

# **OPEN SESSION AGENDA**

**Q2 2021 Market Environment** 

**Q2 2021 Total Fund Performance** 

**Q1 2021 Private Markets Report** 

**August Preliminary Performance Report** 

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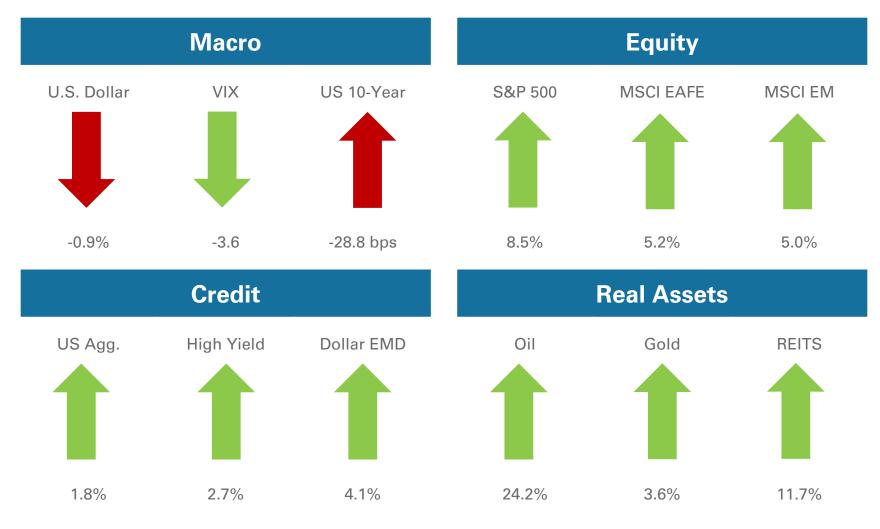
# RETURNS FOR KEY INDICES RANKED IN ORDER OF PERFORMANCE (AS OF 6/30/2021)

2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
MSCI EMERGING MARKETS 32.17	MSCI EMERGING MARKETS 39.39	BC AGGREGATE 5.24	MSCI EMERGING MARKETS 78.51	RUSSELL 2000 GROWTH 29.09	BC AGGREGATE 7.84	MSCI EMERGING MARKETS 18.22	RUSSELL 2000 GROWTH 43.30	S&P 500 13.69	RUSSELL 1000 GROWTH 5.67	RUSSELL 2000 VALUE 31.74	MSCI EMERGING MARKETS 37.28	BC AGGREGATE 0.01	RUSSELL 1000 GROWTH 36.39	RUSSELL 1000 GROWTH 38.49
MSCI EAFE 26.34	RUSSELL 1000 GROWTH 11.81	RUSSELL 2000 VALUE -28.92	RUSSELL 1000 GROWTH 37.21	RUSSELL 2000 26.85	RUSSELL 1000 GROWTH 2.64	RUSSELL 2000 VALUE 18.05	RUSSELL 2000 38.82	RUSSELL 1000 VALUE 13.45	S&P 500 1.38	RUSSELL 2000 21.31	RUSSELL 1000 GROWTH 30.21	RUSSELL 1000 GROWTH -1.51	S&P 500 31.49	RUSSELL 2000 GROWTH 34.63
RUSSELL 2000 VALUE 23.48	MSCI EAFE 11.17	RUSSELL 2000 -33.79	RUSSELL 2000 GROWTH 34.47	RUSSELL 2000 VALUE 24.5	S&P 500 2.11	RUSSELL 1000 VALUE 17.51	RUSSELL 2000 VALUE 34.52	RUSSELL 1000 13.24	RUSSELL 1000 0.92	RUSSELL 1000 VALUE 17.34	MSCI EAFE 25.03	S&P 500 -4.38	RUSSELL 1000 31.43	RUSSELL 2000 19.96
RUSSELL 1000 VALUE 22.25	RUSSELL 2000 GROWTH 7.06	RUSSELL 1000 VALUE -36.85	MSCI EAFE 31.78	MSCI EMERGING MARKETS 18.88	RUSSELL 1000 1.50	MSCI EAFE 17.32	RUSSELL 1000 GROWTH 33.48	RUSSELL 1000 GROWTH 13.05	BC AGGREGATE 0.55	RUSSELL 1000 12.05	RUSSELL 2000 GROWTH 22.17	RUSSELL 1000 -4.78	RUSSELL 2000 GROWTH 28.48	RUSSELL 1000 20.96
RUSSELL 2000 18.37	BC AGGREGATE 6.97	S&P 500 -37.0	RUSSELL 1000 28.43	RUSSELL 1000 GROWTH 16.71	RUSSELL 1000 VALUE 0.39	RUSSELL 1000 16.42	RUSSELL 1000 33.11	BC AGGREGATE 5.97	MSCI EAFE -0.81	S&P 500 11.96	S&P 500 21.83	RUSSELL 1000 VALUE -8.27	RUSSELL 1000 VALUE 26.54	S&P 500 18.40
S&P 500 15.8	RUSSELL 1000 5.77	RUSSELL 1000 -37.6	RUSSELL 2000 27.16	RUSSELL 1000 16.10	RUSSELL 2000 GROWTH -2.91	RUSSELL 2000 16.35	RUSSELL 1000 VALUE 32.53	RUSSELL 2000 GROWTH 5.60	RUSSELL 2000 GROWTH -1.38	RUSSELL 2000 GROWTH 11.32	RUSSELL 1000 21.69	RUSSELL 2000 GROWTH -9.31	RUSSELL 2000 25.52	MSCI EMERGING MARKETS 18.31
RUSSELL 1000 15.46	S&P 500 5.49	RUSSELL 1000 GROWTH -38.44	S&P 500 26.46	RUSSELL 1000 VALUE 15.51	RUSSELL 2000 -4.18	S&P 500 16.00	S&P 500 32.39	RUSSELL 2000 4.89	RUSSELL 1000 VALUE -3.83	MSCI EMERGING MARKETS 11.19	RUSSELL 2000 14.65	RUSSELL 2000 -11.01	RUSSELL 2000 VALUE 22.39	MSCI EAFE 7.82
RUSSELL 2000 GROWTH 13.35	RUSSELL 1000 VALUE -0.17	RUSSELL 2000 GROWTH -38.54	RUSSELL 2000 VALUE 20.58	S&P 500 15.06	RUSSELL 2000 VALUE -5.50	RUSSELL 1000 GROWTH 15.26	MSCI EAFE 22.78	RUSSELL 2000 VALUE 4.22	RUSSELL 2000 -4.41	RUSSELL 1000 GROWTH 7.08	RUSSELL 1000 VALUE 13.66	RUSSELL 2000 VALUE -12.86	MSCI EAFE 22.01	BC AGGREGATE 7.51
RUSSELL 1000 GROWTH 9.07	RUSSELL 2000 -1.56	MSCI EAFE -43.38	RUSSELL 1000 VALUE 19.69	MSCI EAFE 7.75	MSCI EAFE -12.14	RUSSELL 2000 GROWTH 14.59	BC AGGREGATE -2.02	MSCI EMERGING MARKETS -2.19	RUSSELL 2000 VALUE -7.46	BC AGGREGATE 2.65	RUSSELL 2000 VALUE 7.84	MSCI EAFE -13.79	MSCI EMERGING MARKETS 18.44	RUSSELL 2000 VALUE 4.63
BC AGGREGATE 4.33	RUSSELL 2000 VALUE -9.78	MSCI EMERGING MARKETS -53.33	BC AGGREGATE 5.93	BC AGGREGATE 6.54	MSCI EMERGING MARKETS -18.42	BC AGGREGATE 4.21	MSCI EMERGING MARKETS -2.60	MSCI EAFE -4.90	MSCI EMERGING MARKETS -14.93	MSCI EAFE 1.00	BC AGGREGATE 3.54	MSCI EMERGING MARKETS -14.58	BC AGGREGATE 8.72	RUSSELL 1000 VALUE 2.79

QTD	1 year	3 year	5 Year	10 Year
RUSSELL 2000 VALUE 21.17	RUSSELL 2000 VALUE 97.05	RUSSELL 1000 GROWTH 25.14	RUSSELL 1000 GROWTH 23.66	RUSSELL 1000 GROWTH 17.87
RUSSELL 1000 GROWTH 11.93	RUSSELL 2000 62.02	RUSSELL 1000 19.16	RUSSELL 2000 GROWTH 18.76	RUSSELL 1000 14.90
S&P 500 8.55	RUSSELL 2000 GROWTH 51.36	S&P 500 18.67	RUSSELL 1000 17.99	S&P 500 14.84
RUSSELL 1000 8.54	RUSSELL 1000 VALUE 43.68	RUSSELL 2000 GROWTH 15.94	S&P 500 17.65	RUSSELL 2000 GROWTH 13.52
RUSSELL 1000 VALUE 5.21	RUSSELL 1000 43.07	RUSSELL 2000 13.52	RUSSELL 2000 16.47	RUSSELL 2000 12.34
MSCI EAFE 5.17	RUSSELL 1000 GROWTH 42.50	RUSSELL 1000 VALUE 12.42	RUSSELL 2000 VALUE 13.56	RUSSELL 1000 VALUE 11.61
MSCI EMERGING MARKETS 5.05	MSCI EMERGING MARKETS 40.90	RUSSELL 2000 VALUE 11.57	MSCI EMERGING MARKETS 13.03	RUSSELL 2000 VALUE 10.06
RUSSELL 2000 4.29	S&P 500 40.79	MSCI EMERGING MARKETS 11.27	RUSSELL 1000 VALUE 11.87	MSCI EAFE 5.89
RUSSELL 2000 GROWTH 3.92	MSCI EAFE 32.35	MSCI EAFE 8.27	MSCI EAFE 10.28	MSCI EMERGING MARKETS 4.29
BC AGGREGATE 1.83	BC AGGREGATE -0.33	BC AGGREGATE 5.34	BC AGGREGATE 3.03	BC AGGREGATE 3.39



## **MARKET OVERVIEW**

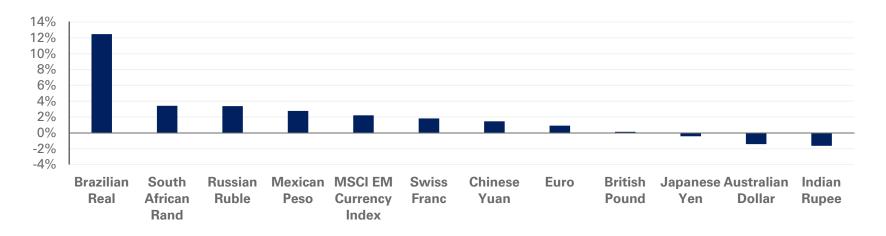


Market segment (index representation) as follows: US Dollar (DXY Index), VIX (CBOE Volatility Index), US 10-Year (US 10-Year Treasury Yield), US Agg (Barclays US Aggregate Bond Index), High Yield (Barclays US High Yield Index), Dollar EMD (JPM EMBI Global Diversified Index), Crude Oil (WTI Crude Oil Spot), Gold (Gold Price Spot), and REITs (NAREIT Composite Index). Source: CBOE, S&P, MSCI, Bloomberg, JPM, NAREIT, FactSet



## **MACRO OVERVIEW**

## CURRENCY PERFORMANCE RELATIVE TO U.S. DOLLAR



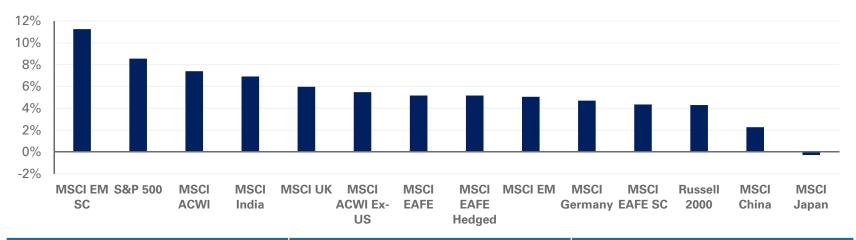
Central Banks	<b>Current Rate</b>	CPI YOY	Notes from the Quarter						
Federal Reserve	0.00% - 0.25%	5.3%	The Fed maintained current levels of monthly asset purchases and projected two rate hikes by the end of 2023						
European Central Bank	0.00%	1.9%	The ECB left rates unchanged and maintained its €1.85T emergency bond-buying program until at least March 2022						
Bank of Japan	-0.10%	-0.1%	The BoJ will continue to maintain pandameic-relief measures QE program with inflation remaining well below target						



Source (Top): MSCI, FactSet Source (Bottom): MSCI, FactSet

## **EQUITY OVERVIEW**

#### **QUARTERLY RETURN**



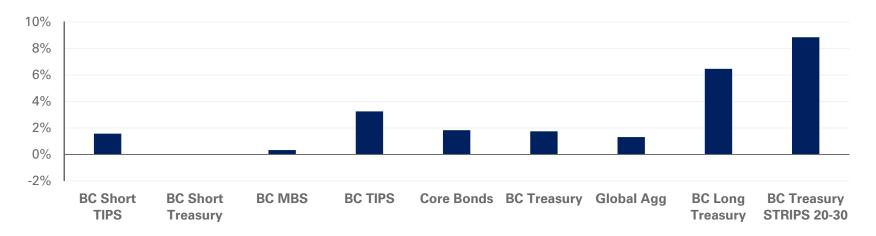
Russell 3000 QTD Sector Returns	ОТО	1 year
Technology	13.7%	49.1%
Health Care	8.2%	29.5%
Consumer Discretionary	5.6%	50.5%
Consumer Staples	2.8%	24.3%
Energy	11.6%	58.3%
Materials & Processing	4.7%	53.4%
Producer Durables	6.0%	50.1%
Financial Services	6.9%	59.6%
Utilities	0.4%	17.6%



Source (Top): MSCI, Russell, S&P, FactSet Source (Bottom): Russell, FactSet

## **RATES OVERVIEW**

## **QUARTERLY RETURN**



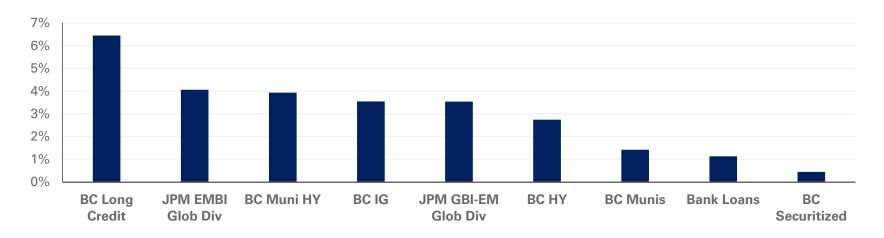
	Previous Quarter	Current Quarter	Δ
US 10-Year	1.74%	1.45%	-0.29%
US 30-Year	2.42%	2.06%	-0.36%
US Real 10-Year	-0.63%	-0.87%	-0.24%
German 10-Year	-0.30%	-0.21%	0.09%
Japan 10-Year	0.09%	0.05%	-0.03%
China 10-Year	3.21%	3.13%	-0.09%
EM Local Debt	4.99%	4.98%	-0.01%



Source (Top): Bloomberg, FactSet Source (Bottom): JPM, FactSet

## **CREDIT OVERVIEW**

## **QUARTERLY RETURN**



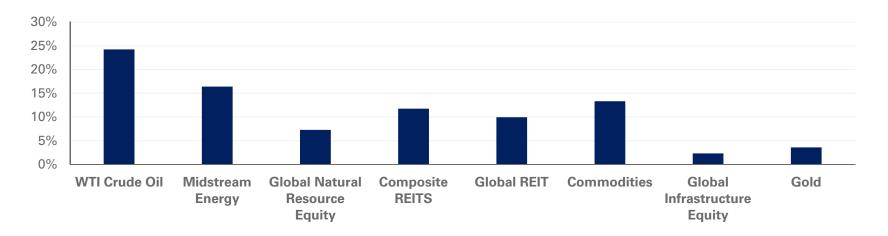
Credit Spread (Basis Points)	3/31/2021	6/30/2021	ĮΔĮ	Median
BC IG Credit	91	80	-11	136
BC Long Credit	126	118	-8	175
BC Securitized	16	29	13	49
BC High Yield	310	268	-42	477
Muni HY	364	309	-55	631
JPM EMBI Glob Div	354	340	-14	344
Bank Loans - Libor	355	355	0	428



Notes: Medians calculated since 11/30/2000 Source (Top): Bloomberg, JPM, FactSet Source (Bottom): Bloomberg, JPM, FactSet

## **REAL ASSET OVERVIEW**

#### **QUARTERLY RETURN**



Real Asset Yields	Previous Quarter	Current Quarter
Midstream Energy	6.6%	5.9%
Core Real Estate	3.0%	3.0%
US REITs	3.6%	3.1%
Global Infrastructure Equities	3.0%	2.9%
Global Natural Resource Equities	3.0%	3.0%
Commodity Index Roll Yield	3.3%	2.8%
US 10-Year Breakeven Inflation	2.37%	2.32%



Note: Core Real Estate\* yields are subject to a one quarter lag Source (Top): S&P, MSCI, Russell, JPM, FactSet Source (Bottom): Alerian, NAREIT, Barclays, NEPC, FactSet



## **EXECUTIVE SUMMARY AS OF 6/30/2021**

#### **Asset Allocation**

 The assets of the Plan totaled \$1.42 billion as of June 30, 2021 and had an investment gain of \$70.6 million during the quarter.

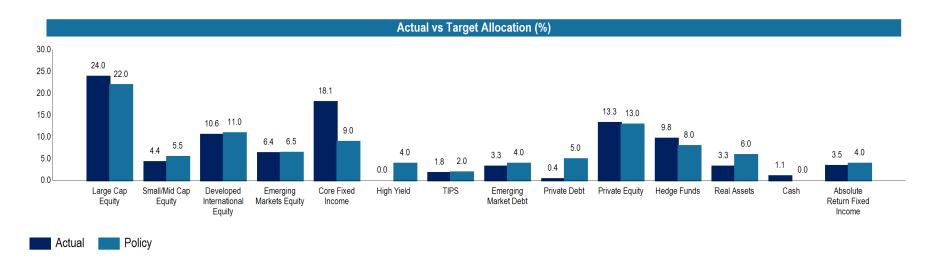
#### **Performance**

- The Plan gained 5.4% (gross) in Q2 as equities continued to improve with the ongoing vaccine rollout and support from monetary and fiscal interventions. However, uncertainties surrounding the global economy and inflation expectations still remain
  - The quarterly return ranked behind the median in the 44th percentile of the Public DB peer group
- For the trailing one year, the fund was up 26.8%, which underperformed the IF Public DB > \$1B Gross Median return of 27.4% and ranking in the 56<sup>th</sup> percentile
- In aggregate, the US Equity Composite was up 7.7% for the quarter, which underperformed the Russell 3000 benchmark return of 8.2% but outperformed the eV All US Equity Gross Median return of 6.8%
  - Large Cap Equity added 8.4% for the quarter, which outperformed the eV US Large Cap Equity Gross Median by 70 basis points
  - The Small/Mid Cap Equity composite gained 3.9% for the quarter, which underperformed the eV US Small-Mid Cap Equity Gross Median return by 140 basis points
- The International Equity Composite was up 6.0%, which outperformed the MSCI ACWI ex USA return of 5.5% and the eV ACWI ex-US AII Cap Equity Gross universe median return of 5.8%.
  - International Developed Equity underperformed the median by 40 bps, returning 5.3%
  - International Emerging Equity outperformed the median by 200 bps, returning 7.2%
- The Fixed Income Composite returned 2.4% in the second quarter, which outperformed the eV All US Fixed Income Gross Median return of 1.8%



## **TOTAL FUND PERFORMANCE SUMMARY (GROSS)**

	Market Value	3 Mo	Rank	YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	10 Yrs	Rank	Inception	Inception Date
Total Fund Composite	\$1,425,602,469	5.4%	44	9.9%	31	26.8%	56	12.1%	23	11.5%	29	8.8%	47	7.9%	Apr-97
Policy Index		5.2%	59	8.0%	87	23.1%	96	10.8%	60	10.0%	86	8.1%	80	7.7%	Apr-97
Allocation Index		5.2%	58	8.4%	76	25.1%	80								Apr-97
InvMetrics Public DB > \$1B Gross Median		5.4%		9.2%		27.4%		11.0%		11.0%		8.7%		7.6%	Apr-97



Fiscal year end 6/30.



## **ASSET ALLOCATION VS. POLICY TARGETS**



Asset Allocation vs. Target													
	Current	Policy	Current	Difference*									
Large Cap Equity	\$341,629,067	22.0%	24.0%	2.0%									
Small/Mid Cap Equity	\$62,417,543	5.5%	4.4%	-1.1%									
Developed International Equity	\$150,952,806	11.0%	10.6%	-0.4%									
Emerging Markets Equity	\$91,653,012	6.5%	6.4%	-0.1%									
Core Fixed Income	\$258,078,971	9.0%	18.1%	9.1%									
High Yield		4.0%		-4.0%									
TIPS	\$25,957,129	2.0%	1.8%	-0.2%									
Emerging Market Debt	\$47,745,133	4.0%	3.3%	-0.7%									
Private Debt	\$6,409,775	5.0%	0.4%	-4.6%									
Private Equity	\$189,851,548	13.0%	13.3%	0.3%									
Hedge Funds	\$139,003,453	8.0%	9.8%	1.8%									
Real Assets	\$47,056,812	6.0%	3.3%	-2.7%									
Cash	\$15,495,729	0.0%	1.1%	1.1%									
Absolute Return Fixed Income	\$49,351,490	4.0%	3.5%	-0.5%									
Total	\$1,425,602,469	100.0%	100.0%										

<sup>\*</sup>Difference between Policy and Current Allocation



## **TOTAL FUND PERFORMANCE SUMMARY (GROSS)**

						<u> </u>					
								E	Inding Ju	une 30, 202	1
	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Fund Composite	1,425,602,469	100.0	100.0	5.4	9.9	26.8	12.1	11.5	8.8	7.9	Apr-97
Policy Index				5.2	8.0	23.1	10.8	10.0	8.1	7.7	Apr-97
Allocation Index				5.2	8.4	25.1					Apr-97
Total US Equity Composite	404,046,611	28.3	27.5	7.7	15.2	44.2	17.3	18.4	14.9	9.7	Jul-97
Russell 3000				8.2	15.1	44.2	18.7	17.9	14.7	9.1	Jul-97
US Equity Allocation Index				8.2	14.6	44.5	18.2	17.8	14.3		Jul-97
Total International Equity	242,605,818	17.0	17.5	6.0	9.7	40.2	12.6	13.1	6.4	5.7	Jul-97
MSCI ACWI ex USA				5.5	9.2	35.7	9.4	11.1	5.4	5.3	Jul-97
Total Fixed Income Composite	381,132,723	26.7	23.0	2.4	-0.5	4.4	6.3	4.5	4.5	5.5	Jul-97
Fixed Income Policy Index				1.8	-1.6	-0.3	5.3	3.0	3.4	5.1	Jul-97
Total Real Assets Composite	47,056,812	3.3	6.0	4.1	5.5	11.9	1.2	6.0	6.3	6.5	Jul-03
NCREIF Property Index 1 Qtr. Lag				1.7	2.9	2.6	4.9	5.8	8.8	8.3	Jul-03
Cash Composite	15,495,729	1.1		0.0	0.0	0.0	1.0	8.0	0.4	1.3	Dec-03
91 Day T-Bills				0.0	0.0	0.1	1.2	1.1	0.6	1.2	Dec-03
Hedge Fund Composite	139,003,453	9.8	8.0	2.7	4.9	13.7	6.2	6.0	5.3	5.3	Jan-11
HFRI FOF: Conservative Index				2.0	5.7	14.8	5.3	5.0	3.5	3.3	Jan-11
Private Equity Composite	192,511,323	13.5	13.0	9.5	30.2	53.7	24.8	21.2	16.8	15.3	Jul-08
C A US All PE (1 Qtr Lag)				9.4	22.0	47.4	17.6	17.2	14.3	12.0	Jul-08
Private Debt	3,750,000	0.3	5.0	0.0	0.0	0.0		-		0.0	Jun-20
S&P/LSTA Leveraged Loan TR				1.5	3.3	11.7	4.4	5.0	4.4	11.7	Jun-20

Fiscal year end 6/30.

All history prior to 3/1/2019 was provided by AndCo.



		0/ 6		0.1.1				124		0.14				10.1			
	Market Value	% of	Policy %	3 Mo	Rank	YTD	Rank	1 Yr	Rank	3 Yrs (%) F	Rank	5 Yrs	Rank	10 Yrs	Rank	Inception	
	(\$)	Portfolio	<b>- - - - - - - - -</b>	(%) '		(%) '		(%) '		(%) '		(%) '		(%) '		(%)	Date
Total Fund Composite	1,425,602,469	100.0	100.0	5.4	44	9.9	31	26.8	56	12.1	23	11.5	29	8.8	47	7.9	Apr-97
Policy Index				5.2	59	8.0	87	23.1	96	10.8	60	10.0	86	8.1	80	7.7	Apr-97
Allocation Index				5.2	58	8.4	76	25.1	80								Apr-97
InvMetrics Public DB > \$1B Gross Median				5.4		9.2		27.4		11.0		11.0		8.7		7.6	Apr-97
Total Equity Composite	646,652,429	45.4	45.0	7.0	57	13.1	52	42.7	40	15.3	45	16.1	34	11.3	41	8.3	Apr-00
MSCI ACWI IMI				7.2	55	12.7	58	40.9	46	14.2	54	14.5	53	9.9	67	5.8	Apr-00
eV All Global Equity Gross Median				7.4		13.2		40.2		14.9		14.9		10.8		8.1	Apr-00
Total US Equity Composite	404,046,611	28.3	27.5	7.7	39	15.2	59	44.2	57	17.3	46	18.4	36	14.9	34	9.7	Jul-97
Russell 3000				8.2	32	15.1	61	44.2	58	18.7	36	17.9	40	14.7	38	9.1	Jul-97
US Equity Allocation Index				8.2	33	14.6	65	44.5	56	18.2	40	17.8	41	14.3	43		Jul-97
eV All US Equity Gross Median				6.8		16.3		46.4		16.4		16.7		13.8		10.6	Jul-97
Large Cap Composite	341,629,067	24.0	22.0	8.4	40	16.5	39	44.5	32	17.9	48	18.2	38	14.9	39	9.9	Apr-01
Russell 1000				8.5	39	15.0	55	43.1	40	19.2	40	18.0	40	14.9	40	9.1	Apr-01
eV US Large Cap Equity Gross Median				7.7		15.3		41.6		17.7		16.8		14.2		9.7	Apr-01
LSV Asset Management SMA	99,946,575	7.0		5.0	73	23.1	9	54.3	15	11.4	77	13.2	53	12.9	32	10.3	May-00
Russell 1000 Value				5.2	63	17.0	60	43.7	53	12.4	61	11.9	79	11.6	71	7.6	May-00
eV US Large Cap Value Equity Gross Median				5.7		18.0		44.3		13.2		13.3		12.3		9.1	May-00
Westfield Capital Management SMA	125,676,171	8.8		10.9	55	13.8	42	42.2	40	24.1	50	23.8	41	16.9	56	18.6	Jul-10
Russell 1000 Growth				11.9	32	13.0	55	42.5	38	25.1	34	23.7	42	17.9	30	19.3	Jul-10
eV US Large Cap Growth Equity Gross Median				11.2		13.3		40.8		24.1		22.7		17.1		18.6	Jul-10
BlackRock Equity Index Non-Lendable Fund	116,006,322	8.1		8.5	38	15.3	52	40.8	56							24.0	Dec-19
S&P 500				8.5	38	15.3	52	40.8	56	18.7	43	17.6	43	14.8	41	24.0	Dec-19
eV US Large Cap Equity Gross Median				7.7		15.3		41.6		17.7		16.8		14.2		22.7	Dec-19



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	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Small/Mid Cap Composite	62,417,543	4.4	5.5	3.9	80	9.1	89	42.8	87	15.2	47	19.0	31	15.0	24	12.9	Apr-93
Russell 2500				5.4	47	17.0	53	57.8	45	15.2	47	16.3	51	12.9	54	11.2	Apr-93
eV US Small-Mid Cap Equity Gross Median				5.3		17.3		55.1		14.8		16.4		13.0		12.6	Apr-93
William Blair SMA	22,368,112	1.6		4.2	88	8.8	68	43.4	69	19.3	71	21.3	61	16.5	43	13.8	Jun-06
Russell 2500 Growth				6.0	62	8.7	69	49.6	50	20.1	61	20.7	67	14.8	67	11.9	Jun-06
eV US Small-Mid Cap Growth Equity Gross Median				6.9		10.7		49.5		22.3		22.2		15.9		13.6	Jun-06
William Blair S/C Value I	19,801,665	1.4		3.7	62	25.8	45	67.4	48	10.2	59	15.1	30	12.6	31	12.3	Apr-93
Russell 2000 Value				4.6	43	26.7	37	73.3	33	10.3	58	13.6	53	10.8	78	10.4	Apr-93
eV US Small Cap Value Equity Gross Median				4.2		24.6		66.7		10.8		13.7		11.8		12.9	Apr-93
Brown Capital Small Company Strategy SMA	20,247,766	1.4		3.9	79	-3.0	99	24.4	99	17.3	76	21.9	53			19.5	Aug-11
Russell 2000 Growth				3.9	79	9.0	71	51.4	67	15.9	86	18.8	82	13.5	86	14.1	Aug-11
eV US Small Cap Growth Equity Gross Median				5.5		11.8		55.3		21.7		22.5		15.8		16.4	Aug-11
Total International Equity	242,605,818	17.0	17.5	6.0	48	9.7	51	40.2	50	12.6	46	13.1	53	6.4	81	5.7	Jul-97
MSCI ACWI ex USA				5.5	63	9.2	56	35.7	75	9.4	77	11.1	81	5.4	92	5.3	Jul-97
eV ACWI ex-US All Cap Equity Gross Median				5.8		9.8		40.1		12.3		13.1		8.1		7.7	Jul-97
International Developed Markets Composite	150,952,806	10.6	11.0	5.3	59	9.6	59	36.8	46	11.3	28	11.7	46	7.2	56	5.0	Mar-08
MSCI EAFE				5.2	66	8.8	69	32.3	76	8.3	62	10.3	72	5.9	87	3.7	Mar-08
eV All EAFE Equity Gross Median				5.7		10.2		36.1		9.0		11.3		7.5		5.6	Mar-08
Mondrian International Equity Fund, L.P.	77,662,949	5.4		5.4	57	13.1	21	35.3	55	6.4	86	8.1	93	5.5	93	2.8	Dec-07
MSCI EAFE				5.2	66	8.8	69	32.3	76	8.3	62	10.3	72	5.9	87	2.8	Dec-07
eV All EAFE Equity Gross Median				5.7		10.2		36.1		9.0		11.3		7.5		4.7	Dec-07
Baillie Gifford EAFE Pure K - BGPKX	73,289,857	5.1		5.2	63	6.4	88	37.6	43	15.4	7					14.9	May-18
MSCI EAFE				5.2	66	8.8	69	32.3	76	8.3	62	10.3	72	5.9	87	6.6	May-18
eV All EAFE Equity Gross Median				5.7		10.2		36.1		9.0		11.3		7.5		7.5	May-18



	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
International Emerging Markets Composite	91,653,012	6.4	6.5	7.2	26	10.0	46	45.9	43	14.9	28	15.7	27	4.8	72	7.6	Feb-06
MSCI Emerging Markets				5.0	53	7.4	66	40.9	69	11.3	67	13.0	62	4.3	85	6.2	Feb-06
eV Emg Mkts Equity Gross Median				5.2		9.3		45.1		12.2		13.8		5.8		7.8	Feb-06
GQG Partners Emerging Markets Equity Fund	46,150,051	3.2		5.6	46	4.5	90	42.5	63							23.7	Dec-18
MSCI Emerging Markets				5.0	53	7.4	66	40.9	69	11.3	67	13.0	62	4.3	85	15.9	Dec-18
eV Emg Mkts Equity Gross Median				5.2		9.3		45.1		12.2		13.8		5.8		18.0	Dec-18
Arga Emerging Markets Equity Fund	45,502,961	3.2		8.8	19	15.9	15									15.9	Jan-21
MSCI Emerging Markets Value NR USD				5.7	44	10.0	45	41.6	67	7.8	91	9.7	88	1.8	99	10.0	Jan-21
eV Emg Mkts Equity Gross Median				5.2		9.3		45.1		12.2		13.8		5.8		9.3	Jan-21
Total Fixed Income Composite	381,132,723	26.7	23.0	2.4	32	-0.5	68	4.4	36	6.3	37	4.5	37	4.5	39	5.5	Jul-97
Bloomberg US Aggregate TR				1.8	49	-1.6	90	-0.3	95	5.3	53	3.0	66	3.4	62	5.0	Jul-97
eV All US Fixed Inc Gross Median				1.8		0.1		2.5		5.5		3.7		3.9		5.2	Jul-97
Core Fixed Income Composite	284,036,100	19.9	11.0	2.2	33	-0.3	10	3.3	8							7.2	Mar-19
Bloomberg US Aggregate TR				1.8	85	-1.6	83	-0.3	88	5.3	89	3.0	91	3.4	93	5.7	Mar-19
eV US Core Fixed Inc Gross Median				2.1		-1.2		1.0		6.0		3.7		4.0		6.5	Mar-19
Dodge & Cox SMA	126,778,162	8.9		2.0	44	-0.5	68	3.7	40	6.7	30	4.8	33	4.7	35	4.9	May-10
Bloomberg US Aggregate TR				1.8	49	-1.6	90	-0.3	95	5.3	53	3.0	66	3.4	62	3.6	May-10
eV All US Fixed Inc Gross Median				1.8		0.1		2.5		5.5		3.7		3.9		4.1	May-10
PIMCO Total Return	131,300,809	9.2		2.2	37	-0.6	69	2.4	51	6.3	36	4.2	41	4.0	49	4.3	May-10
Bloomberg US Aggregate TR				1.8	49	-1.6	90	-0.3	95	5.3	53	3.0	66	3.4	62	3.6	May-10
eV All US Fixed Inc Gross Median				1.8		0.1		2.5		5.5		3.7		3.9		4.1	May-10
State Street Global Advisors TIPS	25,957,129	1.8		3.2	44	1.7	80	6.4	85	6.5	62	4.1	74	3.4	68	4.0	Nov-09
Bloomberg US TIPS TR				3.2	42	1.7	56	6.5	71	6.5	61	4.2	74	3.4	66	4.0	Nov-09
eV US TIPS / Inflation Fixed Inc Gross Median				3.2		1.9		6.7		6.6		4.3		3.5		4.2	Nov-09



	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Emerging Markets Debt Composite	47,745,133	3.3	4.0	4.8	12	-3.3	89	9.8	49	-	-					4.4	Mar-19
JP Morgan GBI EM Global Diversified TR USD				3.5	59	-3.4	90	6.6	90	4.1	90	3.2	90	0.5	94	3.3	Mar-19
eV All Emg Mkts Fixed Inc Gross Median				3.7		-0.6		9.8		6.9		5.4		5.2		6.3	Mar-19
Colchester Local Markets Debt Fund	47,745,133	3.3		4.8	12	-3.3	89	9.8	49	5.2	75	4.7	67	-		7.1	Oct-15
JP Morgan GBI EM Global Diversified TR USD				3.5	59	-3.4	90	6.6	90	4.1	90	3.2	90	0.5	94	5.2	Oct-15
eV All Emg Mkts Fixed Inc Gross Median				3.7		-0.6		9.8		6.9		5.4		5.2		6.8	Oct-15
Absolute Return Fixed Income	49,351,490	3.5	4.0	1.0	67	1.6	26	5.9	29							2.9	Mar-20
3-Month Libor Total Return USD				0.0	97	0.1	49	0.2	88	1.4	99	1.4	98	0.9	98	0.3	Mar-20
eV All US Fixed Inc Gross Median				1.8		0.1		2.5		5.5		3.7		3.9		2.8	Mar-20
Payden Absolute Return Bond Fund PYAIX	49,351,490	3.5		1.0	67	1.6	26	5.9	29							2.9	Mar-20
3-Month Libor Total Return USD				0.0	97	0.1	49	0.2	88	1.4	99	1.4	98	0.9	98	0.3	Mar-20
eV All US Fixed Inc Gross Median				1.8		0.1		2.5		5.5		3.7		3.9		2.8	Mar-20
High Yield			4.0														
Total Real Assets Composite	47,056,812	3.3	6.0	4.1		5.5		11.9		1.2		6.0		6.3		6.5	Jul-03
NCREIF Property Index 1 Qtr. Lag				1.7		2.9		2.6		4.9		5.8		8.8		8.3	Jul-03
Cash Composite	15,495,729	1.1		0.0		0.0		0.0		1.0		0.8		0.4		1.3	Dec-03
91 Day T-Bills				0.0		0.0		0.1		1.2		1.1		0.6		1.2	Dec-03



## **TOTAL FUND PERFORMANCE DETAIL (GROSS)**

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%) R	ank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	lank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Inception (%)	Inception Date
Hedge Fund Composite	139,003,453	9.8	8.0	2.7		4.9		13.7		6.2		6.0		5.3		5.3	Jan-11
HFRI FOF: Conservative Index				2.0		5.7		14.8		5.3		5.0		3.5		3.3	Jan-11
Magnitude International Class A Eligible	68,982,536	4.8		2.0		3.6		12.2		5.5		5.2		5.0		5.2	Jan-11
HFRI FOF: Conservative Index				2.0		5.7		14.8		5.3		5.0		3.5		3.3	Jan-11
Blackstone Partners Offshore Fund LTD	70,020,917	4.9		3.4		6.2		15.3		6.8		6.8		5.6		5.4	Mar-11
HFRI FOF: Conservative Index				2.0		5.7		14.8		5.3		5.0		3.5		3.2	Mar-11
Private Equity Composite	192,511,323	13.5	13.0	9.5		30.2		53.7		24.8		21.2		16.8		15.3	Jul-08
C A US All PE (1 Qtr Lag)				9.4		22.0		47.4		17.6		17.2		14.3		12.0	Jul-08
Private Debt	3,750,000	0.3	5.0	0.0		0.0		0.0								0.0	Jun-20
S&P/LSTA Leveraged Loan				1.5		3.3		11.7		4.4		5.0		4.4		11.7	Jun-20

#### Fiscal year ends 6/30.

Policy index consists of: 22% Russell 1000 / 5.5% Russell 2500 / 11% MSCI EAFE / 6.5% MSCI Emerging Markets / 9% BBgBarc US Aggregate TR / 2% BBgBarc US TIPS TR / 4% 3-Month Libor Total Return USD / 4% JP Morgan GBI EM Global Diversified TR USD / 5% S&P/LSTA Leveraged Loan TR / 4% BBgBarc US High Yield TR / 6% NCREIF Property Index 1 Qtr. Lag / 8% HFRI FOF: Conservative Index / 13% Private Equity Composite.

Allocation index consists of: Weighted index of underlying managers to their respective benchmark.

Fixed Income Policy index consists of: 100% BBgBarc US Aggregate TR.

Real Estate, Real Assets and Private Equity investments are valued as of 3/31/2021 and adjusted for capital calls and distributions through 6/30/2020.

All history prior to 3/1/2019 was provided by AndCo.



## **ASSET ALLOCATION VS. POLICY TARGETS**

Allocation vs. Targets and Policy As Of June 30, 2021											
	Current Balance	Current Allocation	Target	Difference							
Large Cap Equity	\$341,629,067	24.0%	22.0%	2.0%							
Small/Mid Cap Equity	\$62,417,543	4.4%	5.5%	-1.1%							
Developed International Equity	\$150,952,806	10.6%	11.0%	-0.4%							
Emerging Markets Equity	\$91,653,012	6.4%	6.5%	-0.1%							
Core Fixed Income	\$258,078,971	18.1%	9.0%	9.1%							
High Yield			4.0%	-4.0%							
TIPS	\$25,957,129	1.8%	2.0%	-0.2%							
Emerging Market Debt	\$47,745,133	3.3%	4.0%	-0.7%							
Private Debt	\$6,409,775	0.4%	5.0%	-4.6%							
Private Equity	\$189,851,548	13.3%	13.0%	0.3%							
Hedge Funds	\$139,003,453	9.8%	8.0%	1.8%							
Real Assets	\$47,056,812	3.3%	6.0%	-2.7%							
Cash	\$15,495,729	1.1%	0.0%	1.1%							
Absolute Return Fixed Income	\$49,351,490	3.5%	4.0%	-0.5%							
Total	\$1,425,602,469	100.0%	100.0%								

Allocation vs. Targets and Policy As Of March 31, 2021											
	Current Balance	Current Allocation	Target	Difference							
Large Cap Equity	\$307,908,695	22.8%	19.0%	3.8%							
Small/Mid Cap Equity	\$60,226,943	4.5%	4.0%	0.5%							
Developed International Equity	\$143,591,350	10.6%	12.0%	-1.4%							
Emerging Markets Equity	\$85,679,918	6.3%	5.0%	1.3%							
Core Fixed Income	\$252,849,979	18.7%	20.0%	-1.3%							
TIPS	\$25,146,660	1.9%	2.0%	-0.1%							
Emerging Market Debt	\$45,659,487	3.4%	4.0%	-0.6%							
Private Debt	\$3,397,047	0.3%	5.0%	-4.7%							
Private Equity	\$186,037,815	13.8%	10.0%	3.8%							
Hedge Funds	\$135,564,098	10.0%	8.0%	2.0%							
Real Assets	\$45,214,272	3.3%	7.0%	-3.7%							
Cash	\$12,171,090	0.9%	0.0%	0.9%							
Absolute Return Fixed Income	\$48,907,213	3.6%	4.0%	-0.4%							
Total	\$1,352,354,568	100.0%	100.0%								



# Howard County Retirement Plans ANALYTICS DEFINITIONS

Asset Allocation Effect - Measures the ability to effectively allocate their portfolio's assets to various asset classes. The allocation effect determines whether the overweighting or underweighting of asset classes relative to a benchmark contributes positively or negatively to the overall portfolio return. Positive allocation occurs when the portfolio is overweighted in an asset class that outperforms the benchmark. Negative allocation occurs when the portfolio is overweighted in an asset class that underperforms the benchmark and underweighted in an asset class that outperforms the benchmark.

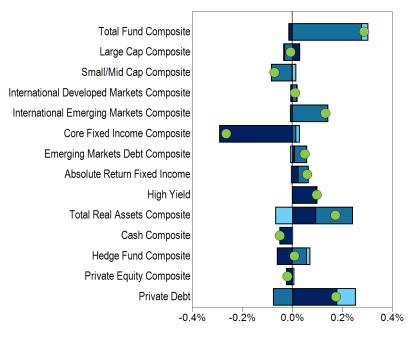
Selection Effect - Measures the ability to select managers within a given asset class relative to a benchmark. The over or underperformance of the portfolio is weighted by the benchmark weight, therefore, selection is not affected by plan's allocation to the asset class. The weight of the manager in the portfolio determines the size of the effect -- the larger the manager, the larger the effect is, positive or negative.

Interaction Effect - The interaction effect measures the combined impact of manager selection and manager allocation decisions within an asset class. For example, if client had superior manager selection and overweighted that particular asset class, the interaction effect is positive. If cleint had superior manager selection, but underweighted that asset class, the interaction effect is negative. In this case, client did not take advantage of the superior manager selection by allocating more assets to that asset class.



## **TOTAL FUND ATTRIBUTION ANALYSIS (GROSS)**

## Attribution Effects 3 Months Ending June 30, 2021

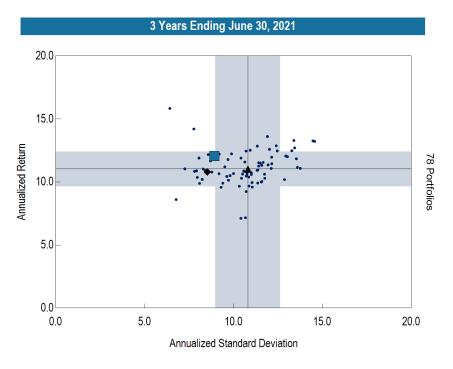


Attribution Summary												
3 Months Ending June 30, 2021												
	Policy Weight	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocatio n Effect	Interactio n Effects	Total Effects				
Large Cap Composite	22.0%	8.4%	8.5%	-0.1%	0.0%	0.0%	0.0%	0.0%				
Small/Mid Cap Composite	5.5%	3.9%	5.4%	-1.5%	-0.1%	0.0%	0.0%	-0.1%				
International Developed Markets Composite	11.0%	5.3%	5.2%	0.2%	0.0%	0.0%	0.0%	0.0%				
International Emerging Markets Composite	6.5%	7.2%	5.0%	2.1%	0.1%	0.0%	0.0%	0.1%				
Core Fixed Income Composite	11.0%	2.2%	2.1%	0.1%	0.0%	-0.3%	0.0%	-0.3%				
Emerging Markets Debt Composite	4.0%	4.8%	3.5%	1.2%	0.0%	0.0%	0.0%	0.0%				
Absolute Return Fixed Income	4.0%	1.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.1%				
High Yield	4.0%					0.1%						
Total Real Assets Composite	6.0%	4.1%	1.7%	2.4%	0.1%	0.1%	-0.1%	0.2%				
Cash Composite	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
Hedge Fund Composite	8.0%	2.7%	2.0%	0.7%	0.1%	-0.1%	0.0%	0.0%				
Private Equity Composite	13.0%	9.5%	9.4%	0.0%	0.0%	0.0%	0.0%	0.0%				
Private Debt	5.0%	0.0%	1.5%	-1.5%	-0.1%	0.2%	0.1%	0.2%				
Total	100.0%	5.4%	5.2%	0.3%	0.3%	0.0%	0.0%	0.3%				



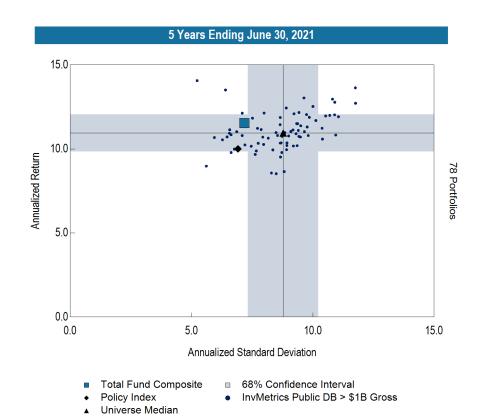


# Howard County Retirement Plans TOTAL FUND RISK/RETURN (GROSS)



- Total Fund Composite
- 68% Confidence Interval
- Policy Index
- InvMetrics Public DB > \$1B Gross
- ▲ Universe Median

	3 Years Ending Ju	ine 30, 2021		
	Anlzd Ret	Anlzd Std Dev	Sharpe Ratio	Sortino Ratio
Total Fund Composite	12.06%	8.92%	1.22	1.57
Policy Index	10.80%	8.53%	1.13	1.45



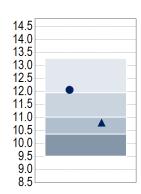
	5 Years Ending Ju	ine 30, 2021		
	Anlzd Ret	Anlzd Std Dev	Sharpe Ratio	Sortino Ratio
Total Fund Composite	11.55%	7.17%	1.45	1.68
Policy Index	10.01%	6.91%	1.29	1.56



## TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

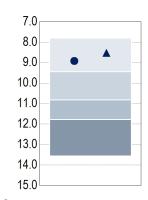
Total Fund Composite vs. InvMetrics Public DB > \$1B Gross 3 Years

#### **Anizd Return**



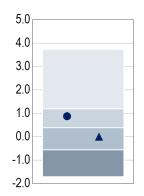
 Total Fund Composite Value 12.06 23 Rank ▲ Policy Index 10.80 Value Rank 60 Universe 5th %tile 13.26 25th %tile 11.96 Median 11.03 75th %tile 10.37 95th %tile 9.53

#### **Anizd Standard Deviation**



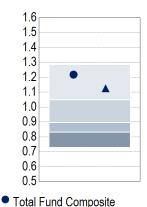
 Total Fund Composite Value 8.92 20 Rank ▲ Policy Index 8.53 Value Rank 16 Universe 5th %tile 7.80 25th %tile 9.43 Median 10.81 75th %tile 11.76 95th %tile 13.55

#### Anizd Alpha



Total Fund Composite Value 0.87 34 Rank Policy Index Value 0.00 Rank 61 Universe 5th %tile 3.74 25th %tile 1.20 Median 0.40 75th %tile -0.5595th %tile -1.70

#### Sharpe Ratio



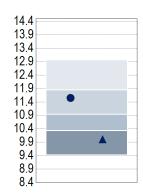
Value 1.22 10 Rank Policy Index Value 1.13 Rank 17 Universe 5th %tile 1.29 25th %tile 1.05 Median 0.90 75th %tile 0.83 95th %tile 0.73



## TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

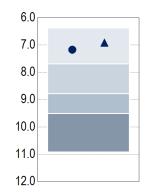
Total Fund Composite vs. InvMetrics Public DB > \$1B Gross 5 Years

#### Anizd Return



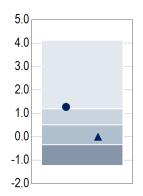
 Total Fund Composite Value 11.55 29 Rank ▲ Policy Index 10.01 Value 86 Rank Universe 5th %tile 12.97 25th %tile 11.86 Median 10.95 75th %tile 10.35 95th %tile 9.44

#### Anizd Standard Deviation



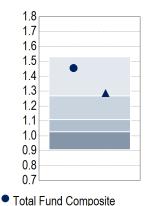
 Total Fund Composite Value 7.17 20 Rank ▲ Policy Index 6.91 Value Rank 15 Universe 5th %tile 6.38 25th %tile 7.68 Median 8.78 75th %tile 9.50 95th %tile 10.91

#### Anizd Alpha



Total Fund Composite Value 1.27 22 Rank Policy Index Value 0.00 Rank 66 Universe 5th %tile 4.12 25th %tile 1.20 Median 0.53 75th %tile -0.33 95th %tile -1.22

#### Sharpe Ratio



1.45

13 Rank Policy Index 1.29 Value 23 Rank Universe 5th %tile 1.53 25th %tile 1.27 Median 1.11 75th %tile 1.03 95th %tile 0.91

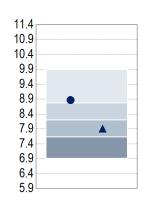
Value



## TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

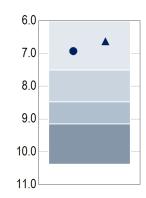
Total Fund Composite vs. InvMetrics Public DB > \$1B Gross 7 Years

#### Anizd Return



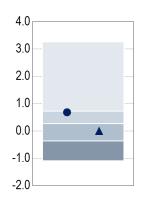
 Total Fund Composite Value 8.87 20 Rank ▲ Policy Index 7.91 Value 64 Rank Universe 5th %tile 9.89 25th %tile 8.78 Median 8.22 75th %tile 7.64 95th %tile 6.92

#### Anizd Standard Deviation



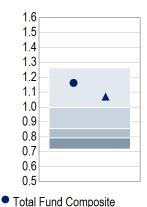
 Total Fund Composite Value 6.93 18 Rank ▲ Policy Index 6.63 Value Rank 12 Universe 5th %tile 6.01 25th %tile 7.50 Median 8.47 75th %tile 9.14 95th %tile 10.38

#### Anizd Alpha



Total Fund Composite Value 0.68 Rank 27 Policy Index Value 0.00 Rank 61 Universe 5th %tile 3.26 25th %tile 0.74 Median 0.28 75th %tile -0.3695th %tile -1.08

#### Sharpe Ratio



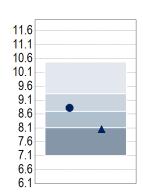
Value 1.16 9 Rank Policy Index Value 1.07 Rank 21 Universe 5th %tile 1.26 25th %tile 1.00 Median 0.86 75th %tile 0.79 95th %tile 0.72



## TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

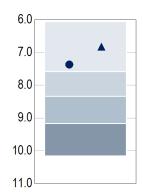
Total Fund Composite vs. InvMetrics Public DB > \$1B Gross
10 Years

#### Anizd Return



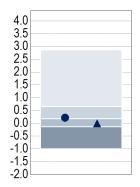
 Total Fund Composite Value 8.82 47 Rank ▲ Policy Index 8.06 Value Rank 80 Universe 5th %tile 10.47 25th %tile 9.34 Median 8.71 75th %tile 8.13 95th %tile 7.11

#### **Anlzd Standard Deviation**



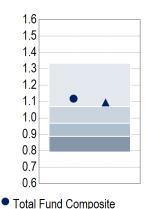
 Total Fund Composite Value 7.37 21 Rank ▲ Policy Index 6.83 Value Rank 11 Universe 5th %tile 6.06 25th %tile 7.58 Median 8.33 75th %tile 9.16 95th %tile 10.14

#### **Anizd Alpha**



Total Fund Composite Value 0.22 Rank 44 Policy Index 0.00 Value Rank 61 Universe 5th %tile 2.87 25th %tile 0.66 Median 0.19 75th %tile -0.12 95th %tile -0.98

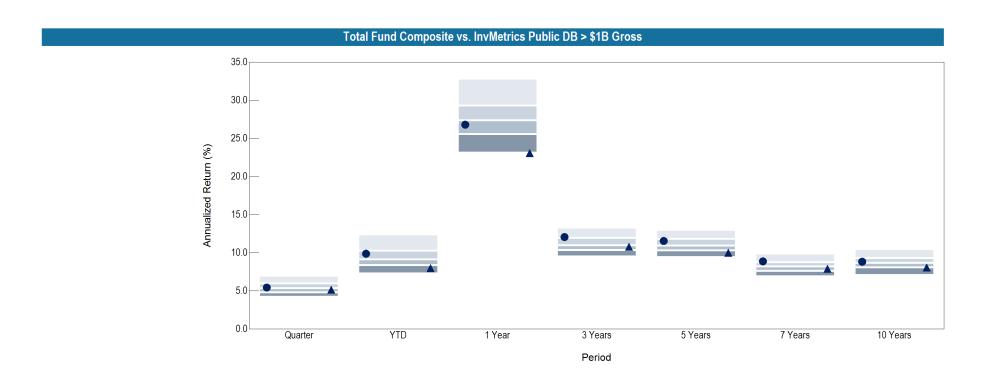
#### Sharpe Ratio



Value 1.12 21 Rank Policy Index Value 1.09 23 Rank Universe 5th %tile 1.33 25th %tile 1.07 Median 0.97 75th %tile 0.89 95th %tile 0.79



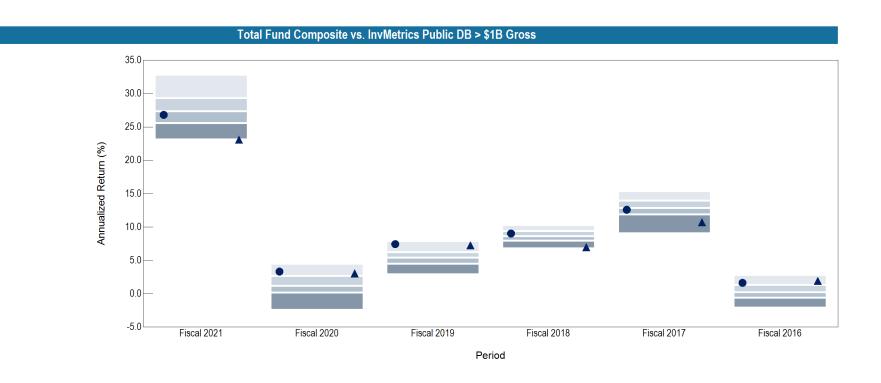
# TOTAL RETURN SUMMARY VS. PEER UNIVERSE (GROSS)



	Return (Rank)						
5th Percentile	7.0	12.4	32.8	13.3	13.0	9.9	10.5
25th Percentile	6.0	10.3	29.4	12.0	11.9	8.8	9.3
Median	5.4	9.2	27.4	11.0	11.0	8.2	8.7
75th Percentile	4.8	8.4	25.6	10.4	10.4	7.6	8.1
95th Percentile	4.3	7.3	23.2	9.5	9.4	6.9	7.1
# of Portfolios	78	78	78	78	78	77	74
Total Fund Composite	5.4 (44)	9.9 (31)	26.8 (56)	12.1 (23)	11.5 (29)	8.9 (20)	8.8 (47)
Policy Index	5.2 (59)	8.0 (87)	23.1 (96)	10.8 (60)	10.0 (86)	7.9 (64)	8.1 (80)



# FISCAL RETURN SUMMARY VS. PEER UNIVERSE (GROSS)



	Return (Rank)											
5th Percentile	32.8		4.5		7.9		10.3		15.3		2.8	
25th Percentile	29.4		2.7		6.2		9.4		14.0		1.4	
Median	27.4		1.2		5.4		8.7		12.9		0.3	
75th Percentile	25.6		0.2		4.5		8.0		11.9		-0.6	
95th Percentile	23.2		-2.4		2.9		6.8		9.1		-2.1	
# of Portfolios	78		82		88		62		108		91	
Total Fund Composite	26.8	(56)	3.3	(16)	7.4	(9)	9.0	(35)	12.6	(61)	1.6	(22)
Policy Index	23.1	(96)	3.0	(17)	7.2	(14)	7.0	(91)	10.7	(91)	1.9	(15)

Fiscal year ends 6/30.



## TOTAL FUND ALLOCATIONS VS. PEER UNIVERSE

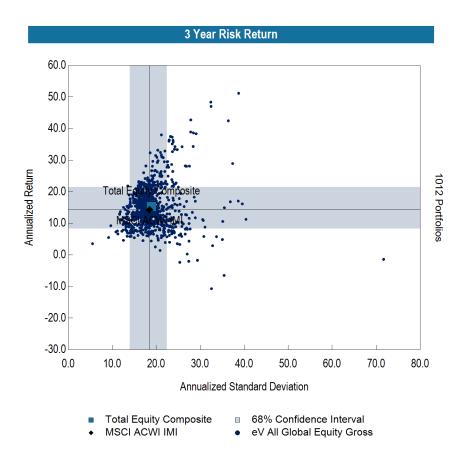
#### Total Plan Allocation vs. InvMetrics Public DB > \$1B Gross 80.0 70.0 60.0 50.0 Allocation (%) 40.0 30.0 20.0 10.0 Dev ex-US Eq. **Emg Mkt Equity** Glbl FI US Fixed Inco. Emg Mkt FI Hedge Funds Real Assets Cash

5th Percentile 25th Percentile Median 75th Percentile 95th Percentile # of Portfolios

Total Fund Composite

Allocation	(Rank)																			
42.7	, ,	15.1		8.9		8.8		29.0		5.4		14.7		29.6		11.5		5.2		-
34.3		9.5		7.3		4.7		18.9		4.3		7.4		15.1		6.5		2.9		-
27.5		5.2		6.3		2.9		12.6		3.2		4.2		10.8		4.1		1.7		-
15.4		1.5		4.2		1.7		8.4		1.4		1.1		7.1		1.4		0.9		-
5.5		0.5		2.2		0.0		3.5		0.2		0.1		2.6		0.1		0.2		-
48		29		39		23		46		27		38		44		31		54		-
28.3	(43)	10.6	(23)	6.4	(47)	3.5	(42)	19.9	(18)	3.3	(47)	9.8	(14)	13.5	(37)	3.3	(57)	1.1	(65)	-



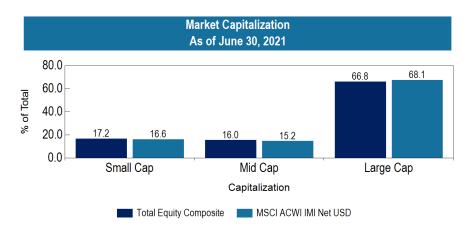


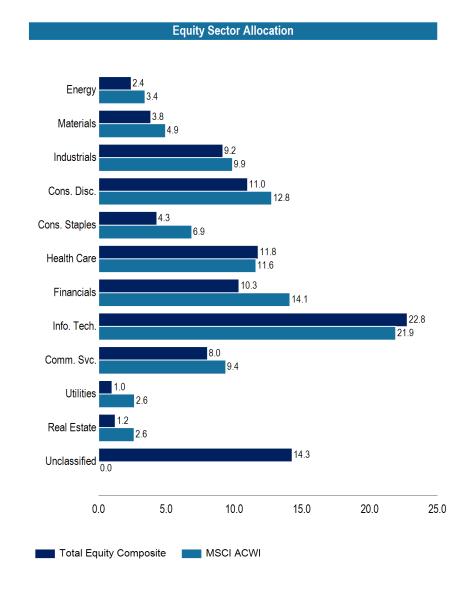




Characteristics		
	Portfolio	MSCI ACWI IMI Net USD
Number of Holdings	928	9,252
Weighted Avg. Market Cap. (\$B)	322.7	298.7
Median Market Cap. (\$B)	20.8	2.4
Price To Earnings	24.7	22.9
Price To Book	4.0	3.6
Price To Sales	2.7	2.2
Return on Equity (%)	19.8	14.9
Yield (%)	1.3	1.7
Beta	1.0	1.0
R-Squared	1.0	1.0

	Portfolio Q2-21	Index Q2-21
Region Weighting		
Americas	80.57	60.19
Europe	10.00	18.70
Asia/Pacific	9.01	19.32
Other	0.42	1.80







Top Ten Holdings	
MONDRIAN INTL EQUITY FUND LP	12.9%
APPLE INC	3.0%
MICROSOFT CORP	2.2%
AMAZON.COM INC	2.1%
ALPHABET INC	1.9%
FACEBOOK INC	1.5%
CASH - USD	1.0%
VISA INC	1.0%
NVIDIA CORPORATION	0.9%
ASML HOLDING NV	0.8%

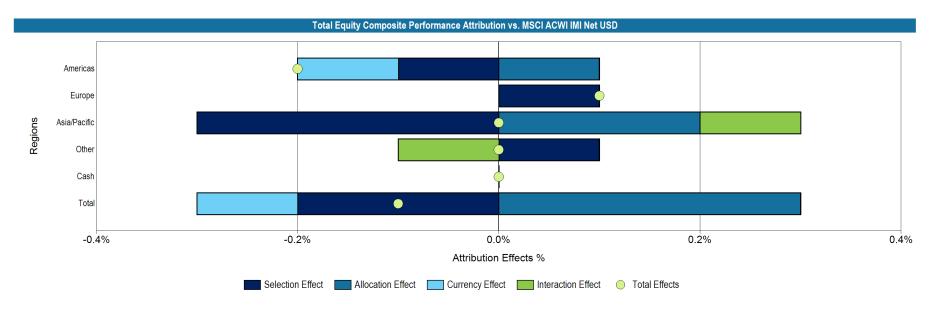
Top Positive Contr	ibutors	
	Relative	
	Contribution %	Return %
ALPHABET INC	0.1%	18.4%
NVIDIA CORPORATION	0.1%	49.9%
TARGET CORP	0.1%	22.4%
INTUIT INC.	0.1%	28.1%
NIBE INDUSTRIER AB, MARKARYD	0.1%	36.2%
ZALANDO SE	0.1%	23.1%
FUJIFILM HOLDINGS CORP	0.1%	25.0%
MORGAN STANLEY	0.1%	18.6%
METTLER-TOLEDO INTERNATIONAL INC	0.1%	19.9%
ATLASSIAN CORP PLC	0.1%	21.9%

Top Negative Contributors					
	Relative				
	Contribution %	Return %			
ALPHABET INC	-0.1%	21.2%			
DISCOVERY INC	-0.1%	-29.4%			
TRAINLINE PLC	0.0%	-35.9%			
ADOBE INC	0.0%	23.2%			
RHYTHM TECHNOLOGIES INC	0.0%	-52.2%			
MICROSOFT CORP	0.0%	15.2%			
ELI LILLY AND CO	0.0%	23.4%			
NEW ORIENTAL EDUCATION & TECHNOLOGY GROUP INC	0.0%	-41.5%			
SLEEP NUMBER CORP	0.0%	-23.4%			
EXXON MOBIL CORP	0.0%	14.6%			

Equity Sector Attribution									
		Attribution Effects			R	eturns	Sect	Sector Weights	
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark	
Energy	-0.1%	0.0%	0.2%	-0.3%	8.3%	20.5%	2.8%	0.1%	
Materials	0.0%	0.1%	-0.1%	0.1%	8.3%	3.5%	3.1%	1.8%	
Industrials	-0.6%	-0.1%	-0.4%	-0.1%	4.0%	5.4%	11.6%	5.3%	
Consumer Discretionary	0.1%	-0.2%	0.3%	0.1%	5.9%	7.0%	13.4%	18.8%	
Consumer Staples	-0.3%	-0.1%	-0.1%	-0.1%	3.7%	7.4%	5.5%	2.3%	
Health Care	-0.9%	-0.7%	0.2%	-0.4%	6.9%	14.8%	13.8%	8.4%	
Financials	-0.6%	-0.1%	0.1%	-0.6%	6.7%	12.4%	12.3%	2.1%	
Information Technology	-1.0%	-1.4%	-0.3%	0.6%	10.2%	13.2%	24.7%	44.0%	
Communication Services	-0.9%	-1.1%	-0.2%	0.4%	7.9%	15.2%	9.5%	15.0%	
Utilities	0.0%				1.5%		2.1%	0.0%	
Real Estate	-0.1%	-0.1%	0.0%	0.0%	10.0%	14.5%	1.4%	2.3%	
Cash	0.0%						0.0%	0.0%	
Portfolio	-4.4%	= -3.7%	+ -0.4%	+ -0.3%	7.1%	11.8%	100.0%	100.0%	

Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of the period portfolio. Results may differ from theflash report.





Returns and Weights				Attribution Effects					
	Manager Return	Index Return	Manager Weight	Index Weight	Selection Effect	Allocation Effect	Currency Effect	Interaction Effect	Total Effects
Totals									
Americas	8.2%	8.6%	67.7%	61.1%	-0.1%	0.1%	-0.1%	0.0%	-0.2%
Europe	8.3%	7.8%	16.3%	17.2%	0.1%	0.0%	0.0%	0.0%	0.1%
Asia/Pacific	1.5%	2.9%	15.9%	20.3%	-0.3%	0.2%	0.0%	0.1%	0.0%
Other	10.5%	5.2%	0.1%	1.4%	0.1%	0.0%	0.0%	-0.1%	0.0%
Cash			0.0%	0.0%		0.0%	0.0%		0.0%
Total	7.2%	7.3%	100.0%	100.0%	-0.2%	0.3%	-0.1%	0.0%	-0.1%
Totals									
Developed	7.4%	7.5%	93.1%	87.2%	0.0%	0.0%	-0.1%	0.0%	0.0%
Emerging*	3.3%	5.7%	6.9%	12.8%	-0.3%	0.1%	-0.1%	0.2%	-0.1%



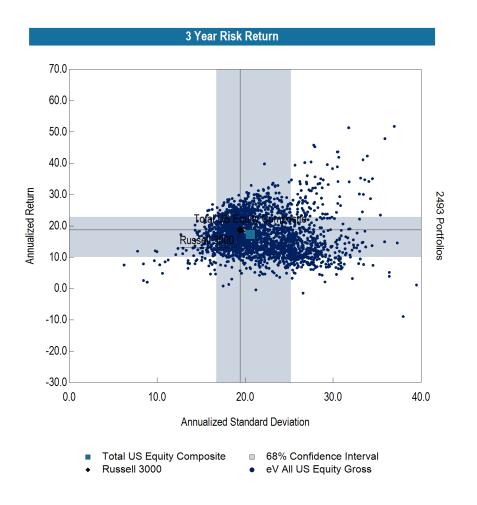
Country Allocation						
	Manager	Index	Manager	Index		
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)		
Americas						
Brazil*	0.4%	0.6%	29.7%	24.6%		
Canada	0.1%	2.9%	10.4%	10.2%		
Mexico*	0.3%	0.2%	2.2%	9.3%		
United States	66.9%	57.3%	8.1%	8.4%		
Total-Americas	67.7%	61.1%	8.2%	8.6%		
Europe						
Denmark	0.2%	0.6%	25.8%	13.0%		
Finland	0.2%	0.3%	-0.2%	10.7%		
France	2.0%	2.7%	12.4%	9.4%		
Germany	1.3%	2.4%	11.6%	5.4%		
Ireland	1.4%	0.2%	8.7%	2.9%		
Italy	0.7%	0.6%	-1.2%	4.7%		
Luxembourg	0.3%	0.0%	2.9%	7.3%		
Netherlands	1.0%	1.1%	9.0%	7.2%		
Portugal	0.2%	0.0%	10.3%	0.9%		
Russia*	0.7%	0.3%	13.1%	14.4%		
Spain	0.9%	0.6%	11.2%	4.7%		
Sweden	1.6%	1.1%	8.4%	7.3%		
Switzerland	0.9%	2.3%	11.4%	11.8%		
United Kingdom	5.0%	4.0%	4.8%	5.8%		
Total-Europe	16.3%	17.2%	8.3%	7.8%		

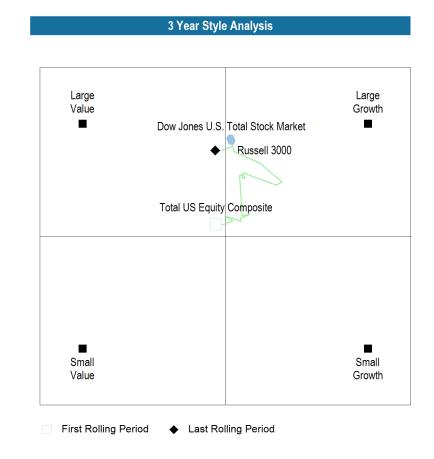
Country Allocation						
	Manager	Index	Manager	Index		
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)		
AsiaPacific						
Australia	0.9%	2.0%	17.7%	6.9%		
China*	2.3%	4.5%	-4.5%	2.7%		
Hong Kong	1.6%	0.9%	3.4%	2.5%		
India*	1.5%	1.3%	4.6%	8.3%		
Indonesia*	0.1%	0.2%	-1.5%	-4.7%		
Japan	6.9%	6.9%	0.4%	-0.3%		
Korea*	0.6%	1.8%	-0.3%	5.2%		
New Zealand	0.3%	0.1%	-1.1%	-1.2%		
Singapore	0.8%	0.3%	1.6%	0.7%		
Taiwan*	1.0%	1.9%	3.7%	7.8%		
Total-AsiaPacific	15.9%	20.3%	1.5%	2.9%		
Other						
Israel	0.1%	0.2%	10.5%	8.2%		
Total-Other	0.1%	1.4%	10.5%	5.2%		
Totals						
Developed	93.1%	87.2%	7.4%	7.5%		
Emerging*	6.9%	12.8%	3.3%	5.7%		

Country\* = Emerging Markets



# Howard County Retirement Plans TOTAL US EQUITY COMPOSITE

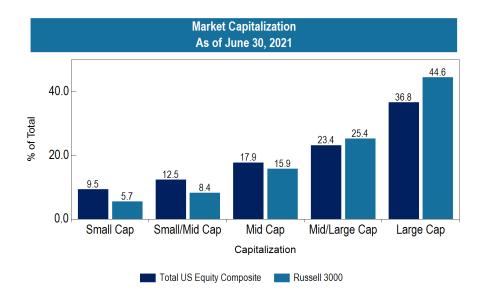


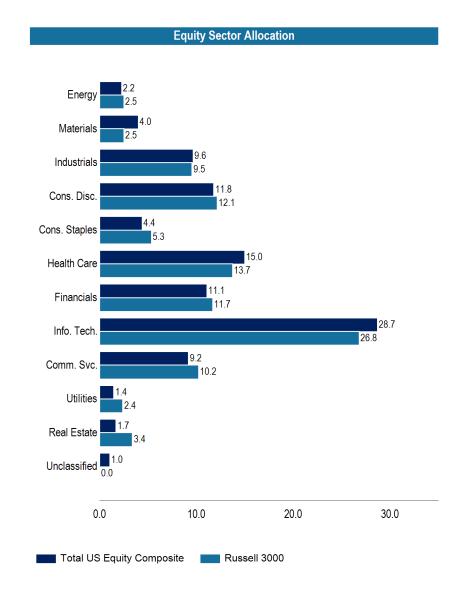




# Howard County Retirement Plans TOTAL US EQUITY COMPOSITE

Characteristics					
	Portfolio	Russell 3000			
Number of Holdings	807	2,916			
Weighted Avg. Market Cap. (\$B)	381.9	408.7			
Median Market Cap. (\$B)	19.5	2.8			
Price To Earnings	24.4	26.5			
Price To Book	4.0	4.4			
Price To Sales	2.6	3.2			
Return on Equity (%)	20.5	18.4			
Yield (%)	1.2	1.3			
Beta	1.1	1.0			
R-Squared	1.0	1.0			







# Howard County Retirement Plans TOTAL US EQUITY COMPOSITE

Top Ten Holdings	
APPLE INC	4.4%
MICROSOFT CORP	3.3%
AMAZON.COM INC	3.2%
ALPHABET INC	2.8%
FACEBOOK INC	2.2%
VISA INC	1.4%
PAYPAL HOLDINGS INC	1.1%
SALESFORCE.COM INC	1.1%
NVIDIA CORPORATION	1.0%
MORGAN STANLEY	1.0%

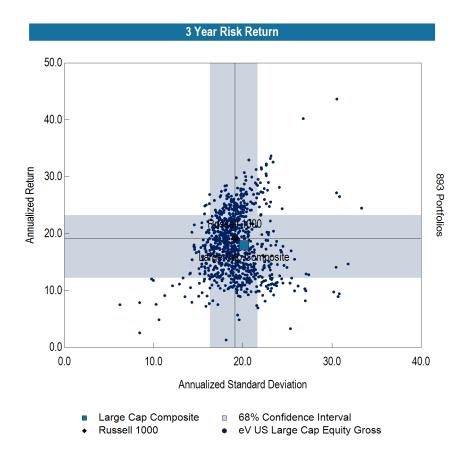
Top Positive Contributors					
	Relative				
	Contribution %	Return %			
ALPHABET INC	0.2%	18.4%			
TARGET CORP	0.1%	22.4%			
INTUIT INC.	0.1%	28.1%			
MORGAN STANLEY	0.1%	18.6%			
ATLASSIAN CORP PLC	0.1%	21.9%			
SALESFORCE.COM INC	0.1%	15.3%			
FACEBOOK INC	0.1%	18.1%			
NIKE INC	0.1%	16.5%			
NVIDIA CORPORATION	0.1%	49.9%			
TRANE TECHNOLOGIES PLC	0.1%	11.6%			

Top Negative Contr					
	Relative Contribution %	Return %			
ALPHABET INC	-0.2%	21.2%			
MICROSOFT CORP	-0.1%	15.2%			
DISCOVERY INC	-0.1%	-29.4%			
ADOBE INC	-0.1%	23.2%			
IRHYTHM TECHNOLOGIES INC	-0.1%	-52.2%			
BERKSHIRE HATHAWAY INC	-0.1%	8.8%			
ELI LILLY AND CO	-0.1%	23.4%			
EXXON MOBIL CORP	-0.1%	14.6%			
SLEEP NUMBER CORP	0.0%	-23.4%			
UNITEDHEALTH GROUP INC	0.0%	8.0%			

			Equi	ty Sector Attributior	1			
			Attribution Effects		R	leturns	Sect	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	11.8%	12.4%	1.9%	2.3%
Materials	0.0%	0.0%	0.0%	0.0%	5.8%	4.9%	2.8%	2.9%
Industrials	0.0%	0.0%	0.0%	0.0%	3.9%	3.9%	10.1%	9.9%
Consumer Discretionary	0.0%	0.0%	0.0%	0.0%	7.1%	6.7%	12.6%	12.3%
Consumer Staples	0.1%	0.0%	0.0%	0.0%	3.9%	3.6%	4.6%	5.6%
Health Care	-0.2%	-0.1%	0.0%	0.0%	7.2%	8.2%	15.4%	13.6%
Financials	0.1%	0.0%	0.0%	0.0%	7.7%	7.3%	10.6%	11.7%
Information Technology	-0.2%	-0.2%	0.1%	0.0%	10.5%	11.4%	28.9%	25.7%
Communication Services	-0.1%	-0.1%	0.0%	0.0%	9.9%	11.0%	9.5%	10.0%
Utilities	0.1%	0.1%	0.1%	0.0%	1.8%	-0.4%	1.6%	2.6%
Real Estate	0.0%	0.0%	-0.1%	0.0%	12.0%	11.7%	1.8%	3.3%
Cash	0.0%					-	0.0%	0.0%
Portfolio	-0.2%	= -0.3%	+ 0.1%	+ -0.1%	8.0%	8.2%	100.0%	100.0%



# Howard County Retirement Plans LARGE CAP COMPOSITE

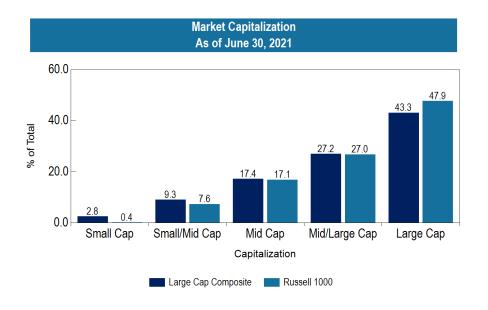


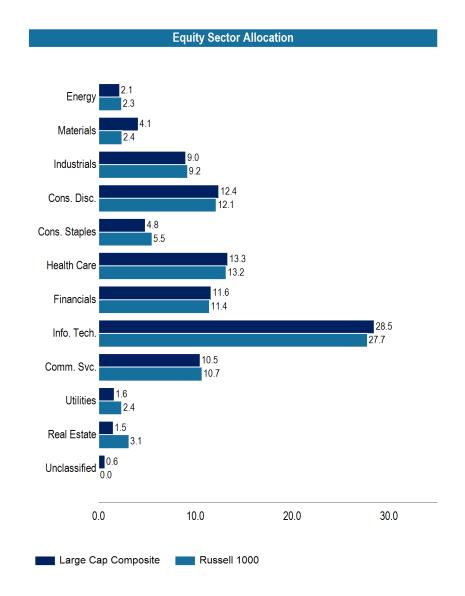




# Howard County Retirement Plans LARGE CAP COMPOSITE

Characteristics						
	Portfolio	Russell 1000				
Number of Holdings	604	1,011				
Weighted Avg. Market Cap. (\$B)	448.5	476.7				
Median Market Cap. (\$B)	28.7	15.9				
Price To Earnings	23.8	27.6				
Price To Book	4.1	4.7				
Price To Sales	2.6	3.5				
Return on Equity (%)	23.5	23.0				
Yield (%)	1.3	1.3				
Beta	1.0	1.0				
R-Squared	1.0	1.0				







# Howard County Retirement Plans LARGE CAP COMPOSITE

Top Ten Holdings	
APPLE INC	5.2%
MICROSOFT CORP	3.9%
AMAZON.COM INC	3.8%
ALPHABET INC	3.3%
FACEBOOK INC	2.7%
VISA INC	1.7%
PAYPAL HOLDINGS INC	1.3%
SALESFORCE.COM INC	1.3%
NVIDIA CORPORATION	1.2%
MORGAN STANLEY	1.2%

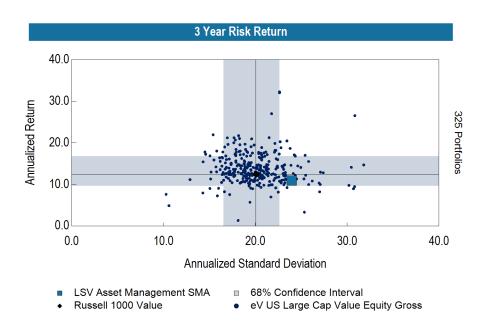
Top Positive Contributors				
	Relative			
	Contribution %	Return %		
ALPHABET INC	0.3%	18.4%		
TARGET CORP	0.2%	22.4%		
INTUIT INC.	0.2%	28.1%		
MORGAN STANLEY	0.2%	18.6%		
NVIDIA CORPORATION	0.1%	49.9%		
FACEBOOK INC	0.1%	18.1%		
SALESFORCE.COM INC	0.1%	15.3%		
ATLASSIAN CORP PLC	0.1%	21.9%		
NIKE INC	0.1%	16.5%		
AMAZON.COM INC	0.1%	11.2%		

Top Negative Contributors						
	Contribution %	Return %				
ALPHABET INC	-0.2%	21.2%				
DISCOVERY INC	-0.2%	-29.4%				
MICROSOFT CORP	-0.1%	15.2%				
ADOBE INC	-0.1%	23.2%				
BERKSHIRE HATHAWAY INC	-0.1%	8.8%				
ELI LILLY AND CO	-0.1%	23.4%				
SLEEP NUMBER CORP	-0.1%	-23.4%				
EXXON MOBIL CORP	-0.1%	14.6%				
INTEL CORP	0.0%	-11.7%				
UNITEDHEALTH GROUP INC	0.0%	8.0%				

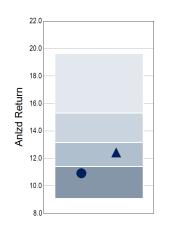
			Equit	y Sector Attribution				
			Attribution Effects		R	eturns	Sect	or Weights
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	11.6%	11.7%	1.8%	2.3%
Materials	0.0%	0.0%	0.0%	0.0%	5.9%	4.8%	2.7%	2.8%
Industrials	0.0%	0.0%	0.0%	0.0%	4.7%	4.3%	9.6%	9.4%
Consumer Discretionary	0.1%	0.1%	0.0%	0.0%	8.0%	6.8%	13.3%	12.2%
Consumer Staples	0.0%	0.0%	0.0%	0.0%	3.8%	3.6%	5.1%	5.8%
Health Care	0.0%	0.0%	0.0%	0.0%	8.5%	8.8%	13.6%	13.1%
Financials	0.1%	0.1%	0.0%	0.0%	8.8%	8.0%	10.9%	11.4%
Information Technology	-0.1%	-0.1%	0.1%	0.0%	11.2%	11.6%	28.7%	26.7%
Communication Services	-0.1%	-0.1%	0.0%	0.0%	10.1%	10.7%	10.9%	10.6%
Utilities	0.1%	0.1%	0.1%	0.0%	2.2%	-0.4%	1.8%	2.6%
Real Estate	-0.1%	0.0%	-0.1%	0.0%	12.2%	12.4%	1.6%	3.0%
Cash	0.0%						0.0%	0.0%
Portfolio	0.2%	= 0.2%	+ 0.1%	+ 0.0%	8.7%	8.5%	100.0%	100.0%

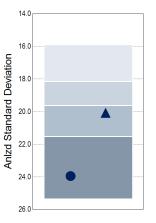


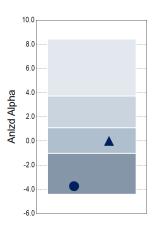
# Howard County Retirement Plans LSV ASSET MANAGEMENT SMA

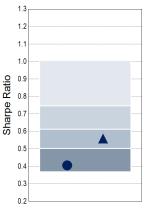


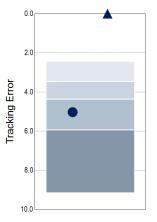


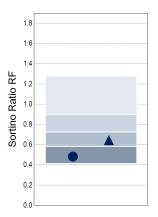






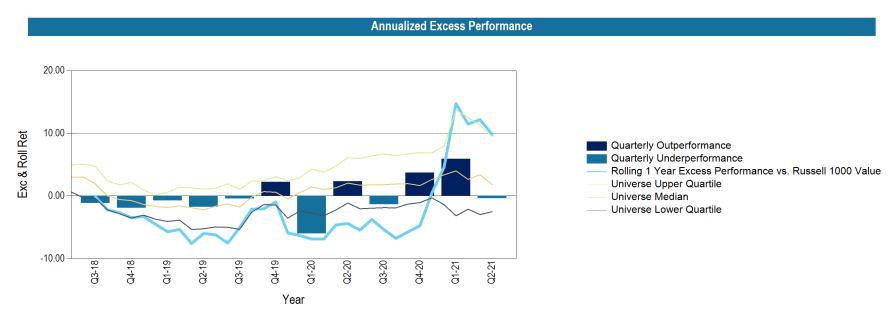


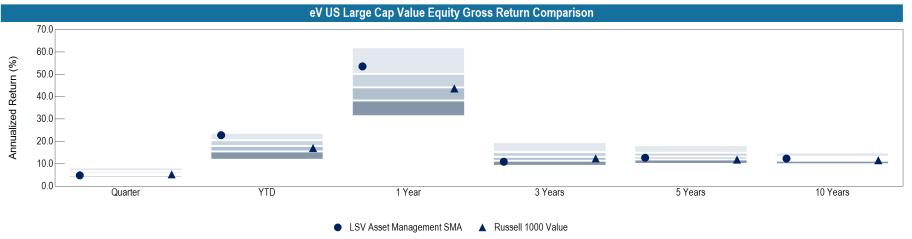






# Howard County Retirement Plans LSV ASSET MANAGEMENT SMA







### Howard County Retirement Plans LSV ASSET MANAGEMENT SMA

Top Ten Holdings	
INTEL CORP	2.4%
MERCK & CO INC	2.3%
VERIZON COMMUNICATIONS INC	1.7%
CITIGROUP INC	1.6%
AT&T INC	1.5%
PFIZER INC	1.5%
BRISTOL-MYERS SQUIBB CO	1.4%
CUMMINS INC.	1.3%
KROGER CO. (THE)	1.2%
MORGAN STANLEY	1.1%

Top Positive Contributors					
	Relative				
	Contribution %	Return %			
ALEXION PHARMACEUTICALS INC	0.2%	20.1%			
DISCOVER FINANCIAL SERVICES	0.2%	25.0%			
EBAY INC.	0.2%	15.0%			
CAPITAL ONE FINANCIAL CORP.	0.1%	21.9%			
AMERICAN FINANCIAL GROUP INC	0.1%	22.6%			
KNOLL INC	0.1%	57.8%			
VEREIT INC	0.1%	20.1%			
SELECT MEDICAL HOLDINGS CORP	0.1%	24.3%			
HCA HEALTHCARE INC	0.1%	10.0%			
ALLSTATE CORP (THE)	0.1%	14.2%			

Top Negative Contr	<b>ibutors</b> Relative	
	Contribution %	Return %
SLEEP NUMBER CORP	-0.2%	-23.4%
EXXON MOBIL CORP	-0.2%	14.6%
INTEL CORP	-0.1%	-11.7%
WELLS FARGO & CO	-0.1%	16.2%
CUMMINS INC.	-0.1%	-5.4%
AGCO CORP	-0.1%	-6.7%
MATTHEWS INTERNATIONAL CORP	0.0%	-8.6%
HP INC	0.0%	-4.3%
UNITED AIRLINES HOLDINGS INC	0.0%	-9.1%
HARTFORD FINANCIAL SERVICES GROUP INC. (THE)	0.0%	-6.7%

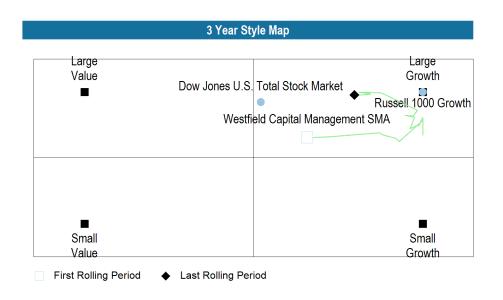
			Equit	ty Sector Attributior	1			
	Total	Selection	Attribution Effects Allocation	Interaction	F	Returns	Secto	or Weights
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	-0.1%	0.0%	-0.1%	0.0%	12.0%	11.5%	2.8%	4.5%
Materials	0.1%	0.1%	0.0%	0.0%	6.5%	5.2%	6.2%	4.8%
Industrials	0.1%	0.0%	0.1%	0.0%	3.1%	3.0%	11.7%	14.0%
Consumer Discretionary	-0.2%	-0.2%	0.0%	-0.1%	3.1%	5.1%	11.8%	7.9%
Consumer Staples	-0.2%	-0.2%	0.0%	0.0%	0.4%	3.4%	7.2%	7.1%
Health Care	0.3%	0.3%	0.0%	0.0%	9.2%	6.7%	12.4%	12.6%
Financials	0.2%	0.1%	0.0%	0.0%	8.2%	7.6%	21.8%	20.8%
Information Technology	0.0%	0.1%	-0.2%	0.0%	2.1%	1.1%	13.4%	9.6%
Communication Services	-0.2%	-0.3%	0.0%	0.1%	0.0%	3.6%	6.6%	9.3%
Utilities	0.3%	0.3%	0.1%	-0.1%	5.6%	-0.4%	2.8%	5.1%
Real Estate	-0.1%	0.0%	-0.1%	0.0%	10.9%	10.8%	1.8%	4.4%
Cash	-0.1%	0.0%	-0.1%	0.0%	0.0%		1.6%	0.0%
Portfolio	-0.1%	= 0.3%	+ -0.3%	+ -0.1%	5.1%	5.1%	100.0%	100.0%

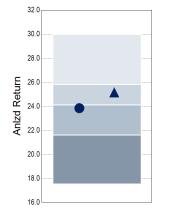


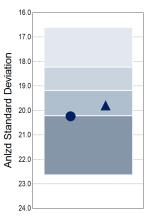
#### **WESTFIELD CAPITAL MANAGEMENT SMA**

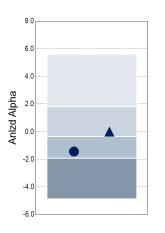


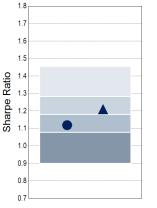
- Westfield Capital Management SMA
- ◆ Russell 1000 Growth
- 68% Confidence Interval
- eV US Large Cap Growth Equity Gross

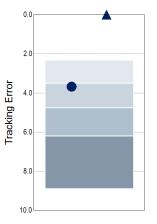


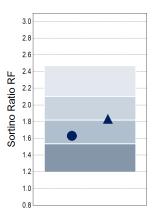






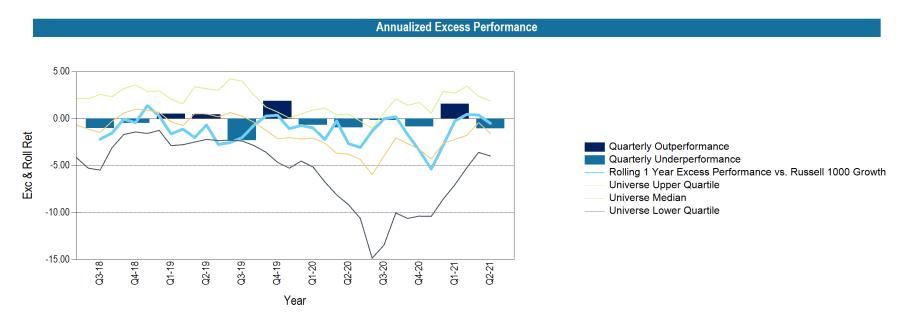








#### **WESTFIELD CAPITAL MANAGEMENT SMA**







#### **WESTFIELD CAPITAL MANAGEMENT SMA**

Top Ten Holdings	
APPLE INC	8.7%
ALPHABET INC	7.1%
AMAZON.COM INC	6.5%
MICROSOFT CORP	5.6%
FACEBOOK INC	5.1%
VISA INC	3.6%
SALESFORCE.COM INC	2.8%
PAYPAL HOLDINGS INC	2.6%
SERVICENOW INC	2.6%
THERMO FISHER SCIENTIFIC INC	2.5%

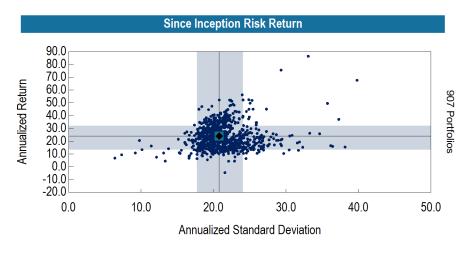
Top Positive Cont	Relative Contribution	Return %
	%	
ALPHABET INC	0.7%	18.4%
INTUIT INC.	0.4%	28.1%
TARGET CORP	0.4%	22.4%
MORGAN STANLEY	0.3%	18.6%
ATLASSIAN CORP PLC	0.3%	21.9%
SALESFORCE.COM INC	0.3%	15.3%
TRANE TECHNOLOGIES PLC	0.2%	11.6%
NIKE INC	0.2%	16.5%
TRANSDIGM GROUP INC	0.2%	10.1%
THERMO FISHER SCIENTIFIC INC	0.2%	10.6%

Top Negative Conf	tributors Relative Contribution %	Return %
MICROSOFT CORP	-0.6%	15.2%
DISCOVERY INC	-0.4%	-29.4%
APPLE INC	-0.3%	12.3%
WORKDAY INC	-0.1%	-3.9%
TESLA INC	0.0%	1.8%
BIOGEN INC	0.0%	23.8%
CONOCOPHILLIPS	0.0%	15.9%
FREEPORT-MCMORAN INC	0.0%	12.9%
WESTERN DIGITAL CORP	0.0%	6.6%
NEWMONT CORPORATION	0.0%	6.0%

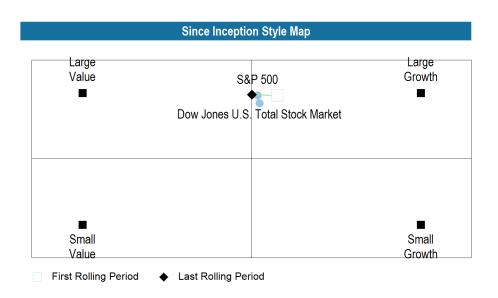
			Equit	y Sector Attribution				
	Total	Selection	Attribution Effects Allocation	Interaction	F	Returns	Secto	or Weights
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%		0.0%			20.2%	0.0%	0.1%
Materials	0.1%		0.1%			3.0%	0.0%	0.8%
Industrials	-0.3%	-0.1%	-0.1%	-0.1%	6.6%	8.3%	8.5%	4.7%
Consumer Discretionary	0.7%	0.7%	0.1%	-0.1%	11.8%	7.6%	15.2%	16.5%
Consumer Staples	0.4%	0.4%	0.2%	-0.2%	12.5%	4.0%	2.2%	4.5%
Health Care	-0.4%	-0.4%	0.0%	0.0%	8.2%	10.8%	15.1%	13.7%
Financials	0.1%	0.1%	0.0%	0.0%	18.6%	12.7%	1.8%	1.9%
Information Technology	-0.3%	-0.3%	0.0%	0.0%	13.2%	13.9%	42.1%	44.2%
Communication Services	-0.3%	-0.4%	0.1%	-0.1%	13.2%	16.2%	14.0%	11.9%
Utilities	0.0%		0.0%			7.8%	0.0%	0.0%
Real Estate	-0.1%	-0.1%	-0.1%	0.1%	11.1%	16.2%	0.4%	1.7%
Cash	-0.1%	0.0%	-0.1%	0.0%	0.0%	-	0.7%	0.0%
Portfolio	-0.3%	= 0.0%	+ 0.1%	+ -0.3%	11.6%	11.9%	100.0%	100.0%

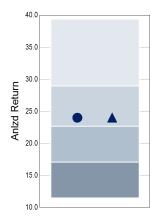


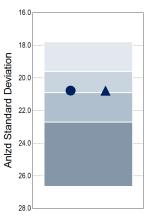
#### **BLACKROCK EQUITY INDEX NON-LENDABLE FUND**

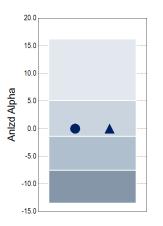


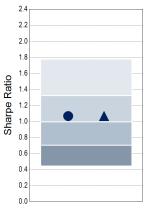
- BlackRock Equity Index Non-Lendable Fund
- ◆ S&P 500
- 68% Confidence Interval
- eV US Large Cap Equity Gross

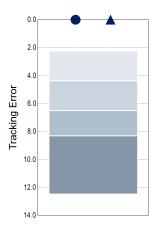


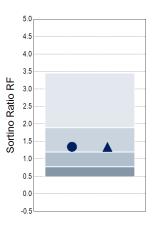






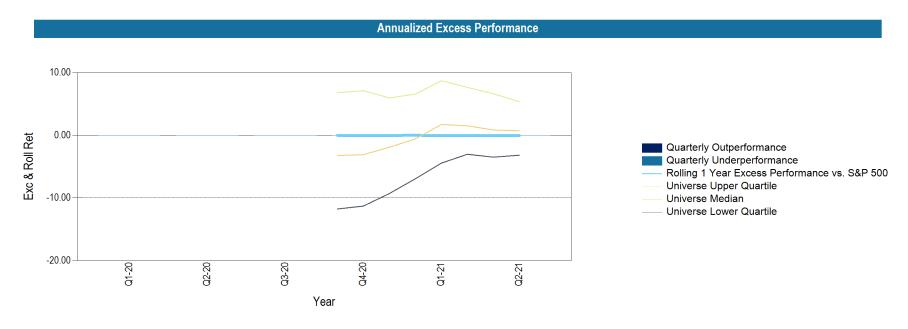








#### **BLACKROCK EQUITY INDEX NON-LENDABLE FUND**







#### **BLACKROCK EQUITY INDEX NON-LENDABLE FUND**

Top Ten Holdings	
APPLE INC	5.9%
MICROSOFT CORP	5.6%
AMAZON.COM INC	4.0%
FACEBOOK INC	2.3%
ALPHABET INC	2.0%
ALPHABET INC	2.0%
BERKSHIRE HATHAWAY INC	1.4%
TESLA INC	1.4%
NVIDIA CORPORATION	1.4%
JPMORGAN CHASE & CO	1.3%

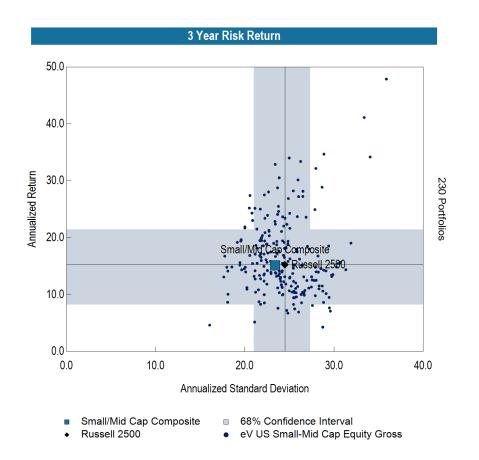
Top Positive Contr	ibutors	
	Relative Contribution	Return %
	%	Ttotairi /
MICROSOFT CORP	0.2%	15.2%
APPLE INC	0.1%	12.3%
NVIDIA CORPORATION	0.1%	49.9%
FACEBOOK INC	0.1%	18.1%
ALPHABET INC	0.1%	18.4%
PAYPAL HOLDINGS INC	0.0%	20.0%
ADOBE INC	0.0%	23.29
ALPHABET INC	0.0%	21.2%
VISA INC	0.0%	10.6%
AMAZON.COM INC	0.0%	11.29

Top Negative Cont	ributors Relative Contribution %	Return %
T-MOBILE US INC	0.0%	15.6%
INTEL CORP	0.0%	-11.7%
WALMART INC	0.0%	4.2%
ORACLE CORP	0.0%	11.4%
WALT DISNEY CO (THE)	0.0%	-4.7%
CHARTER COMMUNICATIONS INC	0.0%	16.9%
CATERPILLAR INC	0.0%	-5.7%
AT&T INC	0.0%	-3.3%
DEERE & CO	0.0%	-5.5%
VERIZON COMMUNICATIONS INC	0.0%	-2.6%

			Equi	ty Sector Attribution	1			
			Attribution Effects		F	Returns	Sect	or Weights
	Total	Selection	Allocation	Interaction	D. W.F.	Beechmad	D. W.F.	Decelored.
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	11.3%	11.3%	2.8%	2.7%
Materials	0.0%	0.0%	0.0%	0.0%	5.0%	4.9%	2.7%	2.6%
Industrials	0.0%	0.0%	0.0%	0.0%	4.5%	4.5%	8.9%	8.7%
Consumer Discretionary	0.0%	0.0%	0.0%	0.0%	6.9%	6.9%	12.4%	13.1%
Consumer Staples	0.0%	0.0%	0.0%	0.0%	3.8%	3.8%	6.1%	6.7%
Health Care	0.0%	0.0%	0.0%	0.0%	8.4%	8.5%	12.9%	12.6%
Financials	0.0%	0.0%	0.0%	0.0%	8.4%	8.5%	11.5%	11.5%
Information Technology	0.0%	0.0%	0.0%	0.0%	11.6%	11.5%	26.6%	26.1%
Communication Services	0.0%	0.0%	0.0%	0.0%	10.7%	11.0%	10.9%	11.0%
Utilities	0.0%	0.0%	0.0%	0.0%	-0.4%	-0.4%	2.7%	2.5%
Real Estate	0.0%	0.0%	0.0%	0.0%	13.1%	13.1%	2.5%	2.4%
Cash	0.0%						0.0%	0.0%
Portfolio	0.0%	= 0.0%	+ 0.0%	+ 0.0%	8.5%	8.6%	100.0%	100.0%



# Howard County Retirement Plans SMALL/MID CAP COMPOSITE



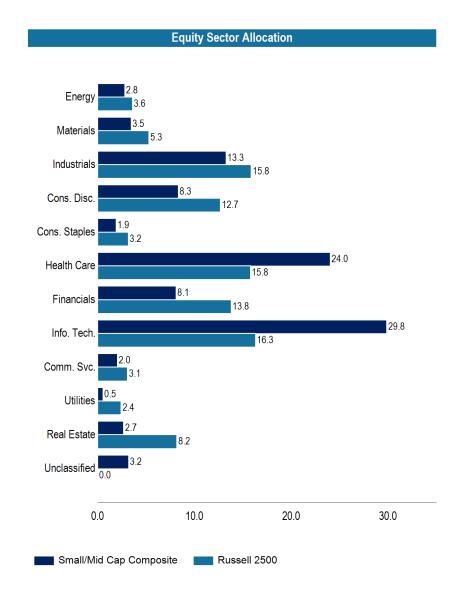




### Howard County Retirement Plans SMALL/MID CAP COMPOSITE

Characteristics		
	Portfolio	Russell 2500
Number of Holdings	218	2,400
Weighted Avg. Market Cap. (\$B)	8.0	7.2
Median Market Cap. (\$B)	3.5	1.9
Price To Earnings	30.0	21.8
Price To Book	3.8	3.1
Price To Sales	3.0	2.1
Return on Equity (%)	6.2	2.9
Yield (%)	0.5	1.1
Beta	0.9	1.0
R-Squared	0.9	1.0







# Howard County Retirement Plans SMALL/MID CAP COMPOSITE

Top Ten Holdings	
CASH - USD	2.3%
ALARM.COM HOLDINGS INC	1.9%
ABIOMED INC	1.8%
BIO-TECHNE CORP	1.8%
VEEVA SYSTEMS INC	1.6%
COGNEX CORP	1.5%
GUIDEWIRE SOFTWARE INC	1.3%
PAYCOM SOFTWARE INC	1.3%
MANHATTAN ASSOCIATES INC	1.3%
TYLER TECHNOLOGIES INC	1.3%

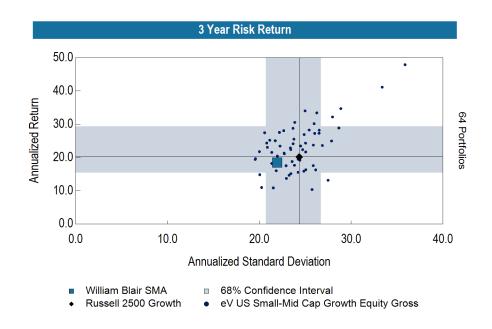
Top Positive Co	ontributors Relative	
	Contribution %	Return %
BIO-TECHNE CORP	0.3%	18.09
VEEVA SYSTEMS INC	0.3%	19.09
MANHATTAN ASSOCIATES INC	0.2%	23.49
DATADOG INC	0.2%	24.99
MATADOR RESOURCES CO	0.2%	53.79
KNOLL INC	0.1%	57.89
INOGEN INC	0.1%	24.19
LANTHEUS HOLDINGS INC	0.1%	29.39
SMARTSHEET INC	0.1%	13.19
AXON ENTERPRISE INC	0.1%	24.19

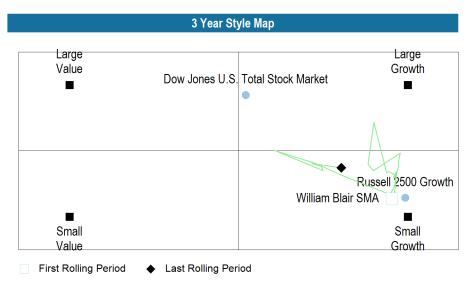
Top Negative Contr	ibutors	
	Relative	
	Contribution %	Return %
IRHYTHM TECHNOLOGIES INC	-0.4%	-52.2%
PROTO LABS INC	-0.2%	-24.6%
GRAND CANYON EDUCATION INC	-0.1%	-16.0%
VERACYTE INC	-0.1%	-25.6%
BWX TECHNOLOGIES INC	-0.1%	-11.6%
BRIGHT HORIZONS FAMILY SOLUTIONS INC	-0.1%	-14.2%
NEW FORTRESS ENERGY INC	-0.1%	-17.3%
TREEHOUSE FOODS INC	-0.1%	-14.8%
PURE STORAGE INC	0.0%	-9.3%
LIGAND PHARMACEUTICALS INC	0.0%	-13.9%

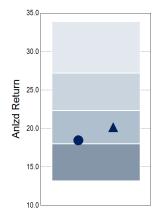
			Equit	y Sector Attribution				
			Attribution Effects		R	leturns	Sect	or Weights
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	-0.3%	-0.2%	-0.1%	0.0%	13.1%	23.0%	2.1%	2.5%
Materials	0.0%	-0.1%	0.0%	0.0%	5.3%	6.2%	3.4%	5.5%
Industrials	-0.2%	-0.4%	0.1%	0.1%	0.7%	3.2%	13.1%	16.4%
Consumer Discretionary	-0.4%	-0.6%	0.0%	0.2%	-0.1%	4.6%	8.6%	13.8%
Consumer Staples	0.1%	0.1%	0.1%	0.0%	4.4%	0.9%	2.1%	3.2%
Health Care	-0.4%	-0.2%	-0.1%	-0.1%	3.4%	4.7%	24.9%	14.8%
Financials	0.0%	-0.4%	0.2%	0.1%	0.2%	2.6%	8.6%	14.7%
Information Technology	-0.1%	-0.3%	0.3%	-0.2%	6.4%	8.1%	29.2%	15.9%
Communication Services	-0.2%	-0.2%	-0.1%	0.1%	5.9%	12.9%	1.7%	2.9%
Utilities	0.1%	-0.1%	0.1%	0.1%	-3.5%	0.0%	0.7%	2.7%
Real Estate	-0.1%	0.2%	-0.2%	-0.1%	11.3%	9.3%	2.9%	7.6%
Cash	-0.1%	0.0%	-0.1%	0.0%	0.0%		2.6%	0.0%
Portfolio	-1.8%	= -2.2%	+ 0.2%	+ 0.2%	3.8%	5.6%	100.0%	100.0%

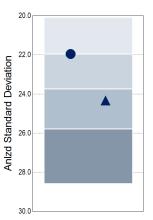


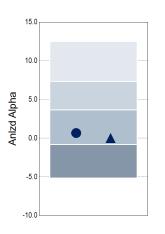
# Howard County Retirement Plans WILLIAM BLAIR SMA

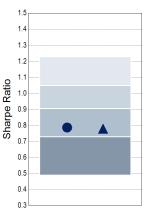


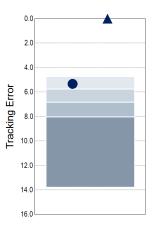


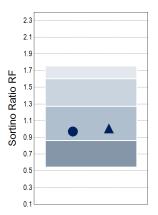






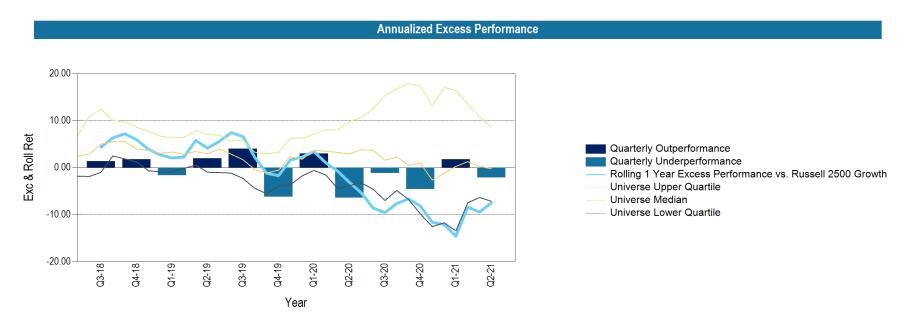








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Top Ten Holdings	
HORIZON THERAPEUTICS PUBLIC LTD CO	2.3%
BWX TECHNOLOGIES INC	2.2%
MARTIN MARIETTA MATERIALS INC.	2.1%
CROWN HOLDINGS INC	2.1%
GENERAC HOLDINGS INC	2.1%
DYNATRACE INC	2.0%
BRINK'S CO (THE)	2.0%
AXON ENTERPRISE INC	2.0%
TREX CO INC	1.9%
BROOKS AUTOMATION INC	1.9%

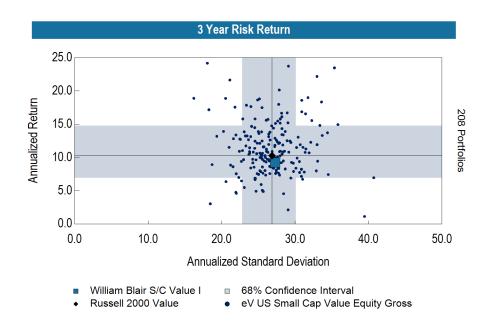
Top Positive Co	ntributors	
	Relative	
	Contribution %	Return %
AXON ENTERPRISE INC	0.3%	24.1%
CHARLES RIVER LABORATORIES INTERNATIONAL INC	0.3%	27.6%
BIO-TECHNE CORP	0.3%	18.0%
CELSIUS HOLDINGS INC	0.3%	58.4%
GENERAC HOLDINGS INC	0.3%	26.8%
BROOKS AUTOMATION INC	0.2%	16.8%
HEALTHEQUITY INC	0.2%	18.4%
NICE LTD	0.2%	13.5%
CAMECO CORP	0.2%	15.5%
PROOFPOINT INC	0.2%	38.1%

Top Negative Contr	ibutors	
	Relative	
	Contribution %	Return %
GRAND CANYON EDUCATION INC	-0.4%	-16.0%
VERACYTE INC	-0.3%	-25.6%
BWX TECHNOLOGIES INC	-0.3%	-11.6%
BRIGHT HORIZONS FAMILY SOLUTIONS INC	-0.2%	-14.2%
PURE STORAGE INC	-0.1%	-9.3%
NEW FORTRESS ENERGY INC	-0.1%	-17.3%
LIGAND PHARMACEUTICALS INC	-0.1%	-13.9%
VIRTU FINANCIAL INC	-0.1%	-10.3%
BUILDERS FIRSTSOURCE INC	-0.1%	-8.0%
CREE INC.	-0.1%	-9.4%

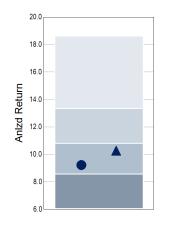
			Equi	ty Sector Attributior	1			
	Total	Selection	Attribution Effects Allocation	Interaction	F	Returns	Secto	or Weights
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	-0.1%	0.0%	0.3%	-0.4%	2.3%	22.1%	2.1%	0.1%
Materials	0.2%	0.2%	-0.1%	0.1%	5.2%	0.1%	4.2%	3.1%
Industrials	0.0%	0.0%	0.0%	0.0%	4.2%	3.9%	15.7%	13.5%
Consumer Discretionary	-0.6%	-0.7%	0.0%	0.1%	0.1%	5.4%	12.0%	13.2%
Consumer Staples	0.4%	0.5%	0.0%	-0.1%	18.8%	3.1%	2.1%	3.0%
Health Care	-0.5%	-0.6%	0.0%	0.0%	2.5%	4.4%	28.0%	28.7%
Financials	-0.1%	-0.1%	0.0%	0.0%	3.2%	6.4%	4.5%	3.9%
Information Technology	-0.7%	-0.6%	-0.2%	0.1%	7.8%	9.9%	24.4%	28.5%
Communication Services	-0.1%	0.0%	0.0%	0.0%	4.1%	5.4%	3.7%	2.4%
Utilities	0.0%		0.0%			1.4%	0.0%	1.0%
Real Estate	0.1%	0.2%	0.0%	-0.1%	15.7%	7.9%	1.1%	2.6%
Cash	-0.1%	0.0%	-0.1%	0.0%	0.0%		2.1%	0.0%
Portfolio	-1.6%	= -1.2%	+ 0.0%	+ -0.4%	4.4%	6.1%	100.0%	100.0%

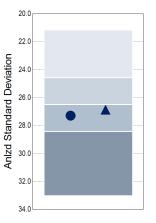


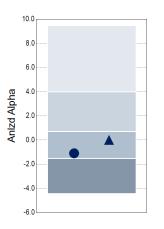
### Howard County Retirement Plans WILLIAM BLAIR S/C VALUE I

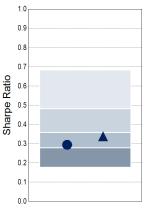


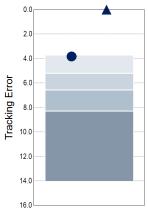


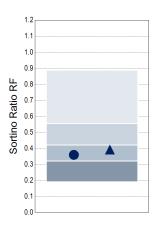






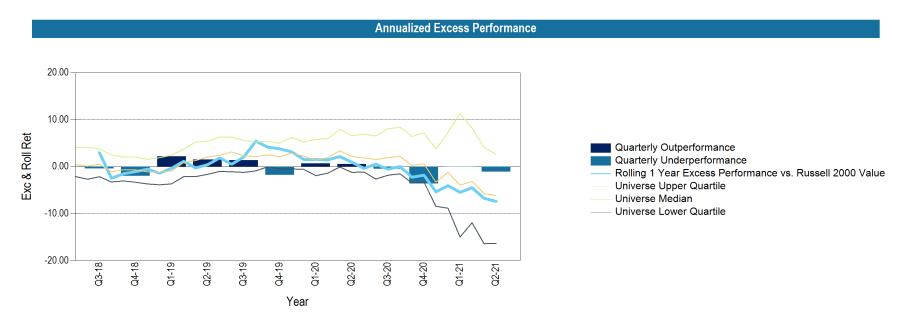








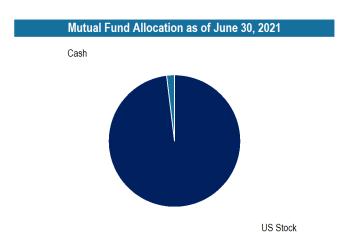
# Howard County Retirement Plans WILLIAM BLAIR S/C VALUE I







# Howard County Retirement Plans WILLIAM BLAIR S/C VALUE I



Portfolio Fund Information as o	f June 30, 2021
Ticker	ICSCX
Morningstar Category	Small Value
Average Market Cap (\$mm)	3,805.0
Net Assets (\$mm)	2,015.7
% Assets in Top 10 Holdings	18.3
Total Number of Holdings	86
Manager Name	William V. Heaphy
Manager Tenure	22
Expense Ratio	0.9%
Closed to New Investors	No

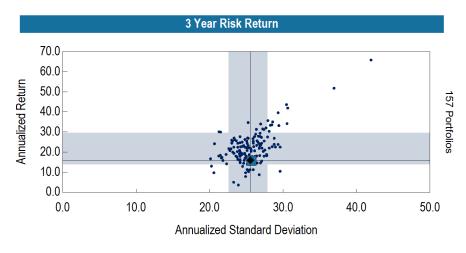
Fund Characteristics as of June 30, 2021	
Sharpe Ratio (3 Year)	0.3
Average Market Cap (\$mm)	3,805.0
Price/Earnings	17.5
Price/Book	1.9
Price/Sales	2.1
Price/Cash Flow	12.2
Dividend Yield	1.6
Number of Equity Holdings	85
R-Squared (3 Year)	1.0
Alpha (3 Year)	-0.1%

Top Holdings as of June 30, 2021	
WESTERN ALLIANCE BANCORP	2.1%
BRADY CORP CLASS A	2.0%
DECKERS OUTDOOR CORP	2.0%
HANCOCK WHITNEY CORP	1.9%
CONMED CORP	1.8%
WATTS WATER TECHNOLOGIES INC A	1.8%
SELECTIVE INSURANCE GROUP INC	1.8%
DARLING INGREDIENTS INC	1.6%
HOME BANCSHARES INC	1.6%
INTEGER HOLDINGS CORP	1.6%

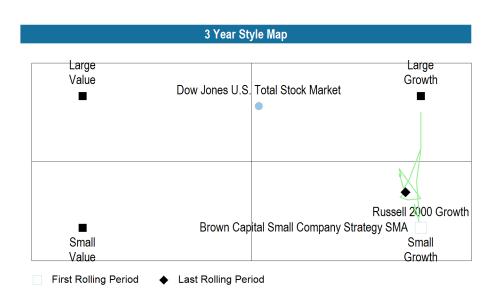
Sector Allocation as of June 30, 2021	
BASIC MATERIALS	3.8%
COMMUNICATION SERVICES	2.2%
CONSUMER CYCLICAL	9.6%
CONSUMER DEFENSIVE	6.1%
ENERGY	5.7%
FINANCIAL SERVICES	28.4%
HEALTHCARE	6.4%
INDUSTRIALS	20.7%
REAL ESTATE	8.4%
TECHNOLOGY	4.5%
UTILITIES	4.2%

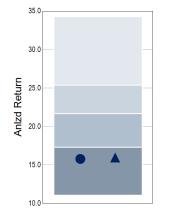


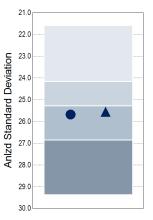
#### **BROWN CAPITAL SMALL COMPANY STRATEGY SMA**

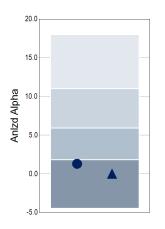


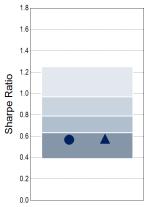
- Brown Capital Small Company Strategy SMA
- Russell 2000 Growth
- 68% Confidence Interval
- eV US Small Cap Growth Equity Gross

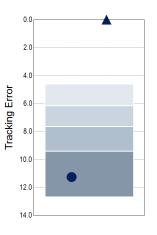


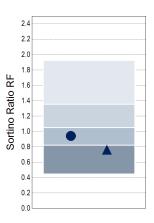






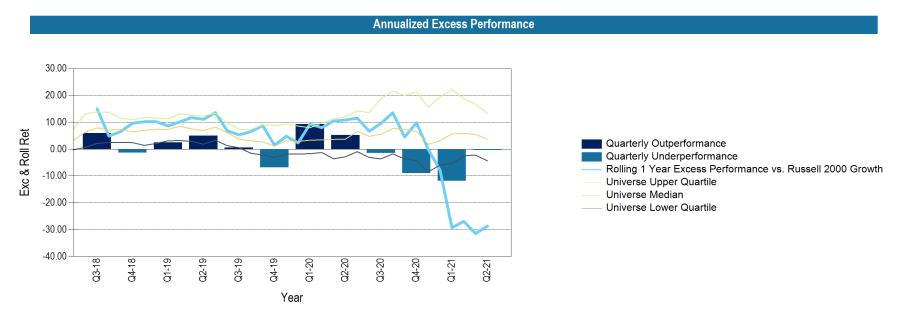








#### **BROWN CAPITAL SMALL COMPANY STRATEGY SMA**







# Howard County Retirement Plans BROWN CAPITAL SMALL COMPANY STRATEGY SMA

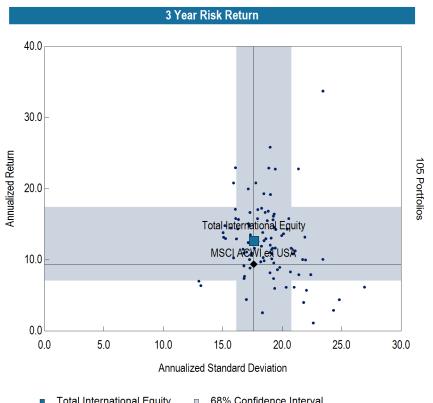
Top Ten Holdings	
VEEVA SYSTEMS INC	4.9%
COGNEX CORP	4.8%
ALARM.COM HOLDINGS INC	4.6%
PAYCOM SOFTWARE INC	4.1%
MANHATTAN ASSOCIATES INC	4.1%
TYLER TECHNOLOGIES INC	4.0%
CASH - USD	4.0%
ABIOMED INC	3.8%
GLAUKOS CORP	3.8%
NEOGEN CORP	3.8%

Top Positive Contributors					
	Relative				
	Contribution %	Return %			
VEEVA SYSTEMS INC	0.8%	19.0%			
MANHATTAN ASSOCIATES INC	0.8%	23.4%			
DATADOG INC	0.6%	24.9%			
BIO-TECHNE CORP	0.5%	18.0%			
INOGEN INC	0.4%	24.1%			
SMARTSHEET INC	0.4%	13.1%			
GUIDEWIRE SOFTWARE INC	0.3%	10.9%			
TYLER TECHNOLOGIES INC	0.3%	6.6%			
ORTHOPEDIATRICS CORP	0.2%	29.6%			
IRONWOOD PHARMACEUTICALS INC	0.2%	15.1%			

Top Negative Contr	ibutors Relative	
	Contribution %	Return %
IRHYTHM TECHNOLOGIES INC	-1.2%	-52.2%
PROTO LABS INC	-0.7%	-24.6%
NEXTGEN HEALTHCARE INC	-0.1%	-8.3%
VERICEL CORP	-0.1%	-5.5%
ABIOMED INC	-0.1%	-2.1%
ALARM.COM HOLDINGS INC	-0.1%	-1.9%
PAYCOM SOFTWARE INC	-0.1%	-1.8%
ANAPLAN INC	0.0%	-1.0%
APPFOLIO INC	0.0%	-0.1%
ACI WORLDWIDE INC	0.0%	-2.4%

			Equi	ty Sector Attribution	1			
	Attribution Effects					leturns	Sect	or Weights
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.2%	-0.2%	3.6%	23.8%	1.4%	0.2%
Materials	0.0%	0.0%	0.0%	0.0%	4.7%	2.8%	1.1%	2.6%
Industrials	-0.2%	-3.6%	0.5%	2.8%	-24.6%	-0.8%	3.2%	14.9%
Consumer Discretionary	-0.2%		-0.2%			5.3%	0.0%	14.9%
Consumer Staples	-0.1%		-0.1%			6.9%	0.0%	3.1%
Health Care	0.2%	0.2%	-0.1%	0.0%	3.3%	2.7%	41.0%	33.2%
Financials	-0.1%		-0.1%			6.7%	0.0%	3.9%
Information Technology	0.4%	-0.1%	0.7%	-0.2%	5.6%	6.2%	49.9%	19.9%
Communication Services	-0.1%		-0.1%	-		6.9%	0.0%	2.2%
Utilities	0.1%		0.1%			0.4%	0.0%	1.5%
Real Estate	-0.1%		-0.1%	-		5.5%	0.0%	3.5%
Cash	-0.1%	0.0%	-0.1%	0.0%	0.0%		3.3%	0.0%
Portfolio	-0.3%	= -3.5%	+ 0.8%	+ 2.4%	3.5%	3.8%	100.0%	100.0%





- Total International Equity
- 68% Confidence Interval
- MSCI ACWI ex USA
- eV ACWI ex-US All Cap Equity Gross

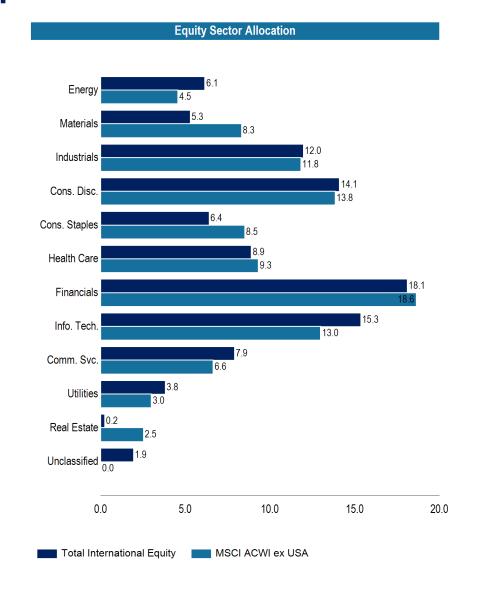




Characteristics		
	Portfolio	MSCI ACWI ex USA
Number of Holdings	224	2,344
Weighted Avg. Market Cap. (\$B)	81.9	105.9
Median Market Cap. (\$B)	26.2	10.4
Price To Earnings	16.6	19.1
Price To Book	2.7	2.7
Price To Sales	1.3	1.6
Return on Equity (%)	11.8	11.7
Yield (%)	2.8	2.4
Beta	1.0	1.0
R-Squared	1.0	1.0

	Portfolio	Index
	Q2-21	Q2-21
Region Weighting		
Americas	8.78	9.72
Europe	41.63	41.00
Asia/Pacific	47.66	45.78
Other	1.93	3.50







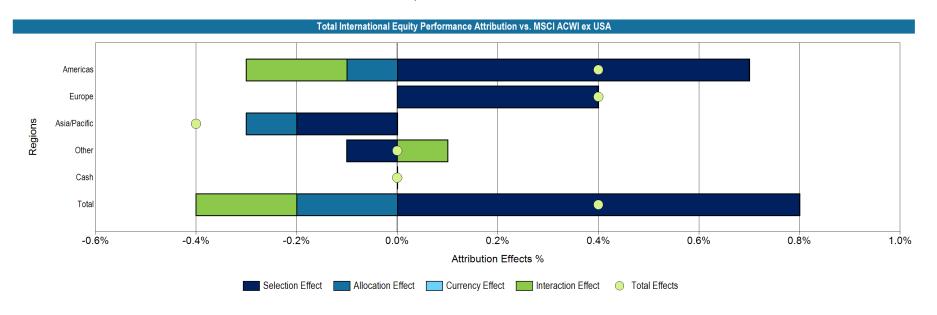
Top Ten Holdings	
TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	2.1%
ASML HOLDING NV	2.0%
SAMSUNG ELECTRONICS CO LTD	1.6%
UNITED OVERSEAS BANK LTD	1.5%
PETROLEO BRASILEIRO S.A PETROBRAS	1.2%
CASH - USD	1.2%
METTLER-TOLEDO INTERNATIONAL INC	1.2%
ZALANDO SE	1.1%
SANOFI	1.1%
WH GROUP LTD	1.1%

Top Positive Contributors					
	Relative Contribution	Return %			
	%	Retuiii /0			
PETROLEO BRASILEIRO S.A PETROBRAS	0.3%	49.3%			
NIBE INDUSTRIER AB, MARKARYD	0.2%	36.2%			
ZALANDO SE	0.2%	23.1%			
FUJIFILM HOLDINGS CORP	0.2%	25.0%			
METTLER-TOLEDO INTERNATIONAL INC	0.2%	19.9%			
TATA STEEL LTD	0.2%	44.6%			
BANCO DO BRASIL ON	0.1%	21.0%			
ASML HOLDING NV	0.1%	13.5%			
ALROSA PJSC	0.1%	31.3%			
COMPAGNIE DE SAINT GOBAIN SA	0.1%	14.1%			

Top Negative Cont	ributors	
	Relative	
	Contribution %	Return %
TRAINLINE PLC	-0.1%	-35.9%
NEW ORIENTAL EDUCATION & TECHNOLOGY GROUP INC	-0.1%	-41.5%
HOMESERVE PLC	-0.1%	-20.2%
SEKISUI CHEMICAL CO LTD	-0.1%	-10.9%
KAKAO CORP	-0.1%	63.2%
PING AN INSURANCE GROUP	-0.1%	-16.1%
CATCHER CO LTD	-0.1%	-12.2%
ASOS PLC	-0.1%	-10.1%
COGNIZANT TECHNOLOGY SOLUTIONS CORP	-0.1%	-11.0%
SHANGHALMECHANICAL & ELECTRICAL		

	Equity Sector Attribution							
			Attribution Effects		Ret	urns	Secto	r Weights
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.3%	0.2%	0.0%	0.0%	13.1%	9.0%	5.6%	4.5%
Materials	0.4%	0.7%	0.0%	-0.3%	16.6%	6.5%	4.6%	8.2%
Industrials	-0.1%	-0.1%	0.0%	0.0%	3.4%	4.5%	12.6%	11.9%
Consumer Discretionary	-0.3%	-0.3%	0.0%	0.0%	2.9%	4.8%	13.7%	13.7%
Consumer Staples	-0.3%	-0.3%	0.0%	0.1%	4.5%	8.0%	7.1%	8.4%
Health Care	-0.3%	-0.2%	0.0%	0.0%	6.7%	10.1%	8.5%	8.9%
Financials	0.4%	0.3%	0.0%	0.1%	6.8%	4.5%	18.9%	18.9%
Information Technology	0.0%	0.0%	0.0%	0.0%	6.2%	6.8%	16.1%	12.6%
Communication Services	0.2%	0.2%	-0.1%	0.0%	3.8%	1.4%	8.5%	7.0%
Utilities	0.2%	0.2%	0.0%	0.0%	5.4%	0.3%	3.7%	3.2%
Real Estate	0.0%	-0.2%	0.1%	0.2%	-6.0%	2.5%	0.4%	2.6%
Cash	0.0%	0.0%	0.0%	0.0%	0.0%		0.3%	0.0%
Portfolio	0.4% =	0.4%	+ 0.0%	+ 0.1%	6.0%	5.6%	100.0%	100.0%





	Returns and Weights					Attribution Effects			
	Manager	Index	Manager	Index	Selection	Allocation	Currency	Interaction	Total
	Return	Return	Weight	Weight	Effect	Effect	Effect	Effect	Effects
Totals									
Americas	21.9%	11.5%	6.0%	9.0%	0.7%	-0.1%	0.0%	-0.2%	0.4%
Europe	9.0%	8.0%	40.0%	40.4%	0.4%	0.0%	0.0%	0.0%	0.4%
Asia/Pacific	2.0%	2.5%	52.7%	47.5%	-0.2%	-0.1%	0.0%	0.0%	-0.4%
Other	2.4%	4.1%	1.1%	3.1%	-0.1%	0.0%	0.0%	0.1%	0.0%
Cash	0.0%		0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	6.0%	5.6%	100.0%	100.0%	0.8%	-0.2%	0.0%	-0.2%	0.4%
Totals									
Developed	5.7%	5.9%	66.7%	69.2%	0.0%	0.0%	-0.2%	0.0%	-0.2%
Emerging*	6.7%	5.0%	33.0%	30.8%	0.4%	0.0%	0.2%	0.0%	0.6%
Cash	0.0%		0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



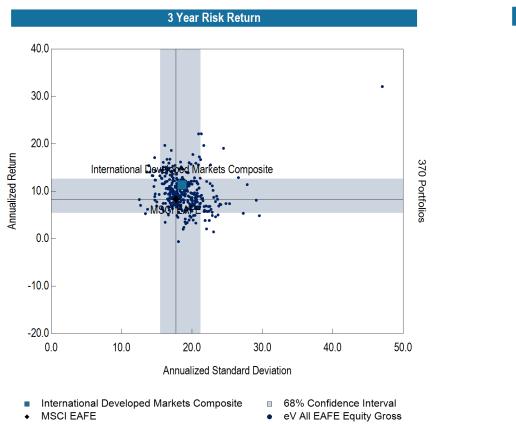
Country Allocation						
	Manager	Index	Manager	Index		
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)		
Americas						
Brazil*	3.4%	1.4%	28.9%	24.1%		
Mexico*	0.2%	0.5%	15.2%	9.0%		
United States	2.4%	0.0%	12.8%	8.8%		
Total-Americas	6.0%	9.0%	21.9%	11.5%		
Europe						
Czech Republic*	0.1%	0.0%	14.0%	14.1%		
Denmark	0.4%	1.5%	25.8%	13.2%		
Finland	0.5%	0.6%	-0.2%	11.4%		
France	5.1%	7.0%	12.4%	9.6%		
Germany	3.4%	5.9%	11.6%	5.3%		
Italy	1.7%	1.6%	-1.2%	4.1%		
Luxembourg	0.7%	0.0%	2.9%	5.6%		
Netherlands	2.6%	2.6%	9.7%	7.4%		
Poland*	1.2%	0.2%	14.2%	18.9%		
Portugal	0.5%	0.1%	10.3%	-1.4%		
Russia*	2.8%	0.9%	17.4%	14.8%		
Spain	2.4%	1.5%	11.2%	5.2%		
Sweden	4.2%	2.3%	8.4%	6.1%		
Switzerland	2.1%	5.7%	12.4%	12.1%		
United Kingdom	12.3%	8.9%	4.8%	6.1%		
Total-Europe	40.0%	40.4%	9.0%	8.0%		

Country Allocation							
	Manager	Index	Manager	Index			
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)			
AsiaPacific							
Australia	1.4%	4.4%	15.2%	6.8%			
China*	9.4%	11.7%	-1.0%	2.5%			
Hong Kong	6.2%	2.1%	3.7%	2.1%			
India*	5.1%	3.0%	9.0%	7.4%			
Indonesia*	0.4%	0.4%	-2.7%	-5.3%			
Japan	17.8%	15.5%	0.4%	-0.3%			
Korea*	5.4%	4.1%	3.2%	4.2%			
New Zealand	0.8%	0.2%	-1.1%	-4.9%			
Singapore	2.2%	0.7%	3.0%	0.4%			
Taiwan*	3.4%	4.3%	1.3%	6.0%			
Thailand*	0.6%	0.6%	-12.0%	-5.1%			
Total-AsiaPacific	52.7%	47.5%	2.0%	2.5%			
Other							
South Africa*	1.0%	1.2%	0.5%	-1.3%			
Turkey*	0.1%	0.1%	20.4%	-0.2%			
Total-Other	1.1%	3.1%	2.4%	4.1%			
Totals							
Developed	66.7%	69.2%	5.7%	5.9%			
Emerging*	33.0%	30.8%	6.7%	5.0%			
Cash	0.3%		0.0%				

Country\* = Emerging Markets



# Howard County Retirement Plans INTERNATIONAL DEVELOPED MARKETS COMPOSITE





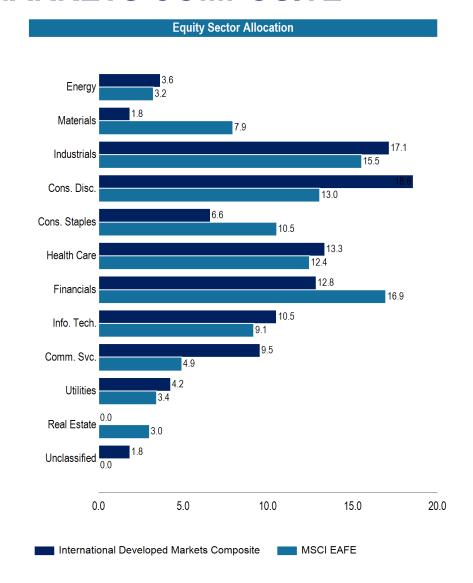


#### INTERNATIONAL DEVELOPED MARKETS COMPOSITE

Characteristics						
	Portfolio	MSCI EAFE				
Number of Holdings	118	843				
Weighted Avg. Market Cap. (\$B)	61.0	80.2				
Median Market Cap. (\$B)	26.2	14.3				
Price To Earnings	22.2	21.1				
Price To Book	2.8	2.7				
Price To Sales	1.6	1.5				
Return on Equity (%)	10.9	11.0				
Yield (%)	2.4	2.5				
Beta	1.0	1.0				
R-Squared	1.0	1.0				

Region Weighting	Portfolio Q2-21	Index Q2-21
Americas	3.45	0.26
Europe	57.56	64.14
Asia/Pacific	38.26	34.74
Other	0.73	0.86







#### INTERNATIONAL DEVELOPED MARKETS COMPOSITE

Top Ten Holdings	
UNITED OVERSEAS BANK LTD	2.3%
ASML HOLDING NV	2.0%
METTLER-TOLEDO INTERNATIONAL INC	1.8%
ZALANDO SE	1.8%
SANOFI	1.8%
GLAXOSMITHKLINE PLC	1.8%
FUJIFILM HOLDINGS CORP	1.7%
CK HUTCHISON HOLDINGS LTD	1.7%
BANCO SANTANDER SA	1.6%
LLOYDS BANKING GROUP PLC	1.6%

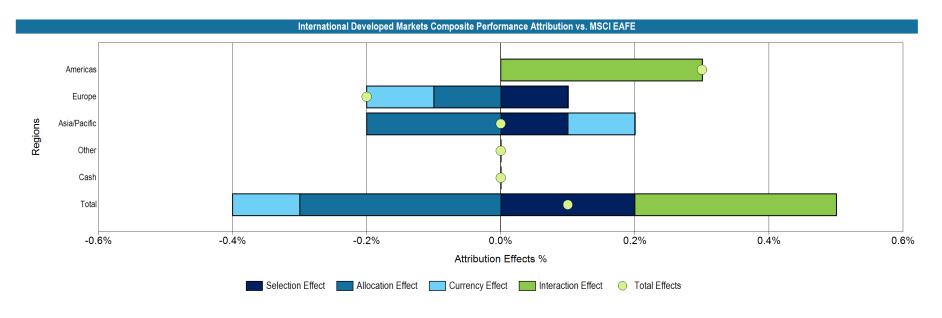
Top Positive Contributors						
	Relative					
	Contribution %	Return %				
NIBE INDUSTRIER AB, MARKARYD	0.4%	36.2%				
ZALANDO SE	0.3%	23.1%				
FUJIFILM HOLDINGS CORP	0.3%	25.0%				
METTLER-TOLEDO INTERNATIONAL INC	0.3%	19.9%				
COMPAGNIE DE SAINT GOBAIN SA	0.2%	14.1%				
KINGFISHER PLC	0.2%	17.5%				
FUJITSU LTD	0.2%	29.6%				
CIE FINANCIERE RICHEMONT AG, ZUG	0.2%	25.8%				
BANCO SANTANDER SA	0.2%	13.2%				
ISS A/S	0.2%	25.8%				

Top Negative Contributors							
Relative							
Contribution %	Return %						
-0.2%	-35.9%						
-0.1%	-20.2%						
-0.1%	-10.9%						
-0.1%	-10.1%						
-0.1%	-7.0%						
-0.1%	-24.9%						
-0.1%	26.7%						
-0.1%	-9.0%						
-0.1%	-13.4%						
-0.1%	18.4%						
	Relative Contribution %  -0.2% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1% -0.1%						

	Equity Sector Attribution							
	Attribution Effects  Total Selection Allocation Interaction				Returns	Sect	Sector Weights	
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	4.2%	3.2%	4.0%	3.3%
Materials	-0.1%	-0.4%	0.0%	0.3%	0.3%	5.4%	2.1%	8.0%
Industrials	0.1%	0.1%	0.0%	0.1%	4.5%	4.0%	18.3%	15.8%
Consumer Discretionary	0.1%	0.0%	0.0%	0.0%	5.8%	5.5%	17.5%	12.6%
Consumer Staples	-0.5%	-0.5%	-0.1%	0.1%	3.1%	8.8%	6.8%	10.3%
Health Care	-0.3%	-0.3%	0.0%	-0.1%	6.6%	9.5%	12.5%	12.0%
Financials	0.4%	0.4%	0.1%	-0.1%	6.0%	3.5%	13.0%	17.5%
Information Technology	0.2%	0.1%	0.1%	0.0%	9.9%	8.4%	11.1%	8.7%
Communication Services	0.1%	0.2%	-0.2%	0.2%	3.9%	0.3%	10.3%	5.2%
Utilities	0.1%	0.1%	0.0%	0.0%	1.2%	-0.9%	4.1%	3.7%
Real Estate	0.0%		0.0%			5.4%	0.0%	3.1%
Cash	0.0%	0.0%	0.0%	0.0%	0.0%		0.4%	0.0%
Portfolio	0.0%	= -0.3%	+ -0.3%	+ 0.6%	5.4%	5.4%	100.0%	100.0%



#### INTERNATIONAL DEVELOPED MARKETS COMPOSITE



	Returns and Weights					Attribution Effects			
	Manager	Index	Manager	Index	Selection	Allocation	Currency	Interaction	Total
	Return	Return	Weight	Weight	Effect	Effect	Effect	Effect	Effects
Totals									
Americas	19.9%		1.7%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%
Europe	7.9%	7.8%	55.5%	62.8%	0.1%	-0.1%	-0.1%	0.0%	-0.2%
Asia/Pacific	1.8%	1.2%	42.4%	36.6%	0.1%	-0.2%	0.1%	0.0%	0.0%
Other		5.2%	0.0%	0.6%		0.0%	0.0%		0.0%
Cash	0.0%		0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	5.5%	5.4%	100.0%	100.0%	0.2%	-0.3%	-0.1%	0.3%	0.1%
Totals									
Developed	5.5%	5.4%	98.1%	100.0%	0.2%	0.0%	-0.1%	0.0%	0.1%
Emerging*	3.9%		1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Cash	0.0%		0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



## INTERNATIONAL DEVELOPED MARKETS COMPOSITE

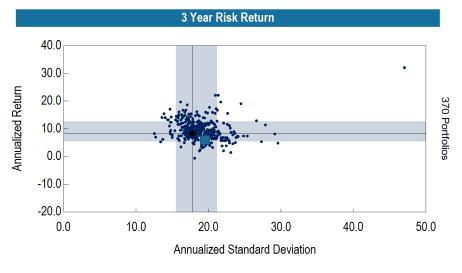
Country Allocation					
	Manager	Index	Manager	Index	
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)	
Americas					
United States	1.7%	0.0%	19.9%	8.8%	
Total-Americas	1.7%	0.0%	19.9%		
Europe					
Denmark	0.6%	2.4%	25.8%	13.2%	
Finland	0.9%	1.0%	-0.2%	11.4%	
France	8.1%	11.2%	12.4%	9.6%	
Germany	5.5%	9.5%	11.6%	5.3%	
Italy	2.7%	2.5%	-1.2%	3.3%	
Luxembourg	1.1%	0.0%	2.9%	5.4%	
Netherlands	2.9%	4.2%	8.2%	7.4%	
Portugal	0.7%	0.2%	10.3%	-1.4%	
Spain	3.4%	2.4%	9.8%	5.2%	
Sweden	6.7%	3.6%	8.4%	6.1%	
Switzerland	3.4%	9.2%	12.4%	12.1%	
United Kingdom	19.4%	14.2%	4.7%	6.1%	
Total-Europe	55.5%	62.8%	7.9%	7.8%	

Country Allocation					
	Manager	Index	Manager	Index	
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)	
AsiaPacific					
Australia	2.2%	7.0%	15.2%	6.8%	
Hong Kong	5.8%	3.3%	4.4%	2.1%	
Japan	28.4%	24.9%	0.4%	-0.3%	
New Zealand	1.3%	0.3%	-1.1%	-4.9%	
Singapore	3.1%	1.1%	0.2%	0.4%	
Taiwan*	1.5%	0.0%	3.9%	6.0%	
Total-AsiaPacific	42.4%	36.6%	1.8%	1.2%	
Totals					
Developed	98.1%	100.0%	5.5%	5.4%	
Emerging*	1.5%	0.0%	3.9%		
Cash	0.4%		0.0%		

Country\* = Emerging Markets

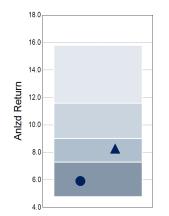


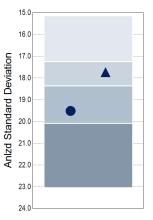
## MONDRIAN INTERNATIONAL EQUITY FUND, L.P.

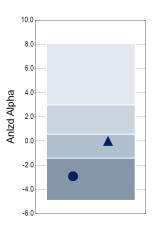


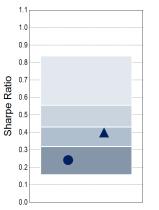
- Mondrian International Equity Fund, L.P.
- 68% Confidence Interval
- MSCI EAFE
- eV All EAFE Equity Gross

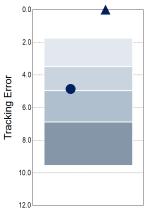


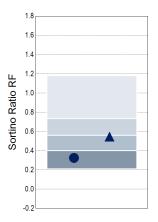














## MONDRIAN INTERNATIONAL EQUITY FUND, L.P.







# Howard County Retirement Plans MONDRIAN INTERNATIONAL EQUITY FUND, L.P.

Top Ten Holdings	
SANOFI	3.5%
GLAXOSMITHKLINE PLC	3.4%
FUJIFILM HOLDINGS CORP	3.3%
CK HUTCHISON HOLDINGS LTD	3.3%
BANCO SANTANDER SA	3.2%
LLOYDS BANKING GROUP PLC	3.2%
HONDA MOTOR CO LTD	3.1%
UNITED OVERSEAS BANK LTD	3.1%
SCOTTISH AND SOUTHERN ENERGY PLC	3.0%
ROYAL DUTCH SHELL PLC	2.9%

Top Positive Contributors					
	Relative				
	Contribution %	Return %			
FUJIFILM HOLDINGS CORP	0.7%	25.0%			
COMPAGNIE DE SAINT GOBAIN SA	0.4%	14.1%			
KINGFISHER PLC	0.4%	17.5%			
FUJITSU LTD	0.4%	29.6%			
BANCO SANTANDER SA	0.3%	13.2%			
LLOYDS BANKING GROUP PLC	0.3%	11.5%			
ISS A/S	0.3%	25.8%			
WH GROUP LTD	0.3%	12.9%			
GLAXOSMITHKLINE PLC	0.3%	12.0%			
SANOFI	0.3%	10.0%			

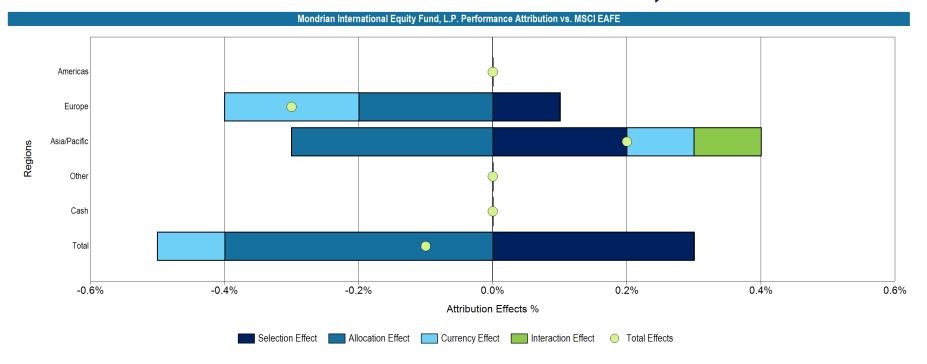
Top Negative Contributors					
	Relative				
	Contribution %	Return %			
SEKISUI CHEMICAL CO LTD	-0.2%	-10.9%			
TAKEDA PHARMACEUTICAL CO LTD	-0.2%	-7.0%			
COCA-COLA BOTTLERS JAPAN HOLDINGS INC	-0.1%	-9.0%			
ENEL ENTE NAZIONALE PER L'ENERGIA ELETTRICA SPA, ROMA	-0.1%	-6.8%			
SONY GROUP CORPORATION	-0.1%	-7.0%			
MITSUBISHI ELECTRIC CORP	-0.1%	-4.7%			
HITACHI LTD	-0.1%	26.7%			
KYOCERA CORP	-0.1%	-2.6%			
TOYOTA INDUSTRIES CORP	-0.1%	-2.9%			

Equity Sector Attribution								
			Attribution Effects		F	Returns	Sect	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.1%	0.1%	-0.1%	0.1%	5.4%	3.2%	7.3%	3.3%
Materials	-0.2%	-0.6%	0.0%	0.4%	-1.5%	5.4%	2.7%	8.0%
Industrials	0.3%	0.3%	0.0%	0.0%	5.8%	4.0%	15.7%	15.8%
Consumer Discretionary	-0.4%	-0.3%	0.0%	-0.1%	2.1%	5.5%	12.3%	12.6%
Consumer Staples	-0.5%	-0.5%	-0.1%	0.1%	3.2%	8.8%	6.0%	10.3%
Health Care	-0.6%	-0.5%	0.1%	-0.1%	4.7%	9.5%	13.9%	12.0%
Financials	0.6%	0.7%	0.1%	-0.1%	7.6%	3.5%	14.5%	17.5%
Information Technology	0.4%	0.3%	0.1%	0.1%	11.9%	8.4%	10.4%	8.7%
Communication Services	0.1%	0.2%	-0.1%	0.1%	3.6%	0.3%	8.4%	5.2%
Utilities	-0.1%	0.1%	-0.3%	0.1%	1.2%	-0.9%	7.9%	3.7%
Real Estate	0.0%		0.0%	-		5.4%	0.0%	3.1%
Cash	0.0%	0.0%	0.0%	0.0%	0.0%		0.8%	0.0%
Portfolio	-0.3%	= -0.4%	+ -0.5%	+ 0.7%	5.1%	5.4%	100.0%	100.0%

Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of the period portfolio. Results may differ from the flash report.



## MONDRIAN INTERNATIONAL EQUITY FUND, L.P.



		Returns and Wei	ghts			Attril	oution Effects		
	Manager	Index	Manager	Index	Selection	Allocation	Currency	Interaction	Total
	Return	Return	Weight	Weight	Effect	Effect	Effect	Effect	Effects
Totals									
Americas	-		0.0%	0.0%	<b></b>	0.0%	0.0%		0.0%
Europe	7.7%	7.8%	54.5%	62.8%	0.1%	-0.2%	-0.2%	0.0%	-0.3%
Asia/Pacific	2.3%	1.2%	44.7%	36.6%	0.2%	-0.3%	0.1%	0.1%	0.2%
Other		5.2%	0.0%	0.6%		0.0%	0.0%		0.0%
Cash	0.0%		0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	5.2%	5.4%	100.0%	100.0%	0.3%	-0.4%	-0.1%	0.0%	-0.1%
Totals									
Developed	5.3%	5.4%	96.2%	100.0%	0.1%	0.0%	-0.1%	0.0%	-0.1%
Emerging*	3.9%		2.9%	0.0%	0.0%	0.0%	0.1%	-0.1%	0.0%
Cash	0.0%		0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



## MONDRIAN INTERNATIONAL EQUITY FUND, L.P.

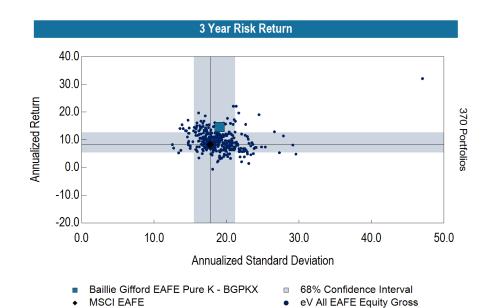
Country Allocation					
	Manager	Index	Manager	Index	
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)	
Europe					
Denmark	1.2%	2.4%	25.8%	13.2%	
France	9.7%	11.2%	12.0%	9.6%	
Germany	2.7%	9.5%	-1.5%	5.3%	
Italy	5.3%	2.5%	-1.2%	3.3%	
Spain	4.7%	2.4%	10.5%	5.2%	
Sweden	2.4%	3.6%	5.2%	6.1%	
Switzerland	4.7%	9.2%	6.8%	12.1%	
United Kingdom	23.7%	14.2%	8.0%	6.1%	
Total-Europe	54.5%	62.8%	7.7%	7.8%	

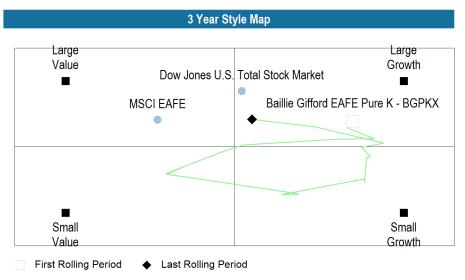
Country Allocation					
	Manager	Index	Manager	Index	
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)	
AsiaPacific					
Australia	0.9%	7.0%	10.5%	6.8%	
Hong Kong	6.2%	3.3%	5.4%	2.1%	
Japan	30.2%	24.9%	1.6%	-0.3%	
Singapore	4.4%	1.1%	-0.2%	0.4%	
Taiwan*	2.9%	0.0%	3.9%	6.0%	
Total-AsiaPacific	44.7%	36.6%	2.3%	1.2%	
Totals					
Developed	96.2%	100.0%	5.3%	5.4%	
Emerging*	2.9%	0.0%	3.9%		
Cash	0.8%		0.0%		

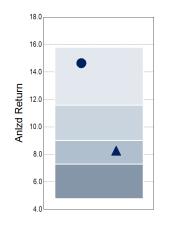
Country\* = Emerging Markets

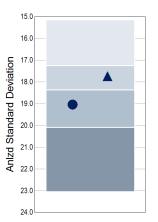


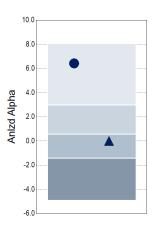
### **BAILLIE GIFFORD EAFE PURE K - BGPKX**

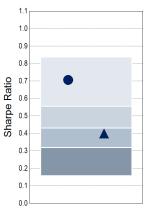


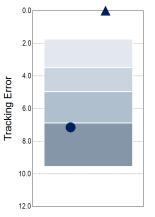


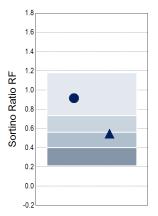






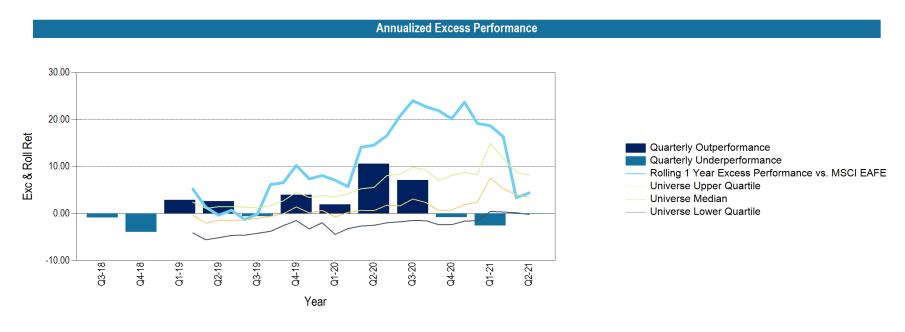


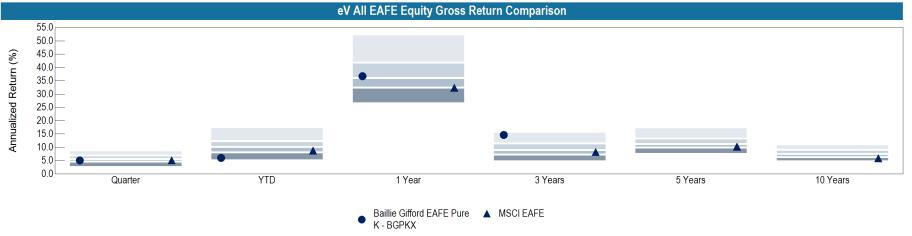






### **BAILLIE GIFFORD EAFE PURE K - BGPKX**







## **BAILLIE GIFFORD EAFE PURE K - BGPKX**

Top Ten Holdings	
ASML HOLDING NV	4.1%
METTLER-TOLEDO INTERNATIONAL INC	3.8%
ZALANDO SE	3.7%
ATLAS COPCO AB	2.9%
AIA GROUP LTD	2.8%
AVANZA BANK HOLDING AB	2.8%
NIBE INDUSTRIER AB, MARKARYD	2.7%
SHIMANO INC	2.4%
SARTORIUS SHS.PREF.	2.4%
CIE FINANCIERE RICHEMONT AG, ZUG	2.3%

Top Positive Contributors					
	Relative				
	Contribution %	Return %			
NIBE INDUSTRIER AB, MARKARYD	0.8%	36.2%			
ZALANDO SE	0.7%	23.1%			
METTLER-TOLEDO INTERNATIONAL INC	0.7%	19.9%			
CIE FINANCIERE RICHEMONT AG, ZUG	0.4%	25.8%			
ASML HOLDING NV	0.4%	13.5%			
COCHLEAR LTD	0.3%	17.5%			
KERING	0.3%	27.5%			
AUTO TRADER GROUP PLC	0.3%	14.5%			
RIGHTMOVE PLC	0.2%	12.6%			
SEEK LTD	0.2%	15.3%			

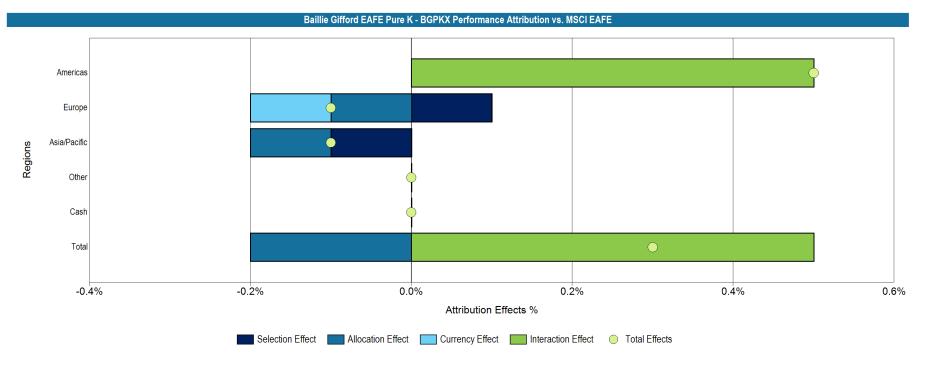
Top Negative Contr		
	Relative Contribution	Datum 0/
	%	Return %
TRAINLINE PLC	-0.4%	-35.9%
HOMESERVE PLC	-0.2%	-20.2%
SOFTBANK GROUP CORP	-0.2%	-16.9%
ASOS PLC	-0.2%	-10.1%
PIGEON CORP	-0.2%	-24.9%
RYMAN HEALTHCARE LTD	-0.1%	-13.4%
PROSUS ORD	-0.1%	-12.1%
UBI SOFT ENTERTAINMENT SA	-0.1%	-8.1%
OLYMPUS CORP	-0.1%	-3.9%
NIDEC CORP	-0.1%	-4.5%

			Equi	ty Sector Attribution	1			
			Attribution Effects		F	Returns	Sect	or Weights
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	-0.7%	0.1%	0.6%	-18.6%	3.2%	0.4%	3.3%
Materials	-0.1%	-0.1%	0.0%	0.1%	3.9%	5.4%	1.5%	8.0%
Industrials	-0.1%	-0.1%	-0.1%	0.0%	3.5%	4.0%	21.1%	15.8%
Consumer Discretionary	0.6%	0.3%	0.0%	0.3%	7.9%	5.5%	22.9%	12.6%
Consumer Staples	-0.5%	-0.5%	-0.1%	0.1%	3.1%	8.8%	7.6%	10.3%
Health Care	-0.1%	0.1%	0.0%	-0.2%	9.1%	9.5%	10.9%	12.0%
Financials	0.1%	0.0%	0.1%	0.0%	3.9%	3.5%	11.4%	17.5%
Information Technology	0.1%	0.0%	0.1%	0.0%	8.0%	8.4%	11.8%	8.7%
Communication Services	0.1%	0.2%	-0.3%	0.3%	4.0%	0.3%	12.3%	5.2%
Utilities	0.2%		0.2%	-		-0.9%	0.0%	3.7%
Real Estate	0.0%	-	0.0%	-		5.4%	0.0%	3.1%
Cash	0.0%			-			0.0%	0.0%
Portfolio	0.3%	= -0.9%	+ -0.1%	+ 1.3%	5.6%	5.4%	100.0%	100.0%

Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of the period portfolio. Results may differ from the flash report.



## **BAILLIE GIFFORD EAFE PURE K - BGPKX**



	Returns and Weights				Attribution Effects				
	Manager	Index	Manager	Index	Selection	Allocation	Currency	Interaction	Total
	Return	Return	Weight	Weight	Effect	Effect	Effect	Effect	Effects
Totals									
Americas	19.9%		3.6%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%
Europe	8.0%	7.8%	56.5%	62.8%	0.1%	-0.1%	-0.1%	0.0%	-0.1%
Asia/Pacific	1.2%	1.2%	39.9%	36.6%	-0.1%	-0.1%	0.0%	0.0%	-0.1%
Other		5.2%	0.0%	0.6%		0.0%	0.0%		0.0%
Cash			0.0%	0.0%		0.0%	0.0%		0.0%
Total	5.7%	5.4%	100.0%	100.0%	0.0%	-0.2%	0.0%	0.5%	0.3%
Totals									
Developed	5.7%	5.4%	100.0%	100.0%	0.3%	0.0%	0.0%	0.0%	0.3%



## **BAILLIE GIFFORD EAFE PURE K - BGPKX**

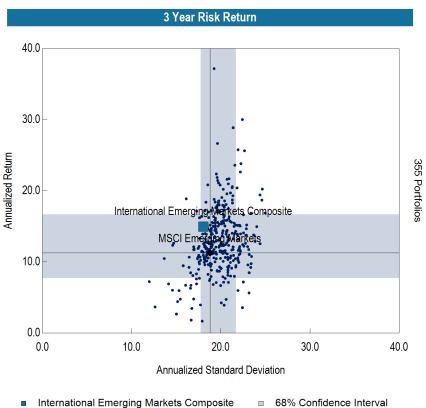
Country Allocation							
	Manager	Index	Manager	Index			
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)			
Americas							
United States	3.6%	0.0%	19.9%	8.8%			
Total-Americas	3.6%	0.0%	19.9%				
Europe							
Finland	1.8%	1.0%	-0.2%	11.4%			
France	6.5%	11.2%	13.0%	9.6%			
Germany	8.4%	9.5%	16.1%	5.3%			
Luxembourg	2.2%	0.0%	2.9%	5.4%			
Netherlands	5.9%	4.2%	8.2%	7.4%			
Portugal	1.5%	0.2%	10.3%	-1.4%			
Spain	2.0%	2.4%	8.1%	5.2%			
Sweden	11.3%	3.6%	9.1%	6.1%			
Switzerland	2.1%	9.2%	25.8%	12.1%			
United Kingdom	15.0%	14.2%	-0.7%	6.1%			
Total-Europe	56.5%	62.8%	8.0%	7.8%			

Country Allocation								
	Manager	Index	Manager	Index				
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)				
AsiaPacific								
Australia	3.6%	7.0%	16.6%	6.8%				
Hong Kong	5.4%	3.3%	3.1%	2.1%				
Japan	26.5%	24.9%	-1.1%	-0.3%				
New Zealand	2.6%	0.3%	-1.1%	-4.9%				
Singapore	1.8%	1.1%	1.5%	0.4%				
Total-AsiaPacific	39.9%	36.6%	1.2%	1.2%				
Totals								
Developed	100.0%	100.0%	5.7%	5.4%				

Country\* = Emerging Markets



## **Howard County Retirement Plans** INTERNATIONAL EMERGING MARKETS COMPOSITE





MSCI Emerging Markets

- eV Emg Mkts Equity Gross

## 3 Year Style Analysis Large Large Value Growth International Emerging Markets Composite MSCI ACWI MSCI Emerging Markets Small Small Growth Value First Rolling Period ◆ Last Rolling Period

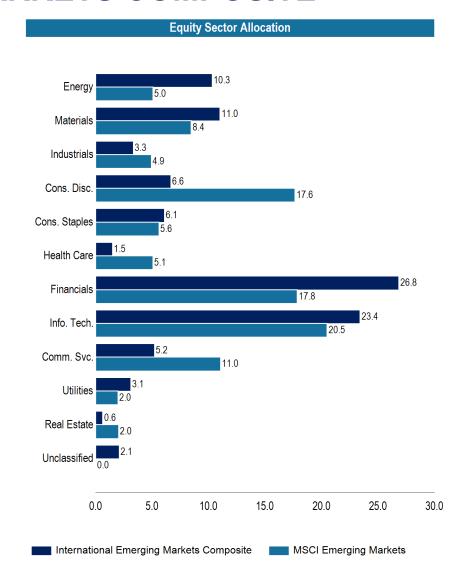


### INTERNATIONAL EMERGING MARKETS COMPOSITE

Characteristics		
	Portfolio	MSCI Emerging Markets
Number of Holdings	111	1,411
Weighted Avg. Market Cap. (\$B)	117.8	169.1
Median Market Cap. (\$B)	26.4	7.3
Price To Earnings	12.4	16.4
Price To Book	2.5	3.1
Price To Sales	1.0	1.5
Return on Equity (%)	13.3	12.5
Yield (%)	3.4	2.1
Beta	0.9	1.0
R-Squared	0.9	1.0

Region Weighting	Portfolio Q2-21	Index Q2-21
Americas	17.64	8.16
Europe	15.14	4.67
Asia/Pacific	63.29	77.68
Other	3.92	9.49







## INTERNATIONAL EMERGING MARKETS COMPOSITE

Characteristics		
	Portfolio	MSCI Emerging Markets
Number of Holdings	111	1,411
Weighted Avg. Market Cap. (\$B)	117.8	169.1
Median Market Cap. (\$B)	26.4	7.3
Price To Earnings	12.4	16.4
Price To Book	2.5	3.1
Price To Sales	1.0	1.5
Return on Equity (%)	13.3	12.5
Yield (%)	3.4	2.1
Beta	0.9	1.0
R-Squared	0.9	1.0

Top Positive Contr	ibutors	
	Relative	
	Contribution %	Return %
PETROLEO BRASILEIRO S.A PETROBRAS	0.9%	49.3%
TATA STEEL LTD	0.4%	44.6%
BANCO DO BRASIL ON	0.4%	21.0%
ALROSA PJSC	0.4%	31.3%
INFOSYS LTD	0.3%	14.4%
KUNLUN ENERGY CO LTD	0.3%	29.7%
NVIDIA CORPORATION	0.3%	49.9%
VALE SA	0.3%	32.8%
ASML HOLDING NV	0.3%	13.5%
POWSZECHNY ZAKLAD UBEZPIECZEN SA	0.2%	11.6%

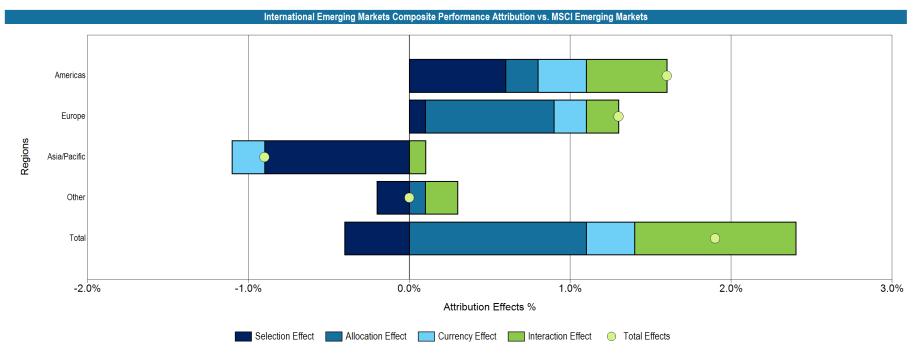
Top Negative Contributors							
	Relative						
	Contribution %	Return %					
KAKAO CORP	-0.2%	63.2%					
NEW ORIENTAL EDUCATION & TECHNOLOGY GROUP INC	-0.2%	-41.5%					
CATCHER CO LTD	-0.2%	-12.2%					
LI NING CO LTD	-0.2%	88.6%					
COGNIZANT TECHNOLOGY SOLUTIONS CORP	-0.1%	-11.0%					
SHANGHAI MECHANICAL & ELECTRICAL INDUSTRY CO LTD	-0.1%	-14.6%					
PING AN INSURANCE GROUP	-0.1%	-16.1%					
LENOVO GROUP LTD	-0.1%	-19.2%					
TAIWAN SEMICONDUCTOR MANUEACTURING COLTD	-0.1%	3.9%					

			Equit	ty Sector Attribution	1				
		Attribution Effects			R	Returns	Sect	Sector Weights	
	Total	Selection	Allocation	Interaction					
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark	
Energy	0.9%	0.4%	0.3%	0.3%	20.3%	13.4%	8.3%	4.9%	
Materials	1.3%	1.2%	0.0%	0.2%	23.0%	8.2%	8.9%	8.1%	
Industrials	-0.7%	-0.8%	-0.1%	0.2%	-7.8%	11.1%	3.0%	4.3%	
Consumer Discretionary	-0.9%	-2.1%	0.1%	1.2%	-8.4%	3.6%	7.5%	17.7%	
Consumer Staples	0.1%	0.0%	0.0%	0.1%	6.5%	5.0%	7.6%	5.6%	
Health Care	-0.4%	-0.3%	-0.3%	0.2%	8.3%	14.5%	1.9%	4.5%	
Financials	0.9%	0.5%	-0.1%	0.6%	7.4%	4.1%	28.7%	18.3%	
Information Technology	-0.1%	0.1%	0.0%	-0.1%	3.4%	3.5%	24.5%	21.0%	
Communication Services	0.3%	0.2%	0.2%	-0.2%	3.4%	1.5%	5.4%	11.5%	
Utilities	0.3%	0.2%	0.0%	0.1%	14.7%	4.1%	3.1%	2.0%	
Real Estate	0.1%	0.0%	0.1%	0.0%	-6.0%	-6.5%	1.0%	2.2%	
Cash	0.0%						0.0%	0.0%	
Portfolio	2.1%	= -0.7%	+ 0.1%	+ 2.6%	7.0%	5.0%	100.0%	100.0%	

Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of the period portfolio. Results may differ from the flash report.



### INTERNATIONAL EMERGING MARKETS COMPOSITE



	Returns and Weights					Attribution Effects			
	Manager	Index	Manager	Index	Selection	Allocation	Currency	Interaction	Total
	Return	Return	Weight	Weight	Effect	Effect	Effect	Effect	Effects
Totals									
Americas	22.4%	15.6%	13.0%	7.3%	0.6%	0.2%	0.3%	0.5%	1.6%
Europe	16.2%	15.2%	14.2%	3.9%	0.1%	0.8%	0.2%	0.2%	1.3%
Asia/Pacific	2.3%	3.6%	69.9%	80.1%	-0.9%	0.0%	-0.2%	0.1%	-0.9%
Other	2.4%	3.9%	2.8%	8.7%	-0.2%	0.1%	0.0%	0.2%	0.0%
Total	6.9%	5.0%	100.0%	100.0%	-0.4%	1.1%	0.3%	1.0%	1.9%
Totals									
Developed	7.5%		14.1%	0.0%	0.0%	0.0%	0.0%	0.5%	0.5%
Emerging*	6.8%	5.0%	85.9%	100.0%	1.4%	0.0%	0.2%	-0.2%	1.4%



## INTERNATIONAL EMERGING MARKETS COMPOSITE

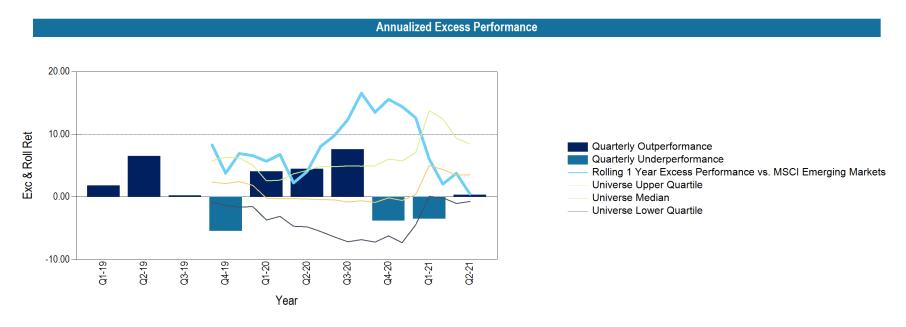
Country Allocation							
	Manager	Index	Manager	Index			
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)			
Americas							
Brazil*	9.0%	4.5%	28.9%	24.1%			
Mexico*	0.6%	1.7%	15.2%	9.0%			
United States	3.5%	0.0%	6.8%	8.8%			
Total-Americas	13.0%	7.3%	22.4%	15.6%			
Europe							
Czech Republic*	0.4%	0.1%	14.0%	14.1%			
Netherlands	2.0%	0.0%	13.5%	7.3%			
Poland*	3.2%	0.6%	14.2%	18.9%			
Russia*	7.6%	2.8%	17.4%	14.8%			
Spain	0.8%	0.0%	20.9%	5.2%			
United Kingdom	0.2%	0.0%	14.2%	6.1%			
Total-Europe	14.2%	3.9%	16.2%	15.2%			

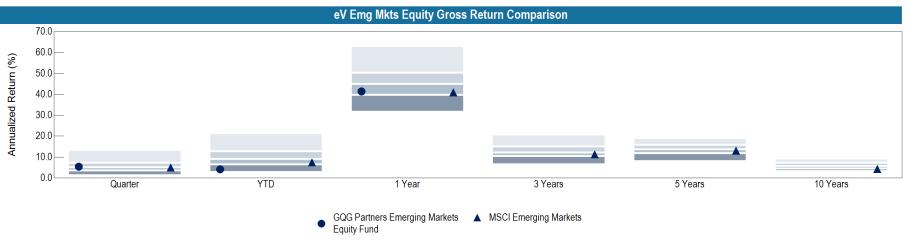
Country Allocation									
	Manager	Index	Manager	Index					
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)					
AsiaPacific									
China*	25.2%	38.0%	-1.0%	2.5%					
Hong Kong	6.9%	0.0%	2.8%	2.5%					
India*	13.7%	9.7%	9.0%	7.4%					
Indonesia*	1.0%	1.2%	-2.7%	-5.3%					
Korea*	14.4%	13.4%	3.2%	4.2%					
Singapore	0.7%	0.0%	24.9%	0.4%					
Taiwan*	6.5%	13.9%	0.3%	6.0%					
Thailand*	1.6%	1.9%	-12.0%	-5.1%					
Total-AsiaPacific	69.9%	80.1%	2.3%	3.6%					
Other									
South Africa*	2.6%	3.8%	0.5%	-1.3%					
Turkey*	0.3%	0.3%	20.4%	-0.2%					
Total-Other	2.8%	8.7%	2.4%	3.9%					
Totals									
Developed	14.1%	0.0%	7.5%						
Emerging*	85.9%	100.0%	6.8%	5.0%					

Country\* = Emerging Markets



## **GQG PARTNERS EMERGING MARKETS EQUITY FUND**







## **GQG PARTNERS EMERGING MARKETS EQUITY FUND**

Top Ten Holdings	
TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	6.6%
SAMSUNG ELECTRONICS CO LTD	5.4%
HOUSING DEVELOPMENT FINANCE CORP LTD	4.2%
INFOSYS LTD	4.1%
ASML HOLDING NV	3.9%
VALE SA	3.9%
WULIANGYE ORD A	3.6%
SBERBANK OF RUSSIA	3.5%
TENCENT HOLDINGS LTD	3.5%
RELIANCE INDUSTRIES LTD	3.1%

Top Positive Contr	ibutors	
	Relative	
	Contribution %	Return %
VALE SA	0.8%	32.8%
INFOSYS LTD	0.6%	14.4%
NVIDIA CORPORATION	0.5%	49.9%
ASML HOLDING NV	0.5%	13.5%
SBERBANK OF RUSSIA	0.5%	15.5%
WULIANGYE ORD A	0.4%	12.8%
VALE SA	0.4%	33.8%
BANCO BILBAO VIZCAYA ARGENTARIA SA (BBVA)	0.3%	20.9%
MINING AND METALLURGIAL CO NORILSK NICKEL PJSC	0.3%	13.5%
TCS GROUP HOLDING PLC	0.2%	49.9%

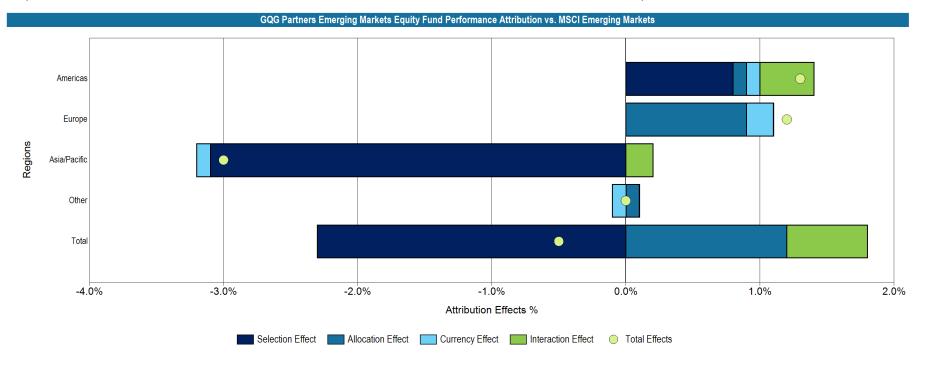
Top Negative Cont	ributors	
	Relative	
	Contribution %	Return %
NEW ORIENTAL EDUCATION & TECHNOLOGY GROUP INC	-0.5%	-41.5%
PING AN INSURANCE GROUP	-0.4%	-16.1%
NDUSTRIAL & COMMERCIAL BANK OF CHINA LTD	-0.2%	-12.6%
KAKAO CORP	-0.2%	63.2%
S.F. HOLDING CO LTD	-0.2%	-14.8%
TAL EDUCATION GROUP	-0.2%	-53.1%
JD.COM INC	-0.2%	-5.4%
LI NING CO LTD	-0.2%	88.6%
TC LTD	-0.1%	-6.2%
HENGRUI MEDI ORD A	-0.1%	-9.9%

				· = ×	***							
	Equity Sector Attribution											
			Attribution Effects		R	eturns	Secto	or Weights				
	Total	Selection	Allocation	Interaction								
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark				
Energy	-0.2%	-0.2%	0.2%	-0.1%	7.3%	13.4%	7.0%	4.9%				
Materials	1.3%	0.9%	0.0%	0.4%	22.8%	8.2%	8.6%	8.1%				
Industrials	-0.6%	-0.8%	-0.1%	0.4%	-8.0%	11.1%	2.1%	4.3%				
Consumer Discretionary	-1.3%	-3.8%	0.1%	2.4%	-18.4%	3.6%	6.1%	17.7%				
Consumer Staples	0.0%	0.0%	0.0%	0.0%	4.5%	5.0%	9.7%	5.6%				
Health Care	-0.7%	-1.0%	-0.2%	0.5%	-6.1%	14.5%	2.2%	4.5%				
Financials	-0.1%	-0.1%	-0.1%	0.0%	3.6%	4.1%	25.4%	18.3%				
Information Technology	1.3%	1.0%	-0.1%	0.4%	8.0%	3.5%	30.5%	21.0%				
Communication Services	0.1%	0.0%	0.1%	0.0%	1.6%	1.5%	6.4%	11.5%				
Utilities	0.0%		0.0%			4.1%	0.0%	2.0%				
Real Estate	0.0%	0.0%	0.0%	0.0%	-6.0%	-6.5%	2.1%	2.2%				
Cash	0.0%						0.0%	0.0%				
Portfolio	-0.2%	-3.9%	+ -0.2%	+ 3.8%	4.8%	5.0%	100.0%	100.0%				

Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of the period portfolio. Results may differ from the flash report.



## **GQG PARTNERS EMERGING MARKETS EQUITY FUND**



	Returns and Weights					Attribution Effects			
	Manager	Index	Manager	Index	Selection	Allocation	Currency	Interaction	Total
	Return	Return	Weight	Weight	Effect	Effect	Effect	Effect	Effects
Totals									
Americas	24.6%	15.6%	10.6%	7.3%	0.8%	0.1%	0.1%	0.4%	1.3%
Europe	14.1%	15.2%	15.6%	3.9%	0.0%	0.9%	0.2%	0.0%	1.2%
Asia/Pacific	-0.4%	3.6%	73.7%	80.1%	-3.1%	0.0%	-0.1%	0.2%	-3.0%
Other		3.9%	0.0%	8.7%		0.1%	-0.1%		0.0%
Total	4.5%	5.0%	100.0%	100.0%	-2.3%	1.2%	0.0%	0.6%	-0.5%
Totals									
Developed	12.9%		12.5%	0.0%	0.0%	0.0%	0.1%	1.0%	1.1%
Emerging*	3.3%	5.0%	87.5%	100.0%	-1.8%	0.0%	0.0%	0.2%	-1.6%



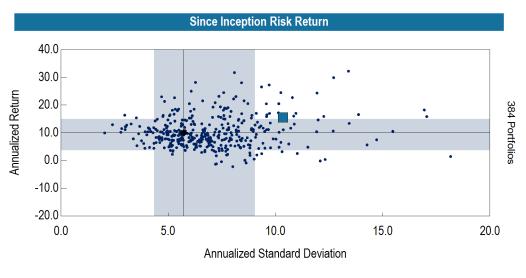
## **GQG PARTNERS EMERGING MARKETS EQUITY FUND**

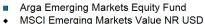
	Country Allocation					Country Allo	cation		
	Manager	Index	Manager	Index		Manager	Index	Manager	Index
	Allocation (USD) Alloc	ation (USD)	Return (USD)	Return (USD)		Allocation (USD) Allo	ocation (USD)	Return (USD)	Return (USD)
Americas					AsiaPacific				
Brazil*	6.1%	4.5%	29.7%	24.1%	China*	32.4%	38.0%	-4.5%	2.5%
Mexico*	0.2%	1.7%	3.6%	9.0%	Hong Kong	2.1%	0.0%	-6.0%	2.5%
United States	4.2%	0.0%	18.4%	8.8%	India*	21.4%	9.7%	4.6%	7.4%
Total-Americas	10.6%	7.3%	24.6%	15.6%	Indonesia*	1.0%	1.2%	-1.5%	-5.3%
Europe					Korea*	8.4%	13.4%	-0.3%	4.2%
Netherlands	4.0%	0.0%	13.5%	7.3%	Taiwan*	8.5%	13.9%	3.6%	6.0%
Russia*	9.5%	2.8%	13.1%	14.8%	Total-AsiaPacific	73.7%	80.1%	-0.4%	3.6%
Spain	1.6%	0.0%	20.9%	5.2%	Totals				
United Kingdom	0.4%	0.0%	14.2%	6.1%	Developed	12.5%	0.0%	12.9%	
Total-Europe	15.6%	3.9%	14.1%	15.2%	Emerging*	87.5%	100.0%	3.3%	5.0%

Country\* = Emerging Markets

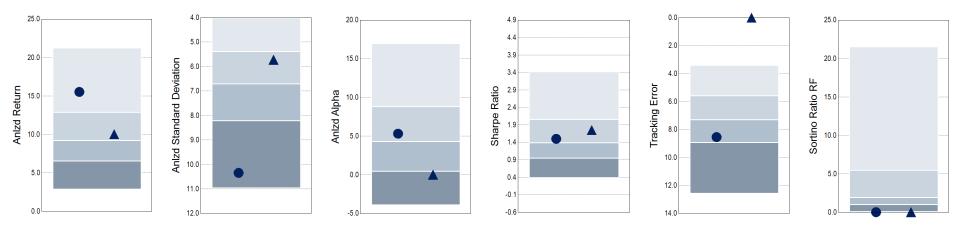


## **ARGA EMERGING MARKETS EQUITY FUND**



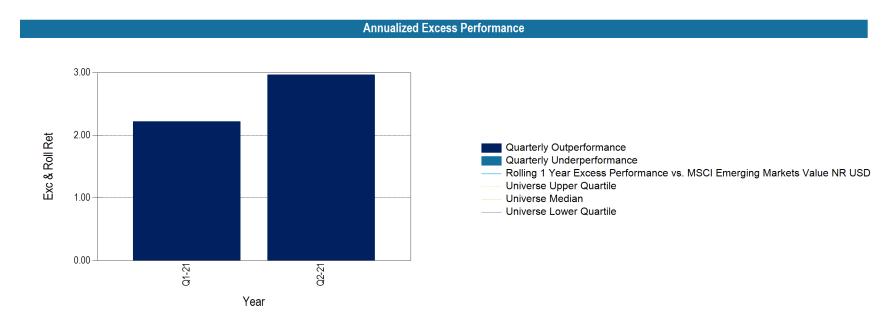


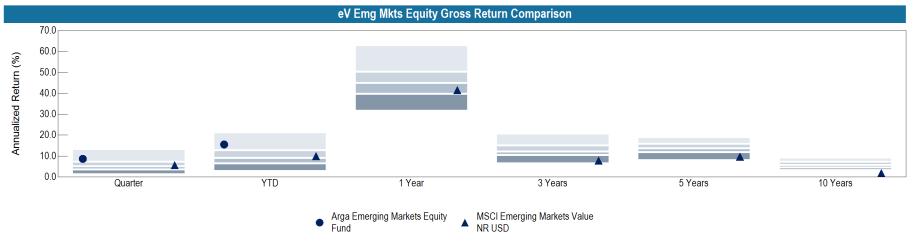
- 68% Confidence Interval
- eV Emg Mkts Equity Gross





## **ARGA EMERGING MARKETS EQUITY FUND**







## **ARGA EMERGING MARKETS EQUITY FUND**

Top Ten Holdings	
POSCO	4.4%
POWSZECHNY ZAKLAD UBEZPIECZEN SA	4.2%
BANCO DO BRASIL ON	4.0%
PETROLEO BRASILEIRO S.A PETROBRAS	3.5%
SK HYNIX INC	3.3%
SAMSUNG ELECTRONICS CO LTD	3.3%
JBS SA	3.2%
PICC PROPERTY & CASUALTY CO LTD	3.2%
CHINA RESOURCES POWER HOLDINGS CO LTD	2.9%
COGNIZANT TECHNOLOGY SOLUTIONS CORP	2.7%

Top Positive Contr	ributors	
	Relative	
	Contribution %	Return %
PETROLEO BRASILEIRO S.A PETROBRAS	1.7%	49.3%
TATA STEEL LTD	0.8%	44.6%
BANCO DO BRASIL ON	0.8%	21.0%
ALROSA PJSC	0.8%	31.3%
KUNLUN ENERGY CO LTD	0.6%	29.7%
POWSZECHNY ZAKLAD UBEZPIECZEN SA	0.5%	11.6%
SINOPHARM GROUP 'H'	0.4%	27.2%
JBS SA	0.4%	11.9%
POWSZECHNA KASA OSZCZEDNOSCI BANK POLSKI S.A.	0.3%	19.8%

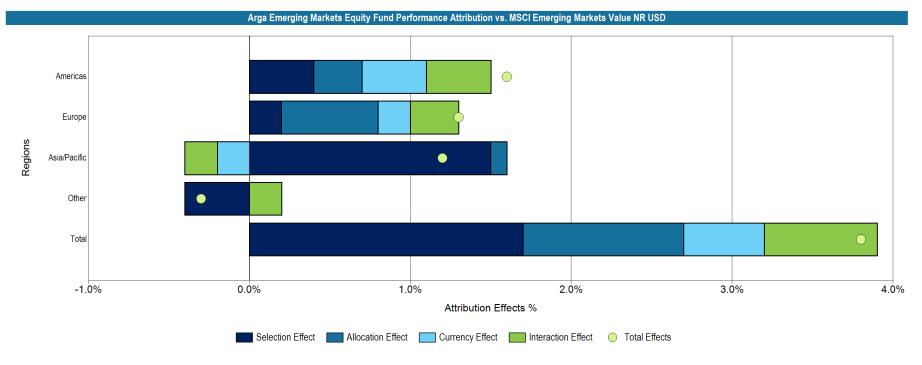
Top Negative Contributors									
	Relative								
	Contribution %	Return %							
CATCHER CO LTD	-0.3%	-12.2%							
COGNIZANT TECHNOLOGY SOLUTIONS CORP	-0.3%	-11.0%							
SHANGHAI MECHANICAL & ELECTRICAL INDUSTRY CO LTD	-0.3%	-14.6%							
LENOVO GROUP LTD	-0.3%	-19.2%							
MELCO RESORTS & ENTERTAINMENT LTD	-0.2%	-16.8%							
KRUNG THAI BANK PUBLIC CO LTD	-0.2%	-11.9%							
NASPERS LTD	-0.1%	-12.2%							
SK HYNIX INC	-0.1%	-4.0%							
BANGKOK BANK PUBLIC CO LTD	-0.1%	-10.9%							

Equity Sector Attribution									
	Total	Selection	Attribution Effects Allocation	Interaction	R	deturns	Sect	Sector Weights	
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark	
Energy	1.8%	0.8%	0.4%	0.6%	29.6%	17.1%	9.7%	5.5%	
Materials	1.3%	1.5%	0.0%	-0.2%	23.2%	8.5%	9.1%	9.1%	
Industrials	-0.6%	-0.8%	0.0%	0.2%	-7.7%	6.2%	4.0%	5.4%	
Consumer Discretionary	-0.9%	-1.1%	-0.1%	0.3%	-1.5%	7.4%	8.9%	11.5%	
Consumer Staples	0.2%	-0.1%	0.0%	0.3%	9.9%	6.7%	5.5%	5.8%	
Health Care	-0.1%	0.2%	-0.2%	-0.1%	27.2%	19.5%	1.6%	3.1%	
Financials	2.4%	1.9%	-0.1%	0.6%	10.4%	2.9%	32.1%	29.3%	
Information Technology	-1.4%	-1.3%	0.0%	-0.1%	-4.2%	3.5%	18.5%	16.7%	
Communication Services	0.2%	0.3%	0.1%	-0.2%	6.1%	2.6%	4.4%	7.2%	
Utilities	0.6%	0.3%	0.0%	0.3%	14.7%	5.4%	6.2%	2.9%	
Real Estate	0.4%		0.4%	-	-	-7.0%	0.0%	3.6%	
Cash	0.0%						0.0%	0.0%	
Portfolio	3.8%	= 1.7%	+ 0.5%	+ 1.7%	9.2%	5.4%	100.0%	100.0%	

Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of the period portfolio. Results may differ from the flash report.



## **ARGA EMERGING MARKETS EQUITY FUND**



	Returns and Weights					Attribution Effects			
	Manager	Index	Manager	Index	Selection	Allocation	Currency	Interaction	Total
	Return	Return	Weight	Weight	Effect	Effect	Effect	Effect	Effects
Totals									
Americas	20.9%	17.2%	15.4%	7.8%	0.4%	0.3%	0.4%	0.4%	1.6%
Europe	18.7%	15.5%	12.8%	4.5%	0.2%	0.6%	0.2%	0.3%	1.3%
Asia/Pacific	5.3%	3.6%	66.2%	78.7%	1.5%	0.1%	-0.2%	-0.2%	1.2%
Other	2.4%	6.2%	5.6%	9.0%	-0.4%	0.0%	0.0%	0.2%	-0.3%
Total	9.2%	5.4%	100.0%	100.0%	1.7%	1.0%	0.5%	0.7%	3.8%
Totals									
Developed	3.4%		15.6%	0.0%	0.0%	0.0%	0.0%	-0.2%	-0.1%
Emerging*	10.3%	5.4%	84.4%	100.0%	4.2%	0.0%	0.4%	-0.7%	4.0%



## **ARGA EMERGING MARKETS EQUITY FUND**

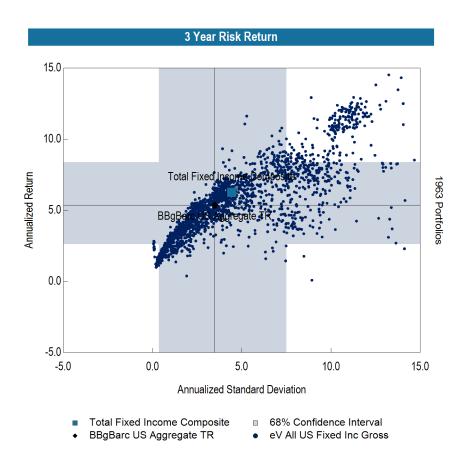
Country Allocation						
	Manager	Index	Manager	Index		
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)		
Americas						
Brazil*	11.7%	4.8%	28.5%	26.5%		
Mexico*	1.0%	1.9%	17.8%	9.3%		
United States	2.7%	0.0%	-11.0%	8.8%		
Total-Americas	15.4%	7.8%	20.9%	17.2%		
Europe						
Czech Republic*	0.7%	0.1%	14.0%	14.1%		
Poland*	6.3%	0.8%	14.2%	20.3%		
Russia*	5.8%	3.4%	24.2%	15.7%		
Total-Europe	12.8%	4.5%	18.7%	15.5%		

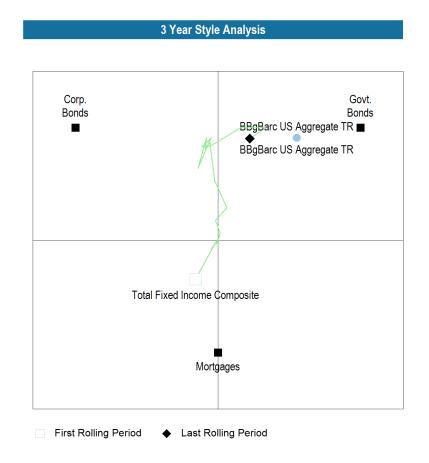
Country Allocation						
Manager	Index	Manager	Index			
Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)			
18.2%	37.4%	5.2%	2.8%			
11.6%	0.0%	4.3%	2.5%			
6.3%	10.6%	23.5%	8.1%			
0.9%	1.2%	-3.9%	-7.5%			
20.3%	13.4%	4.7%	4.6%			
1.3%	0.0%	24.9%	0.4%			
4.6%	12.0%	-5.8%	3.8%			
3.1%	1.9%	-12.0%	-5.4%			
66.2%	78.7%	5.3%	3.6%			
5.1%	4.1%	0.5%	4.1%			
0.5%	0.3%	20.4%	6.1%			
5.6%	9.0%	2.4%	6.2%			
15.6%	0.0%	3.4%				
84.4%	100.0%	10.3%	5.4%			
	Manager Allocation (USD) 18.2% 11.6% 6.3% 0.9% 20.3% 1.3% 4.6% 3.1% 66.2% 5.1% 0.5% 5.6%	Manager         Index           Allocation (USD)         Allocation (USD)           18.2%         37.4%           11.6%         0.0%           6.3%         10.6%           0.9%         1.2%           20.3%         13.4%           1.3%         0.0%           4.6%         12.0%           3.1%         1.9%           66.2%         78.7%           5.1%         4.1%           0.5%         0.3%           5.6%         9.0%	Manager Allocation (USD)         Index Return (USD)           18.2%         37.4%         5.2%           11.6%         0.0%         4.3%           6.3%         10.6%         23.5%           0.9%         1.2%         -3.9%           20.3%         13.4%         4.7%           1.3%         0.0%         24.9%           4.6%         12.0%         -5.8%           3.1%         1.9%         -12.0%           66.2%         78.7%         5.3%           5.1%         4.1%         0.5%           0.5%         0.3%         20.4%           5.6%         9.0%         2.4%           15.6%         0.0%         3.4%			

Country\* = Emerging Markets



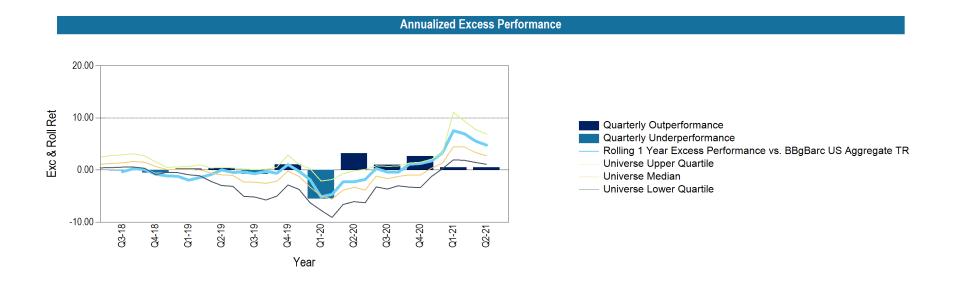
## Howard County Retirement Plans TOTAL FIXED INCOME COMPOSITE





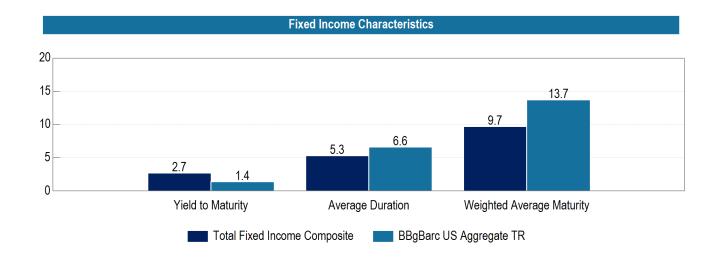


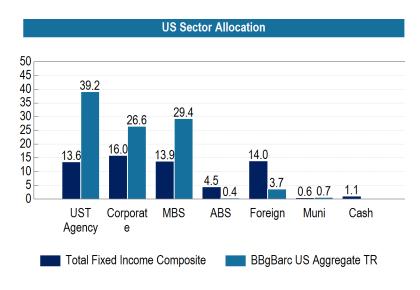
# Howard County Retirement Plans TOTAL FIXED INCOME COMPOSITE

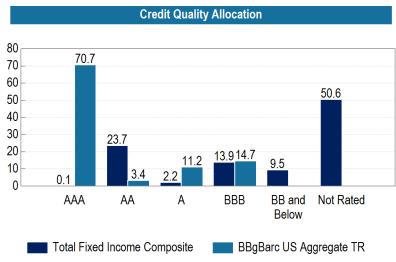




### **TOTAL FIXED INCOME COMPOSITE**

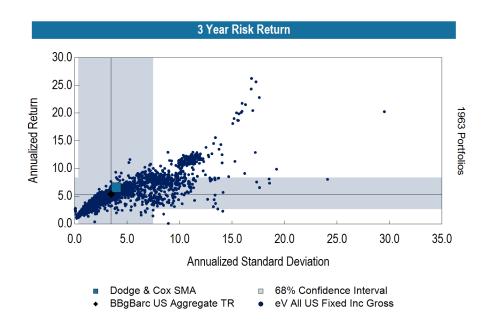




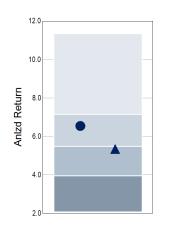


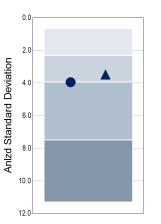


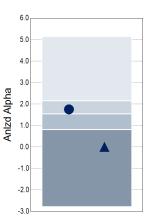
## Howard County Retirement Plans DODGE & COX SMA

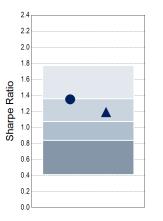


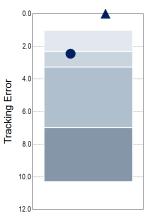


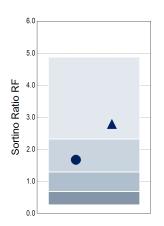






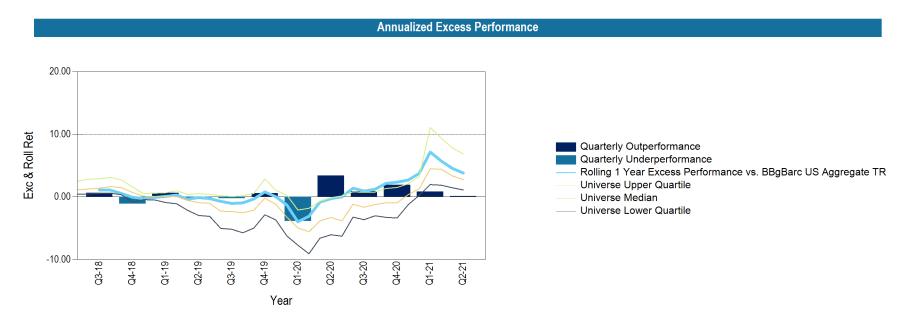


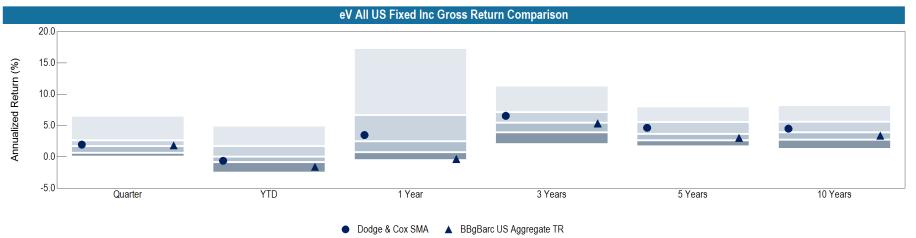






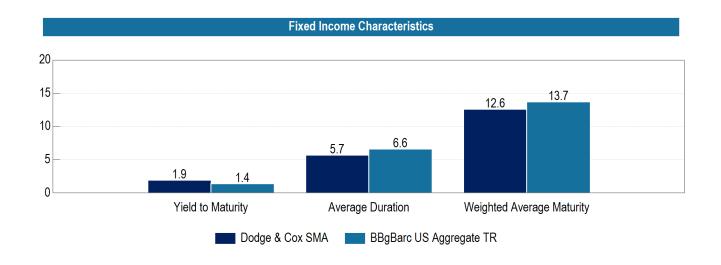
# Howard County Retirement Plans DODGE & COX SMA

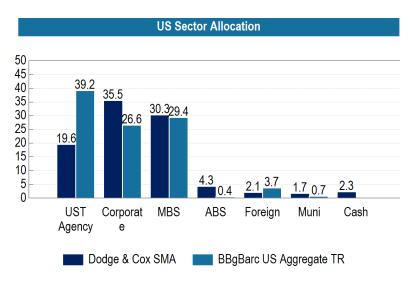


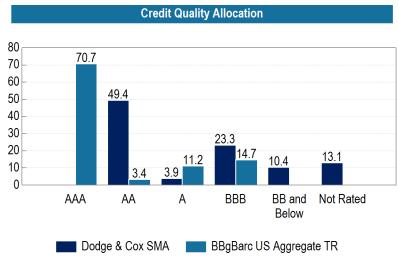




## Howard County Retirement Plans DODGE & COX SMA

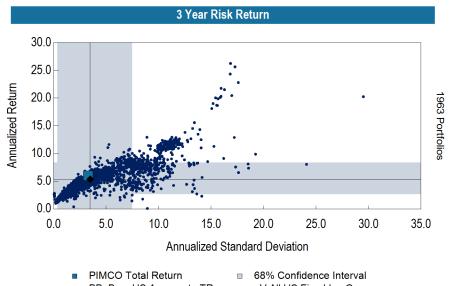




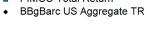




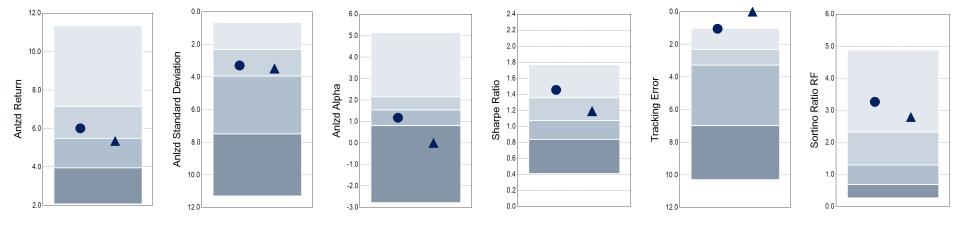
# Howard County Retirement Plans PIMCO TOTAL RETURN





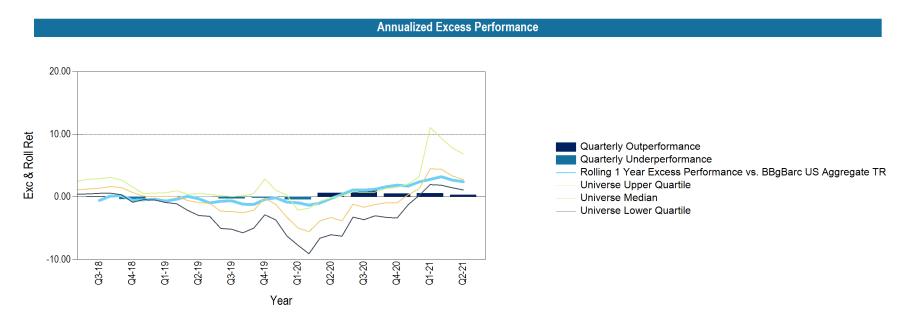


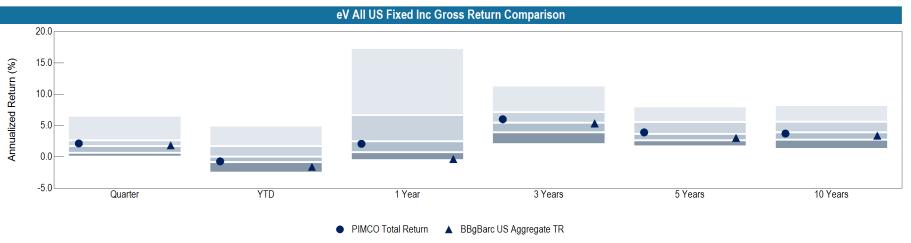






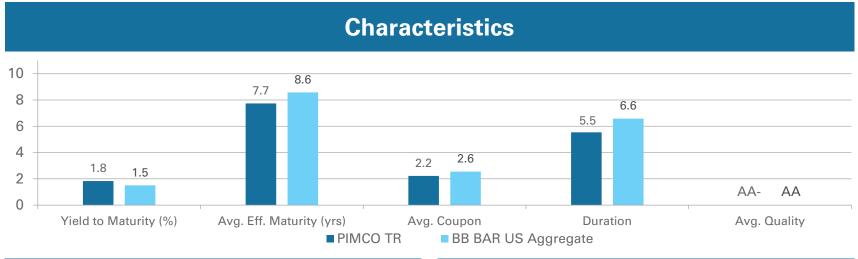
# Howard County Retirement Plans PIMCO TOTAL RETURN



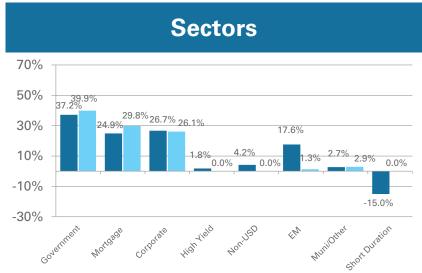




## Howard County Retirement Plans PIMCO TOTAL RETURN



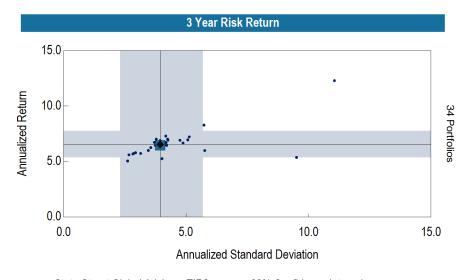




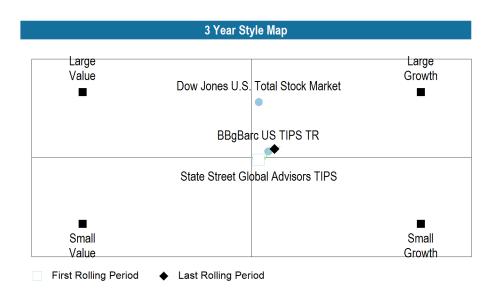


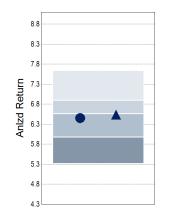
Source: PIMCO

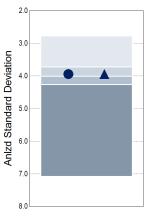
### STATE STREET GLOBAL ADVISORS TIPS

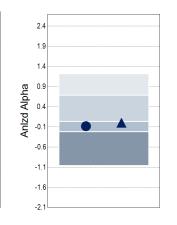


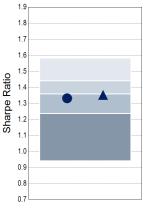
- State Street Global Advisors TIPS
- ◆ BBgBarc US TIPS TR
- 68% Confidence Interval
- eV US TIPS / Inflation Fixed Inc Gross

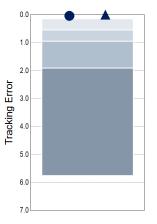


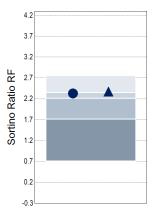






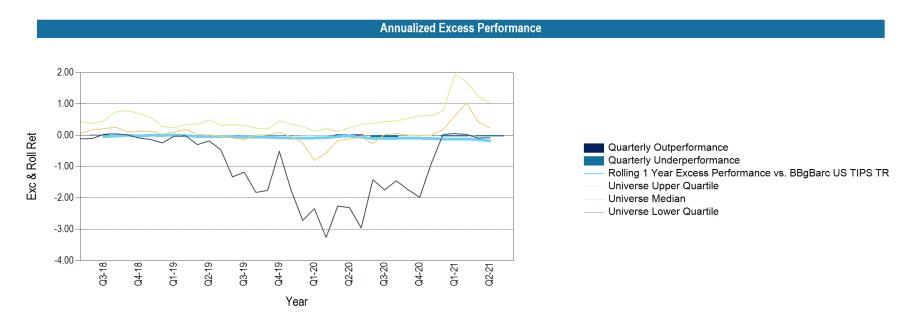


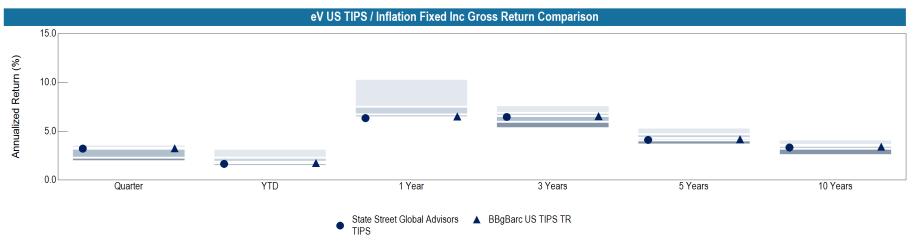






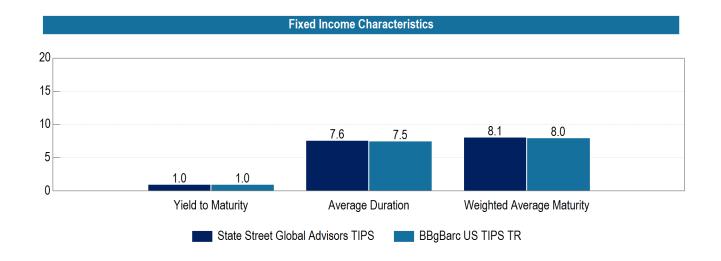
### STATE STREET GLOBAL ADVISORS TIPS

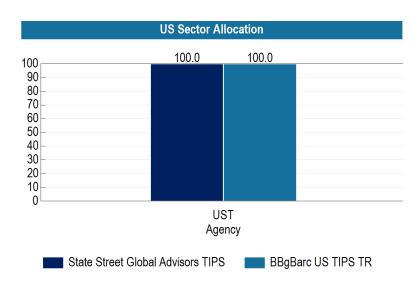


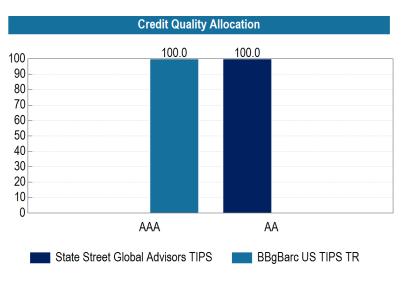




# STATE STREET GLOBAL ADVISORS TIPS

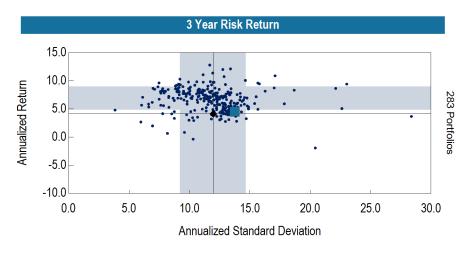




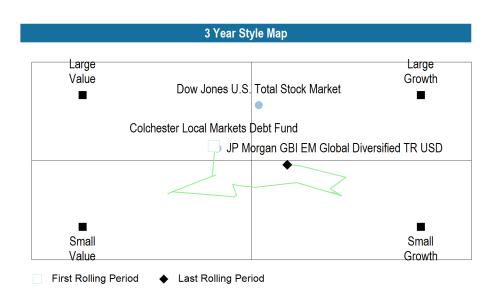


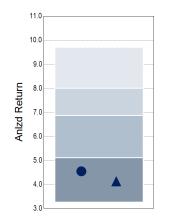


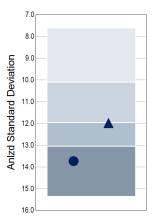
### **COLCHESTER LOCAL MARKETS DEBT FUND**

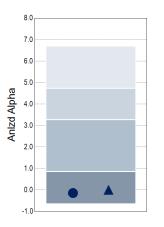


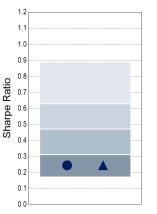
- Colchester Local Markets Debt Fund
- JP Morgan GBI EM Global Diversified TR USD
- 68% Confidence Interval
- eV All Emg Mkts Fixed Inc Gross

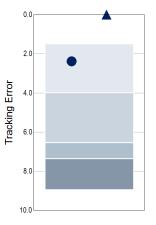


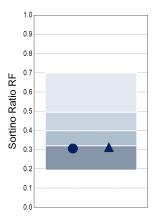






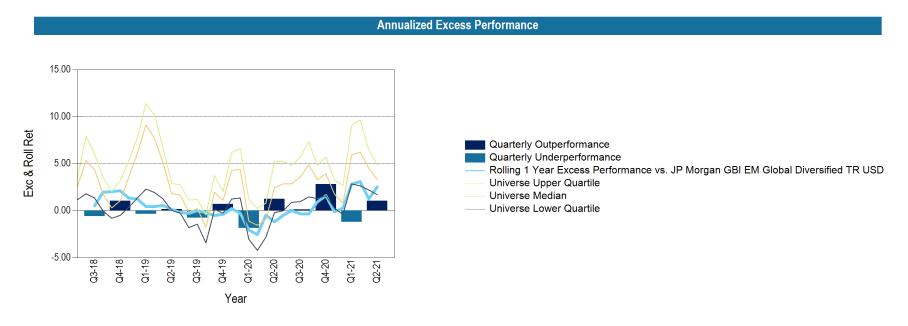


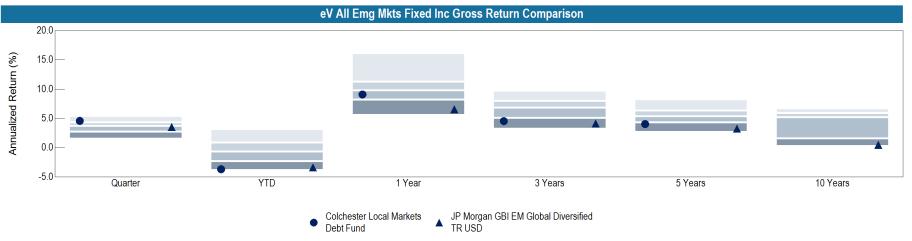






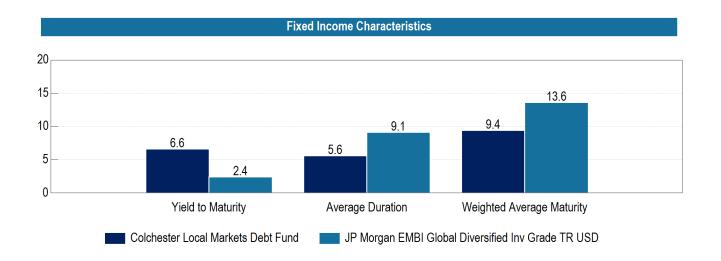
# **COLCHESTER LOCAL MARKETS DEBT FUND**

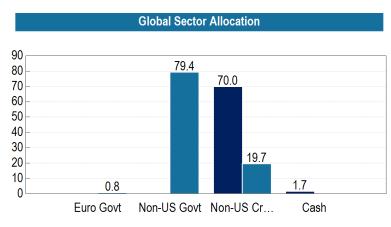


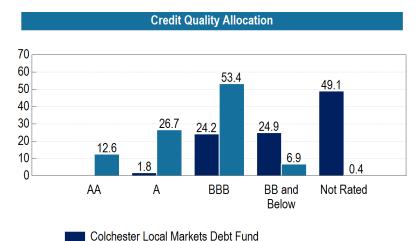




# **COLCHESTER LOCAL MARKETS DEBT FUND**







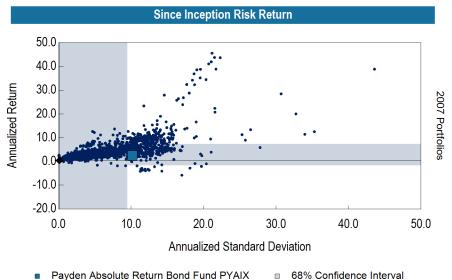
Colchester Local Markets Debt Fund

JP Morgan EMBI Global Diversified Inv Grade TR USD





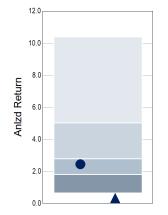
# PAYDEN ABSOLUTE RETURN BOND FUND

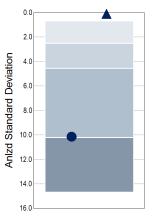


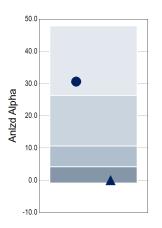


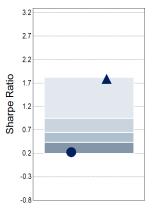
Since Inception Style Map

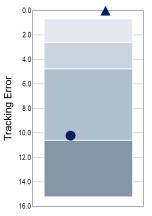
- Payden Absolute Return Bond Fund PYAIX
- 3-Month Libor Total Return USD
- eV All US Fixed Inc Gross

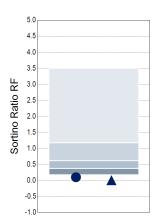






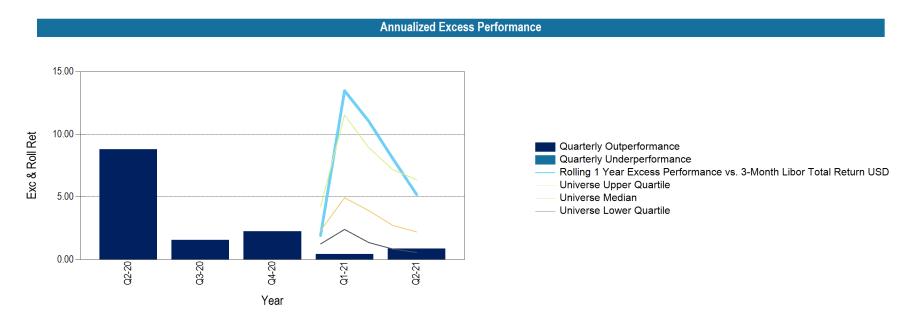








### PAYDEN ABSOLUTE RETURN BOND FUND







# Howard County Retirement Plans PAYDEN ABSOLUTE RETURN BOND FUND



TIPS	
High Yield	Emerging Markets Ed
	Core Fixed Income
Top Holdings as of N	May 31, 2021
IRY NOTE FUTURE SEPT 21	6.3%
ΓURE JUNE 21	5.9%
URY NOTE FUTURE SEPT 21	3.3%
FUTURE JUNE 21	1.9%

Top Holdings as of May 31, 2021	
5 YEAR TREASURY NOTE FUTURE SEPT 21	6.3%
EURO BOBL FUTURE JUNE 21	5.9%
10 YEAR TREASURY NOTE FUTURE SEPT 21	3.3%
EURO SCHATZ FUTURE JUNE 21	1.9%
ULTRA 10 YEAR US TREASURY NOTE FUTURE SEPT 21	1.9%
BOND-UNSETTLED PURCHASES	1.8%
EURO BUND FUTURE JUNE 21	1.4%
PAYDEN CASH RESERVES MONEY MARKET	1.0%
FEDERAL HOME LOAN MORTGAGE CORPORATION 1.94%	0.7%
FEDERAL HOME LOAN MORTGAGE CORPORATION 1.94%	0.6%

Fund Information as of May 31, 2021									
Fund Name	PAYDEN ABSOLUTE RETURN BOND SI								
Ticker	PYAIX								
Morningstar Category	Nontraditional Bond								
Benchmark	3-Month Libor Total Return USD								
Expense Ratio	0.5%								
Fund Assets (\$mm)	819.3								
Share Class Inception Date	11/6/2014								
Manager Tenure	7								

Credit Quality as of June 30,	2021
AAA	9.0%
AA	4.0%
A	7.0%
BBB	28.0%
BB	19.0%
В	10.0%
Below B	0.0%
Not Rated	23.0%

Maturities as of May 31, 2021									
1 to 3 Years	10.2%								
3 to 5 Years	20.5%								
5 to 7 Years	13.4%								
7 to 10 Years	14.3%								
10 to 15 Years	12.4%								
15 to 20 Years	12.3%								
20 to 30 Years	16.1%								
Greater than 30 Years	0.7%								



Benchmarks: HFRI FOF: Conservative Index As of: March 2021



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# **Blackstone Partners Offshore Fund (Partners OS) Blackstone**

Benchmarks: HFRI FOF: Conservative Index As of: June 2021



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ackstor	1e										A3 011 30	c zozz					
onthly I	Performa	ance												Performance Analysis			
2021 2020	-0.3 0.3	2.4 -0.6	Mar 0.3 -7.4	1.6 2.2	0.4 1.7	Jun 1.1 1.9	Jul 1.2	Aug  1.5	 -0.2	Oct 0.1	Nov  2.2	 2.7	<b>Year</b> 5.6 5.4		Blackstone Partners Offshore Fund (Partners OS)	HFRI FOF: Conservative Index	
2019	2.1	0.5	0.5	0.7	-0.2	1.5	0.5	-0.2	-0.1	0.2	0.7	0.9	72	Since Inception Return	5.6	3.0	
2018	1.5	-0.2	0.0	0.4	0.7	-0.2	0.5	0.2	0.7	-0.6	-0.5	-0.8	1.6	1 Yr Return	13.9	14.8	
2017 2016	1.0 -1.1	0.8 -1.2	0.5 0.2	0.5 0.8	0.7 1.1	-0.3 -1.0	0.6 0.8	0.9 1.0	0.6 0.4	1.2 0.1	-0.1 0.9	0.3 0.8	7.0 2.8	3 Yr Return	5.9	5.3	
2015	-0.3	1.6	0.2	-0.1	1.3	-0.7	1.1	-0.8	-0.8	0.6	0.4	0.0	3.4	5 Yr Return	6.2	5.0	
2014	0.5	1.4	-0.2	0.1	1.2	0.8	0.3	0.6	0.5	-0.8	1.1	0.5	5.9	7 Yr Return	5.0	3.5	
013	2.0	0.6	1.2	0.7	1.2	-0.8	1.0	0.0	0.9	1.1	1.0	0.8	10.1	10 Yr Return	5.4	3.5	
012	1.7	1.2	0.3	0.2	-0.8	-0.1	1.1	1.1	1.1	0.2	0.9	0.9	7.9	Best Month	3.3	2.7	
011	0.6	1.0	0.2	1.2	-0.5	-1.0	0.2	-1.6	-2.2	1.5	-0.4	-0.2	-1.2	Worst Month	-7.4	-6.8	
010	0.7	0.5	1.5	0.7	-1.6	-0.3	0.8	0.5	1.3	1.2	0.2	1.7	7.4 15.6	Percent Profitable Periods	73.4	71.9	
009	1.3	0.2	-0.1	1.8	3.3	0.6	1.7	1.5	2.0	0.6	1.2	0.6	15.6	Product Inception Date	07/01/2016	01/01/1990	
	Out	tperform	BM in U	p Marke	ts			Out	tperform	BM in Do	wn Mai	rkets		Di	stribution of Retur	ns	
100			100				1	.00		100				100			
80			80					80		80				75			
60			60					60		60				50			
40			40					40		40				30			
40			70					70		40							
20			20					20		20				25			
0			0					0		0				0			
	BM	11		В	M2				BM1			BM2		1,000,000,000,000,000,000,000,000,000,0	30,70,70,00,70,	030 k050601	10 8 10 9 10 1
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		Risk/R	Return Pr	ofile					Und	erwater I	Drawdo	wn		Risk Analysis			
														Since Inception Standard Deviation	4.3	4.3	
6							5							3 Yr Standard Deviation	5.7	5.5	
														5 Yr Standard Deviation	4.5	4.3	
							0	AA	TA V		TAV.	/ · · · · · · · · · · · · · · · · · · ·		7 Yr Standard Deviation	4.1	3.9	
5							-5			M M	<b>V</b>	٧		10 Yr Standard Deviation	3.8	3.6	
							-5			M /				Sharpe Ratio	1.0	0.4	
							-10			10/				Sortino Ratio	1.4	0.5	
4							10		N	W				Loss Deviation	3.1	3.5	
							-15							Max Drawdown	15.5	20.4	
	_						10		1/					Max Drawdown Length	12	14	
3							-20		W					Max Drawdown Recovery Length	15	62	
							-25							Comparison to Benchmarks			
2 4 20	.DE	4 205	4.3	1075	4.21		1	10° 90° 101	109 3/20 47	1 112 913	124 176 21	1 418 119	1/20	Comparison to benchinal ks			
4.30	125	4.305 Standa	4.3 ard Deviation	1075 1	4.31		,	/ / / / /	יני יע יע	, , , , ,	י, אי אי	y. 11		Appualized Alpha		2.7	
														Annualized Alpha		1.0	
	_ Blacks	tone Partners	offshore Fun	ıd					Blackstone (Partners	Partners Offs	hore Fund			Beta Correlation Coefficient		1.0	
	(Partn	ers OS)							(Faithers	03)							
	_ HFRI F	OF: Conserva	ative Index						- HFRI FOF:	Conservative	Index			R-Squared		0.9	17

# **NEPC'S DUE DILIGENCE MONITOR**

Investment Options	Manager Changes/ Announcement	NEPC Due Diligence Committee Recommendations
Greenspring Associates	Change of Firm Ownership: StepStone Group Acquisition of Greenspring Associates 07/07/21	FYI
GQG Partners LLC	Change of Firm Ownership	FYI



# **NEPC'S DUE DILIGENCE MONITOR DETAIL**

Investment Options	Commentary	NEPC Rating
Greenspring Associates	On July 7, 2021, StepStone Group (NASDAQ: STEP) announced that it had reached an agreement to acquire 100% ownership of Greenspring Associates. StepStone is an asset management and investment advisory firm that focuses on private markets. Under the terms of the agreement, Greenspring Associates will continue to manage all its existing private equity funds, with senior StepStone professionals joining Greenspring's funds' investment committees. Once the transaction has closed (expected in 3-4 months), Greenspring funds will be rebranded as StepStone funds. StepStone is purchasing Greenspring for \$800 million (including a \$75 million potential earn-out) in a combination of cash and StepStone stock, which vests over the three years following the closing of the transaction. Greenspring will retain 100% of its GP carried interest for all active private equity funds, 75% for any new funds raised through the end of 2024 and 50% for any new funds raised in 2025 or later. GP carried interest is subject to a 5-year vesting schedule specific to each investment product. (continued on next page)	



# **NEPC'S DUE DILIGENCE MONITOR DETAIL**

Investment Options	Commentary	NEPC Rating
Greenspring Associates (continued)	Greenspring does not expect this transaction to cause any significant changes to its employee base and expects to add employees through the integration of StepStone's existing venture capital and growth equity investment professionals. Ashton Newhall and Jim Lim will continue to head Greenspring as the leaders of StepStone's Venture Capital and Growth Equity division. Both will be involved in additional leadership roles within StepStone. Greenspring indicated that they believe that this transaction will give them access to a broader global team of business development, investor relations and investment professionals, provide an important capital source to expand its growth equity and international investment programs and provide new relationships and company information to "amplify the combined platforms' flywheel effect" particularly regarding direct and secondary investment opportunities. Because this transaction involves a change in ownership/control of Greenspring Associates, Greenspring needs to seek investor consents for each of its products.  NEPC does not believe that StepStone's acquisition of Greenspring Associates should have a significant negative impact on the investment of any of Greenspring's existing investment products. As such, NEPC is supportive of Greenspring's request for investors to provide an affirmative consent to this transaction. However, NEPC will continue to monitor the Firm over the next 4-5 years to see how the Greenspring investment team has been impacted by this change in Firm ownership and being part of a publicly-traded asset advisory and asset management platform.	



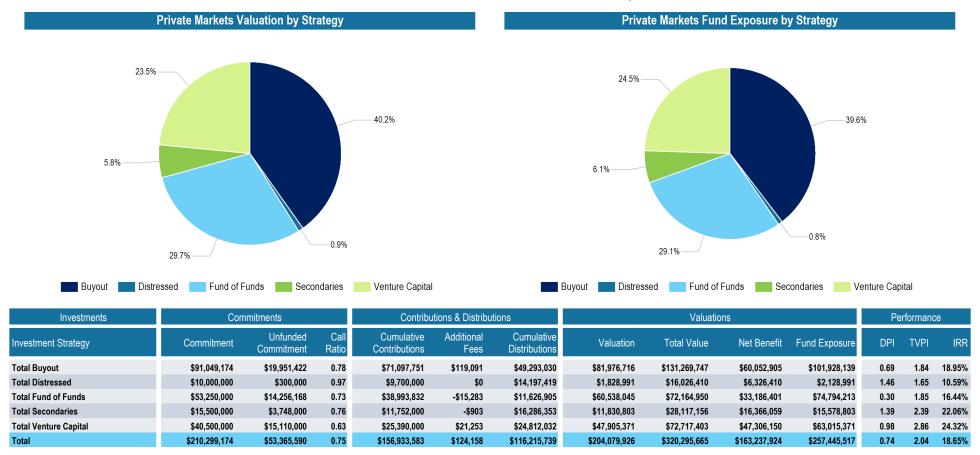
# **NEPC'S DUE DILIGENCE MONITOR DETAIL**

Investment Options	Commentary	NEPC Rating
GQG Partners LLC	NEPC Research was made aware of a recent news article that references GQG Partners. The article alludes to GQG Partners and a potential public listing of 20% of the company on the Australian Stock Exchange (ASX). GQG would use an ASX-listing to try to build its brand with Australian financial advisers and retail investors. GQG's client base includes Australia's AustalianSuper, Rest Super and Cbus.  GQG Partners' other Australian connection, in addition to AustralianSuper and co, is the group's CEO Tim Carver. Carver formerly ran ASX-listed boutique funds investor Pacific Current Group. (Pacific Current is also one of GQG Partners' few external shareholders, owning a 5 percent stake). UBS and Goldman Sachs are joint lead managers to the IPO. GQG Partners would need to sell shares worth at least 20 percent of the company to be included in the benchmark S&P/ASX 200 index, which would imply a \$1 billion-plus raising.  NEPC Research will continue to monitor the situation as more information becomes available. Given the publicly available information so far NEPC does not believe a public listing would have a material impact on GQGs business and investment functions.	1



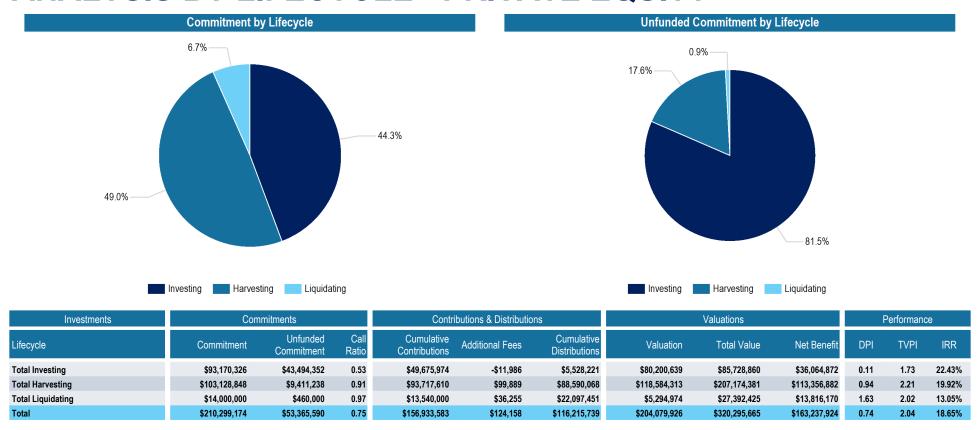


# **ANALYSIS BY STRATEGY - PRIVATE EQUITY**





# **ANALYSIS BY LIFECYCLE - PRIVATE EQUITY**





# **ANALYSIS BY LIFECYCLE - PRIVATE EQUITY**

Investments	Commitme	ents	Contribu	utions & Distribut	tions	Valuations				Performance		
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Investing												
57 Stars Global Opportunity Fund 4 (US), L.P.	2015	\$7,000,000	\$1,630,168	\$5,369,832	-\$15,283	\$0	\$8,812,002	\$8,812,002	\$3,457,453	0.00	1.65	14.58%
Aberdeen U.S. Private Equity VII, L.P.	2017	\$5,000,000	\$1,600,000	\$3,400,000	\$3,297	\$1,078,589	\$5,484,857	\$6,563,446	\$3,160,149	0.32	1.93	38.37%
Greenspring Diversity I, L.P.	2020	\$2,500,000	\$2,375,000	\$125,000	\$0	\$0	\$202,857	\$202,857	\$77,857	0.00	1.62	
Greenspring Global Partners IX-B, L.P.	2019	\$7,250,000	\$3,190,000	\$4,060,000	\$0	\$152,308	\$6,379,717	\$6,532,025	\$2,472,025	0.04	1.61	42.29%
Greenspring Global Partners VIII-B, L.P.	2017	\$5,000,000	\$750,000	\$4,250,000	\$0	\$0	\$6,901,124	\$6,901,124	\$2,651,124	0.00	1.62	26.46%
Greenspring Global Partners X, L.P.	2020	\$7,500,000	\$6,525,000	\$975,000	\$0	\$0	\$1,053,596	\$1,053,596	\$78,596	0.00	1.08	12.74%
Greenspring Opportunities VI, L.P.	2020	\$7,000,000	\$3,920,000	\$3,080,000	\$0	\$0	\$4,036,503	\$4,036,503	\$956,503	0.00	1.31	42.58%
HarbourVest Partners Co-Investment Fund IV AIV, L.P.	2018	\$574,142	\$312,689	\$261,453	\$0	\$67,347	\$873,356	\$940,703	\$679,250	0.26	3.60	55.93%
HarbourVest Partners Co-Investment Fund IV, L.P.	2017	\$9,425,858	\$1,964,610	\$7,461,248	\$0	\$2,178,001	\$12,730,401	\$14,908,402	\$7,447,154	0.29	2.00	22.37%
NB Crossroads Fund XXI, L.P.	2015	\$15,000,000	\$5,250,000	\$9,750,000	\$0	\$1,168,597	\$18,125,128	\$19,293,725	\$9,543,725	0.12	1.98	20.99%
NB Crossroads Fund XXII, L.P.	2019	\$5,000,000	\$2,300,000	\$2,700,000	\$0	\$0	\$3,811,812	\$3,811,812	\$1,111,812	0.00	1.41	23.03%
Schroder Adveq Europe Direct II S.C.S.	2018	\$1,022,921	\$423,108	\$599,813	\$0	\$0	\$1,171,080	\$1,171,080	\$571,267	0.00	1.95	44.79%
Schroder Adveq Europe VI, L.P.	2015	\$6,858,360	\$1,621,914	\$5,236,446	\$0	\$883,378	\$7,536,434	\$8,419,812	\$3,183,366	0.17	1.61	17.42%
Schroder Adveq Europe VII S.C.S.	2018	\$4,039,045	\$2,714,943	\$1,324,102	\$0	\$0	\$2,236,395	\$2,236,395	\$912,293	0.00	1.69	36.01%
Vista Foundation Fund IV, L.P.	2020	\$10,000,000	\$8,916,920	\$1,083,080	\$0	\$0	\$845,378	\$845,378	-\$237,702	0.00	0.78	-58.55%
Total Investing		\$93,170,326	\$43,494,352	\$49,675,974	-\$11,986	\$5,528,221	\$80,200,639	\$85,728,860	\$36,064,872	0.11	1.73	22.43%
Harvesting												
Aberdeen U.S. Private Equity V, L.P.	2013	\$15,000,000	\$0	\$15,000,000	\$7,648	\$11,712,498	\$16,496,833	\$28,209,331	\$13,201,683	0.78	1.88	18.30%
Aberdeen U.S. Private Equity VI, L.P.	2014	\$15,000,000	\$975,000	\$14,025,000	\$0	\$7,245,378	\$17,938,156	\$25,183,534	\$11,158,534	0.52	1.80	21.38%
Crown Asia-Pacific Private Equity II PLC	2011	\$14,000,000	\$1,106,000	\$12,894,000	\$0	\$9,296,000	\$15,055,591	\$24,351,591	\$11,457,591	0.72	1.89	12.46%
Crown Asia-Pacific Private Equity III PLC	2014	\$5,000,000	\$780,000	\$4,220,000	\$0	\$1,010,000	\$8,353,795	\$9,363,795	\$5,143,795	0.24	2.22	25.10%
Crown Global Secondaries III PLC, L.P.	2012	\$10,000,000	\$2,640,000	\$7,360,000	\$0	\$7,380,000	\$4,936,595	\$12,316,595	\$4,956,595	1.00	1.67	15.34%
Greenspring Global Partners V-B, L.P.	2011	\$7,000,000	\$630,000	\$6,370,000	-\$16,154	\$12,712,000	\$11,080,312	\$23,792,312	\$17,438,466	2.00	3.74	25.57%
Greenspring Global Partners VI, L.P.	2014	\$7,500,000	\$750,000	\$6,750,000	\$1,152	\$4,200,000	\$21,164,996	\$25,364,996	\$18,613,844	0.62	3.76	30.41%
Greenspring Secondaries Fund I, L.P.	2014	\$2,500,000	\$100,000	\$2,400,000	-\$903	\$6,112,913	\$6,512,077	\$12,624,990	\$10,225,893	2.55	5.26	39.42%
HarbourVest 2013 Direct Fund, L.P.	2013	\$15,000,000	\$484,349	\$14,515,651	\$108,146	\$20,392,936	\$9,622,955	\$30,015,891	\$15,392,094	1.39	2.05	19.70%
Pantheon Global Secondary Fund IV, L.P.	2010	\$3,000,000	\$1,008,000	\$1,992,000	\$0	\$2,793,440	\$382,131	\$3,175,571	\$1,183,571	1.40	1.59	13.13%
Schroder Adveg Europe V, L.P.	2012	\$9,128,848	\$937,889	\$8,190,959	\$0	\$5,734,903	\$7,040,872	\$12,775,775	\$4,584,816	0.70	1.56	10.93%
Total Harvesting		\$103,128,848	\$9,411,238	\$93,717,610	\$99,889	\$88,590,068	\$118,584,313	\$207,174,381	\$113,356,882	0.94	2.21	19.92%



# **ANALYSIS BY LIFECYCLE - PRIVATE EQUITY**

Investments	Commitme	ents	Contribu	itions & Distribut	tions	Valuations				Performance		
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Liquidating												
Greenspring Global Partners IV, L.P.	2008	\$4,000,000	\$160,000	\$3,840,000	\$36,255	\$7,900,032	\$3,465,983	\$11,366,015	\$7,489,760	2.04	2.93	18.03%
Siguler Guff Distressed Opportunities Fund III, L.P.	2007	\$10,000,000	\$300,000	\$9,700,000	\$0	\$14,197,419	\$1,828,991	\$16,026,410	\$6,326,410	1.46	1.65	10.59%
Total Liquidating		\$14,000,000	\$460,000	\$13,540,000	\$36,255	\$22,097,451	\$5,294,974	\$27,392,425	\$13,816,170	1.63	2.02	13.05%
Total		\$210,299,174	\$53,365,590	\$156,933,583	\$124,158	\$116,215,739	\$204,079,926	\$320,295,665	\$163,237,924	0.74	2.04	18.65%



# **ANALYSIS BY VINTAGE YEAR - PRIVATE EQUITY**

Investments		Commitme	ents	Contribu	itions & Distribu	tions		Valuations		P	erforma	ınce
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
2007												
Siguler Guff Distressed Opportunities Fund III, L.P.	2007	\$10,000,000	\$300,000	\$9,700,000	\$0	\$14,197,419	\$1,828,991	\$16,026,410	\$6,326,410	1.46	1.65	10.59%
Total 2007		\$10,000,000	\$300,000	\$9,700,000	\$0	\$14,197,419	\$1,828,991	\$16,026,410	\$6,326,410	1.46	1.65	10.59%
2008												
Greenspring Global Partners IV, L.P.	2008	\$4,000,000	\$160,000	\$3,840,000	\$36,255	\$7,900,032	\$3,465,983	\$11,366,015	\$7,489,760	2.04	2.93	18.03%
Total 2008		\$4,000,000	\$160,000	\$3,840,000	\$36,255	\$7,900,032	\$3,465,983	\$11,366,015	\$7,489,760	2.04	2.93	18.03%
2010												
Pantheon Global Secondary Fund IV, L.P.	2010	\$3,000,000	\$1,008,000	\$1,992,000	\$0	\$2,793,440	\$382,131	\$3,175,571	\$1,183,571	1.40	1.59	13.13%
Total 2010		\$3,000,000	\$1,008,000	\$1,992,000	\$0	\$2,793,440	\$382,131	\$3,175,571	\$1,183,571	1.40	1.59	13.13%
2011												
Crown Asia-Pacific Private Equity II PLC	2011	\$14,000,000	\$1,106,000	\$12,894,000	\$0	\$9,296,000	\$15,055,591	\$24,351,591	\$11,457,591	0.72	1.89	12.46%
Greenspring Global Partners V-B, L.P.	2011	\$7,000,000	\$630,000	\$6,370,000	-\$16,154	\$12,712,000	\$11,080,312	\$23,792,312	\$17,438,466	2.00	3.74	25.57%
Total 2011		\$21,000,000	\$1,736,000	\$19,264,000	-\$16,154	\$22,008,000	\$26,135,903	\$48,143,903	\$28,896,057	1.14	2.50	18.01%
2012												
Crown Global Secondaries III PLC, L.P.	2012	\$10,000,000	\$2,640,000	\$7,360,000	\$0	\$7,380,000	\$4,936,595	\$12,316,595	\$4,956,595	1.00	1.67	15.34%
Schroder Adveq Europe V, L.P.	2012	\$9,128,848	\$937,889	\$8,190,959	\$0	\$5,734,903	\$7,040,872	\$12,775,775	\$4,584,816	0.70	1.56	10.93%
Total 2012		\$19,128,848	\$3,577,889	\$15,550,959	\$0	\$13,114,903	\$11,977,467	\$25,092,370	\$9,541,411	0.84	1.61	12.86%
2013												
Aberdeen U.S. Private Equity V, L.P.	2013	\$15,000,000	\$0	\$15,000,000	\$7,648	\$11,712,498	\$16,496,833	\$28,209,331	\$13,201,683	0.78	1.88	18.30%
HarbourVest 2013 Direct Fund, L.P.	2013	\$15,000,000	\$484,349	\$14,515,651	\$108,146	\$20,392,936	\$9,622,955	\$30,015,891	\$15,392,094	1.39	2.05	19.70%
Total 2013		\$30,000,000	\$484,349	\$29,515,651	\$115,794	\$32,105,434	\$26,119,788	\$58,225,222	\$28,593,777	1.08	1.96	19.05%
2014												
Aberdeen U.S. Private Equity VI, L.P.	2014	\$15,000,000	\$975,000	\$14,025,000	\$0	\$7,245,378	\$17,938,156	\$25,183,534	\$11,158,534	0.52	1.80	21.38%
Crown Asia-Pacific Private Equity III PLC	2014	\$5,000,000	\$780,000	\$4,220,000	\$0	\$1,010,000	\$8,353,795	\$9,363,795	\$5,143,795	0.24	2.22	25.10%
Greenspring Global Partners VI, L.P.	2014	\$7,500,000	\$750,000	\$6,750,000	\$1,152	\$4,200,000	\$21,164,996	\$25,364,996	\$18,613,844	0.62	3.76	30.41%
Greenspring Secondaries Fund I, L.P.	2014	\$2,500,000	\$100,000	\$2,400,000	-\$903	\$6,112,913	\$6,512,077	\$12,624,990	\$10,225,893	2.55	5.26	39.42%
Total 2014		\$30,000,000	\$2,605,000	\$27,395,000	\$249	\$18,568,291	\$53,969,024	\$72,537,315	\$45,142,066	0.68	2.65	28.55%
2015												
57 Stars Global Opportunity Fund 4 (US), L.P.	2015	\$7,000,000	\$1,630,168	\$5,369,832	-\$15,283	\$0	\$8,812,002	\$8,812,002	\$3,457,453	0.00	1.65	14.58%
NB Crossroads Fund XXI, L.P.	2015	\$15,000,000	\$5,250,000	\$9,750,000	\$0	\$1,168,597	\$18,125,128	\$19,293,725	\$9,543,725	0.12	1.98	20.99%
Schroder Adveq Europe VI, L.P.	2015	\$6,858,360	\$1,621,914	\$5,236,446	\$0	\$883,378	\$7,536,434	\$8,419,812	\$3,183,366	0.17	1.61	17.42%
Total 2015		\$28,858,360	\$8,502,082	\$20,356,278	-\$15,283	\$2,051,975	\$34,473,564	\$36,525,539	\$16,184,544	0.10	1.80	18.49%



# **ANALYSIS BY VINTAGE YEAR - PRIVATE EQUITY**

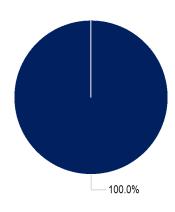
Investments		Commitme	ents	Contribu	itions & Distribu	tions		Valuations		Р	erforma	ince
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
2017												
Aberdeen U.S. Private Equity VII, L.P.	2017	\$5,000,000	\$1,600,000	\$3,400,000	\$3,297	\$1,078,589	\$5,484,857	\$6,563,446	\$3,160,149	0.32	1.93	38.37%
Greenspring Global Partners VIII-B, L.P.	2017	\$5,000,000	\$750,000	\$4,250,000	\$0	\$0	\$6,901,124	\$6,901,124	\$2,651,124	0.00	1.62	26.46%
HarbourVest Partners Co-Investment Fund IV, L.P.	2017	\$9,425,858	\$1,964,610	\$7,461,248	\$0	\$2,178,001	\$12,730,401	\$14,908,402	\$7,447,154	0.29	2.00	22.37%
Total 2017		\$19,425,858	\$4,314,610	\$15,111,248	\$3,297	\$3,256,590	\$25,116,382	\$28,372,972	\$13,258,427	0.22	1.88	25.42%
2018												
HarbourVest Partners Co-Investment Fund IV AIV, L.P.	2018	\$574,142	\$312,689	\$261,453	\$0	\$67,347	\$873,356	\$940,703	\$679,250	0.26	3.60	55.93%
Schroder Adveq Europe Direct II S.C.S.	2018	\$1,022,921	\$423,108	\$599,813	\$0	\$0	\$1,171,080	\$1,171,080	\$571,267	0.00	1.95	44.79%
Schroder Adveq Europe VII S.C.S.	2018	\$4,039,045	\$2,714,943	\$1,324,102	\$0	\$0	\$2,236,395	\$2,236,395	\$912,293	0.00	1.69	36.01%
Total 2018		\$5,636,108	\$3,450,740	\$2,185,368	\$0	\$67,347	\$4,280,830	\$4,348,177	\$2,162,810	0.03	1.99	43.39%
2019												
Greenspring Global Partners IX-B, L.P.	2019	\$7,250,000	\$3,190,000	\$4,060,000	\$0	\$152,308	\$6,379,717	\$6,532,025	\$2,472,025	0.04	1.61	42.29%
NB Crossroads Fund XXII, L.P.	2019	\$5,000,000	\$2,300,000	\$2,700,000	\$0	\$0	\$3,811,812	\$3,811,812	\$1,111,812	0.00	1.41	23.03%
Total 2019		\$12,250,000	\$5,490,000	\$6,760,000	\$0	\$152,308	\$10,191,529	\$10,343,837	\$3,583,837	0.02	1.53	33.51%
2020												
Greenspring Diversity I, L.P.	2020	\$2,500,000	\$2,375,000	\$125,000	\$0	\$0	\$202,857	\$202,857	\$77,857	0.00	1.62	
Greenspring Global Partners X, L.P.	2020	\$7,500,000	\$6,525,000	\$975,000	\$0	\$0	\$1,053,596	\$1,053,596	\$78,596	0.00	1.08	12.74%
Greenspring Opportunities VI, L.P.	2020	\$7,000,000	\$3,920,000	\$3,080,000	\$0	\$0	\$4,036,503	\$4,036,503	\$956,503	0.00	1.31	42.58%
Vista Foundation Fund IV, L.P.	2020	\$10,000,000	\$8,916,920	\$1,083,080	\$0	\$0	\$845,378	\$845,378	-\$237,702	0.00	0.78	-58.55%
Total 2020		\$27,000,000	\$21,736,920	\$5,263,080	\$0	\$0	\$6,138,334	\$6,138,334	\$875,254	0.00	1.17	31.76%
Total		\$210,299,174	\$53,365,590	\$156,933,583	\$124,158	\$116,215,739	\$204,079,926	\$320,295,665	\$163,237,924	0.74	2.04	18.65%



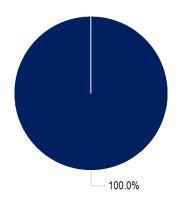
# **ANALYSIS BY STRATEGY - REAL ESTATE**

#### **Private Markets Valuation by Strategy**

#### **Private Markets Fund Exposure by Strategy**







Opportunistic

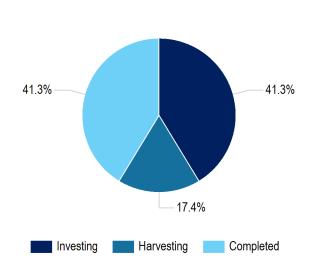
Investments	Com	nmitments		Contribu	tions & Distribut	ions		Valuatio	ons		Ре	erformand	ce
Investment Strategy	Commitment	Unfunded Commitment	Call Ratio	Cumulative Contributions	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Fund Exposure	DPI	TVPI	IRR
Total Non Core	\$15,000,000	\$0	1.00	\$15,000,000	\$0	\$15,046,743	\$0	\$15,046,743	\$46,743	\$0	1.00	1.00	0.04%
<b>Total Opportunistic</b>	\$49,743,987	\$12,218,289	0.75	\$37,525,698	\$151,453	\$18,808,364	\$29,641,032	\$48,449,396	\$10,772,245	\$41,859,321	0.50	1.29	6.56%
Total Value Add	\$20,000,000	\$0	1.00	\$20,000,000	\$0	\$31,187,641	\$0	\$31,187,641	\$11,187,641	\$0	1.56	1.56	9.22%
Total	\$84,743,987	\$12,218,289	0.86	\$72,525,698	\$151,453	\$65,042,748	\$29,641,032	\$94,683,780	\$22,006,630	\$41,859,321	0.89	1.30	5.35%



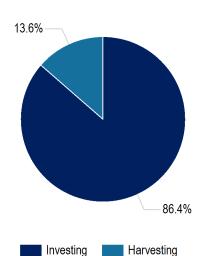
### **ANALYSIS BY LIFECYCLE - REAL ESTATE**



#### **Unfunded Commitment by Lifecycle**



\$84,743,987



Investing

Investments	Com	mitments		Contr	ibutions & Distribut	ions
Lifecycle	Commitment	Unfunded Commitment	Call Ratio	Cumulative Contributions	Additional Fees	Cumulative Distributions
Total Investing	\$35,000,000	\$10,555,589	0.70	\$24,444,411	\$85,580	\$5,929,738
Total Harvesting	\$14,743,987	\$1,662,700	0.89	\$13,081,287	\$65,873	\$12,878,626
Total Completed	\$35,000,000	\$0	1.00	\$35,000,000	\$0	\$46,234,384

\$12,218,289

0.86

\$72,525,698

\$151,453

		Valuations		F	Performanc	е
Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
\$5,929,738	\$26,714,816	\$32,644,554	\$8,114,563	0.24	1.33	8.61%
\$12,878,626	\$2,926,216	\$15,804,842	\$2,657,682	0.98	1.20	4.07%
\$46,234,384	\$0	\$46,234,384	\$11,234,384	1.32	1.32	4.75%
\$65,042,748	\$29,641,032	\$94,683,780	\$22,006,630	0.89	1.30	5.35%



Total

# **ANALYSIS BY LIFECYCLE - REAL ESTATE**

Investments		Commitme	ents	Contribu	itions & Distribut	tions		Valuations		Р	erforma	nce
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Investing												
Partners Group Global Real Estate 2014 (USD) A, L.P. Inc.	2014	\$25,000,000	\$5,715,342	\$19,284,658	\$35,548	\$5,927,238	\$20,582,267	\$26,509,505	\$7,189,299	0.31	1.37	8.51%
Partners Group Real Estate Secondary 2017 (USD) A, L.P.	2018	\$10,000,000	\$4,840,247	\$5,159,753	\$50,032	\$2,500	\$6,132,549	\$6,135,049	\$925,264	0.00	1.18	9.56%
Total Investing		\$35,000,000	\$10,555,589	\$24,444,411	\$85,580	\$5,929,738	\$26,714,816	\$32,644,554	\$8,114,563	0.24	1.33	8.61%
Harvesting												
Partners Group Global Real Estate 2011, L.P.	2011	\$14,743,987	\$1,662,700	\$13,081,287	\$65,873	\$12,878,626	\$2,926,216	\$15,804,842	\$2,657,682	0.98	1.20	4.07%
Total Harvesting		\$14,743,987	\$1,662,700	\$13,081,287	\$65,873	\$12,878,626	\$2,926,216	\$15,804,842	\$2,657,682	0.98	1.20	4.07%
Completed												
TA Associates Realty Fund IX, L.P.	2008	\$10,000,000	\$0	\$10,000,000	\$0	\$16,015,604	\$0	\$16,015,604	\$6,015,604	1.60	1.60	10.42%
TA Associates Realty Fund VI, L.P.	2002	\$10,000,000	\$0	\$10,000,000	\$0	\$15,172,037	\$0	\$15,172,037	\$5,172,037	1.52	1.52	8.55%
TA Associates Realty Fund VII, L.P.	2005	\$5,000,000	\$0	\$5,000,000	\$0	\$5,119,609	\$0	\$5,119,609	\$119,609	1.02	1.02	0.34%
TA Associates Realty Fund VIII, L.P.	2006	\$10,000,000	\$0	\$10,000,000	\$0	\$9,927,134	\$0	\$9,927,134	-\$72,866	0.99	0.99	-0.08%
Total Completed		\$35,000,000	\$0	\$35,000,000	\$0	\$46,234,384	\$0	\$46,234,384	\$11,234,384	1.32	1.32	4.75%
Total		\$84,743,987	\$12,218,289	\$72,525,698	\$151,453	\$65,042,748	\$29,641,032	\$94,683,780	\$22,006,630	0.89	1.30	5.35%

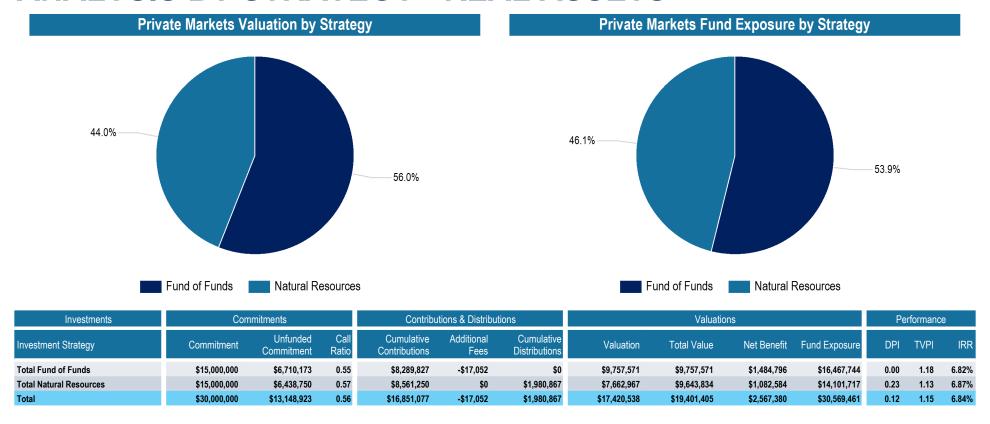


# **ANALYSIS BY VINTAGE YEAR - REAL ESTATE**

Investments		Commitme	ents	Contribu	itions & Distribu	tions		Valuations		Р	erforma	nce
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
2002												
TA Associates Realty Fund VI, L.P.	2002	\$10,000,000	\$0	\$10,000,000	\$0	\$15,172,037	\$0	\$15,172,037	\$5,172,037	1.52	1.52	8.55%
Total 2002		\$10,000,000	\$0	\$10,000,000	\$0	\$15,172,037	\$0	\$15,172,037	\$5,172,037	1.52	1.52	8.55%
2005												
TA Associates Realty Fund VII, L.P.	2005	\$5,000,000	\$0	\$5,000,000	\$0	\$5,119,609	\$0	\$5,119,609	\$119,609	1.02	1.02	0.34%
Total 2005		\$5,000,000	\$0	\$5,000,000	\$0	\$5,119,609	\$0	\$5,119,609	\$119,609	1.02	1.02	0.34%
2006												
TA Associates Realty Fund VIII, L.P.	2006	\$10,000,000	\$0	\$10,000,000	\$0	\$9,927,134	\$0	\$9,927,134	-\$72,866	0.99	0.99	-0.08%
Total 2006		\$10,000,000	\$0	\$10,000,000	\$0	\$9,927,134	\$0	\$9,927,134	-\$72,866	0.99	0.99	-0.08%
2008												
TA Associates Realty Fund IX, L.P.	2008	\$10,000,000	\$0	\$10,000,000	\$0	\$16,015,604	\$0	\$16,015,604	\$6,015,604	1.60	1.60	10.42%
Total 2008		\$10,000,000	\$0	\$10,000,000	\$0	\$16,015,604	\$0	\$16,015,604	\$6,015,604	1.60	1.60	10.42%
2011												
Partners Group Global Real Estate 2011, L.P.	2011	\$14,743,987	\$1,662,700	\$13,081,287	\$65,873	\$12,878,626	\$2,926,216	\$15,804,842	\$2,657,682	0.98	1.20	4.07%
Total 2011		\$14,743,987	\$1,662,700	\$13,081,287	\$65,873	\$12,878,626	\$2,926,216	\$15,804,842	\$2,657,682	0.98	1.20	4.07%
2014												
Partners Group Global Real Estate 2014 (USD) A, L.P. Inc.	2014	\$25,000,000	\$5,715,342	\$19,284,658	\$35,548	\$5,927,238	\$20,582,267	\$26,509,505	\$7,189,299	0.31	1.37	8.51%
Total 2014		\$25,000,000	\$5,715,342	\$19,284,658	\$35,548	\$5,927,238	\$20,582,267	\$26,509,505	\$7,189,299	0.31	1.37	8.51%
2018												
Partners Group Real Estate Secondary 2017 (USD) A, L.P.	2018	\$10,000,000	\$4,840,247	\$5,159,753	\$50,032	\$2,500	\$6,132,549	\$6,135,049	\$925,264	0.00	1.18	9.56%
Total 2018		\$10,000,000	\$4,840,247	\$5,159,753	\$50,032	\$2,500	\$6,132,549	\$6,135,049	\$925,264	0.00	1.18	9.56%
Total		\$84,743,987	\$12,218,289	\$72,525,698	\$151,453	\$65,042,748	\$29,641,032	\$94,683,780	\$22,006,630	0.89	1.30	5.35%



### **ANALYSIS BY STRATEGY - REAL ASSETS**

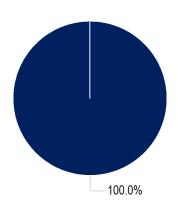


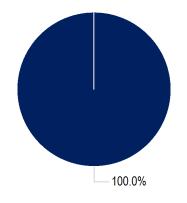


# **ANALYSIS BY LIFECYCLE - REAL ASSETS**



#### **Unfunded Commitment by Lifecycle**





Investing

Investing

Investments	Com	Commitments			butions & Distribution	ns		Valuations			Performanc	e
Lifecycle	Commitment	Unfunded Commitment	Call Ratio	Cumulative Contributions	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Total Investing	\$30,000,000	\$13,148,923	0.56	\$16,851,077	-\$17,052	\$1,980,867	\$17,420,538	\$19,401,405	\$2,567,380	0.12	1.15	6.84%
Total	\$30,000,000	\$13,148,923	0.56	\$16,851,077	-\$17,052	\$1,980,867	\$17,420,538	\$19,401,405	\$2,567,380	0.12	1.15	6.84%



# **ANALYSIS BY LIFECYCLE - REAL ASSETS**

Investments		Commitme	ents	Contribu	tions & Distribut	ions		Valuations		Р	erforma	nce
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Investing												
Aether Real Assets IV, L.P.	2015	\$7,500,000	\$1,473,499	\$6,026,501	-\$906	\$0	\$6,748,209	\$6,748,209	\$722,614	0.00	1.12	4.09%
Aether Real Assets V, L.P.	2018	\$7,500,000	\$5,236,674	\$2,263,326	-\$16,146	\$0	\$3,009,362	\$3,009,362	\$762,182	0.00	1.34	20.24%
Commonfund Capital Natural Resources Partners XI, L.P.	2018	\$7,500,000	\$4,837,500	\$2,662,500	\$0	\$0	\$2,473,357	\$2,473,357	-\$189,143	0.00	0.93	-6.66%
Commonfund Capital Natural Resources Partners X, L.P.	2015	\$7,500,000	\$1,601,250	\$5,898,750	\$0	\$1,980,867	\$5,189,610	\$7,170,477	\$1,271,727	0.34	1.22	9.58%
Total Investing		\$30,000,000	\$13,148,923	\$16,851,077	-\$17,052	\$1,980,867	\$17,420,538	\$19,401,405	\$2,567,380	0.12	1.15	6.84%
Total		\$30,000,000	\$13,148,923	\$16,851,077	-\$17,052	\$1,980,867	\$17,420,538	\$19,401,405	\$2,567,380	0.12	1.15	6.84%



# **ANALYSIS BY VINTAGE YEAR - REAL ASSETS**

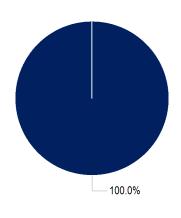
Investments		Commitme	ents	Contribu	ıtions & Distribui	tions		Valuations		Р	erforma	nce
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
2015												
Aether Real Assets IV, L.P.	2015	\$7,500,000	\$1,473,499	\$6,026,501	-\$906	\$0	\$6,748,209	\$6,748,209	\$722,614	0.00	1.12	4.09%
Commonfund Capital Natural Resources Partners X, L.P.	2015	\$7,500,000	\$1,601,250	\$5,898,750	\$0	\$1,980,867	\$5,189,610	\$7,170,477	\$1,271,727	0.34	1.22	9.58%
Total 2015		\$15,000,000	\$3,074,749	\$11,925,251	-\$906	\$1,980,867	\$11,937,819	\$13,918,686	\$1,994,341	0.17	1.17	6.45%
2018												
Aether Real Assets V, L.P.	2018	\$7,500,000	\$5,236,674	\$2,263,326	-\$16,146	\$0	\$3,009,362	\$3,009,362	\$762,182	0.00	1.34	20.24%
Commonfund Capital Natural Resources Partners XI, L.P.	2018	\$7,500,000	\$4,837,500	\$2,662,500	\$0	\$0	\$2,473,357	\$2,473,357	-\$189,143	0.00	0.93	-6.66%
Total 2018		\$15,000,000	\$10,074,174	\$4,925,826	-\$16,146	\$0	\$5,482,719	\$5,482,719	\$573,039	0.00	1.12	8.84%
Total		\$30,000,000	\$13,148,923	\$16,851,077	-\$17,052	\$1,980,867	\$17,420,538	\$19,401,405	\$2,567,380	0.12	1.15	6.84%

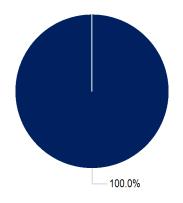


# **ANALYSIS BY STRATEGY - PRIVATE DEBT**

#### **Private Markets Valuation by Strategy**

#### **Private Markets Fund Exposure by Strategy**





Distressed

Distressed

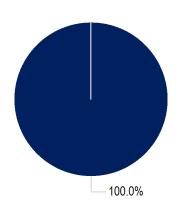
	Investments	Com	Commitments			tions & Distribut	tions		Valuatio	ns		Pe	rformano	e
In	vestment Strategy	Commitment	Unfunded Commitment	Call Ratio	Cumulative Contributions	Additional Fees	Cumulative Distributions	\/alijation	Total Value	Net Benefit	Fund Exposure	DPI	TVPI	IRR
To	otal Distressed	\$25,000,000	\$22,500,000	0.10	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	\$25,000,000	0.00	1.00	-0.22%
To	otal	\$25,000,000	\$22,500,000	0.10	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	\$25,000,000	0.00	1.00	-0.22%

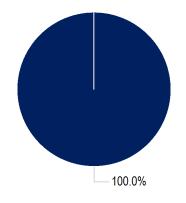


# **ANALYSIS BY LIFECYCLE - PRIVATE DEBT**



#### **Unfunded Commitment by Lifecycle**





Investing

Investing

Investments	Co	Commitments			ibutions & Distributio	ons		Valuations			Performand	ce
Lifecycle	Commitment	Unfunded Commitment	Call Ratio	Cumulative Contributions	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Total Investing	\$25,000,000	\$22,500,000	0.10	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	0.00	1.00	-0.22%
Total	\$25,000,000	\$22,500,000	0.10	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	0.00	1.00	-0.22%



# **ANALYSIS BY LIFECYCLE - PRIVATE DEBT**

Investments Commitments		ments Contributions & Distributions			Valuations				Performance			
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR
Investing												
CVI Credit Value Fund A V, L.P.	2020	\$25,000,000	\$22,500,000	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	0.00	1.00	-0.22%
Total Investing		\$25,000,000	\$22,500,000	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	0.00	1.00	-0.22%
Total		\$25,000,000	\$22,500,000	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	0.00	1.00	-0.22%



# **ANALYSIS BY VINTAGE YEAR - PRIVATE DEBT**

Investments	Investments Commitments		ents	Contribu	ıtions & Distribut	ions	Valuations				Performance		
Investment Name	Vintage Year	Commitment	Unfunded Commitment	Paid In Capital	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	DPI	TVPI	IRR	
2020													
CVI Credit Value Fund A V, L.P.	2020	\$25,000,000	\$22,500,000	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	0.00	1.00	-0.22%	
Total 2020		\$25,000,000	\$22,500,000	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	0.00	1.00	-0.22%	
Total		\$25,000,000	\$22,500,000	\$2,500,000	\$4,167	\$0	\$2,500,000	\$2,500,000	-\$4,167	0.00	1.00	-0.22%	





# TRAILING ANNUAL INDEX PERFORMANCE

<b>Equity</b>												
	Aug-21	YTD	1 YR	3 YR	5 YR	10 YR						
MSCI ACWI	2.5%	15.9%	28.6%	14.3%	14.3%	11.3%						
S&P 500	3.0%	21.6%	31.2%	18.1%	18.0%	16.3%						
Russell 1000	2.9%	20.7%	32.3%	18.4%	18.2%	16.4%						
Russell 2000	2.2%	15.8%	47.1%	10.7%	14.4%	13.6%						
Russell 2500	2.3%	17.5%	45.9%	13.1%	15.1%	14.3%						
MSCI EAFE	1.8%	11.6%	26.1%	9.0%	9.7%	7.3%						
MSCI EM	2.6%	2.8%	21.1%	9.9%	10.4%	4.9%						

Credit											
	Aug-21	YTD	1 YR	3 YR	5 YR	10 YR					
BBG Global Agg	-0.4%	-2.3%	0.5%	4.6%	2.5%	1.8%					
BBG US Agg	-0.2%	-0.7%	-0.1%	5.4%	3.1%	3.2%					
BBG Credit	-0.2%	-0.2%	2.3%	7.4%	4.5%	4.7%					
BBG US HY	0.5%	4.5%	10.1%	7.1%	6.7%	7.1%					
BBG Muni	-0.4%	1.5%	3.4%	5.1%	3.3%	4.1%					
BBG Muni HY	-0.2%	7.2%	12.2%	7.5%	6.2%	6.9%					
BBG TIPS	-0.2%	4.3%	5.6%	7.3%	4.6%	3.2%					
BBG 20+ STRIPS	-0.2%	-6.6%	-9.7%	11.9%	4.3%	8.5%					
BBG Long Treasuries	-0.2%	-4.8%	-7.3%	9.2%	3.6%	5.7%					
BBG Long Credit	-0.4%	-0.7%	3.7%	10.7%	6.3%	7.1%					
BBG Govt/Credit 1-3 Yr	0.0%	0.2%	0.4%	2.9%	1.9%	1.5%					
JPM EMBI Glob Div	1.0%	0.7%	4.6%	6.9%	4.4%	5.6%					
JPM GBI-EM Glob Div	0.8%	-3.0%	4.1%	5.8%	3.2%	0.4%					

Real Assets											
	Aug-21	YTD	1 YR	3 YR	5 YR	10 YR					
BBG Commodity	-0.3%	23.0%	31.0%	5.8%	4.2%	-4.7%					
Alerian Midstream Index	-1.6%	33.4%	43.4%	1.9%	2.6%	-					
FTSE NAREIT Equity REITs	1.8%	30.2%	40.5%	11.1%	7.6%	10.6%					



Source: S&P, MSCI, Russell, Bloomberg, JPM, Alerian, FTSE, FactSet

# **TOTAL FUND PERFORMANCE SUMMARY (GROSS)**

							Ending August 31, 2021						
	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	Fiscal YTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date	
Total Fund Composite	1,452,733,855	100.0	100.0	1.4	1.7	11.8	22.0	11.8	11.4	9.6	7.9	Apr-97	
Policy Index				1.2	1.4	9.5	18.8	10.6	9.7	8.7	7.7	Apr-97	
Allocation Index				1.2	1.6	10.1	20.7					Apr-97	
Total US Equity Composite	429,632,916	29.6	27.5	2.9	3.9	19.7	33.0	16.0	18.3	16.6	9.8	Jul-97	
Russell 3000				2.9	4.6	20.4	33.0	17.9	18.0	16.2	9.2	Jul-97	
US Equity Allocation Index				2.9	4.4	19.6	33.0	17.2	17.7	16.0		Jul-97	
Total International Equity	248,834,354	17.1	17.5	2.7	1.4	11.3	27.7	12.6	12.3	7.7	5.7	Jul-97	
MSCI ACWI ex USA				1.9	0.2	9.4	24.9	9.4	9.9	6.6	5.3	Jul-97	
Total Fixed Income Composite	388,187,651	26.7	23.0	0.3	1.1	0.6	3.6	6.7	4.5	4.4	5.5	Jul-97	
Fixed Income Policy Index				-0.2	0.9	-0.7	-0.1	5.4	3.1	3.2	5.1	Jul-97	
Total Real Assets Composite	46,289,571	3.2	6.0	0.0	0.0	5.5	11.9	0.8	5.5	6.2	6.5	Jul-03	
NCREIF Property Index 1 Qtr. Lag				0.0	0.0	2.9	2.6	4.9	5.8	8.8	8.2	Jul-03	
Cash Composite	12,958,287	0.9		0.0	0.0	0.0	0.0	1.0	8.0	0.4	1.2	Dec-03	
91 Day T-Bills				0.0	0.0	0.0	0.0	1.1	1.1	0.6	1.2	Dec-03	
Hedge Fund Composite	130,563,326	9.0	8.0	0.3	0.6	5.6	11.0	6.5	6.1	5.4	5.3	Jan-11	
HFRI FOF: Conservative Index				0.5	0.3	6.1	12.3	5.3	4.8	3.7	3.3	Jan-11	
Private Equity Composite	192,517,749	13.3	13.0	0.0	0.0	30.2	53.7	23.5	21.1	16.4	15.1	Jul-08	
C A US All PE (1 Qtr Lag)				0.0	0.0	22.0	47.4	17.6	17.2	14.3	11.8	Jul-08	
Private Debt	3,750,000	0.3	5.0	0.0	0.0	0.0	0.0				0.0	Jun-20	
S&P/LSTA Leveraged Loan TR				0.0	0.0	3.8	8.4	4.2	4.6	4.9	10.3	Jun-20	

Fiscal year end 6/30.

All history prior to 3/1/2019 was provided by AndCo.



# **TOTAL FUND PERFORMANCE DETAIL (GROSS)**

									Ending August 31, 2021				
	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	Fiscal YTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date	
Total Fund Composite	1,452,733,855	100.0	100.0	1.4	1.8	11.8	22.0	11.8	11.4	9.6	7.9	Apr-97	
Policy Index				1.2	1.4	9.5	18.8	10.6	9.7	8.7	7.7	Apr-97	
Allocation Index				1.2	1.6	10.1	20.7					Apr-97	
Total Equity Composite	678,467,270	46.7	45.0	2.8	3.0	16.4	31.0	14.6	15.7	12.8	8.4	Apr-00	
MSCI ACWI IMI				2.5	3.0	16.1	30.1	14.0	14.1	11.3	5.9	Apr-00	
Total US Equity Composite	429,632,916	29.6	27.5	2.8	3.9	19.7	33.1	16.0	18.3	16.6	9.8	Jul-97	
Russell 3000				2.9	4.6	20.4	33.0	17.9	18.0	16.2	9.2	Jul-97	
US Equity Allocation Index				2.9	4.4	19.6	33.0	17.2	17.7	16.0		Jul-97	
Large Cap Composite	357,296,728	24.6	22.0	3.0	4.6	21.8	33.3	17.1	18.3	16.7	10.0	Apr-01	
Russell 1000				2.9	5.0	20.7	32.3	18.4	18.2	16.4	9.3	Apr-01	
LSV Asset Management SMA	101,237,812	7.0		2.2	1.3	24.6	45.9	9.9	12.5	14.3	10.2	May-00	
Russell 1000 Value				2.0	2.8	20.3	36.4	11.5	11.7	13.0	7.7	May-00	
Westfield Capital Management SMA	133,687,496	9.2		3.7	6.4	21.1	28.9	23.5	24.2	19.1	19.0	Jul-10	
Russell 1000 Growth				3.7	7.2	21.1	28.5	24.6	24.4	19.4	19.8	Jul-10	
BlackRock Equity Index Non-Lendable Fund	122,371,420	8.4		3.0	5.5	21.6	31.2				25.3	Dec-19	
S&P 500				3.0	5.5	21.6	31.2	18.1	18.0	16.3	25.2	Dec-19	
Small/Mid Cap Composite	72,336,187	5.0	5.5	1.7	0.4	9.5	31.9	12.0	17.8	16.4	12.8	Apr-93	
Russell 2500				2.3	0.5	17.5	45.9	13.1	15.1	14.3	11.1	Apr-93	
William Blair SMA	26,867,673	1.8		1.7	-0.9	7.7	29.0	15.4	20.3	17.8	13.6	Jun-06	
Russell 2500 Growth				2.5	0.3	9.0	36.1	16.9	19.2	16.3	11.8	Jun-06	
William Blair S/C Value I	24,613,673	1.7		1.8	-0.8	24.8	54.5	8.3	13.5	14.0	12.2	Apr-93	
Russell 2000 Value				2.7	-1.0	25.4	59.5	8.4	11.7	12.1	10.3	Apr-93	
Brown Capital Small Company Strategy SMA	20,854,841	1.4		1.6	3.2	0.0	18.7	13.1	21.2	19.9	19.5	Aug-11	
Russell 2000 Growth				1.8	-1.9	6.9	35.6	12.3	16.6	14.8	13.6	Aug-11	

ICM Small Company - ICSCX was renamed to William Blair S/C Value I in 7/2021.



# **Howard County Retirement Plans**

# **TOTAL FUND PERFORMANCE DETAIL (GROSS)**

							Ending August 31, 2021				021	
	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	Fiscal YTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total International Equity	248,834,354	17.1	17.5	2.7	1.4	11.3	27.7	12.6	12.3	7.7	5.7	Jul-97
MSCI ACWI ex USA				1.9	0.2	9.4	24.9	9.4	9.9	6.6	5.3	Jul-97
International Developed Markets Composite	157,655,087	10.9	11.0	2.1	2.5	12.4	28.6	11.7	11.5	8.6	5.2	Mar-08
MSCI EAFE				1.8	2.5	11.6	26.1	9.0	9.7	7.3	3.9	Mar-08
Mondrian International Equity Fund, L.P.	77,926,000	5.4		1.4	0.4	13.6	28.3	6.2	7.3	6.5	2.8	Dec-07
MSCI EAFE				1.8	2.5	11.6	26.1	9.0	9.7	7.3	3.0	Dec-07
Baillie Gifford EAFE Pure K - BGPKX	79,729,087	5.5		2.8	4.7	11.3	28.8	16.5			15.7	May-18
MSCI EAFE				1.8	2.5	11.6	26.1	9.0	9.7	7.3	7.1	May-18
International Emerging Markets Composite	91,179,267	6.3	6.5	3.8	-0.4	9.5	26.1	14.0	13.8	5.9	7.5	Feb-06
MSCI Emerging Markets				2.6	-4.3	2.8	21.1	9.9	10.4	4.9	5.8	Feb-06
GQG Partners Emerging Markets Equity Fund	45,380,882	3.1		3.5	-1.5	2.9	17.2				21.5	Dec-18
MSCI Emerging Markets				2.6	-4.3	2.8	21.1	9.9	10.4	4.9	13.1	Dec-18
Arga Emerging Markets Equity Fund	45,798,385	3.2		4.1	8.0	16.8					16.8	Jan-21
MSCI Emerging Markets Value NR USD				2.8	-2.1	7.7	29.3	6.4	7.7	2.6	7.7	Jan-21
Total Fixed Income Composite	388,187,651	26.7	23.0	0.2	1.1	0.5	3.6	6.7	4.5	4.4	5.5	Jul-97
Bloomberg US Aggregate TR				-0.2	0.9	-0.7	-0.1	5.4	3.1	3.2	5.0	Jul-97
Core Fixed Income Composite	282,666,926	19.5	11.0	0.1	1.3	1.0	2.8	-			7.3	Mar-19
Bloomberg US Aggregate TR				-0.2	0.9	-0.7	-0.1	5.4	3.1	3.2	5.7	Mar-19
Dodge & Cox SMA	97,885,874	6.7		-0.2	0.9	0.3	2.7	6.8	4.7	4.7	4.9	May-10
Bloomberg US Aggregate TR				-0.2	0.9	-0.7	-0.1	5.4	3.1	3.2	3.6	May-10
PIMCO Total Return	103,177,824	7.1		0.5	1.5	0.9	2.4	6.6	4.3	4.0	4.4	May-10
Bloomberg US Aggregate TR				-0.2	0.9	-0.7	-0.1	5.4	3.1	3.2	3.6	May-10
Artisan High Income Trust	55,000,000	3.8										Sep-21
ICE BofA US HY Master II Constnd TR				0.6	0.9	4.6	10.3	6.8	6.5	6.9		Sep-21
State Street Global Advisors TIPS	26,603,227	1.8		-0.2	2.5	4.2	5.5	7.3	4.6	3.2	4.1	Nov-09
Bloomberg US TIPS TR				-0.2	2.5	4.3	5.6	7.3	4.6	3.2	4.2	Nov-09
Emerging Markets Debt Composite	56,025,361	3.9	4.0	1.0	0.4	-2.9	7.2	-	-		4.3	Mar-19
JP Morgan GBI EM Global Diversified TR USD				0.8	0.3	-3.0	4.1	5.8	3.2	0.4	3.2	Mar-19
Colchester Local Markets Debt Fund	56,025,361	3.9		1.0	0.4	-2.9	7.2	7.1	4.8		7.0	Oct-15
JP Morgan GBI EM Global Diversified TR USD				0.8	0.3	-3.0	4.1	5.8	3.2	0.4	5.1	Oct-15

Artisan High Income Trust funded in 08/2021, 1-month return will be shown after first full month of performance.



# **Howard County Retirement Plans**

# **TOTAL FUND PERFORMANCE DETAIL (GROSS)**

									Ending August 31, 2021			
	Market Value (\$)	% of Portfolio	Policy %	1 Mo (%)	Fiscal YTD (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Absolute Return Fixed Income	49,495,365	3.4	4.0	0.2	0.4	2.0	4.7				2.8	Mar-20
3-Month Libor Total Return USD				0.0	0.0	0.1	0.2	1.3	1.4	0.9	0.3	Mar-20
Payden Absolute Return Bond Fund PYAIX	49,495,365	3.4		0.2	0.4	2.0	4.7				2.8	Mar-20
3-Month Libor Total Return USD				0.0	0.0	0.1	0.2	1.3	1.4	0.9	0.3	Mar-20
High Yield			4.0									
Total Real Assets Composite	46,289,571	3.2	6.0	0.0	0.0	5.5	11.9	0.8	5.5	6.2	6.5	Jul-03
NCREIF Property Index 1 Qtr. Lag				0.0	0.0	2.9	2.6	4.9	5.8	8.8	8.2	Jul-03
Cash Composite	12,958,287	0.9		0.0	0.0	0.0	0.0	1.0	0.8	0.4	1.2	Dec-03
91 Day T-Bills				0.0	0.0	0.0	0.0	1.1	1.1	0.6	1.2	Dec-03
Hedge Fund Composite	130,563,326	9.0	8.0	0.9	1.2	6.2	11.7	6.7	6.2	5.5	5.3	Jan-11
HFRI FOF: Conservative Index				0.5	0.3	6.1	12.3	5.3	4.8	3.7	3.3	Jan-11
Magnitude International Class A Eligible	70,221,697	4.8		1.1	1.8	5.5	10.7	6.4	5.8	5.1	5.3	Jan-11
HFRI FOF: Conservative Index				0.5	0.3	6.1	12.3	5.3	4.8	3.7	3.3	Jan-11
Blackstone Partners Offshore Fund LTD	60,341,629	4.2		0.7	0.5	6.8	12.6	6.8	6.5	5.8	5.4	Mar-11
HFRI FOF: Conservative Index				0.5	0.3	6.1	12.3	5.3	4.8	3.7	3.2	Mar-11
Private Equity Composite	192,517,749	13.3	13.0	0.0	0.0	30.2	53.7	23.5	21.1	16.4	15.1	Jul-08
C A US All PE (1 Qtr Lag)				0.0	0.0	22.0	47.4	17.6	17.2	14.3	11.8	Jul-08
Private Debt	3,750,000	0.3	5.0	0.0	0.0	0.0	0.0				0.0	Jun-20
S&P/LSTA Leveraged Loan				0.0	0.0	3.8	8.4	4.2	4.6	4.9	10.3	Jun-20



# Howard County Retirement Plans TOTAL FUND PERFORMANCE DETAIL FOOTNOTES

Performance is preliminary for 8/31/2021.

Fiscal year ends 6/30.

Policy index consists of: 22% Russell 1000 / 5.5% Russell 2500 / 11% MSCI EAFE / 6.5% MSCI Emerging Markets / 9% Bloomberg US Aggregate TR / 2% Bloomberg US TIPS TR / 4% 3-Month Libor Total Return USD / 4% Bloomberg US High Yield TR / 4% JP Morgan GBI EM Global Diversified TR USD / 5% S&P/LSTA Leveraged Loan TR / 6.0% NCREIF Property Index 1 Qtr. Lag / 8% HFRI FOF: Conservative Index / 13% Private Equity Composite.

Allocation index consists of: Weighted index of underlying managers to their respective benchmark.

Fixed Income Policy index consists of: 100% Bloomberg US Aggregate TR.

Real Estate, Real Assets, Private Debt and Private Equity investments are valued as of 3/31/2021 and adjusted for capital calls and distributions through 8/31/2021.

All history prior to 3/1/2019 was provided by AndCo.





PROPRIETARY & CONFIDENTIAL

### 2021 SECOND QUARTER INSIGHTS FROM NEPC

#### **Private Wealth**

 Taking Stock: Business Owners, Here's How to Make Your Portfolio Work for You

#### **Healthcare**

 NEPC's 2021 Healthcare Operating Funds Survey Results

#### **Taft-Hartley**

 Taking Stock: Taft-Hartley/ Multi-Employer Pension Plans Await ARPA 2.0

#### **Defined Benefit**

- Taking Stock: NEPC Q1 2021
   Pension Monitor
- Taking Stock: NEPC April 2021
   Pension Monitor
- Taking Stock: NEPC May 2021
   Pension Monitor

#### **General Research**

- Quarterly Asset Class Review: Q1 2021
- Taking Stock: A Sneak Peek Into the 2021 NEPC (Virtual) Client Conference
- NEPC Market Outlook: Should Investors Be Bracing for a Tidal Wave of Inflation?
- Meeting You Where You Are: Client Input About the Future of Meetings
- 11th Annual Investment Manager
   Webinar Replay

### **Diversity, Equity, & Inclusion**

- <u>Using Investing to Bring DEI Goals</u>
   Within Reach
- NEPC's 2020 DEI Progress Report



# DIVERSITY, EQUITY AND INCLUSION AT NEPC

This quarter, NEPC published our first annual <u>Diversity</u>, <u>Equity and Inclusion</u> (<u>DEI</u>) <u>Progress Report</u>.
 We are happy to see that the Progress Report has sparked conversation, which you can read more about on <u>Institutional Investor</u> and <u>Banking Exchange</u>.





# **INVESTMENT MANAGER - DUE DILIGENCE KEY**

NEPC Due Diligence Status Key							
No Action		Informational items have surfaced; no action is recommended.					
Watch		Issues have surfaced to be concerned over; manager can participate in future searches, but current and prospective clients must be made aware of the issues.					
Hold		Serious issues have surfaced to be concerned over; manager cannot be in future searches unless a client specifically requests, but current and prospective clients must be made aware of the issues.					
Client Review		Very serious issues have surfaced with a manager; manager cannot be in future searches unless a client specifically requests. Current clients must be advised to review the manager.					
Terminate		We have lost all confidence in the product; manager would not be recommended for searches and clients would be discouraged from using. The manager cannot be in future searches unless a client specifically requests. Current clients must be advised to replace the manager.					
NEPC Due Diligence Rating Key							
A high conviction investment product. Product has a clear and economically-grounded investment thesis, and is manage by an investment team that is sufficiently resourced and incented to execute on the thesis.							
2	NEPC has a positive view of the strategy. Strategy has a compelling and sound investment thesis. The manager is sufficiently resourced and incented to execute on the thesis. Strengths outweigh the weaknesses, but the strategy does not meet all requirements for a 1 rating.						
3	A satisfactory investment product. The strategy lacks a compelling investment thesis, however there are no significant concerns around the manager's viability.						
4	The strategy may have an unclear or ambiguous investment thesis or the manager may lack the ability to execute on the stated thesis. The strategy likely has strengths and weaknesses and the weaknesses may outweigh the strengths.						
5	and/or the inve	lacks an investment thesis or NEPC has no confidence in the manager's ability to execute on the thesis, stment firm may not be viable. Serious issues have been identified with an investment manager or product. ns with a Terminate Due Diligence status for client-owned products.					
NR	Due diligence has not been sufficiently completed on the product or manager.						



# Of Portfolios/Observations<sup>1</sup> - The total number of data points that make up a specified universe

**Allocation Index**<sup>3</sup> - The allocation index measures the value added (or subtracted) to each portfolio by active management. It is calculated monthly: The portfolio asset allocation to each category from the prior month-end is multiplied by a specified market index.

Asset Allocation Effect<sup>2</sup> - Measures an investment manager's ability to effectively allocate their portfolio's assets to various sectors. The allocation effect determines whether the overweighting or underweighting of sectors relative to a benchmark contributes positively or negatively to the overall portfolio return. Positive allocation occurs when the portfolio is over weighted in a sector that outperforms the benchmark and underweighted in a sector that underperforms the benchmark. Negative allocation occurs when the portfolio is over weighted in a sector that underperforms the benchmark and under weighted in a sector that outperforms the benchmark.

Agency Bonds (Agencies)<sup>3</sup> - The full faith and credit of the United States government is normally not pledged to payment of principal and interest on the majority of government agencies issuing these bonds, with maturities of up to ten years. Their yields, therefore, are normally higher than government and their marketability is good, thereby qualifying them as a low risk-high liquidity type of investment. They are eligible as security for advances to the member banks by the Federal Reserve, which attests to their standing.

**Asset Backed Securities (ABS)**<sup>3</sup> - Bonds which are similar to mortgage-backed securities but are collateralized by assets other than mortgages; commonly backed by credit card receivables, auto loans, or other types of consumer financing.

Attribution<sup>3</sup> - Attribution is an analytical technique that allows us to evaluate the performance of the portfolio relative to the benchmark. A proper attribution tells us where value was added or subtracted as a result of the manager's decisions.

**Average Effective Maturity** - For a single bond, it is a measure of maturity that takes into account the possibility that a bond might be called back to the issuer.

For a portfolio of bonds, average effective maturity is the weighted average of the maturities of the underlying bonds. The measure is computed by weighing each bond's maturity by its market value with respect to the portfolio and the likelihood of any of the bonds being called. In a pool of mortgages, this would also account for the likelihood of prepayments on the mortgages.

**Batting Average<sup>1</sup>** - A measurement representing an investment manager's ability to meet or beat an index.

Formula: Divide the number of days (or months, quarters, etc.) in which the manager beats or matches the index by the total number of days (or months, quarters, etc.) in the period of question and multiply that factor by 100.

**Brinson Fachler (BF) Attribution<sup>1</sup>** - The BF methodology is a highly accepted industry standard for calculating the allocation, selection, and interaction effects within a portfolio that collectively explains a portfolio's underlying performance. The main advantage of the BF methodology is that rather than using the overall return of the benchmark, it goes a level deeper than BHB and measures whether the benchmark sector, country, etc. outperformed/or underperformed the overall benchmark.

Brinson Hood Beebower (BHB) Attribution<sup>1</sup> - The BHB methodology shows that excess return must be equal to the sum of all other factors (i.e., allocation effect, selection effect, interaction effect, etc.). The advantage to using the BHB methodology is that it is a highly accepted industry standard for calculating the allocation, selection, and interaction effects within a portfolio that collectively explains a portfolio's underlying performance.

Corporate Bond (Corp) <sup>4</sup> - A debt security issued by a corporation and sold to investors. The backing for the bond is usually the payment ability of the company, which is typically money to be earned from future operations. In some cases, the company's physical assets may be used as collateral for bonds.

**Correlation¹** - A range of statistical relationships between two or more random variables or observed data values. A correlation is a single number that describes the degree of relationship between variables.

Data Source: 'InvestorForce, 'Interaction Effect Performance Attribution, 'NEPC, LLC, 'Investopedia, 'Hedgeco.net



Coupon<sup>4</sup> – The interest rate stated on a bond when it is issued. The coupon is typically paid semiannually. This is also referred to as the "coupon rate" or "coupon percent rate."

Currency Effect<sup>1</sup> - Is the effect that changes in currency exchange rates over time affect excess performance.

**Derivative Instrument**<sup>3</sup> - A financial obligation that derives its precise value from the value of one or more other instruments (or assets) at the same point of time. For example, the relationship between the value of an S&P 500 futures contract (the derivative instrument in this case) is determined by the value of the S&P 500 Index and the value of a U.S. Treasury bill that matures at the expiration of the futures contract.

**Downside Deviation<sup>1</sup>** - Equals the standard deviation of negative return or the measure of downside risk focusing on the standard deviation of negative returns

#### Formula:

Annualized Standard Deviation (Fund Return - Average Fund Return) where average fund return is greater than individual fund returns, monthly or quarterly.

**Duration**<sup>3</sup> - Duration is a measure of interest rate risk. The greater the duration of a bond, or a portfolio of bonds, the greater its price volatility will be in response to a change in interest rates. A bond's duration is inversely related to interest rates and directly related to time to maturity.

Equity/Debt/Cash Ratio<sup>1</sup> – The percentage of an investment or portfolio that is in Equity, Debt, and/or Cash (i.e. A 7/89/4 ratio represents an investment that is made up of 7% Equity, 89% Debt, and 4% Cash).

Foreign Bond<sup>3</sup> - A bond that is issued in a domestic market by a foreign entity, in the domestic market's currency. A foreign bond is most often issued by a foreign firm to raise capital in a domestic market that would be most interested in purchasing the firm's debt. For foreign firms doing a large amount of business in the domestic market, issuing foreign bonds is a common practice.

Hard Hurdle<sup>5</sup> – is a hurdle rate that once beaten allows a fund manager to charge a performance fee on only the funds above the specified hurdle rate. High-Water Mark<sup>4</sup> - The highest peak in value that an investment fund/ account has reached. This term is often used in the context of fund manager compensation, which is performance based. Some performance-based fees only get paid when fund performance exceeds the high-water mark. The high-water mark ensures that the manager does not get paid large sums for poor performance.

**Hurdle Rate**<sup>4</sup> - The minimum rate of return on an investment required, in order for a manager to collect incentive fees from the investor, which is usually tied to a benchmark.

Interaction Effects<sup>2</sup> - The interaction effect measures the combined impact of an investment manager's selection and allocation decisions within a sector. For example, if an investment manager had superior selection and over weighted that particular sector, the interaction effect is positive. If an investment manager had superior selection, but underweighted that sector, the interaction effect is negative. In this case, the investment manager did not take advantage of the superior selection by allocating more assets to that sector. Since many investment managers consider the interaction effect to be part of the selection or the allocation, it is often combined with the either effect.

Median<sup>3</sup> - The value (rate of return, market sensitivity, etc.) that exceeds onehalf of the values in the population and that is exceeded by one-half of the values. The median has a percentile rank of 50.

Modified Duration<sup>3</sup> - The percentage change in the price of a fixed income security that results from a change in yield.

Mortgage Backed Securities (MBS)<sup>3</sup> - Bonds which are a general obligation of the issuing institution but are also collateralized by a pool of mortgages.

Municipal Bond (Muni) <sup>4</sup> - A debt security issued by a state, municipality or county to finance its capital expenditures.

**Net Investment Change<sup>1</sup>** – Is the change in an investment after accounting for all Net Cash Flows.

**Performance Fee<sup>4</sup>** - A payment made to a fund manager for generating positive returns. The performance fee is generally calculated as a percentage of investment profits, often both realized and unrealized.

Data Source: 1InvestorForce, 2Interaction Effect Performance Attribution, 3NEPC, LLC, 4Investopedia, 5Hedgeco.net



**Policy Index**<sup>3</sup> - A custom benchmark designed to indicate the returns that a passive investor would earn by consistently following the asset allocation targets set forth in this investment policy statement.

**Price to Book (P/B)**<sup>4</sup> - A ratio used to compare a stock's market value to its book value. It is calculated by dividing the current closing price of the stock by the latest quarter's book value per share, also known as the "price-equity ratio".

Price to Earnings (P/E)<sup>3</sup> - The weighted equity P/E is based on current price and trailing 12 months earnings per share (EPS).

Price to Sales (P/S)<sup>4</sup> - A ratio for valuing a stock relative to its own past performance, other companies, or the market itself. Price to sales is calculated by dividing a stock's current price by its revenue per share for the trailing 12 months.

Return on Equity (ROE)<sup>4</sup> - The amount of net income returned as a percentage of shareholders equity. Return on equity measures a corporation's profitability by revealing how much profit a company generates with the money shareholders have invested.

Selection (or Manager) Effect<sup>2</sup> - Measures the investment manager's ability to select securities within a given sector relative to a benchmark. The over or underperformance of the portfolio is weighted by the benchmark weight, therefore, selection is not affected by the manager's allocation to the sector. The weight of the sector in the portfolio determines the size of the effect—the larger the sector, the larger the effect is, positive or negative.

Soft Hurdle rate<sup>5</sup> – is a hurdle rate that once beaten allows a fund manager to charge a performance fee based on the entire annualized return.

**Tiered Fee<sup>1</sup>** – A fee structure that is paid to fund managers based on the size of the investment (i.e. 1.00% fee on the first \$10M invested, 0.90% on the next \$10M, and 0.80% on the remaining balance).

**Total Effects<sup>2</sup>** - The active management (total) effect is the sum of the selection, allocation, and interaction effects. It is also the difference between the total portfolio return and the total benchmark return. You can use the active management effect to determine the amount the investment manager has added to a portfolio's return.

**Total Return<sup>1</sup>** - The actual rate of return of an investment over a specified time period. Total return includes interest, capital gains, dividends, and distributions realized over a defined time period.

Universe3 - The list of all assets eligible for inclusion in a portfolio.

Upside Deviation - Standard Deviation of Positive Returns

**Weighted Avg. Market Cap.** <sup>4</sup> - A stock market index weighted by the market capitalization of each stock in the index. In such a weighting scheme, larger companies account for a greater portion of the index. Most indexes are constructed in this manner, with the best example being the S&P 500.

Yield (%)<sup>3</sup> - The current yield of a security is the current indicated annual dividend rate divided by current price.

Yield to Maturity<sup>3</sup> -The discount rate that equates the present value of cash flows, both principal and interest, to market price.

Data Source: <sup>1</sup>InvestorForce, <sup>2</sup>Interaction Effect Performance Attribution, <sup>3</sup>NEPC, LLC, <sup>4</sup>Investopedia, <sup>5</sup>Hedgeco.net



Alpha - Measures the relationship between the fund performance and the performance of another fund or benchmark index and equals the excess return while the other fund or benchmark index is zero.

**Alpha Jensen** - The average return on a portfolio over and above that predicted by the capital asset pricing model (CAPM), given the portfolio's beta and the average market return. Also known as the abnormal return or the risk adjusted excess return.

Annualized Excess Return over Benchmark - Annualized fund return minus the annualized benchmark return for the calculated return.

**Annualized Return** - A statistical technique whereby returns covering periods greater than one year are converted to cover a 12 month time span.

**Beta** - Measures the volatility or systematic risk and is equal to the change in the fund's performance in relation to the change in the assigned index's performance.

Information Ratio - A measure of the risk adjusted return of a financial security, asset, or portfolio.

#### Formula:

(Annualized Return of Portfolio - Annualized Return of Benchmark)/Annualized Standard Deviation(Period Portfolio Return - Period Benchmark Return). To annualize standard deviation, multiply the deviation by the square root of the number of periods per year where monthly returns per year equals 12 and quarterly returns is four periods per year.

**R-Squared** – Represents the percentage of a fund's movements that can be explained by movements in an index. R-Squared values range from 0 to 100. An R-Squared of 100 denotes that all movements of a fund are completely explained by movements in the index.

**Sharpe Ratio** - A measure of the excess return or risk premium per unit of risk in an investment asset or trading strategy.

**Sortino Ratio** - A method to differentiate between good and bad volatility in the Sharpe Ratio. The differentiation of up and down volatility allows the calculation to provide a risk adjusted measure of a security or fund's performance without upward price change penalties.

#### Formula:

Calculation Average (X-Y)/Downside Deviation (X-Y)\*2Where X=Return Series X Y = Return Series Y which is the risk free return (91 day T-bills) **Standard Deviation** - The standard deviation is a statistical term that describes the distribution of results. It is a commonly used measure of volatility of returns of a portfolio, asset class, or security. The higher the standard deviation the more volatile the returns are.

#### Formula:

(Annualized Return of Portfolio – Annualized Return of Risk Free) / Annualized Standard Deviation (Portfolio Returns)

**Tracking Error** - Tracking error, also known as residual risk, is a measure of the degree to which a portfolio tracks its benchmark. It is also a measure of consistency of excess returns. Tracking error is computed as the annualized standard deviation of the difference between a portfolio's return and that of its benchmark.

#### Formula:

Tracking Error = Standard Deviation  $(X-Y) * \sqrt{(\# of periods per year)}$ Where X = periods portfolio return and <math>Y = the period's benchmark returnFor monthly returns, the periods per year = 12 For quarterly returns, the periods per year = 4

**Treynor Ratio** - A risk-adjusted measure of return based on systematic risk. Similar to the Sharpe ratio with the difference being the Treynor ratio uses beta as the measurement of volatility.

#### Formula:

(Portfolio Average Return - Average Return of Risk-Free Rate)/Portfolio Beta

**Up/Down Capture Ratio** - A measure of what percentage of a market's returns is "captured" by a portfolio. For example, if the market declines 10% over some period, and the manager declines only 9%, then his or her capture ratio is 90%. In down markets, it is advantageous for a manager to have as low a capture ratio as possible. For up markets, the higher the capture ratio the better. Looking at capture ratios can provide insight into how a manager achieves excess returns. A value manager might typically have a lower capture ratio in both up and down markets, achieving excess returns by protecting on the downside, whereas a growth manager might fall more than the overall market in down markets, but achieve above-market returns in a rising market.

 $Upside Capture = Total Return (Fund Returns)/Total Returns (BMR eturn) \ when \ Period Benchmark Return \ is >= 0$ 

 $DownsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) \ when \ Benchmark < 0$ 

Data Source: InvestorForce



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