

# October 2022

## EMEA Market Structure Monthly

### MICROSTRUCTURE OBSERVATIONS

- In October 2022, the average daily volume in EMEA equities decreased to €40.4B, 5% lower than previous month (€42.7B) and below October 2021's volume by 8% (€43.7B).
- The median quote size decreased at the European Best Bid and Offer (EBBO) in October for STOXX 50 by 3% and STOXX 600 by 15% during the intraday trading period (08:30 to 16:00 GMT).
- Median spreads have not changed significantly in October. STOXX 50 decreased by 3% to 3.4bps and STOXX 600 symbol spreads increased by 1% to 6bps, during the intraday trading period.
- Volatility levels remain high in October relative to Q4 in 2021, STOXX 50 decreased by 9% and STOXX 600 increased by 3% during intraday trading.
- The market share distribution between venues changed from the prior month. Primary Auctions market share decreased by 4% while MTF lit market share increased to its highest level at 25.1%. FBA venues market share increased by 0.3% while dark venues increased by 0.4%.
- Cboe and Turquoise's dark market share increased by 2% while Aquis market share decreased by 3% post their migration from UBS to Aquis technology.
- Cboe's large-in-scale market share decreased by 1%, Turquoise's decreased by 1% while Liquidnet increased by 1% and POSIT increased by 2%.
- In October the closing auction volume, fell by more than 2%, as percentage of the daily volume. STOXX50 was 18.2% and STOXX600 was 18.3%.

### EMEA MARKET STRUCTURE NEWS

#### **Nasdaq OMX Extends Post-Trade Anonymity to All Order Book Trades**

From 1st of December post-trade anonymity will be extended to Mid and Small Cap and First North Growth market shares. Members IDs (MPIDs) are already not visible for Large Cap and main index stocks. This change follows similar changes done by other exchanges (e.g. Swiss SE) and intends to increase direct trading on exchange by participants who typically use larger members brokers.

<https://view.news.eu.nasdaq.com/view?id=b378175b929abacbba4c1b6a0458188c6&lang=en>

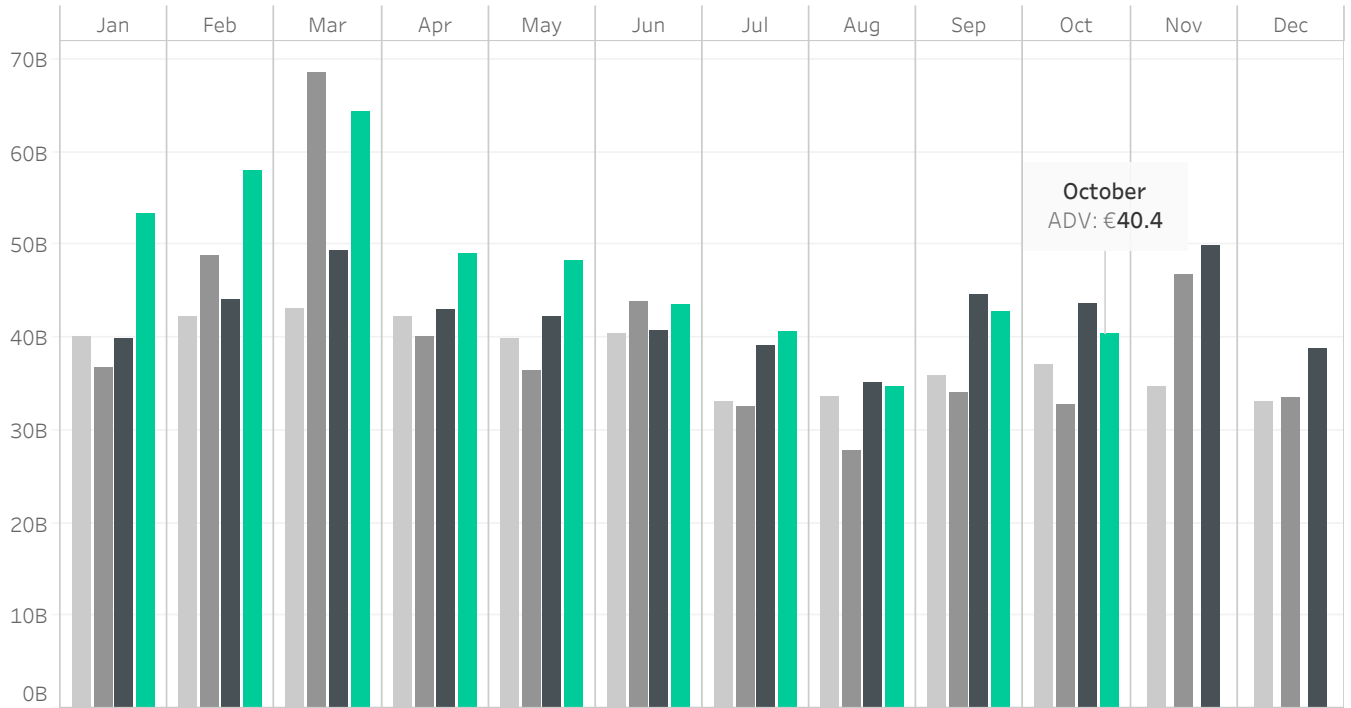
#### **European Securities and Markets Authority Announces Five Year Priorities**

The European Securities and Markets Authority's (ESMA) announces its strategic priorities for the next five years. ESMA will focus on Financial Stability, strengthening supervision, enhancing protection of retail investors, enabling sustainable finance, and facilitating technological innovation.

<https://www.esma.europa.eu/press-news/esma-news/esma-announces-strategic-priorities-next-five-years>

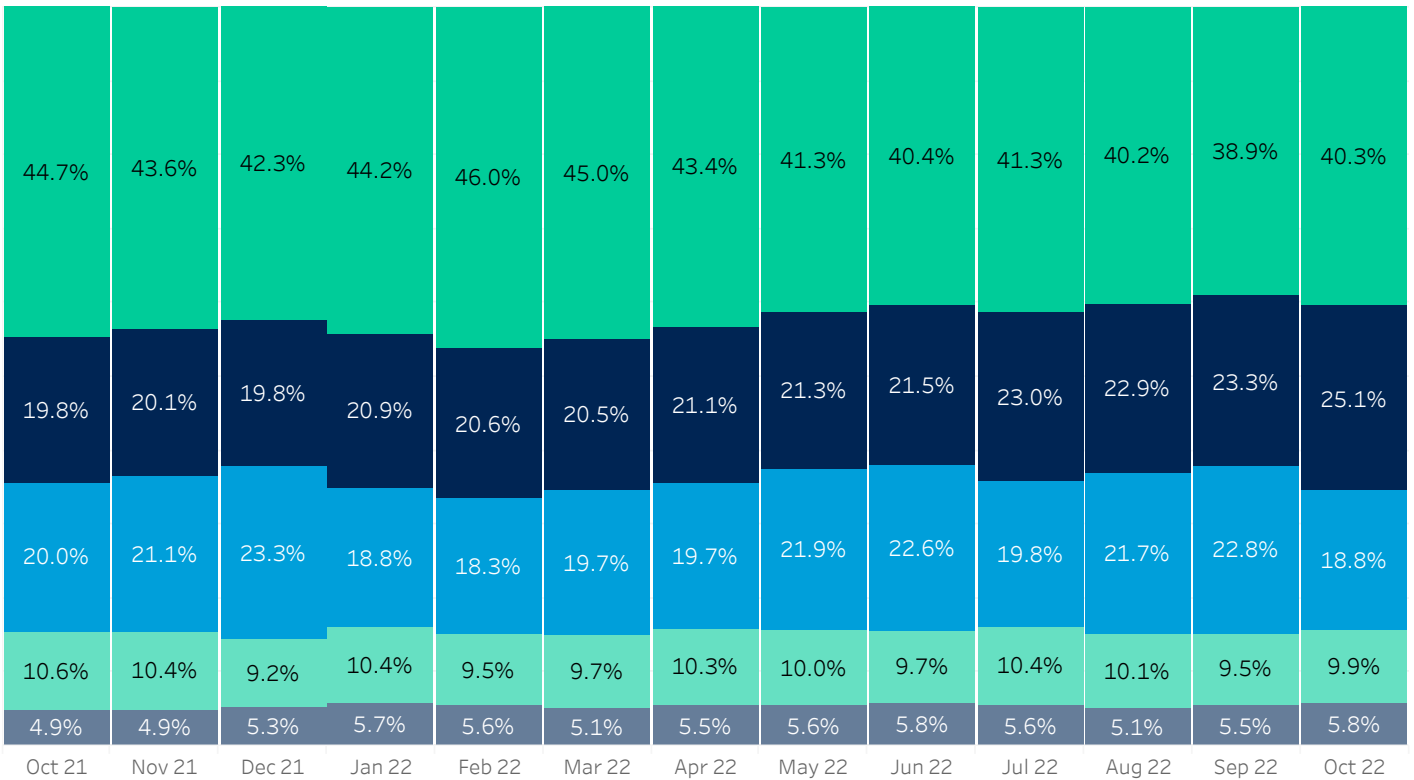


## Average Daily Market Volume



Source data: Cboe Global Markets    2019    2020    2021    2022

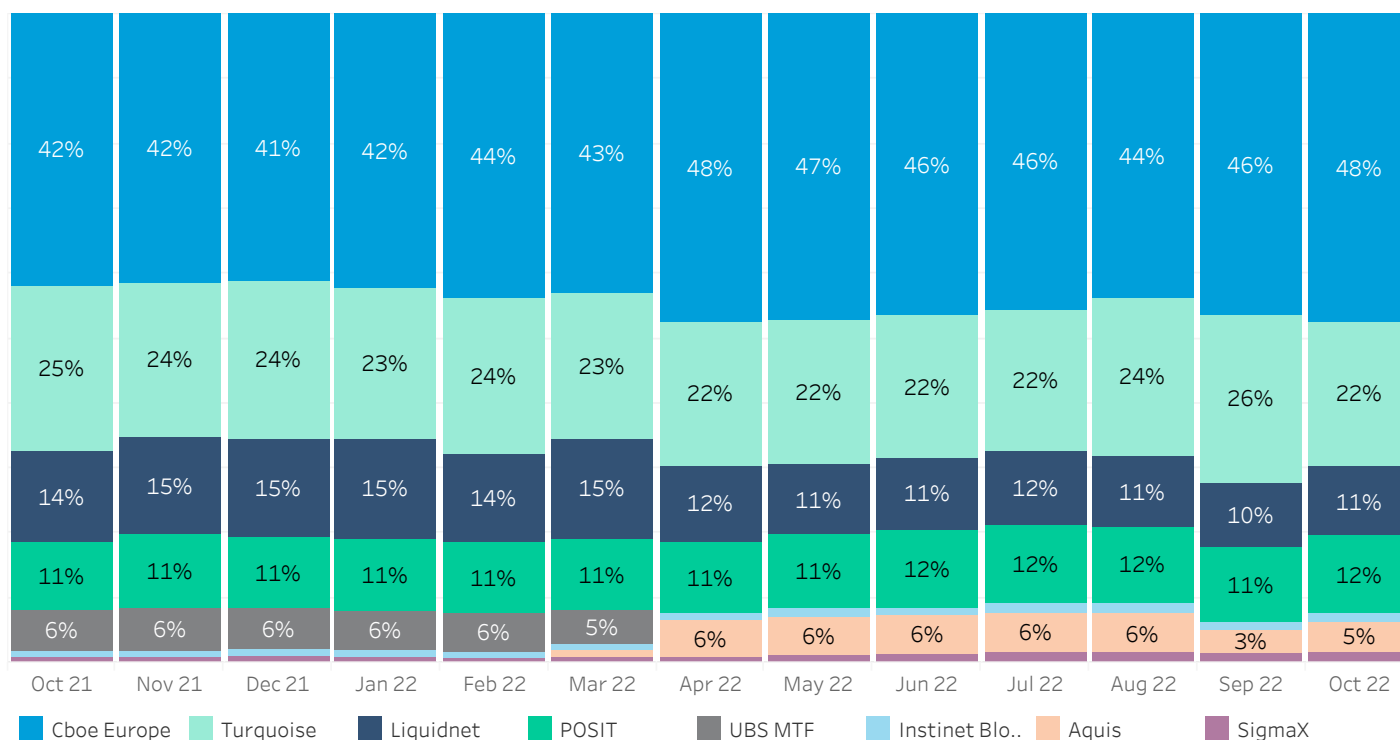
## Venue Type Market Share



Source data: Cboe Global Markets    Primary    MTF    Auctions    DARK    FBA

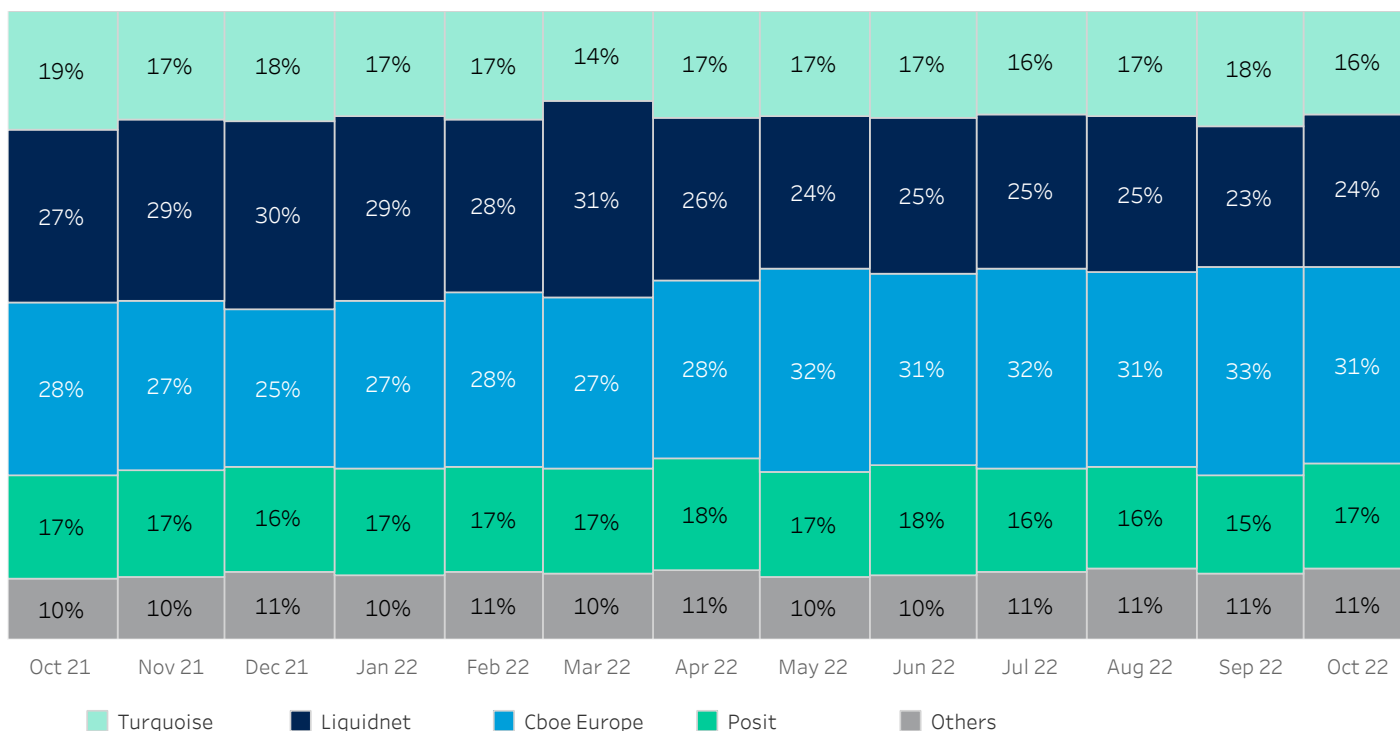


## Dark Market Share



Source data: Cboe Global Markets

## Block Market Share



Large In Scale values as per defined per symbol by ESMA; Source data: Virtu Financial



## Quotesize in Notional USD

		4Q 21			1Q 22			2Q 22			3Q 22			4Q 22
		Oct 21	Nov 21	Dec 21	Jan 22	Feb 22	Mar 22	Apr 22	May 22	Jun 22	Jul 22	Aug 22	Sep 22	Oct 22
8:00 - 8:30	Stoxx50	19.1K	18.0K	18.5K	18.8K	16.3K	17.3K	18.3K	17.9K	21.0K	16.8K	19.2K	18.2K	17.9K
	Stoxx600	10.4K	10.1K	10.6K	10.4K	9.6K	10.1K	11.0K	10.5K	10.0K	9.5K	10.2K	10.9K	9.8K
8:30 - 16:00	Stoxx50	33.3K	32.0K	33.6K	33.8K	29.7K	23.1K	25.8K	26.4K	33.9K	26.0K	26.6K	25.8K	25.1K
	Stoxx600	17.0K	16.3K	17.0K	17.0K	15.5K	12.6K	14.0K	13.3K	12.9K	11.9K	12.2K	13.4K	11.5K
16:00 - 16:30	Stoxx50	39.7K	38.1K	39.3K	37.9K	35.1K	28.3K	33.3K	33.1K	39.8K	31.3K	31.4K	29.0K	28.8K
	Stoxx600	19.9K	18.9K	19.0K	19.1K	18.6K	14.6K	17.0K	16.0K	15.4K	14.6K	14.7K	15.0K	13.8K

## Spread Bps

8:00 - 8:30	Stoxx50	4.1	4.2	4.2	4.0	4.5	5.3	4.9	5.0	5.4	5.9	5.0	5.3	5.3
	Stoxx600	7.6	8.1	7.8	8.2	8.8	10.1	9.1	9.4	9.6	10.4	9.2	9.6	9.9
8:30 - 16:00	Stoxx50	2.3	2.4	2.5	2.5	2.7	3.2	3.0	3.0	3.4	3.6	3.2	3.5	3.4
	Stoxx600	4.2	4.5	4.5	4.7	5.0	5.8	5.2	5.6	5.9	6.3	5.4	5.9	6.0
16:00 - 16:30	Stoxx50	2.0	2.1	2.2	2.2	2.3	2.7	2.5	2.6	2.8	3.0	2.7	2.9	2.8
	Stoxx600	3.5	3.8	4.0	4.1	4.1	4.7	4.4	4.7	4.8	5.1	4.5	4.8	4.9

## One Minute Volatility Bps

8:00 - 8:30	Stoxx50	12.7	12.9	12.1	14.8	17.6	22.3	18.2	16.5	16.9	22.3	14.6	17.4	17.3
	Stoxx600	11.8	12.5	11.0	14.1	16.5	21.5	17.3	16.3	16.2	18.2	14.1	17.4	18.0
8:30 - 16:00	Stoxx50	5.2	5.6	5.3	6.6	7.8	10.0	7.3	7.3	7.6	10.2	6.6	8.7	8.1
	Stoxx600	4.9	5.2	4.9	5.9	6.7	8.5	6.5	6.8	6.8	7.7	5.9	7.4	7.6
16:00 - 16:30	Stoxx50	4.7	4.9	5.6	6.7	7.0	9.5	7.2	8.4	8.1	9.2	6.9	8.5	8.5
	Stoxx600	4.1	4.5	4.8	5.5	5.5	7.3	6.0	7.0	6.5	6.8	5.4	6.8	7.0

## Percent ADV by Time of Day

Open	Stoxx50	1.0%	0.9%	0.9%	1.0%	1.0%	0.9%	1.0%	0.8%	0.9%	0.7%	0.7%	0.7%	0.6%
	Stoxx600	0.5%	0.5%	0.6%	0.7%	0.6%	0.5%	0.6%	0.5%	0.5%	0.4%	0.4%	0.4%	0.3%
8:00 - 8:30	Stoxx50	8.5%	9.4%	9.0%	9.9%	9.2%	7.8%	7.5%	7.6%	15.1%	22.2%	14.5%	15.5%	14.8%
	Stoxx600	7.1%	7.3%	6.8%	8.3%	7.9%	7.8%	8.2%	7.7%	8.3%	9.3%	9.6%	9.9%	9.8%
16:00 - 16:30	Stoxx50	11.7%	18.3%	19.4%	16.1%	15.5%	16.9%	14.8%	15.3%	16.2%	16.1%	12.3%	11.0%	12.2%
	Stoxx600	11.5%	12.8%	13.6%	12.7%	12.2%	12.4%	10.6%	11.9%	12.1%	12.7%	13.7%	12.9%	12.2%
Close	Stoxx50	26.6%	25.8%	28.7%	22.2%	21.9%	23.6%	23.5%	23.8%	25.7%	24.4%	22.5%	20.7%	18.2%
	Stoxx600	26.7%	26.3%	29.0%	24.0%	24.5%	23.8%	26.0%	24.2%	26.3%	23.2%	21.1%	20.3%	18.3%

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



## 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**+1.212.444.6250

[info@virtu.com](mailto:info@virtu.com) | [www.virtu.com](http://www.virtu.com)

© 2022 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.

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).