

Massachusetts Housing Finance Agency Retirement System

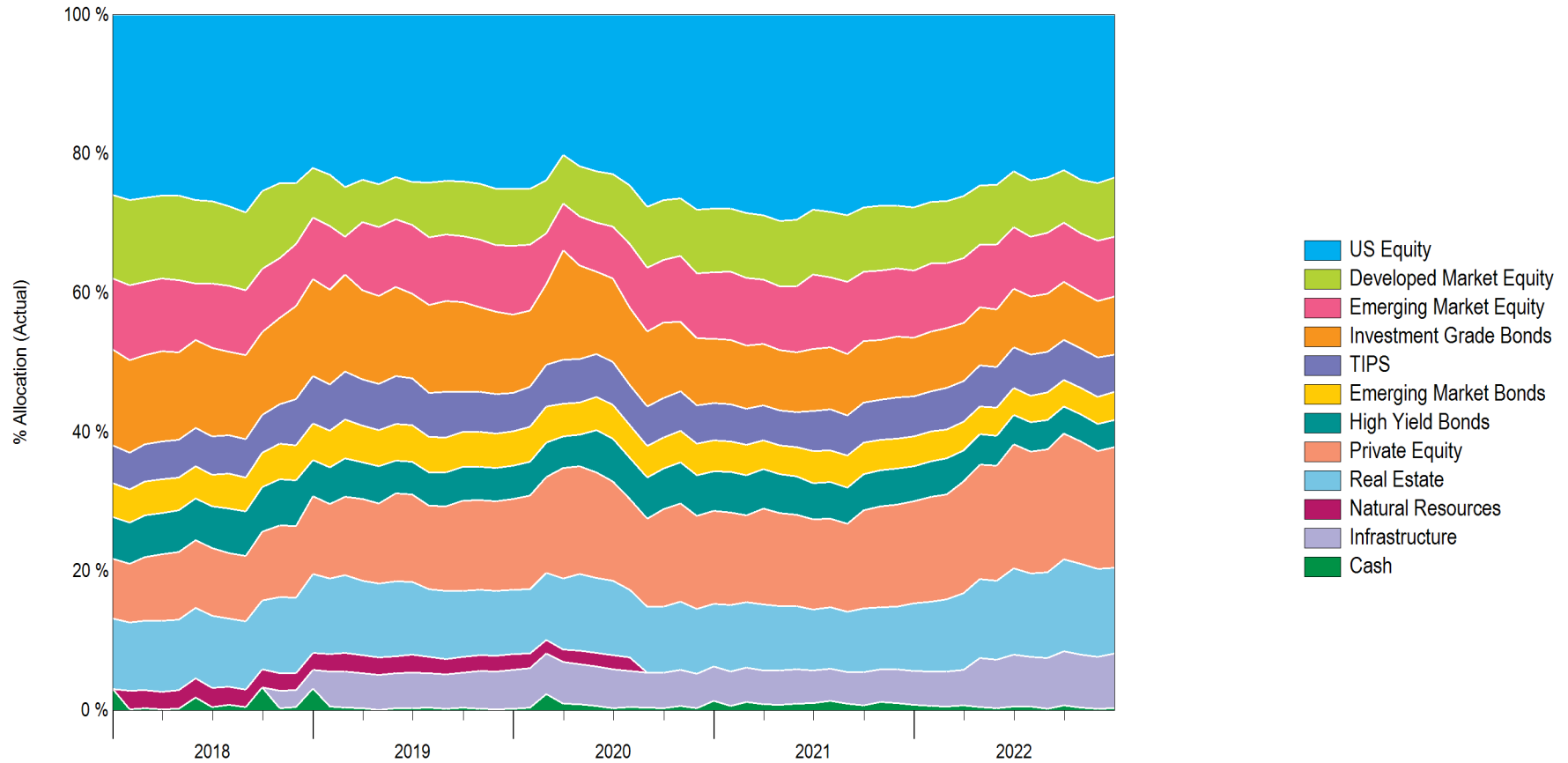
Quarterly Review
December 31, 2022

Fund Evaluation Report

Fourth Quarter 2022 Performance Review

	Allocation vs. Targets and Policy				
	Current Balance	Current Allocation	Policy	Policy Range	Within IPS Range?
US Equity	\$51,465,057	23%	27%	22% - 32%	Yes
Developed Market Equity	\$18,808,902	9%	10%	6% - 14%	Yes
Emerging Market Equity	\$18,829,798	9%	11%	7% - 15%	Yes
Investment Grade Bonds	\$18,298,298	8%	9%	5% - 13%	Yes
TIPS	\$11,797,574	5%	6%	3% - 9%	Yes
Emerging Market Bonds	\$8,943,776	4%	5%	2% - 8%	Yes
High Yield Bonds	\$8,647,466	4%	5%	1% - 9%	Yes
Private Equity	\$38,103,332	17%	12%	4% - 20%	Yes
Real Estate	\$27,116,877	12%	8%	2% - 14%	Yes
Infrastructure	\$17,177,371	8%	7%	4% - 10%	Yes
Cash	\$704,688	0%	0%	0% - 5%	Yes
Total	\$219,893,138	100%	100%		

Asset Allocation History
5 Years Ending December 31, 2022



Asset Class Performance Summary

	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Retirement System	219,893,138	100.0	3.7	-8.5	6.8	6.8	6.9	5.9	Jul-01
60% MSCI ACWI / 40% Barclays Global Aggregate			7.7	-17.3	0.8	2.7	4.7	5.3	Jul-01
InvMetrics Public DB \$50mm-\$250mm Net Median			5.7	-13.5	3.7	5.1	7.0	5.9	Jul-01
InvMetrics Public DB \$50mm-\$250mm Net Rank			96	5	1	2	51	45	Jul-01
Domestic Equity Assets	51,465,057	23.4	7.7	-18.2	7.6	9.0	12.2	7.5	Jul-01
Russell 3000			7.2	-19.2	7.1	8.8	12.1	7.6	Jul-01
eV US Large Cap Equity Gross Median			9.7	-15.0	7.7	9.2	12.3	8.3	Jul-01
eV US Large Cap Equity Gross Rank			66	63	52	54	52	82	Jul-01
Total International Developed Market Equity	18,808,902	8.6	16.8	-16.3	0.5	1.3	5.3	5.5	Jul-01
MSCI EAFE			17.3	-14.5	0.9	1.5	4.7	4.7	Jul-01
eV EAFE Core Equity Gross Median			16.3	-16.4	1.4	1.9	6.0	6.3	Jul-01
eV EAFE Core Equity Gross Rank			39	50	69	64	71	87	Jul-01
International Emerging Market Equity Assets	18,829,798	8.6	3.4	-20.7	-0.5	-1.0	0.6	0.9	Jul-07
MSCI Emerging Markets			9.7	-20.1	-2.7	-1.4	1.4	1.7	Jul-07
eV Emg Mkts Equity Gross Median			10.4	-19.4	-1.2	-0.1	2.9	2.9	Jul-07
eV Emg Mkts Equity Gross Rank			98	62	41	69	99	99	Jul-07
Investment Grade Bond Assets	18,298,298	8.3	1.7	-13.1	-1.8	0.6	1.3	3.8	Jul-01
Bloomberg US Aggregate TR			1.9	-13.0	-2.7	0.0	1.1	3.6	Jul-01
eV US Core Fixed Inc Gross Median			1.9	-12.8	-2.1	0.5	1.5	4.1	Jul-01
eV US Core Fixed Inc Gross Rank			64	69	28	36	87	89	Jul-01
High Yield Bond Assets	8,647,466	3.9	3.8	-12.6	0.4	2.6	4.1	5.5	Feb-05
CSFB High Yield Index			3.8	-10.6	-0.2	2.1	3.9	5.7	Feb-05
eV US High Yield Fixed Inc Gross Median			4.1	-9.5	0.8	2.8	4.3	6.1	Feb-05
eV US High Yield Fixed Inc Gross Rank			67	95	61	64	62	88	Feb-05

Retirement System Summary | As of December 31, 2022

	Market Value (\$)	% of Portfolio	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
TIPS Assets	11,797,574	5.4	1.9	-12.0	1.2	2.1	1.1	3.5	Jul-07
Bloomberg US TIPS TR			2.0	-11.8	1.2	2.1	1.1	3.6	Jul-07
eV US TIPS / Inflation Fixed Inc Gross Median			2.1	-11.3	1.5	2.4	1.3	3.7	Jul-07
eV US TIPS / Inflation Fixed Inc Gross Rank			69	84	92	86	89	76	Jul-07
Emerging Market Debt Assets	8,943,776	4.1	9.5	-15.0	-4.7	-1.5	--	-2.5	Mar-13
50% JPM EMBI GD / 50% JPM GBI-EM			8.3	-14.8	-5.7	-1.9	-0.2	-0.1	Mar-13
Real Estate Assets	27,116,877	12.3	-4.7	8.2	9.1	8.8	9.8	6.7	Apr-05
NCREIF ODCE (net)			-5.1	6.6	9.0	7.7	9.1	7.0	Apr-05
Private Equity Assets	38,103,332	17.3	-0.2	11.1	26.7	21.8	14.8	9.2	Oct-03
Preqin Private Equity 1Q Lagged			0.0	6.2	21.6	18.0	16.0	14.0	Oct-03
Infrastructure Assets	17,177,371	7.8	4.0	8.2	9.4	--	--	10.8	Oct-18
CPI + 3%			0.7	9.6	8.1	6.9	5.7	7.0	Oct-18
Cash	704,688	0.3							

Trailing Gross Performance										
	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Retirement System	219,893,138	100.0	--	3.7	-8.5	6.8	6.8	6.9	5.9	Jul-01
60% MSCI ACWI / 40% Barclays Global Aggregate				7.7	-17.3	0.8	2.7	4.7	5.3	Jul-01
InvMetrics Public DB \$50mm-\$250mm Net Median				5.7	-13.5	3.7	5.1	7.0	5.9	Jul-01
InvMetrics Public DB \$50mm-\$250mm Net Rank				96	5	1	2	51	45	Jul-01
Domestic Equity Assets	51,465,057	23.4	23.4	7.7	-18.2	7.6	9.0	12.2	7.5	Jul-01
Russell 3000				7.2	-19.2	7.1	8.8	12.1	7.6	Jul-01
eV US Large Cap Equity Gross Median				9.7	-15.0	7.7	9.2	12.3	8.3	Jul-01
eV US Large Cap Equity Gross Rank				66	63	52	54	52	82	Jul-01
SSgA Russell 1000 Value Index-NL	27,406,056	12.5	53.3	12.4	-7.6	6.0	6.7	10.3	7.4	Jan-05
Russell 1000 Value				12.4	-7.5	6.0	6.7	10.3	7.3	Jan-05
eV US Large Cap Value Equity Gross Median				12.8	-5.4	8.0	8.3	11.4	8.5	Jan-05
eV US Large Cap Value Equity Gross Rank				58	70	85	80	83	88	Jan-05
SSgA Russell 1000 Growth-NL	19,845,299	9.0	38.6	2.2	-29.1	7.8	10.9	14.1	10.2	Jul-07
Russell 1000 Growth				2.2	-29.1	7.8	11.0	14.1	10.2	Jul-07
eV US Large Cap Growth Equity Gross Median				3.9	-29.1	6.6	10.2	13.3	9.8	Jul-07
eV US Large Cap Growth Equity Gross Rank				71	51	34	34	24	32	Jul-07
SSgA Russell 2000 Index-NL	4,213,702	1.9	8.2	6.3	-20.3	3.2	4.2	9.1	9.9	Aug-10
Russell 2000				6.2	-20.4	3.1	4.1	9.0	9.8	Aug-10
eV US Small Cap Core Equity Gross Median				9.1	-16.1	6.9	7.0	11.0	11.9	Aug-10
eV US Small Cap Core Equity Gross Rank				85	79	94	90	93	94	Aug-10

Retirement System Summary | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total International Developed Market Equity	18,808,902	8.6	8.6	16.8	-16.3	0.5	1.3	5.3	5.5	Jul-01
MSCI EAFE				17.3	-14.5	0.9	1.5	4.7	4.7	Jul-01
eV EAFE Core Equity Gross Median				16.3	-16.4	1.4	1.9	6.0	6.3	Jul-01
eV EAFE Core Equity Gross Rank				39	50	69	64	71	87	Jul-01
SSgA MSCI EAFE Index-NL	12,979,262	5.9	69.0	17.4	-14.1	1.2	1.9	5.0	5.4	Aug-10
MSCI EAFE				17.3	-14.5	0.9	1.5	4.7	5.1	Aug-10
eV EAFE Core Equity Gross Median				16.3	-16.4	1.4	1.9	6.0	6.7	Aug-10
eV EAFE Core Equity Gross Rank				27	31	54	53	79	88	Aug-10
SSgA MSCI EAFE Small Cap Index-NL	5,829,640	2.7	31.0	15.7	-20.9	-0.7	0.2	6.4	6.9	Aug-10
MSCI EAFE Small Cap				15.8	-21.4	-0.9	0.0	6.2	6.7	Aug-10
eV EAFE Small Cap Core Gross Median				16.3	-19.8	0.7	1.2	7.4	8.3	Aug-10
eV EAFE Small Cap Core Gross Rank				64	60	73	65	91	97	Aug-10
International Emerging Market Equity Assets	18,829,798	8.6	8.6	3.4	-20.7	-0.5	-1.0	0.6	0.9	Jul-07
MSCI Emerging Markets				9.7	-20.1	-2.7	-1.4	1.4	1.7	Jul-07
eV Emg Mkts Equity Gross Median				10.4	-19.4	-1.2	-0.1	2.9	2.9	Jul-07
eV Emg Mkts Equity Gross Rank				98	62	41	69	99	99	Jul-07
GQG Partners Emerging Markets	18,829,798	8.6	100.0	3.4	-20.7	2.0	--	--	4.2	Mar-19
MSCI Emerging Markets				9.7	-20.1	-2.7	-1.4	1.4	-0.2	Mar-19
eV Emg Mkts Equity Gross Median				10.4	-19.4	-1.2	-0.1	2.9	1.5	Mar-19
eV Emg Mkts Equity Gross Rank				98	62	24	--	--	21	Mar-19

Retirement System Summary | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Investment Grade Bond Assets	18,298,298	8.3	8.3	1.7	-13.1	-1.8	0.6	1.3	3.8	Jul-01
Bloomberg US Aggregate TR				1.9	-13.0	-2.7	0.0	1.1	3.6	Jul-01
eV US Core Fixed Inc Gross Median				1.9	-12.8	-2.1	0.5	1.5	4.1	Jul-01
eV US Core Fixed Inc Gross Rank				64	69	28	36	87	89	Jul-01
Longfellow Investment Grade Bond	18,298,298	8.3	100.0	1.7	-13.1	-1.8	0.6	--	0.6	Sep-17
Bloomberg US Aggregate TR				1.9	-13.0	-2.7	0.0	1.1	0.0	Sep-17
eV US Core Fixed Inc Gross Median				1.9	-12.8	-2.1	0.5	1.5	0.5	Sep-17
eV US Core Fixed Inc Gross Rank				64	69	28	36	--	41	Sep-17
High Yield Bond Assets	8,647,466	3.9	3.9	3.8	-12.6	0.4	2.6	4.1	5.5	Feb-05
CSFB High Yield Index				3.8	-10.6	-0.2	2.1	3.9	5.7	Feb-05
eV US High Yield Fixed Inc Gross Median				4.1	-9.5	0.8	2.8	4.3	6.1	Feb-05
eV US High Yield Fixed Inc Gross Rank				67	95	61	64	62	88	Feb-05
Lord Abbett High Yield Core	8,647,466	3.9	100.0	3.8	-12.5	0.5	--	--	1.5	Jul-19
Bloomberg US High Yield TR				4.2	-11.2	0.0	2.3	4.0	1.2	Jul-19
eV US High Yield Fixed Inc Gross Median				4.1	-9.5	0.8	2.8	4.3	1.8	Jul-19
eV US High Yield Fixed Inc Gross Rank				67	95	61	--	--	63	Jul-19
TIPS Assets	11,797,574	5.4	5.4	1.9	-12.0	1.2	2.1	1.1	3.5	Jul-07
Bloomberg US TIPS TR				2.0	-11.8	1.2	2.1	1.1	3.6	Jul-07
eV US TIPS / Inflation Fixed Inc Gross Median				2.1	-11.3	1.5	2.4	1.3	3.7	Jul-07
eV US TIPS / Inflation Fixed Inc Gross Rank				69	84	92	86	89	76	Jul-07
SSgA TIPS-NL	11,797,574	5.4	100.0	1.8	-12.0	1.1	2.1	1.1	3.5	Jul-07
Bloomberg US TIPS TR				2.0	-11.8	1.2	2.1	1.1	3.6	Jul-07
eV US TIPS / Inflation Fixed Inc Gross Median				2.1	-11.3	1.5	2.4	1.3	3.7	Jul-07
eV US TIPS / Inflation Fixed Inc Gross Rank				70	85	92	89	89	76	Jul-07

Retirement System Summary | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Emerging Market Debt Assets	8,943,776	4.1	4.1	9.5	-15.0	-4.7	-1.5	--	-2.5	Mar-13
50% JPM EMBI GD / 50% JPM GBI-EM				8.3	-14.8	-5.7	-1.9	-0.2	-0.1	Mar-13
Metlife Emerging Markets Debt (Net)	3,781,585	1.7	42.3	8.4	-13.3	-3.9	-1.1	--	0.9	Nov-16
MetLife Custom Benchmark				6.8	-13.5	-4.0	-0.7	0.9	0.6	Nov-16
Aberdeen Emerging Markets Bond Fund	5,162,190	2.3	57.7	10.3	-16.2	-5.2	-1.7	--	0.6	Dec-16
JP Morgan EMBI Global Diversified				8.1	-17.8	-5.3	-1.3	1.6	0.7	Dec-16
JP Morgan GBI EM Global Diversified TR USD				8.5	-11.7	-6.1	-2.5	-2.0	0.5	Dec-16
Real Estate Assets	27,116,877	12.3	12.3	-4.7	8.2	9.1	8.8	9.8	6.7	Apr-05
NCREIF ODCE (net)				-5.1	6.6	9.0	7.7	9.1	7.0	Apr-05
TA Associates Realty Fund X	3,502	0.0	0.0	17.4	38.9	10.4	15.9	--	13.5	Apr-13
NCREIF ODCE (net)				-5.1	6.6	9.0	7.7	9.1	9.1	Apr-13
NCREIF Property Index				-3.5	5.5	8.1	7.5	8.8	8.8	Apr-13
Intercontinental U.S. REIF (Net)	11,835,511	5.4	43.6	-6.3	7.4	9.2	9.0	--	9.6	Oct-14
NCREIF ODCE (net)				-5.1	6.6	9.0	7.7	9.1	8.5	Oct-14
AEW Core Property Trust (Net)	12,006,569	5.5	44.3	-5.2	7.7	9.3	7.9	--	8.4	Oct-14
NCREIF ODCE (net)				-5.1	6.6	9.0	7.7	9.1	8.5	Oct-14

AEW Core Property Trust's market value is based on a preliminary December 31, 2022 capital account statement.

TA Associates Realty Fund X and AEW Partners IX are based on September 30, 2022 fair market values, adjusted for subsequent cash flows.

Metlife Custom Benchmark consists of 35% JP Morgan EMBI Global Diversified, 35% JP Morgan CEMBI Broad Diversified, and 30% JP Morgan GBI EM Global Diversified.

Retirement System Summary | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
AEW Partners IX, L.P.	3,271,295	1.5	12.1	1.8	5.6	--	--	--	-12.4	Mar-21
NCREIF ODCE (net)				-5.1	6.6	9.0	7.7	9.1	14.9	Mar-21
Private Equity Assets	38,103,332	17.3	17.3	-0.2	11.1	26.7	21.8	14.8	9.2	Oct-03
Preqin Private Equity IQ Lagged				0.0	6.2	21.6	18.0	16.0	14.0	Oct-03
Ascent Venture Partners - Fund V	625,211	0.3	1.6							
Ascent Venture Partners - Fund VI	1,726,884	0.8	4.5							
Constitution Capital Partners Ironsides III	5,871,667	2.7	15.4							
Constitution Capital Partners Ironsides IV	3,127,777	1.4	8.2							
Constitution Capital Partners Ironsides V	2,271,115	1.0	6.0							
Constitution Capital Direct IV	2,770,625	1.3	7.3							
Constitution Capital Direct V	3,818,211	1.7	10.0							
Constitution Capital Co-Investment Fund VI, L.P.	4,386,434	2.0	11.5							
Goldman Sachs PEP 2005	166,150	0.1	0.4							
HarbourVest Partners VIII	211,651	0.1	0.6							
HarbourVest Partners IX	3,171,637	1.4	8.3							
HarbourVest X Buyout Fund	5,210,996	2.4	13.7							

Preqin Private Equity is not available as of December 31, 2022.

Goldman Sachs PEP 2005's fair market value is based on a preliminary June 30, 2022 capital account statement.

Private Equity Assets are based on September 30, 2022 fair market value, adjusted for subsequent cash flows.

Retirement System Summary | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
HarbourVest Partners XI	4,443,706	2.0	11.7							
HarbourVest Fund XII	301,267	0.1	0.8							
Infrastructure Assets	17,177,371	7.8	7.8	4.0	8.2	9.4	--	--	10.8	Oct-18
<i>CPI + 3%</i>				<i>0.7</i>	<i>9.6</i>	<i>8.1</i>	<i>6.9</i>	<i>5.7</i>	<i>7.0</i>	<i>Oct-18</i>
IFM Global Infrastructure (U.S.), L.P.	17,177,371	7.8	100.0	4.0	8.2	9.4	--	--	10.8	Oct-18
<i>CPI + 3%</i>				<i>0.7</i>	<i>9.6</i>	<i>8.1</i>	<i>6.9</i>	<i>5.7</i>	<i>7.0</i>	<i>Oct-18</i>
Cash	704,688	0.3	0.3							
Cash STIF	704,688	0.3	100.0							

	Calendar Year Performance									
	2022 (%)	2021 (%)	2020 (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)
Total Retirement System	-8.5	16.4	14.2	17.5	-3.0	14.4	9.6	-2.7	4.3	10.9
60% MSCI ACWI / 40% Barclays Global Aggregate	-17.3	8.8	14.0	18.6	-6.0	17.1	5.7	-2.5	2.8	12.1
Domestic Equity Assets	-18.2	25.3	21.6	30.9	-5.5	21.0	13.1	0.4	12.4	33.5
Russell 3000	-19.2	25.7	20.9	31.0	-5.2	21.1	12.7	0.5	12.6	33.6
SSgA Russell 1000 Value Index-NL	-7.6	25.2	2.8	26.5	-8.3	13.8	17.3	-3.7	13.4	32.5
Russell 1000 Value	-7.5	25.2	2.8	26.5	-8.3	13.7	17.3	-3.8	13.5	32.5
SSgA Russell 1000 Growth-NL	-29.1	27.6	38.5	36.4	-1.7	30.2	7.2	5.6	13.1	33.5
Russell 1000 Growth	-29.1	27.6	38.5	36.4	-1.5	30.2	7.1	5.7	13.0	33.5
SSgA Russell 2000 Index-NL	-20.3	14.9	20.0	25.6	-11.0	14.7	21.5	-4.4	5.0	38.9
Russell 2000	-20.4	14.8	20.0	25.5	-11.0	14.6	21.3	-4.4	4.9	38.8
Total International Developed Market Equity	-16.3	11.1	9.3	23.3	-14.7	27.5	1.6	2.0	-4.7	24.4
MSCI EAFE	-14.5	11.3	7.8	22.0	-13.8	25.0	1.0	-0.8	-4.9	22.8
SSgA MSCI EAFE Index-NL	-14.1	11.5	8.3	22.5	-13.5	25.5	1.4	-0.5	-4.6	23.1
MSCI EAFE	-14.5	11.3	7.8	22.0	-13.8	25.0	1.0	-0.8	-4.9	22.8
SSgA MSCI EAFE Small Cap Index-NL	-20.9	10.1	12.4	25.0	-17.6	33.3	2.4	9.7	-4.7	29.5
MSCI EAFE Small Cap	-21.4	10.1	12.3	25.0	-17.9	33.0	2.2	9.6	-4.9	29.3
International Emerging Market Equity Assets	-20.7	-0.9	25.4	16.6	-17.3	32.5	11.7	-18.1	-4.4	-3.8
MSCI Emerging Markets	-20.1	-2.5	18.3	18.4	-14.6	37.3	11.2	-14.9	-2.2	-2.6
GQG Partners Emerging Markets	-20.7	-0.9	34.8	--	--	--	--	--	--	--
MSCI Emerging Markets	-20.1	-2.5	18.3	18.4	-14.6	37.3	11.2	-14.9	-2.2	-2.6

Retirement System Summary | As of December 31, 2022

	2022 (%)	2021 (%)	2020 (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)
Investment Grade Bond Assets	-13.1	-0.2	9.2	8.9	-0.1	3.5	2.7	0.8	6.1	-3.1
<i>Bloomberg US Aggregate TR</i>	<i>-13.0</i>	<i>-1.5</i>	<i>7.5</i>	<i>8.7</i>	<i>0.0</i>	<i>3.5</i>	<i>2.6</i>	<i>0.5</i>	<i>6.0</i>	<i>-2.0</i>
Longfellow Investment Grade Bond	-13.1	-0.2	9.2	8.9	-0.1	--	--	--	--	--
<i>Bloomberg US Aggregate TR</i>	<i>-13.0</i>	<i>-1.5</i>	<i>7.5</i>	<i>8.7</i>	<i>0.0</i>	<i>3.5</i>	<i>2.6</i>	<i>0.5</i>	<i>6.0</i>	<i>-2.0</i>
High Yield Bond Assets	-12.6	6.3	9.1	15.9	-3.2	7.2	11.5	-0.2	4.1	6.0
<i>CSFB High Yield Index</i>	<i>-10.6</i>	<i>5.5</i>	<i>5.5</i>	<i>14.0</i>	<i>-2.4</i>	<i>7.0</i>	<i>18.3</i>	<i>-4.9</i>	<i>1.9</i>	<i>7.5</i>
Lord Abbett High Yield Core	-12.5	6.3	9.1	--	--	--	--	--	--	--
<i>Bloomberg US High Yield TR</i>	<i>-11.2</i>	<i>5.3</i>	<i>7.1</i>	<i>14.3</i>	<i>-2.1</i>	<i>7.5</i>	<i>17.1</i>	<i>-4.5</i>	<i>2.5</i>	<i>7.4</i>
TIPS Assets	-12.0	5.9	11.0	8.4	-1.3	3.0	4.5	-1.4	3.6	-8.6
<i>Bloomberg US TIPS TR</i>	<i>-11.8</i>	<i>6.0</i>	<i>11.0</i>	<i>8.4</i>	<i>-1.3</i>	<i>3.0</i>	<i>4.7</i>	<i>-1.4</i>	<i>3.6</i>	<i>-8.6</i>
SSgA TIPS-NL	-12.0	5.9	11.0	8.4	-1.3	3.0	4.5	-1.4	3.6	-8.6
<i>Bloomberg US TIPS TR</i>	<i>-11.8</i>	<i>6.0</i>	<i>11.0</i>	<i>8.4</i>	<i>-1.3</i>	<i>3.0</i>	<i>4.7</i>	<i>-1.4</i>	<i>3.6</i>	<i>-8.6</i>
Emerging Market Debt Assets	-15.0	-3.7	5.8	15.1	-6.9	13.3	10.0	-15.2	-8.5	--
<i>50% JPM EMBI GD / 50% JPM GBI-EM</i>	<i>-14.8</i>	<i>-5.3</i>	<i>4.0</i>	<i>14.3</i>	<i>-5.2</i>	<i>12.7</i>	<i>10.2</i>	<i>-7.1</i>	<i>0.7</i>	<i>-7.1</i>
Metlife Emerging Markets Debt (Net)	-13.3	-3.7	6.1	14.5	-6.6	13.4	--	--	--	--
<i>MetLife Custom Benchmark</i>	<i>-13.5</i>	<i>-2.9</i>	<i>5.4</i>	<i>13.7</i>	<i>-4.0</i>	<i>10.6</i>	<i>10.0</i>	<i>-3.8</i>	<i>1.9</i>	<i>-5.2</i>
Aberdeen Emerging Markets Bond Fund	-16.2	-3.6	5.5	15.7	-7.1	13.3	--	--	--	--
<i>JP Morgan EMBI Global Diversified</i>	<i>-17.8</i>	<i>-1.8</i>	<i>5.3</i>	<i>15.0</i>	<i>-4.3</i>	<i>10.3</i>	<i>10.2</i>	<i>1.2</i>	<i>7.4</i>	<i>-5.3</i>
<i>JP Morgan GBI EM Global Diversified TR USD</i>	<i>-11.7</i>	<i>-8.7</i>	<i>2.7</i>	<i>13.5</i>	<i>-6.2</i>	<i>15.2</i>	<i>9.9</i>	<i>-14.9</i>	<i>-5.7</i>	<i>-9.0</i>

Metlife Custom Benchmark consists of 35% JP Morgan EMBI Global Diversified, 35% JP Morgan CEMBI Broad Diversified, and 30% JP Morgan GBI EM Global Diversified.

Retirement System Summary | As of December 31, 2022

	2022 (%)	2021 (%)	2020 (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)
Real Estate Assets	8.2	19.5	0.5	8.0	8.4	8.5	9.0	13.8	12.8	10.1
<i>NCREIF ODCE (net)</i>	6.6	21.0	0.3	4.4	7.4	6.7	7.8	14.0	11.5	12.9
TA Associates Realty Fund X	38.9	3.5	-6.4	37.5	12.9	13.1	12.2	14.8	12.3	--
<i>NCREIF ODCE (net)</i>	6.6	21.0	0.3	4.4	7.4	6.7	7.8	14.0	11.5	12.9
<i>NCREIF Property Index</i>	5.5	17.7	1.6	6.4	6.7	7.0	8.0	13.3	11.8	11.0
Intercontinental U.S. REIF (Net)	7.4	20.0	1.0	8.2	9.3	7.5	10.9	12.7	--	--
<i>NCREIF ODCE (net)</i>	6.6	21.0	0.3	4.4	7.4	6.7	7.8	14.0	11.5	12.9
AEW Core Property Trust (Net)	7.7	20.8	0.3	5.1	6.6	6.6	7.6	12.8	--	--
<i>NCREIF ODCE (net)</i>	6.6	21.0	0.3	4.4	7.4	6.7	7.8	14.0	11.5	12.9
AEW Partners IX, L.P.	5.6	--	--	--	--	--	--	--	--	--
<i>NCREIF ODCE (net)</i>	6.6	21.0	0.3	4.4	7.4	6.7	7.8	14.0	11.5	12.9
Private Equity Assets	11.1	46.1	25.3	15.7	13.7	11.8	6.3	0.8	13.5	9.5
<i>Preqin Private Equity 1Q Lagged</i>	6.2	44.7	17.0	10.2	15.7	18.0	10.2	10.9	16.4	15.1
Ascent Venture Partners - Fund V										
Ascent Venture Partners - Fund VI										
Constitution Capital Partners Ironsides III										
Constitution Capital Partners Ironsides IV										
Constitution Capital Partners Ironsides V										
Constitution Capital Direct IV										
Constitution Capital Direct V										
Constitution Capital Co-Investment Fund VI, L.P.										

Retirement System Summary | As of December 31, 2022

	2022 (%)	2021 (%)	2020 (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)
Goldman Sachs PEP 2005										
HarbourVest Partners VIII										
HarbourVest Partners IX										
HarbourVest X Buyout Fund										
HarbourVest Partners XI										
HarbourVest Fund XII										
Infrastructure Assets	8.2	17.4	3.1	14.6	--	--	--	--	--	--
<i>CPI + 3%</i>	<i>9.6</i>	<i>10.2</i>	<i>4.4</i>	<i>5.3</i>	<i>5.0</i>	<i>5.2</i>	<i>5.1</i>	<i>3.7</i>	<i>3.8</i>	<i>4.5</i>
IFM Global Infrastructure (U.S.), L.P.	8.2	17.4	3.1	14.6	--	--	--	--	--	--
<i>CPI + 3%</i>	<i>9.6</i>	<i>10.2</i>	<i>4.4</i>	<i>5.3</i>	<i>5.0</i>	<i>5.2</i>	<i>5.1</i>	<i>3.7</i>	<i>3.8</i>	<i>4.5</i>
Cash										
Cash STIF										

Statistics Summary						
5 Years Ending December 31, 2022						
	Anlzd Return	Anlzd Standard Deviation	Information Ratio	Beta	Sharpe Ratio	Tracking Error
Total Retirement System	6.6%	8.8%	0.8	0.7	0.6	4.7%
60% MSCI ACWI / 40% Barclays Global Aggregate	2.7%	12.2%	--	1.0	0.1	0.0%
Total Equity	5.0%	17.6%	-1.0	0.9	0.2	3.9%
Russell 3000	8.8%	19.2%	--	1.0	0.4	0.0%
Domestic Equity Assets	9.0%	19.2%	0.4	1.0	0.4	0.4%
Russell 3000	8.8%	19.2%	--	1.0	0.4	0.0%
SSgA Russell 1000 Value Index-NL	6.6%	18.9%	-1.2	1.0	0.3	0.1%
Russell 1000 Value	6.7%	18.9%	--	1.0	0.3	0.0%
SSgA Russell 1000 Growth-NL	10.8%	20.9%	-2.2	1.0	0.5	0.1%
Russell 1000 Growth	11.0%	20.9%	--	1.0	0.5	0.0%
SSgA Russell 2000 Index-NL	4.1%	23.5%	0.0	1.0	0.1	0.1%
Russell 2000	4.1%	23.5%	--	1.0	0.1	0.0%
International Equity Assets	-0.3%	16.5%	-0.4	0.9	-0.1	3.9%
MSCI ACWI ex USA IMI Gross	1.3%	17.5%	--	1.0	0.0	0.0%
Total International Developed Market Equity	1.2%	18.1%	-0.2	1.0	0.0	1.7%
MSCI EAFE	1.5%	17.5%	--	1.0	0.0	0.0%
SSgA MSCI EAFE Index-NL	1.8%	17.5%	1.8	1.0	0.0	0.1%
MSCI EAFE	1.5%	17.5%	--	1.0	0.0	0.0%

	Anlzd Return	Anlzd Standard Deviation	Information Ratio	Beta	Sharpe Ratio	Tracking Error
SSgA MSCI EAFE Small Cap Index-NL	-0.1%	19.4%	0.0	1.0	-0.1	0.2%
MSCI EAFE Small Cap	0.0%	19.6%	--	1.0	-0.1	0.0%
International Emerging Market Equity Assets	-1.7%	17.1%	0.0	0.8	-0.2	7.2%
MSCI Emerging Markets	-1.4%	18.8%	--	1.0	-0.1	0.0%
GQG Partners Emerging Markets	--	--	--	--	--	--
MSCI Emerging Markets	-1.4%	18.8%	--	1.0	-0.1	0.0%
Fixed Income Assets	1.0%	6.3%	0.3	1.1	0.0	3.1%
Bloomberg US Universal TR	0.2%	5.1%	--	1.0	-0.2	0.0%
Investment Grade Bond Assets	0.6%	5.0%	0.6	1.0	-0.1	0.9%
Bloomberg US Aggregate TR	0.0%	5.1%	--	1.0	-0.2	0.0%
Longfellow Investment Grade Bond	0.6%	5.0%	0.6	1.0	-0.1	0.9%
Bloomberg US Aggregate TR	0.0%	5.1%	--	1.0	-0.2	0.0%
High Yield Bond Assets	2.2%	10.4%	0.1	1.1	0.1	1.8%
CSFB High Yield Index	2.1%	9.3%	--	1.0	0.1	0.0%
Lord Abbett High Yield Core	--	--	--	--	--	--
Bloomberg US High Yield TR	2.3%	9.1%	--	1.0	0.1	0.0%
TIPS Assets	2.0%	5.8%	-1.1	1.0	0.1	0.1%
Bloomberg US TIPS TR	2.1%	5.8%	--	1.0	0.2	0.0%
SSgA TIPS-NL	2.0%	5.8%	-1.1	1.0	0.1	0.1%
Bloomberg US TIPS TR	2.1%	5.8%	--	1.0	0.2	0.0%

	Anlzd Return	Anlzd Standard Deviation	Information Ratio	Beta	Sharpe Ratio	Tracking Error
Emerging Market Debt Assets	-1.7%	12.3%	0.1	1.1	-0.2	2.7%
50% JPM EMBI GD / 50% JPM GBI-EM	-1.9%	11.0%	--	1.0	-0.3	0.0%
Metlife Emerging Markets Debt	-1.1%	12.4%	-0.1	1.3	-0.2	3.5%
MetLife Custom Benchmark	-0.7%	9.5%	--	1.0	-0.2	0.0%
Aberdeen Emerging Markets Bond Fund	-2.2%	12.3%	-0.3	1.1	-0.3	2.6%
JP Morgan EMBI Global Diversified	-1.3%	11.1%	--	1.0	-0.2	0.0%
Real Estate Assets	8.7%	6.2%	0.6	0.9	1.2	1.6%
NCREIF ODCE (net)	7.7%	6.6%	--	1.0	1.0	0.0%
TA Associates Realty Fund X	15.9%	16.4%	0.5	0.0	0.9	17.7%
NCREIF ODCE (net)	7.7%	6.6%	--	1.0	1.0	0.0%
Intercontinental U.S. REIF	9.0%	6.8%	0.6	1.0	1.1	2.1%
NCREIF ODCE (net)	7.7%	6.6%	--	1.0	1.0	0.0%
AEW Core Property Trust	7.9%	6.7%	0.1	1.0	1.0	1.9%
NCREIF ODCE (net)	7.7%	6.6%	--	1.0	1.0	0.0%
AEW Partners IX, L.P.	--	--	--	--	--	--
NCREIF ODCE (net)	7.7%	6.6%	--	1.0	1.0	0.0%
Private Equity Assets	21.8%	12.7%	1.1	1.0	1.6	3.3%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
Ascent Venture Partners - Fund V	-4.0%	12.6%	-1.7	0.5	-0.4	12.9%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%

	Anlzd Return	Anlzd Standard Deviation	Information Ratio	Beta	Sharpe Ratio	Tracking Error
Ascent Venture Partners - Fund VI	3.6%	6.9%	-1.3	0.2	0.4	11.1%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
Constitution Capital Partners Ironsides III	32.6%	17.1%	1.3	1.1	1.8	11.5%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
Constitution Capital Partners Ironsides IV	31.9%	16.9%	1.3	1.1	1.8	11.0%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
Constitution Capital Partners Ironsides V	--	--	--	--	--	--
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
Constitution Capital Direct IV	22.5%	18.6%	0.3	1.0	1.1	13.9%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
Constitution Capital Direct V	--	--	--	--	--	--
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
Constitution Capital Co-Investment Fund VI, L.P.	--	--	--	--	--	--
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
Goldman Sachs PEP 2005	5.5%	19.3%	-0.8	0.9	0.2	15.9%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
HarbourVest Partners VIII	15.2%	14.3%	-0.4	1.0	1.0	7.1%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
HarbourVest Partners IX	19.8%	14.6%	0.3	1.1	1.3	5.2%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%

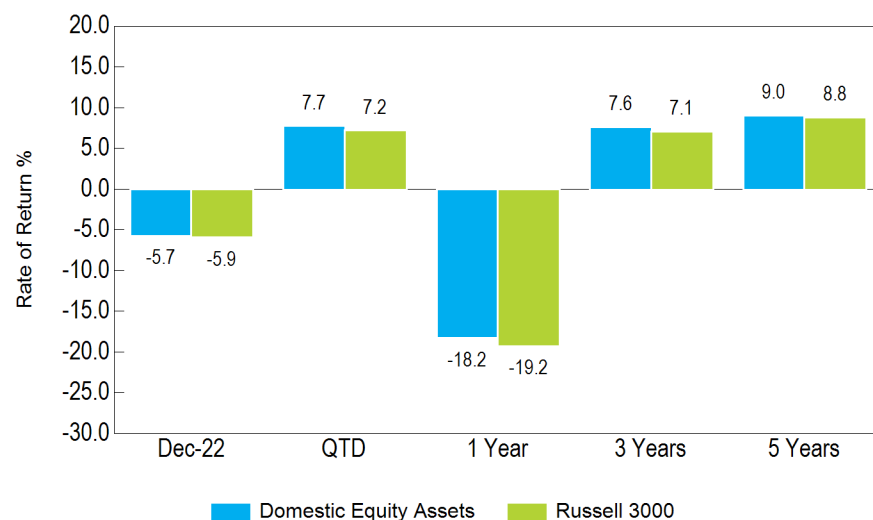
Retirement System Summary | As of December 31, 2022

	Anlzd Return	Anlzd Standard Deviation	Information Ratio	Beta	Sharpe Ratio	Tracking Error
HarbourVest X Buyout Fund	21.1%	15.1%	0.4	1.1	1.3	7.2%
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
HarbourVest Partners XI	--	--	--	--	--	--
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
HarbourVest Fund XII	--	--	--	--	--	--
Preqin Private Equity 1Q Lagged	18.0%	12.0%	--	1.0	1.4	0.0%
Infrastructure Assets	--	--	--	--	--	--
CPI + 3%	6.9%	1.4%	--	1.0	4.1	0.0%
IFM Global Infrastructure (U.S.), L.P.	--	--	--	--	--	--
CPI + 3%	6.9%	1.4%	--	1.0	4.1	0.0%

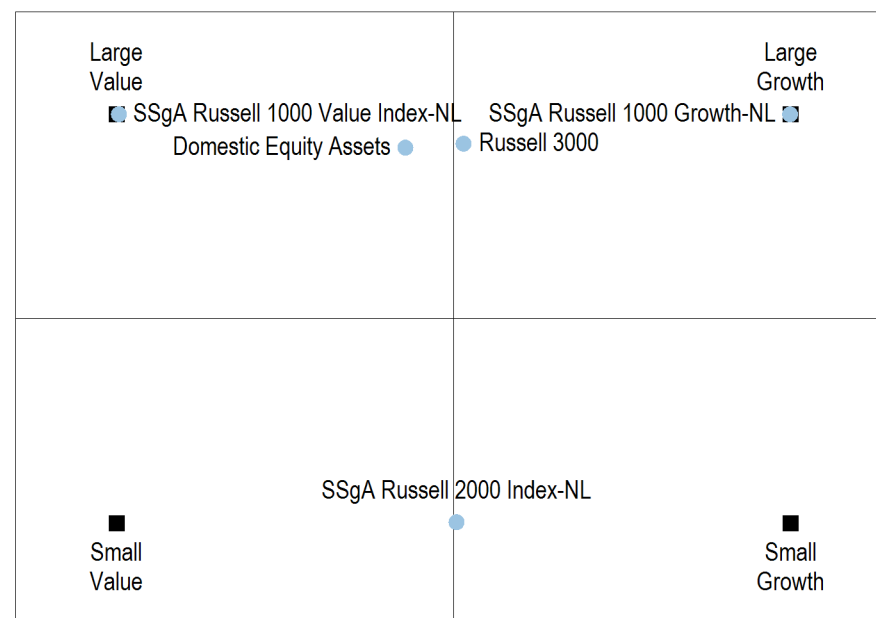
Asset Allocation on December 31, 2022

	Actual	Actual
SSgA Russell 1000 Growth-NL	\$19,845,299	38.6%
SSgA Russell 1000 Value Index-NL	\$27,406,056	53.3%
SSgA Russell 2000 Index-NL	\$4,213,702	8.2%
Total	\$51,465,057	100.0%

Return Summary Ending December 31, 2022



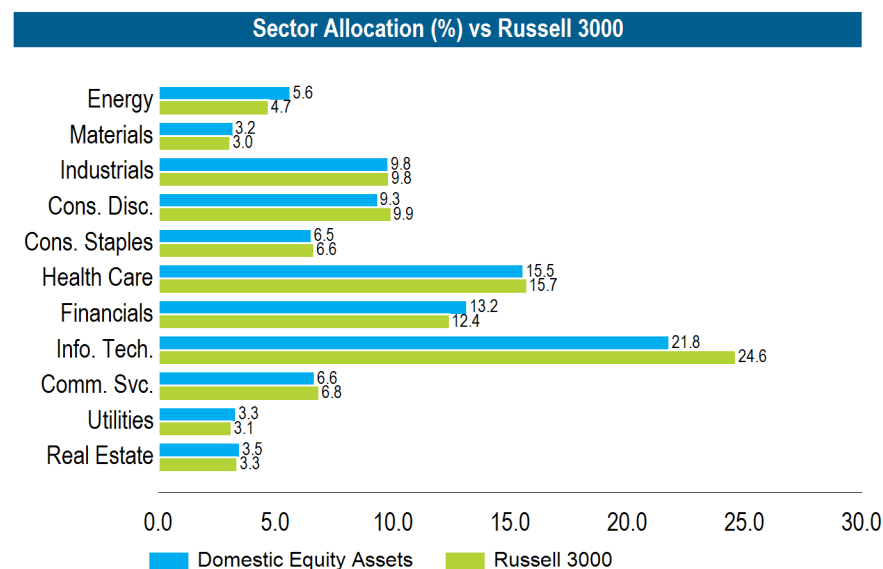
Domestic Equity Assets Style Map 3 Years Ending December 31, 2022



Domestic Equity Assets | As of December 31, 2022

Domestic Equity Assets Characteristics			
	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Market Value			
Market Value (\$M)	51.5	--	47.8
Number Of Holdings	2955	2960	2982
Characteristics			
Weighted Avg. Market Cap. (\$B)	326.2	360.3	361.7
Median Market Cap (\$B)	3.1	2.5	2.9
P/E Ratio	17.7	18.5	16.7
Yield	1.8	1.7	1.9
EPS Growth - 5 Yrs.	16.7	17.2	17.0
Price to Book	3.4	3.6	3.2

Top 10 Holdings	
APPLE INC	4.4%
MICROSOFT CORP	4.0%
AMAZON.COM INC	1.7%
BERKSHIRE HATHAWAY INC	1.6%
JOHNSON & JOHNSON	1.3%
EXXON MOBIL CORP	1.3%
ALPHABET INC	1.2%
UNITEDHEALTH GROUP INC	1.1%
JPMORGAN CHASE & CO	1.1%
ALPHABET INC	1.1%
Total	18.9%

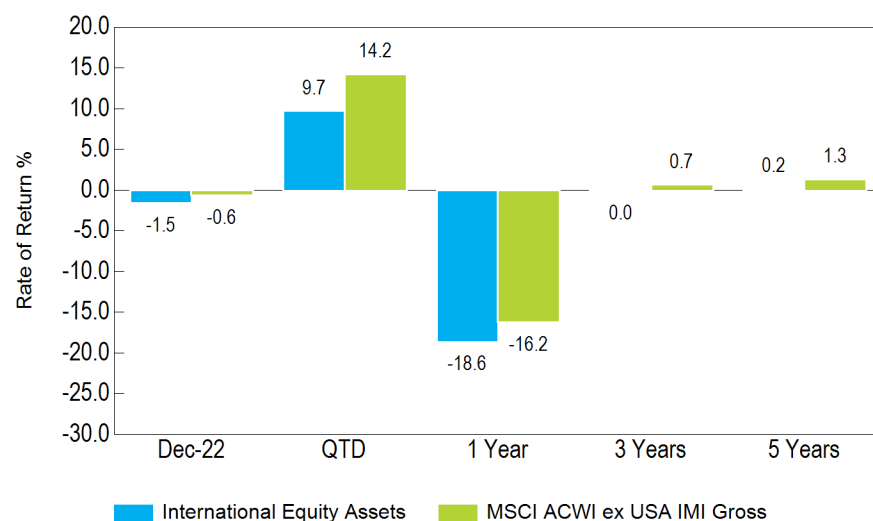


	Portfolio Q4-22	Index Q4-22
Sector Performance		
Energy	21.48	21.46
Materials	16.79	15.54
Industrials	17.44	16.52
Consumer Discretionary	-6.28	-7.58
Consumer Staples	13.01	12.56
Health Care	11.94	11.39
Financials	12.85	12.13
Information Technology	3.93	3.78
Communication Services	-1.05	-1.84
Utilities	9.26	8.63
Real Estate	4.87	4.18

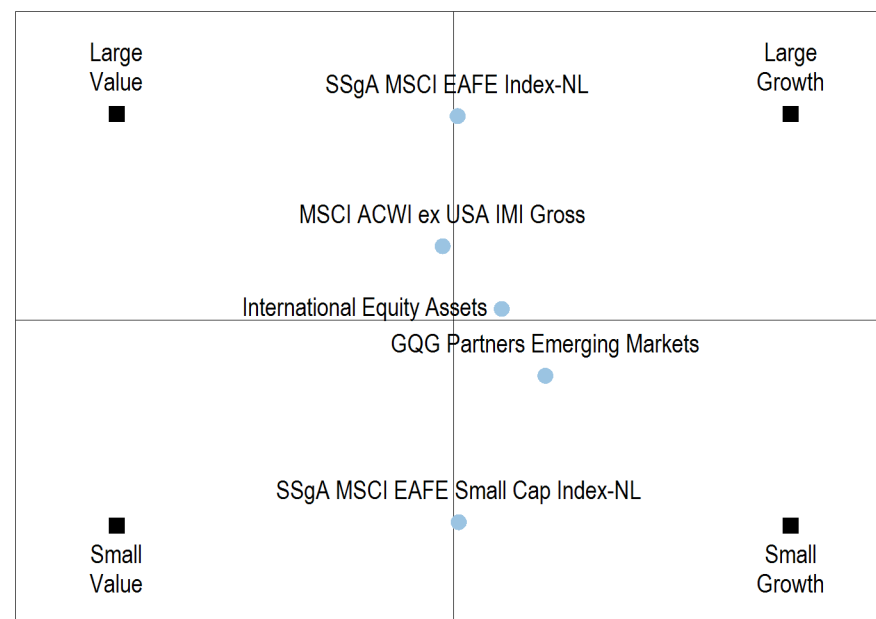
Asset Allocation on December 31, 2022

	Actual	Actual
GQG Partners Emerging Markets	\$18,829,798	50.0%
SSgA MSCI EAFE Index-NL	\$12,979,262	34.5%
SSgA MSCI EAFE Small Cap Index-NL	\$5,829,640	15.5%
Total	\$37,638,700	100.0%

Return Summary Ending December 31, 2022



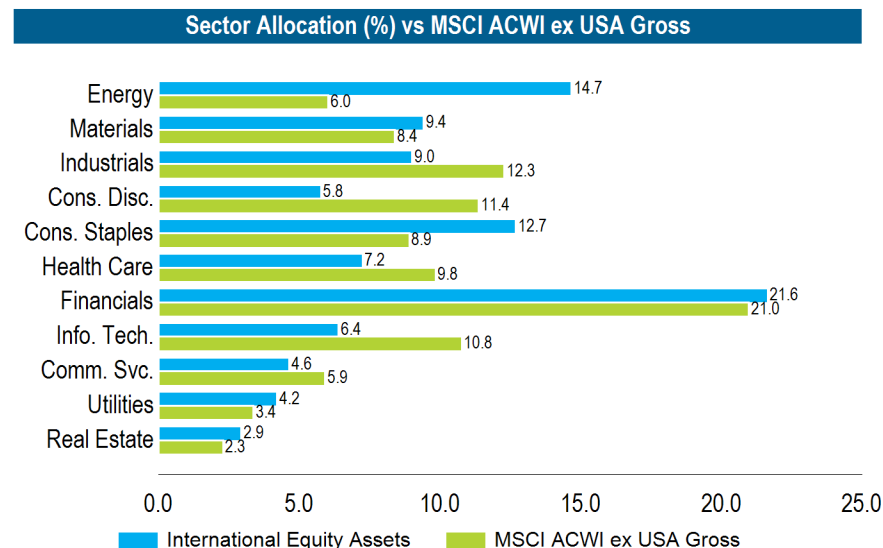
International Equity Assets Style Map 3 Years Ending December 31, 2022



International Equity Assets | As of December 31, 2022

Total International Equity Characteristics			
	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Market Value			
Market Value (\$M)	37.6	--	34.3
Number Of Holdings	3263	2259	3295
Characteristics			
Weighted Avg. Market Cap. (\$B)	71.1	80.7	68.2
Median Market Cap (\$B)	1.8	8.9	1.6
P/E Ratio	11.6	12.8	10.2
Yield	5.8	3.4	5.7
EPS Growth - 5 Yrs.	14.6	11.6	14.1
Price to Book	2.3	2.4	2.4

Top 10 Holdings	
ITC LTD	3.3%
VALE SA	3.1%
HOUSING DEVELOPMENT FINANCE CORP LTD	2.7%
TOTALENERGIES SE	2.3%
PETROLEO BRASILEIRO S.A.- PETROBRAS	2.3%
RELIANCE INDUSTRIES LTD	2.0%
ITAU UNIBANCO HOLDING PN	1.5%
ICICI BANK	1.5%
CENTRAIS ELETRICAS BRASILEIRAS SA-ELETOBRAS	1.5%
PETROLEO BRASILEIRO S.A.- PETROBRAS	1.3%
Total	21.4%



	Portfolio Q4-22	Index Q4-22
Sector Performance		
Energy	15.03	13.96
Materials	18.79	16.85
Industrials	18.84	17.54
Consumer Discretionary	9.73	14.69
Consumer Staples	4.61	9.77
Health Care	11.50	14.10
Financials	14.92	15.63
Information Technology	7.39	13.64
Communication Services	2.55	12.13
Utilities	13.52	12.95
Real Estate	12.26	10.56

Total International Equity Region Allocation			
vs MSCI ACWI ex USA Gross			
Region	% of Total	% of Bench	% Diff
North America ex U.S.	0.0%	7.7%	-7.7%
United States	3.4%	0.0%	3.4%
Europe Ex U.K.	28.7%	31.7%	-3.0%
United Kingdom	6.8%	9.8%	-3.0%
Pacific Basin Ex Japan	6.5%	8.1%	-1.6%
Japan	12.5%	14.0%	-1.6%
Emerging Markets	41.2%	28.0%	13.2%
Other	1.0%	0.7%	0.3%
Total	100.0%	100.0%	0.0%

Total International Equity Country Allocation				
vs MSCI ACWI ex USA Gross				
Country	% of Total	% of Bench	% Diff	
ARGENTINA	0.0%	0.0%	0.0%	
AUSTRALIA	3.7%	5.1%	-1.3%	
AUSTRIA	0.2%	0.1%	0.1%	
BAHRAIN	0.0%	0.0%	0.0%	
BANGLADESH	0.0%	0.0%	0.0%	
BELGIUM	0.5%	0.7%	-0.1%	
BRAZIL	11.3%	1.5%	9.8%	
CANADA	0.0%	7.7%	-7.7%	
CHILE	0.0%	0.2%	-0.2%	
CHINA	3.3%	9.2%	-5.9%	
COLOMBIA	0.0%	0.0%	0.0%	
CROATIA	0.0%	0.0%	0.0%	
CZECH REPUBLIC	0.0%	0.0%	0.0%	
DENMARK	1.3%	1.9%	-0.6%	
EGYPT	0.0%	0.0%	0.0%	
ESTONIA	0.0%	0.0%	0.0%	
FINLAND	0.7%	0.7%	0.0%	
FRANCE	6.3%	7.6%	-1.3%	
GERMANY	3.3%	5.2%	-1.9%	
GREECE	0.0%	0.1%	-0.1%	

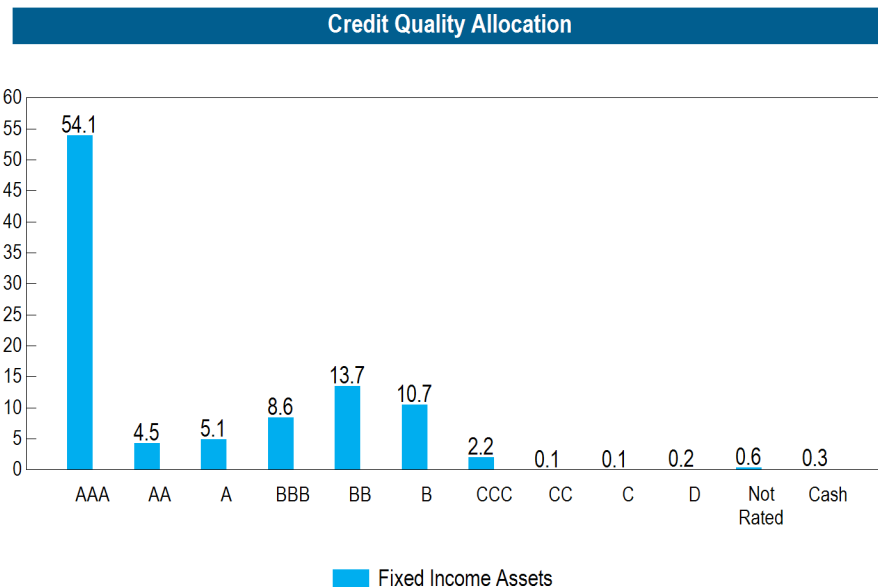
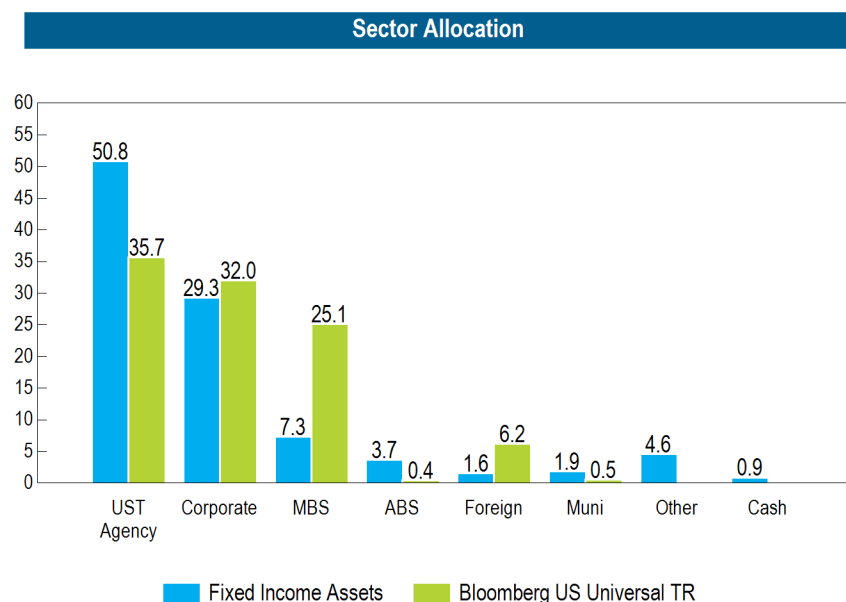
Country	% of Total	% of Bench	% Diff
HONG KONG	1.7%	1.9%	-0.3%
HUNGARY	0.0%	0.1%	-0.1%
INDIA	17.1%	4.1%	13.0%
INDONESIA	2.2%	0.5%	1.7%
IRELAND	0.5%	0.4%	0.0%
ISRAEL	0.7%	0.5%	0.2%
ITALY	2.0%	1.5%	0.5%
JAPAN	12.5%	14.0%	-1.6%
JORDAN	0.0%	0.0%	0.0%
KAZAKHSTAN	0.0%	0.0%	0.0%
KENYA	0.0%	0.0%	0.0%
KOREA	1.1%	3.2%	-2.1%
KUWAIT	0.0%	0.3%	-0.3%
LEBANON	0.0%	0.0%	0.0%
LITHUANIA	0.0%	0.0%	0.0%
LUXEMBOURG	0.2%	0.0%	0.2%
MALAYSIA	0.0%	0.4%	-0.4%
MAURITIUS	0.0%	0.0%	0.0%
MEXICO	2.9%	0.6%	2.3%
MOROCCO	0.0%	0.0%	0.0%
NETHERLANDS	5.8%	2.7%	3.0%
NEW ZEALAND	0.3%	0.1%	0.2%
NIGERIA	0.0%	0.0%	0.0%

Country	% of Total	% of Bench	% Diff
NORWAY	0.6%	0.5%	0.1%
OMAN	0.0%	0.0%	0.0%
OTHER	0.3%	0.0%	0.3%
PAKISTAN	0.0%	0.0%	0.0%
PERU	0.0%	0.1%	-0.1%
PHILIPPINES	0.0%	0.2%	-0.2%
POLAND	0.0%	0.2%	-0.2%
PORTUGAL	0.1%	0.1%	0.0%
QATAR	0.0%	0.3%	-0.3%
ROMANIA	0.0%	0.0%	0.0%
RUSSIA	0.0%	0.0%	0.0%
SAUDI ARABIA	0.0%	1.2%	-1.2%
SERBIA	0.0%	0.0%	0.0%
SINGAPORE	0.8%	1.0%	-0.1%
SLOVENIA	0.0%	0.0%	0.0%
SOUTH AFRICA	0.1%	1.0%	-0.9%
SPAIN	1.1%	1.6%	-0.4%
SRI LANKA	0.0%	0.0%	0.0%
SWEDEN	1.9%	2.1%	-0.3%
SWITZERLAND	4.2%	6.5%	-2.3%
TAIWAN	1.7%	3.9%	-2.2%
THAILAND	0.6%	0.6%	0.0%
TUNISIA	0.0%	0.0%	0.0%

Country	% of Total	% of Bench	% Diff
TURKEY	0.7%	0.2%	0.5%
UNITED ARAB EMIRATES	0.0%	0.4%	-0.4%
UNITED KINGDOM	6.8%	9.8%	-3.0%
UNITED STATES	3.4%	0.0%	3.4%
VIETNAM	0.0%	0.0%	0.0%
Total	100.0%	100.0%	0.0%

Asset Allocation on December 31, 2022		
	Actual	Actual
Aberdeen Emerging Markets Bond Fund	\$5,162,190	10.8%
Longfellow Investment Grade Bond	\$18,298,298	38.4%
Lord Abbett High Yield Core	\$8,647,466	18.1%
Metlife Emerging Markets Debt	\$3,781,585	7.9%
SSgA TIPS-NL	\$11,797,574	24.7%
Total	\$47,687,113	100.0%

Total Fixed Income Fixed Income Characteristics vs. Bloomberg US Universal TR			
	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Fixed Income Characteristics			
Yield to Maturity	5.73	5.11	6.45
Average Duration	5.86	6.00	5.64
Average Quality	AA	AA	A
Weighted Average Maturity	8.43	8.25	8.05



Account Information

Account Name	SSgA Russell 1000 Value Index-NL
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	1/01/05
Account Type	Equity
Benchmark	Russell 1000 Value
Universe	eV US Large Cap Value Equity Gross

Portfolio Performance Summary

	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
SSgA Russell 1000 Value Index-NL	12.4	-7.6	6.0	6.7	7.4	Jan-05
<i>Russell 1000 Value</i>	12.4	-7.5	6.0	6.7	7.3	Jan-05
<i>eV US Large Cap Value Equity Gross Median</i>	12.8	-5.4	8.0	8.3	8.5	Jan-05
<i>eV US Large Cap Value Equity Gross Rank</i>	58	70	85	80	88	Jan-05

Top 10 Holdings

BERKSHIRE HATHAWAY INC	3.0%
JOHNSON & JOHNSON	2.5%
EXXON MOBIL CORP	2.5%
JPMORGAN CHASE & CO	2.1%
CHEVRON CORP	1.9%
PFIZER INC	1.6%
BANK OF AMERICA CORP	1.3%
META PLATFORMS INC	1.2%
PROCTER & GAMBLE CO (THE)	1.1%
WALMART INC	1.1%
Total	18.2%

SSgA Russell 1000 Value Index-NL Characteristics

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Market Value			
Market Value (\$M)	27.4	--	24.4
Number Of Holdings	854	852	850
Characteristics			
Weighted Avg. Market Cap. (\$B)	152.0	152.3	135.1
Median Market Cap (\$B)	11.9	11.9	11.6
P/E Ratio	15.3	15.6	14.0
Yield	2.3	2.3	2.5
EPS Growth - 5 Yrs.	12.6	12.6	12.4
Price to Book	2.5	2.5	2.3
Sector Distribution			
Energy	8.4	7.6	7.8
Materials	4.3	4.4	4.1
Industrials	10.4	10.7	10.0
Consumer Discretionary	5.9	5.8	5.9
Consumer Staples	7.3	7.4	7.2
Health Care	17.2	17.6	17.2
Financials	19.9	20.4	19.9
Information Technology	8.2	8.4	8.7
Communication Services	7.2	7.4	8.0
Utilities	5.6	5.9	5.8
Real Estate	4.4	4.5	4.8

Account Information

Account Name	SSgA Russell 1000 Growth-NL
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	7/01/07
Account Type	Equity
Benchmark	Russell 1000 Growth
Universe	eV US Large Cap Growth Equity Gross

Portfolio Performance Summary

	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
SSgA Russell 1000 Growth-NL	2.2	-29.1	7.8	10.9	10.2	Jul-07
<i>Russell 1000 Growth</i>	2.2	-29.1	7.8	11.0	10.2	Jul-07
<i>eV US Large Cap Growth Equity Gross Median</i>	3.9	-29.1	6.6	10.2	9.8	Jul-07
<i>eV US Large Cap Growth Equity Gross Rank</i>	71	51	34	34	32	Jul-07

Top 10 Holdings

APPLE INC	11.3%
MICROSOFT CORP	10.4%
AMAZON.COM INC	4.3%
ALPHABET INC	2.7%
UNITEDHEALTH GROUP INC	2.6%
ALPHABET INC	2.4%
NVIDIA CORPORATION	2.0%
VISA INC	2.0%
TESLA INC	1.8%
MASTERCARD INC	1.7%
Total	41.2%

SSgA Russell 1000 Growth-NL Characteristics

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Market Value			
Market Value (\$M)	19.8	--	19.4
Number Of Holdings	500	512	504

Characteristics

Weighted Avg. Market Cap. (\$B)	627.0	626.2	709.6
Median Market Cap (\$B)	16.1	15.9	15.3
P/E Ratio	24.6	24.7	24.9
Yield	1.1	1.1	1.1
EPS Growth - 5 Yrs.	22.2	22.1	23.2
Price to Book	8.6	8.6	9.0

Sector Distribution

Energy	1.7	1.3	1.6
Materials	1.4	1.5	1.4
Industrials	7.9	8.1	7.1
Consumer Discretionary	14.0	14.2	17.0
Consumer Staples	6.1	6.1	5.7
Health Care	13.3	13.5	12.2
Financials	3.2	3.3	3.0
Information Technology	42.7	43.4	42.6
Communication Services	6.7	6.8	7.6
Utilities	0.1	0.1	0.0
Real Estate	1.6	1.6	1.6

SSgA Russell 2000 Index-NL | As of December 31, 2022

Account Information

Account Name	SSgA Russell 2000 Index-NL
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	8/01/10
Account Type	Equity
Benchmark	Russell 2000
Universe	eV US Small Cap Core Equity Gross

Portfolio Performance Summary

	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
SSgA Russell 2000 Index-NL	6.3	-20.3	3.2	4.2	9.9	Aug-10
Russell 2000	6.2	-20.4	3.1	4.1	9.8	Aug-10
eV US Small Cap Core Equity Gross Median	9.1	-16.1	6.9	7.0	11.9	Aug-10
eV US Small Cap Core Equity Gross Rank	85	79	94	90	94	Aug-10

Top 10 Holdings

MISCELLANEOUS SECURITIES	3.8%
CASH - USD	3.7%
HALOZYME THERAPEUTICS INC	0.3%
SHOCKWAVE MEDICAL INC	0.3%
INSPIRE MEDICAL SYSTEMS INC	0.3%
EMCOR GROUP INC.	0.3%
CROCS INC	0.3%
MATADOR RESOURCES CO	0.3%
IRIDIUM COMMUNICATIONS INC	0.3%
MURPHY OIL CORP	0.3%
Total	9.7%

SSgA Russell 2000 Index-NL Characteristics

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Market Value			
Market Value (\$M)	4.2	--	4.0
Number Of Holdings	1944	1950	1964
Characteristics			
Weighted Avg. Market Cap. (\$B)	2.8	2.8	2.6
Median Market Cap (\$B)	1.1	1.1	1.0
P/E Ratio	12.1	12.2	11.6
Yield	1.6	1.6	1.7
EPS Growth - 5 Yrs.	17.1	17.1	15.7
Price to Book	2.2	2.2	2.2
Sector Distribution			
Energy	6.1	6.8	5.6
Materials	4.0	4.3	3.8
Industrials	14.4	15.5	13.9
Consumer Discretionary	9.5	10.3	9.5
Consumer Staples	3.3	3.6	3.2
Health Care	15.2	16.9	17.2
Financials	15.7	17.2	16.0
Information Technology	11.4	12.8	11.7
Communication Services	2.4	2.5	2.5
Utilities	3.2	3.5	3.2
Real Estate	5.8	6.4	5.9

SSgA MSCI EAFE Index-NL | As of December 31, 2022

Account Information

Account Name	SSgA MSCI EAFE Index-NL
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	8/01/10
Account Type	Equity
Benchmark	MSCI EAFE
Universe	eV EAFE Core Equity Gross

Portfolio Performance Summary

	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
SSgA MSCI EAFE Index-NL	17.4	-14.1	1.2	1.9	5.4	Aug-10
MSCI EAFE	17.3	-14.5	0.9	1.5	5.1	Aug-10
eV EAFE Core Equity Gross Median	16.3	-16.4	1.4	1.9	6.7	Aug-10
eV EAFE Core Equity Gross Rank	27	31	54	53	88	Aug-10

Top 10 Holdings

NESTLE SA, CHAM UND VEVEY	2.2%
ASML HOLDING NV	1.6%
NOVO NORDISK 'B'	1.6%
ROCHE HOLDING AG	1.5%
ASTRAZENECA PLC	1.5%
SHELL PLC	1.4%
LVMH MOET HENNESSY LOUIS VUITTON SE	1.4%
NOVARTIS AG	1.3%
BHP GROUP LTD	1.1%
TOTALENERGIES SE	1.1%
Total	14.7%

SSgA MSCI EAFE Index-NL Characteristics

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Market Value			
Market Value (\$M)	13.0	--	11.1
Number Of Holdings	794	796	799
Characteristics			
Weighted Avg. Market Cap. (\$B)	77.7	78.1	67.3
Median Market Cap (\$B)	11.8	11.8	10.4
P/E Ratio	14.0	13.7	12.4
Yield	3.3	3.4	3.6
EPS Growth - 5 Yrs.	9.6	9.9	11.3
Price to Book	2.5	2.4	2.4
Sector Distribution			
Energy	5.0	5.0	4.9
Materials	6.7	7.8	6.5
Industrials	15.0	15.1	15.0
Consumer Discretionary	11.0	11.1	10.9
Consumer Staples	10.3	10.5	11.0
Health Care	13.5	13.6	13.8
Financials	18.7	18.7	17.7
Information Technology	7.9	7.8	8.0
Communication Services	4.5	4.5	4.8
Utilities	3.5	3.5	3.4
Real Estate	2.5	2.6	2.7

Account Information

Account Name	SSgA MSCI EAFE Small Cap Index-NL
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	8/01/10
Account Type	Equity
Benchmark	MSCI EAFE Small Cap
Universe	eV EAFE Small Cap Core Gross

Portfolio Performance Summary

	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
SSgA MSCI EAFE Small Cap Index-NL	15.7	-20.9	-0.7	0.2	6.9	Aug-10
MSCI EAFE Small Cap	15.8	-21.4	-0.9	0.0	6.7	Aug-10
eV EAFE Small Cap Core Gross Median	16.3	-19.8	0.7	1.2	8.3	Aug-10
eV EAFE Small Cap Core Gross Rank	64	60	73	65	97	Aug-10

Top 10 Holdings

CENTRICA PLC	0.3%
METSO OUTOTEC OYJ	0.3%
ASR NEDERLAND NV	0.3%
ATLAS ARTERIA LIMITED	0.3%
OZ MINERALS LIMITED	0.3%
TRELLEBORG AB	0.2%
TECAN GROUP AG	0.2%
PSP SWISS PROPERTY AG, ZUG	0.2%
WHITEHAVEN COAL	0.2%
D S SMITHPLC	0.2%
Total	2.5%

SSgA MSCI EAFE Small Cap Index-NL Characteristics

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Market Value			
Market Value (\$M)	5.8	--	5.0
Number Of Holdings	2427	2276	2465
Characteristics			
Weighted Avg. Market Cap. (\$B)	2.6	2.6	2.3
Median Market Cap (\$B)	1.1	1.2	1.0
P/E Ratio	12.0	11.9	10.8
Yield	3.4	3.4	3.6
EPS Growth - 5 Yrs.	8.5	8.6	9.3
Price to Book	2.1	2.1	2.1
Sector Distribution			
Energy	2.8	2.9	2.9
Materials	9.4	9.5	9.7
Industrials	22.6	22.9	22.1
Consumer Discretionary	12.2	12.3	11.8
Consumer Staples	6.4	6.5	6.4
Health Care	6.8	6.8	6.7
Financials	11.7	11.9	11.5
Information Technology	9.0	9.2	9.0
Communication Services	3.9	3.9	3.9
Utilities	3.1	3.2	3.2
Real Estate	11.0	11.0	11.5

Account Information

Account Name	GQG Partners Emerging Markets
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	3/31/19
Account Type	Non-US Stock Emerging
Benchmark	MSCI Emerging Markets
Universe	eV Emg Mkts Equity Gross

Portfolio Performance Summary

	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
GQG Partners Emerging Markets	3.4	-20.7	2.0	--	4.2	Mar-19
MSCI Emerging Markets	9.7	-20.1	-2.7	-1.4	-0.2	Mar-19
eV Emg Mkts Equity Gross Median	10.4	-19.4	-1.2	-0.1	1.5	Mar-19
eV Emg Mkts Equity Gross Rank	98	62	24	--	21	Mar-19

Top 10 Holdings

ITC LTD	6.5%
VALE SA	6.1%
HOUSING DEVELOPMENT FINANCE CORP LTD	5.3%
PETROLEO BRASILEIRO S.A.- PETROBRAS	4.5%
RELIANCE INDUSTRIES LTD	3.9%
TOTALENERGIES SE	3.9%
ITAU UNIBANCO HOLDING PN	3.0%
ICICI BANK	2.9%
CENTRAIS ELETRICAS BRASILEIRAS SA-ELETOBRAS	2.9%
PETROLEO BRASILEIRO S.A.- PETROBRAS	2.6%
Total	41.6%

GQG Partners Emerging Markets Characteristics

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Market Value			
Market Value (\$M)	18.8	--	18.2
Number Of Holdings	69	1375	62
Characteristics			
Weighted Avg. Market Cap. (\$B)	88.0	95.7	87.0
Median Market Cap (\$B)	29.4	6.5	44.8
P/E Ratio	8.6	11.4	8.2
Yield	8.1	3.4	7.4
EPS Growth - 5 Yrs.	23.9	14.6	18.5
Price to Book	2.3	2.6	2.5
Sector Distribution			
Energy	24.7	4.9	22.5
Materials	11.2	8.9	8.5
Industrials	0.8	6.1	0.0
Consumer Discretionary	0.3	14.1	4.0
Consumer Staples	16.2	6.4	15.9
Health Care	3.3	4.1	3.2
Financials	26.6	22.1	25.4
Information Technology	4.6	18.6	8.9
Communication Services	4.9	9.9	6.3
Utilities	5.0	3.0	3.5
Real Estate	0.7	1.9	0.0

Longfellow Investment Grade Bond | As of December 31, 2022

Account Information

Account Name	Longfellow Investment Grade Bond
Account Structure	Separate Account
Investment Style	Active
Inception Date	9/01/17
Account Type	Fixed
Benchmark	Bloomberg US Aggregate TR
Universe	eV US Core Fixed Inc Gross

Portfolio Performance Summary

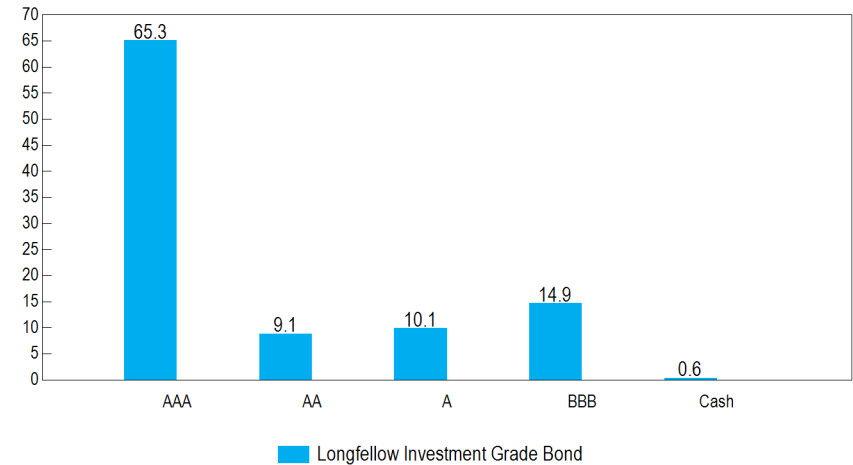
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
Longfellow Investment Grade Bond	1.7	-13.1	-1.8	0.6	0.6	Sep-17
Bloomberg US Aggregate TR	1.9	-13.0	-2.7	0.0	0.0	Sep-17
eV US Core Fixed Inc Gross Median	1.9	-12.8	-2.1	0.5	0.5	Sep-17
eV US Core Fixed Inc Gross Rank	64	69	28	36	41	Sep-17

Longfellow Investment Grade Bond Characteristics

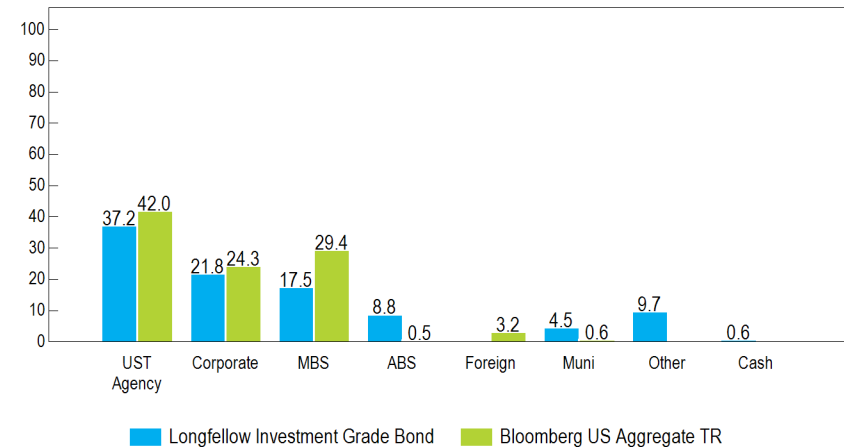
vs. Bloomberg US Aggregate TR

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Fixed Income Characteristics			
Yield to Maturity	5.3	4.6	5.3
Average Duration	6.0	6.2	6.1
Average Quality	AA	AA	AA
Weighted Average Maturity	8.3	8.4	8.6

Credit Quality Allocation



Sector Allocation



Lord Abbett High Yield Core | As of December 31, 2022

Account Information

Account Name	Lord Abbett High Yield Core
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	7/01/19
Account Type	Fixed
Benchmark	Bloomberg US High Yield TR
Universe	eV US High Yield Fixed Inc Gross

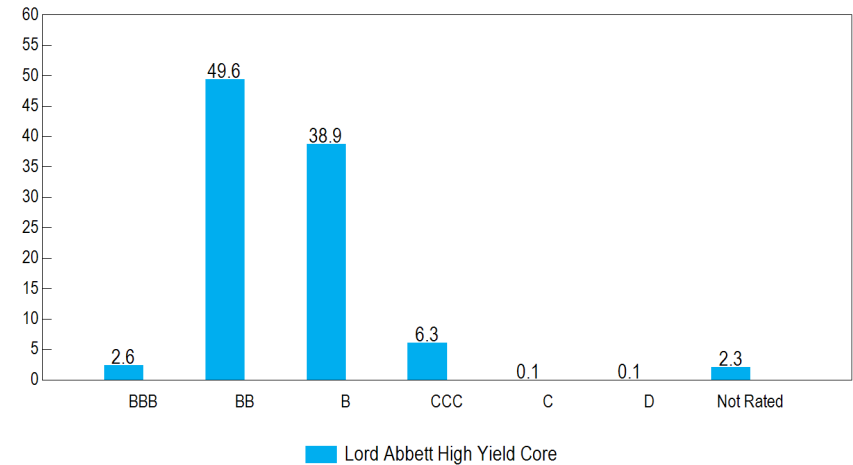
Portfolio Performance Summary

	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
Lord Abbett High Yield Core	3.8	-12.5	0.5	--	1.5	Jul-19
Bloomberg US High Yield TR	4.2	-11.2	0.0	2.3	1.2	Jul-19
eV US High Yield Fixed Inc Gross Median	4.1	-9.5	0.8	2.8	1.8	Jul-19
eV US High Yield Fixed Inc Gross Rank	67	95	61	--	63	Jul-19

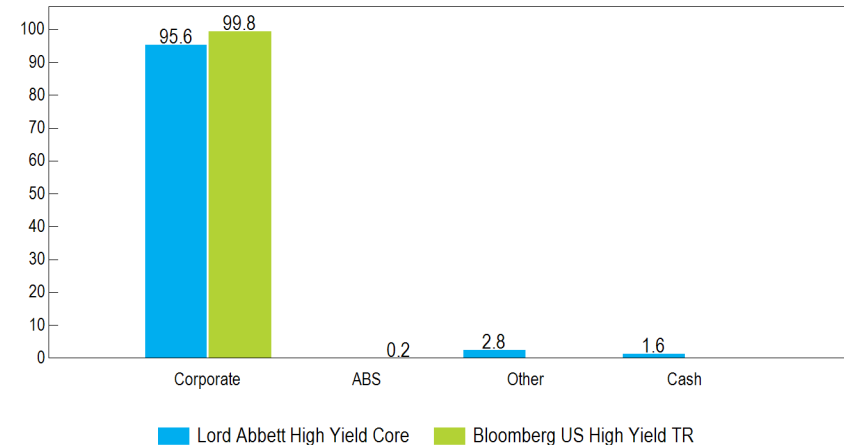
Lord Abbett High Yield Core Characteristics vs. Bloomberg US High Yield TR

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Fixed Income Characteristics			
Yield to Maturity	8.1	8.9	8.8
Average Duration	4.3	4.3	4.2
Average Quality	B	B	B
Weighted Average Maturity	5.9	5.5	6.1

Credit Quality Allocation



Sector Allocation



Account Information

Account Name	SSgA TIPS-NL
Account Structure	Commingled Fund
Investment Style	Passive
Inception Date	7/01/07
Account Type	Fixed
Benchmark	Bloomberg US TIPS TR
Universe	eV US TIPS / Inflation Fixed Inc Gross

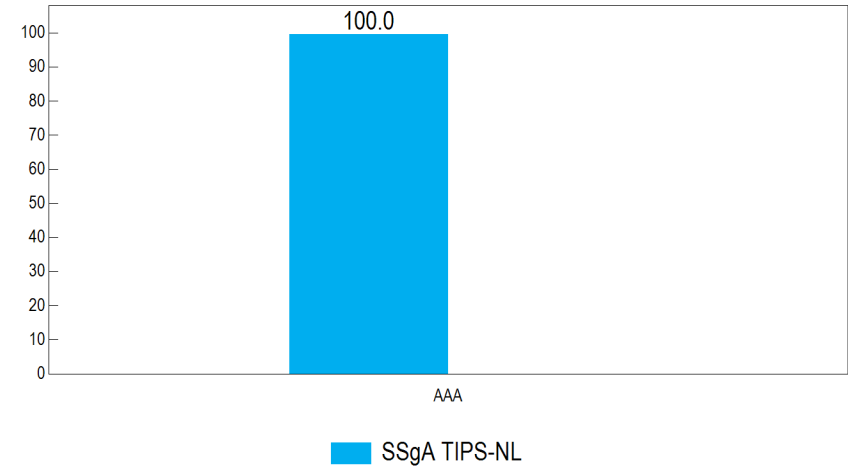
Portfolio Performance Summary

	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
SSgA TIPS-NL	1.8	-12.0	1.1	2.1	3.5	Jul-07
Bloomberg US TIPS TR	2.0	-11.8	1.2	2.1	3.6	Jul-07
eV US TIPS / Inflation Fixed Inc Gross Median	2.1	-11.3	1.5	2.4	3.7	Jul-07
eV US TIPS / Inflation Fixed Inc Gross Rank	70	85	92	89	76	Jul-07

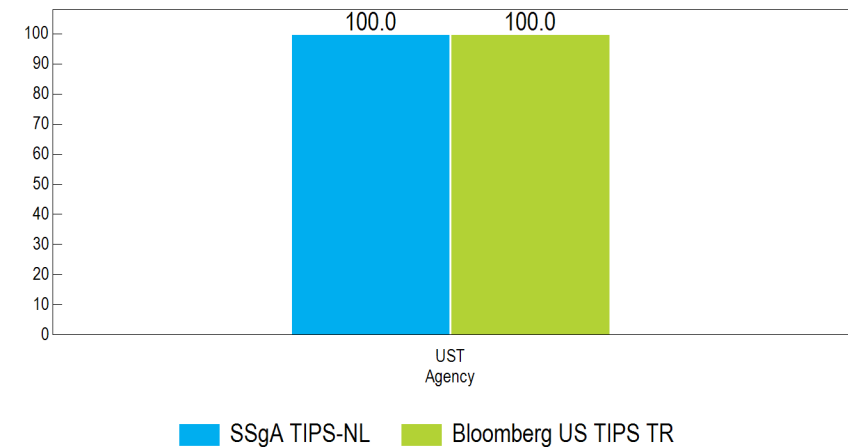
SSgA TIPS-NL Characteristics vs. Bloomberg US TIPS TR

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Fixed Income Characteristics			
Yield to Maturity	4.3	4.1	4.2
Average Duration	5.4	6.6	5.9
Average Quality	AAA	AA	AAA
Weighted Average Maturity	7.1	7.1	7.3

Credit Quality Allocation



Sector Allocation



Aberdeen Emerging Markets Bond Fund | As of December 31, 2022

Account Information

Account Name	Aberdeen Emerging Markets Bond Fund
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	12/01/16
Account Type	Fixed
Benchmark	JP Morgan EMBI Global Diversified
Universe	

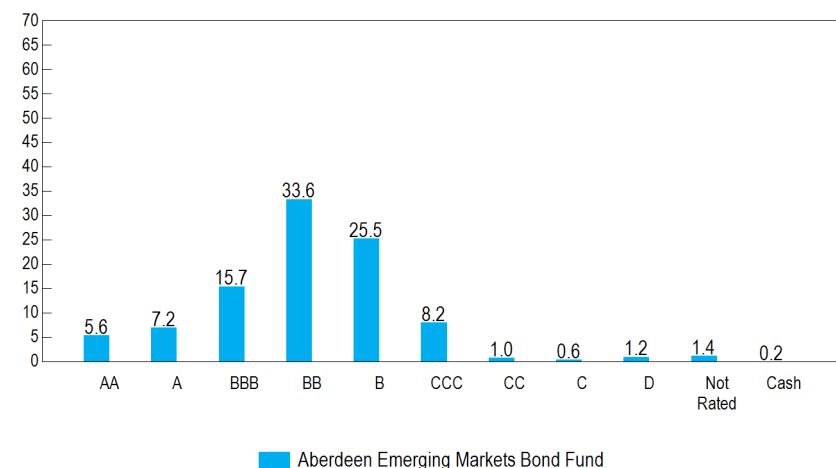
Portfolio Performance Summary

	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
Aberdeen Emerging Markets Bond Fund	10.3	-16.2	-5.2	-1.7	0.6	Dec-16
JP Morgan EMBI Global Diversified	8.1	-17.8	-5.3	-1.3	0.7	Dec-16
JP Morgan GBI EM Global Diversified TR USD	8.5	-11.7	-6.1	-2.5	0.5	Dec-16

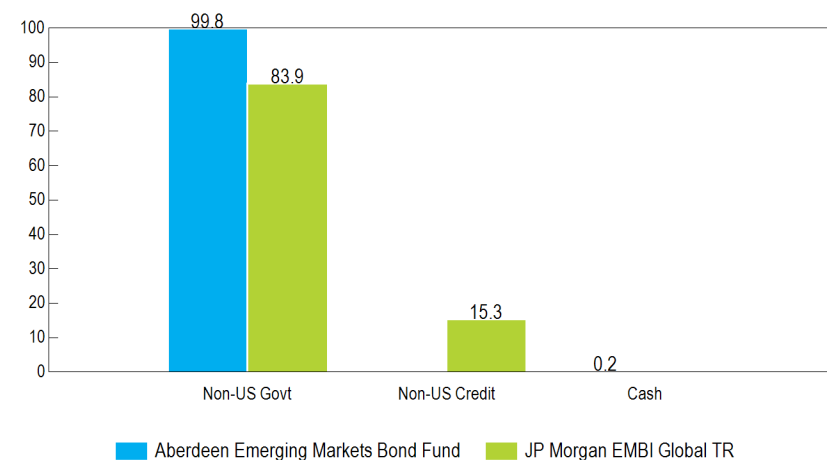
Aberdeen Emerging Markets Bond Fund Fixed Income Characteristics vs. JP Morgan EMBI Global TR

	Portfolio Q4-22	Index Q4-22	Portfolio Q3-22
Fixed Income Characteristics			
Yield to Maturity	10.6	7.2	12.7
Average Duration	6.6	7.0	5.9
Average Quality	BB	BBB	BB
Weighted Average Maturity	12.1	11.9	11.1

Credit Quality Allocation



Global Sector Allocation



Intercontinental U.S. REIF | As of December 31, 2022

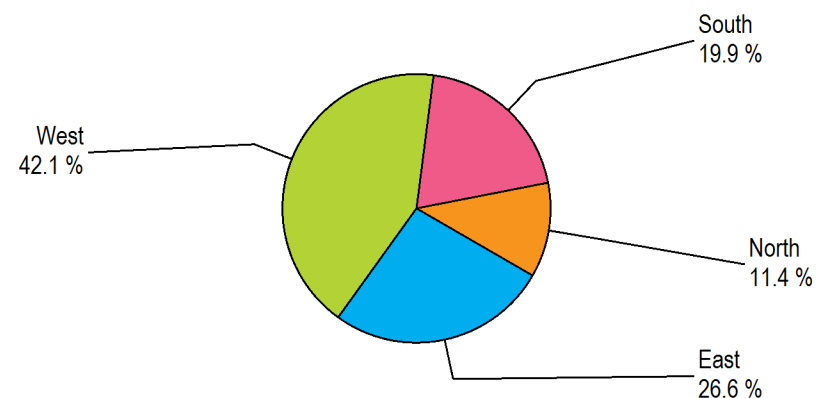
Account Information

Account Name	Intercontinental U.S. REIF
Account Structure	Other
Investment Style	Active
Inception Date	10/01/14
Account Type	Real Estate
Benchmark	NCREIF ODCE (net)
Universe	

Portfolio Performance Summary

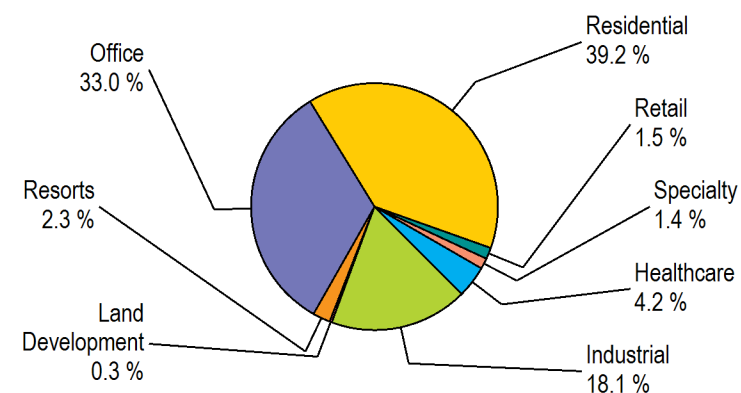
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
Intercontinental U.S. REIF	-6.0	8.3	9.6	9.2	10.4	Oct-14
NCREIF ODCE (net)	-5.1	6.6	9.0	7.7	8.5	Oct-14

Geographic Diversification



North represents Midwest.

Property Type Allocation



Note: As of September 30, 2022, the number of investments is 155.

AEW Core Property Trust | As of December 31, 2022

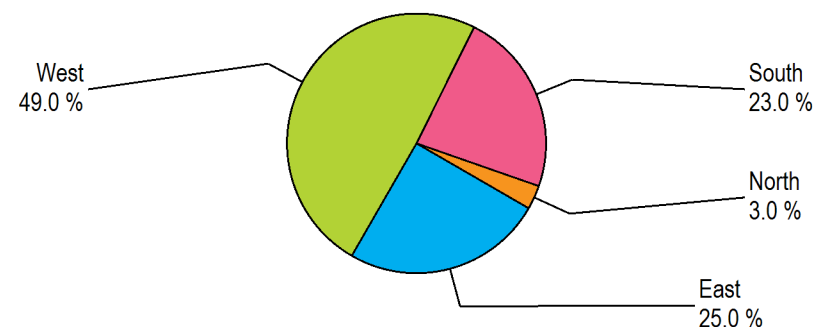
Account Information

Account Name	AEW Core Property Trust
Account Structure	Commingled Fund
Investment Style	Active
Inception Date	10/01/14
Account Type	Real Estate
Benchmark	NCREIF ODCE (net)
Universe	

Portfolio Performance Summary

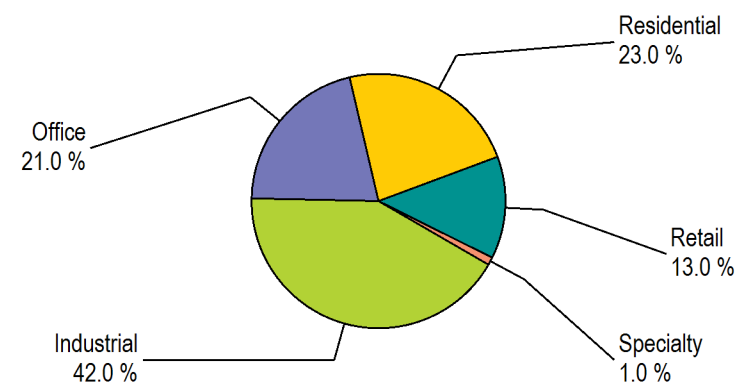
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	Inception (%)	Inception Date
AEW Core Property Trust	-5.2	7.7	9.3	7.9	8.7	Oct-14
NCREIF ODCE (net)	-5.1	6.6	9.0	7.7	8.5	Oct-14

Geographic Diversification



North represents Midwest.

Property Type Allocation



Note: As of September 30, 2022, the number of investments is 79.

Account Information

Account Name	AEW Partners IX, L.P.
Account Structure	Other
Investment Style	Active
Inception Date	3/29/21
Account Type	Real Estate
Benchmark	NCREIF ODCE (net)

Non-Marketable Securities Overview

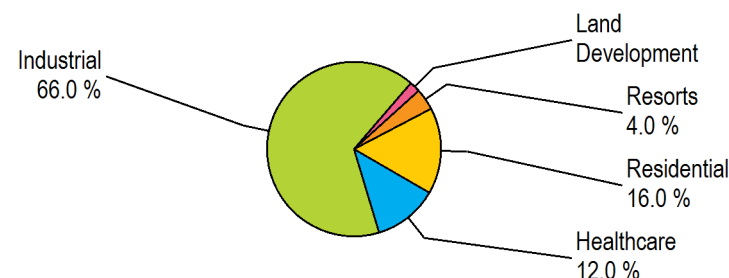
As of December 31, 2022

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Real Estate	AEW Partners IX, L.P.	2019	\$5,000,000	\$3,191,112	\$1,867	\$3,271,295	\$3,273,162	\$1,808,888
	Total Account		\$5,000,000	\$3,191,112	\$1,867	\$3,271,295	\$3,273,162	\$1,808,888

Geographic Diversification



Property Type Allocation



Investment Strategy:

AEW IX will pursue an opportunistic real estate strategy comparable with predecessor funds, adapting as economies, property markets and capital markets transition through cycles. The Fund will focus on three themes: disruption and capital market dislocations, densification and urbanization, and demographics. Value will be created through repositioning, refinancing, development, redevelopment, market recovery, and emerging locations.

Note: As of September 30, 2022, the number of investments is 25.

Account Information

Account Name	TA Associates Realty Fund X
Account Structure	Other
Investment Style	Active
Inception Date	4/01/13
Account Type	Real Estate
Benchmark	NCREIF ODCE (net)
Universe	

Non-Marketable Securities Overview

As of December 31, 2022

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Real Estate	TA Associates Realty Fund X	2013	\$3,000,000	\$3,000,000	\$4,811,402	\$3,502	\$4,814,904	\$0
	Total Account		\$3,000,000	\$3,000,000	\$4,811,402	\$3,502	\$4,814,904	\$0

Investment Strategy:

TA Associates Realty Fund X uses a value-added strategy to create a diversified portfolio of direct real estate investments. The strategy is anticipated to target under-leased office, industrial, multifamily, and retail assets that are expected to be well-located, functional buildings with strong net operating income (NOI) growth potential. Geographically, the fund will target over 35 U.S. markets with broad regional diversification targets of 25% to 40% in the west, 20% to 35% in the east, 20% to 30% in the south, and 10% to 20% in the Midwest. The fund will target 35% leverage, with a maximum of 50%. Most value-added improvements include redevelopment, repositioning, retenanting, or recapitalization.

Note: As of June 30, 2022 the number of investments is 0.

Account Information

Account Name	Ascent Venture Partners - Fund V
Account Structure	Other
Investment Style	Active
Inception Date	9/22/08
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Ascent Venture Partners - Fund V	2011	\$1,000,000	\$970,000	\$911,356	\$625,211	\$1,536,567	\$30,000
	Total Account		\$1,000,000	\$970,000	\$911,356	\$625,211	\$1,536,567	\$30,000

Investment Strategy:

Ascent Venture Partners V is an early stage venture capital fund focused on making investments within the technology products and services industry. Specific areas of interest include next generation software (open source and Software-as-a-Service), data management and analysis, automated computing, security and compliance, financial services, and applications associated with the convergence of remote devices. The GP is located in Boston and will invest in the eastern United States and Canada. The Fund will target companies that have pre-money valuations of \$3 to \$15 million and have the potential for a \$100 million exit value.

Note: As of September 30, 2022, the Net IRR is 6.46%.

Account Information

Account Name	Ascent Venture Partners - Fund VI
Account Structure	Other
Investment Style	Active
Inception Date	6/30/15
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Ascent Venture Partners - Fund VI	2015	\$1,500,000	\$1,410,000	\$0	\$1,726,884	\$1,726,884	\$90,000
	Total Account		\$1,500,000	\$1,410,000	\$0	\$1,726,884	\$1,726,884	\$90,000

Investment Strategy:

Ascent Venture Partners VI is a limited partnership that was formed on November 25, 2013 under the Delaware Uniform Limited Partnership Act and commenced operations on November 16, 2015. The purpose of the Partnership is to provide early stage financing to emerging technology companies.

Note: As of September 30, 2022, the Net IRR is 4.30%.

Account Information

Account Name	Goldman Sachs PEP 2005
Account Structure	Other
Investment Style	Active
Inception Date	8/01/06
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Goldman Sachs PEP 2005	2006	\$3,000,000	\$2,932,708	\$3,643,280	\$166,150	\$3,809,430	\$67,292
	Total Account		\$3,000,000	\$2,932,708	\$3,643,280	\$166,150	\$3,809,430	\$67,292

Investment Strategy:

Goldman Sachs Private Equity Partners 2005 is a fund of funds formed to create a diversified portfolio of 18 to 25 partnerships. The Fund will invest opportunistically in order to commit to the “very best managers.” The Fund expects to commit approximately \$40 million to each partnership. Previous funds have invested approximately 30% outside the U.S.

Note: As of June 30, 2022, the Net IRR is 4.9%.

Account Information

Account Name	HarbourVest Partners VIII
Account Structure	Other
Investment Style	Active
Inception Date	12/20/07
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	HarbourVest Partners VIII	2006	\$2,500,000	\$2,425,000	\$4,206,525	\$211,651	\$4,418,176	\$75,000
	Total Account		\$2,500,000	\$2,425,000	\$4,206,525	\$211,651	\$4,418,176	\$75,000

Investment Strategy:

HarbourVest Partners, known as Hancock Venture Partners until 1997, was founded in 1982 to invest in private equity partnerships. The HarbourVest Partners VIII Investment Program consists of three separate fund of funds, each dedicated to distinct private equity strategies: buyout, venture capital and mezzanine debt partnerships. Each vehicle will invest primarily in newly raised funds, but will also invest a portion of assets in secondary interest.

Note: As of September 30, 2022, the Net IRR is 10.7%.

Account Information

Account Name	HarbourVest Partners IX
Account Structure	Other
Investment Style	Active
Inception Date	10/22/13
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	HarbourVest Partners IX	2010	\$5,000,000	\$4,262,500	\$6,126,549	\$3,171,637	\$9,298,186	\$737,500
	Total Account		\$5,000,000	\$4,262,500	\$6,126,549	\$3,171,637	\$9,298,186	\$737,500

Investment Strategy:

HarbourVest Partners, known as Hancock Venture Partners until 1997, was founded in 1982 to invest in private equity partnerships. The HarbourVest Partners IX Fund consists of three separate fund of funds, each dedicated to distinct private equity strategies: buyout, venture capital, and mezzanine debt partnerships. Each vehicle will invest primarily in newly-raised funds, but will also invest a portion of assets in secondary interests.

Note: As of September 30, 2022, the Net IRR is 18.7%.

Account Information

Account Name	HarbourVest X Buyout Fund
Account Structure	Other
Investment Style	Active
Inception Date	4/06/16
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	HarbourVest X Buyout Fund	2016	\$6,500,000	\$5,395,000	\$4,067,387	\$5,210,996	\$9,278,383	\$1,105,000
	Total Account		\$6,500,000	\$5,395,000	\$4,067,387	\$5,210,996	\$9,278,383	\$1,105,000

Investment Strategy:

HarbourVest Partners, known as Hancock Venture Partners until 1997, was founded in 1982 to invest in private equity partnerships. The HarbourVest Partners X Fund consists of three separate fund of funds, each dedicated to distinct private equity strategies: buyout, venture capital, and mezzanine debt partnerships. Each vehicle will invest primarily in newly-raised funds, but will also invest a portion of assets in secondary interests.

Note: As of September 30, 2022, the Net IRR is 25.0%.

Account Information

Account Name	HarbourVest Partners XI
Account Structure	Other
Investment Style	Active
Inception Date	7/31/19
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	HarbourVest Partners XI	2019	\$5,000,000	\$3,474,000	\$1,046,490	\$4,443,706	\$5,490,196	\$1,526,000
	Total Account		\$5,000,000	\$3,474,000	\$1,046,490	\$4,443,706	\$5,490,196	\$1,526,000

Investment Strategy:

HarbourVest Partners, known as Hancock Venture Partners until 1997, was founded in 1982 to invest in private equity partnerships. The HarbourVest Partners XI Fund consists of three separate fund of funds, each dedicated to distinct private equity strategies: buyout, venture capital, and mezzanine debt partnerships. Each vehicle will invest primarily in newly-raised funds, but will also invest a portion of assets in secondary interests.

Note: As of September 30, 2022, the Net IRR is 40.3%.

Account Information

Account Name	HarbourVest Fund XII
Account Structure	Other
Investment Style	Active
Inception Date	9/07/22
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	HarbourVest Partners XII	2021	\$4,000,000	\$302,000	\$0	\$301,267	\$301,267	\$3,698,000
	Total Account		\$4,000,000	\$302,000	\$0	\$301,267	\$301,267	\$3,698,000

Investment Strategy:

HarbourVest Partners, known as Hancock Venture Partners until 1997, was founded in 1982 to invest in private equity partnerships. The HarbourVest Partners XII Fund consists of three separate fund of funds, each dedicated to the following private equity strategies: buyout, micro-buyout, and venture partnerships. Each vehicle will consist mainly of primary partnership investments, predominately in North America, but will also invest a portion of assets in secondary interests with no geographic or strategic restriction.

Account Information

Account Name	Constitution Capital Partners Ironsides III
Account Structure	Other
Investment Style	Active
Inception Date	1/29/14
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Constitution Capital Partners Ironsides III	2014	\$5,000,000	\$3,456,830	\$7,183,434	\$5,871,667	\$13,055,102	\$1,543,170
	Total Account		\$5,000,000	\$3,456,830	\$7,183,434	\$5,871,667	\$13,055,102	\$1,543,170

Investment Strategy:

Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Note: As of September 30, 2022, the Net IRR is 27.6%.

Account Information

Account Name	Constitution Capital Partners Ironsides IV
Account Structure	Other
Investment Style	Active
Inception Date	6/01/16
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Constitution Capital Partners Ironsides IV	2016	\$3,250,000	\$1,719,577	\$3,290,550	\$3,127,777	\$6,418,327	\$1,530,423
	Total Account		\$3,250,000	\$1,719,577	\$3,290,550	\$3,127,777	\$6,418,327	\$1,530,423

Investment Strategy:

Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Note: As of September 30, 2022, the Net IRR is 33.1%.

Account Information

Account Name	Constitution Capital Partners Ironsides V
Account Structure	Other
Investment Style	Active
Inception Date	3/09/20
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Constitution Capital Partners Ironsides V	2020	\$2,500,000	\$1,615,054	\$202,734	\$2,271,115	\$2,473,849	\$884,945
	Total Account		\$2,500,000	\$1,615,054	\$202,734	\$2,271,115	\$2,473,849	\$884,945

Investment Strategy:

Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Note: As of September 30, 2022, the Net IRR is 34.8%.

Account Information

Account Name	Constitution Capital Direct IV
Account Structure	Other
Investment Style	Active
Inception Date	6/30/16
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview by Account Type

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Constitution Capital Direct IV	2016	\$3,250,000	\$2,771,453	\$3,949,661	\$2,770,625	\$6,720,286	\$478,547
	Total Account		\$3,250,000	\$2,771,453	\$3,949,661	\$2,770,625	\$6,720,286	\$478,547

Investment Strategy:

Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Note: As of September 30, 2022, the Net IRR is 18.5%.

Account Information

Account Name	Constitution Capital Direct V
Account Structure	Other
Investment Style	Active
Inception Date	3/27/19
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview

As of December 31, 2022

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Constitution Capital Direct V	2019	\$2,500,000	\$2,056,589	\$656,678	\$3,818,211	\$4,474,889	\$443,411
	Total Account		\$2,500,000	\$2,056,589	\$656,678	\$3,818,211	\$4,474,889	\$443,411

Investment Strategy:

Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Note: As of September 30, 2022, the Net IRR is 21.0%.

Account Information

Account Name	Constitution Capital Co-Investment Fund VI, L.P.
Account Structure	Other
Investment Style	Active
Inception Date	10/29/21
Account Type	Private Equity
Benchmark	Preqin Private Equity 1Q Lagged
Universe	

Non-Marketable Securities Overview

As of December 31, 2022

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Constitution Capital Co-Investment VI	2021	\$4,000,000	\$3,797,966	\$325,809	\$4,386,434	\$4,712,243	\$202,034
	Total Account		\$4,000,000	\$3,797,966	\$325,809	\$4,386,434	\$4,712,243	\$202,034

Investment Strategy:

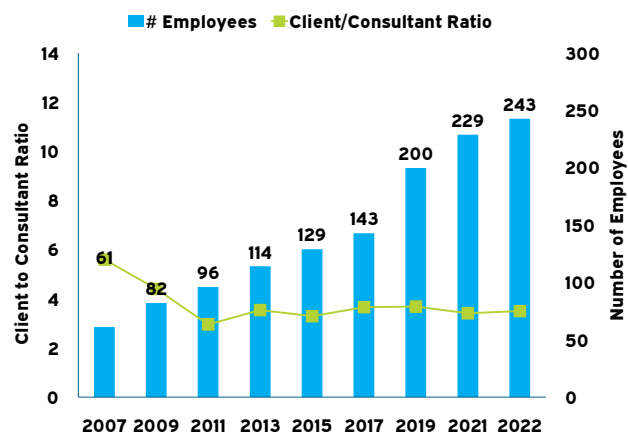
Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Appendices

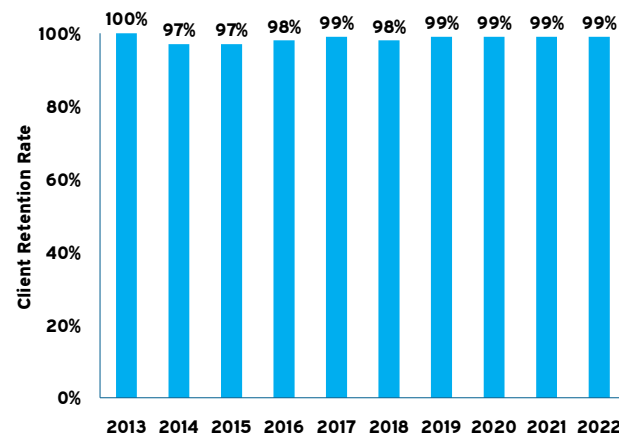
Meketa Investment Group Corporate Update

- Staff of 243, including 162 investment professionals and 48 CFA Charterholders¹
- More than 240 clients, with over 400 funds throughout the United States
- Significant investment in staff and resources
- Offices in Boston, Chicago, Miami, New York, Portland (OR), San Diego, and London
- We advise on \$1.6 trillion in client assets¹
 - Over \$150 billion in assets committed to alternative investments
 - Private Equity – Infrastructure – Natural Resources
 - Real Estate – Hedge Funds – Commodities

Client to Consultant Ratio²



Client Retention Rate³



Meketa Investment Group is proud to work for over 5 million American families everyday.

¹ Client and employee counts as of December 31, 2022; assets as of September 30, 2022.

² On March 15, 2019, 31 employees joined the firm as part of the merger of Meketa Investment Group and Pension Consulting Alliance.

³ Client Retention Rate is one minus the number of clients lost divided by the number of clients at prior year-end.

Asset Classes Followed Intensively by Meketa Investment Group

Domestic Equities	International Equities	Private Equity	Real Assets	Fixed Income	Hedge Funds
<ul style="list-style-type: none"> → Passive → Enhanced Index → Large Cap → Midcap → Small Cap → Microcap → 130/30 	<ul style="list-style-type: none"> → Large Cap Developed → Small Cap Developed → Emerging Markets → Frontier Markets 	<ul style="list-style-type: none"> → Buyouts → Venture Capital → Private Debt → Special Situations → Secondaries → Fund of Funds 	<ul style="list-style-type: none"> → Public REITs → Core Real Estate → Value Added Real Estate → Opportunistic Real Estate → Infrastructure → Timber → Natural Resources → Commodities 	<ul style="list-style-type: none"> → Short-Term → Core → Core Plus → TIPS → High Yield → Bank Loans → Distressed → Global → Emerging Markets 	<ul style="list-style-type: none"> → Long/Short Equity → Event Driven → Relative Value → Fixed Income Arbitrage → Multi Strategy → Market Neutral → Global Macro → Fund of Funds → Portable Alpha

Disclaimer, Glossary, and Notes

WE HAVE PREPARED THIS REPORT (THIS "REPORT") FOR THE SOLE BENEFIT OF THE INTENDED RECIPIENT (THE "RECIPIENT").

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PERFORMANCE DATA CONTAINED HEREIN REPRESENT PAST PERFORMANCE. PAST PERFORMANCE IS NO GUARANTEE OF FUTURE RESULTS.

Credit Risk: Refers to the risk that the issuer of a fixed income security may default (i.e., the issuer will be unable to make timely principal and/or interest payments on the security).

Duration: Measure of the sensitivity of the price of a bond to a change in its yield to maturity. Duration summarizes, in a single number, the characteristics that cause bond prices to change in response to a change in interest rates. For example, the price of a bond with a duration of three years will rise by approximately 3% for each 1% decrease in its yield to maturity. Conversely, the price will decrease 3% for each 1% increase in the bond's yield. Price changes for two different bonds can be compared using duration. A bond with a duration of six years will exhibit twice the percentage price change of a bond with a three-year duration. The actual calculation of a bond's duration is somewhat complicated, but the idea behind the calculation is straightforward. The first step is to measure the time interval until receipt for each cash flow (coupon and principal payments) from a bond. The second step is to compute a weighted average of these time intervals. Each time interval is measured by the present value of that cash flow. This weighted average is the duration of the bond measured in years.

Information Ratio: This statistic is a measure of the consistency of a portfolio's performance relative to a benchmark. It is calculated by subtracting the benchmark return from the portfolio return (excess return), and dividing the resulting excess return by the standard deviation (volatility) of this excess return. A positive information ratio indicates outperformance versus the benchmark, and the higher the information ratio, the more consistent the outperformance.

Jensen's Alpha: A measure of the average return of a portfolio or investment in excess of what is predicted by its beta or "market" risk. $\text{Portfolio Return} - [\text{Risk Free Rate} + \text{Beta} \times (\text{market return} - \text{Risk Free Rate})]$.

Market Capitalization: For a firm, market capitalization is the total market value of outstanding common stock. For a portfolio, market capitalization is the sum of the capitalization of each company weighted by the ratio of holdings in that company to total portfolio holdings; thus it is a weighted-average capitalization. Meketa Investment Group considers the largest 65% of the broad domestic equity market as large capitalization, the next 25% of the market as medium capitalization, and the smallest 10% of stocks as small capitalization.

Market Weighted: Stocks in many indices are weighted based on the total market capitalization of the issue. Thus, the individual returns of higher market-capitalization issues will more heavily influence an index's return than the returns of the smaller market-capitalization issues in the index.

Maturity: The date on which a loan, bond, mortgage, or other debt/security becomes due and is to be paid off.

Prepayment Risk: The risk that prepayments will increase (homeowners will prepay all or part of their mortgage) when mortgage interest rates decline; hence, investors' monies will be returned to them in a lower interest rate environment. Also, the risk that prepayments will slow down when mortgage interest rates rise; hence, investors will not have as much money as previously anticipated in a higher interest rate environment. A prepayment is any payment in excess of the scheduled mortgage payment.

Price-Book Value (P/B) Ratio: The current market price of a stock divided by its book value per share. Meketa Investment Group calculates P/B as the current price divided by Compustat's quarterly common equity. Common equity includes common stock, capital surplus, retained earnings, and treasury stock adjusted for both common and nonredeemable preferred stock. Similar to high P/E stocks, stocks with high P/B's tend to be riskier investments.

Price-Earnings (P/E) Ratio: A stock's market price divided by its current or estimated future earnings. Lower P/E ratios often characterize stocks in low growth or mature industries, stocks in groups that have fallen out of favor, or stocks of established blue chip companies with long records of stable earnings and regular dividends. Sometimes a company that has good fundamentals may be viewed unfavorably by the market if it is an industry that is temporarily out of favor. Or a business may have experienced financial problems causing investors to be skeptical about its future. Either of these situations would result in lower relative P/E ratios. Some stocks exhibit above-average sales and earnings growth or expectations for above average growth. Consequently, investors are willing to pay more for these companies' earnings, which results in elevated P/E ratios. In other words, investors will pay more for shares of companies whose profits, in their opinion, are expected to increase faster than average. Because future events are in no way assured, high P/E stocks tend to be riskier and more volatile investments. Meketa Investment Group calculates P/E as the current price divided by the I/B/E/S consensus of twelve-month forecast earnings per share.

Quality Rating: The rank assigned a security by such rating services as Fitch, Moody's, and Standard & Poor's. The rating may be determined by such factors as (1) the likelihood of fulfillment of dividend, income, and principal payment of obligations; (2) the nature and provisions of the issue; and (3) the security's relative position in the event of liquidation of the company. Bonds assigned the top four grades (AAA, AA, A, BBB) are considered investment grade because they are eligible bank investments as determined by the controller of the currency.

Sharpe Ratio: A commonly used measure of risk-adjusted return. It is calculated by subtracting the risk free return (usually three-month Treasury bill) from the portfolio return and dividing the resulting excess return by the portfolio's total risk level (standard deviation). The result is a measure of return per unit of total risk taken. The higher the Sharpe ratio, the better the fund's historical risk adjusted performance.

STIF Account: Short-term investment fund at a custodian bank that invests in cash-equivalent instruments. It is generally used to safely invest the excess cash held by portfolio managers.

Standard Deviation: A measure of the total risk of an asset or a portfolio. Standard deviation measures the dispersion of a set of numbers around a central point (e.g., the average return). If the standard deviation is small, the distribution is concentrated within a narrow range of values. For a normal distribution, about two thirds of the observations will fall within one standard deviation of the mean, and 95% of the observations will fall within two standard deviations of the mean.

Style: The description of the type of approach and strategy utilized by an investment manager to manage funds. For example, the style for equities is determined by portfolio characteristics such as price-to-book value, price-to-earnings ratio, and dividend yield. Equity styles include growth, value, and core.

Tracking Error: A divergence between the price behavior of a position or a portfolio and the price behavior of a benchmark, as defined by the difference in standard deviation.

Yield to Maturity: The yield, or return, provided by a bond to its maturity date; determined by a mathematical process, usually requiring the use of a “basis book.” For example, a 5% bond pays \$5 a year interest on each \$100 par value. To figure its current yield, divide \$5 by \$95—the market price of the bond—and you get 5.26%. Assume that the same bond is due to mature in five years. On the maturity date, the issuer is pledged to pay \$100 for the bond that can be bought now for \$95. In other words, the bond is selling at a discount of 5% below par value. To figure yield to maturity, a simple and approximate method is to divide 5% by the five years to maturity, which equals 1% pro rata yearly. Add that 1% to the 5.26% current yield, and the yield to maturity is roughly 6.26%.

$$\frac{5\% \text{ (discount)}}{5 \text{ (yrs. to maturity)}} = 1\% \text{ pro rata, plus } 5.26\% \text{ (current yield)} = 6.26\% \text{ (yield to maturity)}$$

Yield to Worst: The lowest potential yield that can be received on a bond without the issuer actually defaulting. The yield to worst is calculated by making worst-case scenario assumptions on the issue by calculating the returns that would be received if provisions, including prepayment, call, or sinking fund, are used by the issuer.

NCREIF Property Index (NPI): Measures unleveraged investment performance of a very large pool of individual commercial real estate properties acquired in the private market by tax-exempt institutional investors for investment purposes only. The NPI index is capitalization-weighted for a quarterly time series composite total rate of return.

NCREIF Fund Index - Open End Diversified Core Equity (NFI-ODCE): Measures the investment performance of 28 open-end commingled funds pursuing a core investment strategy that reflects funds' leverage and cash positions. The NFI-ODCE index is equal-weighted and is reported gross and net of fees for a quarterly time series composite total rate of return.

Sources: Investment Terminology, International Foundation of Employee Benefit Plans, 1999.

The Handbook of Fixed Income Securities, Fabozzi, Frank J., 1991

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Throughout this report, numbers may not sum due to rounding.

Returns for periods greater than one year are annualized throughout this report.

Values shown are in millions of dollars, unless noted otherwise.