

June 2022

Canada Market Structure Monthly

MARKET MICROSTRUCTURE OBSERVATIONS

- The average daily volume for TSX listed securities decreased in June 2022 by 6% MoM to 797M shares while up 11% YoY. Liquidity, spread and volatility conditions improved MoM reversing the recent trend which hit a 12-month low in May.
- For non-TSX listed securities, the average daily volume dropped to 292M shares to a new 12-month low. This represents a 13% decrease MoM and a 37% drop YoY. Non-listed TSX securities also experienced MoM deterioration in liquidity and spread conditions but an improvement in volatility conditions.
- TSX block volumes continued their recent decline whereas non-TSX block volumes and dark venue market share were both stable MoM.

CANADA MARKET STRUCTURE NEWS

Industry Opposition Leads to TSX Delaying Proposed Long-Life Order Type Changes

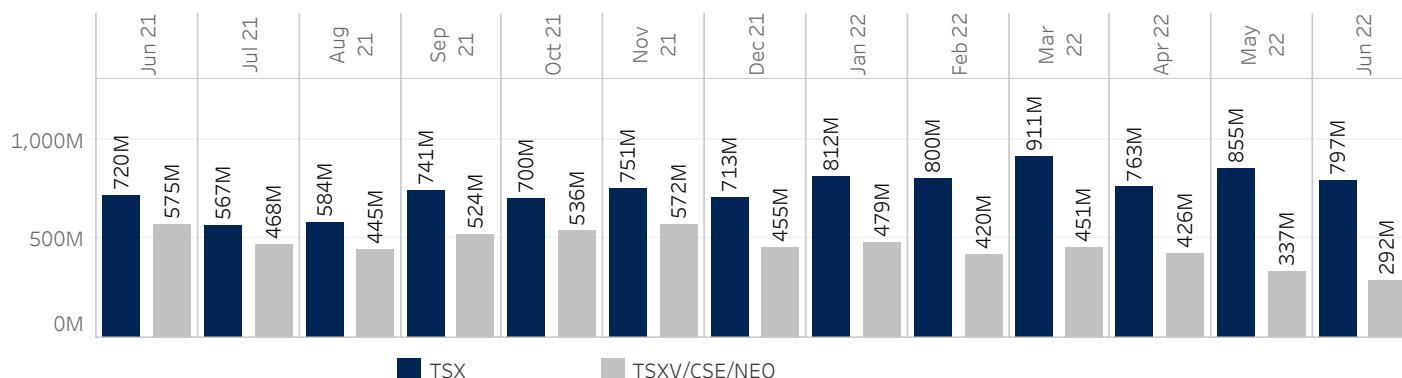
Last month we reported that the TSX had launched a request for comment relating to possible changes to the allocation priority for long-life orders. The proposed change would have given priority to faster price-setting orders at the expense of long-life orders committed to a minimum duration of one second. Due to strong industry opposition, TSX has opted to delay the proposal albeit temporarily. The TSX is expected to consult with participants before deciding how to proceed with order priority.

<https://www.tmx.com/newsroom/press-releases?id=352>

<https://www.osc.ca/en/industry/market-regulation/marketplaces/exchanges/recognized-exchanges/tmx-group-inc-and-tsx-inc-69>

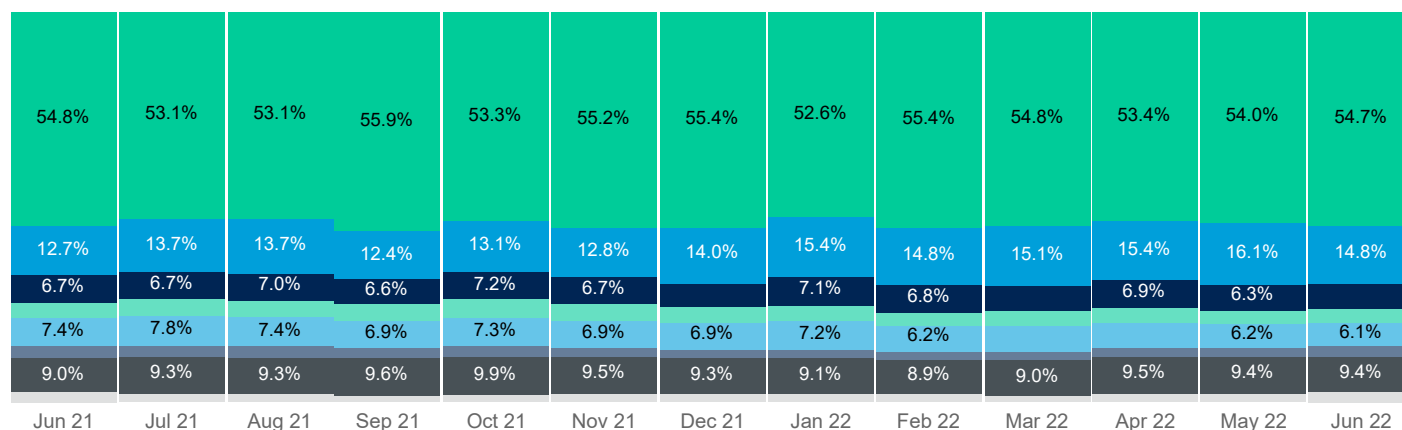


Average Daily Market Volume By Listing Exchange (Shares)

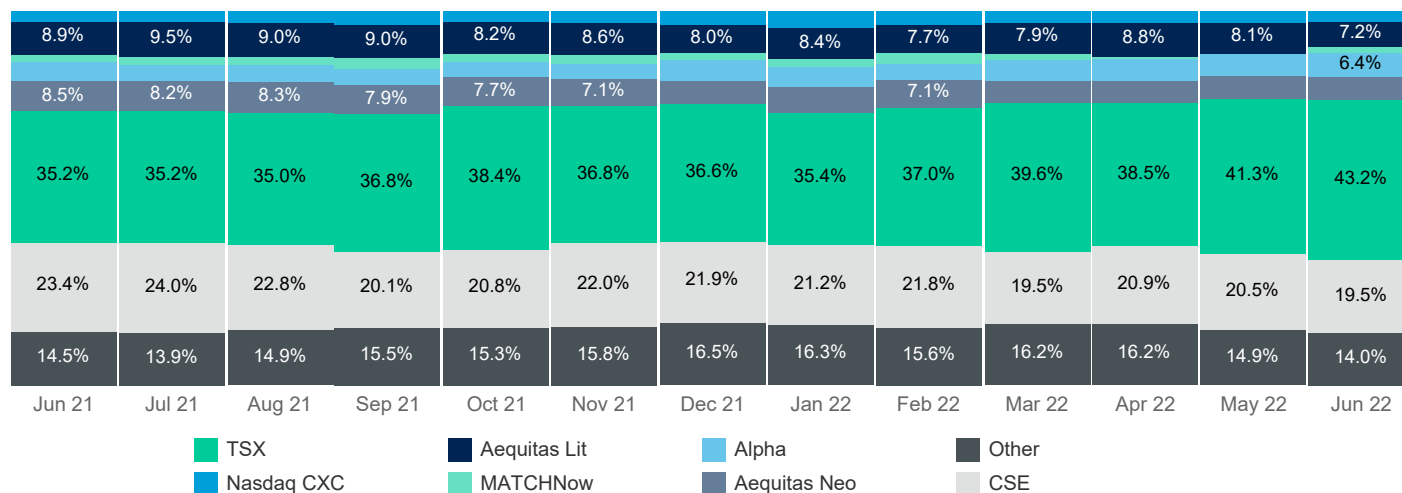


Source data: Virtu Financial

Venue Market Share (TSX-Listed)



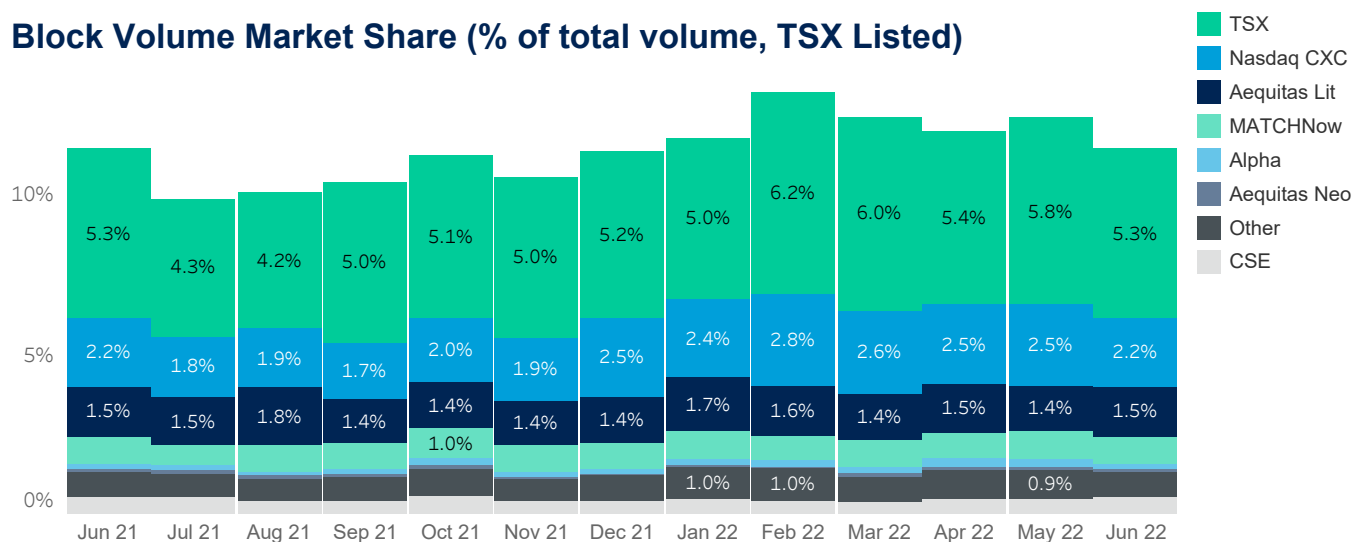
Venue Market Share (Non-TSX-Listed)



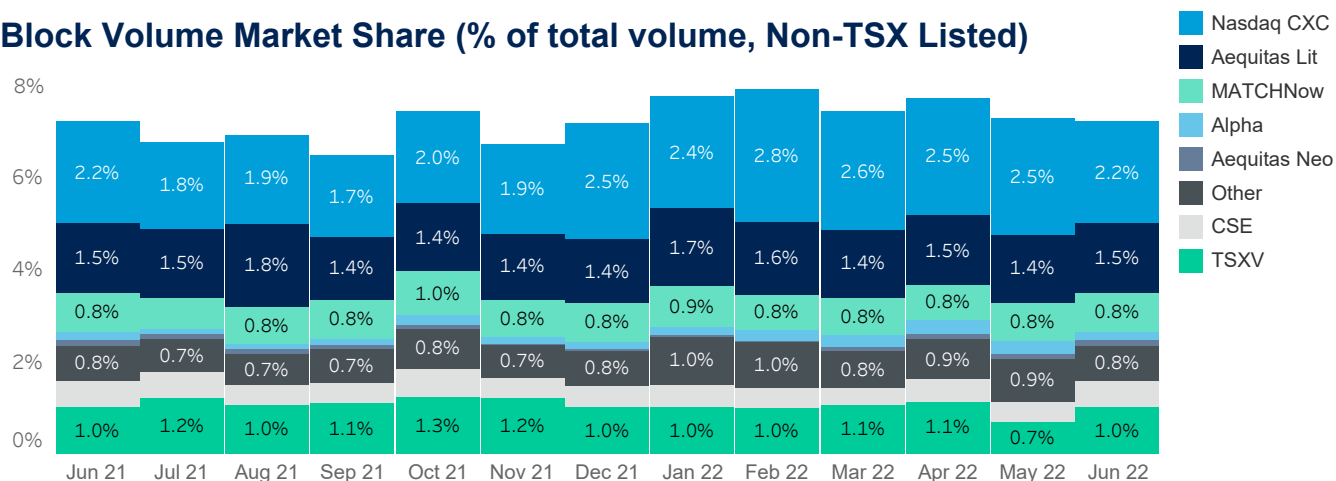
Source data: Virtu Financial



Block Volume Market Share (% of total volume, TSX Listed)

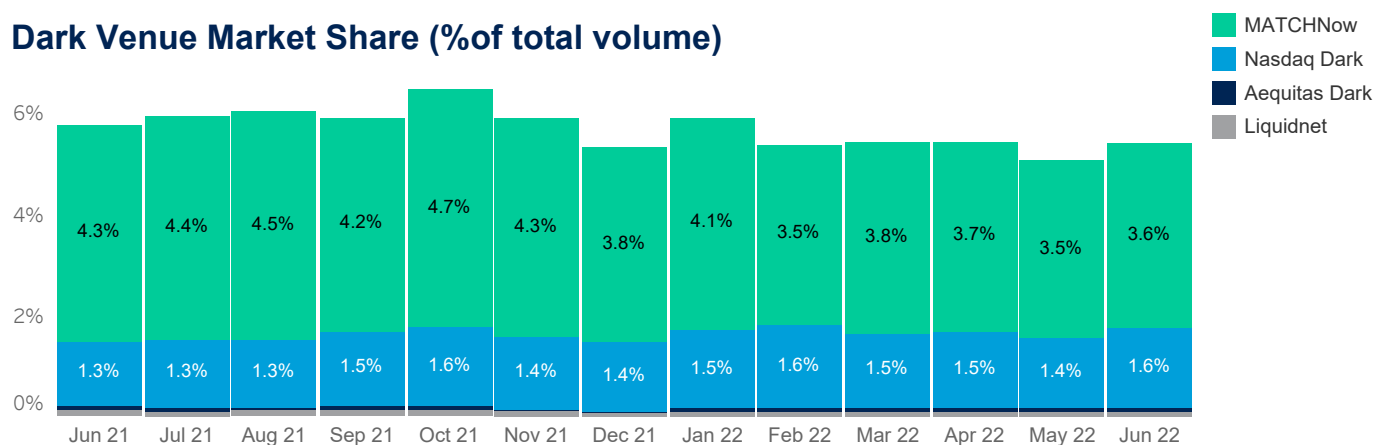


Block Volume Market Share (% of total volume, Non-TSX Listed)



Blocks defined as >5100 shares and > \$30,000 CAD or >=\$100K CAD; Source data: Virtu Financial

Dark Venue Market Share (% of total volume)



TSX listed securities only; Source data: Virtu Financial



Quotesize in Shares

		2Q 21	3Q 21			4Q 21			1Q 22			2Q 22		
		Jun 21	Jul 21	Aug 21	Sep 21	Oct 21	Nov 21	Dec 21	Jan 22	Feb 22	Mar 22	Apr 22	May 22	Jun 22
First 30 Min	S&P/TSX 60	880	841	862	912	887	836	866	818	759	800	807	786	881
	S&P/TSX Composite	1,071	986	1,011	1,054	1,082	992	1,049	968	884	945	995	958	1,067
	Non-TSX-Listed	7,778	6,394	5,729	6,073	6,360	6,702	5,071	5,189	5,000	6,079	5,540	5,120	4,698
Mid Day	S&P/TSX 60	1,108	1,038	1,050	1,093	1,094	1,020	1,005	968	921	952	915	914	1,026
	S&P/TSX Composite	1,317	1,201	1,241	1,272	1,314	1,215	1,222	1,164	1,092	1,130	1,135	1,144	1,248
	Non-TSX-Listed	5,900	5,000	4,600	4,900	5,292	5,000	4,165	4,050	4,265	5,300	5,170	4,828	4,748
Last 30 Min	S&P/TSX 60	1,319	1,239	1,253	1,299	1,274	1,217	1,127	1,068	1,009	1,036	974	985	1,125
	S&P/TSX Composite	1,572	1,444	1,467	1,484	1,520	1,447	1,416	1,343	1,256	1,314	1,261	1,244	1,373
	Non-TSX-Listed	7,111	6,033	5,600	5,904	6,383	5,900	5,000	4,774	4,625	5,606	5,300	5,103	4,752

Spread Bps

First 30 Min	S&P/TSX 60	4.7	5.1	4.8	4.9	4.9	5.4	5.4	5.6	5.6	5.9	5.8	6.4	6.0
	S&P/TSX Composite	10.7	11.6	11.2	10.9	10.6	10.8	11.4	11.3	11.5	11.9	12.0	14.0	13.2
	Non-TSX-Listed	166.7	174.0	164.9	170.1	170.5	163.9	175.4	172.4	163.1	175.4	170.5	204.9	215.7
Mid Day	S&P/TSX 60	3.2	3.4	3.2	3.2	3.3	3.4	3.4	3.5	3.4	3.6	3.5	4.0	3.8
	S&P/TSX Composite	6.6	7.0	6.8	6.8	7.0	7.2	7.5	7.7	7.5	7.5	7.4	8.8	8.2
	Non-TSX-Listed	135.1	132.3	125.0	128.2	128.6	123.2	122.0	124.2	122.2	132.7	129.0	145.0	152.7
Last 30 Min	S&P/TSX 60	2.6	2.7	2.5	2.5	2.5	2.7	2.9	2.8	2.8	2.7	2.7	3.0	3.0
	S&P/TSX Composite	5.8	6.0	5.9	5.8	6.0	6.2	6.5	6.6	6.7	6.4	6.4	7.4	7.1
	Non-TSX-Listed	133.4	131.6	124.3	129.9	126.8	123.5	125.7	125.5	125.5	133.3	129.0	147.1	144.9

One Minute Volatility Bps

First 30 Min	S&P/TSX 60	10.5	10.7	11.0	11.9	11.7	11.6	13.3	13.9	13.8	15.4	14.3	17.0	15.3
	S&P/TSX Composite	14.1	15.2	15.1	15.6	15.1	15.1	17.4	17.8	17.9	19.0	17.6	21.0	19.9
	Non-TSX-Listed	16.7	17.7	18.0	19.6	17.5	19.9	24.0	24.1	22.7	18.6	21.3	36.5	33.1
Mid Day	S&P/TSX 60	3.1	3.5	3.3	3.7	3.4	3.5	4.4	5.2	4.9	5.3	5.0	7.3	5.8
	S&P/TSX Composite	3.4	3.8	3.4	3.8	3.6	3.9	4.7	5.7	5.5	6.0	5.6	8.2	6.8
	Non-TSX-Listed	5.0	6.1	5.7	6.3	5.8	5.8	7.1	9.2	7.1	6.3	7.2	12.5	9.7
Last 30 Min	S&P/TSX 60	3.4	3.6	3.1	3.5	3.3	3.4	4.5	5.2	5.4	5.2	4.9	7.5	5.8
	S&P/TSX Composite	3.4	3.4	2.9	3.4	3.2	3.4	4.5	5.1	5.3	5.2	5.0	7.3	5.7
	Non-TSX-Listed	4.4	5.4	5.2	6.8	4.9	4.9	6.7	8.6	6.2	5.6	6.6	11.3	7.7

Percent MDV by Time of Day

Open	S&P/TSX 60	0.6%	0.7%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.7%
	S&P/TSX Composite	0.5%	0.6%	0.5%	0.5%	0.6%	0.6%	0.5%	0.5%	0.6%	0.6%	0.5%	0.5%	0.5%
	Non-TSX-Listed	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
First 30 Min	S&P/TSX 60	13.8%	13.1%	13.2%	14.5%	14.1%	14.3%	13.5%	12.8%	13.4%	13.4%	12.6%	12.6%	12.4%
	S&P/TSX Composite	13.6%	14.0%	13.8%	14.2%	14.1%	14.3%	13.3%	12.4%	13.4%	13.8%	12.8%	12.6%	12.8%
	Non-TSX-Listed	19.4%	19.0%	17.9%	18.4%	18.8%	19.4%	17.3%	17.4%	17.5%	17.1%	18.0%	18.7%	18.9%
Last 30 Min	S&P/TSX 60	36.9%	32.0%	29.8%	31.8%	29.7%	31.5%	34.2%	33.5%	35.1%	34.8%	39.2%	36.9%	41.4%
	S&P/TSX Composite	24.6%	25.2%	22.7%	22.9%	22.0%	23.5%	25.1%	23.0%	25.9%	25.2%	25.3%	26.5%	24.6%
	Non-TSX-Listed	9.3%	9.0%	8.7%	8.7%	8.1%	8.3%	8.0%	8.4%	8.9%	8.2%	7.6%	7.2%	7.2%
Close	S&P/TSX 60	7.0%	7.0%	6.4%	6.6%	7.3%	6.4%	6.9%	6.7%	7.8%	6.9%	7.8%	6.7%	7.4%
	S&P/TSX Composite	3.8%	4.2%	3.2%	3.3%	3.7%	3.7%	3.6%	3.5%	4.0%	3.8%	4.3%	4.0%	4.5%
	Non-TSX-Listed	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

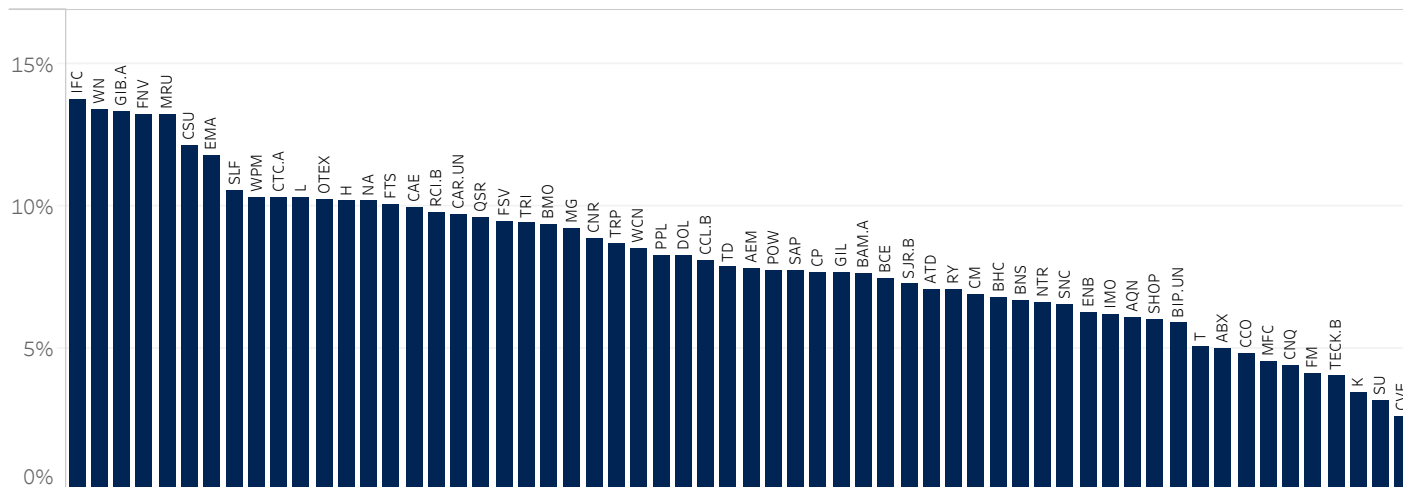
Median used for all metrics

One minute volatility is calculated using the difference between the high and low price within a one minute time bin, divided by that bin's VWAP

Source data: Virtu Financial



June 2022 Median MOC % of Daily Volume - S&P/TSX 60



Source data: Virtu Financial



ABOUT VIRTU

Virtu is a leading financial services firm that leverages cutting-edge technology to provide execution services and data, analytics and connectivity products to its clients and deliver liquidity to the global markets. Leveraging its global market making expertise and infrastructure, Virtu provides a robust product suite including offerings in execution, liquidity sourcing, analytics and broker-neutral, multi-dealer platforms in workflow technology. Virtu's product offerings allow clients to trade on hundreds of venues across 50+ countries and in multiple asset classes, including global equities, ETFs, foreign exchange, futures, fixed income and myriad other commodities. In addition, Virtu's integrated, multi-asset analytics platform provides a range of pre and post-trade services, data products and compliance tools that clients rely upon to invest, trade and manage risk across global markets.

To learn more, contact your sales representative or call our desk at:

APAC+852.2846.3553 | **CAN**+1.416.874.0800 | **EMEA**+44.20.7670.4066 | **US**+1.646.682.6199
info@virtu.com | www.virtu.com

© 2021 Virtu Financial, Inc. All rights reserved. Not to be reproduced or retransmitted without permission. These materials are for informational purposes and are not intended to be used to make trading or investment decisions, they are not intended as an offer to sell or the solicitation of an offer to buy any security or financial product, and are not intended as advice (investment, tax or legal). The information contained herein includes Virtu proprietary information and/or has been taken from sources we believe to be reliable, but we do not represent or warrant that such information is accurate or complete and it should not be relied upon as such.

Analytics products and services referenced herein may not be subject to oversight by regulatory authorities in one or more jurisdictions, including in Europe, where such products and services are offered by Virtu ITG Ventures Limited, registered in Ireland No. 295549 ("VIVL"). VIVL does not engage in regulated activity.

Securities products and services are offered by the following subsidiaries of Virtu Financial, Inc. In the U.S., Virtu Americas LLC, member FINRA and SIPC; in Canada, Virtu ITG Canada Corp., member Canadian Investor Protection Fund and Investment Industry Regulatory Organization of Canada; in Europe, Virtu ITG Europe Limited, registered in Ireland No. 283940 ("VIEL") (VIEL is authorized and regulated by the Central Bank of Ireland), and Virtu Financial Ireland Limited, registered in Ireland No. 471719 ("VFIL") (VFIL is authorized and regulated by the Central Bank of Ireland). The registered office of VIEL and VFIL is Whitaker Court, Whitaker Square, Sir John Rogerson's Quay, Dublin 2, Ireland; in Asia, Virtu ITG Hong Kong Limited (SFC License No. AHD810), Virtu ITG Singapore Pte Limited (CMS License No. 100138-1), and Virtu ITG Australia Limited (AFS License No. 219582).