



# FIRST QUARTER 2022 EXECUTIVE SUMMARY

METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY 457 PLAN



MAY 25, 2022

Dan Beaton, iC(k)P, Senior Consultant Lamech Palmer, Consulting Analyst

# FIDUCIARY CALENDAR | ACTION PLAN\*

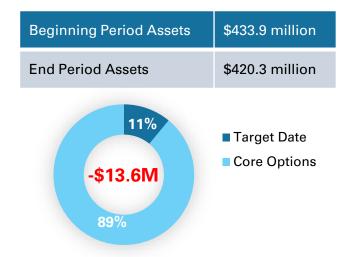
Category	Fiduciary Practice	Recommended Review Frequency	Last Completed	Next Review Date
Investments	Review investment performance	Quarterly	Quarterly	Q1 2022
mvestillents	Review the Plans' Target Date	Periodically	Q1 2021	-
	Review investment structure	Every 2 – 3 years	Q4 2021	-
	Evaluate investment expenses	Annually	Q3 2021	Q3 2022
Fees and Expenses	Evaluate record keeping expenses	RFI/RFP every 3-5 years or with contract expiry	Q3 2021	Q3 2022
Governance	Review Investment Policy(s)	Annually	Q2 2021	Q2 2022
Governance	Provide fiduciary training as needed	Periodically	Ongoing	Ongoing



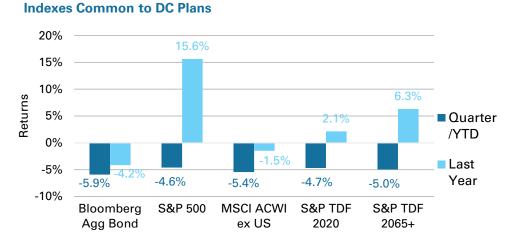
Notes: The Fiduciary Calendar | Action Plan as shown above is intended to be a "living document", refreshed quarterly to capture the timing of certain planned items and Committee decisions, and record changes and/or revisions as necessary.

### **EXECUTIVE SUMMARY**

### AS OF MATCH 31, 2022



#### Capital Market Performance Summary



#### Manager Due Diligence

There were two announcements from plan managers this quarter, neither requiring any action.

Please refer to the Due Diligence Monitor for details.

#### Recent Actions | Recommendations

The Vanguard® Institutional Target Retirement Funds – Institutional Shares merged into Vanguard® Target Retirement Funds - Investor Shares on February 11, 2022. The expense ratio dropped from 9 bps to 8 bps as a result of this change.

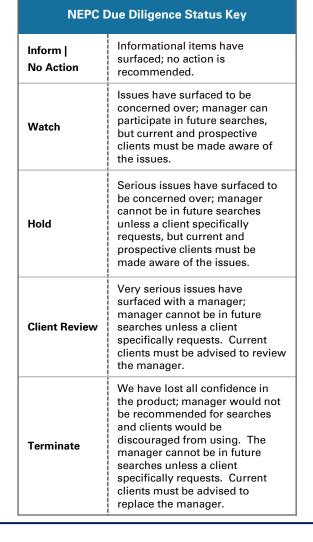
The Board voted to remove the Voya Small Company Port I and replace it with the Segall Bryant & Hamill Small Cap Core. The fund change will go into effect on June 15, 2022.



## **DUE DILIGENCE EVENT SUMMARY**

Plan Investment Option	NEPC Status	NEPC Consultant Recommendations
Target Date Vanguard Instl Target Retirement	No Action	No Action Recommended
Core Funds Voya Fixed Plus Account III	-	No Action Recommended
PIMCO Total Return Instl	Firm Watch	No Action Recommended
PIMCO Dynamic Bond Instl	Firm Watch	No Action Recommended
Principal Diversified Real Asset Instl	No Action	No Action Recommended
Dodge & Cox Stock	-	No Action Recommended
Vanguard Institutional Index I	-	No Action Recommended
Vanguard PRIMECAP Adm	-	No Action Recommended
Vanguard Mid Cap Index Institutional	-	No Action Recommended
Voya Small Company Port I	-	No Action Recommended
Dodge & Cox International Stock	-	No Action Recommended
Vanguard Total Intl Stock Idx Adm	-	No Action Recommended
American Funds Cap Wrld Gr&Inc R6	-	No Action Recommended
Nuveen Real Estate Securities R6	-	No Action Recommended

Notes: NEPC Status are our ratings, if any, as attached to a recent corporate action, announcement or event, such as a portfolio manager change. Your Consultant's recommendations are refreshed quarterly in recognition of the recent quarter's developments (performance, status changes and any of the longer-term trending data in this report).





# **DUE DILIGENCE EVENT SUMMARY**

Manager   Product	New Updates	NEPC Status
Vanguard Instl Target Retirement	Vanguard provided an update on leadership changes within their Fixed Income Group.  Sara Devereux succeeded John Hollyer, as global head of Vanguard's Fixed Income Group in mid-2021. She has direct oversight responsibility for all money market, bond, and stable value portfolios managed by the Fixed Income Group, including investments in U.S.  Treasury, corporate, and tax-exempt securities, and passively-managed index portfolios. She replaces John Hollyer, principal and global head of Vanguard Fixed Income Group, who retired in June 2021 after a 32-year career at Vanguard.  - Ms. Devereux joined Vanguard in October 2019, leaving Goldman Sachs with 20 years' experience in mortgage-backed securities and structured products trading and sales. Earlier in her career, she worked at HSBC in risk management advisory and interest rate derivatives structuring. She started her career as an actuary at AXA Equitable Life Insurance.  - Ms. Devereux has over 25 years of experience in the financial services industry and holds a B.S. in Mathematics from the University of North Carolina at Chapel Hill, and an MBA from the Wharton School at the University of Pennsylvania.	Inform Only (No Action)



# **DUE DILIGENCE EVENT SUMMARY**

Manager   Product	New Updates	NEPC Status
Principal Diversified Real Asset Instl	NEPC was notified on March 23, 2022, of team changes for the Principal Global Asset Allocation Dynamic Outcome team. The Diversified Real Asset strategy, 2-rated on the Liquid Real Asset FPL, is part of the Dynamic Outcome team. Mark Dummer and Kelly Grossman will no longer be named portfolio managers on the Diversified Real Asset strategy effective September 30, 2022.  Marc Dummer has been selected to lead a newly created client portfolio management team. In addition to Marc's responsibilities for supporting PGAA investment strategies, his team will also focus on custom and model portfolio solutions. Kelly Grossman has been named Managing Director – Head of Investment Analytics within Principal Global Advisors, a newly created offering for the U.S. Institutional OCIO market.  Going forward, May Tong will lead the Dynamic Outcome team. Tong joined Principal in 2021 and has been focused on better integrating the firm's global alpha pillars (Global Insights, Manager Research and Risk/Analytics) and incorporating them in a more consistent investment framework across the Dynamic Outcome team.  Brody Dass and Ryan Fitzgerald, the strategy's two dedicated investment analysts, departed the team in January 2022. Brody Dass accepted an associate portfolio manager position within PGAA, and Ryan Fitzgerald accepted an analyst position on PGI's ESG team. As a result, Maria Gavilanes and Mike Messina were added to the team as investment analysts in January 2022 and March 2022, respectively.  Additionally, the Diversified Real Asset Strategic index has changed names and underlying allocation weighting. The index will now be linked and named Diversified Real Asset Index. Index weights will be changed to match strategic allocation targets (effective January 1, 2022). As a result of these changes, the volatility target will increase from 10-12% to the 12-15% range. An average volatility of 13.5% is expected. The team is also implementing a risk aware portfolio construction approach. Guard rails for rebalancing will differ depen	Inform Only (No Action)



# **ASSET SUMMARY**

Periods Ending 31-Mar-22	Beginning Year (\$000)	(%)	Beginning Quarter (\$000)	(%)	End Quarter (\$000)	(%)
Composite	\$433,900	100%	\$433,900	100%	\$420,290	100%
Target Date Funds <sup>1</sup>	\$46,004	11%	\$46,004	11%	\$44,195	11%
Vanguard Target Retirement Income Fund	\$315	0%	\$315	0%	\$304	0%
Vanguard Target Retirement 2015 Fund	\$843	0%	\$843	0%	\$803	0%
Vanguard Target Retirement 2020 Fund	\$1,089	0%	\$1,089	0%	\$1,251	0%
Vanguard Target Retirement 2025 Fund	\$5,467	1%	\$5,467	1%	\$5,147	1%
Vanguard Target Retirement 2030 Fund	\$4,218	1%	\$4,218	1%	\$3,944	1%
Vanguard Target Retirement 2035 Fund	\$10,080	2%	\$10,080	2%	\$9,569	2%
Vanguard Target Retirement 2040 Fund	\$4,625	1%	\$4,625	1%	\$4,374	1%
Vanguard Target Retirement 2045 Fund	\$9,867	2%	\$9,867	2%	\$9,584	2%
Vanguard Target Retirement 2050 Fund	\$5,862	1%	\$5,862	1%	\$5,630	1%
Vanguard Target Retirement 2055 Fund	\$3,419	1%	\$3,419	1%	\$3,345	1%
Vanguard Target Retirement 2060 Fund	\$219	0%	\$219	0%	\$244	0%
Vanguard Target Retirement 2065 Fund	\$38	0%	\$38	0%	\$53	0%
Core Funds	\$386,802	89%	\$386,802	89%	\$375,438	89%
Voya Fixed Plus Account III	\$130,452	30%	\$130,452	30%	\$132,517	32%
PIMCO Total Return Instl	\$7,948	2%	\$7,948	2%	\$7,677	2%
PIMCO Dynamic Bond Instl	\$1,503	0%	\$1,503	0%	\$1,396	0%
Principal Diversified Real Asset Instl	\$518	0%	\$518	0%	\$662	0%
Dodge & Cox Stock	\$19,069	4%	\$19,069	4%	\$18,579	4%
Vanguard Institutional Index I	\$41,677	10%	\$41,677	10%	\$39,885	9%
Vanguard PRIMECAP Adm	\$95,138	22%	\$95,138	22%	\$90,478	22%
Vanguard Mid Cap Index Institutional	\$51,406	12%	\$51,406	12%	\$47,654	11%
Voya Small Company Port I	\$12,538	3%	\$12,538	3%	\$11,891	3%
Dodge & Cox International Stock	\$2,177	1%	\$2,177	1%	\$2,190	1%
Vanguard Total Intl Stock Index Admiral	\$2,298	1%	\$2,298	1%	\$2,256	1%
American Funds Capital World Gr&Inc R6	\$16,376	4%	\$16,376	4%	\$15,132	4%
Nuveen Real Estate Securities R6	\$5,701	1%	\$5,701	1%	\$5,121	1%
TD Ameritrade - Brokerage	\$1,095	0%	\$1,095	0%	\$657	0%



 $^{1}$ The Vanguard Target Date funds were merged on February 11, 2022.

### TARGET DATE

							Annu	alized Re	eturns		_
	Morningstar Universe	Three Month	Rank	One Year	Rank	Three Years	Rank	Five Years	Rank	Ten Years	Rank
Target Date Funds											
Vanguard Target Retirement Income Fund	Target-Date Retirement	-4.8	52	0.1	49	5.8	44	5.3	41	5.0	37
Vanguard Target Income Composite Index		-4.6		0.5		6.1		5.6		5.2	
Vanguard Target Retirement 2015 Fund	Target-Date 2015	-4.8	35	0.4	74	6.2	81	5.9	78	6.2	67
Vanguard Target 2015 Composite Index		-4.6		0.7		6.6		6.3		6.5	
Vanguard Target Retirement 2020 Fund	Target-Date 2020	-5.1	43	1.4	50	7.9	47	7.3	39	7.3	29
Vanguard Target 2020 Composite Index		-4.9		1.8		8.3		7.6		7.6	
Vanguard Target Retirement 2025 Fund	Target-Date 2025	-5.5	48	1.9	42	8.9	38	8.1	32	8.0	19
Vanguard Target 2025 Composite Index		-5.2		2.4		9.5		8.6		8.4	
Vanguard Target Retirement 2030 Fund	Target-Date 2030	-5.6	35	2.5	47	9.8	46	8.9	42	8.7	23
Vanguard Target 2030 Composite Index		-5.3		3.1		10.4		9.3		9.0	
Vanguard Target Retirement 2035 Fund	Target-Date 2035	-5.7	25	3.3	44	10.8	50	9.6	48	9.3	28
Vanguard Target 2035 Composite Index		-5.3		3.9		11.4		10.0		9.7	



Notes: Performance is net of fees and is annualized for periods longer than one year. Performance is ranked within Morningstar's style-specific universes, where "1" refers to the top percentile and "100" the bottom percentile.

### TARGET DATE CONT'D

					_		Annu	alized Re	eturns		_
	Morningstar Universe	Three Month	Rank	One Year	Rank	Three Years	Rank	Five Years	Rank	Ten Years	Rank
Target Date Funds											
Vanguard Target Retirement 2040 Fund	Target-Date 2040	-5.7	28	4.1	47	11.7	50	10.3	41	9.9	28
Vanguard Target 2040 Composite Index		-5.3		4.8		12.3		10.7		10.2	
Vanguard Target Retirement 2045 Fund	Target-Date 2045	-5.7	25	4.9	42	12.6	36	10.9	33	10.2	19
Vanguard Target 2045 Composite Index		-5.3		5.6		13.2		11.3		10.6	
Vanguard Target Retirement 2050 Fund	Target-Date 2050	-5.7	26	5.1	41	12.7	38	11.0	37	10.2	19
Vanguard Target 2050 Composite Index		-5.2		5.8		13.4		11.4		10.6	
Vanguard Target Retirement 2055 Fund	Target-Date 2055	-5.7	23	5.0	43	12.7	42	10.9	45	10.2	24
Vanguard Target 2055 Composite Index		-5.2		5.8		13.4		11.4		10.6	
Vanguard Target Retirement 2060 Fund	Target-Date 2060	-5.7	25	5.1	42	12.7	52	10.9	51	10.2	1
Vanguard Target 2060 Composite Index		-5.2		5.8		13.4		11.4		10.6	
Vanguard Target Retirement 2065 Fund	Target-Date 2065+	-5.6	21	5.1	40	12.7	57	n/a		n/a	
Vanguard Target 2065 Composite Index		-5.2		5.8		13.4		n/a		n/a	



Notes: Performance is net of fees and is annualized for periods longer than one year. Performance is ranked within Morningstar's style-specific universes, where "1" refers to the top percentile and "100" the bottom percentile.

#### **CORE FUNDS**

					=		Annu	alized Re	eturns		=
	Morningstar Universe	Three Month	Rank	One Year	Rank	Three Years	Rank	Five Years	Rank	Ten Years	Rank
Capital Preservation											
Voya Fixed Plus Account III		0.6		2.4		2.6		2.8		n/a	
RL 3 Yr GIC		0.3		1.6		2.1		1.8		1.5	
Fixed Income											
PIMCO Total Return Instl	Intermediate Core-Plus Bond	-6.2	65	-4.0	50	2.2	49	2.5	43	2.7	47
Bloomberg US Agg Bond TR USD		-5.9		-4.2		1.7		2.1		2.2	
PIMCO Dynamic Bond Instl	Nontraditional Bond	-3.1	61	-3.6	82	1.7	63	2.5	41	2.6	46
ICE LIBOR 3 Month USD		0.1		0.2		0.9		1.3		0.9	
Real Assets											
Principal Diversified Real Asset Instl	Global Allocation	5.7	9	19.1	8	10.9	11	7.8	20	4.6	81
Diversified Real Asset Index <sup>1</sup>		6.8		19.0		10.1		7.7		4.3	
Large Cap Equity											
Dodge & Cox Stock	Large Value	1.0	29	14.9	26	17.3	10	13.3	11	14.2	2
Russell 1000 Value TR USD		-0.7		11.7		13.0		10.3		11.7	
Vanguard Institutional Index I	Large Blend	-4.6	33	15.6	17	18.9	19	16.0	15	14.6	9
S&P 500 TR USD		-4.6		15.6		18.9		16.0		14.6	
Vanguard PRIMECAP Adm	Large Blend	-4.6	36	5.6	92	16.3	65	15.4	31	15.9	1
Russell 1000 Growth TR USD		-9.0		15.0		23.6		20.9		17.0	

Notes: Performance is net of fees and is annualized for periods longer than one year. Performance is ranked within Morningstar's style-specific universes, where "1" refers to the top percentile and "100" the bottom percentile.





#### CORE FUNDS CONT'D

							Annu	alized Re	eturns		_
	Morningstar Universe	Three Month	Rank	One Year	Rank	Three Years	Rank	Five Years	Rank	Ten Years	Rank
Small-Mid Cap Equity											
Vanguard Mid Cap Index Institutional	Mid-Cap Blend	-6.3	73	8.8	25	15.7	14	13.0	10	12.9	10
Vanguard Mid Cap Spliced Index <sup>2</sup>		-6.3		8.9		15.7		13.0		13.0	
Voya Small Company Port I	Small Blend	-5.1	29	-1.7	77	10.5	82	7.0	90	10.3	69
Russell 2000 TR USD		-7.5		-5.8		11.7		9.7		11.0	
International Equity											
Dodge & Cox International Stock	Foreign Large Value	-0.6	32	3.0	41	8.0	21	5.2	37	6.2	15
MSCI EAFE NR USD		-5.9		1.2		7.8		6.7		6.3	
Vanguard Total Intl Stock Index Admiral	Foreign Large Blend	-6.1	33	-1.9	58	7.8	41	6.8	38	5.8	51
Vanguard Total Int'l Stock Custom Index <sup>3</sup>		-5.3		-0.7		8.2		7.1		6.0	
American Funds Capital World Gr&Inc R6	Global Large-Stock Blend	-7.5	70	2.0	80	11.4	63	10.2	58	9.9	42
MSCI ACWI NR USD		-5.4		7.3		13.8		11.6		10.0	
Real Estate											
Nuveen Real Estate Securities R6	Real Estate	-3.8	27	27.1	18	11.4	52	9.9	47	9.8	30
MSCI US REIT NR USD		-4.3		25.0		9.9		8.4		8.4	

Notes: Performance is net of fees and is annualized for periods longer than one year. Performance is ranked within Morningstar's style-specific universes, where "1" refers to the top percentile and "100" the bottom percentile.

<sup>2</sup>The Vanguard Mid Cap Spliced Index is comprised of the S&P MidCap 400 Index through May 16, 2003; MSCI US Mid Cap 450 Index through January 30, 2013; CRSP US Mid Cap Index thereafter. <sup>3</sup>The Vanguard total Int'l Stock Custom Index is comprised of the MSCI EAFE + Emerging Markets Index through December 15, 2010; MSCI ACWI ex USA IMI Index through June 2, 2013; and FTSE Global All Cap ex US Index thereafter





# **CAPITAL MARKETS PERFORMANCE SUMMARY**

### AS OF MARCH 31, 2022

Annualized as of 03/31/20	022	Qtr.	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.
<b>Domestic Equity Benchm</b>	narks	Qtr.	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.
Large Core	S&P 500	-4.6%	-4.6%	15.6%	18.9%	16.0%	14.6%
Large Growth	Russell 1000 Growth	-9.0%	-9.0%	15.0%	23.6%	20.9%	17.0%
Large Value	Russell 1000 Value	-0.7%	-0.7%	11.7%	13.0%	10.3%	11.7%
Mid Core	S&P Mid Cap 400	-4.9%	-4.9%	4.6%	14.1%	11.1%	12.2%
Small Core	Russell 2000	-7.5%	-7.5%	-5.8%	11.7%	9.7%	11.0%
Small Growth	Russell 2000 Growth	-12.6%	-12.6%	-14.3%	9.9%	10.3%	11.2%
Small Value	Russell 2000 Value	-2.4%	-2.4%	3.3%	12.7%	8.6%	10.5%
<b>Int'l Equity Benchmarks</b>		Qtr.	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.
World ex-US	MSCI ACWI ex-US	-5.4%	-5.4%	-1.5%	7.5%	6.8%	5.6%
International Developed	MSCI EAFE	-5.9%	-5.9%	1.2%	7.8%	6.7%	6.3%
Emerging Equity	MSCI EM	-7.0%	-7.0%	-11.4%	4.9%	6.0%	3.4%
Small Cap Int'l	S&P EPAC SmallCap	-9.5%	-9.5%	-5.4%	8.2%	7.1%	8.3%
<b>Domestic Fixed Income B</b>	Benchmarks	Qtr.	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.
Core Bonds	Bloomberg US Agg	-5.9%	-5.9%	-4.2%	1.7%	2.1%	2.2%
Cash	ICE BofAML US 3M T-Bill	0.0%	0.0%	0.1%	0.8%	1.1%	0.6%
Inflation	Bloomberg US TIPS 1-10 Yr	-1.7%	-1.7%	3.8%	5.5%	3.9%	2.2%
Long Treasuries	Bloomberg US 20+ Yr Treas	-11.0%	-11.0%	-1.1%	3.4%	4.0%	4.1%
Long Credit	Bloomberg Long Credit	-11.2%	-11.2%	-4.2%	4.4%	4.8%	5.1%
High Yield	Bloomberg US High Yield	-4.8%	-4.8%	-0.7%	4.6%	4.7%	5.7%
<b>Global Fixed Incom Benc</b>	<u>hmarks</u>	<u> Otr.</u>	<u>YTD</u>	<u>1 Yr.</u>	<u>3 Yr.</u>	<u>5 Yr.</u>	<u> 10 Yr.</u>
World Gov. Bonds	FTSE WGBI	-6.5%	-6.5%	-7.7%	-0.1%	1.3%	0.3%
Em. Mkt. Bonds (Local)	JPM GBI-EM Glob. Div.	-6.5%	-6.5%	-8.5%	-1.1%	0.2%	-0.7%
Global Inflation	Bloomberg Global ILB	-4.4%	-4.4%	1.6%	4.8%	4.2%	2.7%
<b>Alternative Benchmarks</b>		<u> Otr.</u>	<u>YTD</u>	<u>1 Yr.</u>	<u>3 Yr.</u>	<u>5 Yr.</u>	<u> 10 Yr.</u>
Commodities	Bloomberg Commodity Index	25.5%	25.5%	49.3%	16.1%	9.0%	-0.7%
REIT	NAREIT Composite	-5.2%	-5.2%	22.3%	11.1%	10.3%	10.2%
Real Estate	NCREIF Property Index**	6.2%	17.7%	17.7%	8.4%	7.8%	9.3%



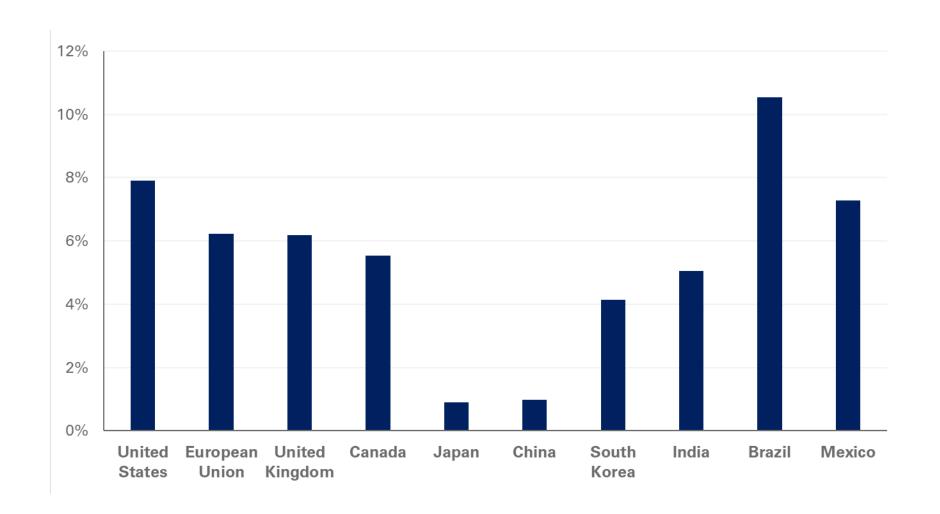
## **VOLATILE START TO THE YEAR FOR EQUITIES**





Source: S&P, MSCI, FactSet

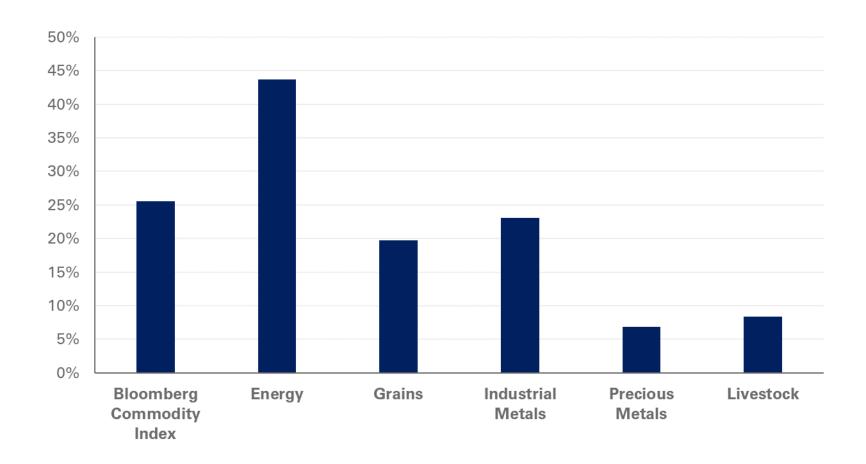
# MOST ECONOMIES PLAGUED BY HIGHER INFLATION





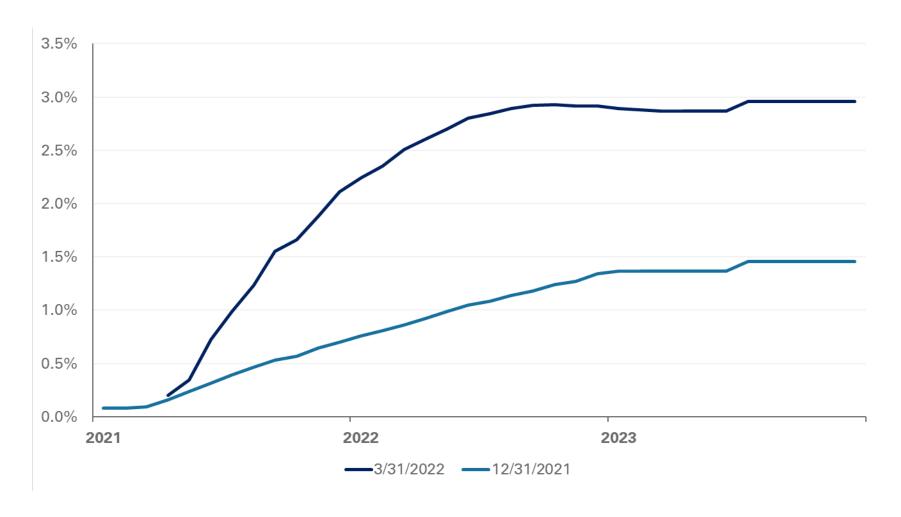
Data as of 2/28/2022; South Korea data as of 3/31/2022 Source: FactSet

# **ENERGY DROVE COMMODITIES HIGHER**





## THE MARKET EXPECTS NINE RATE HIKES IN 2022





Source: FactSet



# **LEGAL &** REGULATORY **UPDATE**

NEPC does not provide legal advice. We have identified selected legal and regulatory items that may be of interest to our broad client base. The law is constantly changing as a result of new statutes, regulations, rulings and court decisions, and good governance practices start with being informed. The following pages are not intended to constitute advice or recommendations to any individual plan or Committee.

### **LEGAL & REGULATORY UPDATE**

#### FIRST QUARTER SUMMARY



# Hughes vs. Northwestern University Supreme Court Decision

- On January 24, 2022, the Supreme Court vacated the ruling of the U.S. Court of Appeals and remanded the case for further proceedings
- Before the ruling, there was hope that the Supreme Court would provide further guidance on the evidence needed for a fiduciary breach claim to move forward
- Unfortunately, the ruling does little to stem the continued flow of class action cases



# Department of Labor Compliance Assistance Release on Cryptocurrency

- On March 10<sup>th</sup>, the DoL itemized their serious concerns about exposing participants to direct investments in cryptocurrencies
- They messaged that they expect to commence an investigative program aimed at questioning plan fiduciaries that offer cryptocurrencies in their retirement plan or through brokerage what their basis was to do so
- This would seem contrary to previous DoL guidance that fiduciaries have no duty to monitor or evaluate the underlying investments in self-directed brokerage



#### WEBINAR SERIES

NEPC is partnering with ERISA attorneys at Faegre Drinker to provide a legal & regulatory update on June 13, 2022 (details to follow)



### **HUGHES VS. NORTHWESTERN UNIVERSITY**

#### SUPREME COURT DECISION



Background



Plaintiffs, collectively known as "Hughes," filed a lawsuit in the U.S. district court against Northwestern University, alleging that plan administrators violated their statutory duty of prudence (under ERISA). The U.S. Court of Appeals of the 7<sup>th</sup> Circuit affirmed the district court's ruling and the case was then brought to the U.S. Supreme Court.

**Allegations** 



Plaintiffs alleged that plan administrators failed to monitor/control recordkeeping costs leading to higher admin costs, offered retail share classes of mutual funds and annuities that had higher fees, and offered too many options – over 400 in total - that were likely to confuse participants.

**Outcome** 



In an 8-0 ruling, on January 24, 2022, the Supreme Court vacated the ruling of the U.S. Court of Appeals for the 7<sup>th</sup> Circuit and remanded the case for further proceedings.

**SCOTUS Opinion** 



Justice Sotomayor delivered the opinion of the Court, which clarified the standards on which claims against fiduciaries must be judged:

• **Duty of prudence**: The duty to act prudently is one of a fiduciary's central responsibilities under ERISA. Plan fiduciaries must conduct their own independent evaluation to determine which investments may be prudently included in a plan's menu. Fiduciaries should not rely on participants' ability to choose among prudent and imprudent investments.

• **Specificity**: The opinion reaffirms that the court must look at the specific allegations to determine whether a complaint alleges a fiduciary breach.

**Implications** 



The Supreme Court's ruling likely ensures a continued flow of class action cases. Having a large investment menu is not imprudent per se, provided fiduciaries exercise prudent processes in selecting and retaining investment options. There is a duty to monitor plan investments.



Source: Hughes vs. Northwestern, 19-1401 U.S. (2022)

# **CAUTION ON "CRYPTO" IN 401(K) PLANS**

#### COMPLIANCE ASSISTANCE RELEASE NO. 2022-01



**Background** 



The Department of Labor (DoL) indicated in recent months they've become aware of firms marketing cryptocurrency investments to 401(k) plans as potential investment options for participants.

**Guidance Issued** 



On March 10, 2022 the DoL issued a "compliance assistance" document cautioning fiduciaries to "exercise extreme care" before they consider adding a cryptocurrency option as an investment option for participants.

**Explanation** 



The release explains that fiduciaries may be liable for breaching their fiduciary duties under ERISA, which includes selecting/retaining prudent investments. The release also cites *Hughes vs. Northwestern*, reiterating that even in a defined-contribution plan where participants choose their investments, plan fiduciaries are required to conduct their own independent evaluation to determine which investments may be prudently included in the plan's menu of options.

Concerns



The DoL itemized their serious concerns about exposing participants to direct investments in cryptocurrencies or other products whose value is tied to cryptocurrencies. Cryptocurrencies present significant risks including fraud, theft, and loss due to:

- their extreme price volatility



- custodial/recordkeeping concerns as cryptocurrencies generally exist as lines of computer code
- the reliability and accuracy of cryptocurrency valuations
- the evolving regulatory environment

**Implications** 



The two-page document messages that the DoL expects to conduct an *investigative program* aimed at questioning plan fiduciaries that offer crypocurrencies in the plan or through brokerage windows "how they can square their actions" with their duties of prudence and loyalty.



Source: U.S. Department of Labor. "Compliance Assistance Release No. 2022-01 401(k) Plan Investments in 'Cryptocurrencies.'"



**VTINX** Vanguard Target Income Composite Index **US Fund Target-Date Retirement Top Holdings - Vanguard Target Retirement Income Fund Risk & Return Illustration (5 Years)** Portfolio Date: 3/31/2022 Time Period: 4/1/2017 to 3/31/2022 Vanguard Target Retirement Income Fund 7.0 Return Broad Return Portfolio 6.0 Weighting % Category Qtr YTD ▲ Vanguard Target Income Composite Index 5.0 Vanguard Total Bond Market II Idx Inv -6.0 36.3 Fixed Income -6.0 4.0 3.0 Vanguard Total Stock Mkt Idx Instl Pls Equity -5.5 -5.5 17.8 2.0 Vanguard Shrt-Term Infl-Prot Sec Idx Adm 1.0 Fixed Income -0.3 -0.3 16.8 0.0 Return 16.0 Vanguard Total Intl Bd II Idx Insl Fixed Income -5.1 -5.1 6.0 8.0 2.0 4.0 0.0 11.9 Vanguard Total Intl Stock Index Inv Equity -6.1 -6.1 Std Dev **Rolling Return (3 Years)** Rolling Risk (3 Years) Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile 12.5 12.5 10.0 10.0 7.5 7.5 5.0 5.0 2.5 2.5 Dev 0.0 Std 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 2020 2016 2017 2018 2019 2021 2016 2018 2020 2021 2017 2019 -Vanguard Target Retirement Income Fund -Vanguard Target Income Composite Index -Vanguard Target Retirement Income Fund -Vanguard Target Income Composite Index **Calendar Year Returns** 2012 Rank 2013 Rank 2014 Rank 2015 Rank 2016 Rank 2017 Rank 2018 Rank 2019 Rank 2020 Rank 2021 Rank Vanguard Target Retirement Income Fund 67 5.5 -0.2 7 5.3 62 -2.0 13.2 10.0 36 8.2 5.9 56 19 41 8.5 21 49 5.2 65 Vanguard Target Income Composite Index 8.4 6.0 5.8 0.1 5.4 8.7 -2.0 13.4 10.7 5.4



**VTWNX** Vanguard Target 2020 Composite Index US Fund Target-Date 2020 **Top Holdings - Vanguard Target Retirement 2020 Fund Risk & Return Illustration (5 Years)** Portfolio Date: 3/31/2022 Time Period: 4/1/2017 to 3/31/2022 Vanguard Target Retirement 2020 Fund 10.0 Broad Return Return Portfolio Category Qtr YTD Weighting % 8.0 ▲ Vanguard Target 2020 Composite Index 6.0 Vanguard Total Bond Market II Idx Inv -6.0 -6.0 30.1 Fixed Income 4.0 Vanguard Total Stock Mkt Idx Instl Pls Equity -5.5 -5.5 27.4 2.0 17.9 Vanguard Total Intl Stock Index Inv Equity -6.1 -6.1 Return Vanguard Total Intl Bd II Idx Insl Fixed Income -5.1 -5.1 13.4 6.0 8.0 12.0 0.0 2.0 4.0 10.0 10.0 Vanguard Shrt-Term Infl-Prot Sec Idx Adm Fixed Income -0.3 -0.3 Std Dev **Rolling Return (3 Years)** Rolling Risk (3 Years) Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile 15.0 20.0 12.5 15.0 10.0 10.0 7.5 5.0 2.5 Dev Return 0.0 0.0 Std 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 2020 2016 2017 2019 2021 2016 2018 2020 2021 2018 2017 2019 -Vanguard Target Retirement 2020 Fund -Vanguard Target 2020 Composite Index -Vanguard Target Retirement 2020 Fund -Vanguard Target 2020 Composite Index **Calendar Year Returns** 2012 Rank 2013 Rank 2014 Rank 2015 Rank 2016 Rank 2017 Rank 2018 Rank 2019 Rank 2020 Rank 2021 Rank Vanguard Target Retirement 2020 Fund 12.3 15.8 7.1 -0.7 23 29 -4.2 17.6 12.0 46 36 18 6.9 14.1 17 42 28 8.2 68 Vanguard Target 2020 Composite Index 12.5 16.2 7.4 -0.4 7.2 14.2 -4.2 17.9 12.9 8.4



VTHRX			Vangua	ard Target 203	30 Composi	te Index			l	JS Fund Targe	et-Date 203	30	
op Holdings - Vanguard Target	Retirement 203	0 Fund			Risk & Re	turn Illusi	tration (5	Years)					
ortfolio Date: 3/31/2022					Time Period:	4/1/2017 to	o 3/31/2022						
	Broad Category	Return Qtr	Return YTD	Portfolio Weighting %	12.0 — 10.0 —					_	ard Target Ro ard Target 20		
anguard Total Stock Mkt Idx Instl Pls	Equity	-5.5	-5.5	39.3	8.0 — 6.0 —								
anguard Total Intl Stock Index Inv	Equity	-6.1	-6.1	25.6	4.0								
anguard Total Bond Market II ldx Inv	Fixed Income	-6.0	-6.0	23.4	2.0 —								
nguard Total Intl Bd II ldx Insl	Fixed Income	-5.1	-5.1	10.3	0.0 Heturn 0.0	3.0	6.0	9.0	12.0	15.0			
						Dev							
olling Return (3 Years)					Rolling Ri	sk (3 Year	rs)						
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15.0				3 06 09 12 03 021	20.0 — 15.0 — 10.0 — 5.0 —	06 09 12 0	03 06 09 12	03 06 09 2017	12 03 06 2018		12 03 06 0 2020	09 12 03 0	
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**VFORX** Vanguard Target 2040 Composite Index US Fund Target-Date 2040 **Top Holdings - Vanguard Target Retirement 2040 Fund Risk & Return Illustration (5 Years)** Portfolio Date: 3/31/2022 Time Period: 4/1/2017 to 3/31/2022 Vanguard Target Retirement 2040 Fund 12.0 Broad Return Return Portfolio 10.0 Weighting % Category Qtr YTD ▲ Vanguard Target 2040 Composite Index 8.0 Vanguard Total Stock Mkt Idx Instl Pls Equity -5.5 -5.5 48.0 6.0 Vanguard Total Intl Stock Index Inv Equity -6.1 -6.1 31.4 4.0 2.0 Vanguard Total Bond Market II Idx Inv Fixed Income -6.0 -6.0 13.4 0.0 Return 5.9 Vanguard Total Intl Bd II Idx Insl Fixed Income -5.1 -5.1 18.0 3.0 6.0 9.0 12.0 15.0 Std Dev **Rolling Return (3 Years)** Rolling Risk (3 Years) Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile 20.0 25.0 20.0 15.0 15.0 10.0 10.0 5.0 5.0 Dev Return 0.0 0.0 Std 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 2020 2016 2017 2019 2021 2016 2018 2020 2021 2018 2017 2019 -Vanguard Target Retirement 2040 Fund -Vanguard Target 2040 Composite Index -Vanguard Target Retirement 2040 Fund -Vanguard Target 2040 Composite Index **Calendar Year Returns** 2012 Rank 2013 Rank 2014 Rank 2015 Rank 2016 Rank 2017 Rank 2018 Rank 2019 Rank 2020 Rank 2021 Rank Vanguard Target Retirement 2040 Fund 15.6 24.4 7.1 12 -1.6 43 27 20.7 -7.3 23.9 15.5 40 31 15 8.7 25 37 43 14.6 81 Vanguard Target 2040 Composite Index 15.6 24.8 7.6 -1.2 9.0 20.9 -7.2 24.2 16.3 14.9

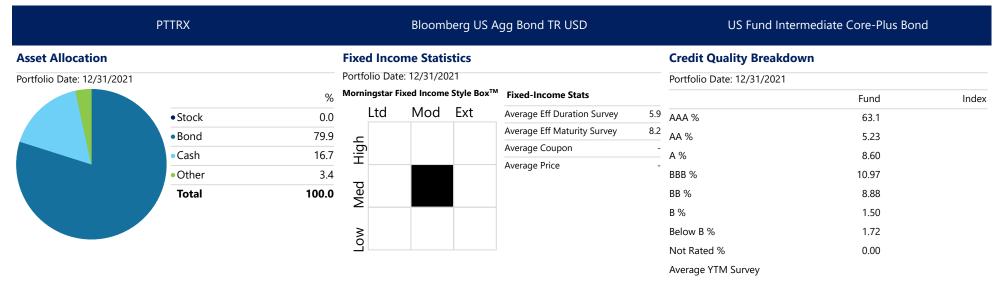


**VFIFX** Vanguard Target 2050 Composite Index US Fund Target-Date 2050 **Top Holdings - Vanguard Target Retirement 2050 Fund Risk & Return Illustration (5 Years)** Portfolio Date: 3/31/2022 Time Period: 4/1/2017 to 3/31/2022 14.0 Vanguard Target Retirement 2050 Fund Broad Return Return Portfolio 12.0 Weighting % Category Qtr YTD ▲ Vanguard Target 2050 Composite Index 10.0 Vanguard Total Stock Mkt Idx Instl Pls -5.5 -5.5 53.9 Equity 8.0 6.0 Vanguard Total Intl Stock Index Inv Equity -6.1 -6.1 35.2 4.0 2.0 Vanguard Total Bond Market II Idx Inv Fixed Income -6.0 -6.0 6.5 0.0 Return 2.9 Vanguard Total Intl Bd II Idx Insl Fixed Income -5.1 -5.1 21.0 6.0 9.0 12.0 15.0 18.0 Std Dev Rolling Risk (3 Years) Rolling Return (3 Years) Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile 25.0 25.0 20.0 20.0 15.0 15.0 10.0 10.0 5.0 5.0 0.0 Std Dev Return 0.5-0.0 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 03 2020 2016 2017 2019 2021 2016 2018 2020 2021 2018 2017 2019 -Vanguard Target Retirement 2050 Fund -Vanguard Target 2050 Composite Index -Vanguard Target Retirement 2050 Fund -Vanguard Target 2050 Composite Index **Calendar Year Returns** 2012 Rank 2013 Rank 2014 Rank 2015 Rank 2016 Rank 2017 Rank 2018 Rank 2019 Rank 2020 Rank 2021 Rank Vanguard Target Retirement 2050 Fund 15.6 24.3 7.2 45 29 21.4 -7.9 25.0 16.4 44 30 16 -1.6 8.9 38 37 47 37 16.4 74 Vanguard Target 2050 Composite Index 15.6 24.8 7.6 -1.3 9.1 21.6 -7.8 25.4 17.2 16.7

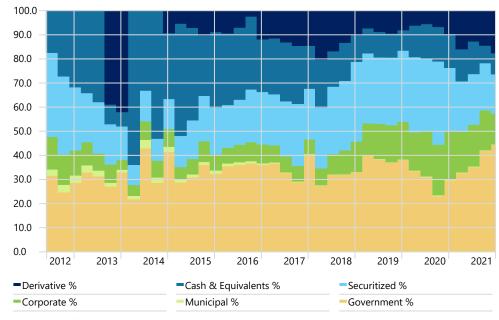


VTTSX				Vangua	nguard Target 2060 Composite Index							ι	JS Fund	d Target	-Date 2	2060		
Top Holdings - Vanguard Targe	t Retirement 2	2060 Fund				Risk 8	Returi	ı Illustı	ration	(5 Years	5)							
Portfolio Date: 3/31/2022						Time Pe	riod: 4/1,	2017 to	3/31/2	022								
	Broad Category	Retu	urn R Qtr	leturn YTD	Portfolio Weighting %							<u> </u>		_	_		nent 2060 Composite	
/anguard Total Stock Mkt Idx Instl Pls	Equity	-	5.5	-5.5	53.4	8.0												
anguard Total Intl Stock Index Inv	Equity	-	6.1	-6.1	35.6	6.0 4.0												
anguard Total Bond Market II ldx Inv	Fixed Income	-	6.0	-6.0	6.6	2.0												
anguard Total Intl Bd II Idx Insl	Fixed Income	-	5.1	-5.1	2.9	Return 0.0	0.0 3	3.0 6.	.0 9	.0 12.0	15.0	18.0	21.0					
Rolling Return (3 Years)						Rolling	g Risk (	3 Years	s)									
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	nd –	Vanguard Tar	get 2060 Comp	oosite Inc	lex	—Vangı	ard Targ	et Retire	ment 2	060 Fund		-\	/anguard	d Target 2	.060 Cor	nposite	Index	
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-Vanguard Target Retirement 2060 Fur  Calendar Year Returns  /anguard Target Retirement 2060 Fund		k 2013 24.3	Rank 2014 1 7.2	Rank	2015 R -1.7				1.4		)18 F 7.9	Rank 34	2019	Rank 66	2020	Rank 42	2021	Rai





#### **Historical Sector Allocations (10 Years)**



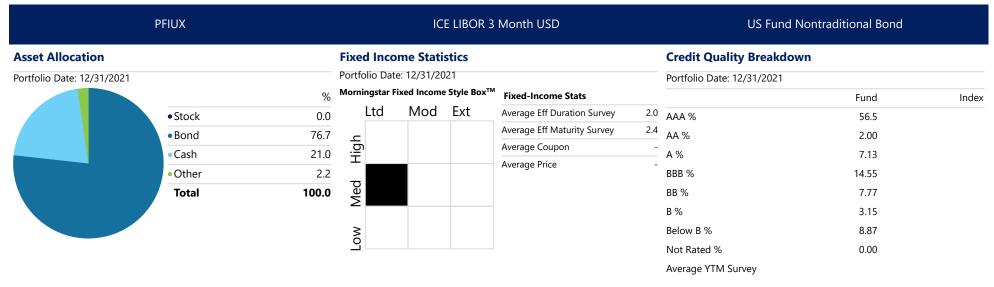
#### **Top Holdings**

	Detail Holding Type	Portfolio Weighting %
10 Year Treasury Note Future Mar 22	BOND - TREASURY FUTURE	23.52
5 Year Treasury Note Future Mar 22	BOND - TREASURY FUTURE	10.10
Federal National Mortgage Association 2%	BOND - GOV'T AGENCY PASS-THRU	5.27
Pimco Fds	MUTUAL FUND - OPEN END	4.31
United States Treasury Bonds 1.375%	BOND - GOV'T/TREASURY	2.14
United States Treasury Bonds 1.375%	BOND - GOV'T/TREASURY	2.10
Secretaria Tesouro Nacional 0%	BOND - GOV'T/TREASURY	1.88
United States Treasury Bonds 3%	BOND - GOV'T/TREASURY	1.81
Secretaria Tesouro Nacional 0%	BOND - GOV'T/TREASURY	1.34
United States Treasury Bonds 2.75%	BOND - GOV'T/TREASURY	1.21

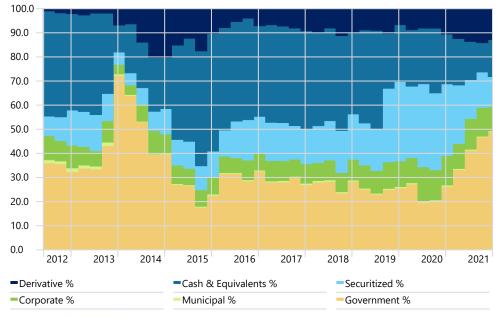


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k & Return Characteristics	s (5 Yea	rs)							Risk &	Returi	ı Illustı	ation	(5 Yea	ırs)							
e Period: 4/1/2017 to 3/31/2022									Time Pe	riod: 4/1,	'2017 to	3/31/20	22								
				Fund				Index	2.8								• DIMC	O Total	Doturo	lno+l	
				95.9				100.0	2.4								PIIVIC	O lotai	Return	msu	
ha				0.3				0.0	2.0						<del></del>		▲ Bloor	nberg U	S Aga	Bond TF	₹Ū
3				1.0				1.0	1.6	_									- 33		
Dev				4.6				4.4	1.2	_											
Capture Ratio				108.3				100.0	8.0	_											
vn Capture Ratio				100.7				100.0	0.4	_											
rpe Ratio (geo)				0.3				0.2	Return 0.0						_						
rmation Ratio (geo)				0.4					Į.	0.0	1.0	2.0	3.0	4.0	5.0	6.0	)				
king Error				0.9				0.0	Re												
relation				1.0				1.0		Std Dev											
lling Returns (3 Years)									Rolling	Risk (	3 Years	)									
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5.0								•													
4.0					2				6.0												
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endar Year Returns																					
	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Ranl	k 20	018	Rank	2019	Rank	2020	Rank	2021	
		40	1.0	70		72	0.7	11	2.6	00		4-	_						25	0.0	
CO Total Return Instl	10.4	12	-1.9	78	4.7	73	0.7	11	2.6	82	5.1	17	<i>'</i>	-0.3	30	8.3	73	8.9	35	-0.8	





#### **Historical Sector Allocations (10 Years)**



#### **Top Holdings**

	Detail Holding Type	Portfolio Weighting %
5 Year Treasury Note Future Mar 22	BOND - TREASURY FUTURE	18.22
10 Year Treasury Note Future Mar 22	BOND - TREASURY FUTURE	10.52
Long-Term Euro Btp Future Mar 22	BOND - TREASURY FUTURE	3.94
Fnma Pass-Thru I 3%	BOND - GOV'T AGENCY PASS-THRU	2.31
United States Treasury Bills 0%	BOND - GOV'T/TREASURY	2.21
United States Treasury Notes 1.25%	BOND - GOV'T/TREASURY	2.00
United States Treasury Notes 2.375%	BOND - GOV'T/TREASURY	1.79
United States Treasury Notes 2.25%	BOND - GOV'T/TREASURY	1.77
South Africa (Republic of) 10.5%	BOND - GOV'T/TREASURY	1.76
United States Treasury Notes 1.375%	BOND - GOV'T/TREASURY	1.00



PFIUX		ICE LIBOR 3	3 Month USD		US Fund Nontraditional Bond
isk & Return Characteristics (5 Years)			Risk & Return Illustra	ation (5 Years)	
me Period: 4/1/2017 to 3/31/2022			Time Period: 4/1/2017 to 3	3/31/2022	
	Fund	Inde	3.0		<ul> <li>PIMCO Dynamic Bond Instl</li> </ul>
2	2.0	100.0	2.5		Privice Dynamic Bond mstr
pha	-1.3	0.0	2.0		▲ ICE LIBOR 3 Month USD
eta	11.6	1.0	1.5		
d Dev	4.6	0.5	1.0		
p Capture Ratio	186.8	100.0	1.0		
own Capture Ratio			0.5		
narpe Ratio (geo)	0.3	0.5	0.0 Land 1.0		
formation Ratio (geo)	0.3		. 등 0.0 1.0	2.0 3.0 4.0	5.0 6.0
acking Error	4.6	0.0	) &		
orrelation	0.1	1.0	Std Dev		
olling Returns (3 Years)			Rolling Risk (3 Years)	1	
			45.0		
8.0 6.0 4.0 2.0 0.0 -2.0 -4.0 0.0 12 03 06 00 13 03 06 00 14 03 06 00 14 03 06 00 14 03 06 00 15 00 15 00 1	2 02 06 00 12 02 06 00 11	0.02.06.00.13.02.06.00.13.03	15.0 - 12.5 - 10.0 - 7.5 - 5.0 - 2.5 - 0.0 0.0 12.03	06 00 12 02 06 00 1	23 05 00 12 03 06 00 13 03 06 00 13
6.0 4.0 2.0 0.0 -2.0	2 03 06 09 12 03 06 09 12	2 03 06 09 12 03 06 09 12 03	12.5 — 10.0 — 7.5 — 5.0 — 2.5 — 3 0.0	06 09 12 03 06 09 1	12 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12
6.0 - 4.0 - 2.0 -	2 03 06 09 12 03 06 09 12 2018 2019	2 03 06 09 12 03 06 09 12 03 2020 2021	12.5 — 10.0 — 7.5 — 5.0 — 2.5 — 0.0		2 03 06 09 12 03 06 09 12 03 06 09 12 03 06 09 12 2018 2019 2020 2021
6.0 4.0 2.0 0.0 -2.0 03 06 09 12 03 06 09 12 03 06 09 1 2016 2017  PIMCO Dynamic Bond Instl		2020 2021	12.5 - 10.0 - 7.5 - 5.0 - 2.5 - 03 06 09 12 03	16 2017	
6.0 4.0 2.0 0.0 -2.0 03 06 09 12 03 06 09 12 03 06 09 1 2016 2017  PIMCO Dynamic Bond Instl alendar Year Returns	2018 2019 —ICE LIBOR 3 Month	2020 2021 USD	12.5 — 10.0 — 7.5 — 5.0 — 2.5 — 0.0 03 06 09 12 03 20 — PIMCO Dynamic Bond I	16 2017 Instl	2018 2019 2020 2021 —ICE LIBOR 3 Month USD
6.0 4.0 2.0 0.0 -2.0 03 06 09 12 03 06 09 12 03 06 09 1 2016 2017  PIMCO Dynamic Bond Instl	2018 2019	2020 2021	12.5 — 10.0 — 7.5 — 5.0 — 2.5 — 0.0 03 06 09 12 03 20 — PIMCO Dynamic Bond I	16 2017	2018 2019 2020 2021 —ICE LIBOR 3 Month USD
6.0 4.0 2.0 0.0 -2.0 03 06 09 12 03 06 09 12 03 06 09 1 2016 2017  PIMCO Dynamic Bond Instl alendar Year Returns	2018 2019 —ICE LIBOR 3 Month	2020 2021 USD	12.5 — 10.0 — 7.5 — 5.0 — 2.5 — 0.0 03 06 09 12 03 20 — PIMCO Dynamic Bond I	16 2017 Instl	2018 2019 2020 2021 —ICE LIBOR 3 Month USD



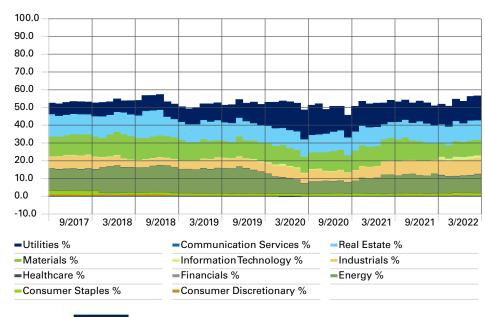
### **Principal Diversified Real Asset Instl**



Principal Diversified Real Asset Instl

A Diversified Real Asset Strategic Index

#### **Historical Sector Allocations (5 Years)**



#### **Attribution (Quarter)**

		Benchmark	Portfolio	Benchmark A			Active
	Weights	Weights	Return	Return	Effect	Effect	Return
Communication Services	0.13	0.00	-2.58		-0.02	0.00	-0.02
Consumer Discretionary	0.70	0.00	-21.15		-0.39	0.00	-0.39
Consumer Staples	1.18	0.00	9.42		0.05	0.00	0.05
Energy	9.32	0.00	26.73		3.19	0.00	3.19
Financials	0.26	0.00	-3.27		-0.05	0.00	-0.05
Health Care	0.28	0.00	-19.73		-0.15	0.00	-0.15
Industrials	9.01	0.00	-4.18		-1.87	0.00	-1.87
Information Technology	1.57	0.00	-13.22		-0.61	0.00	-0.61
Materials	8.67	0.00	10.92		0.62	0.00	0.62
Real Estate	10.93	0.00	-4.43		-2.32	0.00	-2.32
Utilities	12.54	0.00	4.52		-0.49	0.00	-0.49
Unclassified	0.29	63.11	8.23	6.84	0.00	0.01	0.01
Attribution Total	54.87	63.11	4.82	6.84	-2.04	0.01	-2.03
Cash	5.00	0.00					
Bond	32.23	21.89					
Other	1.27	0.00					
Unidentified	0.00	15.00					
Missing Performance	15.68	0.00					
Total	109.04	100.00					



PDRDX			Diversified Real As	sset Strate	gic Inde	ex			ι	JS Fund Gl	obal Alloca	ation		
isk & Return Characteristics (5 \	Years)			Risk & F	Return II	lustrati	on (5 Ye	ars)						
ime Period: 4/1/2017 to 3/31/2022				Time Peri	od: 4/1/20	17 to 3/3	31/2022							
		Fund	Index							- Driv	ncipal Divers	sified De	al Accet	lnotl
2		98.7	100.0	10.0					1		-			
lpha		-0.1	0.0	0.0						▲ Div	ersified Real	I Asset S	Strategic	Inde
eta		1.0	1.0						1					
d Dev		13.5	12.9											
p Capture Ratio		102.6	100.0	4.0										
•			100.0	2.0										
own Capture Ratio		104.3												
narpe Ratio (geo)		0.5	0.5	0.0 .0 0.0										
formation Ratio (geo)		0.0		਼ <del>ਹੋ</del> ਹ.	0 3	.0	6.0	9.0	12.0	15.0				
acking Error		1.6	0.0											
orrelation		1.0	1.0	S	td Dev									
olling Return (3 Years)				Rolling F	Risk (3 Y	ears)								
15.0														
10.0 5.0 0.0				20.0 — 15.0 — 10.0 —		• • •	• •		• • •			1	2 2 2	
10.0 5.0 0.0				15.0 — 10.0 — 5.0 —		2 4 4			• • •				2 2 2	
10.0 5.0 0.0 -5.0	06 09 12 03 06 0	9 12 03 06 09 12 03 06	3 09 12 03 06 09 12 03	15.0 — 10.0 — 5.0 —	03 06 09	12 03 06	6 09 12 0	3 06 09	12 03 06	09 12 03 06	09 12 03 06	6 09 12	03 06 09	12
10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 03 0				15.0 — 10.0 — 5.0 —	03 06 09									12
10.0 5.0 0.0 -5.0		9 12 03 06 09 12 03 06 2019 2020	3 09 12 03 06 09 12 03 2021	15.0 — 10.0 — 5.0 —	03 06 09	12 03 06 2016		3 06 09 017	12 03 06 2018	09 12 03 06 2019	09 12 03 06 2020		03 06 09	12
10.0 5.0 0.0 -5.0 03 06 09 12 03 06 09 12 03 06 2015 rincipal Diversified Real Asset Instl	7 2018		2021	15.0 — 10.0 — 5.0 —		2016	2	017	2018		2020		2021	12
10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 03 06 2017  Principal Diversified Real Asset Instl	7 2018	2019 2020	2021 rategic Index	15.0 — 10.0 — 5.0 — 6.0	ıl Diversif	2016	2	017	2018	2019	2020 leal Asset St		2021	12 F
03 06 09 12 03 06 09 12 03 0	7 2018 — Di	2019 2020 versified Real Asset St	2021 rategic Index 4 Rank 2015 R	15.0 — 10.0 — 5.0 — 0.0 — Principa	ıl Diversif Rank	2016 ied Real	Asset In	:017 stl	2018	2019 Diversified R 2019 Rar	2020 real Asset St	trategic	2021 Index	



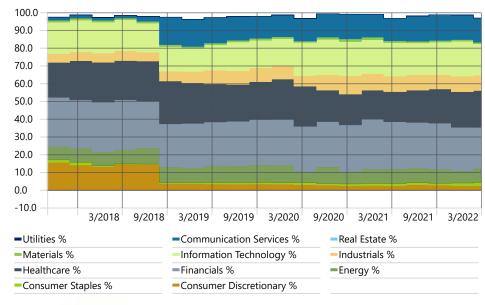
DODGX		Ru	ıssell 100	00 Value TR USD			US Fund La	rge Value	
Holdings Based Style Trail (5 Years)	sed Style Trail (5 Years) Portfolio Statistics Market Capitalization Breakdown		wn	Top 10 Holdings					
Time Period: 5/31/2017 to 3/31/2022		Fund	Index		Fund	Index		Portf Weight %	3 Month Ret %
	# of Holdings	76	848	Market Cap Giant %	25.1	27.8	Charles Schwab Corp	4.12	0.49
Giant	% Asset in Top 10 Holdings	32.0	18.7	Market Cap Large %	53.9	39.7	Wells Fargo & Co	3.92	1.52
	Turnover Ratio %	10.0		Market Cap Mid %	20.0	28.6	Alphabet Inc Class C	3.56	-3.48
large —	P/E Ratio	14.5	15.9	Market Cap Small %	0.9	3.9	Occidental Petroleum Corp	3.50	96.17
	P/B Ratio	2.0	2.3	Market Cap Micro %	0.2	0.1	Sanofi SA ADR	3.37	2.48
PI	LT Earn Growth	10.2	13.5	Average Market Cap (mil)	89,319.1	78,379.4	Capital One Financial Corp	2.87	-9.10
	Hist Earn Growth	26.0	23.5				MetLife Inc	2.83	13.23
ll mail	12 Mo Yield	1.2					Cigna Corp	2.68	4.83
							GlaxoSmithKline PLC ADR	2.61	0.14
Ç.O.							FedEx Corp	2.54	-10.25

<sup>•</sup> Dodge & Cox Stock I

High-Grth

Core-Grth

#### **Historical Sector Allocations (5 Years)**



#### **Attribution (Quarter)**

ì	Portfolio Weights	Benchmark Weights	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Active Return
Communication Services	13.34	7.37	-6.86	-3.00	-0.12	-0.56	-0.68
Consumer Discretionary	2.47	5.50	-7.49	-13.23	0.39	0.16	0.55
Consumer Staples	1.59	7.48	8.73	0.01	-0.04	0.14	0.09
Energy	8.12	5.96	57.05	38.75	0.74	1.18	1.92
Financials	25.15	21.12	-2.12	-1.17	-0.02	-0.20	-0.22
Health Care	19.85	17.71	0.34	-1.33	-0.01	0.32	0.32
Industrials	8.42	11.01	-6.87	-4.12	0.08	-0.24	-0.16
Information Technology	18.90	10.00	-5.25	-9.23	-0.81	0.82	0.01
Materials	0.86	3.83	-9.33	5.31	-0.19	-0.13	-0.32
Real Estate	0.00	4.93		-4.32	0.18	0.00	0.18
Utilities	0.00	5.07		4.37	-0.27	0.00	-0.27
Attribution Total	98.70	99.98	0.71	-0.73	-0.05	1.48	1.44
Cash	1.17	0.00					
Missing Performance	0.12	0.02					
Total	100.00	99.99					



ARussell 1000 Value TR USD

DOI	OGX			Russell 1000	Value TR USD				US F	Fund Large Val	lue 		
isk & Return Characteristic	s (5 Years)				Risk & Retur	า Illustration	(5 Years)	)					
ime Period: 4/1/2017 to 3/31/2022					Time Period: 4/1,	/2017 to 3/31/2	022						
		I	und	Index	15.0 —					• Dodge & Co	x Stock	I	
2			96.8	100.0						_			
lpha			1.8	0.0						▲ Russell 1000	Value T	R USD	
eta			1.1	1.0	9.0			4					
d Dev			22.0	18.9	6.0								
p Capture Ratio		1	17.7	100.0	0.0								
own Capture Ratio			06.2	100.0									
narpe Ratio (geo)			0.5	0.5	c 00								
formation Ratio (geo)			0.6	0.0	' <b>\</b>	10 00 1	100	20.0	24.0 28.0				
acking Error			4.9	0.0	. 0.0 ⊈ े 6t	1.0 8.0 1	2.0 16.0	20.0	24.0 28.0	1			
orrelation			1.0	1.0									
			1.0	1.0	_								
olling Return (3 Years)					Rolling Risk (	3 Years)							
22.5				*	37.5 — 30.0 —						•		
22.5 15.0 7.5 0.0	02.06.00.12	03 06 00 13 03	06 00 13 03 05 00	0 12 02 06 00 12 02	30.0 - 22.5 - 15.0 - 7.5 -	00 12 02 05 0	12.02.00	00 13 03	06 00 13 6	02.06.00.12.02	06 00 12	02.06.00	
22.5 — 15.0 — 7.5 — 0.0 —	2 03 06 09 12	03 06 09 12 03	06 09 12 03 06 09	9 12 03 06 09 12 03	30.0 - 22.5 - 15.0 - 7.5 -	09 12 03 06 09	12 03 06	09 12 03	06 09 12 0	03 06 09 12 03	06 09 12	03 06 09	12
22.5 15.0 7.5 0.0		03 06 09 12 03 2018 20		9 12 03 06 09 12 03 2021	30.0 - 22.5 - 15.0 - 7.5 -	09 12 03 06 09 2016	12 03 06 2017			03 06 09 12 03 02019 202		03 06 09 2021	1
22.5  15.0  7.5  0.0  -7.5  03 06 09 12 03 06 09 1 2016  Dodge & Cox Stock I		2018 201			30.0 - 22.5 - 15.0 - 7.5 -	2016			118 2		20		12
22.5  15.0  7.5  0.0  -7.5  03 06 09 12 03 06 09 1 2016  Dodge & Cox Stock I		2018 201	2020		30.0 - 22.5 - 15.0 - 7.5 - 30.0 03 06	2016			118 2	2019 202	20		1:
22.5  15.0  7.5  0.0  -7.5  03 06 09 12 03 06 09 1 2016  Codge & Cox Stock I	2017	2018 201	2020	2021	30.0 - 22.5 - 15.0 - 7.5 - 0.0 03 06 -Dodge & Cox 9	2016			118 2 ▲ Russell 1	2019 202	20		12
22.5  15.0  7.5  0.0  -7.5  03 06 09 12 03 06 09 1  2016  Dodge & Cox Stock I  alendar Year Returns	2017 2 Rank	2018 2018 Russell 100	2020 2020 Value TR USD	2021	30.0 - 22.5 - 15.0 - 7.5 - 0.0 03 06 -Dodge & Cox 9	2016 Stock I	2017	20	118 2 ▲ Russell 1	202 1000 Value TR US	20 SD	2021	



	VINIX			S&P 50	0 TR USD				US Fund	Large Blend		
Risk & Return Characteris	tics (5 Yea	ars)			Risk & Returi	n Illustratio	n (5 Years)	)				
ime Period: 4/1/2017 to 3/31/20	)22				Time Period: 4/1,	/2017 to 3/31/	2022					
			Fund	Index	18.0 —				• Vai	nguard Institu	ıtional Inde	хI
2			100.0	100.0	15.0				<u> </u>	-		Λ Ι
lpha			0.0	0.0	)				\$&	P 500 TR USE	)	
eta			1.0	1.0	12.0							
td Dev			18.1	18.1	9.0							
p Capture Ratio			99.9	100.0	6.0							
own Capture Ratio			100.1	100.0								
harpe Ratio (geo)			0.8	3.0								
nformation Ratio (geo)			-2.2		<u> </u>	0.0	0.0 13.0	15.0 19	8.0 21.0			
racking Error			0.0	0.0	0.0 g	3.0 6.0	9.0 12.0	15.0 18	8.0 21.0			
orrelation			1.0	1.0								
olling Return (3 Years)					Rolling Risk (	3 Years)						
30.0				<b>^</b>	30.0 — 25.0 —							
22.5 – 15.0 – 7.5 – 0.0 –						<i>.</i>						
22.5 — 15.0 — 7.5 — 0.0 —					25.0 — 20.0 — 15.0 — 10.0 — 5.0 —	A & a. a.	<b>.</b>	<u></u>				
22.5 — 15.0 — 7.5 — 0.0 —	42.02.05	00 12 02 05 0			25.0 - 20.0 - 15.0 - 10.0 - 5.0 -	20 12 22 25	2 12 02 05	00 40 03		00 12 02 05 0	0 12 03 05 6	20.42
22.5 — 15.0 — 7.5 — 0.0 —	9 12 03 06	09 12 03 06 0	9 12 03 06 09 12	03 06 09 12 03 06 09 12 03	25.0 - 20.0 - 15.0 - 10.0 - 5.0 -	09 12 03 06 0	09 12 03 06	09 12 03 (	06 09 12 03 06	09 12 03 06 0	9 12 03 06 0	09 12
22.5 — 15.0 — 7.5 — 0.0 —	9 12 03 06 0 2017	09 12 03 06 C	9 12 03 06 09 12 2019	03 06 09 12 03 06 09 12 03 2020 2021	25.0 - 20.0 - 15.0 - 10.0 - 5.0 -	09 12 03 06 0	09 12 03 06 2017	09 12 03 (201		09 12 03 06 0	9 12 03 06 C 2021	09 12
22.5 - 15.0 - 7.5 - 0.07.5 03 06 09 12 03 06 09					25.0 - 20.0 - 15.0 - 10.0 - 5.0 -							09 12
22.5  15.0  7.5  0.0  -7.5  03 06 09 12 03 06 09 2016  Vanguard Institutional Index I		2018			25.0 - 20.0 - 15.0 - 10.0 - 5.0 -	2016	2017	201		2020		09 12
22.5 - 15.0 - 7.5 - 0.0 - 7.5 - 0.0 0.0 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0		2018	2019		25.0 — 20.0 — 15.0 — 10.0 — 5.0 — 20.0 — 10.0 —	2016	2017	201	8 2019	2020		09 12 0
22.5 - 15.0 - 7.5 - 0.07.5 03 06 09 12 03 06 09	2017	2018	2019		25.0 — 20.0 — 15.0 — 10.0 — 5.0 — 20.0 — 10.0 —	2016	2017	201	8 2019	2020 JSD		N 12
22.5 15.0 7.5 0.0 -7.5 03 06 09 12 03 06 09 2016 Vanguard Institutional Index I	2017	2018 —S	2019 &P 500 TR USD	2020 2021	25.0 — 20.0 — 15.0 — 10.0 — 5.0 — 03 06 — Vanguard Instit	2016 tutional Index 2017 Rar	2017	201	8 2019 • S&P 500 TR U	2020 JSD : 2020 R.	2021	

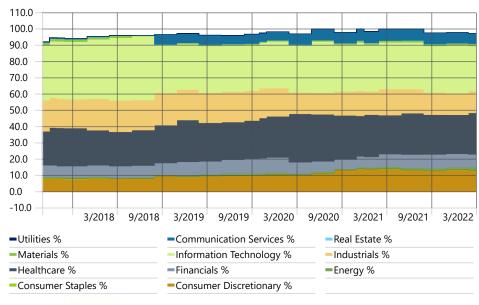


	VPMAX		Rus	sell 100	0 Growth TR USD			US Fund	_arge Blend	
Holdings E	Based Style Trail (5 Years)	Portfolio Statistics			Market Capitalization	n Breakdov	wn	Top 10 Holdings		
Time Period:	5/31/2017 to 3/31/2022		Fund	Index		Fund	Index		Portf Weight %	3 Month Ret %
		# of Holdings	171	499	Market Cap Giant %	43.6	60.4	Eli Lilly and Co	6.49	4.03
Giant	444	% Asset in Top 10 Holdings	33.8	47.8	Market Cap Large %	36.5	26.0	Microsoft Corp	4.30	-8.14
		Turnover Ratio %	5.0		Market Cap Mid %	19.1	12.2	Tesla Inc	3.25	1.97
Large		P/E Ratio	20.4	26.6	Market Cap Small %	0.5	1.3	Amgen Inc	3.17	8.35
		P/B Ratio	3.9	10.0	Market Cap Micro %	0.2	0.0	Texas Instruments Inc	3.02	-2.04
D Mid		LT Earn Growth	13.1	14.8	Average Market Cap (mil)	136,938.1 34	42,571.6	Adobe Inc	2.93	-19.65
		Hist Earn Growth	16.7	30.3				FedEx Corp	2.84	-10.25
]] and		12 Mo Yield	0.8					Micron Technology Inc	2.70	-16.38
,			0.0					Biogen Inc	2.66	-12.22
Micro								Alphabet Inc Class A	2.47	-3.99

• Vanguard PRIMECAP Adm

ARussell 1000 Growth TR USD

## **Historical Sector Allocations (5 Years)**



## **Attribution (Quarter)**

]	Portfolio Weights	Benchmark Weights	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Active Return
Communication Services	6.62	11.26	-5.85	-17.29	0.39	0.80	1.19
Consumer Discretionary	12.93	18.16	-9.78	-8.99	-0.02	-0.10	-0.12
Consumer Staples	0.23	4.14	6.43	-2.50	-0.25	0.02	-0.23
Energy	1.67	0.38	42.45	37.34	0.51	0.05	0.55
Financials	8.85	2.45	-2.94	-5.00	0.26	0.18	0.45
Health Care	24.04	8.66	0.26	-7.48	0.31	1.80	2.10
Industrials	13.39	5.93	-2.92	-3.33	0.45	0.05	0.50
Information Technology	28.86	46.30	-10.26	-8.94	-0.01	-0.37	-0.39
Materials	1.20	0.99	7.59	-16.99	-0.02	0.30	0.28
Real Estate	0.00	1.71		-10.96	0.03	0.00	0.03
Utilities	0.00	0.03		-4.22	0.00	0.00	0.00
Attribution Total	97.79	100.00	-4.73	-9.09	1.65	2.72	4.37
Cash	2.21	0.00					
Total	100.01	100.00					



VPMAX		Russell 1000 (	Growth TR USD		US Fund Large Ble	nd	
Risk & Return Characteristics (5 Years)			Risk & Return Illust	ration (5 Years	)		
Time Period: 4/1/2017 to 3/31/2022			Time Period: 4/1/2017 to	3/31/2022			
	Fund	Index	24.0 —		, ● Vanguard PR	IMECAP Adm	
R2	82.1	100.0					
lpha	-1.5	0.0	20.0		↑ A Russell 1000	Growth TR USE	D
eta	0.8	1.0	16.0 —		•		
d Dev	18.4	20.3	12.0 —				
p Capture Ratio	83.1	100.0	8.0				
own Capture Ratio	101.9	100.0					
narpe Ratio (geo)	0.8	1.0					
formation Ratio (geo)	-0.5	1.0	Lin old	0.0 10.0	16.0		
acking Error	8.6	0.0	0.0 Gerunder 10.0 Gerunder 10.	8.0 12.0	16.0 20.0 24.0		
orrelation	0.9	1.0	Std Dev				
	0.5	1.0	_				
olling Return (3 Years)			Rolling Risk (3 Year	s)			
22.5 15.0 7.5			20.0 — 15.0 — 10.0 —				
0.0	•		5.0		=		
-7.5 03 06 09 12 03 06 09 12 03 06 09 12			0.0				
03 06 09 12 03 06 09 12 03 06 09 12	03 06 09 12 03 06 09 12 03 06	09 12 03 06 09 12 03	03 06 09 12 0	3 06 09 12 03 06	5 09 12 03 06 09 12 03 06 09 12 03 0	06 09 12 03 06 09	9 12
2016 2017	2018 2019 2020	2021		2016 2017	2018 2019 202	2021	
2016 2017	2016 2019 2020	2021	4	2017	2016 2019 202	0  2021	
anguard PRIMECAP Adm	-Russell 1000 Growth TR US	D	-Vanguard PRIMECAP A	ıdm	▲ Russell 1000 Growth TR	JSD	
lendar Year Returns							
2012 Rank	2013 Rank 2014 Ran	k 2015 Rank	2016 Rank 2017	Rank 2018	Rank 2019 Rank 2020	Rank 2021	ſ
nguard PRIMECAP Adm 15.4 47	39.9 10 18.8	1 2.6 59	10.7 4 29.6	37 -1.9	49 27.9 84 17.3	93 21.9	
issell 1000 Growth TR USD 15.3	33.5 13.0	5.7	7.1 30.2	-1.5	36.4 38.5	27.6	



Risk & Return Characteristics (5 Years)  Risk & Return Illustration (5 Years)  Time Period: 4/1/2017 to 3/31/2022  Time Period: 4/1/2017 to 3/31/2022  Time Period: 4/1/2017 to 3/31/2022  **Vanguard Mid Cap Inde A Vanguard Mid Cap Spli 10.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	
Fund   Index   100.0   100.0   100.0   100.0   12	
100.0	
100.0	
Name	iced Index
1.0	
td Dev  p Capture Ratio 99.9 100.0 bown Capture Ratio 99.9 100.0 harpe Ratio (geo) 10.5 10.0 formation Ratio (geo) 10.0 Formation 10.0 10.0  Rolling Return (3 Years)  Rolling Risk (3 Years)  Top Quartile 2nd Quartile Bottom Quartile  8ottom Quartile  45.0 37.5 30.0	
p Capture Ratio 99.9 100.0 100	
Down Capture Ratio 99.9 100.0 harpe Ratio (geo) 0.5 0.5 0.5 nformation Ratio (geo) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	
harpe Ratio (geo)  offormation Ratio (geo)  formation Ratio (geo)  oracking Error  orrelation  1.0  1.0  1.0  1.0  1.0  1.0  1.0  1.	
Rolling Return (3 Years)  Top Quartile 2nd Quartile Bottom Quartile  Top Quartile 2nd Quartile Bottom Quartile  30.0  22.5  15.0  Std Dev  Rolling Risk (3 Years)  Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile  37.5  30.0  37.5  30.0	
Top Quartile 2nd Quartile Bottom Quartile  Top Quartile 2nd Quartile Bottom Quartile  30.0  22.5  15.0  Std Dev  Rolling Risk (3 Years)  Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile  45.0  37.5  30.0	
Rolling Return (3 Years)  Top Quartile 2nd Quartile Bottom Quartile  Top Quartile 2nd Quartile Bottom Quartile  Top Quartile 2nd Quartile Bottom Quartile  45.0  37.5  30.0	
Rolling Return (3 Years)  Top Quartile 2nd Quartile Bottom Quartile  Top Quartile 2nd Quartile Bottom Quartile  45.0  37.5  30.0	
Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile 45.0  22.5  15.0	
Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile 45.0  22.5  15.0  37.5  30.0	
0.0 - -7.5 -	
03 06 09 12 00 00 00 00 00 00 00 00 00 00 00 00 00	
-15.0 03 06 09 12	03 06 09 12 (
. 53 66 63 12 63 66 63 64 64 64 64 64 64 64 64 64 64 64 64 64	33 00 03 12 0
2016 2017 2018 2019 2020 2021 2016 2017 2018 2019 2020	2021
Vanguard Mid Cap Index Institutional —Vanguard Mid Cap Spliced Index —Vanguard Mid Cap Index Institutional • Vanguard Mid Cap Spliced Index  alendar Year Returns	
	2024
2012 Rank 2013 Rank 2014 Rank 2015 Rank 2016 Rank 2017 Rank 2018 Rank 2019 Rank 2020 Rank	2021 Ra
anguard Mid Cap Index Institutional 16.0 55 35.2 40 13.8 5 -1.3 17 11.2 73 19.3 17 -9.2 32 31.0 13 18.3 17 anguard Mid Cap Spliced Index 16.0 35.2 13.8 -1.3 11.2 19.3 -9.2 31.1 18.2	24.5

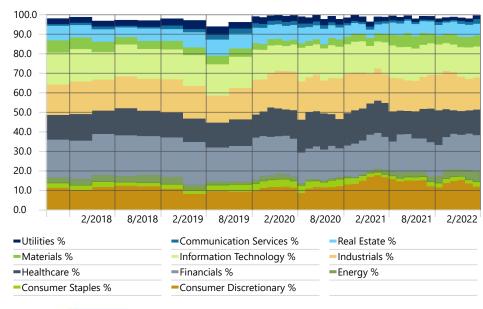


	IVCSX			Russell	2000 TR USD			US Fund Small Ble	end	
Holdings	Based Style Trail (5 Years)	Portfolio Statistics			Market Capitalization	Breakdo	wn	Top 10 Holdings		
Time Period	d: 5/31/2017 to 3/31/2022		Fund	Index		Fund	Index		Portf Weight %	3 Month Ret %
		# of Holdings	128	2,010	Market Cap Giant %	0.0	0.0	Encompass Health Corp	1.87	9.39
Giant		% Asset in Top 10 Holdings	15.0	3.7	Market Cap Large %	0.0	0.3	Performance Food Group Co	1.63	10.94
		Turnover Ratio %	129.0		Market Cap Mid %	23.8	5.5	Envista Holdings Corp Ordinary Shares	1.54	8.10
Large		P/E Ratio	16.2	13.5	Market Cap Small %	58.9	59.9	Cushman & Wakefield PLC	1.53	-7.78
		P/B Ratio	2.2	2.0	Market Cap Micro %	17.3	34.3	Ensign Group Inc	1.50	7.27
Mid		LT Earn Growth	17.1	17.3	Average Market Cap (mil)	3,953.7	2,521.0	Ovintiv Inc	1.46	61.31
	7	Hist Earn Growth	13.3	23.9				Hillenbrand Inc	1.39	-14.62
ll mall	7.04	12 Mo Yield	0.2					Aerojet Rocketdyne Holdings Inc	1.38	-15.85
			0.2					CSG Systems International Inc	1.37	10.79
Micro								Ziff Davis Inc	1.37	-12.70

• Voya Small Company Port I

▲ Russell 2000 TR USD

## **Historical Sector Allocations (5 Years)**



## **Attribution (Quarter)**

1	Portfolio Weights	Benchmark Weights	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Active Return
Communication Services	1.79	3.09	-1.30	-6.67	-0.01	0.02	0.01
Consumer Discretionary	13.24	11.17	-13.55	-17.21	-0.16	0.58	0.43
Consumer Staples	1.91	3.50	5.36	-7.19	-0.02	0.20	0.18
Energy	4.69	5.07	48.11	42.00	-0.16	0.13	-0.03
Financials	18.18	16.49	-3.25	-6.98	0.03	0.70	0.73
Health Care	12.27	17.12	-2.27	-14.41	0.40	1.50	1.90
Industrials	17.09	15.23	-9.87	-5.94	0.00	-0.66	-0.65
Information Technology	15.60	14.01	-12.54	-13.82	-0.07	0.15	0.08
Materials	5.34	3.94	-8.75	-1.65	0.09	-0.38	-0.29
Real Estate	6.31	7.45	-0.60	-4.68	-0.03	0.26	0.23
Utilities	1.51	2.77	7.79	3.17	-0.13	0.07	-0.06
Unclassified	0.73	0.00	-7.54		0.00	0.00	0.00
Attribution Total	98.66	99.84	-5.04	-7.57	-0.05	2.58	2.52
Cash	1.34	0.00					
Missing Performance	0.00	0.16					
Total	100.00	100.00					



	VCSX			Russell 200	00 TR USD					US Fun	d Small Blen	nd		
Risk & Return Characteris	tics (5 Years)				Risk & R	eturn Illus	tration (	5 Years)						
Time Period: 4/1/2017 to 3/31/20	)22				Time Period	l: 4/1/2017 t	o 3/31/202	22						
			Fund	Index	12.0 —					• \	oya Small Co	omnany	Port I	
.2			98.6	100.0	10.0						•			
lpha			-2.3	0.0						<del>_</del> ♣ ▲ R	lussell 2000 T	TR USD		
eta			1.0	1.0	8.0 —									
d Dev			26.3	27.1	6.0									
o Capture Ratio			86.8	100.0	4.0									
own Capture Ratio			96.9	100.0	2.0									
arpe Ratio (geo)			0.2	0.3										
formation Ratio (geo)			-0.8	0.5	L O.O									
acking Error			3.3	0.0	Return 0.0	5.0	10.0	15.0	20.0 25	.0 30.0				
orrelation			1.0	1.0		d Dev								
orrelation			1.0	1.0		a Dev								
olling Return (3 Years)					Rolling R	isk (3 Yea	rs)							
22.5				•	45.0 — 37.5 —									
22.5 - 15.0 - 7.5 - 0.0 - -7.5 -					37.5 - 30.0 - 22.5 - 15.0 - 7.5 -		<b>4 4 </b>	<b>4 4 4</b>	<b>*</b> <u>*</u> *					
15.0 - 7.5 - 0.07.5 -					37.5 - 30.0 - 22.5 - 15.0 - 7.5 -		<b>4 4</b>	<b>* * *</b>	<b>* *</b> *					
15.0 - 7.5 - 0.07.5 -	9 12 03 06 09 1	2 03 06 09 12 03	06 09 12 03 06 09 12	03 06 09 12 03	37.5 - 30.0 - 22.5 - 15.0 - 7.5 -	3 06 09 12	03 06 09	12 03 06	09 12 03	06 09 12 03 0	06 09 12 03 06	6 09 12	03 06 09	12
7.5 0.0 -7.5 -15.0 03 06 09 12 03 06 09					37.5 - 30.0 - 22.5 - 15.0 - 7.5 -						06 09 12 03 06			12
7.5 0.0 -7.5	9 12 03 06 09 12 2017	2 03 06 09 12 03 2018 20		03 06 09 12 03 2021	37.5 - 30.0 - 22.5 - 15.0 - 7.5 -		03 06 09 2016	12 03 06 2017	09 12 03 201				03 06 09	) 12
7.5 0.0 -7.5 -15.0 03 06 09 12 03 06 09 2016			19 2020		37.5 - 30.0 - 22.5 - 15.0 - 7.5 -		2016				9 2020			) 12
7.5 0.0 -7.5 -15.0 03 06 09 12 03 06 09 2016 /oya Small Company Port I		2018 20	19 2020		37.5 — 30.0 — 22.5 — 15.0 — 7.5 — 30.0 — 7.5 —		2016			8 201	9 2020			0 12
15.0 7.5 0.0 -7.5 -15.0 03 06 09 12 03 06 09 2016  /oya Small Company Port I		2018 20	19 2020 00 TR USD	2021	37.5 — 30.0 — 22.5 — 15.0 — 7.5 — 30.0 — 7.5 —	ıll Company	2016			8 201	9 2020 0 TR USD			
15.0 7.5 0.0 -7.5 03 06 09 12 03 06 09 2016  Voya Small Company Port I	2017	2018 20 —Russell 20	19 2020 00 TR USD 2014 Rank 20	2021 015 Rank 2	37.5 — 30.0 — 22.5 — 15.0 — 7.5 — 20.0 —	ıll Company k 2017	2016 Port I	2017	201	8 201  • Russell 200  2019 Rar	9 2020 0 TR USD		2021	) 12



			DODF)	<				MSCI EAFE NR USD			US Fund Foreign Large Value			
Holding	s Based	Style 1	rail (5 Y	'ears)	Portfolio Statistics			Market Capitalization I	Breakdow	/n	Top Ten Holdings			
Time Perio	od: 4/30/20	)17 to 3/3	1/2022			Fund	Index		Fund	Index		Port	3 Month	
					# of Holdings	80	825	Market Cap Giant %	52.0	48.0		Weight %	Return	
Giant	-	• •			% Asset in Top 10 Holdings	30.7	14.7	Market Cap Large %	42.0	40.7	GlaxoSmithKline PLC	3.85	1.06	
<u> </u>					Turnover Ratio %	18.0		Market Cap Mid %	5.4	11.2	Sanofi SA	3.83	2.18	
Large					P/E Ratio	10.8	14.2	Market Cap Small %	0.5	0.1	UBS Group AG	3.67	9.41	
_					P/B Ratio	1.2	1.7	Market Cap Micro %	0.1	0.0	Novartis AG	3.35	2.69	
Pi V					LT Earn Growth	12.4	10.7	Average Market Cap	51,774.2	47,323.3	Roche Holding AG	3.04	-2.71	
2					Hist Earn Growth	11.0	16.3	Equity Region Developed %	83.3	99.7	BNP Paribas Act. Cat.A	2.76	-16.39	
mall mall					12 Mo Yield	2.6	. 0.5	Equity Region Emerging %	16.7	0.3	Banco Santander SA	2.64	3.15	
v					TE INO TICIO	2.0		Equity negion timerging 70	10.7	0.5	Itau Unibanco Holding SA Participating Preferred	2.63	54.07	
Aicro											Samsung Electronics Co Ltd Participating Preferred	2.46	-12.80	
Deep-Val	Core-Val	Core	Core-Grth	High-Grth							ICICI Bank Ltd	2.43	-3.21	

Dodge & Cox International Stock I
 MSCI EAFE NR USD

## **Sector Attribution (Quarter)**

	Portfolio E Weights	Benchmark Weights	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Active Return
Communication Services	4.92	4.63	0.65	-1.07	0.02	0.08	0.10
Consumer Discretionary	9.05	12.42	-12.96	-13.56	0.26	0.11	0.38
Consumer Staples	4.67	10.38	-3.19	-7.66	0.11	0.21	0.32
Energy	8.44	3.75	28.18	16.95	1.03	0.84	1.86
Financials	27.29	17.49	2.71	-0.98	0.52	1.04	1.55
Health Care	17.59	12.63	2.68	-3.75	0.13	1.10	1.23
Industrials	6.34	15.68	-14.37	-10.67	0.44	-0.25	0.19
Information Technology	6.66	8.96	-12.51	-16.10	0.25	0.27	0.52
Materials	10.25	7.78	10.34	2.67	0.22	0.76	0.98
Real Estate	2.29	2.85	2.13	-2.63	-0.02	0.11	0.09
Utilities	0.55	3.43	-10.28	-4.19	-0.05	-0.03	-0.08
Attribution Total	98.05	100.00	1.25	-5.91	2.91	4.24	7.16
Cash	2.35	0.00					
Other	0.04	0.00					
Missing Performance	0.00	0.00					
Total	100.44	100.00					

## Region Attribution (Quarter)

	Portfolio Weights	Benchmark Weights	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Active Return
A f				returr			
Africa	0.52	0.00	-26.47		-0.11	0.00	-0.11
Asia - Developed	4.29	4.07	-6.43	-1.51	0.03	-0.22	-0.19
Asia - Emerging	9.18	0.08	-4.98	15.72	1.97	-1.87	0.10
Australasia	0.00	7.26		7.16	-1.02	0.00	-1.02
Canada	6.64	0.00	34.06		2.46	0.00	2.46
Europe - Emerging	0.41	0.01	-30.48	-46.82	-0.25	0.12	-0.13
Europe - ex Euro	16.28	17.74	3.93	-7.24	0.02	1.82	1.85
Eurozone	22.29	31.84	-4.46	-10.99	0.49	1.59	2.08
Japan	11.45	22.57	-4.43	-6.69	0.09	0.28	0.37
Latin America	4.40	0.12	38.48	1.86	0.41	1.32	1.72
Middle East	0.00	0.63		-3.84	-0.01	0.00	-0.01
United Kingdom	16.09	14.54	-3.41	1.53	0.17	-0.79	-0.62
United States	6.48	1.13	1.54	-20.09	-0.83	1.50	0.67
Attribution Total	98.05	100.00	1.25	-5.91	3.41	3.74	7.16
Cash	2.35	0.00					
Other	0.04	0.00					
Missing Performance	0.00	0.00					
Total	100.44	100.00					



DOI	DFX			MSCI	EAFE NR USD				US	Fund Foreig	n Large V	/alue		
Risk & Return Characteristic	s (5 Years)				Risk & Ret	urn Illustrat	ion (5 Yea	rs)						
Time Period: 4/1/2017 to 3/31/2022					Time Period: 4	4/1/2017 to 3/3	31/2022							
		Fund		Inde	8.0 —					■ Dodge	& Cox Ir	ntarnatio	nal St	ock I
R2		92.6		100.0	0.0			Ţ		_			יומו אני	OCK
Alpha		-2.1		0.0	6.0					MSCI E	AFE NR U	USD		
eta		1.2		1.0	)									
td Dev		22.2		17.										
Jp Capture Ratio		107.1		100.0	2.0									
own Capture Ratio		124.9		100.0										
harpe Ratio (geo)		0.2		0.3	3 ~ 0.0									
nformation Ratio (geo)		-0.2			0.0 Ketruu 0.0	4.0 8.0	12.0 1	6.0 20.0	24.0	28.0				
racking Error		7.2		0.0	0.0	4.0 6.0	12.0	0.0 20.0	24.0	20.0				
Correlation		1.0		1.0		Dev								
Rolling Returns (3 Years)					Rolling Ris	l. (2 V )								
Top Quartile 2nd Qua	rtile 3rd C	wartila	Bottom Quar	+ilo	Top Our	artile 2r	nd Ouartila	220	l Quartile	Bottom (	Ouartila			
20.0					35.0									
20.0 15.0 10.0 5.0 0.0 -5.0 03 06 09 12 03 06 09 12 2016	03 06 09 12 03 0 2017 201		09 12 03 06 0 2020	9 12 03 06 09 12 03 2021	30.0 — 25.0 — 20.0 — 15.0 — 10.0 —	06 09 12 03 0		06 09 12	2 03 06 09 2018	12 03 06 09 2019	12 03 06 0 2020	09 12 03 20.		12
15.0 10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 2016	2017 201		2020		30.0 — 25.0 — 20.0 — 15.0 — 10.0 —		6 20		2018		2020			12
15.0 - 10.0 - 5.0 - -5.0 - -10.0 03 06 09 12 03 06 09 12	2017 201	2019	2020		30.0 — 25.0 — 20.0 — 15.0 — 10.0 —	201	6 20		2018	2019	2020			12
15.0 10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 2016 Dodge & Cox International Stock	2017 201	2019	2020 USD	2021	30.0 — 25.0 — 20.0 — 15.0 — 10.0 —	201	6 20 al Stock I		2018 —MSG	2019	2020 D	20.		12 R
15.0 10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 2016 Dodge & Cox International Stock	2017 201 I	3 2019 -MSCI EAFE NR	2020 USD	2021	30.0 — 25.0 — 20.0 — 15.0 — 10.0 — 5.0 — 03 — — Dodge & Co	2016 Ox Internationa	6 20 al Stock I 7 Rank	17	2018  —MS0  Rank 20	2019 CI EAFE NR USI	2020 D	20.	21	



		Vanguard Tota	l Int'l Stock Custom Index	US Fund	Foreign Large Blend
Risk & Return Characteristics (5 )	Years)		Risk & Return Illustratio	ı (5 Years)	
ime Period: 4/1/2017 to 3/31/2022			Time Period: 4/1/2017 to 3/31/	022	
	Fi	ind Ind	ex 8.0	• \	Vanguard Total Intl Stock Index Admira
2	g	9.8	0.0	<u></u>	-
pha	-	0.3	0.0 6.0 —	<b>A</b> '	Vanguard Total Int'l Stock Custom Inde
eta		1.0	.0		
d Dev	1	8.9	4.0		
p Capture Ratio	10	0.0 100	2.0		
own Capture Ratio		2.6 100	2.0		
narpe Ratio (geo)					
formation Ratio (geo)		0.3	<u> </u>	9.0 12.0 15.0 18.0 21.0	
acking Error			0.0 3.0 6.0	9.0 12.0 15.0 18.0 21.0	
orrelation			.0 Std Dev		
		1.0	.0		
olling Returns (3 Years)			Rolling Risk (3 Years)		
15.0			25.0		
10.0 - 5.0 - 0.0 - -5.0 -		00 12 03 06 00 12 03 06 00 12	20.0 — 15.0 — 10.0 —		
10.0 5.0 0.0 -5.0	6 09 12 03 06 09 12 03 0	06 09 12 03 06 09 12 03 06 09 12 0	20.0 — 15.0 — 10.0 —	09 12 03 06 09 12 03 06 09 12 03	06 09 12 03 06 09 12 03 06 09 12
10.0 5.0 0.0 -5.0			20.0 — 15.0 — 10.0 —	09 12 03 06 09 12 03 06 09 12 03 2017 2018 201	
10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 03 06			20.0 – 15.0 – 10.0 – 3 – 5.0 – 03 06 09 12 03 06		
10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 03 06 2016	2018 201		20.0 – 15.0 – 10.0 – 3 – 5.0 – 03 06 09 12 03 06	2017 2018 201	
10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 03 06 2016  Vanguard Total Intl Stock Index Admiral	2018 201	9 2020 2021	20.0 — 15.0 — 10	2017 2018 201	9 2020 2021
10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 03 06 2016  Vanguard Total Intl Stock Index Admiral	2018 201	9 2020 2021 otal Int'l Stock Custom Index	20.0 – 15.0 – 10	2017 2018 2018 x Admiral —Vanguard	9 2020 2021 Total Int'l Stock Custom Index
10.0 5.0 0.0 -5.0 -10.0 03 06 09 12 03 06 09 12 03 06	2018 201  —Vanguard T	2020 2021  otal Int'l Stock Custom Index  Rank 2014 Rank 201	20.0 15.0 10.0	2017 2018 2018 2019	Total Int'l Stock Custom Index



	RWIGX						MSCI ACWI NR USD			US Fund Global Large-Stock Blend						
Holding	s Based	l Style T	rail (5 Y	ears)	Portfolio Statistics			Market Capitalization	Breakdown		Top Ten Holdings					
Time Perio	od: 4/30/20	017 to 3/3	1/2022			Fund	Index		Fund	Index		Port				
					# of Holdings	353	2,937	Market Cap Giant %	52.7	48.5		Weight %	Retur			
			•		% Asset in Top 10 Holdings	21.1	15.9	Market Cap Large %	35.8	35.9	Microsoft Corp	3.73	-8.1			
					Turnover Ratio %	32.0		Market Cap Mid %	11.0	15.4	Broadcom Inc	3.42	-4.7			
•					P/E Ratio	16.1	16.9	Market Cap Small %	0.5	0.1	Taiwan Semiconductor Manufacturing Co Ltd	3.14	-5.8			
					P/B Ratio	3.0	2.6	Market Cap Micro %	0.0	0.0	Alphabet Inc Class C	1.70	-3.4			
					LT Earn Growth	13.7	13.8	Average Market Cap	108,764.7 111	,495.0	UnitedHealth Group Inc	1.69	1.8			
					Hist Earn Growth	19.1	21.5	Equity Region Developed %	90.3	92.4	Vale SA	1.64	49.3			
					12 Mo Yield	2.2		Equity Region Emerging %	9.7	7.6	Abbott Laboratories	1.53	-15.5			
											ASML Holding NV	1.47	-15.5			
Deep-Val	Core-Val	Core	Core-Grth	High-Grth							Canadian Natural Resources Ltd	1.43	47.8			
American Funds	Capital World Gr&	kinc R6 🔥 MS0	I ACWI NR USD								Tokyo Electron Ltd	1.38	-8.6			

## **Sector Attribution (Quarter)**

	Portfolio B Weights	enchmark Weights	Portfolio E Return	Benchmark Return	Allocation Effect	Selection Effect	Active Return
Communication Services	7.71	8.47	-19.38	-10.65	0.03	-0.77	-0.74
Consumer Discretionary	11.13	12.05	-17.18	-11.36	0.03	-0.70	-0.67
Consumer Staples	7.31	6.93	-3.24	-3.90	0.00	0.05	0.05
Energy	3.74	3.87	17.45	24.89	0.00	-0.24	-0.24
Financials	15.32	14.47	-6.05	-0.13	0.09	-0.93	-0.84
Health Care	11.86	11.55	-5.89	-3.68	0.01	-0.27	-0.26
Industrials	9.09	9.49	-4.69	-5.92	0.00	0.11	0.11
Information Technology	19.66	22.97	-10.69	-10.26	0.13	-0.10	0.04
Materials	5.32	4.79	21.44	3.63	0.07	0.87	0.94
Real Estate	2.02	2.67	-6.97	-5.35	0.00	-0.03	-0.03
Utilities	2.91	2.74	-6.63	1.36	0.02	-0.24	-0.22
Attribution Total	96.08	99.99	-6.98	-5.13	0.39	-2.25	-1.86
Cash	3.45	0.00					
Bond	0.22	0.00					
Other	0.20	0.00					
Missing Performance	0.04	0.01					
Total	100.00	100.00					

## Region Attribution (Quarter)

	Portfolio	Benchmark	Portfolio	Benchmark	Allocation	Selection Effect	Active
	Weights	Weights	Return	Return	Effect		Return
Africa	0.03	0.39	-26.47	19.18	-0.08	-0.01	-0.09
Asia - Developed	5.81	4.34	-8.88	-6.75	-0.03	-0.13	-0.15
Asia - Emerging	5.96	5.63	-8.52	-9.38	-0.03	0.06	0.03
Australasia	1.18	1.79	9.13	7.16	-0.07	0.02	-0.05
Canada	3.13	3.05	20.30	4.71	0.02	0.43	0.45
Europe - Emerging	1.10	0.47	-87.29	-35.89	-0.36	-0.81	-1.17
Europe - ex Euro	5.35	4.56	-2.33	-6.84	-0.01	0.24	0.23
Eurozone	12.67	7.97	-12.33	-11.08	-0.32	-0.16	-0.48
Japan	5.36	5.57	-13.57	-6.69	0.00	-0.41	-0.41
Latin America	3.01	0.95	38.36	22.81	0.56	0.38	0.94
Middle East	0.10	0.88	17.23	14.15	-0.14	0.00	-0.13
United Kingdom	5.88	3.91	-4.04	0.77	0.12	-0.28	-0.16
United States	46.51	60.48	-7.11	-5.29	0.02	-0.88	-0.86
Attribution Total	96.08	99.99	-6.98	-5.13	-0.32	-1.54	-1.86
Cash	3.45	0.00					
Bond	0.22	0.00					
Other	0.20	0.00					
Missing Performance	0.04	0.01					
Total	100.00	100.00					



		MSCI A	ACWI NR USD	US Fund	d Global Large-Stock Blend	
Risk & Return Characteristics (5 \	/ears)		Risk & Return Illustration (5 \)	/ears)		
ime Period: 4/1/2017 to 3/31/2022			Time Period: 4/1/2017 to 3/31/2022			
	Fund	Index	14.0 —		<ul> <li>American Funds Capital Worl</li> </ul>	d Gr&Inc R
2	98.6	100.0	12.0 —	Ţ	•	a Graine is
lpha	-1.0	0.0	10.0 —		MSCI ACWI NR USD	
eta	1.0	1.0		٦		
d Dev	17.6	18.1	6.0			
p Capture Ratio	93.1	100.0	4.0			
own Capture Ratio	99.6	100.0	2.0			
narpe Ratio (geo)	0.5	0.6	⊆ 0.0			
formation Ratio (geo)	-0.6		8 0.0 0.0 3.0 6.0 9.0	12.0 15.0 18.0 21	1.0	
acking Error	2.2	0.0	A		•	
orrelation	1.0	1.0	Std Dev			
olling Returns (3 Years)			Rolling Risk (3 Years)			
20.0						
15.0 10.0 5.0 0.0			25.0 — 20.0 — 15.0 — 10.0 — 5.0 — 3 0.0			
15.0 10.0 5.0 0.0	5 09 12 03 06 09 12 03 06 09 12 03 06	09 12 03 06 09 12 03	20.0 — 15.0 — 10.0 — 5.0 —	03 06 09 12 03 06 09 12	2 03 06 09 12 03 06 09 12 03	06 09 12
15.0 10.0 5.0 0.0	5 09 12 03 06 09 12 03 06 09 12 03 06 2018 2019 2020	09 12 03 06 09 12 03 2021	20.0 — 15.0 — 10.0 — 5.0 —	03 06 09 12 03 06 09 12 2017 2018	2 03 06 09 12 03 06 09 12 03 2019 2020 202	
15.0 10.0 5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2018 2019 2020		20.0 — 15.0 — 10.0 — 5.0 — 03 06 09 12 03 06 09 12 03 06 09 12	2017 2018		
15.0 10.0 5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2018 2019 2020 R6 —MSCI ACWI NR USD	2021	20.0 — 15.0 — 10.0 — 5.0 — 03 06 09 12 03 06 09 12 2016 — American Funds Capital World Gr&	2017 2018 Inc R6 —MSCI	2019 2020 202 ACWI NR USD	1
15.0 10.0 5.0 0.0 03 06 09 12 03 06 09 12 03 06 2016 2017  American Funds Capital World Gr&Inc Falendar Year Returns	2018 2019 2020 R6 —MSCI ACWI NR USD  2012 Rank 2013 Rank	2021 2014 Rank 2015	20.0 — 15.0 — 10.0 — 5.0 — 03 06 09 12 03 06 09 12 2016 — American Funds Capital World Gr& Rank 2016 Rank 2017 F	2017 2018  Inc R6 —MSCI Rank 2018 Rank 20	2019 2020 202 ACWI NR USD 019 Rank 2020 Rank	1 2021 F
15.0  10.0  5.0  0.0  -5.0  03 06 09 12 03 06 09 12 03 06 2016  2017  American Funds Capital World Gr&Inc F	2018 2019 2020 R6 —MSCI ACWI NR USD	2021	20.0 — 15.0 — 10.0 — 5.0 — 03 06 09 12 03 06 09 12 2016 — American Funds Capital World Gr&	2017 2018  Inc R6 —MSCI  Rank 2018 Rank 20 21 -10.0 56 29	2019 2020 202 ACWI NR USD 019 Rank 2020 Rank	1



FRE	GX						MS	CI US RE	IT NR U	SD						l	JS Fund I	Real Esta	te		
Risk & Return Characteristic	s (5 Yea	rs)							Risk &	Retu	rn Illus	strat	ion (5	Years)							
Time Period: 4/1/2017 to 3/31/2022									Time Pe	riod: 4/	1/2017	to 3/3	1/2022								
				Fund				Index	12.0								<ul><li>Nuv</li></ul>	een Real	Estate	Securitie	-s R6
32				98.7				100.0	10.0												
lpha				1.9				0.0	8.0							<u>, k</u>	_ ^ MSC	I US REI	T NR US	SD	
eta				0.9				1.0								1					
td Dev				18.0				19.9	6.0												
p Capture Ratio				98.3				100.0	4.0	-											
own Capture Ratio				84.6				100.0	2.0	_											
narpe Ratio (geo)				0.5				0.4	<b>-</b> 0.0								_				
formation Ratio (geo)				0.5					ביי	0.0	4.0	0.7	n 1	2.0 1	· ·	100	1 0				
acking Error				2.9				0.0	Return 0.0	0.0	4.0	8.0	JI	2.0	6.0	20.0	24.0				
orrelation				1.0				1.0		Std De	v										
olling Return (3 Years)									Rolling	j Risk	(3 Yea	irs)									
22.5 - 15.0 - 7.5 - 0.0 - -7.5 - -15.0 03 06 09 12 03 06 09 1								09 12 03	30.0 22.5 15.0 7.5 Ag 0.0 Bg	03 06	5 09 12						12 03 06 0				9 12
2016	2017	20	18	2019	202	20	2021					2016	,	2017	2	018	2019	202	0	2021	
Nuveen Real Estate Securities R6			-MSCI	US REIT N	IR USD				-Nuvee	n Real	Estate S	Securi	ties R6			▲ MSC	I US REIT I	NR USD			
alendar Year Returns																					
	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	201	17	Rank	2018	Rank	2019	Rank	2020	Rank	2021	R
uveen Real Estate Securities R6	18.3		1.4		31.5	12	3.6	33	7.0	34	5	5.8	43	-5.4	51	25.7	60	-5.9	57	41.5	
SCI US REIT NR USD	16.5		1.3		28.8		1.3		7.1			3.7		-5.8		24.3		-8.7		41.7	



# **GLOSSARY OF TERMS**

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.

 $\label{eq:UpsideCapture} UpsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) \ when \ Period Benchmark \ Return \ is \ > = \ 0$ 

 $Downside Capture = Total Return (Fund Returns)/Total Returns (BMR eturn) \ when \\ Benchmark < 0$ 



# **NEPC DUE DILIGENCE STATUS**

NEPC's Due Diligence Committee is responsible for assigning and maintaining ratings on investment products. The Committee meets every other week to review the events of the preceding two weeks as they relate to the investment management community. NEPC Due Diligence Status are our ratings, if any, as attached to a recent corporate action, announcement or event, such as a portfolio manager change. Within this environment, the Committee maintains a "watch list" consisting of four levels of action: Watch, Hold, Client Review and Terminate, as described below.

	NEPC Due Diligence Status Key				
Inform (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 futu unless a client specifically requests, but current and prospective clients must be 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.				



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