

Vanguard Asset Management

Jan 01, 2019 to Dec 31, 2019

Investment service – portfolio management/reception and transmission – professional clients

Class of instrument	Debt instruments – money market
Notifications if < 1 average trade per business day in the previous year	N

Top five execution venues ranked in terms of trading volumes (descending order)	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
NATIXIS SA	29.21%	25.57%	0.00%	0.00%	0.00%
CREDIT AGRICOLE CORPORATE & INVESTM	29.05%	26.24%	0.00%	0.00%	0.00%
COOPERATIEVE RABOBANK UA	21.82%	25.57%	0.00%	0.00%	0.00%
DZ BANK AG LONDON	10.79%	8.37%	0.00%	0.00%	0.00%
TRADEWEB UK (FIX)	5.22%	6.79%	0.00%	0.00%	0.00%

This document is an operational communication and should not be regarded as a financial promotion.