

FLOW OF FUNDS **REPORT**

TUYID Q4-2023





March 2024

Dear Readers.

We are happy to present the Flow of Funds Report for the fourth quarter of 2023. Our report offers a detailed insight into the institutional ownership by investment type and regions as well as top buyers and sellers in the Turkish market. We also provide key investor hubs for roadshows and trust the report will be an important asset in IR planning and investor targeting.

The Hungary BUX (+38.4%) ended the fourth quarter above the Turkey BIST (+35.6%), taking over as the strongest performer of the peer group. The Poland WIG continued to trend upwards (+30.8%) while the Russian RTS (+12.5%) also began an upward trend over the last quarter.

Aggregate net outflows were experienced across all markets, with Russia, once again seeing the largest outflows (-\$228.6M). Poland received the largest inflows (+\$5481.8M).

Active investors contributed to net inflows of +\$81.0M, primarily driven by buying in the Financials Sector (+\$69.3M). The second largest inflows by Active investors were attributed to the Industrials Sector (+\$47.6M). Passive investors contributed to net inflows of +\$187.8M, of which majority of the sectors received inflows, except for Consumer Goods (-\$14,8M) and Healthcare (-\$1.6M).

The orientation remains skewed towards Passive investors, with 68% (+6pp) of Turkish funds being held by Passive investors. Index investors continue to be the largest investor in the Turkish market (\$5,609.4M), followed by Agg Gr./Growth (\$5,117.5M). GARP investors were the largest detractors over the quarter (-\$27.5M), driven by **Schroder Investment Management, LTD & East Capital Asset Management AB.**

Outside of Turkey, Oslo (Norway) is the largest invested city (\$3,864.7M), closely followed by London (United Kingdom) (\$1,267.4M). In terms of number of investors per city, London continues to lead the ranking with 85 investors, followed by New York (36) and Istanbul (25).

This report is prepared quarterly by S&P Global, in cooperation with TÜYİD, using S&P Global's database. We look forward to any feedback you may have.

S&P Global TÜYİD Turkish IR Society

Director, Shareholder Intelligence EMEA Chair

Frederik Frank Başak Öge

Acknowledgements: We express our gratitude to the S&P Global Issuer Solutions team and the TÜYİD Turkish IR Society.

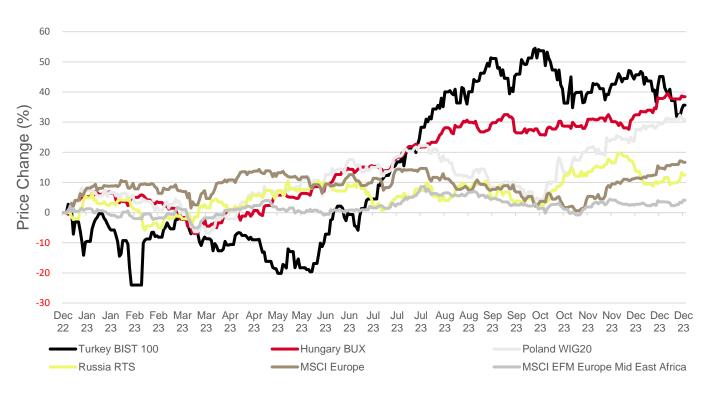
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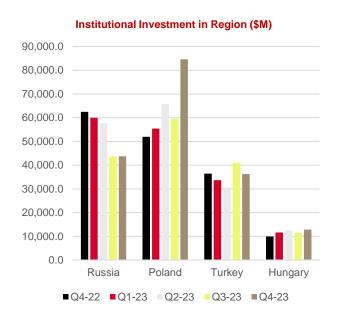
Price performance:

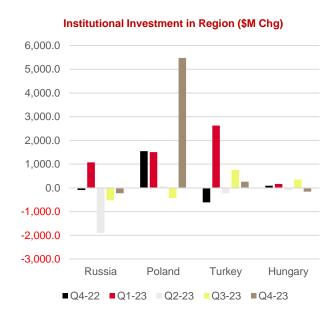
The Hungary BUX (+38.4%) ended the fourth quarter above the Turkey BIST (+35.6%), taking over as the strongest performer of the peer group. The Poland WIG continued to trend upwards (+30.8%) while the Russian RTS (+12.5%) also began an upward trend over the last quarter.



Inflows and Outflows:

Aggregate net outflows were experienced across the below markets, with Russia, once again seeing the largest outflows (-\$228.6M). Poland received the largest inflows (+\$5481.8M).



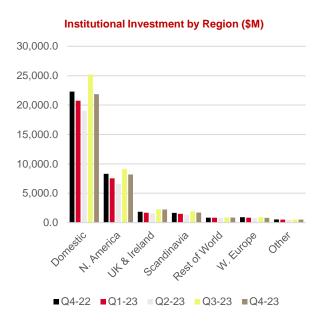


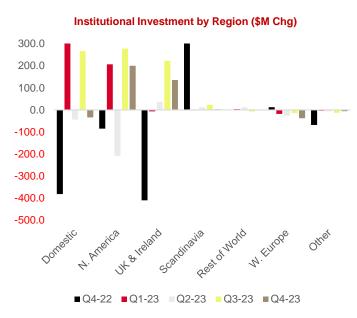




Investment by Investor Region:

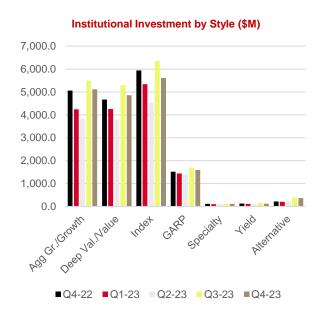
The net inflows (+\$261M) in the Turkish market are broken down by geographic regions below. North American investors (+\$200.3) continued to contribute to inflows. Domestic investors contributed to outflows (-\$33.9M) but continue to be the largest holders in the Turkish market (\$21,858.2M), followed by North America (\$8,205.9M).

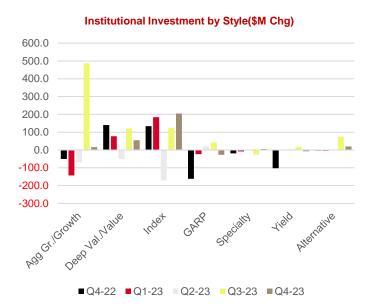




Investment by Style:

Index investors continue to be the largest investor in the Turkish market (\$5,609.4M), followed by Agg Gr./Growth (\$5,117.5M). GARP investors were the largest detractors over the quarter (-\$27.5M), driven by **Schroder Investment Management, LTD & East Capital Asset Management AB.**









Top Active Holders, Buyers & Sellers

TOR HOLDERS	0	Orale	T	Equity Assets	Value	Change	% D==((=1)=	
TOP HOLDERS	Country	Style	Turnover	(\$M)	(\$M)	(\$M)	Portfolio	Chg
Norges Bank Investment Management (Norway)	Norway	Value	Low	1,088,143.1	1,249.0	0.0	0.1	0.0
abrdn Investment Management, LTD	United Kingdom	Growth	Low	90,907.8	835.3	-0.6	0.9	-0.1
GQG Partners, LLC	United States	Growth	High	94,824.3	313.6	6.4	0.3	2.1
J.P. Morgan Asset Management (UK), LTD	United Kingdom	Growth	Low	119,074.2	217.3	124.8	0.2	134.9
California Public Employees Retirement System	United States	Growth	Low	136,820.9	169.7	0.0	0.1	0.0
CPP Investment Board	Canada	Growth	Low	136,700.5	168.3	0.0	0.1	0.0
Dalal Street, LLC	United States	Alternative	Medium	517.8	152.3	0.0	29.4	0.0
Capital Research & Management Company (U.S.)	United States	Value	Low	105,834.1	144.7	0.0	0.1	0.0
Schroder Investment Management, LTD	United Kingdom	GARP	Low	151,531.0	121.3	-17.3	0.1	-12.5
GIC Asset Management Pte., LTD	Singapore	Value	Low	72,321.2	107.5	0.0	0.1	0.0
					0.470.4	4400		

								70
TOP BUYERS	Country	Style	Turnover	Equity Assets	Value	Change		
TOP BUTERS	Country	Style	rumover	(\$M)	(\$M)	(\$M)	POILIOIIO	Chg
J.P. Morgan Asset Management (UK), LTD	United Kingdom	Growth	Low	119,074.2	217.3	124.8	0.2	134.9
Invesco Advisers, Inc.	United States	Growth	Low	254,712.1	52.9	47.7	0.0	910.6
RWC Asset Advisors (US), LLC	United States	Alternative	High	2,909.7	91.0	19.3	3.1	26.9
Eaton Vance Management	United States	Value	Low	68,943.8	14.7	14.4	0.0	3,753.4
Origin Asset Management, LLP	United Kingdom	Value	Medium	3,204.0	86.7	13.4	2.7	18.2
Victory Capital Management, Inc.	United States	GARP	Medium	109,369.9	34.1	11.6	0.0	51.2
Columbia Threadneedle Management, LTD	United Kingdom	Value	Medium	21,473.6	29.9	10.2	0.1	51.9
Robeco Institutional Asset Management BV	Netherlands	Value	Medium	59,938.8	99.5	9.1	0.2	10.0
American Century Investment Management, Inc.	United States	Growth	Medium	170,663.0	92.2	7.6	0.1	9.0
William Blair & Company, LLC (Investment Management)	United States	Agg. Growth	Low	70,274.3	9.2	6.4	0.0	229.8

								- %
TOP SELLERS	Country	Style	Turnover	Equity Assets	Value	Change	% Portfolio	Portfolio
	Country	Style		(\$M)	(\$M)	(pivi)	Portfolio	Chg
DWS Investment GmbH	Germany	Value	Medium	146,400.3	49.6	-41.1	0.0	-45.3
Jupiter Asset Management, LTD (U.K.)	United Kingdom	Growth	Medium	36,795.9	0.1	-24.8	0.0	-99.7
Grantham Mayo Van Otterloo & Company, LLC	United States	Value	Medium	31,424.6	38.6	-21.1	0.1	-35.3
Columbia Threadneedle Investments (U.S.)	United States	Value	Low	311,712.2	5.1	-17.7	0.0	-77.8
Schroder Investment Management, LTD	United Kingdom	GARP	Low	151,531.0	121.3	-17.3	0.1	-12.5
Driehaus Capital Management, LLC	United States	Agg. Growth	Very High	12,588.9	44.9	-16.9	0.4	-27.4
East Capital Asset Management AB	Sweden	GARP	Medium	1,066.3	60.2	-9.7	5.6	-13.9
Genesis Investment Management, LLP	United Kingdom	Growth	Medium	1,316.0	10.5	-8.3	0.8	-44.1
MFS International, LTD (Singapore)	Singapore	Growth	Low	7,433.9	19.2	-6.3	0.3	-24.6
Goldman Sachs Asset Management, L.P. (U.S.)	United States	GARP	Low	302,420.8	42.1	-5.6	0.0	-11.7
Includes Investors with EUM greater than \$100M; Excludes Passive/Index	nvestors				391.6	-168.8		

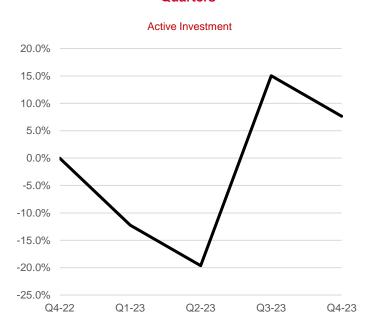
Sector Inflows/Outflows

Active \$M Change -100.0 0.0 100.0 Basic Materials Consumer Goods Consumer Services Energy Financials Healthcare Industrials Technology Utilities

% Change in Active Investment vs 5 Previous Quarters

727.5

264.3







Top Passive Holders, Buyers & Sellers

				Equity Assets	value	Change		% Portiono
TOP HOLDERS	Country	Style	Turnover	(\$M)	(\$M)	(\$M)	% Portfolio	Chg
The Vanguard Group, Inc.	United States	Index	Low	5,384,595.2	2,482.1	58.8	0.0	2.4
BlackRock Fund Advisors	United States	Index	Low	3,208,198.7	1,214.0	64.5	0.0	5.6
Dimensional Fund Advisors, L.P. (U.S.)	United States	Value	Low	493,091.1	709.8	-11.2	0.1	-1.5
BlackRock Advisors (U.K.), LTD	United Kingdom	Index	Low	280,903.3	497.5	4.4	0.2	0.9
Geode Capital Management, LLC	United States	Index	Low	1,109,203.0	226.0	14.4	0.0	6.8
State Street Global Advisors (SSgA)	United States	Index	Low	2,153,495.7	171.3	9.1	0.0	5.6
Charles Schwab Investment Management, Inc.	United States	Index	Low	480,204.3	170.7	-4.3	0.0	-2.5
State Street Global Advisors, LTD	United Kingdom	Index	Low	113,161.1	119.5	31.8	0.1	36.3
First Trust Advisors, L.P.	United States	Index	Medium	102,641.2	109.1	1.5	0.1	1.4
Acadian Asset Management, LLC	United States	Deep Value	High	33,981.8	92.3	-1.6	0.3	-1.7
					5,792.3	167.2		

TOP BUYERS	Country	Style	Turnover	Equity Assets (\$M)	Value (\$M)	Change (\$M)	% Portfolio	% Portfolio Chg
BlackRock Fund Advisors	United States	Index	Low	3,208,198.7	1,214.0	64.5	0.0	5.6
The Vanguard Group, Inc.	United States	Index	Low	5,384,595.2	2,482.1	58.8	0.0	2.4
State Street Global Advisors, LTD	United Kingdom	Index	Low	113,161.1	119.5	31.8	0.1	36.3
Northern Trust Investments, Inc.	United States	Index	Low	538,525.7	31.7	16.3	0.0	106.2
Geode Capital Management, LLC	United States	Index	Low	1,109,203.0	226.0	14.4	0.0	6.8
Invesco Capital Management, LLC	United States	Index	Low	447,907.4	38.2	13.9	0.0	57.1
State Street Global Advisors (SSgA)	United States	Index	Low	2,153,495.7	171.3	9.1	0.0	5.6
BlackRock Advisors (U.K.), LTD	United Kingdom	Index	Low	280,903.3	497.5	4.4	0.2	0.9
Legal & General Investment Management, LTD	United Kingdom	Index	Low	458,657.7	84.7	3.6	0.0	4.4
First Trust Advisors, L.P.	United States	Index	Medium	102,641.2	109.1	1.5	0.1	1.4

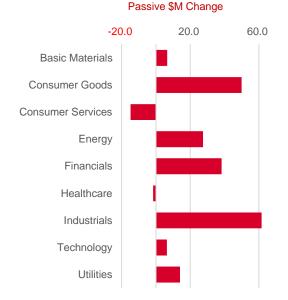
TOP SELLERS	Country	Style	Turnover	Equity Assets (\$M)	Value (\$M)	Change (\$M)	% Portfolio	% Portfolio Chg
Dimensional Fund Advisors, L.P. (U.S.)	United States	Value	Low	493,091.1	709.8	-11.2	0.1	-1.5
Global X Management Company, LLC	United States	Index	Low	42,702.9	5.6	-8.0	0.0	-58.9
Parametric Portfolio Associates, LLC	United States	GARP	Low	226,495.2	48.5	-5.9	0.0	-10.8
Charles Schwab Investment Management, Inc.	United States	Index	Low	480,204.3	170.7	-4.3	0.0	-2.5
Arrowstreet Capital, L.P.	United States	Deep Value	High	98,881.7	65.2	-2.5	0.1	-3.7
Acadian Asset Management, LLC	United States	Deep Value	High	33,981.8	92.3	-1.6	0.3	-1.7
Northern Trust Global Investments, LTD	United Kingdom	Index	Low	59,588.8	66.6	-1.6	0.1	-2.4
Van Eck Associates Corporation	United States	Index	Low	64,749.5	67.6	-1.1	0.1	-1.6
AQR Capital Management, LLC	United States	Alternative	Medium	57,212.9	11.6	-0.8	0.0	-6.7
State Street Global Advisors France S.A.	France	Index	Low	10,228.0	20.0	-0.8	0.2	-3.8
Includes Investors with EUM greater than \$100M; Exc	cludes Active Investors				1,257.8	-37.8		

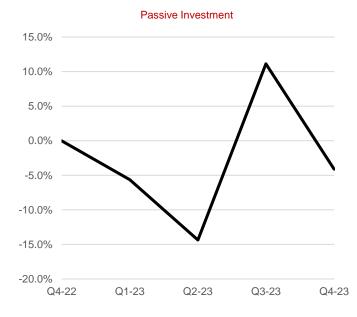
Sector Inflows/Outflows

% Change in Passive Investment vs 5 Previous Quarters

4,974.1

218.1









Road show:

Outside of Turkey, Oslo (Norway) is the largest invested city (\$3,864.7M), closely followed by London (United Kingdom) (\$1,267.4M). In terms of number of investors per city, London continues to lead the ranking with 85 investors, followed by New York (36) and Istanbul (25).

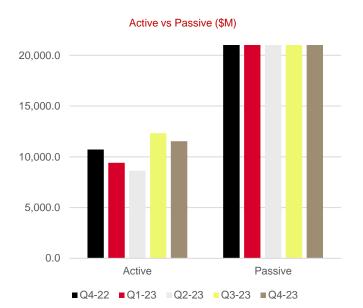
	wost invested			
Country / City	Total Equity Assets (\$M)	Value (\$M)	Activity (\$M)	# Firms
Turkey (Istanbul)	4,870.4	3,864.7	-33.9	25
Norway (Oslo)	1,149,129.3	1,267.4	-1.3	3
United Kingdom (London)	2,685,801.9	1,262.0	100.6	85
Australia (Melbourne)	83,724.6	789.7	0.0	3
United States (Fort Lauderdale)	98,666.3	314.0	6.4	3
Sweden (Stockholm)	347,311.9	294.4	-6.1	9
United States (Boston)	3,199,251.8	288.8	-29.5	14
United States (New York)	2,545,972.2	248.2	-10.6	36
United States (Los Angeles)	961,751.8	196.0	5.5	4
Singapore (Singapore)	148,098.8	192.7	-6.3	10
Canada (Toronto)	599,655.6	178.7	-0.2	9
Germany (Frankfurt am Main)	443,566.1	175.0	-41.6	11
United States (Sacramento)	136,820.9	169.7	0.0	1
Canada (Montreal)	96,214.8	123.9	-0.0	4
Switzerland (Zürich)	411,650.4	120.8	-1.4	13
Netherlands (Rotterdam)	82,351.2	109.8	9.5	2
United States (Kansas City)	177,504.4	92.2	7.6	2
Japan (Tokyo)	1,190,302.9	81.2	0.1	13
Poland (Warsaw)	21,360.2	76.8	-0.3	11
United States (San Antonio)	111,297.9	68.6	16.9	2
Excludes Passive/Index Investors		9,914.5	15.3	260

Most Invested

	Most Investors			
Country / City	Total Equity Assets (\$M)	Value (\$M)	Activity (\$M)	# Firms
United Kingdom (London)	2,685,801.9	1,262.0	100.6	85
United States (New York)	2,545,972.2	248.2	-10.6	36
Turkey (Istanbul)	4,870.4	3,864.7	-33.9	25
United States (Boston)	3,199,251.8	288.8	-29.5	14
Switzerland (Zürich)	411,650.4	120.8	-1.4	13
Japan (Tokyo)	1,190,302.9	81.2	0.1	13
Germany (Frankfurt am Main)	443,566.1	175.0	-41.6	11
Poland (Warsaw)	21,360.2	76.8	-0.3	11
Singapore (Singapore)	148,098.8	192.7	-6.3	10
Finland (Helsinki)	33,518.9	36.1	-3.1	10
Sweden (Stockholm)	347,311.9	294.4	-6.1	
Canada (Toronto)	599,655.6	178.7	-0.2	
France (Paris)	379,702.3	59.8	0.0	
South Korea (Seoul)	51,657.9	6.2	0.0	
Switzerland (Geneva)	154,169.9	62.1	-0.0	
United States (Chicago)	224,180.2	60.3	-10.6	
Denmark (Copenhagen)	148,886.4	56.3	6.1	
Belgium (Brussels)	98,887.9	50.4	3.4	
Ireland (Dublin)	53,173.0	48.0	-2.8	
Spain (Madrid)	67,610.4	11.9	-2.5	
Excludes Passive/Index Investors		7,174.3	-38.7	30

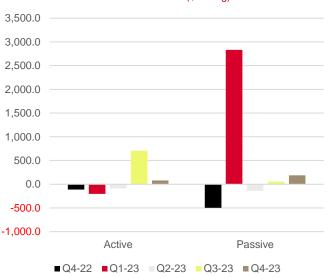
Active vs. Passive investors

Active investors contributed to inflows (+\$80.7M). Despite an increase by Active investors, Passive investors continue to hold the bulk of the Turkish market (68%).



Active vs Passive Split Active 32% Passive 68%

Active vs Passive (\$M Chg)







Top Holders, Buyers & Sellers - Corporate Debt

				FI Assets	Value	Change	%	Portfolio
TOP HOLDERS	Country	City	Turnover	(\$M)	(\$M)	(\$M)	Portfolio	Chg
Amundi (U.K.), LTD	United Kingdom	London	Very High	17,926.6	249.8	1.7	1.4	0.7
Goldman Sachs Asset Management International	United Kingdom	London	Very High	97,905.7	184.7	-49.2	0.2	-21.0
Pictet Asset Management, LTD	United Kingdom	London	High	7,010.9	116.7	-2.6	1.7	-2.1
TIAA-CREF Investment Management, LLC	United States	New York	Very High	198,343.5	98.3	0.0	0.0	0.0
Ninety One UK, LTD	United Kingdom	London	High	10,993.2	83.8	-4.2	0.8	-4.8
BlackRock Advisors (U.K.), LTD	United Kingdom	London	Low	257,801.0	61.7	-6.1	0.0	-8.9
Vontobel Asset Management AG (Switzerland)	Switzerland	Zürich	Low	11,300.9	61.5	-8.8	0.5	-12.5
Lord, Abbett & Co., LLC (Asset Management)	United States	Jersey City	High	135,681.7	60.0	-0.3	0.0	-0.5
RBC Global Asset Management (UK), LTD	United Kingdom	London	High	30,514.9	56.1	29.6	0.2	111.8
Bank Julius Baer & Co. AG	Switzerland	Zürich	Low	5,783.5	51.2	-0.3	0.9	-0.6
					1,023.7	-40.3		

TOP BUYERS	Country	Citv	Turnover	FI Assets (\$M)	Value (\$M)	Change (\$M)	% Portfolio	Portfolio Chg
RBC Global Asset Management (UK), LTD	United Kingdom	London	High	30,514.9	56.1	29.6	0.2	111.8
Aviva Investors Global Services, LTD (U.K.)	United Kingdom	London	Very High	42,206.2	12.0	11.6	0.0	2,519.5
Erste Asset Management GmbH	Austria	Vienna	Low	8,375.8	29.1	10.6	0.3	57.4
Schroder Investment Management, LTD	United Kingdom	London	Medium	47,147.5	37.9	10.4	0.1	37.8
Eaton Vance Management	United States	Boston	High	65,888.7	45.6	9.2	0.1	25.2
Aegon Asset Management (U.K.) PLC	United Kingdom	Edinburgh	Low	12,485.5	8.2	8.2	0.1	Buy-in
Muzinich & Co., LTD (London)	United Kingdom	London	Very High	12,847.1	29.2	6.9	0.2	31.3
Wellington Management Company, LLP	United States	Boston	Medium	185,632.1	34.3	6.9	0.0	25.3
Danske Bank Asset Management (Denmark)	Denmark	Kongens Lyngby	Medium	17,339.2	21.3	5.5	0.1	34.8
Macquarie Investment Management	United States	Philadelphia	Low	24,832.1	13.8	5.4	0.1	63.6
					297 /	104 3		

TOP SELLERS	Country	City	Turnover	FI Assets (\$M)	Value (\$M)	Change (\$M)	% Portfolio	% Portfolio Chg
Goldman Sachs Asset Management International	United Kingdom	London	Very High	97,905.7	184.7	-49.2	0.2	-21.0
TCW Investment Management Company, LLC	United States	Los Angeles	High	97,053.4	0.5	-16.4	0.0	-96.8
Vontobel Asset Management AG (Switzerland)	Switzerland	Zürich	Low	11,300.9	61.5	-8.8	0.5	-12.5
Baillie Gifford & Company, LTD	United Kingdom	Edinburgh	Low	7,176.6	8.2	-6.8	0.1	-45.2
Towarzystwo Funduszy Inwestycyjnych PZU S.A.	Poland	Warsaw	Medium	2,849.5	23.5	-6.3	0.8	-21.1
Bank of Singapore, LTD	Singapore	Singapore	Low	380.9	8.8	-6.1	2.3	-41.0
BlackRock Advisors (U.K.), LTD	United Kingdom	London	Low	257,801.0	61.7	-6.1	0.0	-8.9
Edmond de Rothschild (Suisse) S.A.	Switzerland	Geneva	Medium	450.2	11.6	-5.7	2.6	-32.8
abrdn Investment Management, LTD	United Kingdom	London	High	69,082.2	33.7	-4.3	0.0	-11.4
Ivo Capital Partners S.A.S	France	Paris	Medium	608.3	21.9	-4.3	3.6	-16.5
					416.0	-114.0		

Corporate Debt - City Analysis

	Most Invested			
Country / City	Total FI Assets (\$M)	Value (\$M)	Activity (\$M)	# Firms
United Kingdom (London)	1,234,991.4	1,128.9	7.9	51
United States (New York)	1,597,212.6	240.2	6.2	19
Switzerland (Zürich)	258,943.1	188.9	-9.6	14
United States (Boston)	1,736,050.2	165.4	16.7	8
France (Paris)	217,375.0	91.0	3.5	10
Germany (Frankfurt am Main)	184,948.8	74.4	-2.1	8
Denmark (Copenhagen)	60,635.5	70.6	3.5	5
Italy (Milan)	153,890.4	62.7	8.3	12
United States (Jersey City)	135,681.7	60.0	-0.3	1
Singapore (Singapore)	22,161.4	58.9	3.4	10
Austria (Vienna)	27,150.6	55.8	11.8	8
United States (San Francisco)	719,754.1	41.9	-0.3	3
United States (Chicago)	206,263.1	38.6	-2.6	5
United States (Bloomfield)	3,921.3	34.2	0.0	1
United States (Columbus)	102,791.9	31.8	0.0	1
United States (Charlotte)	366,962.1	31.3	0.0	2
Germany (Munich)	21,144.2	25.9	-0.1	4
Poland (Warsaw)	2,977.3	23.7	-6.3	2
United States (Baltimore)	158,719.7	23.3	2.1	1
Denmark (Kongens Lyngby)	17,339.2	21.3	5.5	1

Most Investors				
Country / City	Total FI Assets (\$M)	Value (\$M)	Activity (\$M)	# Firms
United Kingdom (London)	1,234,991.4	1,128.9	7.9	51
United States (New York)	1,597,212.6	240.2	6.2	19
Switzerland (Zürich)	258,943.1	188.9	-9.6	14
Italy (Milan)	153,890.4	62.7	8.3	12
France (Paris)	217,375.0	91.0	3.5	10
Singapore (Singapore)	22,161.4	58.9	3.4	10
Spain (Madrid)	37,145.6	6.8	-0.5	10
United States (Boston)	1,736,050.2	165.4	16.7	8
Germany (Frankfurt am Main)	184,948.8	74.4	-2.1	8
Austria (Vienna)	27,150.6	55.8	11.8	8
Denmark (Copenhagen)	60,635.5	70.6	3.5	5
United States (Chicago)	206,263.1	38.6	-2.6	5
Ireland (Dublin)	29,181.6	11.1	2.2	5
Germany (Munich)	21,144.2	25.9	-0.1	4
Switzerland (Geneva)	24,227.0	13.8	-5.0	4
Switzerland (Lugano)	2,793.4	2.3	0.9	4
United States (San Francisco)	719,754.1	41.9	-0.3	3
United Kingdom (Edinburgh)	21,384.4	18.1	1.2	3
Germany (Berlin)	3,532.1	4.4	-1.2	3
Finland (Helsinki)	12,173.7	4.2	0.0	3
		2,304.0	44.2	189





GLOSSARY

Institutional Investment Styles

Aggressive Growth – Investors in this category invest in companies that have very high revenue, EPS growth rates and multiples relative to the overall market. These companies usually do not pay any dividends and are at the early stages of growth. Aggressive Growth investors exhibit a higher portfolio turnover than other styles of investors.

Alternative – Primarily used to classify hedge funds that use various strategies that fall outside the traditional investment strategies that can be categorized as the above. A catch-all for lightly regulated investment vehicles that have the ability to "go-anywhere" and invest long or short in any type of security – equity, debt, commodity, options, currency, etc. Hedge funds seek to earn above market returns for their clients while at the same time controlling risk factors. Hedge funds have grown in prominence over the years as their returns net of fees (typically 2% management, 20% incentive) have outperformed mutual fund and pension managers performance. Recently, many hedge funds have gained notoriety as "activists" demanding change (leadership or strategic) at companies in North America, Europe and Asia.

Asset Allocation – Asset allocation managers allocate their investments among stocks, bonds, and cash equivalents, among others. It is primarily dictated by the various needs of clients and used by many smaller firms and banks.

Deep Value – Investors in this category employ an extreme style of value investing where they invest in companies with very low valuations versus their own historic valuation, and in relation to the overall market. Usually the companies or the industries they are in have been out of favour in the marketplace for an extended period of time.

GARP – These institutions seek to add growth stocks to their portfolios, but will not pay a premium price to obtain the securities. Thus, investors of this type are categorized as GARP, or "growth at a reasonable price," investors. Investors utilizing this investment approach will use methodologies and indicators favoured by both growth and value investors, but neither of the aforementioned styles dominates the process.

Growth – These institutions place the greatest emphasis in their selection process on the growth prospects of a company's earnings. Growth investors prefer companies where bottom line growth will average at least 15% annually and are willing to pay above market average multiples for a stock. At the first sign of an earnings slow-down, however, growth investors are often the quickest to sell.

Index – These institutions strive to match the performance of an equity index such as the MSCI EAFE Index or the S&P 500 Index, while at the same time keeping trading costs at a minimum. An institution accomplishes this by holding the stocks that comprise the index in its portfolio at the same proportion as the index. Indexing is a passive style of investing; stocks are bought and sold based upon their inclusion in an index and not on their fundamentals. Please note, index investors are not familiar with the companies in which they have made investments and are therefore considered investor relations immune.

Other – This style is applied to companies that are not investment firms, such as public companies.

Private Equity - This style is applied to firms that are private equity investors and their public equity holdings are the result of pre-IPO holdings.

Specialty – Applied to firms with investment strategies that cannot be categorized due to the specific nature of their focus. Industry or sector specific focus is the most common example of a Specialty investor.

Value – Value-oriented institutions prefer stocks that are trading at undervalued levels relative to some valuation such as a stock's intrinsic value or a company's free cash flow. Value investors tend to have longer-term investment horizons than their growth counterparts as they wait for the convergence of value and price.

Venture Capital - This style is applied to firms that are venture capital investors and their public equity holdings are the result of pre-IPO holdings.

Yield – Yield investors are sensitive to a high dividend yield and invest in companies with yield levels very high compared to the market yield, and have a history of paying and increasing dividends over time.

Orientation

Active – Indicates that the final investment decision making process at an institution is enacted by a portfolio manager or analyst. While computer screening models may be used in the investment process they are not utilized to make the final investment decision.

Passive – This category primarily captures index and quantitative investors. These investors utilize computer models to define an investable universe and make final portfolio decisions. Investor relations officers cannot influence these investment decisions.





GLOSSARY

Turnover

Portfolio Equity Turnover is the measure of how frequently a portfolio buys or sells securities over a 12 month period. It is calculated as the sum of the dollar values of buys and sells over a given period, divided by the sum of the beginning and ending equity assets over the same period, reported as an annualized percentage.

A portfolio with a turnover rate of 100% replaces its entire portfolio throughout the course of a 12-month period, whereas, a portfolio with a turnover rate of 50% replaces half of its holdings during the same time.

- Low Turnover (0-33.3% per year)
- Medium Turnover (33.3 -66.6% per year)
- High Turnover (66.6-100% per year)
- Very High Turnover (Over 100% per year)

Equity Assets (\$M) – The market value of all current publicly disclosed ownership of equity securities held by an account/institution as identified by IHS Markit, expressed in millions of USD.

Value (\$M) - Total value invested in a company/country/region by an institution

Equation: (\(\sum \) All Shares Held Owned Over Period X End-of-Period Security Price)

Change (\$M) - Measures the actual buying/selling activity of institutions (excluding changes in the price of the underlying security). Throughout the report, Net Buy/Sell Activity may be displayed as a value or on a percent change.

Equation: [(Σ All Shares Bought Over Period X End-of-Period Security Price)] - (Σ All Shares Sold Over Period X End-of-Period Security Price)]

% Portfolio - The % of a Buy side institution's position in a company/country/region based on an institution's total portfolio value (Equity Assets (\$M)).

% Portfolio Change - The % change of the institution in the company/country/region

Equation: $[(\sum \text{Value ($M)}) / [(\sum \text{Value ($M)} - (\sum \text{Change ($M)}) \times 100]]$

S&P Global's institutional ownership data is based on publicly-disclosed information, collected from such sources as regulatory ownership filings (including SEC forms 13F/D/G), disclosures made by mutual funds / pension funds to their beneficiaries, registration statements, news releases, and other sources. It should be noted that regulatory filings and other ownership sources vary widely country-by-country as to their completeness and timeliness. When an institutional investor's complete ownership is not disclosed by requirement, S&P Global aggregates and sums the publicly-filed portfolio information from the investor to arrive at a disclosed total equity figure. Data for the beginning and end of Q3-2021 can be considered a snapshot of the most current positions.



