

### Investment Performance





# Capital Markets Summary

March 31, 2022

### **Capital Markets**

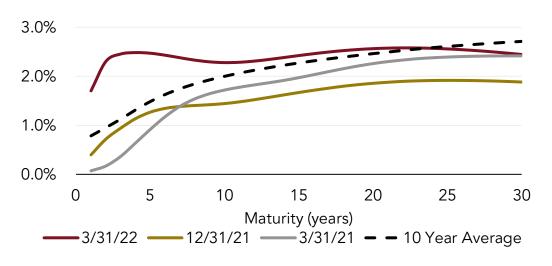
- The latest reading of the PCE price index rose 0.6% in February, bringing the year-over-year increase to 6.4%. This marks the fastest pace dating back to January 1982. Excluding food and energy, the PCE price index rose 5.4% from a year prior, the biggest gain since 1983.
- During March, the labor market continued to tighten, resulting in applications for continuing unemployment claims dropping to 1.35 million, the lowest level since 1970.
- Domestic stock indices reversed the negative momentum from January and February to post modest gains in March. Despite the central bank raising rates mid month, the S&P 500 returned 3.7%.
- International stocks indices were mixed with developed markets outperforming emerging markets. Similar to their domestic counterparts, value stocks outperformed growth.

Cardinal

### **Equity Market Snapshot**

	One		Three	Five	Ten
	Quarter	Year	Year	Year	Year
S&P 500	(4.6%)	15.6%	18.9%	16.0%	14.6%
S&P 500 - Value	(0.2%)	12.6%	14.1%	11.1%	11.9%
S&P 500 - Growth	(8.6%)	18.2%	22.5%	19.9%	16.8%
Russell 2000	(7.5%)	(5.8%)	11.7%	9.7%	11.0%
Russell 2000 - Value	(2.4%)	3.3%	12.7%	8.6%	10.5%
Russell 2000 - Growth	(12.6%)	(14.3%)	9.9%	10.3%	11.2%
MSCI EAFE	(5.9%)	1.2%	7.8%	6.7%	6.3%
MSCI EAFE - Value	0.3%	3.6%	5.2%	4.2%	4.9%
MSCI EAFE - Growth	(11.9%)	(1.5%)	9.8%	8.9%	7.5%
MSCI Emerging Markets	(7.0%)	(11.4%)	4.9%	6.0%	3.4%

### U.S. Treasury Rates



Bloomberg

### Fixed Income Market Snapshot

		One	Three	Five	Ten
	Quarter	Year	Year	Year	Year
ICE BofA 91 Day T-bills	0.0%	0.1%	0.8%	1.1%	0.6%
Bloomberg Aggregate	(5.9%)	(4.2%)	1.7%	2.1%	2.2%
U.S. Treasury	(5.6%)	(3.7%)	1.4%	1.8%	1.7%
U.S. Agency	(4.2%)	(3.9%)	1.2%	1.6%	1.6%
U.S. Credit	(7.4%)	(4.2%)	2.8%	3.2%	3.4%
ABS	(2.9%)	(3.1%)	1.4%	1.7%	1.7%
MBS	(5.0%)	(4.9%)	0.6%	1.4%	1.7%
CMBS	(5.6%)	(4.4%)	1.8%	2.5%	2.8%
Bloomberg U.S. TIPS	(3.0%)	4.3%	6.2%	4.4%	2.7%
Bloomberg Long G/C	(11.0%)	(3.1%)	4.2%	4.6%	4.7%
Bloomberg Municipal	(6.2%)	(4.5%)	1.5%	2.5%	2.9%
S&P/LSTA	(0.1%)	3.3%	4.2%	4.0%	4.3%
Bloomberg High Yield	(4.8%)	(0.7%)	4.6%	4.7%	5.7%
ICE BofA, Bloomberg, S&P					



### Summary

### **Executive Summary**

### For the quarter:

### Portfolio update:

• The total balance for the portfolio was \$1.3 B.

### Capital Markets:

- The latest reading of the PCE Price index rose 0.6% in February, bringing the year-over-year increase to 6.4%. This marks the fastest pace dating back to January 1982. Excluding food and energy, the PCE Price index rose 5.4% from a year prior, the biggest gain since 1983.
- Domestic stock indices reversed the negative momentum from January and February to post modest gains in March. Despite the central bank raising rates mid month, the S&P 500 returned 3.7%.
- International stocks indices were mixed with developed markets outperforming emerging markets. Similar to their domestic counterparts, value stocks outperformed growth.

### Performance:

- The PCF's overall portfolio outperformed the benchmark by 92 bps.
- Equities lagged, while Fixed Income and Private Real Estate outperformed.

### For the past year:

### Capital Markets:

- For investment grade fixed income markets, U.S. TIPS came in at 4.3% followed by S&P/LSTA at 3.3%.
- For equities S&P 500 Growth earned 18.2% followed by the S&P 500 at 15.6%.

### Performance:

- The PCF's overall portfolio underperformed its relative benchmark, returning -0.6%.
- Private Real Estate composite outperformed by 112 bps, returning 29.1% vs. 28.0% for the benchmark.

### For the past five years:

### Capital Markets:

- All fixed income markets came in positive with the big winner Bloomberg's High Yield at 4.7%
- The top equity asset performer was S&P 500 Growth at 19.9% followed by S&P 500 at 16.0%.
- Performance: the PCF's overall portfolio underperformed their relative benchmark 10 bps.

### CARDINAL

### Summary

### March 31, 2022

### Russia's and Ukraine's economics

		Most Recent	GDP	Market	
	Country	<u>Year</u>	<u>\$ T</u>	<u>Share</u>	
1	United States	2020	\$21.0	24.7%	
2	China	2020	\$14.7	17.4%	
3	Japan	2020	\$5.1	6.0%	
4	Germany	2020	\$3.8	4.5%	
5	United Kingdom	2020	\$2.8	3.3%	
6	India	2020	\$2.7	3.1%	
7	France	2020	\$2.6	3.1%	
8	Italy	2020	\$1.9	2.2%	
9	Canada	2020	\$1.6	1.9%	
10	Korea, Rep.	2020	\$1.6	1.9%	
11	Russian Federation	2020	\$1.5	1.8%	
12	Brazil	2020	\$1.4	1.7%	
13	Australia	2020	\$1.3	1.6%	
14	Spain	2020	\$1.3	1.5%	
15	Mexico	2020	\$1.1	1.3%	
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50	Iran, Islamic Rep.	2020	\$0.2	0.2%	
51	Peru	2020	\$0.2	0.2%	
52	Greece	2020	\$0.2	0.2%	
53	Kazakhstan	2020	\$0.2	0.2%	
54	Iraq	2020	\$0.2	0.2%	
55	Hungary	2020	\$0.2	0.2%	
56	Ukraine	2020	\$0.2	0.2%	
57	Algeria	2020	\$0.1	0.2%	
58	Qatar	2020	\$0.1	0.2%	
59	Morocco	2020	\$0.1	0.1%	
60	Ethiopia	2020	\$0.1	0.1%	

- As of 12/31/20 Russia has only 1.8% of the market share per total GDP and Ukraine came in at 0.2% of the total market.
- This helps explain why markets did not plummet when Russia invaded Ukraine.
- The longer-term impact is likely to be higher inflation given that Russia and Ukraine export substantial raw materials (fossil fuels, metals, and agriculture).

### Summary

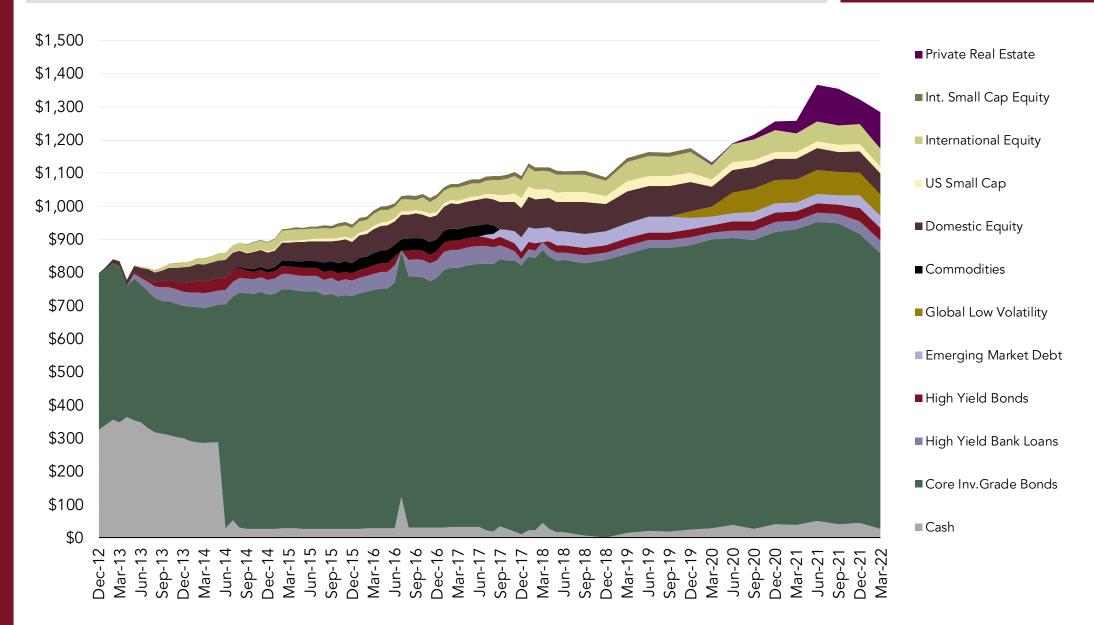
### LPCF's exposure to Russia and Ukraine

	_	Portfo	olio Expos	ure to	12/31/2021	Portfolio Exposure to			% of
		<u>Russia</u>	<u>Ukraine</u>	<u>Total</u>	<u>Value</u>	<u>Russia</u>	<u>Ukraine</u>	<u>Total</u>	<u>Total</u>
	Cash	0.00%	0.00%	0.00%	\$45.3	\$0.0	\$0.0	\$0.0	0%
Core Fixed Income	NEAM	0.00%	0.00%	0.00%	\$870.8	\$0.0	\$0.0	\$0.0	0%
High Yield Bank Loans	Barings	0.00%	0.00%	0.00%	\$39.3	\$0.0	\$0.0	\$0.0	0%
High Yield Bonds	Federated / Vanguard	0.00%	0.00%	0.00%	\$39.4	\$0.0	\$0.0	\$0.0	0%
Emerging Market Debt	Goldman Sachs/PGIM	4.69%	4.54%	9.23%	\$39.4	\$1.8	\$1.8	\$3.6	95%
US Large Cap	Vanguard (two funds)	0.00%	0.00%	0.00%	\$65.3	\$0.0	\$0.0	\$0.0	0%
US Small Cap	Vanguard	0.00%	0.00%	0.00%	\$10.7	\$0.0	\$0.0	\$0.0	0%
US Small Cap	Virtus KAR	0.00%	0.00%	0.00%	\$11.4	\$0.0	\$0.0	\$0.0	0%
International Equity	Vanguard	0.20%	0.00%	0.20%	\$31.6	\$0.1	\$0.0	\$0.1	2%
International Equity	City of London	0.01%	0.00%	0.01%	\$15.2	\$0.0	\$0.0	\$0.0	0%
International Equity	EuroPacific Growth Fd.	0.96%	0.00%	0.96%	\$12.4	\$0.1	\$0.0	\$0.1	3%
Global Low Vol.	Vanguard	0.00%	0.00%	0.00%	\$66.9	\$0.0	\$0.0	\$0.0	0%
Private Real Estate	Invesco	0.00%	0.00%	0.00%	\$19.3	\$0.0	\$0.0	\$0.0	0%
Private Real Estate	AEW	0.00%	0.00%	0.00%	\$54.2	\$0.0	\$0.0	\$0.0	0%
Total Direct Exposure		0.15%	0.14%	0.29%	\$1,321.2	\$2.0	\$1.8	\$3.8	100%

Cardinal

• As of 12/31/21 LPCF has 0.29% exposure to Russia and Ukraine.

### Total Company Allocation (\$000s)



### Five Year Risk/Return Performance

### 6.0% Return (Annualized Pretax) 7. % 8. % Benchmark Total Portfolio 0.0% 0.0% 2.0% 4.0% 6.0% Risk (Annualized Standard Deviation)

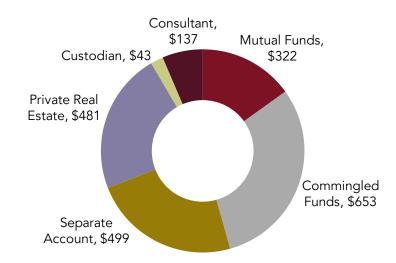
- This chart shows the risk and return for the actual portfolio and the overall benchmark for the past five years.
- Over the past five years, LAPCF underperformed its benchmark by 0.10% on an annualized basis with a slightly less risk.



### Estimated Annual Fees (\$000s)

	3/31/2022	Esimated	Expense
	Market Value (\$MM)	Annual Fee (\$k)	Ratio
Mutual Funds	\$217	\$322	0.15%
Commingled Funds	\$99	\$653	0.66%
Separate Account	\$832	\$499	0.06%
Private Real Estate	\$111	\$481	0.43%
Cash	\$26	na	na
Custodian	na	\$43	0.00%
Consultant	na	\$137	0.01%
Total	\$1,284	\$2,136 <b>Avg.</b>	0.17%

### Distribution of Fees

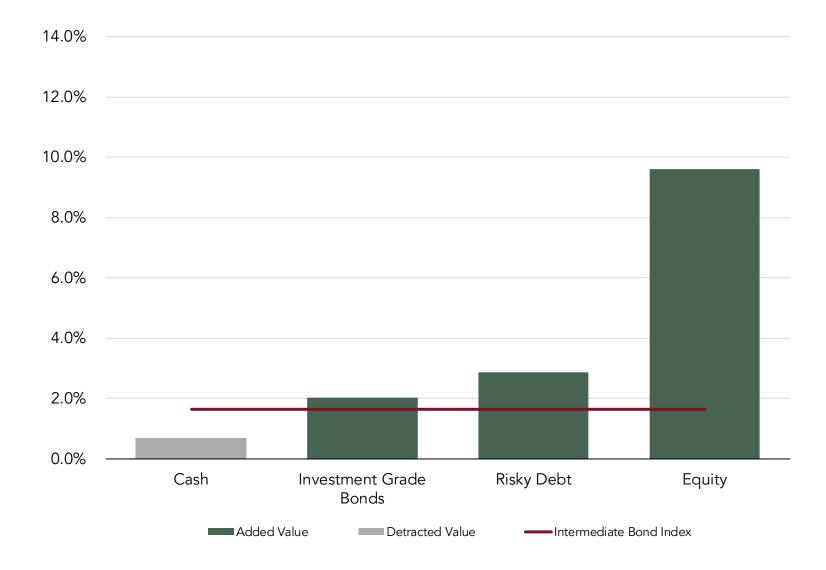


Wells Fargo, Cardinal

Wells Fargo, Cardinal

- The annual fee amounts were calculated using the most recent available market values and expense ratios for each fund.
- The annual fee amounts presented are estimated due to fluctuating market values of each holding from quarter to quarter.

### 5 Year Asset Class Returns vs. Intermediate Bond Index





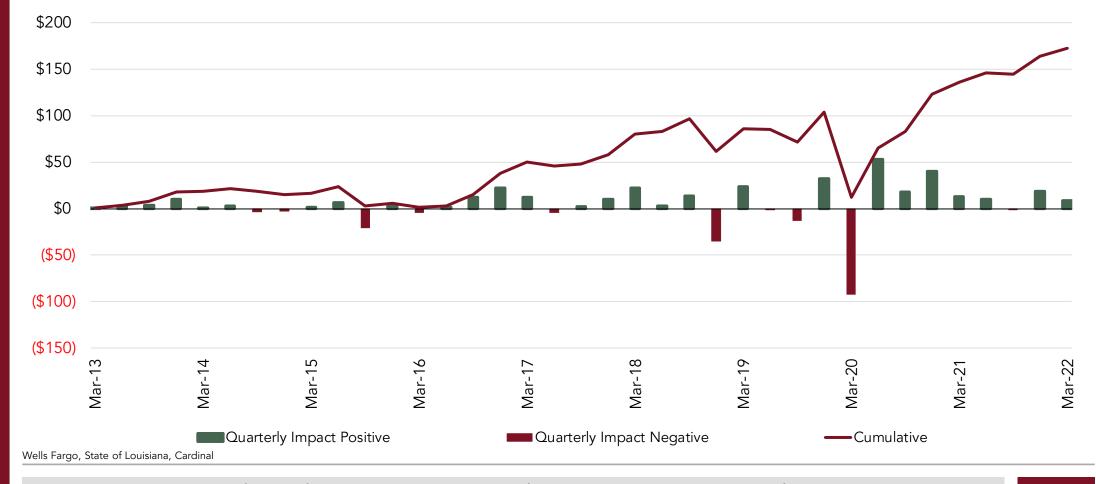
March 31, 2022

### **Total Composites**

### Net of Fees

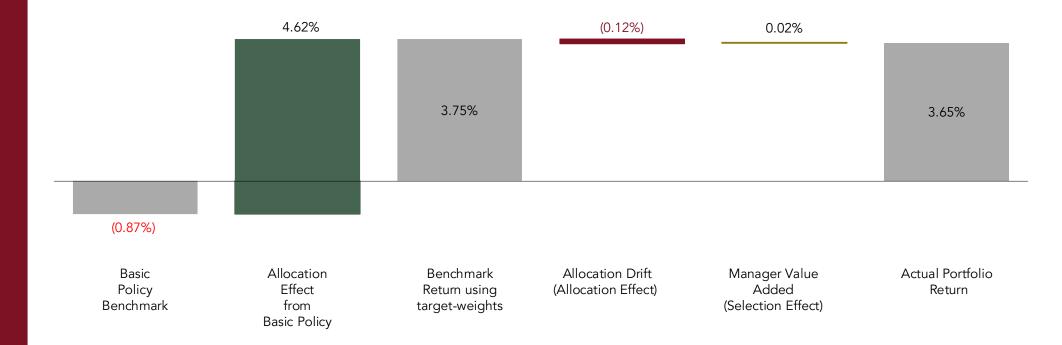
	Market	% of		One	Three	Five	Ten	Since	Inception
Composite	Value (\$000s)	Weight	Quarter	Year	Years	Years	Years	Inception	Date
PCF Composite									
Pretax Performance	\$1,284,311	100.0%	(3.64%)	(0.55%)	3.79%	3.65%	2.90%	2.84%	Jan-12
Blended Benchmark <sup>1</sup>			(4.56%)	<u>(0.46%)</u>	<u>4.01%</u>	<u>3.75%</u>	<u>3.32%</u>	<u>3.43%</u>	
Relative Performance			0.92%	(0.09%)	(0.22%)	(0.10%)	(0.42%)	(0.59%)	
Card									
<b>Cash</b> WF Advantage Fund	\$25,891	2.0%	0.01%	0.01%	0.44%	0.67%	_	0.52%	Jan-15
Merrill 91 Day T-Bill	Ψ <b>2</b> J,071	2.076	0.01%	(0.03%)	0.44%	0.07 % 1.04%	-	0.32 <i>%</i> 0.76 <u>%</u>	Jan-13
Relative Performance			(0.01%)	0.04%	(0.27%)	(0.37%)	-	(0.24%)	
Relative Ferrormance			(0.0170)	0.0470	(0.27 70)	(0.57 70)		(0.2470)	
Core Fixed Income Composite	\$832,457	64.8%	(4.49%)	(3.62%)	1.57%	2.03%	1.99%	1.94%	Jan-12
Blended Benchmark <sup>2</sup>			(4.70%)	(4.41%)	<u>1.16%</u>	1.64%	1.91%	<u>1.90%</u>	
Relative Performance			0.21%	0.79%	0.42%	0.39%	0.07%	0.05%	
Risky Debt Composite	\$112,647	8.8%	(4.75%)	(1.54%)	2.68%	2.85%	-	3.18%	Apr-13
Blended Benchmark <sup>2</sup>			(4.75%)	(1.79%)	<u>3.05%</u>	3.20%	-	<u>3.53%</u>	•
Relative Performance			0.00%	0.25%	(0.37%)	(0.34%)	-	(0.35%)	
								•	
Total Equity Composite	\$202,639	15.8%	(5.28%)	3.95%	10.59%	9.61%	-	10.61%	Nov-12
Blended Benchmark <sup>2</sup>			<u>(5.02%)</u>	<u>4.93%</u>	<u>12.62%</u>	<u>10.55%</u>	-	<u>11.20%</u>	
Relative Performance			(0.26%)	(0.99%)	(2.03%)	(0.94%)	-	(0.58%)	
Private Real Estate Composite	\$110,676	8.6%	7.83%	29.13%	-	-	-	13.99%	Jan-20
Blended Benchmark <sup>2</sup>			<u>7.69%</u>	<u>28.01%</u>	-	-	-	<u>13.29%</u>	
Relative Performance			0.14%	1.12%	-	-	-	0.71%	
Wells Fargo, State of Louisiana, Cardinal									

### Value added or (Detracted) by the Diversified Portfolio



• Since inception, the diversified portfolio has added approximately \$173 MM above what the prior portfolio structure likely would have earned.

### Five-Year Performance Attribution: Overall



Wells Fargo, Cardinal

• Drift, or the Allocation effect was (0.12%) for the last five years.

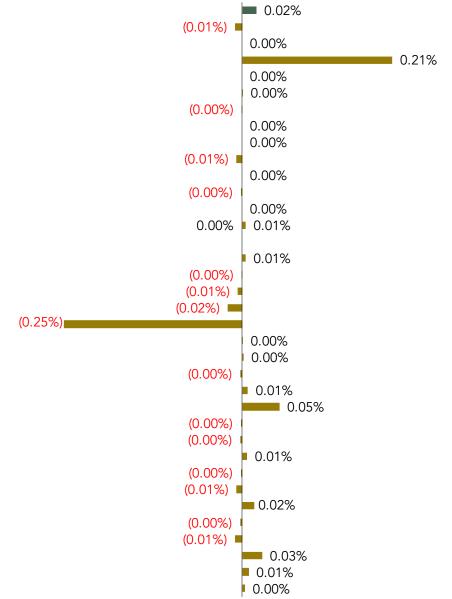


## Attribution

### March 31, 2022

### Manager Value Added

Overall Wells Fargo Money Market Fixed Income - State of LA **GR NEAM** Lord Abbett Federated Institutional High Yield Bond Vanguard High Yield Corporate Fund Neuberger High Yield Ridgeworth Neuberger Berman High Income Fund Oppenheimer Floating Rate Barings Captial Floating Rate Income Fund PIMCO Commodity Real Return DFA Commodity Strategy VAN ECK CM Commodity Index Fund PIMCO Commodities Plus Strategy PGIM Emerging Markets Debt **Emerging Markets Hard Currency Bond SSGA** Goldman Sachs Emerging Markets Debt Vanguard Global Minimum Volatility Vanguard Russell 1000 Value Fund Vanguard Total Stock Market Fund DFA US Small Cap Vanquard Small-Cap S&P 600 Virtus KAR Small-Cap Core Diamond Hill Small Cap Fund Allianz NJF International Value Fund EuroPacific Growth Fund Harbor International PIMCO International StockPLUS City of London Vanguard Total International Stock Fund DFA International Small Cap Value Oppenheimer International Small Cap Invesco US Income Fund L'P **AEW Core Property Trust** 



- GR NEAM has had a significantly positive impact on the overall portfolio (+0.21%) annualized over the past five years.
- As the rest of the managers have relatively small mandates, they have a limited ability to impact the relative returns of the overall portfolio.
- No manager has had a significant negative effect on the overall portfolio except for Vanguard Global Minimum Volatility which is being hurt by its quality bias. Nonetheless, many of the managers that were underperforming over this time period have been terminated.



### Cash Flows Fixed Income

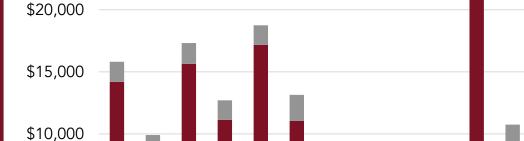
### March 31, 2022

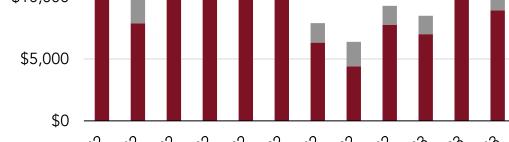
### Cash Flow Projections (\$000s) - 12 Months





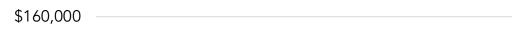


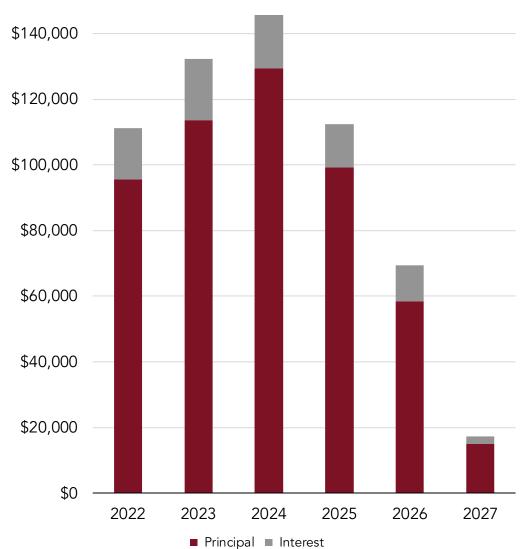




### ■ Principal ■ Interest

### Cash Flow Projections (\$000s) - Yearly







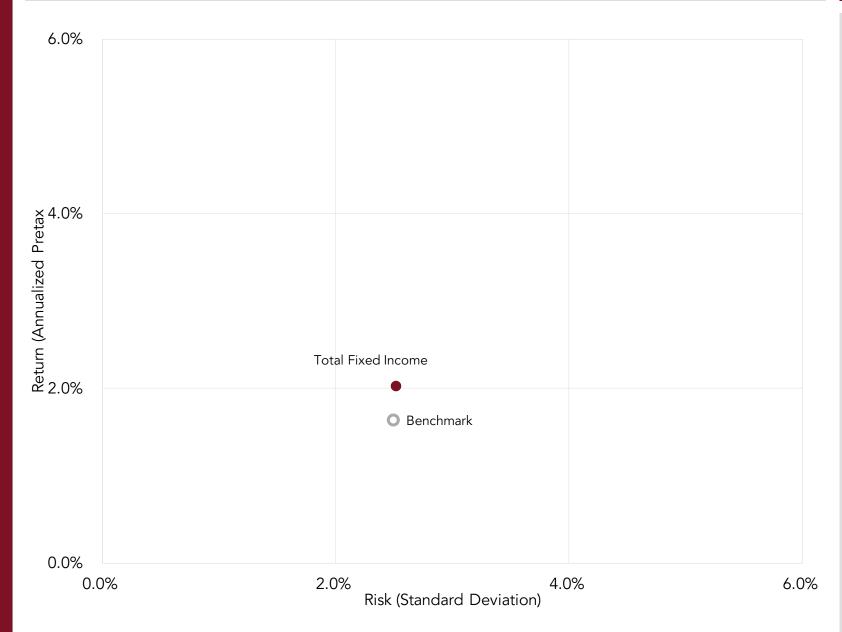
### Fixed Income

Portfolio  Core Fixed Income Composite  Blended Benchmark <sup>2</sup> Relative Performance	Market Value (\$000s) \$832,457	% of Weight 64.8%	Quarter (4.49%) (4.70%) 0.21%	One Year (3.62%) (4.41%) 0.79%	Three Years 1.57% 1.16% 0.42%	Five Years 2.03% 1.64% 0.39%	Ten Years 1.99% <u>1.91%</u> 0.07%	Since Inception 1.94% 1.90% 0.05%	Inception Date Jan-12
<b>NEAM</b> Bloomberg Int. Aggregate Index Relative Performance	\$832,457	64.8%	(4.49%) (4.70%) 0.21%	(3.62%) (4.41%) 0.79%	1.57% <u>1.16%</u> 0.42%	2.03% <u>1.64%</u> 0.39%	- - -	2.09% <u>1.68%</u> 0.41%	Jun-14

Wells Fargo, State of Louisiana, NEAM, Cardinal

- NEAM has outperformed for all reporting time periods.
- The Core Fixed Income Composite includes, in chronological order:
  - State of Louisiana Fixed income,
  - Various mutual funds used transitionally,
  - JP Morgan, and NEAM.

### Five Year Risk/Return Performance (Total Fixed Income)



 Over the past five years, Fixed Income has outperformed against its benchmark by 0.39% with the same risk.



## Characteristics NEAM

### March 31, 2022

17

### Characteristics

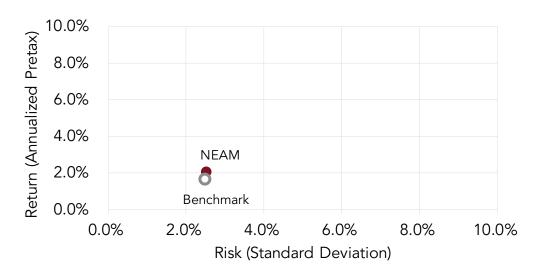
			BB Int.
	NE	Aggregate	
Characteristic	12/31/21	3/31/22	3/31/22
Effective Duration	4.3 years	4.3 years	3.9 years
Average Maturity	4.8 years	5.6 years	4.1 years
Yield to Maturity	1.4%	2.7%	2.4%
Average Quality	AA	AA	AAA

### Mandate and Objective

- Actively managed Fixed income separate account
- Inception: June 2014
- Objective: Exceed total return of the Bloomberg Int. Aggregate Index
- Annual Fee = 0.075% on the first \$400M and 0.045% on the remaining

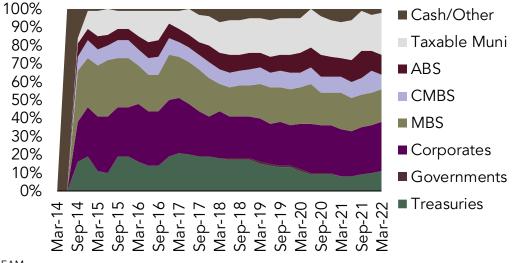
### NEAM, Barclays Indices

### Five-Year Risk/Return



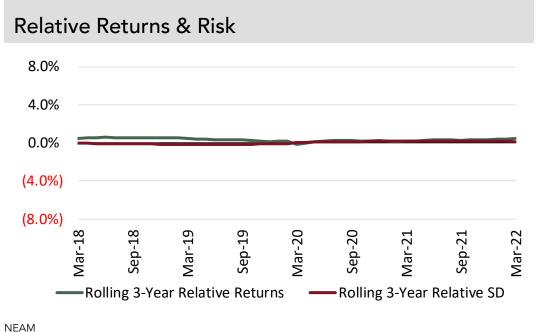
### NEAM

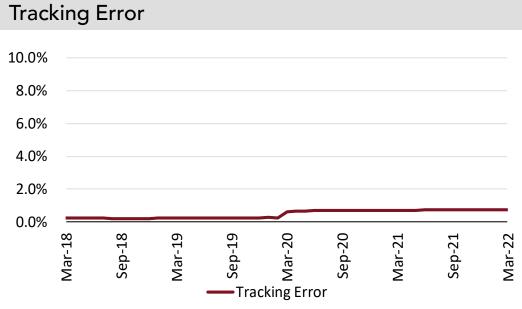
### **Historical Sector Distribution**



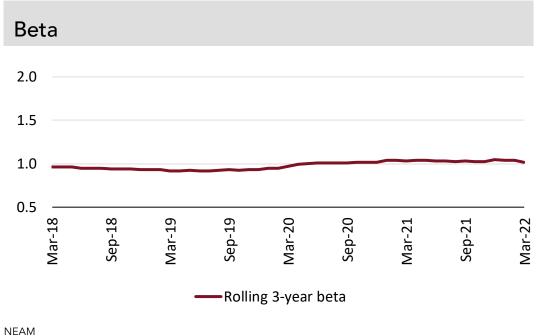


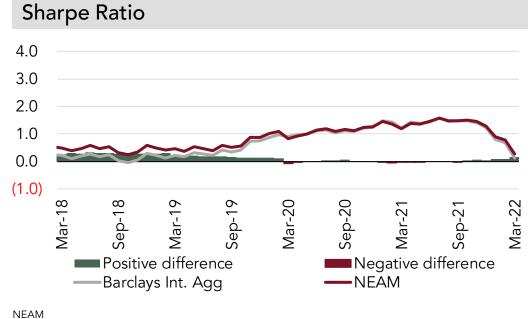
## Characteristics NEAM













### High Yield Bank Loan

	Market Value	%		One	Three	Five	Ten	Since	Inception
Portfolio	(\$000s)	Weight	Quarter	Year	Years	Years	Years	Inception	Date
High Yield Bank Loan Composite	\$39,329	3.1%	(0.07%)	3.06%	3.61%	3.58%	-	3.34%	Apr-13
S&P LSTA Index			(0.27%)	<u>2.59%</u>	<u>3.55%</u>	<u>3.34%</u>	-	<u>3.40%</u>	
Relative Performance			0.20%	0.47%	0.06%	0.24%	-	(0.06%)	
Barings Capital Floating Rate Income S&P LSTA Index Relative Performance	\$39,329	3.1%	(0.07%) ( <u>0.27%)</u> 0.20%	3.06% 2.59% 0.47%	3.61% 3.55% 0.06%	3.58% <u>3.34%</u> 0.24%	- - -	3.97% <u>3.78%</u> 0.19%	Aug-16

Wells Fargo, Barings, Cardinal

- Barings outperformed for all time periods.
- Since inception Barings has outperformed the benchmark by +0.19 bps.



### Characteristics

	Barings	S&P LSTA	
Characteristic	12/31/21	3/31/22	3/31/22
Number of Issues	252	253	1,404
Average Maturity	4.3 years	4.5 years	NA
Effective Duration	3.8 years	3.9 years	3.7 years
Avg Credit Quality	В	В	B+

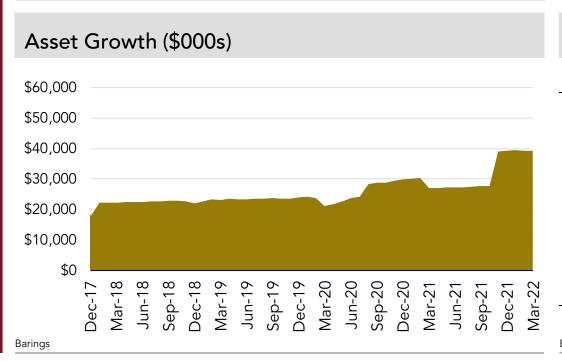
### Mandate and Objective

- Actively managed High Yield Bank Loan Fund.
- Inception: August 2016
- Objective: Exceed total return of the S&P LSTA index
- Annual fee 0.475%

### Characteristics Barings

March 31, 2022





Barings

### Top Ten Holdings

Holding	Weight
Bausch Health Companies Inc	1.2%
Asurion	1.2%
Misys	1.1%
Clear Channel Worldwide	1.1%
Syniverse Technologies	1.1%
American Airlines Group	1.0%
Altice USA, Inc	1.0%
Renaissance Learning	0.9%
Avsc Holding Corp	0.9%
Veritas	0.8%
Total	10.1%

Barings

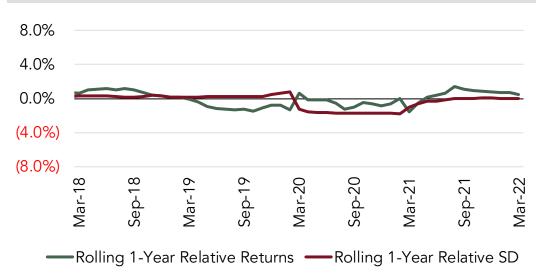
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### Characteristics Barings

### March 31, 2022

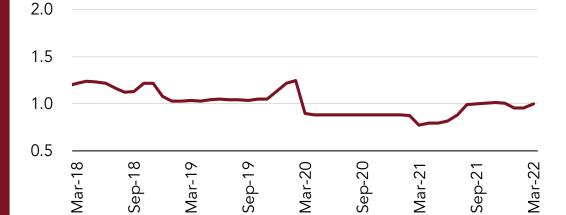
### Relative Returns & Risk



Manager Above

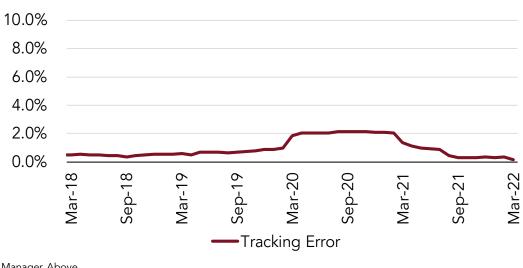
Manager Above





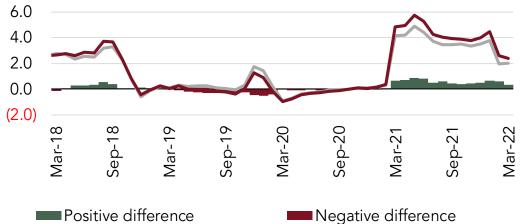
---Rolling 1-year beta

### **Tracking Error**



Manager Above

### **Sharpe Ratio**



-S&P LSTA Index

—Barings Capital Floating Rate

Manager Above





### High Yield Bond

	Market Value	% of		One	Three	Five	Ten	Since	Inception
Portfolio	(\$000s)	Weight	Quarter	Year	Years	Years	Years	Inception	Date
High Yield Bond Composite	\$37,823	2.9%	(4.20%)	(0.43%)	4.24%	4.25%	-	4.08%	5/1/2013
Blended Benchmark <sup>2</sup>			(4.56%)	(0.44%)	<u>4.22%</u>	<u>4.54%</u>	-	<u>4.38%</u>	
Relative Performance			0.37%	0.01%	0.02%	(0.29%)	-	(0.30%)	
Federated Institutional High Yield Bond BofA/ML U.S. High Yield Cash Pay Index Relative Performance	\$19,021	1.5%	(4.16%) (4.56%) 0.40%	(0.33%) ( <u>0.44%)</u> 0.10%	4.36% <u>4.22%</u> 0.14%	- - -	- - -	4.77% <u>4.62%</u> 0.14%	4/1/2018
Vanguard High Yield Corporate Fund BofA/ML U.S. High Yield Cash Pay Index Relative Performance	\$18,802	1.5%	(4.23%) (4.56%) 0.33%	(0.52%) (0.44%) (0.08%)	4.11% 4.22% (0.11%)	- - -	- - -	4.59% <u>4.62%</u> (0.03%)	4/1/2018

Wells Fargo, Federated, Vanguard, Cardinal

- The High Yield Bond Composite outperformed the benchmark for all reporting time periods except five year and since inception periods.
- Both Federated and Vanguard outperformed for the quarter.



## Characteristics Federated High Yield Bond

March 31, 2022

### Characteristics

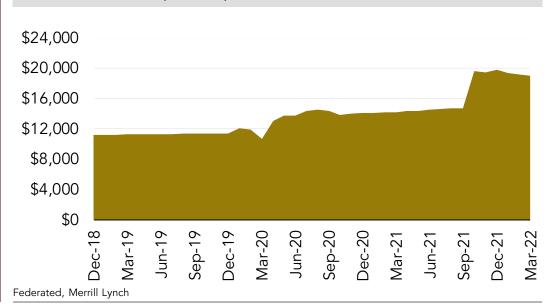
	Fed	erated	ICE BofA / ML U.S. High Yield
Characteristic	12/31/21	3/31/22	3/31/22
No. of Holdings	658	629	2,018
Average Duration	3.2 years	3.9 years	4.1 years
Avg. Credit Quality	В	В	BB-
Avg. Yield to Maturity	4.1%	5.3%	5.6%
Average Coupon	5.7%	5.8%	5.3%

### Mandate and Objective

- Fund (FIHBX)
- Actively Managed High Yield Bond Fund
- Inception: April 2018
- Objective: Exceed total return of the ICE BofA / ML U.S. High Yield Cash Pay
- Annual Fee 0.500%

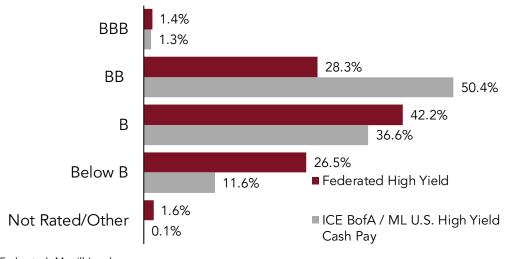
Federated, Merrill Lynch

### Asset Growth (\$000s)



Federated, Merrill Lynch

### **Quality Distribution**



Federated, Merrill Lynch



### Bond Federated High Yield Characteristics

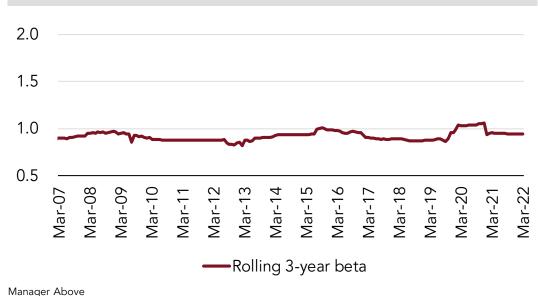
March 31, 2022

### Relative Returns & Risk

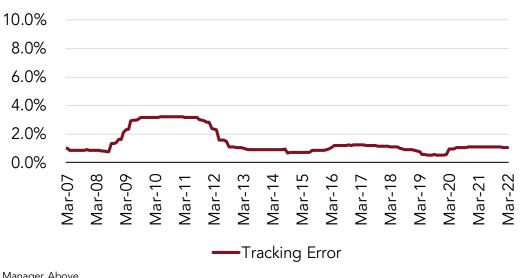


Manager Above

### Beta

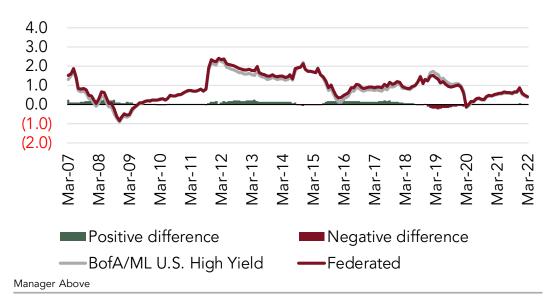


### **Tracking Error**



Manager Above

### **Sharpe Ratio**





## Characteristics Vanguard High Yield Bond

March 31, 2022

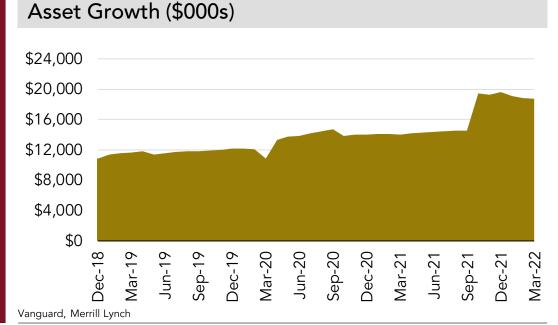
### Characteristics

	Vangı	uard HY	ICE BofA / ML U.S. High Yield
Characteristic	12/31/21	3/31/22	3/31/22
No. of Holdings	622	631	2,018
Average Duration	3.8 years	4.1 years	4.1 years
Avg. Credit Quality	BB	BB	BB-
Avg. Yield to Maturity	4.5%	5.8%	5.6%
Average Coupon	4.6%	4.6%	5.3%

### Mandate

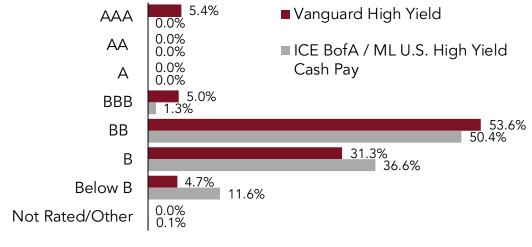
- Fund (VWEAX)
- Passively managed High Yield Bond Fund
- Inception: April 2018
- Objective: Exceed total return of the ICE BofA / ML U.S. High Yield Cash Pay Index
- Annual fee 0.130%

Vanguard, Merrill Lynch



Vanguard, Merrill Lynch

### **Quality Distribution**



Vanguard, Merrill Lynch



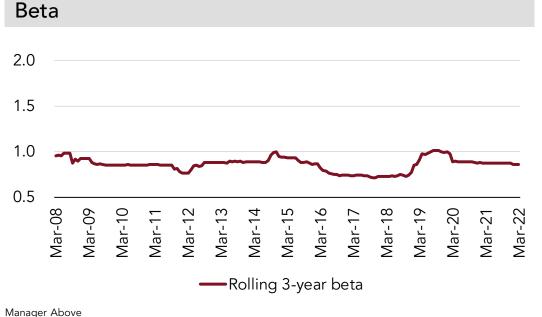
### Bond Vanguard High Yield Characteristics

March 31, 2022

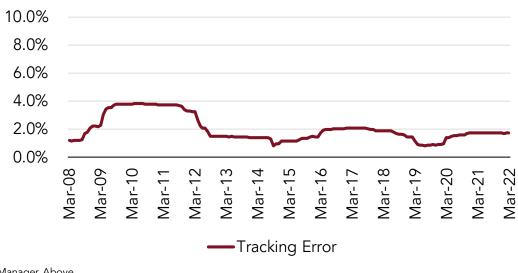
### Relative Returns & Risk



Manager Above

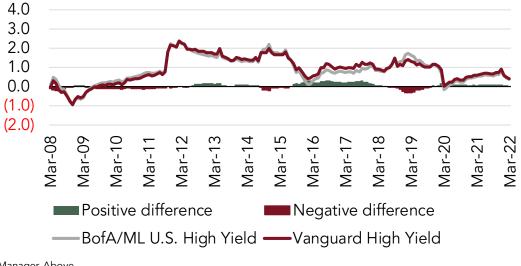


### **Tracking Error**



Manager Above

### **Sharpe Ratio**



Manager Above



### **Emerging Market Debt**

	Market Value	%		One	Three	Five	Ten	Since	Inception
Portfolio	(\$000s)	Weight	Quarter	Year	Years	Years	Years	Inception	Date
Emerging Market Debt Composite	\$35,495	2.8%	(9.98%)	(7.21%)	0.26%	-	-	0.92%	Aug-17
50% EMBI Global / 50% CEMBI Broad			<u>(9.46%)</u>	<u>(7.52%)</u>	0.79%	-	-	<u>1.59%</u>	
Relative Performance			(0.52%)	0.31%	(0.53%)	-	-	(0.66%)	
Goldman Sachs Emerging Market	\$17,645	1.4%	(9.92%)	(7.37%)	(0.40%)	-	-	0.15%	Aug-17
50% EMBI Global / 50% CEMBI Broad			<u>(9.46%)</u>	<u>(7.52%)</u>	0.79%	-	-	<u>1.59%</u>	
Relative Performance			(0.46%)	0.15%	(1.19%)	-	-	(1.43%)	
DCIM Emorging Market Dobt	\$17,850	1 /10/	(10.04%)	/7 OE9/\				(1.06%)	Jul-20
PGIM Emerging Market Debt	\$17,030	1.4%	,	(7.05%)	-	-	-	•	Jui-20
50% EMBI Global / 50% CEMBI Broad			<u>(9.46%)</u>	<u>(7.52%)</u>	-	-	-	<u>(1.81%)</u>	
Relative Performance			(0.57%)	0.48%	-	-	-	0.75%	

Wells Fargo, Goldman Sachs, Prudential, Cardinal

- Goldman Sachs underperformed for all time periods except the one-year period. If their performance does not improve soon, then we will recommend replacing them.
- Prudential outperformed since inception by 75 bps, while Goldman Sachs underperformed by 143 bps.



### Characteristics Idman Sachs Emerging Markets Fund

March 31, 2022

### Characteristics

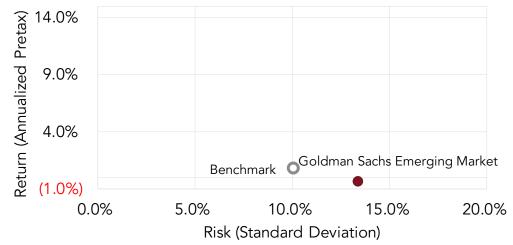
	Goldman Sac Mai	chs Emerging rket	50% EMBI Global / 50% CEMBI Broad Div.
Characteristic	12/31/2021	3/31/22	3/31/22
No. of Holdings	478	464	2,990
Effective Duration	7.9 years	8.62 years	6.2 years
Effective Maturity	15.5 years	15.9 years	5.8 years
Avg. Credit Quality	BB	BB	BBB-
Yield	4.1%	5.5%	5.6%

### Mandate

- Mutual fund (GSDIX)
- Inception: August 2017
- Objective: Exceed total return of JPM 50% EMBI Global Diversified /50% CEMBI Broad Diversified
- Annual fee 0.85%

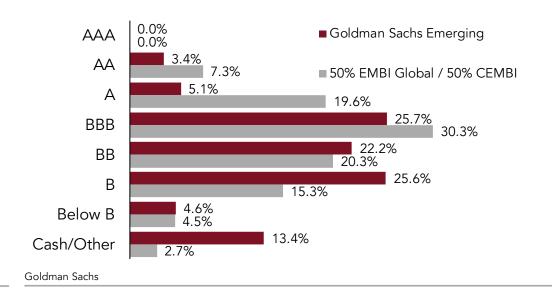
Goldman Sachs

### Three-Year Risk/Return



Goldman Sachs

### **Quality Distribution**



Goldman Sachs



### Emerging Characteristics **Markets Fund** Sachs Goldman

March 31, 2022

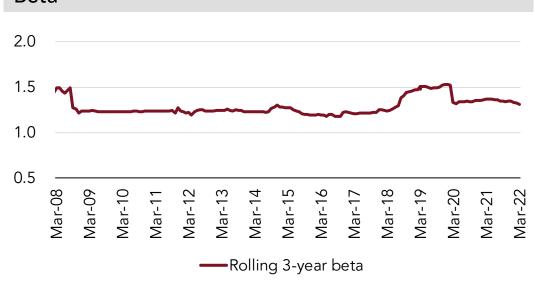




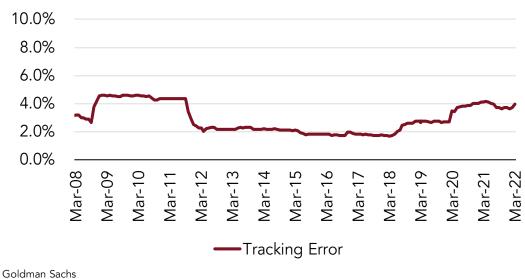
Goldman Sachs

### Beta

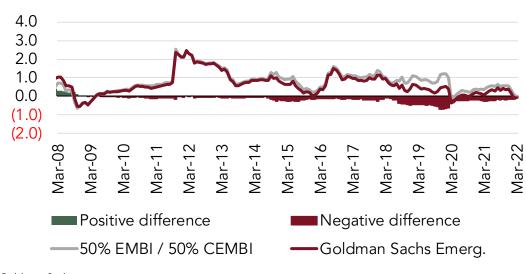
Goldman Sachs



### **Tracking Error**



### **Sharpe Ratio**



Goldman Sachs



## Prudential Emerging Markets Fund Characteristics

March 31, 2022

### Characteristics

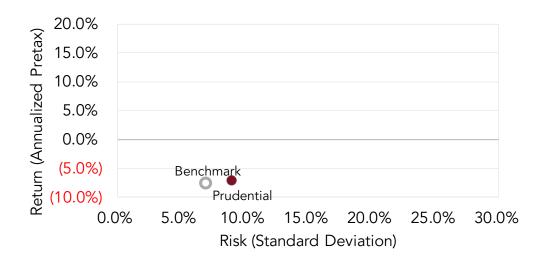
			50% EMBI Global / 50% CEMBI Broad
	Prudential Em	erging Market	Div.
Characteristic	12/31/21	3/31/22	3/31/22
No. of Holdings	488	527	2,990
Effective Duration	8.1 years	7.6 years	6.2 years
Effective Maturity	12.3 years	12.1 years	5.8 years
Avg. Credit Quality	BB	BB	BBB-
Yield	5.3%	5.2%	5.6%

### Mandate

- Mutual fund (PDHQX)
- Inception: July 2020
- Objective: Exceed total return of JPM 50% EMBI Global Diversified /50% CEMBI Broad Diversified
- Annual fee 0.65%

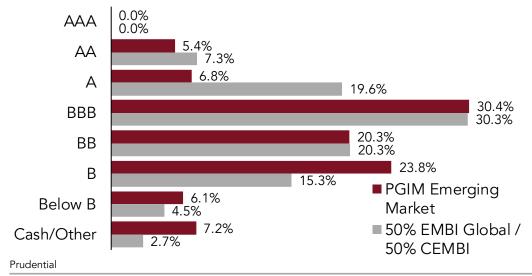
Prudential

### One-Year Risk/Return



Prudential

### **Quality Distribution**



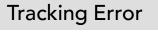


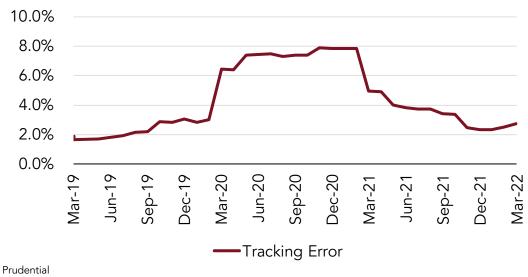
### Markets Characteristics Prudential Emerging Fund

March 31, 2022

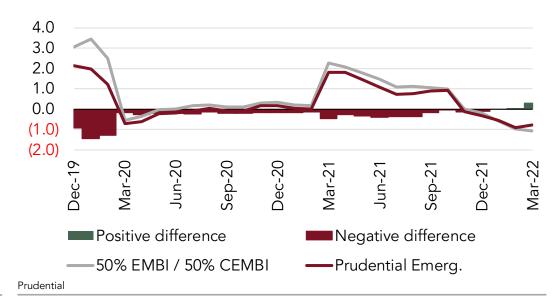
### Relative Returns & Risk



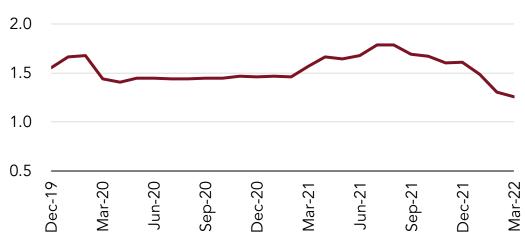




### **Sharpe Ratio**



### Beta



---Rolling 1-year beta

Prudential



### Equity and Global Low Volatility

Portfolio <b>Total Equity Composite</b> Blended Benchmark <sup>2</sup>	Market Value (\$000s) \$202,639	% Weight 15.8%	<u>(5.02%)</u>	One Year 3.95% 4.93%	Three Years 10.59% 12.62%	Five Years 9.61% 10.55%	Ten Years - -	Since Inception 10.61% 11.20%	Inception Date Nov-12
Relative Performance			(0.26%)	(0.99%)	(2.03%)	(0.94%)	-	(0.58%)	
<b>Domestic Equity Composite</b> Blended Benchmark <sup>2</sup> Relative Performance	\$83,469	6.5%	(4.73%) (4.64%) (0.09%)	9.10% <u>7.31%</u> 1.79%	16.25% 15.62% 0.63%	13.46% 12.79% 0.66%	- - -	13.94% 13.66% 0.28%	Nov-12
<b>International Equity Composite</b> Blended Benchmark <sup>2</sup> Relative Performance	\$54,120	4.2%	(8.79%) ( <u>5.32%)</u> ( <u>3.47%)</u>	(4.54%) (0.81%) (3.73%)	8.63% <u>7.99%</u> 0.63%	7.35% <u>6.76%</u> 0.59%	- - -	5.19% 5.05% 0.14%	May-13
Vanguard Global Minimum Volatility FTSE All-World Index Relative Performance	\$65,050	5.1%	(2.88%) ( <u>5.26%)</u> 2.39%	5.45% 7.05% (1.60%)	- - -	- - -	- - -	2.56% 13.55% (10.99%)	Dec-19

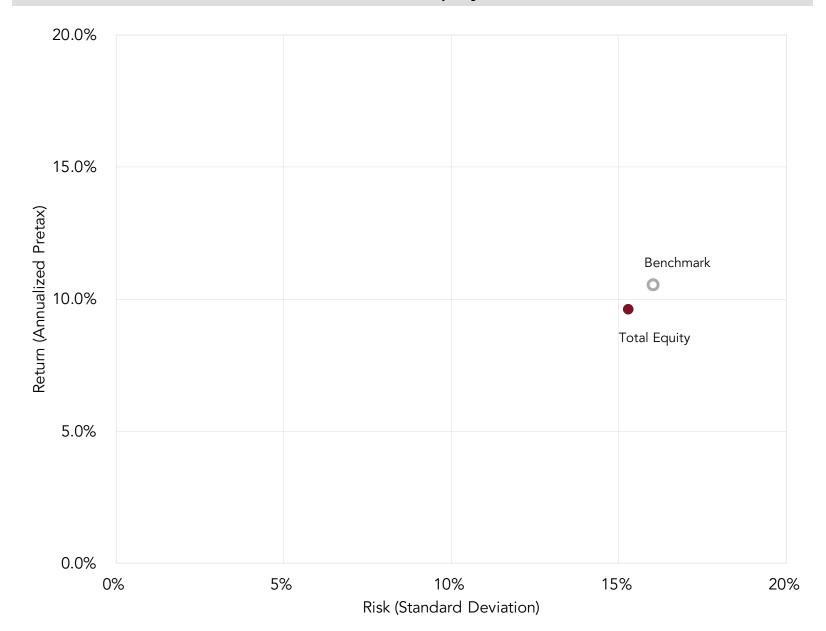
Wells Fargo, Cardinal

The Equity composite underperformed for all time periods.

- Over the past five years:
  - The equity portfolio earned 9.61%.
  - US equities did well, earning 13.46%.
  - International Equities earned 7.35%.

### March 31, 2022

### Five Year Risk/Return Performance (Total Equity)



• Over the past five years, Total Equity has underperformed its benchmark by 0.94%.



### March 31, 2022

### Domestic Equity

### Net of Fees

Portfolio	Market Value (\$000s)	% Weight	Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception	Inception Date
Domestic Equity Composite	\$83,469	6.5%	(4.73%)	9.10%	16.25%	13.46%	-	13.94%	Nov-12
Blended Benchmark <sup>2</sup>			(4.64%)	<u>7.31%</u>	<u>15.62%</u>	<u>12.79%</u>	-	<u>13.66%</u>	
Relative Performance			(0.09%)	1.79%	0.63%	0.66%	-	0.28%	
Vanguard Total Stock Market Fund	\$39,721	3.1%	(5.46%)	11.68%	18.17%	15.39%	_	15.07%	Nov-12
Russell 3000 Index	ΨΟ7,721	0.170	(5.29%)	11.89%	18.21%	15.37% 15.37%	_	15.07%	1101 12
Relative Performance			(0.18%)	(0.21%)	(0.04%)	0.02%	-	0.01%	
Vanguard Russell 1000 Value Fund	\$23,202	1.8%	(0.77%)	11.59%	12.99%	10.25%	_	9.58%	May-14
Russell 1000 Value Index	,		(0.75%)	<u>11.63%</u>	12.97%	10.22%	_	9.58%	,
Relative Performance			(0.02%)	(0.04%)	0.02%	0.03%	_	0.00%	
US Small Cap Equity Composite	\$20,546	1.6%	(7.51%)	1.14%	14.43%	-	-	12.05%	Mar-18
Blended Benchmark <sup>2</sup>			(7.55%)	(5.87%)	<u>11.65%</u>	-	-	<u>8.22%</u>	
Relative Performance			0.04%	7.01%	2.78%	-	-	3.83%	
Vanguard Small Cap S&P 600	\$10,171	0.8%	(5.66%)	1.13%	13.58%	_	_	9.76%	Mar-18
Russell 2000 Index	Ψ.ογ.,	0.070	(7.55%)	<u>(5.87%)</u>	11.65%	_	_	8.22%	11101 10
Relative Performance			1.90%	7.00%	1.93%	-	-	1.54%	
Virtus KAR Small Cap Core	\$10,374	0.8%	(9.27%)	1.15%	14.79%	_	_	13.97%	Mar-18
Russell 2000 Index	Ψ. Θ,Θ,	3.070	(7.55%)	<u>(5.87%)</u>	11.65%	-	_	8.22%	11.61
Relative Performance			(1.72%)	7.02%	3.14%	-	-	5.75%	



### **Total Stock Market** <u>Characteristics</u> Index Fund Vanguard

March 31, 2022

### Characteristics

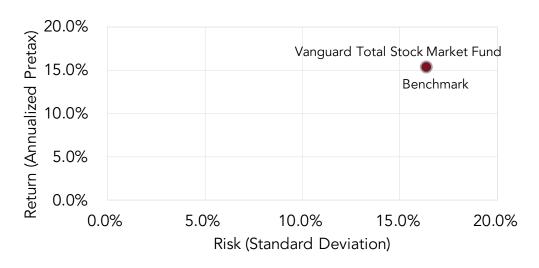
	Vanguard		
	Mark	Russell 3000	
Characteristic	12/31/21	3/31/22	3/31/22
No. of Holdings	4,139	4,124	4,119
P/E Ratio	24.3x	21.2x	21.2x
Price/Book Ratio	4.3x	3.9x	3.9x
Avg Mkt Cap (\$B)	\$138.2	\$133.8	\$133.8
Return on Equity	18.9%	19.6%	19.6%
% in Top 10 Holdings	25.2%	24.3%	24.3%

### Mandate and Objective

- Passively managed equity index fund (VITSX)
- Inception: November 2012
- Objective: Match performance of the Russell 3000 Index
- Annual Fee = 0.030%

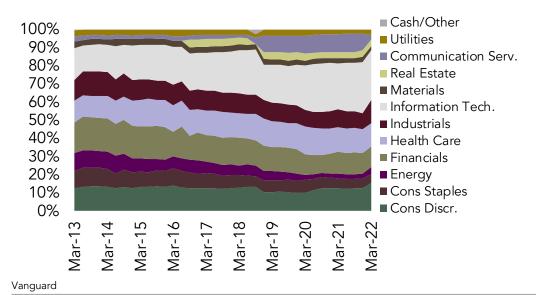
Vanguard, Russell

### Five-Year Risk/Return



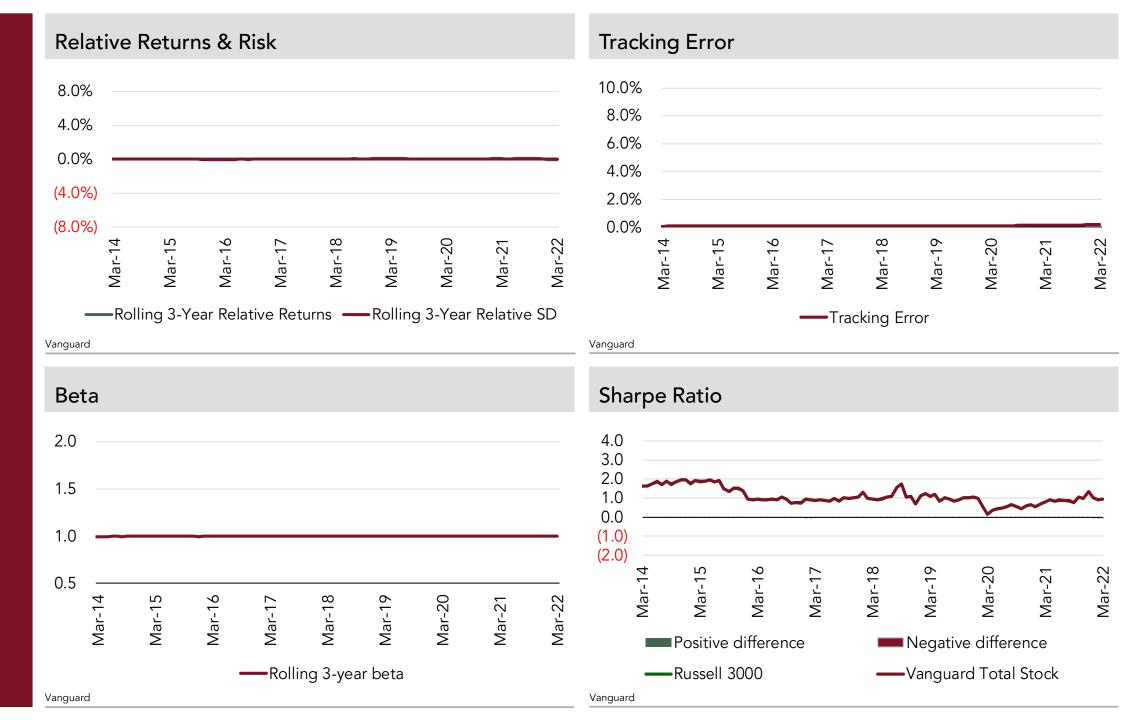
Vanguard

### Historical Sector Distribution





## Vanguard Total Stock Market Characteristics





## Vanguard Russell 1000 Value Characteristics Fund

March 31, 2022

## Characteristics

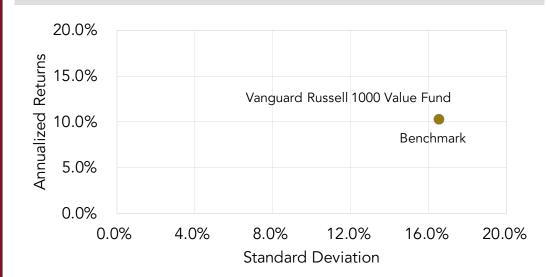
Characteristic	•	sell 1000 Value I as of 3/31/22	Russell 1000 Value Index 3/31/22
No. of Holdings	853	849	848
P/E Ratio	18.4x	16.6x	16.6x
Price/Book Ratio	2.6x	2.5x	2.5x
Avg Mkt Cap (\$B)	\$82.3	\$77.5	\$77.5
Return on Equity	12.6%	13.1%	13.1%
% in Top 10 Holdings	17.7%	18.4%	18.4%

## Mandate and Objective

- Passively managed equity index fund (VRVIX)
- Inception: May 2014
- Objective: Match performance of the Russell 1000 Value Index
- Annual Fee = 0.07%

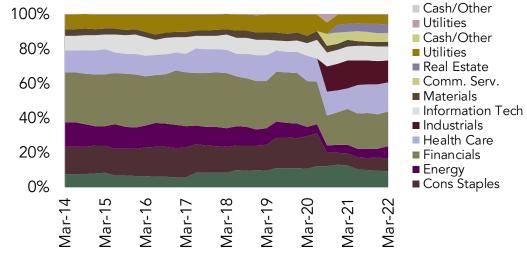
Vanguard, Russell

## Five-Year Risk/Return



Vanguard, Russell

## Historical Sector Distribution



Vanguard, Russell



# Characteristics Vanguard Russell 1000 Value

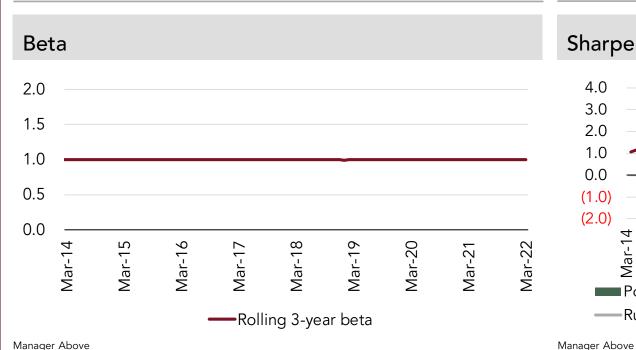
March 31, 2022

## Relative Returns & Risk 8.0% 4.0% 0.0% (4.0%)(8.0%)Mar-20 Mar-14 Mar-15 Mar-16 Mar-22 Mar-17 Mar-21 Mar-19

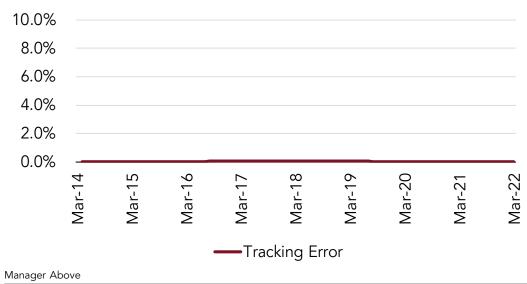
-Rolling 3-Year Relative SD

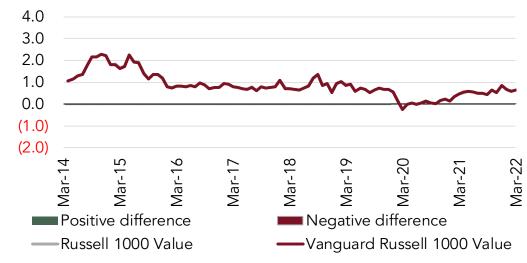
Rolling 3-Year Relative Returns -





## **Tracking Error**







## Characteristics rd Small Cap S&P 600 Fund Vanguard

March 31, 2022

## Characteristics

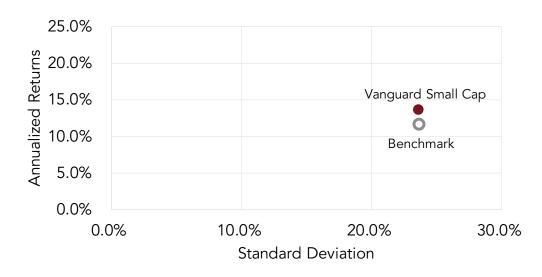
	Vanguard :	Russell 2000	
Characteristic	12/31/21	3/31/22	3/31/22
No. of Securities	607	604	2,000
P/E Ratio	16.1x	14.3x	13.7x
Price/Book Ratio	2.1xx	1.9x	2.4x
Avg Mkt Cap (\$B)	\$2.5	\$2.5	\$3.4
% in Top 10 Holdings	5.4%	5.7%	3.8%

## Mandate

- Passively managed equity index fund (VSMSX)
- Inception: March 2018
- Objective: Exceed performance of the Russell 2000 Index
- Annual Fee = 0.08%

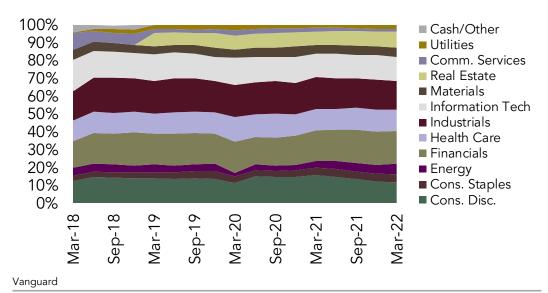
Vanguard, Russell

## Three-Year Risk/Return



Vanguard

## **Historical Sector Distribution**





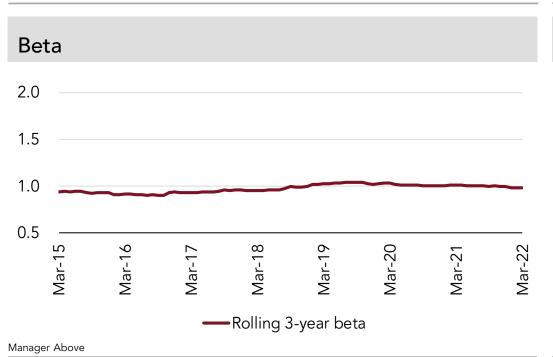
## Characteristics rd Small Cap S&P 600 Small C Fund Vanguard

March 31, 2022

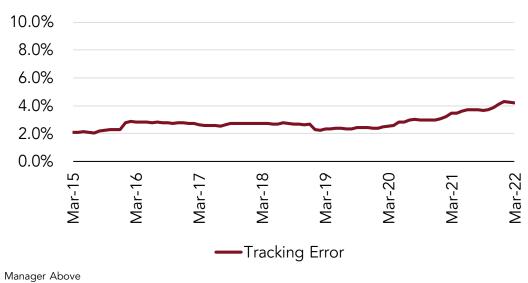
## Relative Returns & Risk 8.0% 6.0% 4.0% 2.0% 0.0%

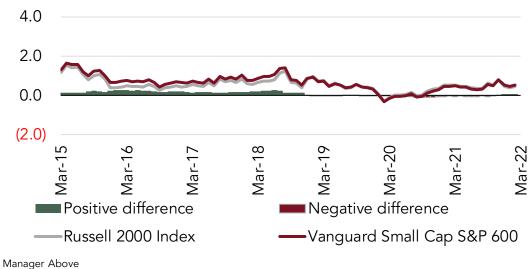


Manager Above











# Characteristics Virtus Kar Small Cap Fund

March 31, 2022

### Characteristics

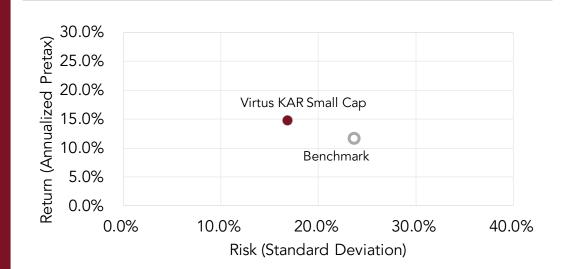
	Virtus KAR	Russell 2000	
Characteristic	12/31/21	3/31/22	3/31/22
No. of Securities	30	30	2,000
P/E Ratio	23.1x	21.1x	13.7x
Price/Book Ratio	4.7x	3.8x	2.4x
Avg Mkt Cap (\$B)	\$7.3	\$6.7	\$3.4
% in Top 10 Holdings	49.5%	46.5%	3.8%

## Mandate and Objective

- Actively managed equity index fund (PKSFX)
- Inception: March 2018
- Objective: Exceed performance of the Russell 2000 index.
- Annual Fee = 1.02%

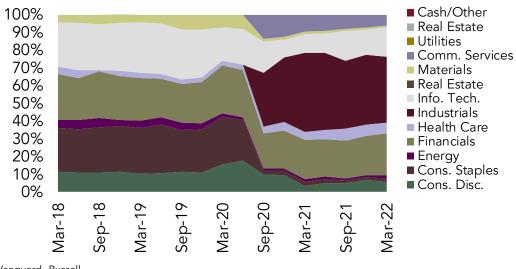
Vanguard, Russell

## Three-Year Risk/Return



Vanguard, Russell

## **Historical Region Distribution**





## Virtus Kar Small Cap Fund Characteristics

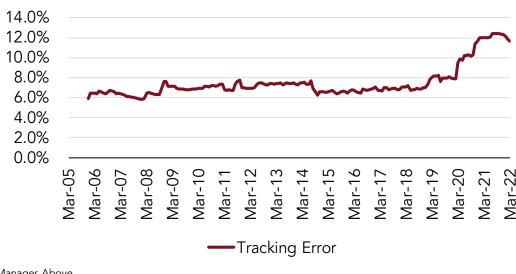
March 31, 2022

## Relative Returns & Risk



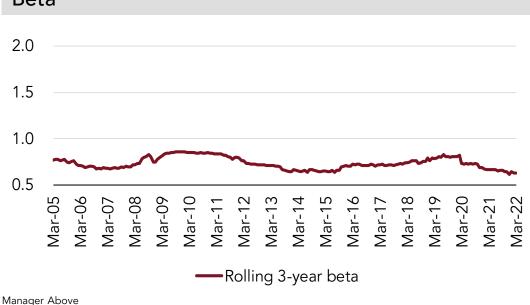
Manager Above

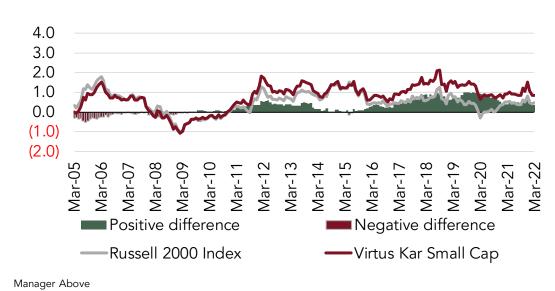
## **Tracking Error**



Manager Above

## Beta





## **International Equity**

## Net of Fees

	Market Value	%		One	Three	Five	Ten	Since	Inception
Portfolio	(\$000s)	Weight	Quarter	Year	Years	Years	Years	Inception	Date
International Equity Composite	\$54,120	4.2%	(8.79%)	(4.54%)	8.63%	7.35%	-	5.19%	May-13
Blended Benchmark <sup>2</sup>			(5.32%)	(0.81%)	<u>7.99%</u>	<u>6.76%</u>	-	<u>5.05%</u>	
Relative Performance			(3.47%)	(3.73%)	0.63%	0.59%	-	0.14%	
Vanguard Total International Stock Fund	\$29,697	2.3%	(6.07%)	(1.81%)	7.79%	6.83%	-	5.16%	May-13
FTSE Global All Cap ex US Index			(5.32%)	<u>(0.81%)</u>	<u>8.12%</u>	<u>6.99%</u>	-	<u>5.22%</u>	
Relative Performance			(0.75%)	(1.00%)	(0.33%)	(0.16%)	-	(0.05%)	
City of London	\$13,484	1.0%	(11.60%)	(6.25%)	9.56%	_	_	6.32%	Aug-18
FTSE Global All Cap ex US Index	ψ10,101	1.070	(5.33%)	(0.82%)	8.11%	_	_	5.26%	, ag 10
Relative Performance			(6.27%)	(5.43%)	1.45%	_	_	1.06%	
			(0.2.7)	(011010)					
EuroPacific Growth Fund	\$10,939	0.9%	(12.24%)	(9.34%)	8.39%	-	-	6.13%	Jul-18
FTSE Global All Cap ex US Index			(5.33%)	(0.82%)	<u>8.11%</u>	-	-	<u>5.76%</u>	
Relative Performance			(6.91%)	(8.53%)	0.28%	-	-	0.37%	

March 31, 2022



## Characteristics Vanguard Total International Stock Fund

March 31, 2022

### Characteristics

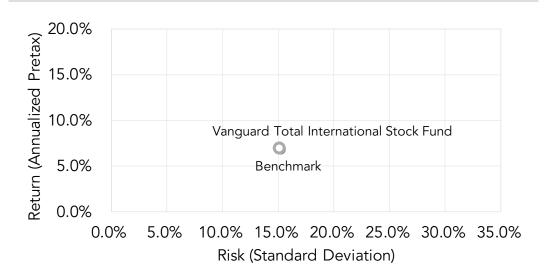
			1
	Vanguard To	tal Intl Stock	FTSE Global All
	Fu	nd	Cap ex US Index
Characteristic	12/31/21	3/31/22	3/31/22
No. of Holdings	7,742	7,896	7,618
P/E Ratio	14.8x	12.9x	13.1x
Price/Book Ratio	1.9x	1.7x	1.8x
Avg Mkt Cap (billion)	\$34.9	\$32.7	\$32.1
Dividend Yield	2.4%	2.7%	2.7%
Return on Equity	12.2%	12.4%	12.5%
% in Top 10 Holdings	9.6%	8.9%	8.9%

## Mandate and Objective

- Passively managed equity index fund (VTSNX)
- Inception: May 2013
- Objective: Match performance of the FTSE Global All Cap ex U.S. Index
- Annual Fee = 0.08%

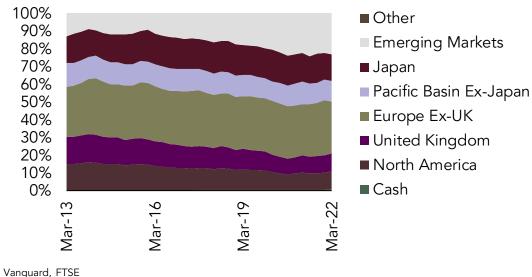
Vanguard, FTSE

## Five-Year Risk/Return



Vanguard, FTSE

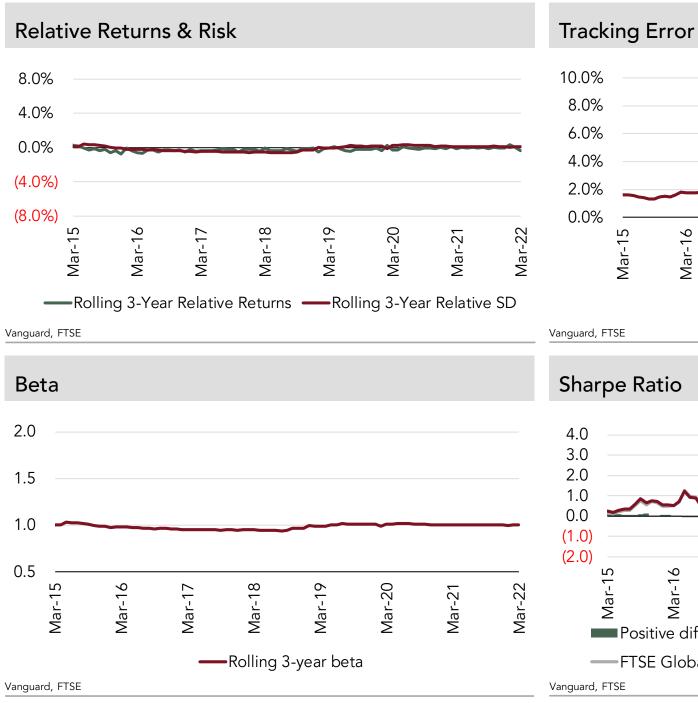
## Historical Country Distribution

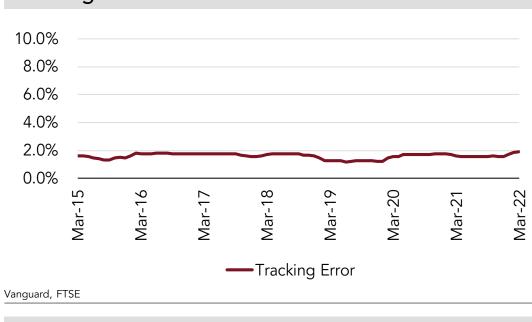


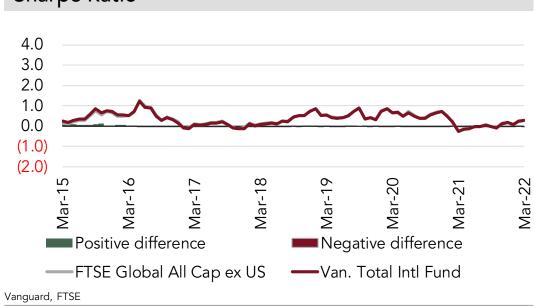


## Characteristics Vanguard Total International Stock Fund

March 31, 2022









## Characteristics City of London

March 31, 2022

### Characteristics

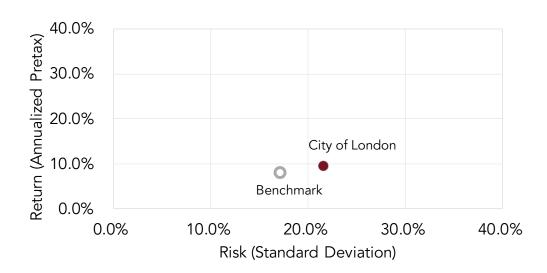
	City of	London	FTSE Global All Cap ex-US Index
Characteristic	12/31/21	3/31/22	3/31/22
No. of Holdings	50	52	7,618
P/E Ratio	16.4x	15.1x	13.1x
Price/Book Ratio	1.9x	1.8x	1.8x
Avg Mkt Cap (\$B)	\$18.7	\$18.2	\$32.1
Dividend Yield	2.1%	2.3%	2.7%
Return on Equity	11.8%	12.2%	12.5%
% in Top 10 Holdings	36.1%	35.7%	8.9%

## Mandate and Objective

- · Actively managed International Equity Commingled Fund
- Inception: August 2018
- Objective: Exceed total return of the FTSE Global All Cap ex U.S.
- Annual Fee = 0.70%

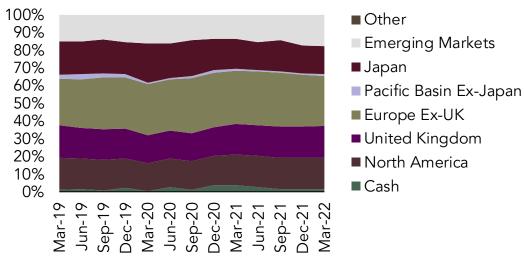
City of London, FTSE

## One-Year Risk/Return



City of London, FTSE

## Historical Regions Distribution



City of London, FTSE

46



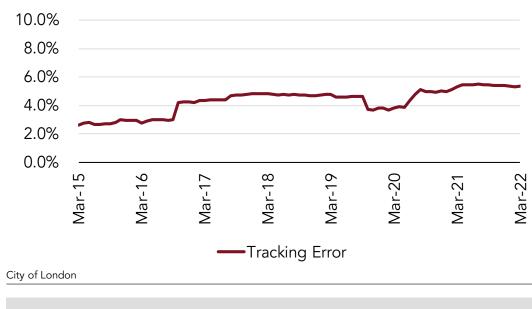
## Characteristics City of London

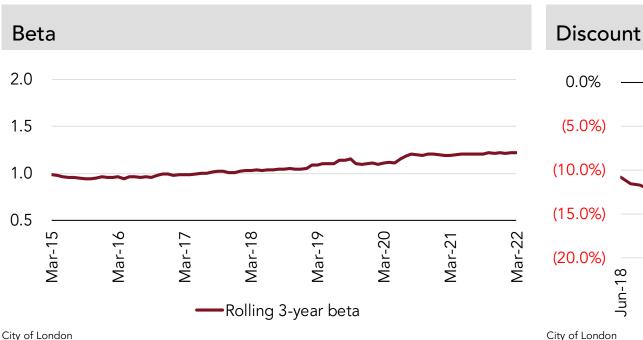
City of London

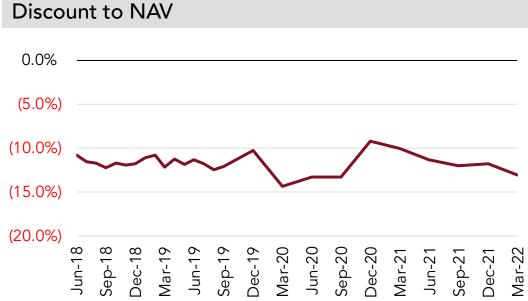
## March 31, 2022

## Relative Returns & Risk 8.0% 4.0% 0.0% (4.0%)(8.0%)Mar-16 Mar-19 Mar-20 Mar-22 Mar-17 Mar-21 Mar-15 -Rolling 3-Year Relative Returns -Rolling 3-Year Relative SD

**Tracking Error** 









## Characteristics EuroPacific Growth Fund

March 31, 2022

## Characteristics

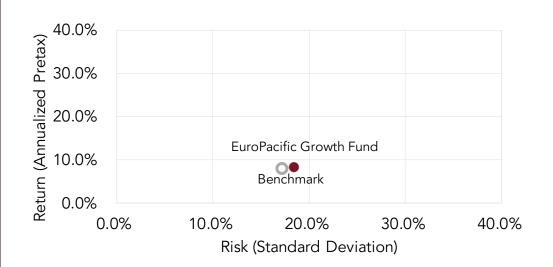
		Pacific	FTSE Global All Cap ex US Index
Characteristic	12/31/21	3/31/22	3/31/22
No. of Holdings	375	371	7,619
P/E Ratio	20.1x	17.1x	13.1x
Price/Book Ratio	2.5x	2.3x	1.8x
Avg Mkt Cap (\$B)	\$61.4	\$56.7	\$29.8
Dividend Yield	0.5%	0.6%	2.7%
Return on Equity	16.8%	17.4%	12.7%
% in Top 10 Holdings	21.3%	22.2%	9.4%

## Mandate and Objective

- Actively managed International equity fund (FEUPX)
- Inception: July 2018
- Objective: Exceed total return of the FTSE Global All Cap ex U.S.
- Annual Fee = 0.47%

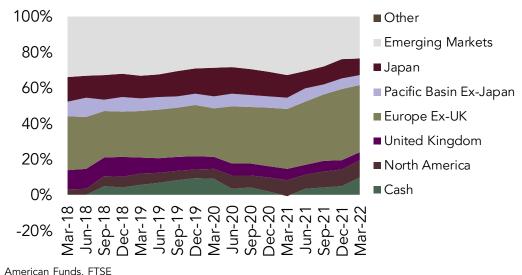
American Funds, FTSE

## Three-Year Risk/Return



American Funds, FTSE

## Historical Regions Distribution





## **EuroPacific Growth Fund** Characteristics

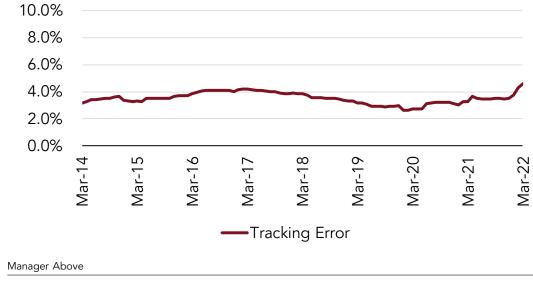
March 31, 2022

## Relative Returns & Risk

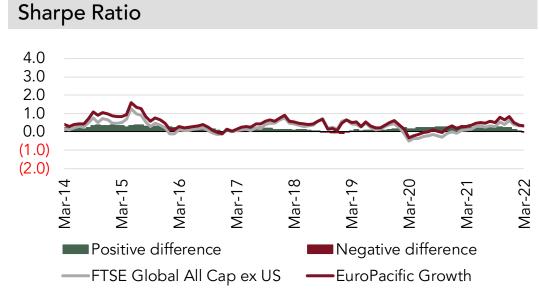


Manager Above

**Tracking Error** 



## Beta 2.0 1.5 1.0 0.5 Mar-15 Mar-19 Mar-20 Mar-16 Mar-18 Mar-22 Mar-17 Mar-21 ---Rolling 3-year beta



## Low Volatility

	Market Value	%		One	Three	Five	Ten	Since	Inception
Portfolio	(\$000s)	Weight	Quarter	Year	Years	Years	Years	Inception	Date
Vanguard Global Minimum Volatility	\$65,050	5.1%	(2.88%)	5.45%	-	-	-	2.56%	Dec-19
FTSE All-World Index			(5.26%)	<u>7.05</u> %	-	-	-	<u>13.55</u> %	
Relative Performance			2.39%	(1.60%)	-	-	-	(10.99%)	

### Wells Fargo, Vanguard, Cardinal

• The Vanguard Global Minimum has underperformed for all reporting time periods except for the current quarter.



# Characteristics Vanguard Minimum Volatility

March 31, 2022

### Characteristics

	Vanguard	FTSE All-World	
Characteristic	12/31/2021	3/31/22	3/31/22
No. of Securities	284	272	4,130
P/E Ratio	21.2x	17.8x	17.4x
Price/Book Ratio	3.2x	2.7x	2.7x
Avg Mkt Cap (\$B)	\$29.7	\$32.7	\$16.2
% in Top 10 Holdings	16.7%	16.1%	16.5%

## Mandate and Objective

- Passively managed equity index fund (VMNVX)
- Inception; November 2019
- Objective: Exceed total return of the FTSE All-World Index
- Annual Fee = 0.14%

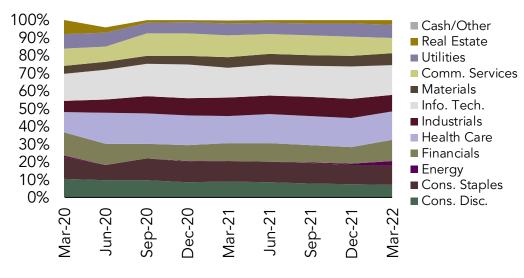
Vanguard, FTSE

## One-Year Risk/Return



Vanguard, FTSE

## **Historical Sector Distribution**



Vanguard,FTSE



# Characteristics Vanguard Minimum Volatility

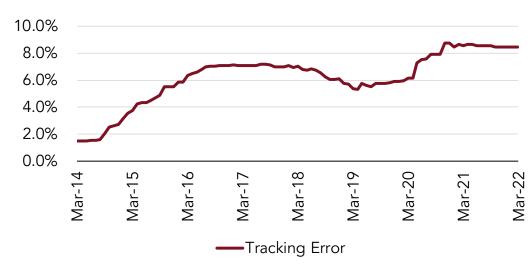
March 31, 2022

## Relative Returns & Risk

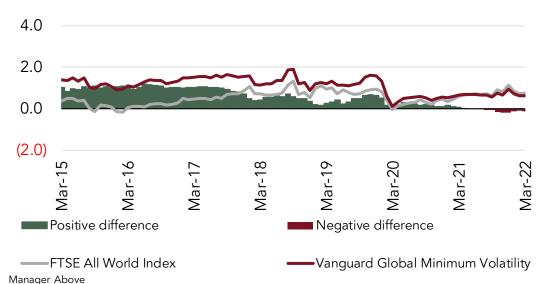


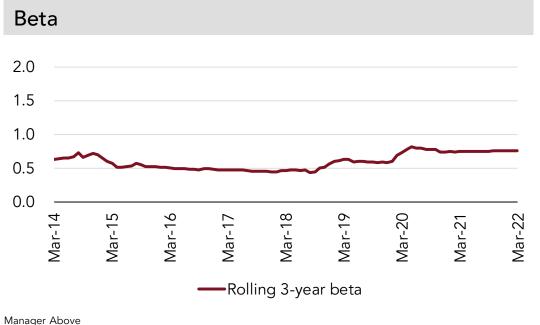
Manager Above

## Tracking Error



Manager Above







## Private Real Estate – Modified Dietz

	Market Value	%		One	Three	Five	Ten	Since	Inception
Portfolio	(\$000s)	Weight	Quarter	Year	Years	Years	Years	Inception	Date
Private Real Estate Composite	\$110,676	8.6%	7.83%	29.13%	-	-	-	13.99%	Jan-20
Blended Benchmark <sup>2</sup>			<u>7.69%</u>	<u>28.01%</u>	-	-	-	<u>13.29%</u>	
Relative Performance			0.14%	1.12%	-	-	-	0.71%	
Invesco US Income Fund LP NCREIF Open End Diversified Core Relative Performance	\$27,020	2.1%	6.84% 7.69% (0.85%)	27.75% 28.01% (0.26%)	- - -	- - -	- - -	15.30% <u>13.29%</u> 2.02%	Jan-20
AEW Core Property Trust  NCREIF Open End Diversified Core  Relative Performance	\$83,657	6.5%	8.19% 7.69% 0.50%	28.69% 28.01% 0.68%	- - -	- - -	- - -	17.99% <u>17.30%</u> 0.69%	Jul-20

Wells Fargo, AEW, Invesco, Cardinal

• Private Real Estate Composite outperformed for all reporting time periods. Since inception Invesco outperformed the relative benchmark by 202 bps and AEW outperformed by 69 bps.



# Characteristics Invesco U.S. Income Fund

March 31, 2022

### Characteristic

Invesco U.S. Income Fund

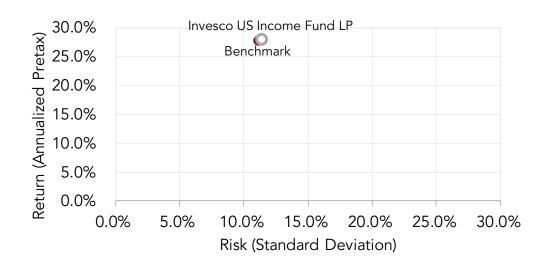
11110000 0.0.	income rana
12/31/21	3/31/22
28	28
\$3.5M	\$4.1M
95.2%	94.9%
\$224.2	\$137.1
5.3%	5.2%
	12/31/21 28 \$3.5M 95.2% \$224.2

## Mandate

- · Actively managed private real estate fund
- Inception: January 2020
- Objective: Exceed total return of the MSCI U.S. REIT
- Annual Fee = 1.20% on the first \$50M, and 1.10% from \$50M-100M and then 1.00% for the remaining.

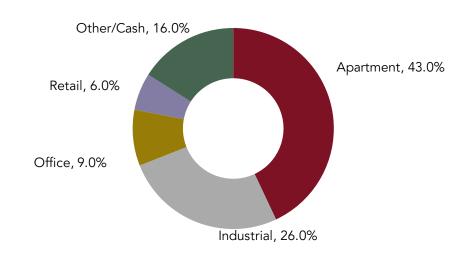
Invesco

## One-Year Risk/Return



Invesco

## Property Type Breakdown



Invesco



## Characteristics AEW Core Property Trust

March 31, 2022

## Characteristic

	<b>AEW Core Trust Fund</b>					
Chracteristic	12/31/21	3/31/22				
Investors	382	414				
Gross Asset Value	\$7.1M	\$10.7M				
Portfolio Leased	95.0%	97.0%				
Contributions	\$64.0M	\$58.0				
Weighted Avg Int. Rate	3.5%	3.4%				

## Mandate

- · Actively managed private real estate fund
- Inception: July 2020
- Objective: Exceed total return of the MSCI U.S. REIT
- Annual Fee = 1.10% on the first \$10M, and 1.10% from \$10M-25M and then 0.85% from \$25-\$50M, 0.80% from \$50M-\$100M, and 0.75 over \$100M

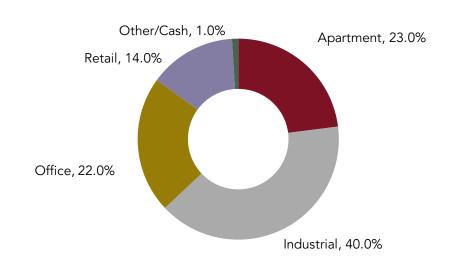
AEW

## One-Year Risk/Return



AEW

## Property Type Breakdown





## Endnotes

<sup>1</sup>The blended benchmark consists of a target-weighted blend of the underlying portfolio benchmarks.

<sup>2</sup>The blended benchmark consists of a market-weighted blend of the underlying portfolio benchmarks.

**Endnotes** 

March 31, 2022