9.4%	\$11,556	-12.3
	S&PTSX60	-3%		-2.7%	-6% ⊏			\$1,247	-1.7%	\$1,197	-2.99
	EUR	-7%		-3.4%	-6% ⊏		•	\$1.0678	-2.9%	\$1.03	-5.0%
	CAD	-22%		-22.3%	-3 <b>4</b> %			\$76.20	-17.7%	\$73.47	-23.9
	GBP	-9%		-9.1%	-15%		•	\$119.66	-7.1%	\$116.42	-11.5
	AUD	-15%		-14.9%	-28%			\$68.06	-12.5%	\$65.35	-16.4
	JPY	-13%		-12.3%	-21%			\$72.87	-10.0%	\$70.07	-13.4
	Bund	-11%		-10.5%	-19%			\$145.54	-8.2%	\$137.91	-11.2
	T-note	-14%		-15.5%	-30%□		•	\$112.86	-14.6%	\$111.48	-16.0
	Long Gilt	-7%		-6.7%	-10%		•	\$107.93	-5.8%	\$97.17	-7.39
	CGB	-1%		-1.4%	-3% ⊑		•	\$128.25	-1.0%	\$125.36	-1.89

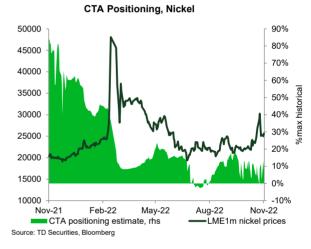
## **Positioning Chart Pack**

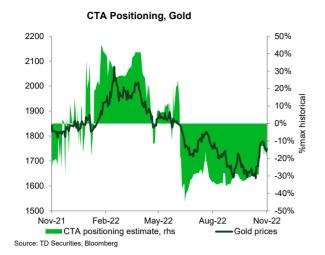


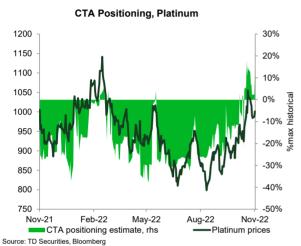


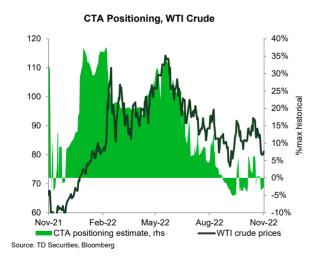




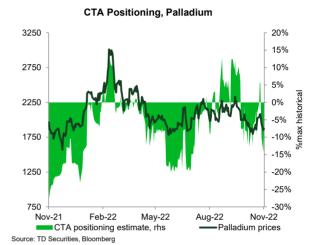


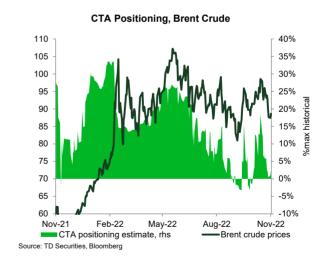


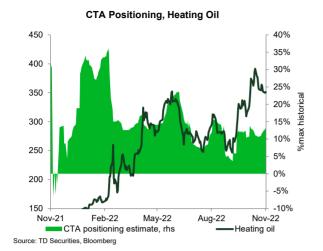




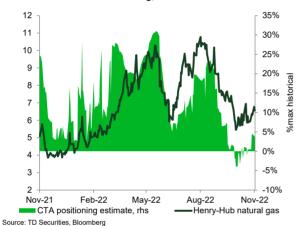




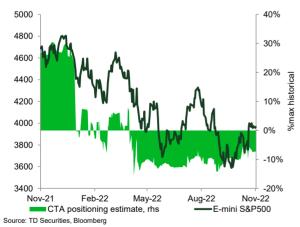




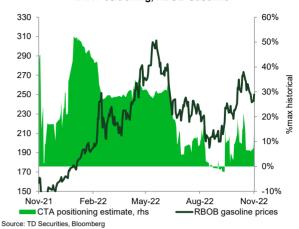




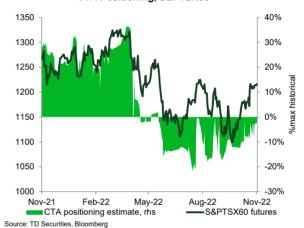
## CTA Positioning, E-mini S&P500



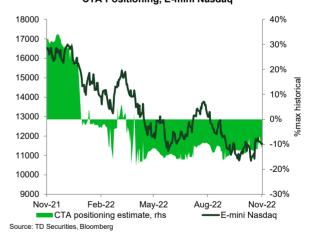
#### CTA Positioning, RBOB Gasoline



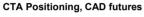
#### CTA Positioning, S&PTSX60

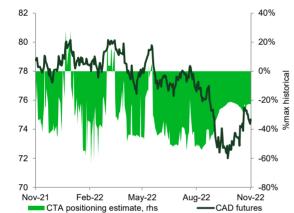


CTA Positioning, E-mini Nasdaq



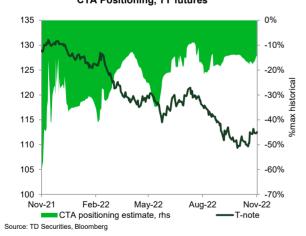




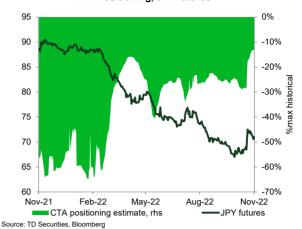


## **CTA Positioning, TY futures**

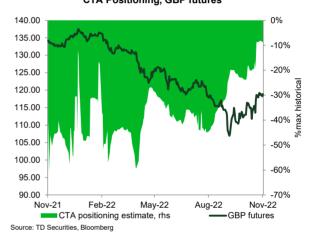
Source: TD Securities, Bloomberg



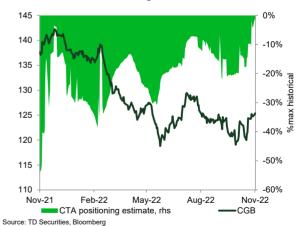
## CTA Positioning, JPY futures

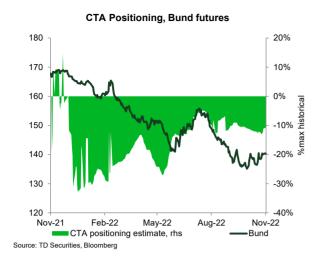


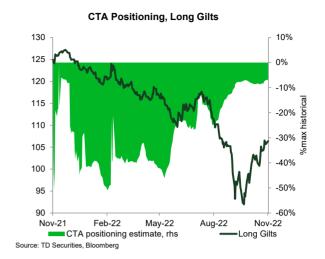
## CTA Positioning, GBP futures



## CTA Positioning, CGB







## **Commodities Model Portfolio**

		Open Model Ti	rades				
Trade	Entry Date	Entry	Stop	Current/notional	Target	P/L	
Short LME3m Copper	9-Aug-22	\$8,000.00	\$8,540.00	\$8,374.50	\$7,150	(\$234,063)	
Short active Silver	17-Aug-22	\$19.97	\$23.00	\$21.99	\$17	(\$191,425)	
Long/Short Zinc/Copper	15-Nov-22	\$3149/\$8374	(\$450,000.00)	\$3174.5/\$8420	\$800,000.00	\$4,538	
Long active Brent Crude *open model trades pnl as of	15-Nov-22 15/Nov/22	\$92.54	\$79.00	92.57	\$120	\$1,050	
		Closed Model 1	<b>Frades</b>				
Trade	Entry Date	Entry	Exit	Exit Date	Target	P/L	
Short active gold	29-Jul-22	\$1,773.30	\$1,720.00	10/4/2022	\$1,580	\$171,140	
Long Dec23 Brent Crude	22-Jun-22	\$88.91	\$88.43	7/29/2022	\$100	(\$13,440)	
Long LME1m Zinc	7-Jul-22	3142 (roll ajd.)	\$3,345	7/29/2022	\$3,320	\$227,913	
Long LME1m Aluminium	7-Jul-22	2437.33 (roll ajd.	\$2,468	7/29/2022	\$2,690	\$27,257	
Long Active Brent Crude	7-Jul-22	96.78 (roll adj.)	\$104	7/29/2022	\$115	\$118,720	
GCQ2 Jul22 1750/1600 bear put spread	8-Feb-22	(\$292,541)	(\$292,541)	6/27/2022	1.6m	(\$292,541)	
Short LME1m Copper	31-May-22	\$9,510	\$8,331	6/24/2022	\$8,050	\$589,500	
Long Dec23 Brent Crude	19/Apr/22	\$88.90	\$97.55	6/9/2022	\$100	\$250,850	
Copper Dec22 \$8500/\$9500 Bear Call Spread	16/Nov/21	\$860,000	\$733,513	5/13/2022	\$860,000	\$126,487	
Long Dec23 Brent crude	17-Mar-22	\$82.67	\$83.85	4/7/2022	\$100.00	\$96,330	
COQ2 \$100/90 bull put spread	28-Mar-22	\$251,138	\$356	4/7/2022	\$251,138	(\$11,762)	
Short Brent Crude Dec22-Dec23	15-Feb-22	\$5.62	\$8.18	3/1/2022	\$3.50	(\$435,200)	
Short LME aluminium Dec22-Dec23	8-Feb-22	\$248	\$220	2/28/2022	\$150	\$168,000	
Short gold active futures	27-Jan-22	\$1,821	\$1,871	2/14/2022	\$1,740	(\$400,000)	
Long LME 1m aluminium	10-Jan-22	\$2,930	\$3,092	1/31/2022	\$3,200	\$129,200	

816,000

1813/23.97

229.37/221.39

3.88

-306,000

\$2850/ \$18030

2713/9525.25

1,800

31/Aug/21

31/Aug/21

30/Sep/21

23/Nov/21

13/Oct/21

30/Sep/21

31/Aug/21

23/Jul/21

516,000

6%

5%

2.03

-561,310

-8%

14%

1,707

16/Nov/21

7/Dec/21

7/Dec/21

26/Nov/21

16/Nov/21

20/Oct/21

30/Sep/21

9/Aug/21

816.000

15%

20%

5.50

1,470,000

20%

20%

1,730

Short gold active futures Source: Bloomberg, TD Securities

Long/Short Gold/Silver

Long Brent Z2-Z3 Timespread

Long/Short Aluminium/Copper

Long/Short HO/XB

Copper Dec21 \$9000/\$8250 Bear Call Spread

Long \$1850/\$2000 GCJ2 gold call spread Long/Short Aluminium/Nickel

(\$300,000)

\$95,095

\$32,374

(\$232,500)

\$255,310

(\$177,500)

\$325,131

\$251,100

## **TD Securities**



## **Recent Publications**

Global Rates, FX & Commodities Strategy

Global Macro		
Region	Publication	Date
Weekly	Upcoming Week - The Big Three (21 Nov)	18 Nov
	Week Ahead: Canada Macro Market Movers  Week Ahead: US Macro Market Movers	21 Nov 21 Nov
Commentary	RBNZ: Shock and Orr	23 Nov
Commentary	UK Autumn Statement: Delaying the Tough Decisions	17 Nov
	October CPI Offers Ammunition for Both Hawks and Doves	16 Nov
	US CPI (Oct): Is the Fever Breaking?	10 Nov
US	MacroMetrics (November 2022)	17 Nov
	Wage Growth and Inflation Expectations: November Update	15 Nov
Canada	MacroMetrics (November 2022)	17 Nov
Europe	MacroMetrics (November 2022)	17 Nov
Asia-Pacific	MacroMetrics (November 2022)	17 Nov
Rates		
US	Weekly Fund Flows - US Leads Bond Inflows, Equity Inflows Ramp Up	18 Nov
	US IG: Inflation Surprise Triggers Tactical Shift	14 Nov
	Weekly Fund Flows - Buying Bonds/Credit But Selling Stocks/TIPS	11 Nov
Europe	Weekly Fund Flows - US Leads Bond Inflows, Equity Inflows Ramp Up	18 Nov
	Weekly Fund Flows - Buying Bonds/Credit But Selling Stocks/TIPS	11 Nov
Trades	Sonia Jun 23- Jun 24 Flatteners Enter 2s10s Bund Curve Steepeners	18 Nov 18 Nov
	CAD: Exit Front-end Bull Flattener Theme	17 Nov
	CAD: Exit 30y Swap Spread Tighteners	17 Nov
	Taking Profit on 10y Treasury Longs	17 Nov
FX		
Analysis	China Property – Long Road To Recovery	22 Nov
Trades	Stopped Out of Short EURUSD	11 Nov
EM		
Analysis	China Property – Long Road To Recovery	22 Nov
	Weekly Fund Flows - US Leads Bond Inflows, Equity Inflows Ramp Up	18 Nov
	Is China Reopening Disinflationary?	17 Nov
	Weekly Fund Flows - Buying Bonds/Credit But Selling Stocks/TIPS	11 Nov
Trades	2023 Global Outlook - Short INDIDB	15 Nov
0	2023 Global Outlook - Short INRIDR	15 Nov
Commodities		
Analysis	Sifting Through the Wreckage	14 Nov
Trades	2023 Global Outlook - Long Brent Crude	15 Nov

## **TD Securities**



# **Global Strategy**

Global Rates, FX & Commodities Strategy

Rich Kelly	Head of Global Strategy	richard.kelly@tdsecurities.com	44 (0)20 7786 8448
Global Macro			
James Rossiter Andrew Kelvin Jan Groen Oscar Munoz Robert Both Alex Loo Lucas Krishan Jacqui Douglas	Head of Global Macro Strategy Chief Canada Strategist Chief U.S. Macro Strategist Macro Strategist Macro Strategist Macro Strategist Analyst Global Editor	james.rossiter@tdsecurities.com andrew.kelvin@tdsecurities.com jan.groen@tdsecurities.com oscar.munoz@tdsecurities.com robert.both@tdsecurities.com alex.loo@tdsecurities.com lucas.krishan@tdsecurities.com jacqui.douglas@tdsecurities.com	44 (0)20 7786 8422 1 416 983 7184 1 212 827 7371 1 212 827 7405 1 416 983 0859 65 6500 8047 44(0)20 7786 8425 44 (0)20 7786 8439
Global Rates			
Priya Misra Andrew Kelvin Prashant Newnaha Gennadiy Goldberg Pooja Kumra Chris Whelan Vittorio Chiu	Head of Global Rates Strategy Chief Canada Strategist Senior Asia-Pacific Rates Strategist Senior US Rates Strategist Senior European & UK Rates Strategist Senior Canada Rates Strategist Canada Strategist	priya.misra@tdsecurities.com andrew.kelvin@tdsecurities.com prashant.newnaha@tdsecurities.com gennadiy.goldberg@tdsecurities.com pooja.kumra@tdsecurities.com chris.whelan@tdsecurities.com vittorio.chiu@tdsecurities.com	1 212 827 7156 1 416 983 7184 65 6500 8047 1 212 827 7180 44 (0)20 7786 8433 1 416 983 0445 416-982-3297
Portfolio			
Cristian Maggio Jose Gonzalez Izidor Flajsman	Head of Portfolio and ESG Strategy Senior Portfolio and ESG Strategist EM and Quant Strategist	cristian.maggio@tdsecurities.com jose.a.gonzalez@tdsecurities.com izidor.flajsman@tdsecurities.com	44 (0)20 7786 8436 44 (0) 20 7786 8424 44 (0)207 786 8414
FX Strategy			
Mark McCormick Mazen Issa Ray Ng	Global Head of FX Strategy Senior FX Strategist FX Quantitative Strategist	mark.mccormick@tdsecurities.com mazen.issa@tdsecurities.com ray.ng@tdsecurities.com	1 416 982 7784 1 212 827 7182 1 905 921 9659
EM Strategy			
Cristian Maggio Mitul Kotecha Joel Virgen Rojano Izidor Flajsman	Head of Portfolio and ESG Strategy Head of Emerging Markets Strategy Senior Latam Strategist EM and Quant Strategist	cristian.maggio@tdsecurities.com mitul.kotecha@tdsecurities.com joel.virgenrojano@tdsecurities.com izidor.flajsman@tdsecurities.com	44 (0)20 7786 8436 65 6500 8047 1 212 827 2746 44 (0)207 786 8414
Commodities			
Bart Melek Ryan McKay Daniel Ghali	Head of Commodity Strategy Commodity Strategist Senior Commodity Strategist	bart.melek@tdsecurities.com ryan.mckay@tdsecurities.com daniel.ghali@tdsecurities.com	1 416 983 9288 1 416 982 5816 1 416 983 8075

This material is for general informational purposes only and is not investment advice nor does it constitute an offer, recommendation or solicitation to buy or sell a particular financial instrument. It does not have regard to the specific investment objectives, financial situation, risk profile or the particular needs of any specific person who may receive this material. No representation is made that the information contained herein is accurate in all material respects, complete or up to date, nor that it has been independently verified by TD Securities. Recipients of this analysis or report are to contact the representative in their local jurisdiction with regards to any matters or questions arising from, or in connection with, the analysis or report. Historic information regarding performance is not indicative of future results and investors should understand that statements regarding future prospects may not be realized. All investments entail risk, including potential loss of principal invested. Performance analysis is based on certain assumptions, the results of which may vary significantly depending on the modelling inputs assumed. This material, including all opinions, estimates and other information, constitute TD Securities' judgment as of the date hereof and is subject to change without notice. The price, value of and income from any of the securities mentioned in this material can fall as well as rise. Any market valuations contained herein are indicative values as of the time and date indicated. Such market valuations are believed to be reliable, but TD Securities does not warrant their completeness or accuracy. Different prices and/or valuations may be available elsewhere and TD Securities suggests that valuations from other sources be obtained for comparison purposes. Any price or valuation constitutes TD Securities' judgment and is subject to change without notice. Actual quotations could differ subject to market conditions and other factors.

TD Securities disclaims any and all liability relating to the information herein, including without limitation any express or implied representations or warranties for, statements contained in, and omissions from, the information. TD Securities is not liable for any errors or omissions in such information or for any loss or damage suffered, directly or indirectly, from the use of this information. TD Securities may have effected or may effect transactions for its own account in the securities described herein. No proposed customer or counterparty relationship is intended or implied between TD Securities and a recipient of this document.

TD Securities makes no representation as to any tax, accounting, legal or regulatory issues. Investors should seek their own legal, financial and tax advice regarding the appropriateness of investing in any securities or pursuing any strategies discussed herein. Investors should also carefully consider any risks involved. Any transaction entered into is in reliance only upon the investor's judgment as to financial, suitability and risk criteria. TD Securities does not hold itself out to be an advisor in these circumstances, nor do any of its representatives have the authority to do so.

The information contained herein is not intended for distribution to, or use by, any person in any jurisdiction where such distribution or use would be contrary to applicable law or regulation or which would subject TD Securities to additional licensing or registration requirements. It may not be copied, reproduced, posted, transmitted or redistributed in any form without the prior written consent of TD Securities.

If you would like to unsubscribe from our email distribution lists at any time, please contact your TD Securities Sales Contact. If you are located in Europe, Asia, Australia or New Zealand you may also unsubscribe by emailing us at Privacy.EAP@tdsecurities.com.

For more information, refer to our Privacy Policy (https://www.tdsecurities.com/ca/en/privacy-security)

#### Australia

If you receive this document and you are domiciled in Australia, please note that this report is intended to be issued for general information purposes only and distributed through Toronto Dominion (South East Asia) Limited ("TDSEA"). TDSEA does not hold itself out to be providing financial advice in these circumstances. TD Securities is a trademark and represents certain investment dealing and advisory activities of Toronto-Dominion Bank and its subsidiaries, including TDSEA. The Toronto-Dominion Bank is not an authorized deposit-taking or financial services institution in Australia. TDSEA is a holder of an Australian Financial Services Licence (528885) and is regulated in Australia by the Australian Securities and Investments Commission.

## Canada

Canadian clients wishing to effect transactions in any security discussed herein should do so through a qualified salesperson of TD Securities or TD Securities Inc. TD Securities Inc. is a member of the Canadian Investor Protection Fund.

## China, India, and South Korea

Insofar as the document is received by any persons in the People's Republic of China ("PRC"), India and South Korea, it is intended only to be issued to persons who have the relevant qualifications to engage in the investment activity mentioned in this document. The recipient is responsible for obtaining all relevant government regulatory approvals/licenses themselves, and represents and warrants to The Toronto-Dominion Bank that the recipient's investments in those securities do not violate any law or regulation, including, but not limited to, any relevant foreign exchange regulations and/or overseas investment regulations. The Toronto-Dominion Bank has a representative office in Shanghai, Mumbai and Seoul which should be contacted for any general enquiry related to The Toronto-Dominion Bank or its business. However, neither any of the Toronto-Dominion Bank offshore branches/subsidiaries nor its representative offices are permitted to conduct business within the borders of the PRC, India and South Korea. In locations in Asia where the Bank does not hold licenses to conduct business in financial services, it is not our intention to, and the information contained in this document should not be construed as, conducting any regulated financial activity, including dealing in, or the provision of advice in relation to, any regulated instrument or product. This publication is for general information only, without addressing any particular needs of any individual or entity, and should not be relied upon without obtaining specific advice in the context of specific circumstances.

## Hong Kong SAR (China)

This document, which is intended to be issued in Hong Kong SAR (China) ("Hong Kong") only to Professional Investors within the meaning of the Securities and Futures Ordinance (the "SFO") and the Securities and Futures (Professional Investor) Rules made under the SFO, has been distributed through Toronto-Dominion Bank, Hong Kong Branch, which is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission.

### Japan

For Japanese residents, please note that if you have received this document from The Toronto-Dominion Bank entities based outside Japan, it is being provided to qualified financial institutions ("QFI") only under a relevant exemption to the Financial Instruments and Exchange Act.

If you have received this document from TD Securities (Japan) Co., Ltd., it is being provided only to institutional investors. TD Securities (Japan) Co., Ltd. is regulated by the Financial Services Agency of Japan and is distributing this document in Japan as a Type 1 Financial Instruments Business Operator registered with the Kanto Local Finance Bureau under registration number, Kinsho 2992, and a member of Japan Securities Dealers Association.

#### **New Zealand**

The Toronto-Dominion Bank is not a "registered bank" in New Zealand under the Reserve Bank Act 1989.

## **Singapore**

This report is distributed in Singapore by The Toronto-Dominion Bank, Singapore Branch, and recipients in Singapore of this report are to contact The Toronto-Dominion Bank, Singapore Branch in respect of any matters arising from, or in connection with, this report. The Toronto-Dominion Bank, Singapore Branch is regulated by the Monetary Authority of Singapore. Where this report is issued or promulgated in Singapore, it is only intended for distribution to a person who is an accredited investor, expert investor or institutional investor as defined in the Securities and Futures Act (Cap. 289), the Securities and Futures (Prescribed Specific Classes of Investors) Regulations 2005, or the Securities and Futures (Classes of Investors) Regulations 2018 issued by the Monetary Authority of Singapore.

## **United Kingdom and Europe**

This document is prepared, issued or approved for issuance in the UK, as applicable by TD Bank Europe Limited or The Toronto Dominion Bank, London Branch and in Europe by TD Global Finance unlimited company in respect of investment business. The Toronto-Dominion Bank is authorised by the Prudential Regulation Authority and subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. TD Global Finance unlimited company, trading as TD Securities, is regulated by the Central Bank of Ireland. Insofar as the document is issued in or to the United Kingdom, it is intended only to be issued to persons who (i) are persons falling within Article 19(5) ("Investment professional") of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended, the "Financial Promotion Order"), (ii) are persons falling within Article 49(2)(a) to (d) ("High net worth companies, unincorporated associations, etc.") of the Financial Promotion Order, or (iii) are persons to whom an invitation or inducement to engage in investment activity (within the meaning of section 21 of the Financial Services and Markets Act 2000) in connection with the issue or sale of any securities may otherwise lawfully be communicated or caused to be communicated. Insofar as the document is issued in or to the European Union, it is intended only to be issued to persons categorised as 'Per Se Professional' or 'Eligible Counterparties' as defined in S.I. No 375 of 2017, European Union (Markets in Financial Instruments) Regulations 2017, Schedule 2. Clients in the United Kingdom wishing to effect transactions in any security discussed herein should do so through a qualified salesperson of TD Securities Limited. European clients wishing to effect transactions in any security discussed herein should do so through a qualified salesperson of TD Global Finance unlimited company. Insofar as the information in this report is issued in (i) the UK, it has been issued with the prior approval of as applicable, TD Bank Europe Limited or The Toronto Dominion Bank, London Branch and (ii) in Europe, it has been issued with the prior approval of TD Global Finance unlimited company. Article 20 Market Abuse Regulation 596/2014 ("MAR") requires market participants who produce or disseminate Investment Recommendations or other information recommending or suggesting an investment strategy to take reasonable care that such information is objectively presented, and to disclose their interests or indicate conflicts of interest. In accordance with the MAR requirements, see the Investment Recommendations Disclaimer for relevant information in relation to The Toronto-Dominion Bank - London Branch, TD Bank Europe Limited, TD Securities Limited and TD Global Finance unlimited company.

#### **United States**

U.S. clients wishing to effect transactions in any security discussed herein must do so through a registered representative of TD Securities (USA) LLC.