

2ND QUARTER • 2020

UK FOUNDATIONS AND ENDOWMENTS

COMPARATIVE ASSET ALLOCATION AND TOTAL RETURN

NOTES ON THE DATA

DATA COLLECTION. Included in this analysis for the quarter ended 30 June 2020 are 31 UK-based foundations and endowments. The average market value of participating UK foundations and endowments was £277.5 million, and the median market value was £128.6 million for the quarter ended 30 June 2020.

The notation of n denotes the number of foundations and endowments included in each analysis. Returns are denominated in pounds sterling.

Asset allocation is generated using the investment manager structure for each client. Every investment product, fund, and vehicle that a client is invested in is assigned an asset class. Asset classes for a given investment product, fund, or vehicle are maintained across all clients to ensure comparability. The statistics throughout this analysis are calculated on an equal-weighted basis.

ASSET CLASSES. In Figures 1–3, global equity includes global ex UK equities (developed and emerging); hedge funds include long/short hedge funds and absolute return (ex distressed securities); private equity and venture capital include non-venture private equity, venture capital, and other private investments; real assets and inflation-linked bonds include public and private real estate, commodities, global inflation-linked bonds, private oil & gas/natural resources, timber, and public energy/natural resources; and bonds include UK bonds, global ex UK bonds, and high-yield bonds. In Figure 3, global bonds includes global ex UK bonds (developed and emerging). One institution reported an allocation to ‘other’, which represents an allocation to investment managers with a balanced funds strategy.

PRIVATE INVESTMENT PERFORMANCE REPORTING METHODOLOGIES. All 20 of the foundations and endowments in this analysis with an allocation to private investments (approximately 1% of the total investment pool or greater) report private investment performance using a flat basis methodology. Total investment pool returns for second quarter 2020 include marketable asset performance for 1 April 2020 to 30 June 2020. The private investment portion of the investment pool is represented by a flat return (0%) for 1 April 2020 to 30 June 2020.

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CALCULATION OF THE SHARPE RATIO. The Sharpe ratio is defined as the excess return, or the return over the risk-free rate, on a portfolio divided by the total volatility as measured by the standard deviation of the portfolio. The most common approach to measuring risk is by the Sharpe ratio, which shows how much return above the risk-free rate (UK three-month Libor) the investor has earned per unit of risk (defined as standard deviation of returns). The higher the Sharpe ratio, the more the investor has been compensated for each unit of risk taken. The ratio is a measure of reward relative to total volatility. The formula is:

$$\frac{R_p - R_f}{S_p} = \text{Sharpe Ratio}$$

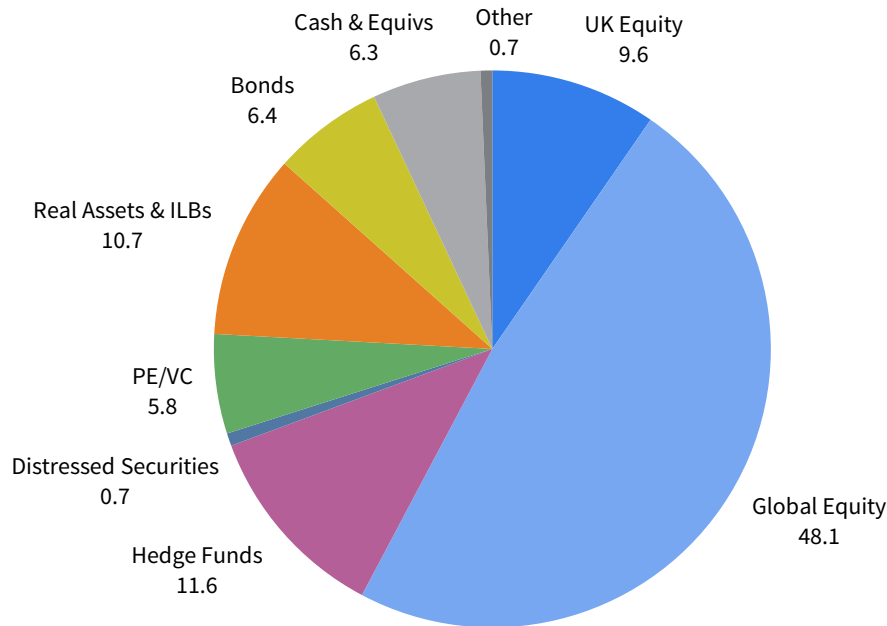
Where:

- R_p is the arithmetic average of composite quarterly returns,
- R_f is the arithmetic average of T-bill (risk-free) quarterly returns, and
- S_p is the quarterly standard deviation of composite quarterly returns

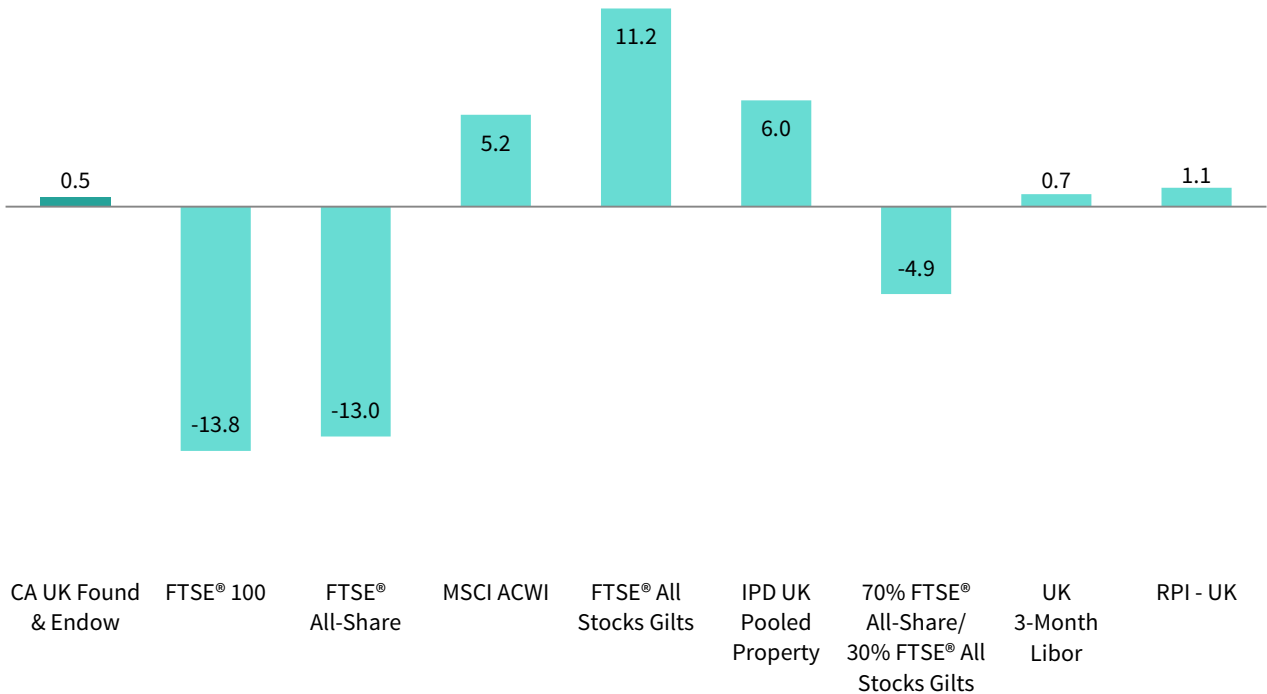
FIGURE 1 INVESTMENT POOL MEAN ASSET ALLOCATION AND TOTAL RETURN

Period Ended 30 June 2020 • Percent (%)

Mean Asset Allocation (n = 31)



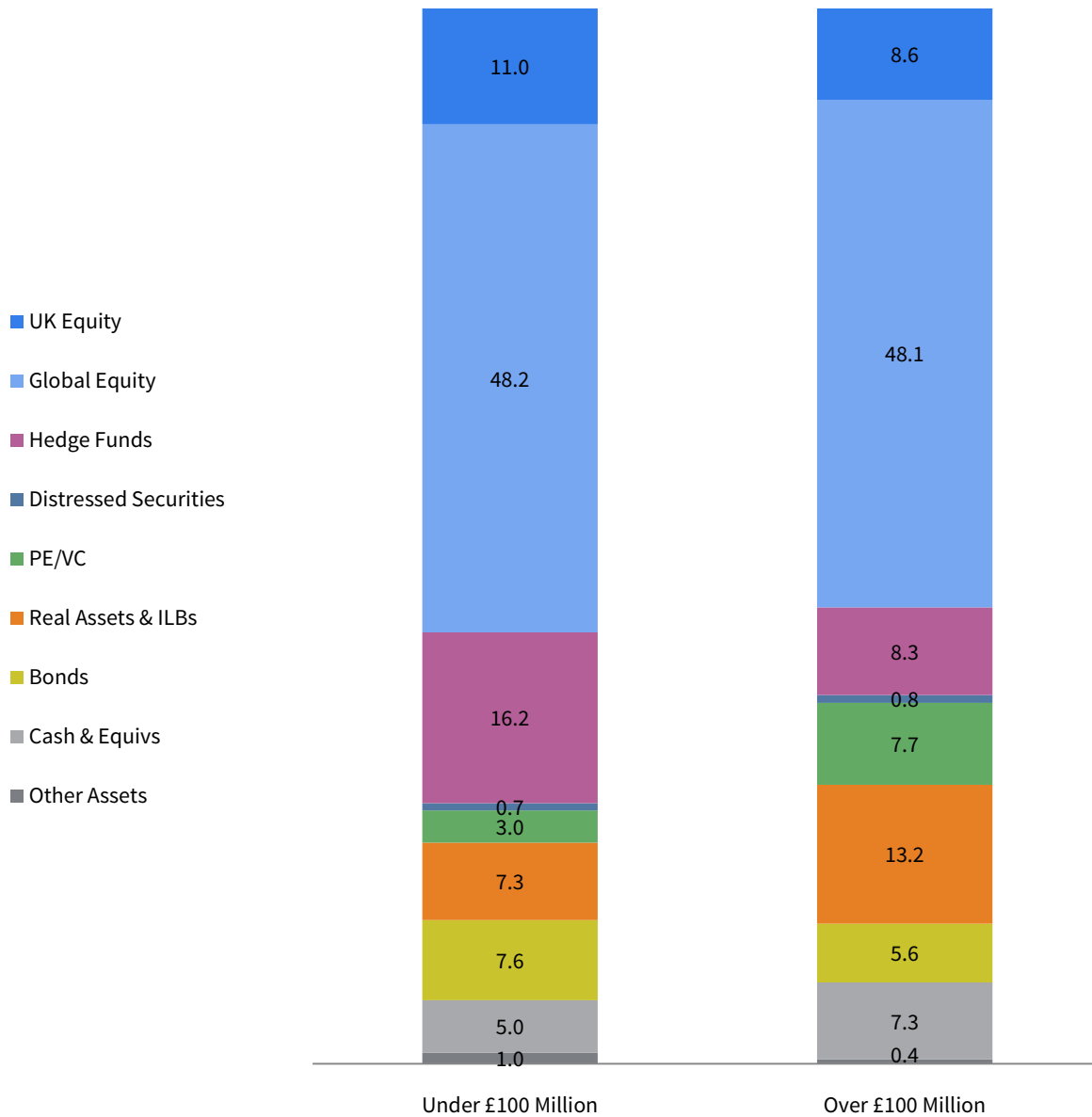
One-Year Nominal Mean Return and Relevant Benchmarks (n = 31)



Sources: UK foundation and endowment data as reported to Cambridge Associates LLC. Index data are provided by FTSE International Limited, Investment Property Databank (IPD), MSCI Inc., Thomson Reuters Datastream, and UK Office for National Statistics. IPD data provided “as is” without any express or implied warranties. MSCI data provided “as is” without any express or implied warranties.

FIGURE 2 INVESTMENT POOL MEAN ASSET ALLOCATION BY ASSET SIZE

As at 30 June 2020 • Percent (%)



UK Equity	11.0	8.6
Global Equity	48.2	48.1
Hedge Funds	16.2	8.3
Distressed Securities	0.7	0.8
PE/VC	3.0	7.7
Real Assets & ILBs	7.3	13.2
Bonds	7.6	5.6
Cash & Equivs	5.0	7.3
Other Assets	1.0	0.4
<i>n</i>	13	18

Source: UK foundation and endowment data as reported to Cambridge Associates LLC.

FIGURE 3 DETAILED ASSET ALLOCATION BY ASSET SIZE

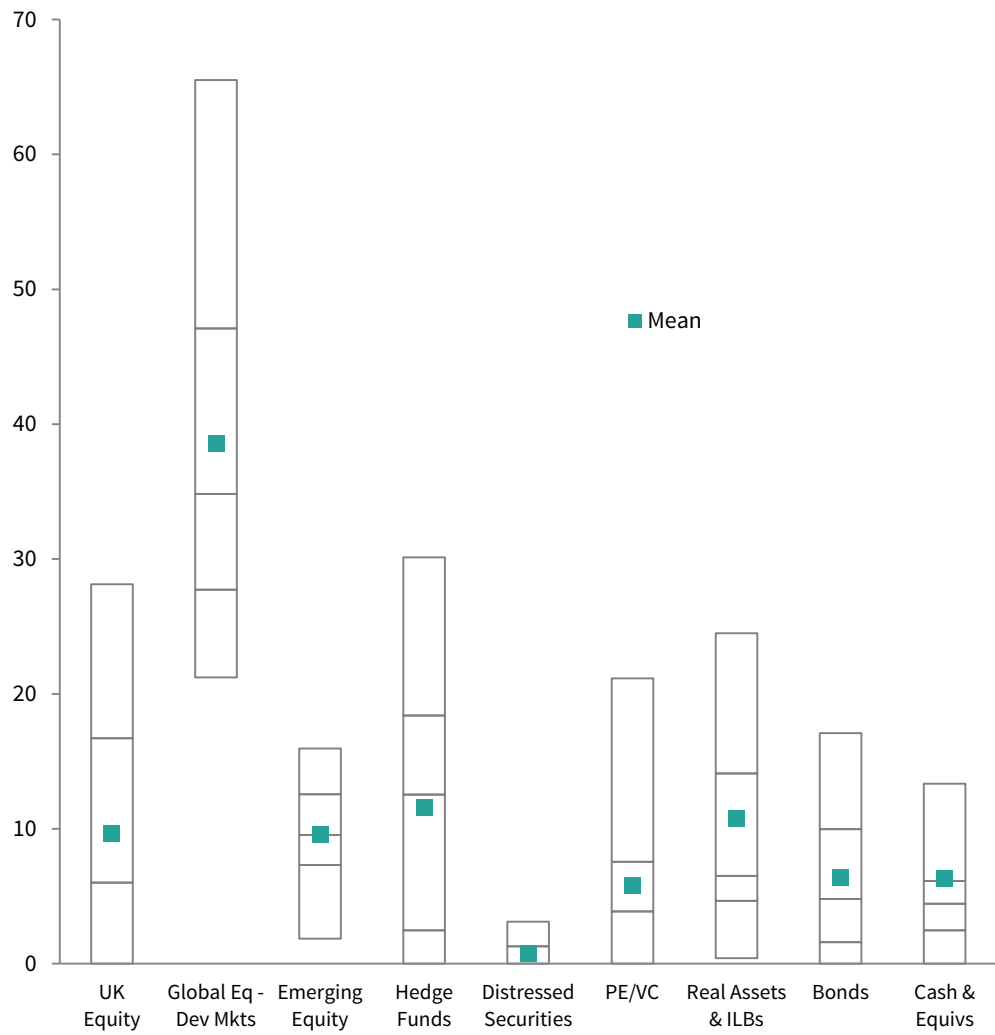
As at 30 June 2020 • Percent (%)

Asset Class	CA UK Foundations & Endowments (n = 31)		Under £100 Million (n = 13)		Over £100 Million (n = 18)	
	Mean	Median	Mean	Median	Mean	Median
UK Equity	9.6	6.0	11.0	15.6	8.6	1.9
Global Equity	48.1	46.7	48.2	46.7	48.1	46.2
Developed Markets	38.6	34.8	36.9	35.4	39.8	33.8
Emerging Markets	9.6	9.6	11.3	11.5	8.3	8.8
Hedge Funds	11.6	12.5	16.2	15.7	8.3	6.0
Long/Short Hedge Funds	4.2	0.0	4.6	0.0	3.9	2.1
Absolute Return (ex Distressed)	7.4	6.6	11.5	14.4	4.4	2.7
Distressed Securities	0.7	0.0	0.7	0.0	0.8	0.0
Hedge Fund Structure	0.3	0.0	0.4	0.0	0.2	0.0
Private Equity Structure	0.5	0.0	0.3	0.0	0.6	0.0
PE/VC	5.8	3.9	3.0	1.9	7.7	3.9
Non-Venture Private Equity	2.9	2.4	2.2	0.0	3.4	2.4
Venture Capital	2.2	0.0	0.3	0.0	3.5	0.0
Other Private Investments	0.7	0.0	0.5	0.0	0.8	0.2
Real Assets & ILBs	10.7	6.5	7.3	6.5	13.2	8.3
Private Real Estate	4.1	0.0	0.8	0.0	6.5	0.0
<i>Private Partnerships</i>	0.3	0.0	0.3	0.0	0.3	0.0
<i>Direct Property Holdings</i>	3.8	0.0	0.6	0.0	6.2	0.0
Public Real Estate	3.5	0.0	3.2	0.0	3.6	0.0
Commodities	0.7	0.0	1.3	0.6	0.3	0.0
Inflation-Linked Bonds (UK)	0.3	0.0	0.5	0.0	0.2	0.0
Inflation-Linked Bonds (ex UK)	1.5	0.0	1.1	0.0	1.7	1.1
Private Oil & Gas/Natural Resources	0.0	0.0	0.0	0.0	0.0	0.0
Timber	0.2	0.0	0.3	0.0	0.1	0.0
Public Energy/Natural Resources	0.5	0.0	0.1	0.0	0.9	0.0
Bonds	6.4	4.8	7.6	5.9	5.6	3.8
UK Bonds	0.9	0.0	0.5	0.0	1.2	0.0
Global Bonds	5.4	3.5	7.2	3.5	4.1	3.3
<i>Developed Markets</i>	4.7	3.2	6.3	3.3	3.5	2.7
<i>Emerging Markets</i>	0.7	0.0	0.9	0.0	0.7	0.0
High-Yield Bonds	0.1	0.0	0.0	0.0	0.2	0.0
Cash & Equivs	6.3	4.4	5.0	4.4	7.3	4.4
Other Assets	0.7	0.0	1.0	0.0	0.4	0.0

Source: UK foundation and endowment data as reported to Cambridge Associates LLC.

FIGURE 4 ASSET ALLOCATION DISTRIBUTION

As at 30 June 2020 • Percent (%)



CA UK Foundations & Endowments

5th Percentile	28.1	65.5	16.0	30.1	3.1	21.2	24.5	17.1	13.3
25th Percentile	16.7	47.1	12.6	18.4	1.3	7.6	14.1	10.0	6.1
Median	6.0	34.8	9.6	12.5	0.0	3.9	6.5	4.8	4.4
75th Percentile	0.0	27.7	7.3	2.5	0.0	0.0	4.7	1.6	2.5
95th Percentile	0.0	21.2	1.9	0.0	0.0	0.0	0.4	0.0	0.0
Mean	9.6	38.6	9.6	11.6	0.7	5.8	10.7	6.4	6.3
<i>n</i>	31								

Source: UK foundation and endowment data as reported to Cambridge Associates LLC.

FIGURE 5 SUMMARY OF INVESTMENT POOL RETURNS

Periods Ended 30 June 2020 • Percent (%)

Nominal Total Returns

	Latest Quarter	CYTD	Average Annual Compound Nominal Return			
			One Year	Three Years	Five Years	Ten Years
CA UK Foundations & Endowments						
Mean	10.9	-2.3	0.5	3.9	7.1	8.1
Median	11.6	-3.2	-0.1	3.2	6.7	7.7
High	24.3	5.6	10.0	9.0	13.1	11.8
5th Percentile	15.1	4.2	5.8	7.9	10.1	11.4
25th Percentile	13.1	-0.3	2.3	5.1	8.3	8.5
75th Percentile	8.9	-4.5	-1.8	2.7	5.8	7.4
95th Percentile	3.0	-6.1	-2.7	1.8	4.9	6.3
Low	2.6	-7.8	-8.8	-4.9	2.3	5.4
<i>n</i>	31	31	31	30	27	22
Benchmarks						
FTSE® 100	9.1	-16.9	-13.8	-1.6	2.9	6.2
FTSE® All-Share	10.2	-17.5	-13.0	-1.6	2.9	6.7
MSCI ACWI	19.6	0.5	5.2	7.9	11.7	11.3
FTSE® All Stocks Gilts	2.5	8.9	11.2	5.9	6.0	5.7
IPD UK Pooled Property	2.3	4.4	6.0	9.5	9.0	2.2
UK 3-Month Libor	0.1	0.3	0.7	0.7	0.6	0.7
RPI - UK	0.0	0.3	1.1	2.4	2.5	2.7

Real Total Returns

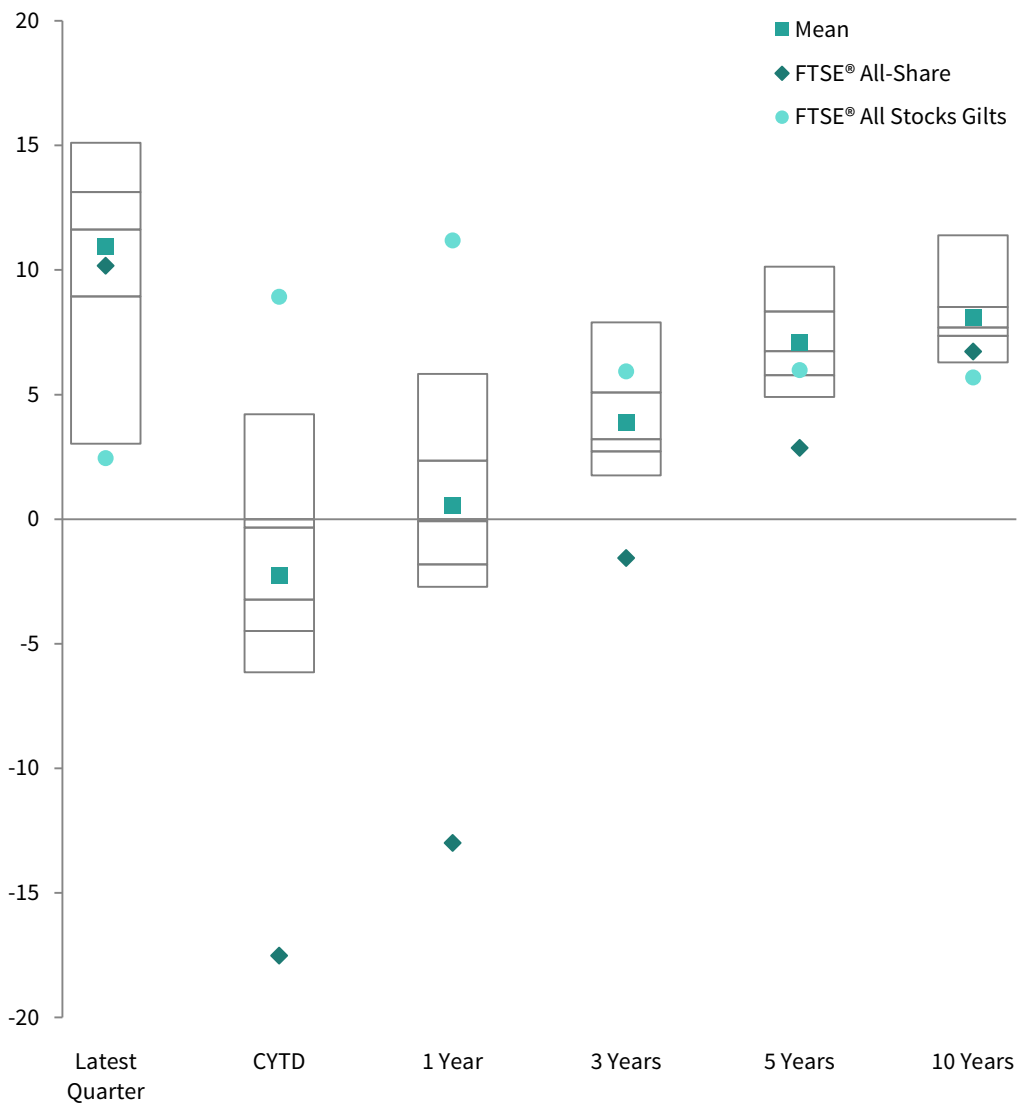
	Latest Quarter	CYTD	Average Annual Compound Real Return			
			One Year	Three Years	Five Years	Ten Years
CA UK Foundations & Endowments						
Mean	10.9	-2.5	-0.5	1.4	4.5	5.2
Median	11.6	-3.5	-1.1	0.7	4.2	4.9
High	24.3	5.3	8.9	6.4	10.4	8.9
5th Percentile	15.1	3.9	4.7	5.3	7.5	8.5
25th Percentile	13.1	-0.6	1.3	2.6	5.7	5.7
75th Percentile	8.9	-4.8	-2.9	0.3	3.2	4.5
95th Percentile	3.0	-6.4	-3.7	-0.7	2.4	3.5
Low	2.6	-8.1	-9.8	-7.1	-0.2	2.7
<i>n</i>	31	31	31	30	27	22
Benchmarks						
FTSE® 100	9.1	-17.1	-14.7	-4.0	0.4	3.4
FTSE® All-Share	10.1	-17.7	-13.9	-3.9	0.4	3.9
MSCI ACWI	19.6	0.2	4.1	5.4	9.0	8.3
FTSE® All Stocks Gilts	2.4	8.6	10.0	3.4	3.4	2.9
IPD UK Pooled Property	2.3	4.1	4.9	6.9	6.3	-0.5
UK 3-Month Libor	0.1	0.0	-0.4	-1.7	-1.8	-2.0

Sources: UK foundation and endowment data as reported to Cambridge Associates LLC. Index data are provided by FTSE International Limited, Investment Property Databank (IPD), MSCI Inc., Thomson Reuters Datastream, and UK Office for National Statistics. IPD data provided "as is" without any express or implied warranties. MSCI data provided "as is" without any express or implied warranties.

Note: Real returns are adjusted for inflation as measured by the UK Retail Price Index.

FIGURE 6 INVESTMENT POOL NOMINAL RETURN PERCENTILES

Periods Ended 30 June 2020 • Percent (%)



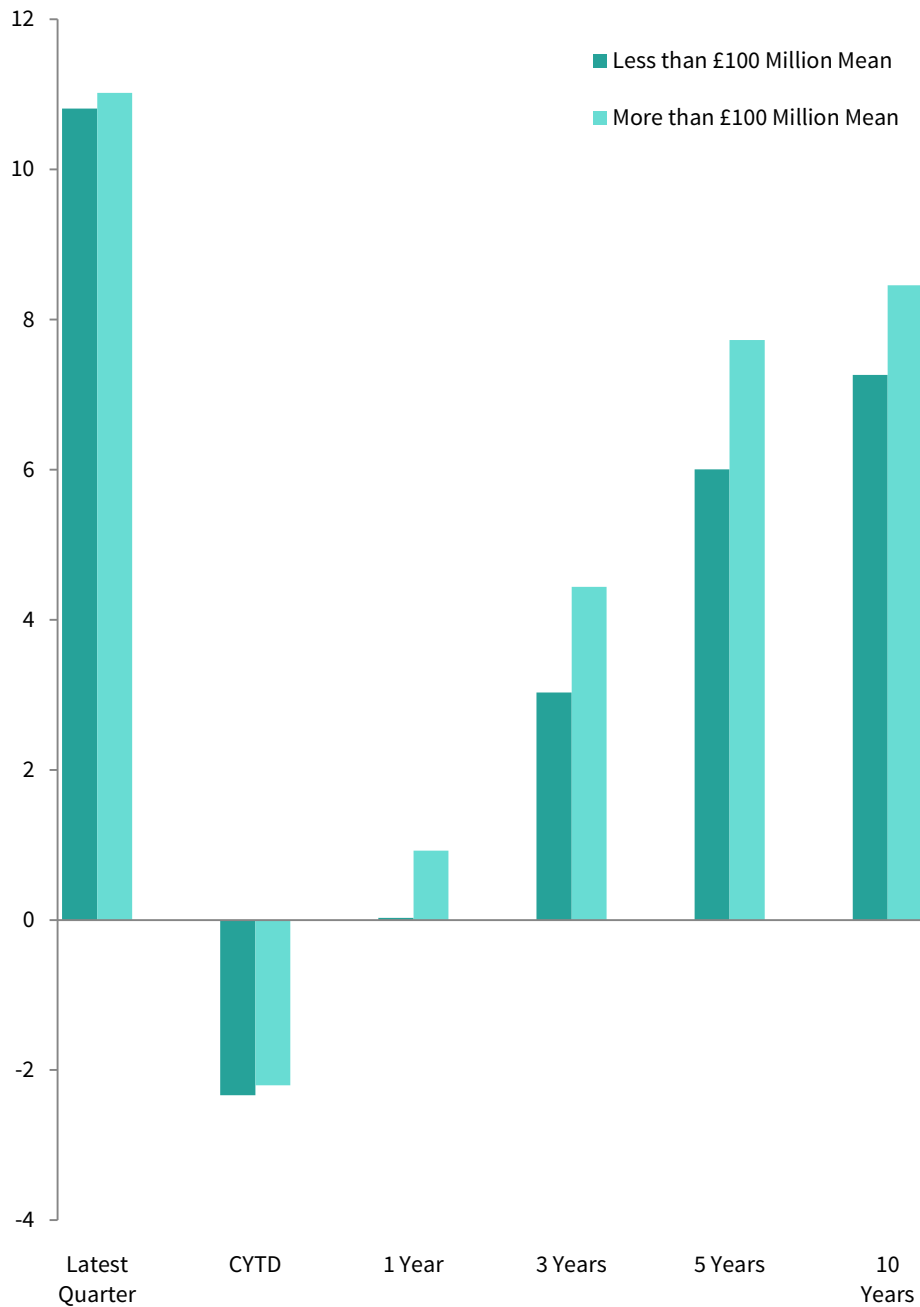
5th Percentile	15.1	4.2	5.8	7.9	10.1	11.4
25th Percentile	13.1	-0.3	2.3	5.1	8.3	8.5
Median	11.6	-3.2	-0.1	3.2	6.7	7.7
75th Percentile	8.9	-4.5	-1.8	2.7	5.8	7.4
95th Percentile	3.0	-6.1	-2.7	1.8	4.9	6.3
Mean	10.9	-2.3	0.5	3.9	7.1	8.1
<i>n</i>	31	31	31	30	27	22
FTSE® All-Share	10.2	-17.5	-13.0	-1.6	2.9	6.7
FTSE® All Stocks Gilts	2.5	8.9	11.2	5.9	6.0	5.7

Sources: UK foundation and endowment data as reported to Cambridge Associates LLC. Index data are provided by FTSE International Limited.

Note: Three-, five-, and ten-year returns are annualised.

FIGURE 7 NOMINAL TOTAL RETURN SUMMARY BY ASSET SIZE

Periods Ended 30 June 2020 • Percent (%)



Less than £100 Million

Mean	10.8	-2.3	0.0	3.0	6.0	7.3
Median	11.6	-2.6	0.2	3.1	6.4	7.5
<i>n</i>	13	13	13	12	10	7

More than £100 Million

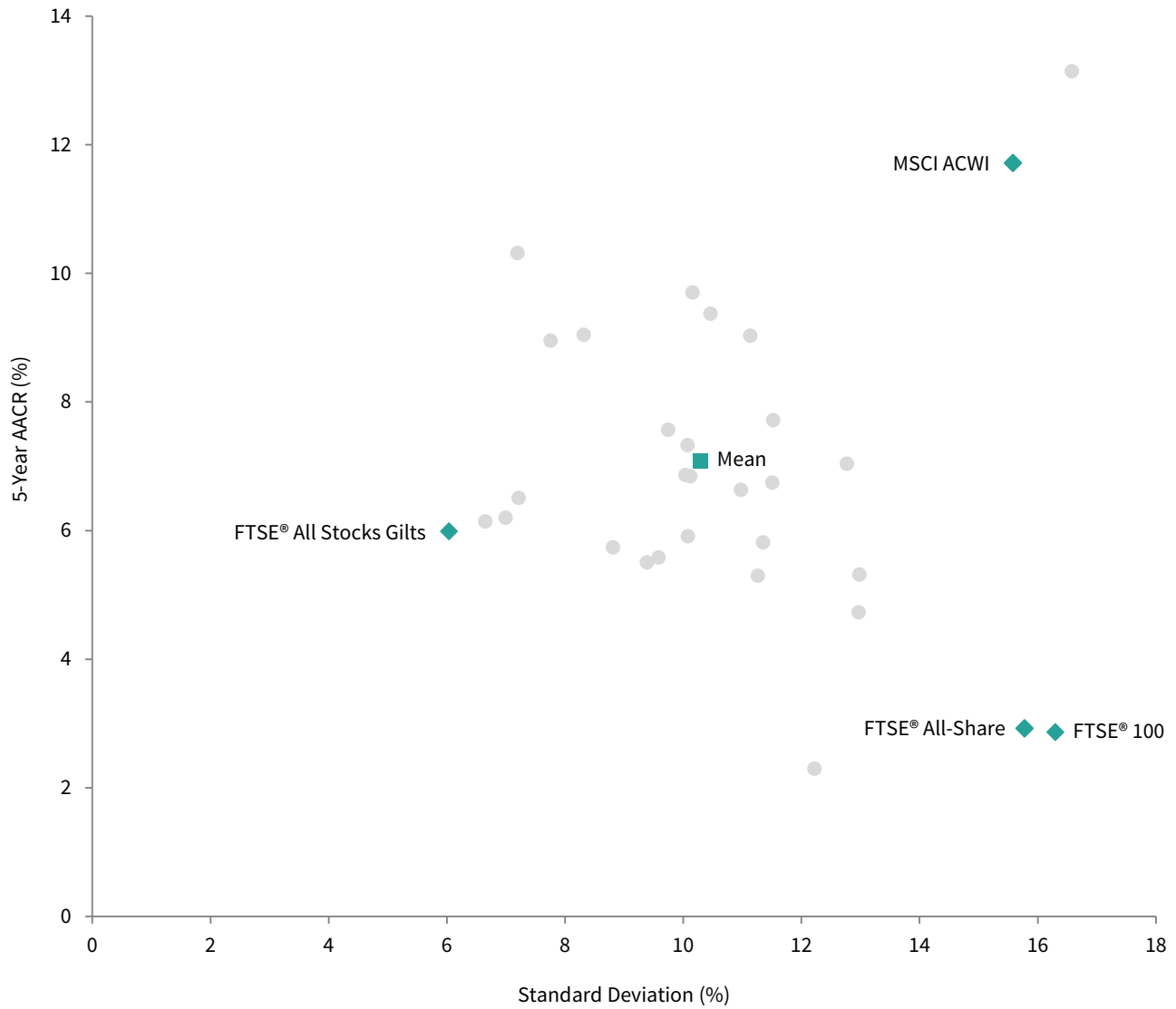
Mean	11.0	-2.2	0.9	4.4	7.7	8.5
Median	11.9	-3.3	-0.1	3.7	7.3	8.0
<i>n</i>	18	18	18	18	17	15

Source: UK foundation and endowment data as reported to Cambridge Associates LLC.

Note: Three-, five-, and ten-year returns are annualised.

FIGURE 8 STANDARD DEVIATION AND SHARPE RATIO

Five Years Ended 31 December 2019



	5-Year AACR ¹	Standard Deviation ²	Sharpe Ratio ³
Mean <i>n</i> = 27	7.1	10.3	0.69
FTSE® 100	2.9	15.8	0.23
FTSE® All-Share	2.9	16.3	0.22
MSCI ACWI	11.7	15.6	0.76
FTSE® All Stocks Gilts	6.0	6.0	0.90

Sources: UK foundation and endowment data as reported to Cambridge Associates LLC. Index data are provided by FTSE International Limited and MSCI Inc. MSCI data provided "as is" without any express or implied warranties.

¹ Five-year geometric average annual compound returns.

² Annualised standard deviations are based on last five years of quarterly returns.

³ Sharpe Ratio = (Composite Performance - Risk-Free Rate) ÷ Annualised Standard Deviation. The risk-free rate is the UK three-month Libor.

PARTICIPANTS

The 29th May 1961 Charitable Trust
Aberystwyth University
The Art Fund
Barts Charity
Big Win Philanthropy UK
The Burdett Trust
Chelsea and Westminster Health Charity
The Clothworkers' Company
Comic Relief
Council for World Mission
Courtauld Institute of Art
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Medlock Charitable Trust
The Nuffield Foundation
The Paul Hamlyn Foundation
The Pilgrim Trust
Royal Literary Fund
The Society of Merchant Venturers
Trinity College, Cambridge
Winchester College

Note: Two participating institutions wish to remain anonymous.

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