

# Annual Top Five execution Venue reporting for the year ended 31 December 2019 in respect of AXA Investment Managers GS Limited ("AXA IM GS" or "the Firm")

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# 1. Introduction

In accordance with Markets in Financial Instruments Directive ("MiFID II"), and where relevant, as transposed by the Financial Conduct Authority into UK regulatory requirements, this report provides information in respect of the top-five execution venues and counterparties used by AXA Investment Managers GS ("AXA IM GS" or "the Firm") when executing a client order on a trading venue, as defined by MiFID II, or when transmitting a client order with a counterparty to execute on the Firm's behalf for the year ended 31 December 2019 ("Top 5 Report").

In section 1 of this Top 5 Report, where the Firm executes a client order on a regulated trading venue, as defined by MiFID II, the Firm discloses the trading venue in the Top 5 Report. Where the Firm uses the RFQ system of a trading venue that allows the Firm to select a counterparty to execute a transaction on that trading venue, the Firm disclose the trading venue in the Top 5 Report. In these instances, the Firm additionally discloses the top 5 counterparties with which it has traded with on that trading venue, and the proportion of volume traded with each of these counterparties as a percentage of the total in that class of financial instruments. Where the firm discloses the percentage of 'directed orders' in relation to trading venue with an RFQ system, the percentage reported includes where the direction is made to the underlying counterparty itself.

In addition, where the Firm executes a client order outside of a regulated trading venue, but directly with a counterparty, the Firm discloses the counterparty in the Top 5 Report.

This Top 5 Report provides separate analysis per sub-asset class of financial instruments, as defined in Annex I of the Delegated Regulation supplementing MiFID II ("MiFIR"), for when AXA IM GS either executed a client order on a regulated trading venue (section 3) or transmitted a client order to a counterparty to execute on the Firm's behalf (section 4). Where analysis is not provided in this Top 5 Report for any class of financial instrument, as defined by MiFID II, AXA IM GS will not have traded in that particular class of financial instrument during the year ended 31 December 2019. Separate analysis has also been provided in respect of Securities Financing Transactions executed by the Firm on an execution venue (section 5).

For the asset class 'Equities – Shares & Depositary Receipts', Annex I of MiFIR requires separate analysis for the following subasset classes

- i. Tick size liquidity bands 5 and 6 (from 2000 trades per day)
- ii. Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)
- iii. Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)

The Firm has classified each equity traded into one distinct tick size liquidity band for the whole year. The tick size band categorisation has been made using the latest data available at the time of production of this report. Equities traded by the Firm which have not been classified into a tick size liquidity band (including non - EEA equities) are included in the 'other instruments' asset class.

In each section, the analysis encompasses where applicable:

- a) The top 5 execution venues or counterparty names and their respective identifiers in that class of financial instrument (venue name and identifier);
- b) Proportion of volume traded as a percentage of total in that class of financial instrument;
- c) Proportion of orders executed as a percentage of total in that class of financial instrument;
- d) Percentage of the executed orders referred to in point (c) that were passive and aggressive orders;
- e) Percentage of orders referred to in point (c) that were directed orders;
- f) Confirmation of whether AXA IM GS executed an average of less than one trade per business day during the year ended 31 December 2019 in that class of financial instrument; and
- g) Confirmation of whether the following order types were executed by AXA IM GS for the year ended 31 December 2019:
  - Directed orders 'directed orders' is defined as an order where a specific execution venue was specified by our client.
  - Passive orders 'passive order' means an order entered into the order book that provided liquidity.
  - Aggressive orders 'aggressive orders' means an order entered into the order book that took liquidity.

In the top 5 reports, the Firm has disclosed, for each execution venue or counterparty the percentage of the orders generated in that class of financial instrument directed to that execution venue or counterparty which the Firm considers as passive or aggressive in accordance with the above definitions.



In preparing this Top 5 Report, all numerical information has been prepared in British Pound ("GBP"). Where execution or transmission of client orders has not occurred in GBP, conversion has been made into GBP applying the applicable prevailing spot foreign exchange rate.



# 2. Consolidated qualitative analysis

The following qualitative information is provided by the Firm on a consolidated basis for the year ended 31 December 2019 because the information is common to all classes of financial instruments in scope of this Top 5 Report. Qualitative analysis that is bespoke to each class of financial instrument in scope of this Top 5 Report is provided within the abovementioned sections 3 - 5 of this Top 5 Report.

- For the year ended 31 December 2019, AXA IM GS only executed client orders on a trading venue or transmitted client orders with a counterparty to execute on the Firm's behalf in respect of professional clients.
- Other than Sanford C. Bernstein Limited which was still part of AXA Group, there were no close links or conflicts of interest and common ownerships with any execution venue or counterparty that AXA IM GS used during the year ended 31 December 2019 in respect of any class of financial instrument in scope of this Top 5 Report, whether it be for execution on a regulated trading venue or transmission with a counterparty to execute on the Firm's behalf in respect of clients' orders.
- There were no specific arrangements with any execution venue or counterparty of the Firm regarding payments made and received, discounts, rebates, or non-monetary benefits, regardless of class of financial instrument in scope of this Top 5 Report. The Firm may receive minor non-monetary benefits from its counterparties and these are only accepted after due and careful consideration has been made by the Firm in line with its regulatory obligations, including confirmation that such minor non-monetary benefits are deemed capable of enhancing the quality of services provided by the Firm to its clients and do not impair compliance with the firm's duty to act in the best interests of the client'.
- Counterparties utilised by the Firm are subject to an initial authorisation process and thereafter ongoing monitoring
  processes, which includes, but is not limited to, assessing the credit worthiness and financial stability of the
  counterparty, a review of the counterparty's execution services and the counterparty's ability to trade effectively
  on behalf of the Firm's clients. During the year ended 31 December 2019, selection of intermediaries has been
  expanded to include new counterparties that specialise in executing on specific markets so that the Firm is in a
  position to provide appropriate execution coverage to its clients.
- The Firm's execution arrangements, which are designed to achieve best execution, include being a member or participant of a regulated trading venue (in respect of a particular class of financial instrument) where it considers that this arrangement contributes to achieving best execution by allowing it to execute client orders directly on trading venue. The choice of a particular regulated trading venue when executing any client order is made with reference to the execution factors as set in this Top 5 Report for each class of financial instrument.
- The Best Execution Committee is part of the Firm's corporate governance framework and is a sub-committee of the Firm's Executive Committee. The Best Execution Committee is responsible for overseeing the effectiveness and adequacy of the Firm's controls and procedures in respect of best execution and to review adherence to the Firm's best execution policy.
- During the year ended 31 December 2019, AXA IM GS has not been in a position to use output of a consolidated tape provider given none are currently established in Europe.
- AXA IM GS generally takes into account the following execution factors in executing a client order: price of the financial instrument, costs directly related to transacting the order (including any commission or charges levied by AXA IM GS and implicit costs), speed of execution, likelihood of execution and settlement, size of the order, nature of the order and any other consideration relevant to the execution of the client order, provided that where a specific client instruction applies, AXA IM GS will employ that specific client instruction.
- In the absence of a specific client instruction, the other execution factors that AXA IM GS may take into consideration as relevant to the execution of the client order may include: the need for timely execution, the potential for price improvement, the potential price impact of a client order, the liquidity of the market (which may make it difficult to execute a client order), the nature of the transaction (including whether or not such transaction is executable on a regulated, market or not) the quality and cost effectiveness of any available clearing and



settlement facilities and the need for counterparty diversification. The relative significance of the execution factors will vary from transaction to transaction and will be influenced by the execution criteria.



#### 3. Annual Top-five Execution Venue Reporting for activity of Execution of orders on behalf of clients

Class of instrument		Debt instruments – Bonds				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	5 5			Percentage of aggressive orders	Percentage of directed orders*
MarketAxess Europe MTF	MAEL (MIC code)	44.00%	59.35%	-	-	-
Tradeweb Europe Limited MTF	TREU (MIC code)	26.07%	10.54%	-	-	-
JP Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	2.26%	1.66%	-	-	-
Barclays Bank PLC	G5GSEF7VJP5I7OUK5573	2.13%	1,91%	-	-	-
Goldman Sachs International	W22LROWP2IHZNBB6K528	2.06%	1.25%	-	-	-

\*The percentage of directed/passive/aggressive orders shown in the above table represents the percentage of trades with respect to all trades executed or placed with that counterparty as opposed to the percentage of all trades with respect to asset class.

The priority of the execution criteria when transacting bonds is typically:

- Priority 1: Price and size of the client order, likelihood of execution.
- Priority 2: Direct execution costs, speed of execution, likelihood settlement, nature of the client order.

Bond markets are not generally centrally organised and many non-government debt bond markets are considered as less liquid. Due to the large variance in liquidity across fixed income it may be necessary in the illiquid markets to consider likelihood of execution as the highest priority. However, this does not mean price is not taken into consideration. If liquidity is available and a price comparison is provided for the size of trade concerned, AXA IM GS will execute the order with the execution venue that provides the most competitive overall price.

Where possible, AXA IM GS has used independent Transaction Cost Analysis ("TCA") providers to help the Firm in its monitoring of execution services provided by its counterparties with whom it executes clients' orders. Regardless of whether a TCA was available or not, AXA IM GS established controls regarding the general principles of competing quotes and achieving best price execution, and if exceptions were identified, these were either explained or remediated as appropriate.

Included in the top 5 table above are two trading venues, MarketAxess London and Tradeweb London, where the Firm uses the trading venue to select a counterparty. The top 5 counterparties used when trading on these respective trading venues are disclosed below. The execution criteria disclosed above for this asset class apply equally when trading on a trading venue.



Class of instrument		Debt instruments - Bonds - MarketAxess Europe MTF disclosure			
Notification if < 1 average trade per business day in the previous year		No			
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class		
Morgan Stanley Co International PLC	4PQUHN3JPFGFNF3BB653	6.19%	5.73%		
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	5.23%	5.12%		
Barclays Bank PLC	G5GSEF7VJP5I7OUK5573	4.76%	3.89%		
HSBC Bank PLC	MP6I5ZYZBEU3UXPYFY54	3.86%	3.85%		
Goldman Sachs International	W22LROWP2IHZNBB6K528	3.19%	4.31%		

The percentage in the above table refers to the proportion of the total volume of trades executed on the trading venue as percentage of the total in that asset class.

Class of instrument		Debt instruments - Bonds - Tradeweb Europe Limited MTF disclosure				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class			
Barclays Bank PLC	G5GSEF7VJP5I7OUK5573	5.38%	1.70%			
JP Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	4.15%	1.86%			
NatWest Markets PLC	RR3QWICWWIPCS8A4S074	3.93%	0.81%			
Morgan Stanley Co International PLC	4PQUHN3JPFGFNF3BB653	2.92%	1.12%			
HSBC Bank PLC	MP6I5ZYZBEU3UXPYFY54	2.75%	0.80%			

The percentage in the above table refers to the proportion of the total volume of trades executed on the trading venue as percentage of the total in that asset class.



#### 3. Annual Top-five Execution Venue Reporting for activity of Execution of orders on behalf of clients

Class of instrument		Debt instruments - Money Market Instruments ("MMI")				
Notification if < 1 average trade per business day in the previous year		Yes				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that classProportion of Percentage of passive ordersPercentage of aggressive orders			Percentage of directed orders	
TD Securities Limited	H71H6FPHX49CGFTF4J23	59.29%	14.81%	-	-	-
Tradeweb Europe Limited	TREU (MIC code)	34.47%	77.78%	-	-	-
The Toronto Dominion Bank	PT3QB789TSUIDF371261	6.03%	2.47%	-	-	-
Citibank N.A. (London Branch)	E57ODZWZ7FF32TWEFA76	0.10%	1.85%	-	-	-
HSBC Bank PLC	MP6I5ZYZBEU3UXPYFY54	0.05%	0.62%	-	-	-

The priority of the execution criteria when transacting Money Market Instruments ('MMI') is typically:

- Priority 1: Price, nature and size of the client order, likelihood of execution and settlement.
- Priority 2: Speed of execution.

MMIs are not generally centrally organised and, for many non-government debt issues, are less liquid markets. Due to the large variance in liquidity across fixed income it may be necessary in the illiquid markets to consider likelihood of execution as the highest priority. However, this does not mean price is not taken into consideration. If liquidity is available and a price comparison is provided for the size of trade concerned, AXA IM GS will execute the order with the execution venue that provides the most competitive overall price.

Where possible, AXA IM GS has used independent TCA providers to help the Firm in its monitoring of execution services provided by its counterparties with whom it executes clients' orders. Regardless of whether a TCA was available or not, AXA IM GS established controls regarding the general principles of competing quotes and achieving best price execution, and if exceptions were identified, these were either explained or remediated as appropriate.

Included in the top 5 table above is one trading venue, Tradeweb London, where the Firm uses the trading venue to select a counterparty. The top 5 counterparties used when trading on these respective trading venues are disclosed below. The execution criteria disclosed above for this asset class apply equally when trading on a trading venue.



Class of instrument		Debt instruments - Money Market Instruments ("MMI") - Tradeweb Europe Limited disclosure			
Notification if < 1 average trade per business day in the previous year		Yes			
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class		
TD Securities Limited	H71H6FPHX49CGFTF4J23	14.88%	6.79%		
Danske Bank SAS	MAES062Z2104RZ2U7M96	10.23%	6.79%		
Barclays Bank PLC	G5GSEF7VJP5I7OUK5573	4.08%	13.58%		
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	3.05%	16.67%		
Morgan Stanley Co International PLC	4PQUHN3JPFGFNF3BB653	1.26%	6.17%		

The percentage in the above table refers to the proportion of the total volume of trades executed on the trading venue as percentage of the total in that asset class.



### 3. Annual Top-five Execution Venue Reporting for activity of Execution of orders on behalf of clients

Class of instrument	Currency Derivatives - Swaps, forwards, and other currency derivatives (collectively, "Over-the-Counter Derivatives" or "OTC Derivatives")					
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders*
Reuters Transaction Services Limited (FXAII)	TRAL (MIC code)	44.99%	45.86%	-	-	15.62%*
Financial & Risk Transaction Services Ireland Limited (FRTSIL)	FXRQ (MIC code)	41.62%	49.15%	-	-	15.07%*
Barclays Bank PLC	G5GSEF7VJP5I7OUK5573	6.18%	1.06%	-	-	-
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	1.47%	0.48%	-	-	-
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	1.02%	0.58%	-	-	-

\*The percentage of directed/passive/aggressive orders shown in the above table represents the percentage of trades with respect to all trades executed or placed with that counterparty as opposed to the percentage of all trades with respect to asset class.

AXA IM GS has processes and controls to manage the fairness of OTC Derivative prices by gathering market data used for OTC Derivatives' price estimation and, where possible, by comparing with similar or comparable products. Obtaining the best price will be a key consideration for each client order. However, other criteria viewed by AXA IM GS as critical to the success of concluding an OTC Derivative client order will also be decisive in determining the relative significance of the execution factors, for example counterparty's collateral or margin requirement policy and the ease of closing or restructuring a trade with a counterparty.

Where possible, AXA IM GS has used independent TCA providers to help the Firm in its monitoring of execution services provided by its counterparties with whom it executes clients' orders. Regardless of whether a TCA was available or not, AXA IM GS established controls regarding the general principles of competing quotes and achieving best price execution, and if exceptions were identified, these were either explained or remediated as appropriate.

Most of the FX trades are executed electronically via the FXAII which is used as a multilateral trading facility and execution management system.

Included in the top 5 table above two are trading venues, Reuters Transactions Services (FXAII), where the Firm uses the trading venue to select a counterparty. FXAII onboarded in 2019 foreign exchange trading clients to its European trading facility to continue providing services to its clients based in the European Union regardless of the outcome of Brexit. The top 5 counterparties used when trading on these respective trading venues are disclosed below. The execution criteria disclosed above for this asset class apply equally when trading on a trading venue.



Class of instrument		Currency Derivatives - Swaps, forwards, and other currency derivatives (collectively, "Over- the-Counter Derivatives" or "OTC Derivatives") - Reuters Transaction Services Limited disclosure			
Notification if < 1 average trade per business day in the previous year		Yes			
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class		
BNP Paribas SA	R0MUWSFPU8MPRO8K5P83	17.51%	14.61%		
Barclays Bank PLC	G5GSEF7VJP5I7OUK5573	11.36%	8.29%		
Barclays Bank Ireland PLC	2G5BKIC2CB69PRJH1W31	4.45%	4.25%		
NatWest Markets PLC	RR3QWICWWIPCS8A4S074	3.91%	2.07%		
Société Générale SA	O2RNE8IBXP4R0TD8PU41	3.73%	3.08%		

The percentage in the above table refers to the proportion of the total volume of trades executed on the trading venue as percentage of the total in that asset class.

Class of instrument		Currency Derivatives - Swaps, forwards, and other currency derivatives (collectively, "Over- the-Counter Derivatives" or "OTC Derivatives") - Financial & Risk Transaction Services Ireland Limited disclosure			
Notification if < 1 average trade per business day in the previous year		Yes			
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class		
BNP Paribas SA	R0MUWSFPU8MPRO8K5P83	10.83%	7.97%		
Société Générale SA	O2RNE8IBXP4R0TD8PU41	8.23%	4.14%		
Barclays Bank PLC	G5GSEF7VJP5I7OUK5573	4.14%	3.67%		
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	3.79%	2.66%		
Goldman Sachs International	W22LROWP2IHZNBB6K528	3.62%	3.93%		

The percentage in the above table refers to the proportion of the total volume of trades executed on the trading venue as percentage of the total in that asset class.



# 3. Annual Top-five Execution Venue Reporting for activity of Execution of orders on behalf of clients

Class of instrument		Securitized Derivatives - Warrants and Certificate Derivatives				
Notification if < 1 average trade per business day in the previous year		Yes				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	<u> </u>			Percentage of aggressive orders	Percentage of directed orders
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	42.73%	36.36%	-	-	-
Cambridge International Securities LLC	213800DEOKAPFJYDBA37	25.82%	27.27%	-	-	-
Bank of America Merrill Lynch International Limited	EYKN6V0ZCB8VD9IULB80	22.78%	18.18%	-	-	-
Mizuho International PLC	213800HZ54TG54H2KV03	8.50%	9.09%	-	-	-
BMO Capital Markets Limited	L64HM9LHPDOS1B9HJC68	0.16%	9.09%	-	-	-

AXA IM GS has processes and controls to manage the fairness of OTC Derivative prices by gathering market data used for OTC Derivatives' price estimation and, where possible, by comparing with similar or comparable products. Obtaining the best price will be a key consideration for each client order. However, other criteria viewed by AXA IM GS as critical to the success of concluding an OTC Derivative client order will also be decisive in determining the relative significance of the execution factors, for example counterparty's collateral or margin requirement policy and the ease of closing or restructuring a trade with a counterparty.



# 3. Annual Top-five Execution Venue Reporting for activity of Execution of orders on behalf of clients

Class of instrument		Other instruments						
Notification if < 1 average trade per business day in the previous year		Yes	Yes					
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders		
JP Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	100%	100%	-	-	-		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		

The above table on 'other instruments' relates to trades of volatility indexes, which have limited market volume; this includes futures on VIX indexes. AXA IM GS has established controls regarding the general principles of competing quotes and achieving best price execution, and if exceptions were identified, these were either explained or remediated as appropriate.



Class of instrument		Equities - Shares and Depositary Receipts - Tick size liquidity band 1 and 2 (from 0 to 79 trades per day)				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	с			Percentage of directed orders	
Jefferies International Limited	S5THZMDUJCTQZBTRVI98	11.32%	3.39%	-	-	-
Peel Hunt LLP	5493007DWN0R4YBM4C84	9.12%	22.42%	-	-	-
Nplus1 Singer Capital Markets Limited	213800ITO7QMNQ9SFG53	9.08%	9.12%	-	-	-
Morgan Stanley Co International PLC	4PQUHN3JPFGFNF3BB653	6.48%	0.40%	-	-	-
Shore Capital Stockbrokers Limited	2138009KZO3MK7TV6372	4.73%	1.84%	-	-	-

Price and size of a client order are the dominant execution factors in the equity trading process. AXA IM GS selects from the range of equity execution strategies that are available to connect with appropriate counterparties and to maximise liquidity or, where relevant, to minimise the impact on price of a relatively large order. Where possible, AXA IM GS uses program trades to transmit a significant number of orders where a simultaneous transaction can be executed to increase efficiency and reduce costs. In this scenario, AXA IM GS use their pre-trade analysis tools to review general liquidity parameters to help guide the required execution strategy. Examples of where AXA IM GS may use program trades include new money for clients, dealing with client outflows or implementing asset allocation changes.

The priority of the execution criteria when transacting equity instruments is typically:

- Priority 1: Price and size of the client order, as well as expected market impact.
- Priority 2: Direct execution costs, speed of execution, likelihood of execution and settlement, nature of the client order.



( Jass of instrument		Equities - Shares and Depositary Receipts - Tick size liquidity bands 3 and 4 (from 80 to 1999 trades per day)				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
J&E Davy	63540061DPCBNMCGRY22	8.23%	1.99%	-	-	-
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	6.89%	5.08%	-	-	-
Joh. Berenberg, Gossler &Co. KG	529900UC2OD7II24Z667	6.85%	4.47%	-	-	-
Numis Securities Limited	213800P3F4RT97WDSX47	6.63%	9.10%	-	-	-
Peel Hunt LLP	5493007DWN0R4YBM4C84	6.18%	7.86%	-	-	2.20%*

\*The percentage of directed/passive/aggressive orders shown in the above table represents the percentage of trades with respect to all trades executed or placed with that counterparty as opposed to the percentage of all trades with respect to asset class.

Price and size of a client order are the dominant execution factors in the equity trading process. AXA IM GS selects from the range of equity execution strategies that are available to connect with appropriate counterparties and to maximise liquidity or, where relevant, to minimise the impact on price of a relatively large order. Where possible, AXA IM GS uses program trades to transmit a significant number of orders where a simultaneous transaction can be executed to increase efficiency and reduce costs. In this scenario, AXA IM GS use their pre-trade analysis tools to review general liquidity parameters to help guide the required execution strategy. Examples of where AXA IM GS may use program trades include new money for clients, dealing with client outflows or implementing asset allocation changes.

The priority of the execution criteria when transacting equity instruments is typically:

- Priority 1: Price and size of the client order, as well as expected market impact.
- Priority 2: Direct execution costs, speed of execution, likelihood of execution and settlement, nature of the client order.



Class of instrument Equities - Shares and Depositary Receipts - Tick size liquidity bands 5 and 6 (from 2000 t		•	day)			
Notification if < 1 average trade per busines	s day in the previous year	No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders*
Jefferies International Limited	S5THZMDUJCTQZBTRVI98	9.89%	7.10%	-	-	-
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	9.27%	20.33%	-	-	-
J.P. Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	8.95%	5.43%	-	-	0.09%*
Deutsche Bank Aktiengesellschaft	7LTWFZYICNSX8D621K86	8.42%	4.08%	-	-	-
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	7.24%	7.02%	-	-	0.08%*

\*The percentage of directed/passive/aggressive orders shown in the above table represents the percentage of trades with respect to all trades executed or placed with that counterparty as opposed to the percentage of all trades with respect to asset class.

Price and size of a client order are the dominant execution factors in the equity trading process. AXA IM GS selects from the range of equity execution strategies that are available to connect with appropriate counterparties and to maximise liquidity or, where relevant, to minimise the impact on price of a relatively large order. Where possible, AXA IM GS uses program trades to transmit a significant number of orders where a simultaneous transaction can be executed to increase efficiency and reduce costs. In this scenario, AXA IM GS use their pre-trade analysis tools to review general liquidity parameters to help guide the required execution strategy. Examples of where AXA IM GS may use program trades include new money for clients, dealing with client outflows or implementing asset allocation changes.

The priority of the execution criteria when transacting equity instruments is typically:

- Priority 1: Price and size of the client order.
- Priority 2: Direct execution costs, speed of execution, likelihood of execution and settlement, nature of the client order.



Class of instrument		Currency Derivatives - Futures and options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders*
Goldman Sachs International	W22LROWP2IHZNBB6K528	55.42%	64.10%	-	-	6.54%*
JP Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	41.83%	25.64%	-	-	-
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	2.75%	10.26%	-	-	-
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

\*The percentage of directed/passive/aggressive orders shown in the above table represents the percentage of trades with respect to all trades executed or placed with that counterparty as opposed to the percentage of all trades with respect to asset class.

The execution factors (other than price) are applied to generate a shortlist of appropriate counterparties for a particular client order. Price is then typically used to select a counterparty, unless other factors are deemed more important by the Firm in order to deliver a better client outcome. For example, in transacting a listed derivative the existence of a 'give-up' agreement with relevant counterparties may prevail.

The Firm only transmitted orders to the above listed two counterparties because the Firm considers this arrangement delivers the best results for its clients, taking into the account the execution factors set out below.

Where possible, the Firm usually selects based on price from a shortlist of appropriate counterparties identified by the Firm to be the most competitive. The priority of the execution criteria when transacting listed currency derivatives is typically:

- Priority 1: Price, speed of execution, likelihood of execution and settlement, size of the order and nature of the client order.
- Priority 2: Direct execution costs.

AXA IM GS has established controls regarding the general principles of competing quotes and achieving best price execution, and if exceptions were identified, these were either explained or remediated as appropriate.



Class of instrument		Equity Derivatives - Futures and Options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Goldman Sachs International	W22LROWP2IHZNBB6K528	63.09%	61.60%	-	-	-
JP Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	36.31%	36.88%	-	-	-
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	0.60%	1.52%	-	-	-
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

The execution factors (other than price) are applied to generate a shortlist of appropriate counterparties for a particular client order. Price is then typically used to select a counterparty, unless other factors are deemed more important by the Firm in order to deliver a better client outcome. For example, in transacting a listed derivative the existence of a 'give-up' agreement with relevant counterparties may prevail.

Where possible, the Firm usually selects based on price from a shortlist of appropriate counterparties identified by the Firm to be the most competitive. The priority of the execution criteria when transacting listed equity derivatives is typically:

- Priority 1: Price, speed of execution, likelihood of execution and settlement, size of the order and nature of the client order.
- Priority 2: Direct execution costs.

AXA IM GS has established controls based on specific criteria regarding the general principles of competing quotes and achieving best price execution, and if exceptions were identified, these were either explained or remediated as appropriate.



Class of instrument		Interest rates derivatives - Futures and Options admitted to trading on a trading venue				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	76.62%	76.13%	-	-	-
UBS AG London Branch	BFM8T61CT2L1QCEMIK50	10.21%	8.27%	-	-	-
JP Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	6.14%	0.60%	-	-	-
UBS Limited	REYPIEJN7XZHSUI0N355	2.82%	4.05%	-	-	-
UBS Europe SE	5299007QVIQ7IO64NX37	2.22%	9.88%	-	-	-

The execution factors (other than price) are applied to generate a shortlist of appropriate counterparties for a particular client order. Price is then typically used to select a counterparty, unless other factors are deemed more important by the Firm in order to deliver a better client outcome. For example, in transacting a listed derivative the existence of a 'give-up' agreement with relevant counterparties may prevail.

Where possible, the Firm usually selects based on price from a shortlist of appropriate counterparties identified by the Firm to be the most competitive. The priority of the execution criteria when transacting listed equity derivatives is typically:

- Priority 1: Price, speed of execution, likelihood of execution and settlement, size of the order and nature of the client order.
- Priority 2: Direct execution costs.

AXA IM GS has established controls based on specific criteria regarding the general principles of competing quotes and achieving best price execution, and if exceptions were identified, these were either explained or remediated as appropriate.



Class of instrument		Contracts for Difference ("CFD")				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders*
BNP Paribas SA	R0MUWSFPU8MPRO8K5P83	33.22%	35.39%	-	-	100.00%*
Crédit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	19.00%	19.60%	-	-	100.00%*
JP Morgan Chase Bank National Association	7H6GLXDRUGQFU57RNE97	18.50%	16.27%	-	-	100.00%*
UBS AG London Branch	BFM8T61CT2L1QCEMIK50	13.77%	14.32%	-	-	100.00%*
Bofa Securities Europe SA	549300FH0WJAPEHTIQ77	12.79%	11.74%	-	-	100.00%*

\*The percentage of directed/passive/aggressive orders shown in the above table represents the percentage of trades with respect to all trades executed or placed with that counterparty as opposed to the percentage of all trades with respect to asset class.

On this asset class, the list of AXA IM GS authorised counterparties is composed of five brokers, being the entities listed above. Such list is determined by AXA IM GS's clients, 100% of AXA IM GS's orders on CFD being directed to those five brokers. Clients who communicate specific instructions are informed that AXA IM GS will comply with them. As noted in the firm's best execution policy. In such cases, AXA IM GS only apply the principles of best execution (and the execution factors) subjected to the client specific instructions.

The priority of the execution criteria when transacting CFDs is typically:

- Priority 1: Price and size of the client order.
- Priority 2: Direct execution costs, speed of execution, likelihood of execution and settlement, nature of the client order.



( lass of instrument		Exchange traded products (Exchange traded funds, exchange traded notes and exchange traded commodities)				
Notification if < 1 average trade per business day in the previous year		Yes				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Canaccord Genuity Limited	ZBU7VFV5NIMN4ILRFC23	52.90%	43.44%	-	-	-
BMO Capital Markets Limited	L64HM9LHPDOS1B9HJC68	34.78%	44.26%	-	-	-
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	9.31%	6.56%	-	-	-
Royal Bank of Canada	ES7IP3U3RHIGC71XBU11	3.01%	5.74%	-	-	-
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

The execution factors (other than price) are applied to generate a shortlist of appropriate counterparties for a particular client order. Price is then typically used to select a counterparty, unless other factors are deemed more important by the Firm in order to deliver a better client outcome. For example, where risk or settlement risk counterparty is important to minimise, these factors may prevail.

The priority of the execution criteria when transacting Exchange-traded products is typically:

- Priority 1: Price and size of the client order.
- Priority 2: Direct execution costs, speed of execution, likelihood of execution and settlement, nature of the client order.

AXA IM GS has established controls based on specific criteria regarding the general principles of competing quotes and achieving best price execution, and if exceptions were identified, these were either explained or remediated as appropriate.



Class of instrument		Other instruments				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class	Percentage of passive orders	Percentage of aggressive orders	Percentage of directed orders
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	12.87%	28.01%	-	-	-
BMO Capital Markets Limited	L64HM9LHPDOS1B9HJC68	8.06%	4.92%	-	-	-
Jefferies International Limited	S5THZMDUJCTQZBTRVI98	7.77%	4.90%	-	-	-
William Blair International, Ltd	213800D836LM6FFK9U60	7.52%	2.63%	-	-	-
Royal Bank of Canada	ES7IP3U3RHIGC71XBU11	7.48%	4.95%	-	-	-

The table includes equities traded by the Firm which have not been classified into a tick size liquidity band (including non - EEA equities).

AXA IM GS has established controls regarding the general principles of competing quotes and achieving best price execution, and if exceptions were identified, these were either explained or remediated as appropriate.

Price and size of a client order are the dominant execution factors in the equity trading process. AXA IM GS selects from the range of equity execution strategies that are available to connect with appropriate counterparties and to maximise liquidity or, where relevant, to minimise the impact on price of a relatively large order. Where possible, AXA IM GS uses program trades to transmit a significant number of orders where a simultaneous transaction can be executed to increase efficiency and reduce costs. In this scenario, AXA IM GS use their pre-trade analysis tools to review general liquidity parameters to help guide the required execution strategy. Examples of where AXA IM GS may use program trades include new money for clients, dealing with client outflows or implementing asset allocation changes.

The priority of the execution criteria when transacting equity instruments is typically:

- Priority 1: Price and size of the client order, as well as expected market impact.
- Priority 2: Direct execution costs, speed of execution, likelihood of execution and settlement, nature of the client order.



Class of instrument	Class of instrument		Equities - Shares and Depositary Receipts			
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class			
EquiLend	EQIE (MIC Code)	50.00%	47.50%			
Citigroup Global Markets Limited	XKZZ2JZF41MRHTR1V493	7.90%	6.69%			
ABN AMRO Bank N.V.	BFXS5XCH7N0Y05NIXW11	6.59%	3.80%			
Barclays Capital Securities Limited	K9WDOH4D2PYBSLSOB484	5.27%	10.64%			
Natixis SA	KX1WK48MPD4Y2NCUIZ63	4.23%	4.16%			

AXA IM GS executes securities financing transactions either directly on a regulated trading platform, which provides access to multiple counterparties, or directly with counterparties outside of a regulated trading venue.

EquiLend Europe Limited is a multi-asset class trading platform for security lending transactions. AXA IM GS uses this platform to access the security lending borrowing demand from approved banking counterparties.

AXA IM GS takes into account the following execution factors when executing a Security Financing Transaction, given that the priority of the execution criteria is typically:

- Priority 1: Price and order characteristics (including but not limited to: size, relative demand of the transaction, duration of the trade).
- Priority 2: Nature of the transaction, including whether or not such transactions are subject to any regulatory requirements, underlying portfolio characteristics and objectives, client characteristics, type of financial instrument to be traded.
- Priority 3: cost effectiveness of any related clearing and settlement; availability of execution venue or platform and number of borrowing counterparties available.



Class of instrument		Equities - Shares and Depositary Receipts - EquiLend Europe Limited disclosure				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class			
Crédit Suisse Securities (Europe) Limited	DL6FFRRLF74S01HE2M14	19.48%	19.76%			
Natixis SA	KX1WK48MPD4Y2NCUIZ63	19.32%	14.23%			
HSBC Bank PLC	MP6I5ZYZBEU3UXPYFY54	9.48%	6.21%			
Barclays Capital Securities Limited	K9WDOH4D2PYBSLSOB484	3.77%	2.57%			
Goldman Sachs International	W22LROWP2IHZNBB6K528	2.06%	1.90%			

The percentage in the above table refers to the proportion of the total volume of trades executed on the trading venue as percentage of the total in that asset class.



Class of instrument		Debt instruments			
Notification if < 1 average trade per business day in the previous year		No			
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class		
EquiLend	EQIE (MIC Code)	25.63%	56.17%		
Barclays Bank PLC	G5GSEF7VJP5I7OUK5573	10.82%	9.11%		
Züercher Kantonalbank	165GRDQ39W63PHVONY02	5.77%	5.43%		
BNP Paribas SA	R0MUWSFPU8MPRO8K5P83	5.37%	2.62%		
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	4.52%	3.16%		

AXA IM GS executes securities financing transactions either directly on a regulated trading platform, which provides access to multiple counterparties, or directly with counterparties outside of a regulated trading venue.

EquiLend Europe Limited is a multi-asset class trading platform for security lending transactions. AXA IM GS uses this platform to access the security lending borrowing demand from approved banking counterparties.

AXA IM GS takes into account the following execution factors when executing a Security Financing Transaction, given that the priority of the execution criteria is typically:

- Priority 1: Price and order characteristics (including but not limited to: size, relative demand of the transaction, duration of the trade).
- Priority 2: Nature of the transaction, including whether or not such transactions are subject to any regulatory requirements, underlying portfolio characteristics and objectives, client characteristics, type of financial instrument to be traded.
- Priority 3: cost effectiveness of any related clearing and settlement; availability of execution venue or platform and number of borrowing counterparties available.



Class of instrument		Debt instruments - EquiLend Europe Limited disclosure				
Notification if < 1 average trade per business day in the previous year		No				
Top five execution venues ranked in terms of trading volumes (descending order)	LEI (unless otherwise stated)	Proportion of volume traded as a percentage of total in that class	Proportion of orders executed as percentage of total in that class			
Merrill Lynch International	GGDZP1UYGU9STUHRDP48	6.34%	13.67%			
Goldman Sachs International	W22LROWP2IHZNBB6K528	4.33%	7.40%			
JP Morgan Securities PLC	K6Q0W1PS1L1O4IQL9C32	4.00%	8.41%			
Barclays Bank PLC	G5GSEF7VJP5I7OUK5573	3.25%	6.22%			
BNP Paribas SA	R0MUWSFPU8MPRO8K5P83	3.03%	5.88%			

The percentage in the above table refers to the proportion of the total volume of trades executed on the trading venue as percentage of the total in that asset class.



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