

(RTS28) BEST EXECUTION TOP 5 VENUE DISCLOSURE

AllianceBernstein Limited ("ABL") will summarize and make public on an annual basis, for each class of financial instruments, the top five execution venues in terms of trading volumes where we executed professional client orders in the preceding year and information on the quality of execution obtained.

ABL invests in financial instruments on behalf of our clients, as part of the investment management services which we provide. In carrying out this activity we execute orders on behalf of clients and transmit or place orders for clients with other entities for execution.

ORDER TRANSMISSION

ABL will take "all sufficient steps" to achieve the best possible results for our clients.

Where we owe a duty of best execution, we will take all sufficient steps to obtain the best possible result ('best execution')

for our clients considering all relevant factors, including:

- + price;
- + costs (including both implicit costs such as market impact and opportunity cost and explicit costs such as commissions);
- + size;
- + speed;
- + likelihood of execution;
- + likelihood of settlement; and
- + the nature of the order.

In addition to the factors listed above, we will also consider the following factors as being relevant to the execution of the order:

- + the ability to retain anonymity in the market; and
- + the prevention of information leakage.

The relative importance of each of these factors within our trading process will vary depending upon a number of criteria, including:

- + the investment intent of the investment manager who created the order at ABL;
- the characteristics of financial instruments that are the subject of that order; and
- the characteristics of the execution venues to which that order can be directed.

Each client order that is transacted by our traders is inherently unique in its characteristics and market conditions are never constant.

In some circumstances, price volatility may mean that the timeliness of execution is a priority, whereas, in other markets that have low liquidity, the availability of securities may itself constitute best execution. In other cases, our choice of execution venue may be limited by the nature of the investments within the strategy selected by the client.

Regulatory requirements provide that 'best execution' be sought in all circumstances however does not prescribe that best price must be achieved on all occasions. Our obligations require us to take all sufficient steps to obtain the best possible result on all our trading on a consistent basis.

It is our policy, therefore, to have a process which ensures that every client order is treated in a way that aims to maximize the chance of achieving the best set of results when trading.

BEST EXECUTION

The purpose of our monitoring program is twofold. Firstly, to test the effectiveness of our overall execution arrangements and, secondly, to meet our regulatory obligations on best execution.

The Best Execution Committees (the "Committee") are responsible for the supervision of compliance with applicable regulations related to best execution. The Committees are comprised of the following departments: Compliance, Trading and Portfolio Management.

The Trading teams provides information to the Committees on a periodic and ad hoc basis regarding the criteria utilized in selecting counterparties (e.g., experience, execution capabilities, reputation, capitalization), and other information that may be requested by the Committees.

At the forefront of our monitoring are the Trading teams who are responsible for monitoring and evaluating the performance and execution capabilities of our trading venues and counterparties.

The most significant check Fixed Income employs is the contemporaneous review by the trader of the price achieved on each trade, given the precise circumstances of each trade. Our traders are required to monitor and continually evaluate the quality of a trading venue / counterparties performance and question those that do not appear to represent good participation in the market.

We also use systems to monitor trading and execution levels. For example, all ABL traders are required to record systematically for each trade, information which gives insight into their evaluation of the market at the point of execution. This typically results in either the recording of multiple quotes for the trade (execution levels) or a reason as to why the trader did not seek multiple execution levels on that occasion. These reasons must be selected from a pre-determined list to ensure consistency in the monitoring process. Compliance with that requirement is checked daily and the information recorded may be used to monitor the performance of the counterparties used by our trading desks.

Equity trading activity is analyzed as part of our best execution process. Our external transaction cost analysis ("TCA") provider, Virtu Financial Inc reviews all our equity trades and performs a rigorous analysis against a variety of different benchmarks. In addition to the external TCA performed on all our trading activity, our quantitative team does a thorough analysis of all systematically routed orders. We routinely alter our trading behavior as a result of this analysis and, in certain cases, discontinue the routing of orders to a particular strategy or venue. This analysis is reviewed by the Committee.

When executing orders, or taking decisions to deal in OTC products, ABL checks the fairness of the price proposed to the client, by gathering market data used in the estimation of the price of such product and, where possible, by comparing with similar or comparable products.

We also have a requirement to monitor and review the execution quality of the trading venues and counterparties used to ensure continued compliance with our order execution arrangements and policy. We are therefore responsible for monitoring and reviewing our own internal processes for ensuring the selection of appropriate Trading venues and counterparties to enable the achievement of "best execution" for the trading we actively undertake. We also evaluate the order execution arrangements of the intermediaries through whom we actively trade on behalf of clients (for example, by receipt and review of their execution policies where governed by MiFID II) as well as the execution quality of these entities.

Global Equity Trading regularly evaluates the execution, performance and risk profile of the counterparties it uses. The Trading Desk actively shifts trades from underperforming counterparties, electronic trading venues or algorithmic trading strategies to those that are outperforming using internal execution metrics data. In other instances, the Trading Desk may also limit or discontinue trading activity when there is an increase in the risk profile of a counterparty.

Our Trading Team is supported by our Compliance Department which undertake compliance monitoring of all our trading.

TRADING VENUES AND COUNTERPARTIES

Our policy is to maintain a choice of trading venues and counterparties that offer the greatest potential for ABL to obtain the best possible result for the execution of client orders on a consistent basis.

When executing transactions or when placing orders with (or trans- mitting your orders to) other counterparties (including affiliates) to execute, ABL will take all sufficient steps to obtain on a consistent basis the best possible result when executing transactions and will act in accordance with the best interests of the client when transmitting client orders to other counterparties for execution.

When executing orders, ABL may choose to utilize either affiliated or non-affiliated counterparties to assist in the execution of client trades. On an annual basis ABL undertakes reviews to determine whether any affiliated or non-affiliated counterparties used can provide the appropriate level of experience and expertise when executing in that market. Furthermore, on a periodic basis ABL also ensures that, whilst considering all relevant execution factors, affiliated and non-affiliated counterparty executions are monitored so that ABL may satisfy itself that best execution is being met on a consistent basis and any conflict of interests are managed appropriately.

MiFIR requires that Counterparties conclude transactions in specified classes of derivatives only on Trading Venues or third-country venues deemed equivalent under MiFID II (the "Derivatives Trading Obligation"). When ABL concludes transactions in derivatives subject to the Derivatives Trading Obligation, the choice of execution venues for the transaction will be restricted. In such circumstances, ABL will seek to satisfy its best execution obligations in accordance with the Derivatives Trading Obligation when determining the execution venue for the transaction.

RTS 28 REPORTING

The following RTS reporting is for the period of 1 January 2023 and 31 December 2023 and is available in a machine-readable electronic format.

Notification if <1 Average trade per day in the previous year	N				
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percent ge of Directed Orders
ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85	79.1%	86.9%	n/a	n/a	n/a
ALLIANCEBERNSTEIN HONG KONG LIMITED - 549300GNB8SC2JEHDW74	18.2%	10.6%	n/a	n/a	n/a
BARCLAYS BANK PLC - G5GSEF7VJP517OUK5573	0.7%	0.6%	n/a	n/a	n/a
CITIGROUP GLOBAL MARKETS INC MBNUM2BPBDO7JBLYG310	0.3%	0.0%	n/a	n/a	n/a
CREDIT AGRICOLE CORPORATE AND INVESTMENT BANK - 1VUV7VQFKUOQSJ21A208	0.2%	0.3%	n/a	n/a	n/a
Notification if <1 Average trade per day in the previous year	N				
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percent ge of Directer Orders
TRADEWEB - TREU	40.8%	58.7%	n/a	n/a	n/a
Bloomberg VCON	37.6%	18.6%	n/a	n/a	n/a
MARKETAXCESS - MAEL	13.2%	18.3%	n/a	n/a	n/a
BLOOMBERG MTF - BMTF	8.2%	4.0%	n/a	n/a	n/a
MA	0.2%	0.3%	n/a	n/a	n/a
Interest Rate Derivatives					
Notification if <1 Average trade per day in the previous year	N				
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percent ge of Directed Orders
ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85	82.3%	83.4%	n/a	n/a	n/a
ALLIANCEBERNSTEIN HONG KONG LIMITED - 549300GNB8SC2JEHDW74	10.5%	8.6%	n/a	n/a	n/a
	7.1%	7.8%	n/a	n/a	n/a
CITIGROUP GLOBAL MARKETS INC MBNUM2BPBDO7JBLYG310	0.1%	0.2%	n/a	n/a	n/a
GOLDMAN SACHS & COMPANY - FOR8UP27PHTHYVLBNG30					

Notification if <1 Average trade per day in the previous year	Υ	1	1	Т	
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders
ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85	84.8%	91.2%	n/a	n/a	n/a
BNP PARIBAS - RCNB6OTYUAMMP879YW96	15.2%	8.8%	n/a	n/a	n/a
Notification if <1 Average trade per day in the previous year	Y				
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders
Tradweb - TREU	100.0%	100.0%	n/a	n/a	n/a
Structured Finance Instruments					
Notification if <1 Average trade per day in the previous year	Y				
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders
ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85	78.2%	85.9%	n/a	n/a	n/a
NATIXIS - KX1WK48MPD4Y2NCUIZ63	7.6%	3.0%	n/a	n/a	n/a
CREDIT AGRICOLE CORPORATE AND INVESTMENT BANK - 1VUV7VQFKUOQSJ21A208	5.5%	3.0%	n/a	n/a	n/a
ANZ SECURITIES INC - 54930002PP10BF1UXP39	2.9%	0.7%	n/a	n/a	n/a
BANCO SANTANDER SA - 5493006QMFDDMYWIAM13	1.3%	1.5%	n/a	n/a	n/a
Notification if <1 Average trade per day in the previous year	Y				
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders
TRADEWEB - TREU	44.5%	69.2%	n/a	n/a	n/a
BLOOMBERG MTF - BMTF	29.1%	13.2%	n/a	n/a	n/a
Bloomberg VCON	15.7%	5.0%	n/a	n/a	n/a
MARKETAXCESS - MAEL	10.7%	12.5%	n/a	n/a	n/a

For the following asset classes Alliance Bernstein will forward the order to one of our affiliates for execution as that is where the expertise to execute these asset classes is based.

		1			
Currency Derivatives					
Notification if <1 Average trade per day in the previous year	Y				
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders
ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85	100.0%	100.0%	n/a	n/a	n/a
Securitized Derivatives					
Notification if <1 Average trade per day in the previous year	Υ			1	
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders
ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85	100.0%	100.0%	n/a	n/a	n/a
Equities					
Notification if <1 Average trade nor day in the previous year	N				
Notification if <1 Average trade per day in the previous year	N		_	_	
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders
ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85	32.85%	29.41%	n/a	n/a	n/a
BARCLAYS CAPITAL SECURITIES LIMITED - K9WDOH4D2PYBSLSOB484	7.39%	6.13%	n/a	n/a	n/a
GOLDMAN SACHS & COMPANY - FOR8UP27PHTHYVLBNG30	7.03%	7.49%	n/a	n/a	n/a
ALLIANCEBERNSTEIN HONG KONG LIMITED - 549300GNB8SC2JEHDW74	6.08%	4.94%	n/a	n/a	n/a
UBS LTD - REYPIEJN7XZHSUI0N355	6.01%	4.86%	n/a	n/a	n/a
Equity Swap					
Notification if 41 Average trade and down the accordance	N				
Notification if <1 Average trade per day in the previous year Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders

MORGAN STANLEY & CO. LLC - 9R7GPTSO7KV3UQJZQ078	15.43%	7.06%	n/a	n/a	n/a
GOLDMAN SACHS & COMPANY - FOR8UP27PHTHYVLBNG30	10.25%	12.21%	n/a	n/a	n/a
MERRILL LYNCH INTERNATIONAL - GGDZP1UYGU9STUHRDP48	9.19%	9.30%	n/a	n/a	n/a
MORGAN STANLEY & CO. LLC - 9R7GPTSO7KV3UQJZQ078	8.99%	11.79%	n/a	n/a	n/a
JP MORGAN CHASE BANK N.A. 7H6GLXDRUGQFU57RNE97	8.79%	10.94%	n/a	n/a	n/a
Equity ETF					
Notification if <1 Average trade per day in the previous year	N		1		
Top five execution venues ranked in terms of trading volume (Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders
ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85	72.91%	68.30%	n/a	n/a	n/a
CITIGROUP GLOBAL MARKETS LIMITED - XKZZ2JZF41MRHTR1V493	8.46%	6.70%	n/a	n/a	n/a
MORGAN STANLEY & CO. LLC - 9R7GPTSO7KV3UQJZQ078	7.43%	6.70%	n/a	n/a	n/a
UBS SECURITIES LLC - T6FIZBDPKLYJKFCRVK44	2.69%	1.55%	n/a	n/a	n/a
J.P. MORGAN SECURITIES LLC - ZBUT11V806EZRVTWT807	2.48%	6.96%	n/a	n/a	n/a
Equity F&O					
Notification if <1 Average trade per day in the previous year	N				
Top five execution venues ranked in terms of trading volume	N				
(Descending Order)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as a percentage of total in that class	Percenta ge of Passive Orders	Percenta ge of Aggressiv e Orders	Percenta ge of Directed Orders
•	of volume traded as a percentage of total in	of orders executed as a percentage of total in	ge of Passive	ge of Aggressiv	ge of Directed
(Descending Order) MORGAN STANLEY & CO. INTERNATIONAL PLC -	of volume traded as a percentage of total in that class	of orders executed as a percentage of total in that class	ge of Passive Orders	ge of Aggressiv e Orders	ge of Directed Orders
(Descending Order) MORGAN STANLEY & CO. INTERNATIONAL PLC - 4PQUHN3JPFGFNF3BB653	of volume traded as a percentage of total in that class	of orders executed as a percentage of total in that class	ge of Passive Orders n/a	ge of Aggressiv e Orders n/a	ge of Directed Orders
(Descending Order) MORGAN STANLEY & CO. INTERNATIONAL PLC - 4PQUHN3JPFGFNF3BB653 JP MORGAN AUSTRALIA LTD - 549300SFYOCEFSJJLX08	of volume traded as a percentage of total in that class 39.72%	of orders executed as a percentage of total in that class 43.05%	ge of Passive Orders n/a	ge of Aggressiv e Orders n/a	ge of Directed Orders n/a
(Descending Order) MORGAN STANLEY & CO. INTERNATIONAL PLC - 4PQUHN3JPFGFNF3BB653 JP MORGAN AUSTRALIA LTD - 549300SFYOCEFSJJLX08 ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85	of volume traded as a percentage of total in that class 39.72% 28.44%	of orders executed as a percentage of total in that class 43.05% 29.87%	ge of Passive Orders n/a n/a	ge of Aggressiv e Orders n/a n/a n/a	ge of Directed Orders n/a n/a
(Descending Order) MORGAN STANLEY & CO. INTERNATIONAL PLC - 4PQUHN3JPFGFNF3BB653 JP MORGAN AUSTRALIA LTD - 549300SFYOCEFSJJLX08 ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85 GOLDMAN SACHS INTERNATIONAL - W22LROWP2IHZNBB6K528	of volume traded as a percentage of total in that class 39.72% 28.44% 13.53% 4.30%	of orders executed as a percentage of total in that class 43.05% 29.87% 19.40%	ge of Passive Orders n/a n/a n/a n/a	ge of Aggressiv e Orders n/a n/a n/a n/a	ge of Directed Orders n/a n/a n/a n/a
MORGAN STANLEY & CO. INTERNATIONAL PLC - 4PQUHN3JPFGFNF3BB653 JP MORGAN AUSTRALIA LTD - 549300SFYOCEFSJJLX08 ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85 GOLDMAN SACHS INTERNATIONAL - W22LROWP2IHZNBB6K528 MORGAN STANLEY & CO. LLC - 9R7GPTSO7KV3UQJZQ078 Securitized Rights Warrants	of volume traded as a percentage of total in that class 39.72% 28.44% 13.53% 4.30%	of orders executed as a percentage of total in that class 43.05% 29.87% 19.40%	ge of Passive Orders n/a n/a n/a n/a	ge of Aggressiv e Orders n/a n/a n/a n/a	ge of Directed Orders n/a n/a n/a n/a
(Descending Order) MORGAN STANLEY & CO. INTERNATIONAL PLC - 4PQUHN3JPFGFNF3BB653 JP MORGAN AUSTRALIA LTD - 549300SFYOCEFSJJLX08 ALLIANCEBERNSTEIN L.P 0JK55UGWSWNF3X7KLQ85 GOLDMAN SACHS INTERNATIONAL - W22LROWP2IHZNBB6K528 MORGAN STANLEY & CO. LLC - 9R7GPTSO7KV3UQJZQ078	of volume traded as a percentage of total in that class 39.72% 28.44% 13.53% 4.30% 3.38%	of orders executed as a percentage of total in that class 43.05% 29.87% 19.40%	ge of Passive Orders n/a n/a n/a n/a	ge of Aggressiv e Orders n/a n/a n/a n/a	ge of Directed Orders n/a n/a n/a n/a

MACQUARIE CAPITAL SECURITIES - 549300ADUET4CKK35E02	10.16%	23.91%	n/a	n/a	n/a
J.P. MORGAN SECURITIES LLC - ZBUT11V806EZRVTWT807	4.33%	4.35%	n/a	n/a	n/a
GOLDMAN SACHS INTERNATIONAL - W22LROWP2IHZNBB6K528	3.30%	2.17%	n/a	n/a	n/a
GOLDMAN SACHS & COMPANY - FOR8UP27PHTHYVLBNG30	0.77%	4.35%	n/a	n/a	n/a

ADDITIONAL RTS 28 REPORTING

During the calendar year, ABL has placed orders with our affiliates AllianceBernstein L.P., AllianceBernstein Australia Limited and AllianceBernstein Hong Kong Limited for execution with venues/ broker's. We believe our affiliates are best placed to transmit these orders when the characteristics of the financial instrument, venues and counterparties requires local knowledge. Further information regarding the venues and counterparties used by our affiliates is available via Additional RTS 28 reporting which can be requested from your account manager.

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