

# Littleton Public Schools

Wendy Dominguez, MBA Elizabeth Stemper, AIF®, QPFC Peter Mustian



# Dodge & Cox Stock 09/30/17

#### **FUND INFORMATION**

Fund Dodge & Cox Family:

Fund Inception: 01/04/1965
Portfolio Team Managed

Manager:

Total \$66,062 Million

Assets : Turnover : 16%

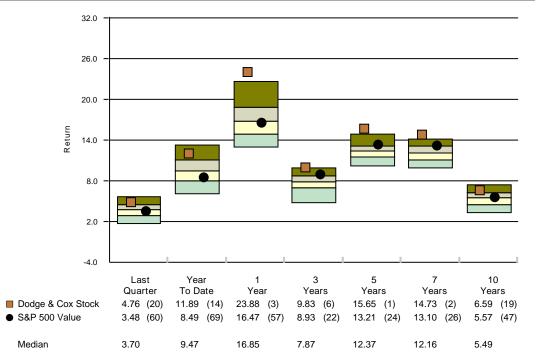
#### Investment Strategy:

The Fund invests primarily in a diversified portfolio of common stocks. In selecting investments, the Fund invests in companies that, in Dodge & Cox's opinion, appear to be temporarily undervalued by the stock market but have a favorable outlook for long-term growth. The Fund focuses on the underlying financial condition and prospects of individual companies. including future earnings, cash flow and dividends. Various other factors, including financial strength, economic condition, competitive advantage. quality of the business franchise and the reputation, experience and competence of a company's management are weighed against valuation in selecting individual securities.

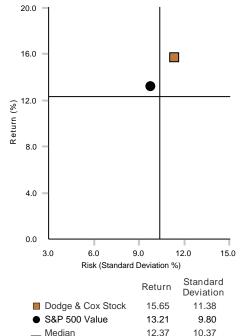
#### Innovest's Assessment:

Dodge & Cox's collaborative, fundamental research approach is expected to generate shareholder value over full market cycles and when markets reward the firm's contrarian style. Conversely, performance may suffer during periods driven by more macroeconomic events, or a disregard for company specific valuation and fundamentals.

#### PEER GROUP ANALYSIS - IM U.S. Large Cap Value Equity (MF)



#### RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Dodge & Cox Stock	21.28 (4)	-4.49 (61)	10.40 (63)	40.55 (1)	22.01 (2)	-4.08 (69)	13.49 (40)
S&P 500 Value	17.40 (22)	-3.13 (33)	12.36 (19)	31.99 (56)	17.68 (26)	-0.48 (31)	15.10 (24)
IM U.S. Large Cap Value Equity (MF) Median	14.13	-3.86	10.88	32.33	15.79	-2.38	12.70

	3 Years Ending	3 Years Ending Sep-2016	3 Years Ending	3 Years Ending Sep-2014	3 Years Ending	3 Years Ending	3 Years Ending
Dodge & Cox Stock	Sep-2017 9.83 (6)	8.91 (22)	Sep-2015 13.39 (4)	Sep-2014 27.22 (3)	Sep-2013 17.82 (6)	Sep-2012 10.50 (36)	Sep-2011 -0.49 (32)
S&P 500 Value	8.93 (22)	9.34 (13)	11.25 (35)	23.46 (32)	15.86 (31)	11.39 (18)	-2.19 (65)
IM U.S. Large Cap Value Equity (MF) Median	7.87	7.71	10.84	22.68	14.98	9.74	-1.30



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# Dodge & Cox Stock 09/30/17

PORT	FOLIO CHARACTER	ISTICS		TOP 10 H	OLDINGS	3							
Wtd. A Mediar Price/E Price/E 5 Yr. E Curren Beta (5 % in In	vg. Mkt. Cap \$M n Mkt. Cap \$M Earnings ratio Book ratio PS Growth Rate (%) at Yield (%) Years, Monthly) at'l Securities	Portfolio \$128,218 \$47,714 20.88 2.57 3.65 1.78 1.09 14.55 78.99	Benchmark \$133,197 \$19,588 19.36 2.20 4.47 2.45 1.00 5.34 N/A 349	Bank of Ame Schwab (Ch Wells Fargo Capital One Charter Con Sanofi Goldman Sa Novartis AG Alphabet Ind Microsoft Co	erica Corp larles) Corp & Co Financial Conmunications achs Group I	orp. s Inc		Portfolio Weight (%) 3.85 3.55 3.50 3.38 3.10 3.01 2.99 2.78 2.72 2.71	В	enchmark Weight (%) 2.60 0.00 2.57 0.43 0.00 0.00 0.89 0.00 0.00 0.00	(	Quar Retu (% 4.9 2.0 0.2 7.8 7.2 2.8 5.9	orn 98 91 95 95 99 99 99 99 99 99 99 99
SECT	OR ALLOCATION		SECTOR	PERFORMAN				TOTAL SE	CTOR A	TTRIBU	TION		
Ir	Real Estate ommunication Services Utilities 0.0	10.0 20.0 30.0	40.0 -4.0	-0.2 2.0 -0.2 0.0 0.0 2.7 0.0 4.0	7.4 .9 5.2 7.5 6.3 5.7	10.3 10.4 12.0	16.0	-	-0.2 -0.5	0.0	0.5	1.0	1.5
	Dodge & Cox Stock	S&P 500 Value	D	odge & Cox Stock	S&P	500 Value				Dodge & C	Cox Stock		
STYI	LE MAP (01/01/79 - 09/30	)/17)		<u></u>	UP/DOWN	N CAPTUR	RE (10/01/1	2 - 09/30/17)					
Capitalization	Large Cap Value		Large Cap Gro	wth	0.001 Captrace - 0.251 Captrace - 0.001				1				
Capit	Small Cap Value	Manager Style	Small Cap Gro	wth	50.0 50.0	0.0	70.0	90.0 Dow	1 vn Capture	10.0	130.0		150.0
<b>8</b>	Style History	Sep-2017	Average Style Ex	kposure	Dodge (	& Cox Stock		_ 0.					



# Vanguard 500 Index 09/30/17

#### **FUND INFORMATION**

Fund Vanguard Group

Family: Inc

Fund Inception: 11/13/2000
Portfolio Butler/Geiger

Manager:

Total \$217,229 Million

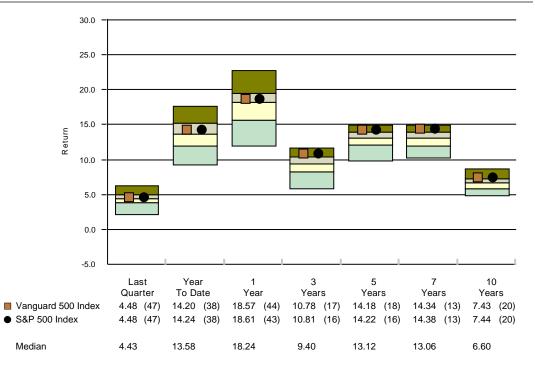
Assets:

Turnover: 4%

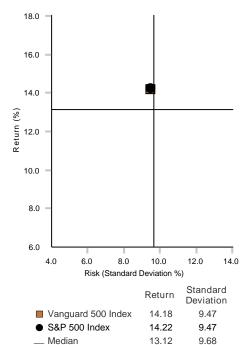
Investment Strategy:

The core of this Fund's strategy is simple: It buys and holds the stocks that make up the S&P 500 Index. The Fund attempts to add value on the margins by opportunistically buying futures contracts, among other techniques, and actively tries to reduce trading costs.

#### PEER GROUP ANALYSIS - IM U.S. Large Cap Core Equity (MF)



#### RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Vanguard 500 Index	11.93 (26)	1.36 (28)	13.64 (15)	32.33 (41)	15.96 (41)	2.08 (24)	15.05 (26)
S&P 500 Index	11.96 (26)	1.38 (28)	13.69 (15)	32.39 (39)	16.00 (40)	2.11 (24)	15.06 (26)
IM U.S. Large Cap Core Equity (MF) Median	10.00	-0.26	11.36	31.82	15.41	-0.55	13.18

	3 Years Ending Sep-2017	3 Years Ending Sep-2016	3 Years Ending Sep-2015	3 Years Ending Sep-2014	3 Years Ending Sep-2013	3 Years Ending Sep-2012	3 Years Ending Sep-2011
Vanguard 500 Index	10.78 (17)	11.12 (8)	12.36 (24)	22.95 (30)	16.23 (26)	13.19 (16)	1.27 (31)
S&P 500 Index	10.81 (16)	11.16 (8)	12.40 (23)	22.99 (29)	16.27 (25)	13.20 (15)	1.23 (32)
IM U.S. Large Cap Core Equity (MF) Median	9.40	9.16	11.40	21.88	14.85	11.17	0.44



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# Vanguard 500 Index 09/30/17

PORT	FOLIO CHARACTE	RISTICS		TOP 10 HOLDINGS			
Median Price/E Price/B 5 Yr. El Current Beta (5 % in Int Active S	evg. Mkt. Cap \$M  In Mkt. Cap \$M  Earnings ratio  Book ratio  IPS Growth Rate (%)  It Yield (%)  Years, Monthly)  It'l Securities  Share  IPS Grocks	Portfolio \$175,960 \$21,056 22.42 3.29 9.96 1.98 1.00 3.70 0.10 506	Benchmark \$175,944 \$21,055 22.42 3.29 9.96 1.98 1.00 3.70 N/A 505	Apple Inc Microsoft Corp Facebook Inc Amazon.com Inc Johnson & Johnson Exxon Mobil Corp JPMorgan Chase & Co Berkshire Hathaway Inc Alphabet Inc	Portfolio Weight (%) 3.69 2.66 1.88 1.78 1.62 1.61 1.56 1.34	Benchmark Weight (%) 3.69 2.66 1.88 1.78 1.62 1.61 1.56 1.63 1.34 1.34	Quarterly Return (%) 7.45 8.64 13.17 -0.69 -1.10 2.54 5.06 8.24 4.74 5.54
SECT	OR ALLOCATION		SECTOR PE	ERFORMANCE	TOTAL S	ECTOR ATTRIBUTIO	N
In	Real Estate -	12:2 5:8 14:5 14:5 16:2 22:9 22:9 23:0 24:0	32.0 -6.0 -3.0	-1:3 	9.0 12.0 -0.2	·	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	Vanguard 500 Inde	x S&P 500 Index	Vangu	uard 500 Index S&P 500 Ind	dex	Vanguard 500 I	ndex
STYL	LE MAP (12/01/00 - 09/	30/17)		UP/DOWN CAP	PTURE (10/01/12 - 09/30/17)		
Capitalization	Large Cap Value		Large Cap Growth	150.0 - e 125.0 - 100.0 -			
Capital	O Small Cap Value	Manager Style	O Small Cap Growth	→ 75.0 50.0 50.0	70.0 90.0 Do	110.0 own Capture	130.0 150.0
s	Style History	Sep-2017	Average Style Expos	sure Vanguard 500		νωπ Οαριαι <del>σ</del>	



# Harbor Cap Apprec 09/30/17

#### **FUND INFORMATION**

Fund Harbor Capital Family: Advisors Inc Fund Inception: 12/29/1987

Portfolio Segalas/McCarragh

Manager:

Total \$23,086 Million

Assets:

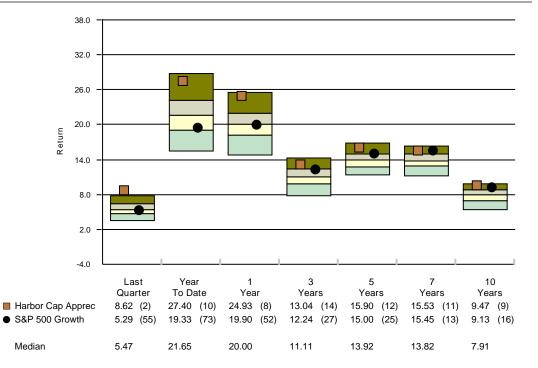
Turnover: 34% Investment Strategy:

The fund seeks large cap companies that are growing revenues faster than the S&P 500 average and have durable growth prospects driven by strong balance sheets, strong R&D capabilities, and defensible franchises. Mr. Segalas also prefers revenue growth resulting from strong increases in unit sales. In addition, because Mr. Segalas is willing to pay a premium for strong growth prospects, the fund's valuation metrics tend to be above average.

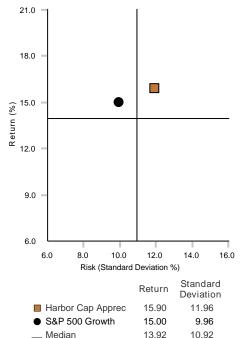
#### Innovest's Assessment:

The fund will tend to outperform during periods of average earnings growth because portfolio companies will be more apt to experience earnings growth that exceeds the average. In contrast, during periods when earnings for most companies are contracting, the fund may underperform the benchmark. Likewise, the fund may underperform when strong fundamental value is rewarded and secondary growth measurements are overlooked.

#### PEER GROUP ANALYSIS - IM U.S. Large Cap Growth Equity (MF)



#### RISK VS. RETURN (5 YEARS\*)



Median

#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2016 2015		2014 2013		2011	2010
Harbor Cap Apprec	-1.07 (78)	10.99 (6)	9.93 (58)	37.66 (17)	15.69 (42)	0.61 (25)	11.61 (79)
S&P 500 Growth	6.89 (8)	5.52 (51)	14.89 (5)	32.75 (63)	14.61 (54)	4.65 (4)	15.05 (51)
IM U.S. Large Cap Growth Equity (MF) Median	1.92	5.63	10.51	33.95	14.82	-1.86	15.14

#### ROLLING 3 YEAR RETURN AND PERCENTILE RANKINGS

	3 Years						
	Ending Sep-2017	Ending Sep-2016	Ending Sep-2015	Ending Sep-2014	Ending Sep-2013	Ending Sep-2012	Ending Sep-2011
Harbor Cap Apprec	13.04 (14)	11.28 (26)	15.35 (8)	22.00 (39)	16.85 (21)	12.73 (38)	5.63 (16)
S&P 500 Growth	12.24 (27)	12.75 (7)	13.49 (32)	22.62 (28)	16.73 (23)	14.93 (11)	4.47 (27)
IM U.S. Large Cap Growth Equity (MF) Median	11.11	10.04	12.79	21.39	15.22	12.13	2.42



10.92

<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# Harbor Cap Apprec 09/30/17

PORT	FOLIO CHARACTER	RISTICS			TOP 10	HOLDINGS	3							
Mediar Price/E Price/E 5 Yr. E Curren Beta (5 % in In Active	avg. Mkt. Cap \$M  In Mkt. Cap \$M  Earnings ratio  Book ratio  IPS Growth Rate (%)  Int Yield (%)  Years, Monthly)  It'l Securities  Share  er of Stocks	18 ( -	,776	enchmark \$210,012 \$21,788 25.53 5.26 14.24 1.61 1.00 2.39 N/A 331	Apple Inc Facebook Alibaba G Amazon.o Microsoft Visa Inc Masterca Netflix Inc Celgene o	Inc iroup Holding com Inc Corp rd Inc Corp	Ltd		Portfolio Weight (%) 6.43 5.11 4.35 4.34 4.06 3.56 3.52 3.51 3.11 2.89	В	enchmark Weight (%) 6.63 3.37 0.00 3.19 4.78 1.60 1.10 0.65 0.95 0.89		Ret (% 7 13 22 -0 8 12 16 21	rterly urn %) .45 .17 .58 .69 .64 .40 .47 .38 .28
SECT	OR ALLOCATION			SECTOR	R PERFORMA	NCE			TOTAL S	SECTOR A	ATTRIBL	JTION		
Ir	Energy - Financials - Health Care - Industrials - Information Technology - Materials - Real Estate - Inmunication Services -		53.0 60.0 80.0	-10.0	2.5 3.5 6.0 6.0 6.0 8.4 76.1 5.6 8.8 9.75 0.0 10. Harbor Cap Appro	0.2	29.5 30.0 500 Growth	40.0	-1.0	0.0	0.4		1.7 1.5 2.	0 2.5
OT (1					· · · · · · · · · · · · · · · · · · ·							мр <i>г</i> . гр. ос		
SIYI	LE MAP (01/01/88 - 09/3	30/17)					N CAPIU	RE (10/01/	12 - 09/30/17	7)				
Capitalization	Large Cap Value		14	Large Cap G	rowth	150.0 = e 125.0 = 0 100.0 =						1		
Capite	O Small Cap Value	Manager	Style	Small Cap G	rowth	ි <sub>75.0</sub> -	0.0	70.0	90.0	) 1 own Capturo	110.0	130	1.0	150.0
<b>S</b>	Style History	Sep-2017		erage Style I	Exposure	Harbor	Cap Apprec	;	D	own oaptur	•			



# BlackRock:MC Val Opp 09/30/17

#### **FUND INFORMATION**

Fund BlackRock Inc Family:

Fund Inception: 02/01/1995 Portfolio Balaraman/Coyle

Manager:

Total \$159 Million

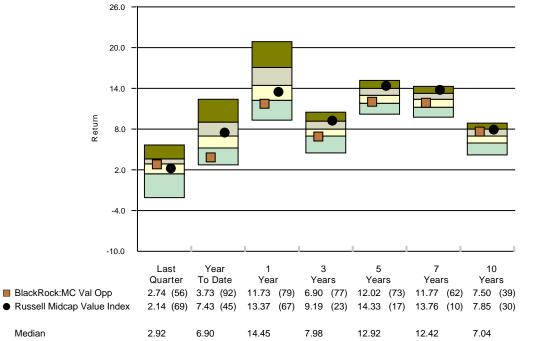
Assets:

Turnover: 93%

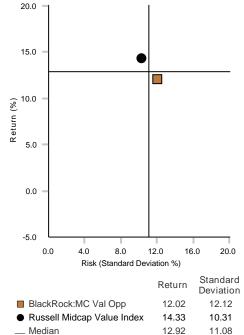
Investment Strategy: The BlackRock Mid Cap Value Opportunities Fund is a bottom-up, fundamental research focused team that seeks to identify out-of-favor names with strong upside potential. The team focuses on companies trading at the low end of their historical valuations and draws on BlackRock's robust pool of equity and fixed income research analysts as well as their own team's global small cap knowledge to aid them in their decision-making process.

Innovest's Assessment: The strategy should be expected to outperform when globally focused companies and smaller capitalization companies are doing well. It should underperform when more regional firms in fragmented regional markets are experiencing outsized growth or when domestically focused firms are leading.

#### PEER GROUP ANALYSIS - IM U.S. Mid Cap Value Equity (MF)



# RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
BlackRock:MC Val Opp	22.77 (12)	-6.69 (64)	6.68 (85)	33.72 (68)	13.62 (89)	-0.26 (23)	26.07 (14)
Russell MCV Index	20.00 (34)	-4.78 (46)	14.75 (9)	33.46 (72)	18.51 (22)	-1.38 (37)	24.75 (25)
IM U.S. Mid Cap Value Equity (MF) Median	17.06	-5.62	10.26	35.75	16.70	-3.64	21.76

	3 Years Ending Sep-2017	3 Years Ending Sep-2016	3 Years Ending Sep-2015	3 Years Ending Sep-2014	3 Years Ending Sep-2013	3 Years Ending Sep-2012	3 Years Ending Sep-2011
BlackRock:MC Val Opp	6.90 (77)	7.12 (59)	10.95 (81)	21.80 (70)	16.63 (52)	13.10 (32)	3.90 (23)
Russell MCV Index	9.19 (23)	10.49 (9)	13.69 (23)	24.72 (23)	17.27 (40)	13.86 (15)	1.98 (55)
IM U.S. Mid Cap Value Equity (MF) Median	7.98	7.64	12.71	23.35	16.89	12.09	2.10



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# BlackRock:MC Val Opp 09/30/17

PORT	FOLIO CHARACTERIS	STICS		TOP 10 HOLDI	NGS						
Median Price/E Price/B 5 Yr. E Curren Beta (5 % in In	vg. Mkt. Cap \$M  n Mkt. Cap \$M  Earnings ratio  Book ratio  PS Growth Rate (%)  It Yield (%)  Years, Monthly)  It'l Securities  Share  er of Stocks	Portfolio \$14,866 \$11,788 17.84 2.23 14.79 2.39 1.13 12.46 81.74 93	Benchmark \$13,555 \$7,048 19.83 2.09 8.99 2.20 1.00 5.77 N/A 587	CDW Corp Analog Devices In SunTrust Banks In Regions Financial Cummins Inc. Allstate Corp (The FirstEnergy Corp. Great Plains Energ KeyCorp Dolby Laboratories	ic. Corp ) gy Inc	2. 2. 2. 2. 2. 2. 2.	ght	Benchmark Weight (%) 0.00 0.00 0.75 0.48 0.47 0.00 0.36 0.17 0.53 0.08		Quarte Retur (%) 5.8: 11.37 6.14 4.74 4.33 4.33 6.99 4.44 0.97 17.80	n 3 7 4 4 1 5 1 5 7
SECT	OR ALLOCATION		SECTOR P	ERFORMANCE			OTAL SEC	CTOR ATTRIB	JTION		
Ir	Consumer Discretionary Consumer Staples Energy Financials Health Care Industrials Information Technology Materials Real Estate Industrials Real Estate Industrials Real Estate Industrials Industrials Information Technology Industrials Information Technology Information Technology Information Technology Information Technology Information Information Services Information Informa	87 12.0 -4.17 -7.5 -6.797 -6.797 -6.4 -5.26.8 -7.2 -14.8 -3.90 -9.90.9 8.0 16.0 24.0	32.0 -24.0 -1	-2.6.7 -1.4 -5.7.1 -0.6 -12.5 -1.31 -1.6.0 -8.0	4.7 9.4 3.9 9.4 4.0 7.2	10.1	-2.1 -1.	-0.1 1.2 0.0 -0.2	0.1 0.0 0.0	1.0	2.1
	BlackRock:MC Val Opp	Russell MCV Index	BlackRo	ock:MC Val Opp	Russell MCV Inc	dex		BlackRock	:MC Val Opp		
STYL	LE MAP (03/01/95 - 09/30/	17)		UP/D	OWN CAPTU	JRE (10/01/12	- 09/30/17)				
Capitalization	Large Cap Value		Large Cap Growth	Up Capture	75.0 75.0 75.0						_
L		Manager Style			50.0	70.0	90.0 Dowr	110.0 n Capture	130.0		150.0
s	Style History	Sep-2017	Average Style Expo	osure B	lackRock:MC Val	I Орр					



# Vanguard Mid-Cap Index 09/30/17

#### **FUND INFORMATION**

Fund Vanguard Group

Family: Inc

Fund Inception: 05/21/1998
Portfolio Donald M. Butler

Manager:

Total \$4,161 Million

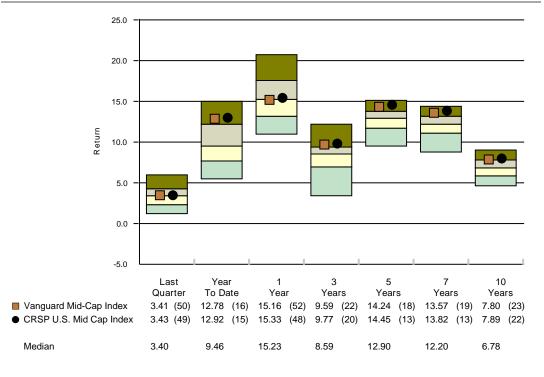
Assets:

Turnover: 15%

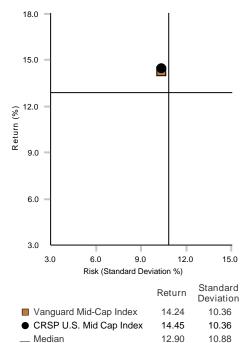
#### Investment Strategy:

The Fund tracks the CRSP US Mid Cap Index. The CRSP US Mid Cap Index targets inclusion of the U.S. companies that fall between the top 70%-80% of investable market capitalization. The index includes securities traded on NYSE, NYSE Market, NASDAQ or ARCA.

#### PEER GROUP ANALYSIS - IM U.S. Mid Cap Core Equity (MF)



#### RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Vanguard Mid-Cap Index	11.07 (80)	-1.46 (26)	13.60 (12)	35.00 (51)	15.80 (50)	-2.11 (33)	25.46 (25)
CRSP U.S. Md Cp Idx	11.25 (77)	-1.28 (23)	13.83 (9)	35.27 (45)	16.70 (40)	-1.79 (29)	26.16 (18)
IM U.S. Mid Cap Core Equity (MF) Median	14.53	-3.27	9.12	35.00	15.77	-3.44	23.20

	3	3	3	3	3	3	3
	Years	Years	Years	Years	Years	Years	Years
	Ending	Ending	Ending	Ending	Ending	Ending	Ending
	Sep-2017	Sep-2016	Sep-2015	Sep-2014	Sep-2013	Sep-2012	Sep-2011
Vanguard Mid-Cap Index	9.59 (22)	9.76 (11)	14.50 (16)	23.12 (34)	16.97 (33)	13.81 (17)	4.55 (16)
CRSP U.S. Md Cp Idx	9.77 (20)	9.96 (8)	14.75 (12)	23.30 (32)	17.30 (28)	14.15 (11)	3.92 (23)
IM U.S. Mid Cap Core Equity (MF) Median	8.59	7.63	12.37	22.11	15.89	11.71	2.11



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# Vanguard Mid-Cap Index 09/30/17

PORTFO	OLIO CHARACTERI	STICS		TOP 10	HOLDINGS	3					
Wtd. Avg. Median MI Price/Earn Price/Book 5 Yr. EPS Current Yi	Mkt. Cap \$M kt. Cap \$M hings ratio k ratio Growth Rate (%) field (%) ears, Monthly) Securities	Portfolio \$14,431 \$11,471 22.73 2.88 10.25 1.57 1.00 5.98 0.10	Benchmark \$14,431 \$11,560 22.74 2.88 10.26 1.57 1.00 5.98 N/A	Lam Res Fiserv In Amphend Western Roper Te Autodesk	earch Corp c. ol Corp Digital Corp echnologies Inc			Portfolio Weight (%) 0.83 0.75 0.71 0.69 0.69 0.68	Benchmark Weight (%) 0.83 0.75 0.71 0.69 0.69 0.68	(	Quarterly Return (%) 31.18 5.41 14.92 -1.92 5.28 11.35 5.57
Number of	f Stocks	351	338	Moody's	Lifesciences C Corp.	orp		0.64 0.64 0.62	0.64 0.64 0.62		1.47 -7.55 14.74
SECTOR	R ALLOCATION		SECTOR	PERFORMA	NCE			TOTAL SEC	CTOR ATTRIBL	JTION	
Infor	Consumer Staples Energy Financials Health Care Industrials mation Technology Materials Real Estate nunication Services Utilities  0.0	<b></b> 8:1 <b></b> 7: <del>3</del>	1 <del>7.7</del>	-2:£	5	7:5 :8 3 	16.0	-0.2	-0.1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1
	anguard Mid-Cap Index MAP (06/01/98 - 09/30	CRSP U.S. Md Cp	Idx Vangua	ard Mid-Cap Ind		P U.S. Md		12 - 09/30/17)	Vanguard M	id-Cap Index	
Capitalization	Large Cap Value		Large Cap Gro	owth	150.0 – e 125.0 – f 100.0 –	<b>V O</b> /W <b>T C</b>	7KE (10/01/	12 03/30/11)			
Capit	O Small Cap Value	Manager Style	Small Cap Gro	owth	Ö 75.0 − 50.0 50	0.0	70.0	90.0 Dowi	110.0 n Capture	130.0	150.0
Style	e History	Sep-2017	Average Style Ex	xposure	Vangua	ırd Mid-Cap	Index				



# Janus Hend Enterprise 09/30/17

#### **FUND INFORMATION**

Fund Janus Capital
Family: Management LLC
Fund Inception: 07/06/2009
Portfolio Demain/Wheaton

Manager:

Total \$4,410 Million

Assets:

Turnover: 8%

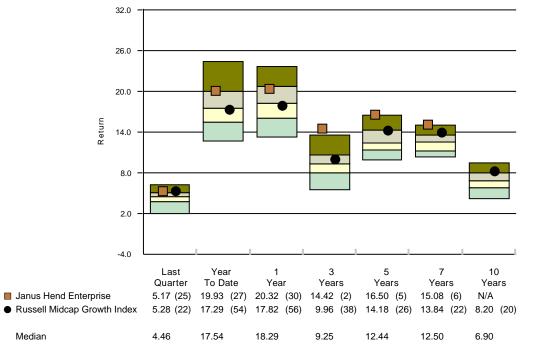
#### Investment Strategy:

The fund's management focuses on what it deems "smart growth" companies - those with sustainable growth and high returns on invested capital. Businesses that reinvest cash flows to generate organic growth are especially favored by the fund's management. The fund seeks out companies that have long-term growth stories causing the portfolio to have a relatively low turnover and a broader opportunity set than funds that demand shorter-term results.

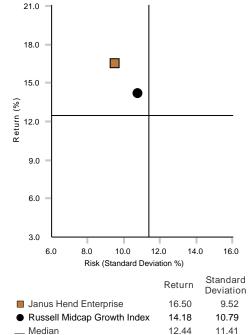
#### Innovest's Assessment:

This strategy is likely to outperform its peers and the index in down markets, with a downside capture ratio of 92% relative to the Russell Mid Cap Growth index. In addition, given its frequent overweight to tech and healthcare stocks, it tends to perform better when these sectors are in favor. In contrast, the fund may underperform during lower quality rallies.

#### PEER GROUP ANALYSIS - IM U.S. Mid Cap Growth Equity (MF)



# RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Janus Hend Enterprise	12.08 (5)	3.49 (14)	12.01 (8)	30.86 (77)	17.83 (15)	-1.65 (30)	26.06 (46)
Russell MC Growth Idx	7.33 (26)	-0.20 (48)	11.90 (9)	35.74 (45)	15.81 (32)	-1.65 (30)	26.38 (44)
IM U.S. Mid Cap Growth Equity (MF) Median	4.84	-0.44	7.14	35.32	14.36	-4.61	25.43

	3	3	3	3	3	3	3
	Years Ending Sep-2017	Years Ending Sep-2016	Years Ending Sep-2015	Years Ending Sep-2014	Years Ending Sep-2013	Years Ending Sep-2012	Years Ending Sep-2011
Janus Hend Enterprise	14.42 (2)	11.88 (1)	15.05 (14)	20.93 (40)	16.63 (37)	14.04 (31)	N/A
Russell MC Growth Idx	9.96 (38)	8.90 (19)	13.97 (23)	22.74 (18)	17.65 (22)	14.73 (22)	5.89 (21)
IM U.S. Mid Cap Growth Equity (MF) Median	9.25	6.45	12.01	20.41	16.07	12.95	3.57



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# Janus Hend Enterprise 09/30/17

PORTFO	OLIO CHARACTERIS	TICS			TOP	10 HOLDIN	NGS							
Wtd. Avg. Median M Price/Earr Price/Boo 5 Yr. EPS Current Y	. Mkt. Cap \$M Ikt. Cap \$M nings ratio ok ratio 6 Growth Rate (%) field (%) ears, Monthly) Securities are	Portfoli \$14,97 \$8,75 31.4 4.7 21.5 0.9 0.8 24.2 83.2	79 53 60 71 51 60 60 85	enchmark \$14,637 \$8,002 27.76 5.47 13.08 1.05 1.00 4.06 N/A 420	Sensa TD AM Aon P Lamar Quintil Perkin TE Co Const	ta Tech MERITRADE LC Advertising 0 es Transnatio Elmer Inc. nnectivity Ltd ellation Softw Castle Interr	Holding C Co onal I are Inc national C			Portfolio Weight (%) 2.62 2.48 2.18 2.06 2.05 2.01 2.00 1.97 1.93	ı	Benchmark Weight (%) 0.14 0.38 0.00 0.17 0.27 0.05 0.00 0.00 0.00	F	Return (%) 12.52 13.96 10.18 -5.64 6.22 1.32 6.10 4.41 0.70
SECTO	R ALLOCATION			SECTOR	Bostoi R PERFORI	N Scientific Co	orp			1.92 TOTAL SE	CTOR A	0.00 TTRIBUTIO	N	5.23
Infor	Sumer Discretionary Consumer Staples Energy Financials Health Care Industrials rmation Technology Materials Real Estate munication Services Utilities 0.0	6.5 15.0 20.7 16.6 27.1 3	45.0 60.0	_	-1.8 0. -11.8 -4.2 -2.7 0.0	6.4 -9.0 13.9 \$ -6.7 -7.9.6 4.0 -11.4 20.0	40.0	8.8 60.0	80.0	-0.6	-0.2 -0.3 -0.3	0.0	0.3 0.3	0.4
	Janus Hend Enterprise  MAP (08/01/09 - 09/30/1	Russell MC Gi	rowth ldx	Jan	us Hend Enter		Russell M			2 - 09/30/17)	Ja	anus Hend Ente	erprise	
Capitalization	Large Cap Value		- 4	Large Cap Gr O	rowth	Capture 150	5.0		·	,				
Capital	O Small Cap Value	Manager S	tvle	Small Cap Gr	rowth	Ŝ 75	50.0		70.0	90.0 Dov	1 <sup>2</sup> vn Capture	10.0	130.0	150.0
Style	e History	Sep-2017		erage Style E	Exposure	Jai	nus Hend	Enterpris	e	DOV	vii Capture			



# DFA US Small Cap Val 09/30/17

#### **FUND INFORMATION**

Fund Dimensional Fund Family: Advisors LP Fund Inception: 03/02/1993 Portfolio Team Managed

Manager:

Total \$14,974 Million

Assets:

Turnover: 19%

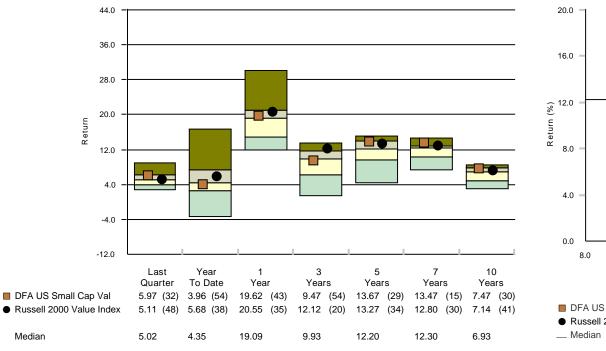
#### Investment Strategy:

DFA uses a quantitative structured approach to asset class investing. Their investment philosophy is deeply rooted in the belief that investors are rewarded for the levels of risk taken. Managers structure their portfolios to deliver the return premiums of the small cap value asset class in a highly efficient manner. DFA's philosophy in regard to the small cap risk factor has remained consistent since inception. Refinements to the strategy are evaluated on an ongoing basis and are introduced upon approval from the Investment Committee.

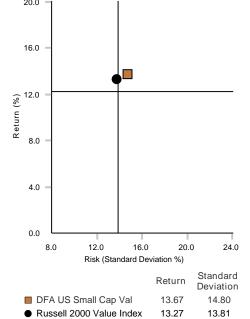
#### Innovest's Assessment:

Dimensional is likely to outperform when smaller capitalization securities are in vogue. Investors must endure periods where risk has its consequences; however, causing the strategy to underperform during periods when smaller companies are out-offavor.

#### PEER GROUP ANALYSIS - IM U.S. Small Cap Value Equity (MF)



#### RISK VS. RETURN (5 YEARS\*)



12.20

13.85

#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
DFA US Small Cap Val	28.26 (54)	-7.81 (51)	3.48 (44)	42.38 (19)	21.72 (10)	-7.55 (78)	30.90 (11)
Russell 2000 Val Idx	31.74 (23)	-7.47 (47)	4.22 (32)	34.52 (50)	18.05 (27)	-5.50 (64)	24.50 (58)
IM U.S. Small Cap Value Equity (MF) Median	29.17	-7.67	2.84	34.48	15.30	-2.78	24.87

	3 Years						
	Ending Sep-2017	Ending Sep-2016	Ending Sep-2015	Ending Sep-2014	Ending Sep-2013	Ending Sep-2012	Ending Sep-2011
DFA US Small Cap Val	9.47 (54)	5.91 (43)	11.78 (10)	24.99 (10)	19.45 (19)	13.10 (32)	-0.25 (65)
Russell 2000 Val Idx	12.12 (20)	6.77 (30)	9.18 (40)	20.61 (41)	16.57 (54)	11.72 (52)	-2.78 (90)
IM U.S. Small Cap Value Equity (MF) Median	9.93	5.08	8.44	20.13	16.74	11.77	0.50



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# DFA US Small Cap Val 09/30/17

PORT	FOLIO CHARACTEI	RISTICS			TOF	10 HOL	DINGS	;								
Wtd. A Mediar Price/E Price/E 5 Yr. E Curren Beta (5 % in In	avg. Mkt. Cap \$M  n Mkt. Cap \$M  Earnings ratio  Book ratio  EPS Growth Rate (%)  at Yield (%)  Years, Monthly)  at Securities	Portfo \$2,13 \$48 20.4 1.6 5.3 1.2 1.0 3.6 57.4	38 88 88 18 64 64 80 24 95 58 88	enchmark \$1,996 \$725 18.87 1.72 6.94 1.86 1.00 3.30 N/A 1,396	Wint CAC Han Aarc MKS Tere Han Asso SYN	trust Financ Ol Internation over Insuration's Inc On's Inc Ol Instrumer Ex Corp Cock Holdin Ociated Bar INEX Corp	cial Corp. cial Corp. ance ants Inc ang Co ac-Corp			Portfolio Weight (%) 0.85 0.81 0.80 0.79 0.78 0.78 0.74		Bench Weig (% 0.4 0.3 0.0 0.2 0.0 0.4 0.0 0.4 0.0	ght 3 4 10 10 18 10 10 10 10		Quarte Retur (%) 2.64 11.43 9.94 12.23 40.65 20.30 -0.58 -3.25 5.68	n 4 3 4 4 3 5 5 5 8 8 5 8
SECT	OR ALLOCATION			SECTO	R PERFOR	ing Ingredic				0.72 TOTAL	. SECT	0.2 OR ATT		ON	11.31	I
Ir	Energy Financials Health Care Industrials Information Technology Materials Real Estate Inmunication Services	10.4 14.8 10.4 14.8 10.4 14.8 10.4 14.8 10.4 14.8 16.7 11.7 18.9 11.7 14.9 11.7 16.9 11.7 16.9 11.7 16.9 11.7 16.9 11.7 16.9 10.0 20.0	27.5 <sub>0.3</sub> 30.0 40.0	-30.0	-14.9 <del></del>	-5.0 <b>-</b> -10.0	22.0	3.6 <sup>5.4</sup> -6.1 9.2 -4.7 <sub>3</sub> -6.1 9.1 -8.0 <sup>2</sup> -1.1 9.1 -8.0 <sup>9.8</sup> -7.1 -10.0	20.0	-1.2	-0.8		0.1	0.4	0.8	1.2
STYI	U.  DFA US Small Cap Va  LE MAP (04/01/93 - 09/3	Russell 2000		_	-20.0 A US Small C	Cap Val	Russ	ell 2000 Va	al Idx	-1.2 1/12 - 09/30/		_	US Small		0.0	1.2
	Large Cap Value			Large Cap G	Srowth	Capture	150.0		(10/0							
Capitalization	Small Cap Value	Manager S	Style	O Small Cap G	Growth	o an	75.0 – 50.0	.0	70.0	90	).0 Down C	110.0	)	130.0		150.0
S	Style History	Sep-2017		rerage Style	Exposure		DFA US	S Small Cap	o Val		•					



# Vanguard Small Cap Index Adm 09/30/17

#### **FUND INFORMATION**

Fund Vanguard Group

Family: Inc

Fund Inception: 11/13/2000
Portfolio Coleman/O'Reilly

Manager:

Total \$31,888 Million

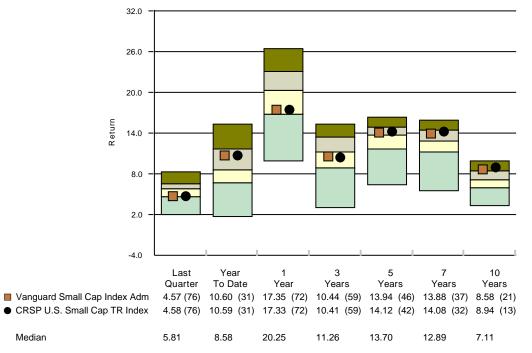
Assets:

Turnover: 14%

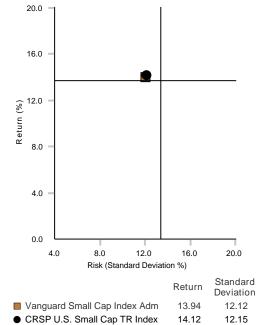
#### Investment Strategy:

This fund tracks the CRSP U.S. Small Cap Index, which is comprised of U.S. companies that fall between the bottom 2%-15% of the investable market capitalization. There is no lower limit in market capitalization, other than what is specified by investability screens.

#### PEER GROUP ANALYSIS - IM U.S. Small Cap Core Equity (MF)



#### RISK VS. RETURN (5 YEARS\*)



\_\_ Median

#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Vanguard Small Cap Index Adm	18.30 (73)	-3.64 (41)	7.50 (8)	37.81 (45)	18.24 (23)	-2.69 (34)	27.89 (23)
CRSP U.S. Small Cap TR Index	18.26 (73)	-3.68 (41)	7.54 (7)	38.48 (43)	18.59 (20)	-1.85 (24)	27.98 (22)
IM U.S. Small Cap Core Equity (MF) Median	22.06	-4.41	3.51	36.97	15.06	-4.63	25.56

#### **ROLLING 3 YEAR RETURN AND PERCENTILE RANKINGS**

	3 Years Ending Sep-2017	3 Years Ending Sep-2016	3 Years Ending Sep-2015	3 Years Ending Sep-2014	3 Years Ending Sep-2013	3 Years Ending Sep-2012	3 Years Ending Sep-2011
Vanguard Small Cap Index Adm	10.44 (59)	7.92 (22)	12.48 (27)	23.55 (18)	18.97 (26)	14.22 (15)	2.66 (25)
CRSP U.S. Small Cap TR Index	10.41 (59)	7.91 (22)	12.81 (19)	23.66 (18)	19.48 (23)	15.03 (7)	4.23 (12)
IM U.S. Small Cap Core Equity (MF) Median	11.26	6.22	10.83	20.84	17.04	11.35	0.33



13.70

13.39

<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# Vanguard Small Cap Index Adm 09/30/17

PORT	FOLIO CHARACTEI	RISTICS	J	TOP 10 HOLDINGS			
Wtd. Av Median Price/E Price/B 5 Yr. El Current Beta (5	vg. Mkt. Cap \$M  Mkt. Cap \$M  arnings ratio  book ratio PS Growth Rate (%) t Yield (%) Years, Monthly)	Portfolio \$4,375 \$2,244 22.73 2.66 12.78 1.49 1.00	Benchmark \$4,376 \$2,246 22.73 2.66 12.78 1.49 1.00	Teleflex Inc Take-Two Interactive Software Inc CDW Corp Alnylam Pharmaceuticals Inc Diamondback Energy Inc Broadridge Fin. Solutions	Portfolio Weight (%) 0.32 0.32 0.30 0.28 0.28	Benchmark Weight (%) 0.32 0.32 0.30 0.28 0.28	Quarterly Return (%) 16.66 39.32 5.83 47.30 10.30 7.45
Active \$	t'l Securities Share er of Stocks	3.00 0.16 1,432	2.99 N/A 1,412	Chemours Co (The) IDEX Corporation CoStar Group Inc Spirit Aerosystems Holdings Inc	0.27 0.27 0.27 0.27	0.27 0.27 0.26 0.27	33.55 7.83 1.76 34.31
SECT	OR ALLOCATION		SECTOR PE	ERFORMANCE	TOTAL SEC	TOR ATTRIBUTION	
In	Utilities -	mall Cap Index Adm	24.0 -16.0	-8.0 0.0 8.0  Vanguard Small Cap Index Adm	16.0	_	0.0 0.0 .0 0.1
	CRSP U.S.	Small Cap TR Index		CRSP U.S. Small Cap TR Index		Vanguard Small Cap Inc	lex Adm
STYL	_E MAP (12/01/00 - 09/3	30/17)		UP/DOWN CAPTUR	RE (10/01/12 - 09/30/17)		
Capitalization	Large Cap Value		Large Cap Growth	150.0 - 125.0 - 100.0 - 150.0			
Capital	O Small Cap Value	Manager Style	Small Cap Growth	75.0 – 50.0 – 50.0	70.0 90.0 Down	110.0 13 Capture	150.0
s	tyle History	Sep-2017	Average Style Expos	sure Vanguard Small Cap		·	



# Voya:SmCp Opptys;I 09/30/17

#### **FUND INFORMATION**

Fund Vova Investments Family: LLĆ

Fund Inception: 04/01/1999 Portfolio Hasso/Basset

Manager:

Total \$801 Million

Assets:

Turnover: 79%

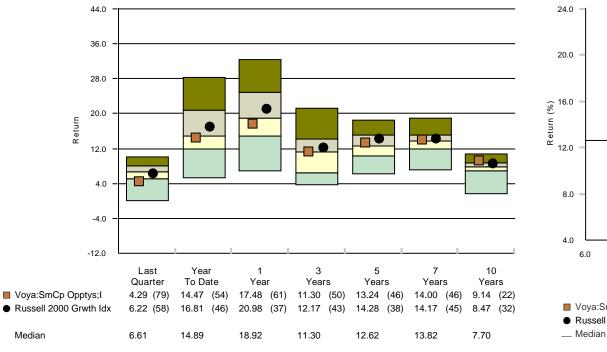
#### Investment Strategy:

The Small Cap Opportunities investment team sees its mission as finding unrecognized value before the consensus does. The team engages in fundamental research, leveraging each member's sector and industry experience. At the same time, they identify secular and cyclical macroeconomic themes that they expect to drive growth within different sectors. The investment team also emphasizes meeting with the management teams of investment candidates. Finally, the team rigorously analyzes company cash flow statements, evaluating the company's ability to generate cash and reinvest in future growth opportunities.

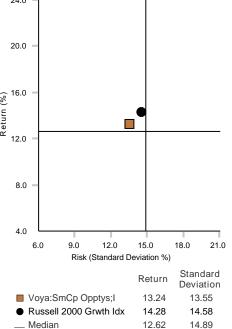
#### Innovest's Assessment:

Given that the portfolio is welldiversified and hues close to the benchmark's sector weightings, relative performance should rarely fluctuate significantly. Still, the focus on companies that generate cash flows for reinvestment may result in some lag during lower quality growth rallies. The strategy should also protect relatively well in down markets.

#### PEER GROUP ANALYSIS - IM U.S. Small Cap Growth Equity (MF)



#### RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Voya:SmCp Opptys;I	12.72 (36)	-1.23 (35)	5.19 (21)	37.94 (72)	15.26 (19)	0.68 (14)	33.78 (15)
Russell 2000 Grwth Idx	11.32 (44)	-1.38 (36)	5.60 (16)	43.30 (48)	14.59 (23)	-2.91 (36)	29.09 (33)
IM U.S. Small Cap Growth Equity (MF) Median	8.64	-3.29	1.55	43.05	11.62	-4.19	27.07

#### ROLLING 3 YEAR RETURN AND PERCENTILE RANKINGS

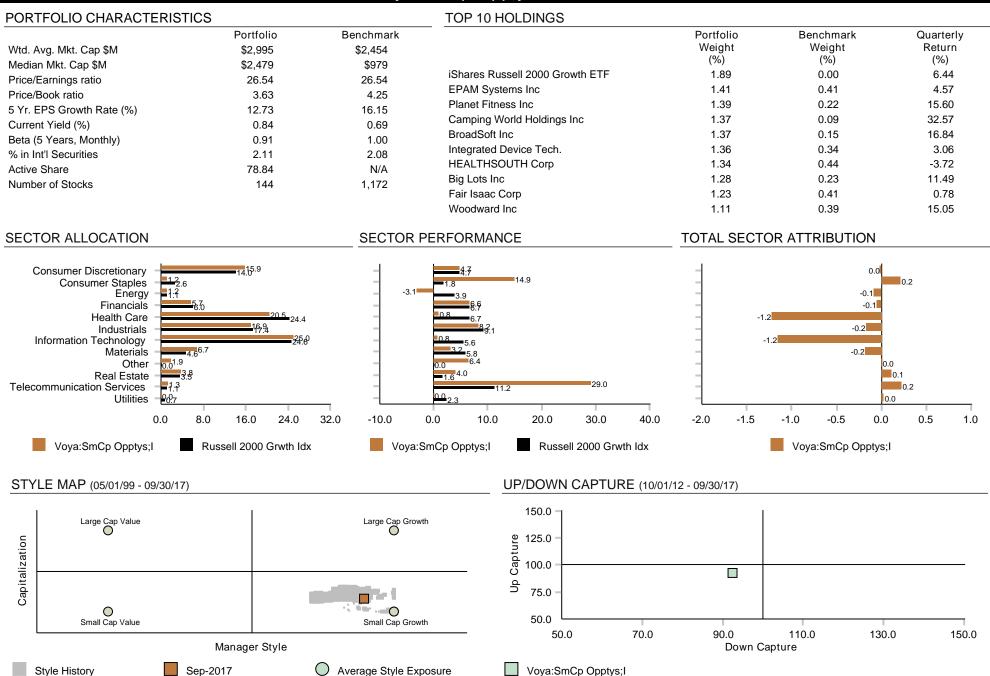
	3 Years Ending Sep-2017	3 Years Ending Sep-2016	3 Years Ending Sep-2015	3 Years Ending Sep-2014	3 Years Ending Sep-2013	3 Years Ending Sep-2012	3 Years Ending Sep-2011
Voya:SmCp Opptys;I	11.30 (50)	6.80 (22)	11.05 (46)	21.99 (26)	20.48 (36)	17.06 (14)	4.14 (32)
Russell 2000 Grwth Idx	12.17 (43)	6.58 (23)	12.85 (24)	21.91 (28)	19.96 (37)	14.19 (40)	2.07 (46)
IM U.S. Small Cap Growth Equity (MF) Median	11.30	3.78	10.57	19.35	19.00	13.33	1.67



14.89

<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# Voya:SmCp Opptys;I 09/30/17





#### Am Beacon Intl 09/30/17

#### **FUND INFORMATION**

Fund American Beacon
Family: Advisors Inc
Fund Inception: 08/07/1991
Portfolio Team Managed

Manager:

Total \$1,587 Million

Assets:

Turnover: 25%

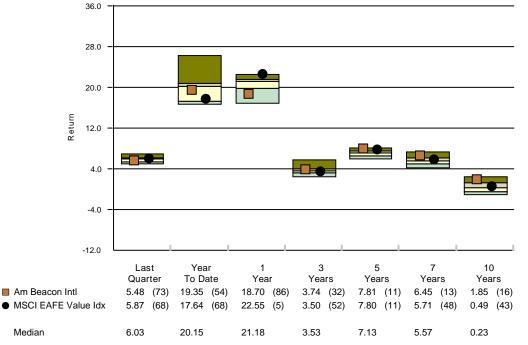
#### Investment Strategy:

The fund seeks undervalued securities primarily in developed countries and divides assets among three value-oriented subadvisors. The Causeway Capital team focuses on dividend and earnings yields. Lazard's team focuses on dividend and earnings yields. Templeton's management team seeks stocks that are cheap relative to their assets or earnings. American Beacon tightly restricts the fund's exposure to emerging market investments.

#### Innovest Assessment:

Due to its strict value mandate, the fund generates its best return premium over a passive benchmark during slightly rising, stable or declining markets. The fund has a tendency to underperform versus its benchmark when emerging markets are in favor due to its minimized emerging markets exposure.

#### PEER GROUP ANALYSIS - IM International Large Cap Value Equity (MF)



# 9.1 8.4 7.7 8.9 9.1 7.7 8.4 7.7 8.5 6.3 6.3 9.9 10.8 11.7 12.6 13.5

	Return	Standard Deviation
Am Beacon Intl	7.81	11.46
<ul> <li>MSCI EAFE Value Idx</li> </ul>	7.80	12.58
Median	7.13	11.57

Risk (Standard Deviation %)

#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Am Beacon Intl	0.30 (84)	-1.78 (19)	-7.00 (37)	24.56 (11)	21.50 (7)	-11.54 (24)	6.83 (36)
MSCI EAFE Val Idx	5.02 (3)	-5.68 (89)	-5.39 (15)	22.95 (16)	17.69 (43)	-12.17 (32)	3.25 (74)
IM International Large Cap Value Equity (MF) Median	1.68	-2.97	-9.08	21.36	17.23	-13.36	5.52

	3 Years Ending Sep-2017	3 Years Ending Sep-2016	3 Years Ending Sep-2015	3 Years Ending Sep-2014	3 Years Ending Sep-2013	3 Years Ending Sep-2012	3 Years Ending Sep-2011
Am Beacon Intl	3.74 (32)	-0.52 (23)	5.83 (7)	16.05 (5)	9.86 (8)	3.11 (9)	-1.66 (21)
MSCI EAFE Val Idx	3.50 (52)	-1.49 (42)	4.69 (31)	13.91 (27)	7.99 (29)	-0.11 (77)	-1.69 (22)
IM International Large Cap Value Equity (MF) Median	3.53	-1.63	4.09	12.48	7.39	1.28	-4.11



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

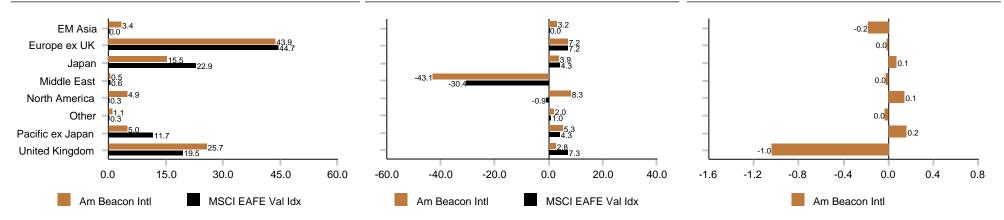
### Am Beacon Intl 09/30/17

PORTFOLIO CHARACTERIS	STICS		TOP 10 HOLDINGS			
Wtd. Avg. Mkt. Cap \$M Median Mkt. Cap \$M Price/Earnings ratio Price/Book ratio 5 Yr. EPS Growth Rate (%) Current Yield (%) Beta (5 Years, Monthly) % in Emerging Market Active Share Number of Stocks	Portfolio \$67,275 \$28,747 17.66 2.20 3.26 2.34 0.88 3.67 79.07	Benchmark \$70,666 \$10,711 14.31 1.69 3.49 4.10 1.00 N/A N/A	NOVARTIS AG British American Tobacco IHI Corp Royal Dutch Shell PLC PRUDENTIAL PLC SAP AG Volkswagen AG SAMSUNG ELECTRONICS CO LTD BP PLC Kddi Corp	Portfolio Weight (%) 2.31 2.22 2.06 1.97 1.85 1.76 1.71 1.69 1.68 1.58	Benchmark Weight (%) 0.00 0.00 0.00 1.59 0.00 0.00 0.00 0.00 1.74 0.66	Quarterly Return (%) N/A -6.68 2.95 16.78 N/A 5.07 9.39 N/A 13.20 1.04

#### **REGION ALLOCATION**

#### REGION PERFORMANCE

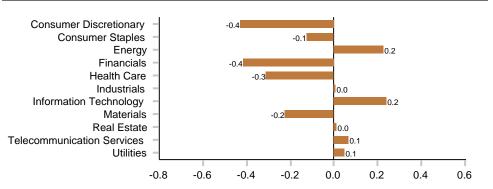
#### TOTAL REGION ATTRIBUTION



#### STYLE MAP (09/01/10 - 09/30/17)

#### TOTAL SECTOR ATTRIBUTION (07/01/17 - 09/30/17)







# Vanguard Tot Intl Stk 09/30/17

#### **FUND INFORMATION**

Fund Vanguard Group Family: Inc

Fund Inception: 04/29/1996
Portfolio Perre/Louie

Manager:

Total \$113,090 Million

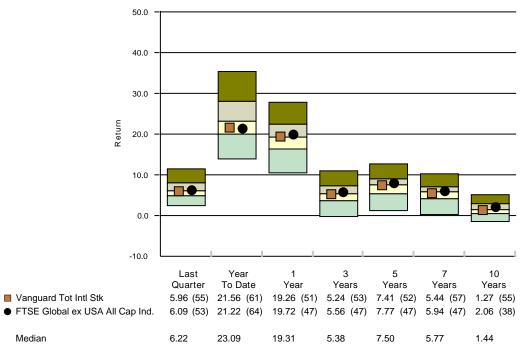
Assets : Turnover :

3%

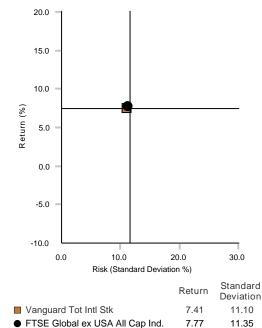
Investment Strategy:

This fund aims to track the MSCI ACWI ex USA IMI. Until August 2008, it was a fund of funds made up of Vanguard's three regional index funds: Vanguard European Stock Index, Vanguard Pacific Stock Index and Vanguard Emerging Markets Stock Index. However, it is gradually changing to a more typical format where it will invest directly in stocks. It does not hedge its currency exposure.

#### PEER GROUP ANALYSIS - IM International Equity (MF)



# RISK VS. RETURN (5 YEARS\*)



\_\_ Median

#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Vanguard Tot Intl Stk	4.65 (33)	-4.37 (56)	-4.24 (47)	15.04 (57)	18.14 (55)	-14.56 (48)	11.12 (61)
FTSE Global ex USA All Cap Index	5.04 (32)	-4.03 (55)	-3.12 (37)	15.90 (54)	17.92 (57)	-14.03 (43)	13.23 (49)
IM International Equity (MF) Median	1.77	-2.76	-4.47	17.44	18.59	-14.87	12.88

#### **ROLLING 3 YEAR RETURN AND PERCENTILE RANKINGS**

	3	3	3	3	3	3	3
	Years	Years	Years	Years	Years	Years	Years
	Ending	Ending	Ending	Ending	Ending	Ending	Ending
	Sep-2017	Sep-2016	Sep-2015	Sep-2014	Sep-2013	Sep-2012	Sep-2011
Vanguard Tot Intl Stk	5.24 (53)	0.79 (49)	3.05 (61)	12.28 (54)	5.86 (61)	2.75 (58)	-0.55 (54)
FTSE Global ex USA All Cap Index	5.56 (47)	1.20 (43)	3.28 (59)	12.45 (51)	6.48 (55)	3.97 (43)	1.84 (37)
IM International Equity (MF) Median	5.38	0.71	4.06	12.54	6.90	3.26	-0.12



7.50

11.67

<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

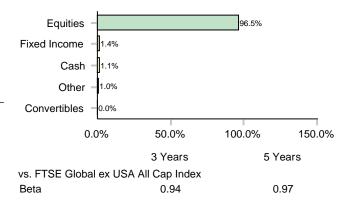
# Vanguard Tot Intl Stk 09/30/17

# PORTFOLIO CHARACTERISTICS Total Securities 6,112 Avg. Market Cap \$51,993 Million P/E 23.42 P/B 3.15 Div. Yield 2.87%

#### **TOP 5 COUNTRIES**

Japan	16.79 %
United Kingdom	10.76 %
Canada	6.57 %
France	6.19 %
Germany	6.15 %

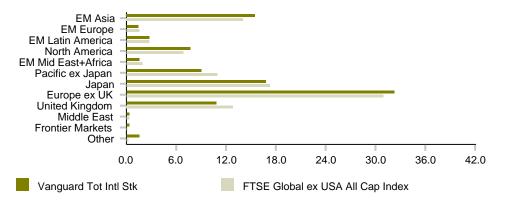
#### **ASSET ALLOCATION**



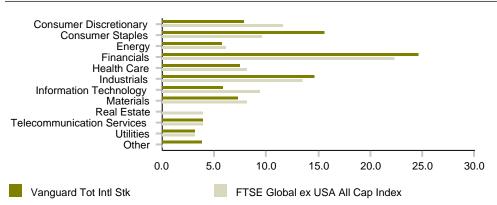
#### **TOP 10 HOLDINGS**

Vanguard Market Liquidity Fund	2.45 %
Nestle SA ORD	1.18 %
Samsung Electronics Co Ltd ORD	0.86 %
Novartis AG ORD	0.85 %
Tencent Holdings Ltd ORD	0.83 %
HSBC Holdings PLC ORD	0.81 %
Roche Holding AG Par	0.79 %
Taiwan Semiconductor Manufacturing	0.68 %
Toyota Motor Corp ORD	0.60 %
British American Tobacco PLC ORD	0.55 %

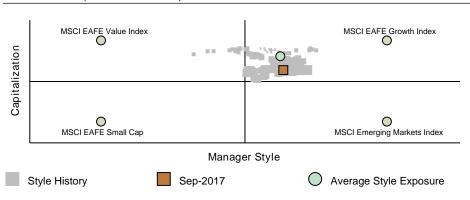
#### **REGION ALLOCATION**



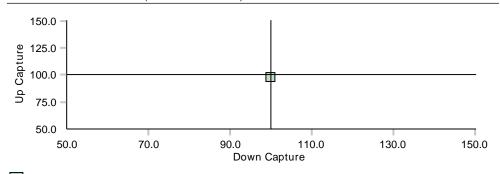
#### SECTOR ALLOCATION



#### STYLE MAP (01/01/03 - 09/30/17)



#### UP/DOWN CAPTURE (10/01/12 - 09/30/17)



Vanguard Tot Intl Stk



#### Amer Funds EuPc 09/30/17

#### **FUND INFORMATION**

Fund American Funds Family:

Fund Inception: 05/01/2009
Portfolio Team Managed

Manager:

Total \$61,729 Million

Assets:

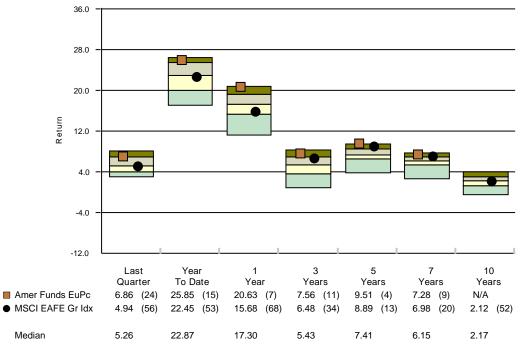
Turnover: 36% Investment Strategy:

This fund's managers are focused on long term capital growth. They primarily invest in common stocks of European and Pacific Basin issuers that have prospects of above average capital appreciation. The managers may use cash to moderate volatility, typically holding 5-10% of fund assets in cash. The Fund usually has a stake in emerging-markets companies and will sometimes hold preferred stock and convertible debt.

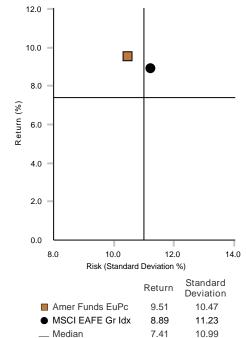
#### Innovest's Assessment:

The fund's propensity to focus intensely on bottom-up, fundamental factors can lead to periods of underperformance when the market is less concerned about company fundamentals and more driven by thematic and macroeconomic factors. Additionally, the fund is likely to lag when highly cyclical stocks and lower quality companies significantly outperform the overall market. Finally, the fund's immense asset base is likely to present some challenges in the fund's ability to build meaningful positions in smaller companies and to opportunistically trade in less liquid markets.

#### PEER GROUP ANALYSIS - IM International Large Cap Growth Equity (MF)



#### RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Amer Funds EuPc	1.01 (22)	-0.48 (51)	-2.29 (16)	20.58 (20)	19.64 (36)	-13.31 (47)	9.76 (55)
MSCI EAFE Gr Idx Net	-3.04 (79)	4.09 (9)	-4.43 (44)	22.55 (9)	16.86 (66)	-12.11 (36)	12.25 (40)
IM International Large Cap Growth Equity (MF) Median	-0.26	-0.48	-4.69	19.10	18.96	-13.42	10.89

	3	3	3	3	3	3	3
	Years	Years	Years	Years	Years	Years	Years
	Ending	Ending	Ending	Ending	Ending	Ending	Ending
	Sep-2017	Sep-2016	Sep-2015	Sep-2014	Sep-2013	Sep-2012	Sep-2011
Amer Funds EuPc	7.56 (11)	3.34 (8)	6.35 (10)	14.44 (16)	7.09 (59)	3.70 (53)	N/A
MSCI EAFE Gr ldx Net	6.48 (34)	2.39 (25)	6.53 (7)	13.33 (48)	8.88 (19)	4.32 (43)	-0.63 (48)
IM International Large Cap Growth Equity (MF) Median	5.43	1.24	5.03	13.22	7.51	3.86	-0.79



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

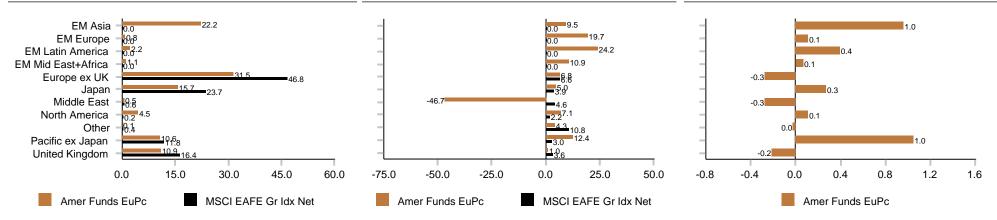
# Amer Funds EuPc 09/30/17

PORTFOLIO CHARACTERISTICS			TOP 10 HOLDINGS					
Wtd. Avg. Mkt. Cap \$M Median Mkt. Cap \$M Price/Earnings ratio Price/Book ratio 5 Yr. EPS Growth Rate (%) Current Yield (%) Beta (5 Years, Monthly) % in Emerging Market Active Share Number of Stocks	Portfolio \$87,260 \$23,442 20.22 3.15 10.62 1.41 0.88 29.85 78.75 249	Benchmark \$52,989 \$10,845 21.41 2.97 9.57 2.19 1.00 N/A N/A 562	SAMSUNG ELECTRONICS CO LTD Alibaba Group Holding Ltd British American Tobacco AIA Group Ltd Taiwan Semiconductor H D F C Bank Ltd Tencent Holdings LTD Softbank Group Corp European Aeronautic Nintendo Co Ltd	Portfolio Weight (%) 3.20 3.07 2.63 2.52 2.34 2.14 2.14 2.10 2.09 1.96	Benchmark Weight (%) 0.00 0.00 2.01 1.24 0.00 0.00 0.00 0.07 0.38	Quarterly Return (%) N/A 22.58 -6.68 1.34 4.02 8.12 20.34 -0.10 15.77 10.08		

#### **REGION ALLOCATION**

#### REGION PERFORMANCE

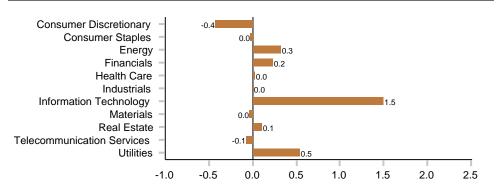
#### **TOTAL REGION ATTRIBUTION**



#### STYLE MAP (06/01/09 - 09/30/17)

#### TOTAL SECTOR ATTRIBUTION (07/01/17 - 09/30/17)







#### Met West:Total Return 09/30/17

#### **FUND INFORMATION**

Fund Metropolitan West Family: Asset Management

Fund Inception: 03/31/2000

Portfolio Team Managed Manager:

Total \$48,270 Million

Assets:

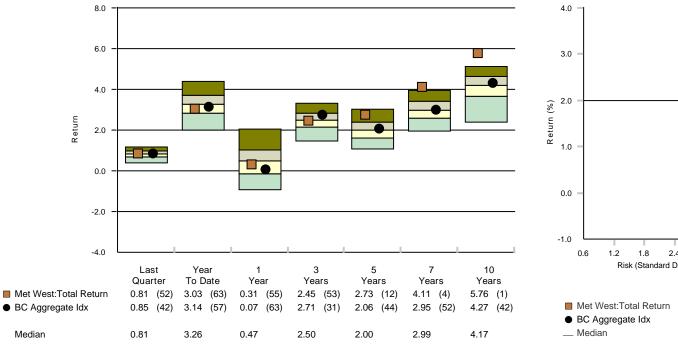
#### Investment Strategy:

The core tenant of MetWest's fixed income philosophy is a disciplined implementation of their value-based process. The "value" concept is that regardless of factor (duration, yield curve, sector selection, or issue) the strategic decisions, and buy and sell decisions should be determined by whether the factor or security is cheap or rich to fair value. Further, their investment approach is designed to take advantage of the fact that fixed income pricing is extremely volatile in the short run, but over the long term the pricing risks tend to mean revert. Hence, they tend to only overweight interest rates, vield curve, credit / spread risk when prices move out of line with the long term fundamentals.

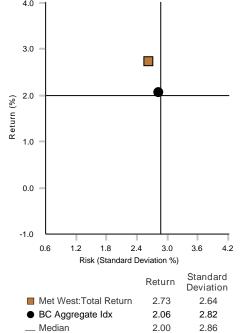
#### Innovest Assessment:

The fund is expected to outperform when its sector allocation and security selection in undervalued or under sponsored assets move toward management's view of intrinsic value. The strategy will underperform when market psychology and investor sentiment cause temporary dislocations leading to mispriced securities. These short-term disruptions should lead to long-term opportunities.

#### PEER GROUP ANALYSIS - IM U.S. Broad Market Core Fixed Income (MF)



#### RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Met West:Total Return	2.46 (70)	0.29 (35)	5.99 (26)	0.50 (2)	11.55 (1)	5.52 (81)	11.66 (2)
Bloomberg Barclays U.S. Aggregate Index	2.65 (61)	0.55 (19)	5.97 (27)	-2.02 (53)	4.21 (80)	7.84 (11)	6.54 (69)
IM U.S. Broad Market Core Fixed Income (MF) Median	2.85	0.00	5.55	-1.98	5.98	6.65	7.24

	3 Years Ending Sep-2017	3 Years Ending Sep-2016	3 Years Ending Sep-2015	3 Years Ending Sep-2014	3 Years Ending Sep-2013	3 Years Ending Sep-2012	3 Years Ending Sep-2011
Met West:Total Return	2.45 (53)	4.01 (35)	2.86 (3)	5.71 (1)	5.51 (1)	10.09 (1)	11.49 (3)
Bloomberg Barclays U.S. Aggregate Index	2.71 (31)	4.03 (33)	1.71 (33)	2.43 (72)	2.86 (59)	6.19 (70)	7.97 (62)
IM U.S. Broad Market Core Fixed Income (MF) Median	2.50	3.81	1.48	3.04	3.04	6.79	8.29



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# Met West:Total Return 09/30/17

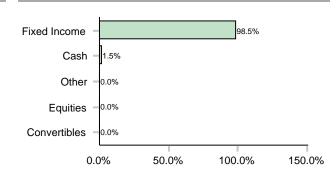
#### PORTFOLIO CHARACTERISTICS

# Avg. Coupon 3.17 % Nominal Maturity 7.16 Years Effective Maturity N/A Duration 5.62 Years SEC 30 Day Yield 3.85 Avg. Credit Quality AA

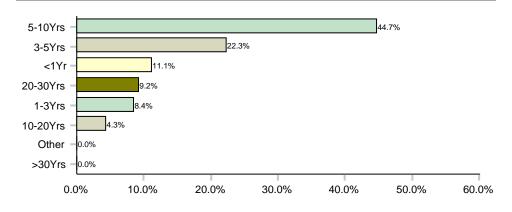
#### TOP SECTOR ALLOCATIONS

GNMA and Other Mtg Backed	36.58 %
Corporate Notes/Bonds	30.39 %
Government Agency Securities	25.51 %
Asset Backed Securities	5.98 %

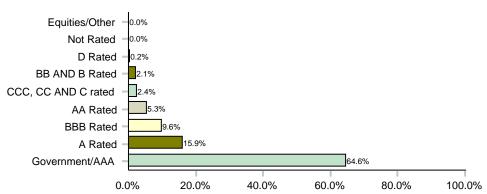
#### **ASSET ALLOCATION**



#### MATURITY DISTRIBUTION



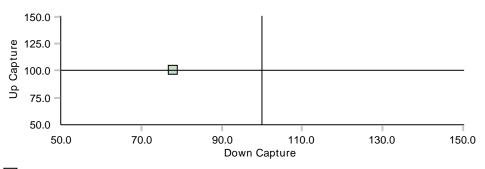
#### **QUALITY ALLOCATION**



#### STYLE MAP (04/01/00 - 09/30/17)



#### UP/DOWN CAPTURE (10/01/12 - 09/30/17)



Met West:Total Return



# Vanguard Tot Bd 09/30/17

#### **FUND INFORMATION**

Fund Vanguard Group

Family: Inc

Fund Inception: 11/12/2001 Portfolio Joshua C. Manager: Barrickman

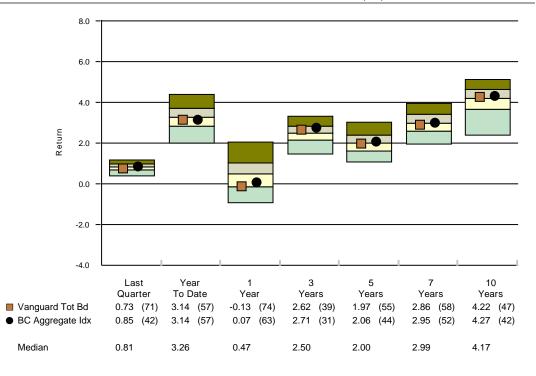
Total \$79,818 Million

Assets:

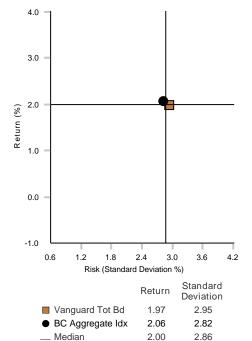
Turnover: 61% Investment Strategy:

The investment seeks to track the performance of a broad, market-weighted bond index. The fund invests by sampling the index. It invests at least 80% of assets in bonds held in the index. The fund maintains a dollar-weighted average maturity consistent with that of the index, ranging between 5 and 10 years.

#### PEER GROUP ANALYSIS - IM U.S. Broad Market Core Fixed Income (MF)



#### RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Vanguard Tot Bd	2.60 (63)	0.40 (29)	5.89 (31)	-2.14 (58)	4.15 (82)	7.69 (14)	6.54 (69)
Bloomberg Barclays U.S. Aggregate Index	2.65 (61)	0.55 (19)	5.97 (27)	-2.02 (53)	4.21 (80)	7.84 (11)	6.54 (69)
IM U.S. Broad Market Core Fixed Income (MF) Median	2.85	0.00	5.55	-1.98	5.98	6.65	7.24

	3	3	3	3	3	3	3
	Years						
	Ending						
	Sep-2017	Sep-2016	Sep-2015	Sep-2014	Sep-2013	Sep-2012	Sep-2011
Vanguard Tot Bd	2.62 (39)	3.98 (38)	1.58 (42)	2.32 (76)	2.76 (63)	6.11 (72)	7.95 (63)
Bloomberg Barclays U.S. Aggregate Index	2.71 (31)	4.03 (33)	1.71 (33)	2.43 (72)	2.86 (59)	6.19 (70)	7.97 (62)
IM U.S. Broad Market Core Fixed Income (MF) Median	2.50	3.81	1.48	3.04	3.04	6.79	8.29



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# Vanguard Tot Bd 09/30/17

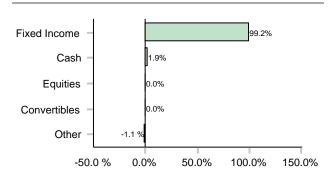
#### PORTFOLIO CHARACTERISTICS

# Avg. Coupon 3.07 % Nominal Maturity N/A Effective Maturity 8.20 Years Duration 5.95 Years SEC 30 Day Yield 2.65 Avg. Credit Quality AA

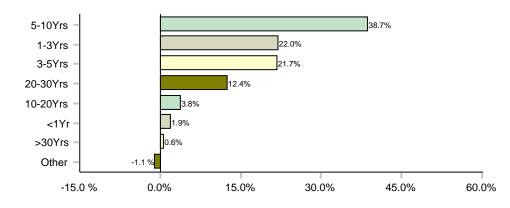
#### TOP SECTOR ALLOCATIONS

Treasury Notes/Bonds	39.77 %
Corporate Notes/Bonds	31.09 %
GNMA and Other Mtg Backed	23.21 %
Government Agency Securities	2.79 %
US\$ Denominated Fgn. Gvt.	1.69 %
Asset Backed Securities	0.63 %
Fgn. Currency Denominated Bonds	0.04 %

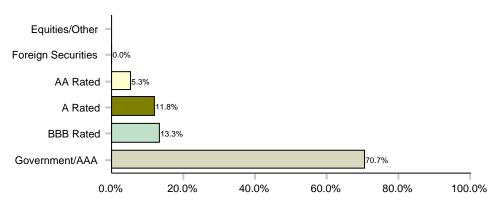
#### **ASSET ALLOCATION**



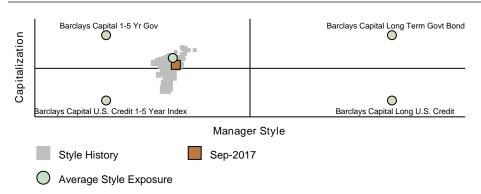
#### MATURITY DISTRIBUTION



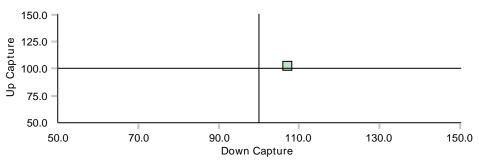
#### **QUALITY ALLOCATION**



#### STYLE MAP (12/01/01 - 09/30/17)



#### UP/DOWN CAPTURE (10/01/12 - 09/30/17)



Vanguard Tot Bd



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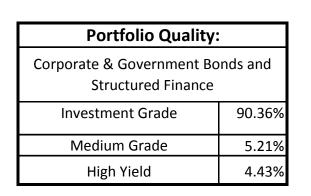
# **TIAA Traditional Account**

#### **Organization:**

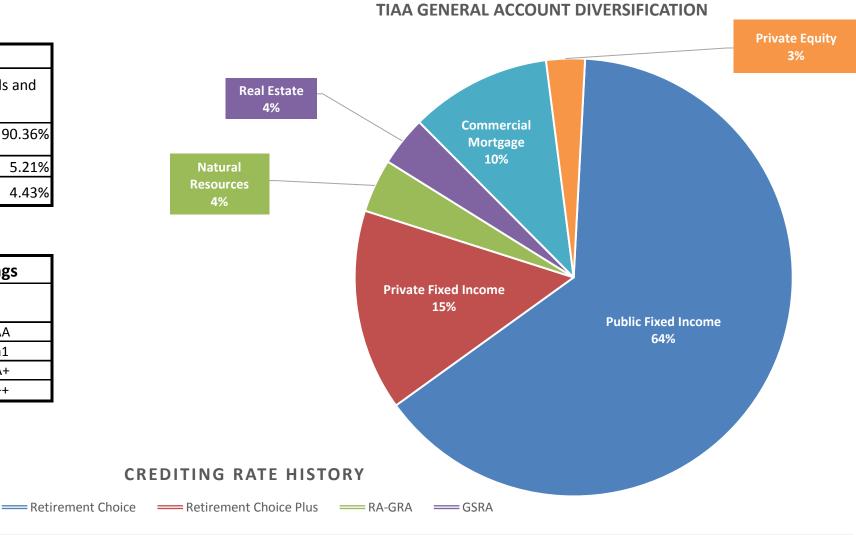
TIAA (Teachers Insurance and Annuity Association of America) began in 1918 as a stock U.S. life insurance company to help meet the financial needs of plan sponsors and participants in the academic, medical, governmental, research and cultural fields. In 1952, a companion organization, the College Retirement Equities Fund was created to allow participants to invest in equities in order to diversify their retirement funds. Today, TIAA-CREF is a financial services organization and leading private provider of retirement benefits nationwide.

#### **Product Description:**

The TIAA Traditional Annuity is a guaranteed annuity account providing participants crediting rates for accumulating and payout rates and guarrantees are supported by the TIAA General Account. The TIAA General Account invests in a broadly diversified portfolio to pursue superior long-term returns for the account while providing the stability and liquididty needed to support the guaranteed annuity products.



Financial Strength Ratings						
TIAA						
Fitch	AAA					
Moody's	Aa1					
Standard & Poor's	AA+					
A.M. Best	A++					





# TIAA-CREF:Soc Ch Eq 09/30/17

#### **FUND INFORMATION**

Fund TIAA-CREF

Family:

Fund Inception: 07/01/1999 Portfolio Campagna/Liao

Manager:

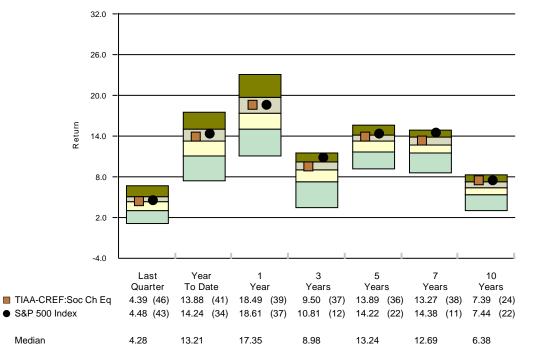
Total \$1,833 Million

Assets:

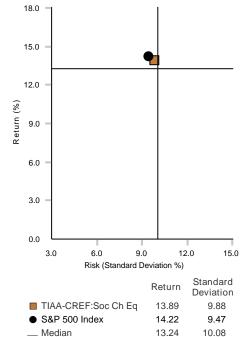
Turnover: 16%
Investment Style:

The fund seeks a favorable long-term total return that reflects the investment performance of the overall U.S. stock market while giving special consideration to certain social criteria. The evaluation process favors companies that are strong stewards of the environment; devoted to serving local communities; committed to higher labor standards; dedicated to producing high-quality and safe products; and those managed in an exemplary or ethical manner.

#### PEER GROUP ANALYSIS - IM U.S. Multi-Cap Core Equity (MF)



# RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
TIAA-CREF:Soc Ch Eq	13.51	-2.39	11.25	34.32	14.05	-0.05	15.91
S&P 500 Index	11.96	1.38	13.69	32.39	16.00	2.11	15.06

	3	3	3	3	3	3	3
	Years						
	Ending						
	Sep-2017	Sep-2016	Sep-2015	Sep-2014	Sep-2013	Sep-2012	Sep-2011
TIAA-CREF:Soc Ch Eq	9.50	9.04	11.95	22.38	15.90	11.73	1.45
S&P 500 Index	10.81	11.16	12.40	22.99	16.27	13.20	1.23



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

# TIAA-CREF:Soc Ch Eq 09/30/17

PORT	FOLIO CHARACTER	RISTICS		TOP 10 HC	LDINGS									
Median Price/E Price/B 5 Yr. El Current Beta (5 % in Int	vg. Mkt. Cap \$M  n Mkt. Cap \$M  carnings ratio  sook ratio PS Growth Rate (%) t Yield (%) 5 Years, Monthly) t'l Securities Share er of Stocks	Portfolio \$95,017 \$3,899 22.34 3.29 8.87 1.95 1.03 3.18 52.37 787	Benchmark \$175,944 \$21,055 22.42 3.29 9.96 1.98 1.00 3.70 N/A 505	Microsoft Cor Johnson & Jo Alphabet Inc Alphabet Inc Procter & Gal Verizon Com Coca-Cola Co Merck & Co In Intel Corp Mastercard In	whnson  mble Co (The  munications li  o (The)  nc.	•		Portfolio Weight (%) 2.55 1.84 1.36 1.34 1.22 1.16 1.14 1.13		We (% 2 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	hmark ight .66 .62 .34 .34 .08 .94 .80 .81		Quarte Retur (%) 8.6 -1.1 4.7 5.5 5.2 12.2 1.1 0.6 13.7	4 0 4 4 4 1 9 6 6 2
SECT	OR ALLOCATION		SECTOR P	PERFORMANC	E			TOTAL	SECTO	OR ATTE	RIBUTI	ON		
In	onsumer Discretionary Consumer Staples Energy Financials Health Care Industrials Information Technology Materials Real Estate Inmunication Services Utilities	12:2 	-1453	-0.9.5 -4.1.5. -3.79 -4.2.5. -3.4 -1.9. -3.9 -2.5.9				-		-0.2	-0.1 C -0.1	0	0.1	.1
	0.0	8.0 16.0 24.0	32.0 -4.0	0.0 4.0	8.0	12.0	16.0	-0.4	-0.3	-0.2	-0.1	0.0	0.1	0.2
	TIAA-CREF:Soc Ch Eq	S&P 500 Index	TIAA-C	CREF:Soc Ch Eq	S&P 50	0 Index				TIAA-0	CREF:So	c Ch Eq		
STYL	_E MAP (08/01/99 - 09/3	0/17)		<u>U</u>	IP/DOWN (	CAPTUE	RE (10/01/	12 - 09/30/	17)					
Capitalization 	Large Cap Value	Q	Large Cap Growtl	h	150.0 - e 125.0 - n 100.0 -					-				
Capital	O Small Cap Value	Manager Style	O Small Cap Growth	:	75.0 – 50.0 – 50.0		70.0	90	.0 Down Ca	110.0		130.0		150.0
s	tyle History	Sep-2017	Average Style Exp	osure	TIAA-CRE	F:Soc Ch	Eq		DOWII Ca	ipture				



# **Vanguard Target Date Funds**

#### **Organization:**

Founded in 1975, Vanguard's total AUM has eclipsed the \$3 trillion mark across more than 240 mutual funds. The foundation of Vanguard's investment methodology is based around low-cost indexed mutual funds. Vanguard made several changes to the management overseeing this target-date series in early 2016. Day-to-day activities are now overseen William Coleman and Walter Nejman.

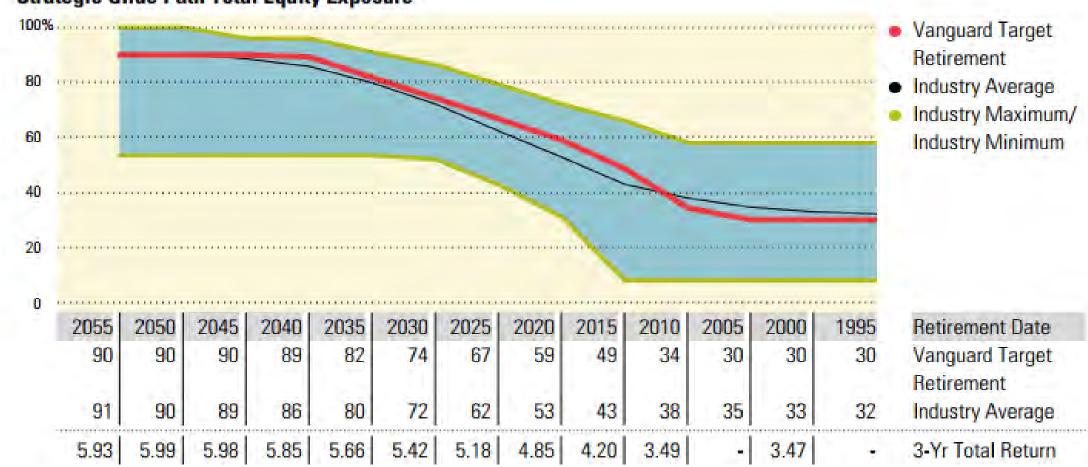
#### **Glide Path Rationale:**

With approximately 50% equity exposure in the 2015 Target Retirement Fund, Vanguard's target date suite is moderately aggressive in comparison to its peers (equity exposure ranges from 70% to 20% across the industry, with the average around 45%). The allocation in this target date suite is managed until seven years after retirement, at which point the glide path becomes static with an allocation of 30% equity and 70% fixed income.

#### **Composition of Funds:**

Each of the Vanguard Target Retirement Funds invests in a mix of the firm's broadest proprietary index funds. 100% of the underlying funds are passively managed, predominantly across four index funds (Total Stock Market Index, Total International Stock Index, Total Bond Market II Index, and Total International Bond Index), and the series introduces an allocation to the Vanguard Inflation Protected Securities Index five years prior to the target retirement date. The broad underlying index funds provide exposure to more than 9.500 equity securities and more than 12,700 fixed income securities.

# Strategic Glide Path Total Equity Exposure



<sup>\*</sup>Glidepath generated from Morningstar Target-Date Fund Series Report

	COMPOSITION								
Funds of Funds	Number of Funds/ Holdings	Open Architecture (%)	Sub- Advisors Used	% Active Managers					
Υ	5	0%	N	N/A					

GLIDE PATH						
Max % Equity	% Equity at Target-Date	Min % Equity	Age at Glide Path End			
90%	50%	30%	72			

ASSET CLASS SUMMARY					
U.S. Large Cap	•				
U.S. Mid Cap	•				
U.S. Small Cap	•				
International Equity	•				
<b>Emerging Markets Equity</b>	•				
U.S. Fixed Income	•				
U.S. TIPS	•				
High Yield Fixed Income					
International Fixed Income	•				
<b>Emerging Markets Debt</b>					
REITs					
Commodities					

	Vanguard	Median
Income	0.14%	0.94%
2015	0.14%	0.77%
2020	0.14%	0.87%
2025	0.15%	0.84%
2030	0.15%	0.90%
2035	0.15%	0.86%
2040	0.16%	0.91%
2045	0.16%	0.87%
2050	0.16%	0.91%
2055	0.16%	0.87%
2060	0.16%	0.87%

**EXPENSES** - INVESTOR SHARES



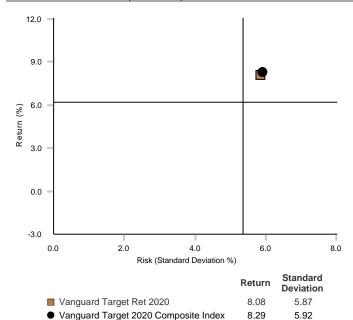


# Vanguard Target Ret 2020 09/30/17

#### PEER GROUP ANALYSIS - IM Mixed-Asset Target 2020 (MF)

#### 14.0 11.0 8.0 Return 5.0 Year 3 5 10 Last Quarter To Date Year Years Years Years Years ■ Vanguard Target Ret 2020 10.37 (21) 10.17 (30) 8.36 (7) 5.15 (4) 3.14 (29) 6.23 (7) 8.08 (8) Vanguard Target 2020 Composite Index 10.32 (27) 6.42 (5) 8.29 (5) 8.58 (4) 5.28 (2) 3.20 (23) 10.33 (22) Median 2.90 9.48 9.22 3.92 5.02 6.19 6.75

#### RISK VS. RETURN (5 YEARS\*)



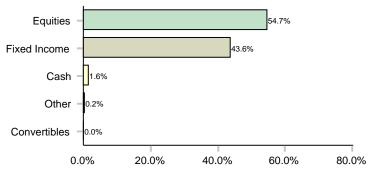
6.19

5.35

#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

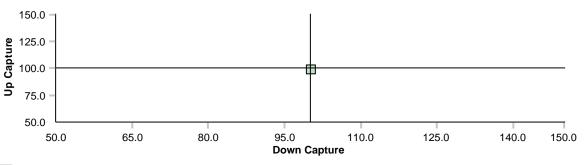
	2016	2015	2014	2013	2012	2011	2010
Vanguard Target Ret 2020	6.95 (30)	-0.68 (24)	7.12 (1)	15.85 (19)	12.35 (37)	0.60 (33)	13.12 (37)
Vanguard Target 2020 Composite Index	7.17 (24)	-0.40 (14)	7.37 (1)	16.21 (14)	12.47 (36)	0.99 (26)	13.27 (35)
IM Mixed-Asset Target 2020 (MF) Median	6.31	-1.44	4.72	11.84	11.53	-0.43	12.31

#### **ASSET ALLOCATION**



\*If less than 5 years, data is since inception of fund share class.

#### UP/DOWN CAPTURE (10/01/12 - 09/30/17)



Median

Vanguard Target Ret 2020

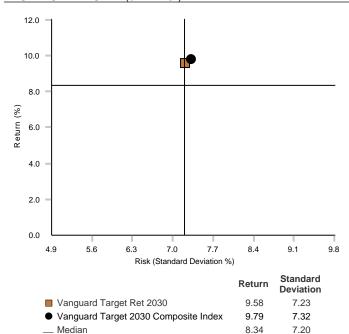


# Vanguard Target Ret 2030 09/30/17

#### PEER GROUP ANALYSIS - IM Mixed-Asset Target 2030 (MF)

#### 20.0 16.0 12.0 Return 8.0 0.0 3 5 10 Last Year Quarter To Date Year Years Years Years Years ■ Vanguard Target Ret 2030 12.77 (40) 13.25 (39) 3.88 (38) 7.19 (19) 9.58 (15) 9.63 (13) 5.27 (13) Vanguard Target 2030 Composite Index 7.37 (13) 9.85 (8) 3.91 (34) 12.69 (42) 13.44 (36) 9.79 (10) 5.41 (10) Median 3.70 12.43 12.92 8.35 6.30 8.34 4.21

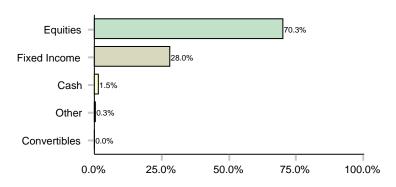
#### RISK VS. RETURN (5 YEARS\*)



#### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

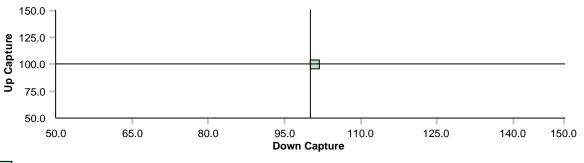
	2016	2015	2014	2013	2012	2011	2010
Vanguard Target Ret 2030	7.85 (34)	-1.03 (29)	7.17 (6)	20.49 (28)	14.24 (40)	-1.27 (23)	14.43 (34)
Vanguard Target 2030 Composite Index	8.11 (26)	-0.79 (23)	7.51 (3)	20.88 (25)	14.31 (39)	-0.89 (18)	14.58 (31)
IM Mixed-Asset Target 2030 (MF) Median	7.31	-1.61	5.18	17.87	13.71	-2.56	13.63

#### **ASSET ALLOCATION**



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

#### UP/DOWN CAPTURE (10/01/12 - 09/30/17)

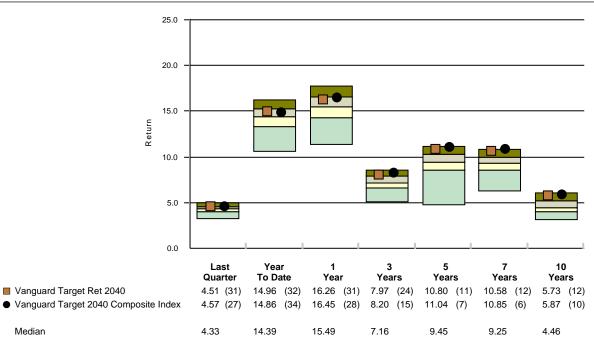


Vanguard Target Ret 2030

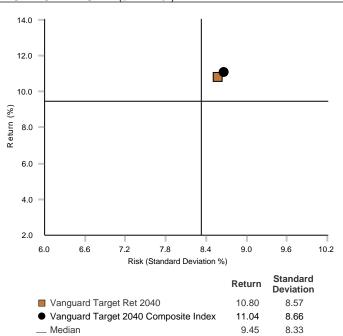


### Vanguard Target Ret 2040 09/30/17

### PEER GROUP ANALYSIS - IM Mixed-Asset Target 2040 (MF)



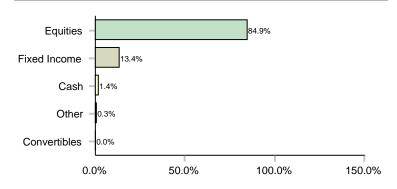
### RISK VS. RETURN (5 YEARS\*)



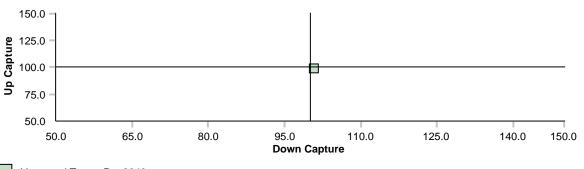
### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

	2016	2015	2014	2013	2012	2011	2010
Vanguard Target Ret 2040	8.73 (28)	-1.59 (44)	7.15 (12)	24.37 (17)	15.56 (33)	-2.55 (21)	15.17 (37)
Vanguard Target 2040 Composite Index	8.98 (22)	-1.25 (36)	7.61 (7)	24.79 (12)	15.58 (32)	-2.11 (16)	15.33 (30)
IM Mixed-Asset Target 2040 (MF) Median	7.98	-1.75	5.38	21.61	14.92	-3.93	14.63

### **ASSET ALLOCATION**



### UP/DOWN CAPTURE (10/01/12 - 09/30/17)



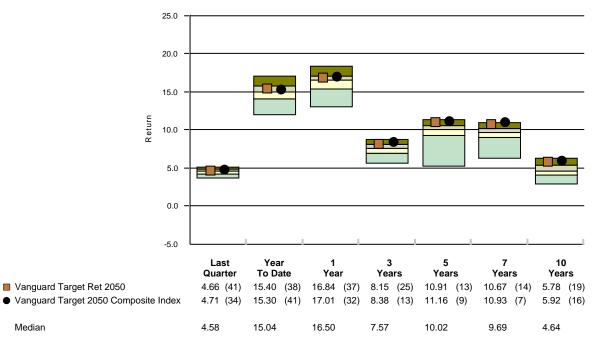
Vanguard Target Ret 2040



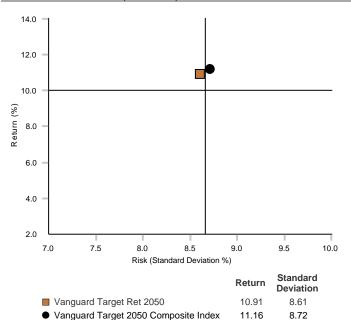
<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

### Vanguard Target Ret 2050 09/30/17

### PEER GROUP ANALYSIS - IM Mixed-Asset Target 2050 (MF)



### RISK VS. RETURN (5 YEARS\*)



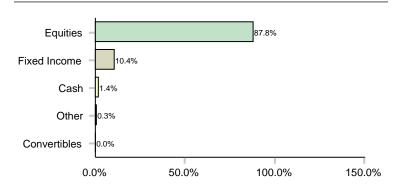
10.02

8.66

### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

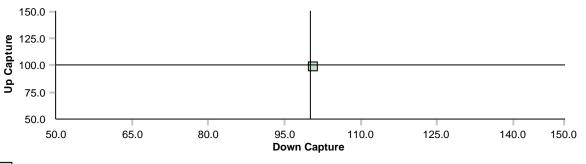
	2016	2015	2014	2013	2012	2011	2010
Vanguard Target Ret 2050	8.85 (32)	-1.58 (45)	7.18 (17)	24.34 (31)	15.58 (47)	-2.54 (14)	15.20 (37)
Vanguard Target 2050 Composite Index	9.13 (27)	-1.25 (37)	7.61 (11)	24.79 (26)	15.58 (48)	-2.11 (12)	15.33 (33)
IM Mixed-Asset Target 2050 (MF) Median	8.16	-1.76	5.61	23.08	15.47	-4.38	14.80

### **ASSET ALLOCATION**



### \*If less than 5 years, data is since inception of fund share class.

### UP/DOWN CAPTURE (10/01/12 - 09/30/17)



Median

Vanguard Target Ret 2050

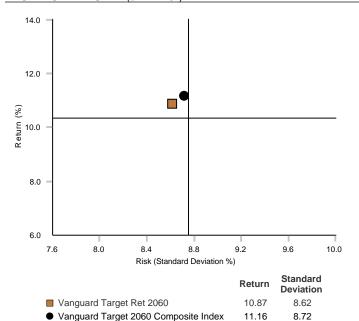


### Vanguard Target Ret 2060 09/30/17

### PEER GROUP ANALYSIS - IM Mixed-Asset Target 2055+ (MF)

### 25.0 20.0 15.0 Return 10.0 5.0 3 5 10 Last Year Quarter To Date Year Years Years Years Years ■ Vanguard Target Ret 2060 10.87 (25) 4.65 (51) 15.39 (46) 16.84 (51) 8.09 (39) N/A N/A Vanguard Target 2060 Composite Index 4.71 (42) 15.30 (50) 17.01 (43) 8.38 (22) 11.16 (17) N/A N/A Median 4.65 15.26 16.85 7.85 10.34 9.98 N/A

### RISK VS. RETURN (5 YEARS\*)



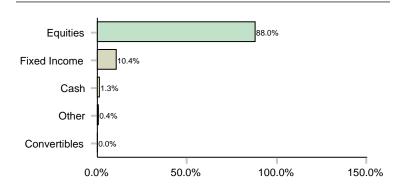
10.34

8.75

### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

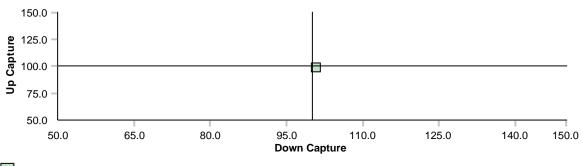
	2016	2015	2014	2013	2012	2011	2010
Vanguard Target Ret 2060	8.84 (28)	-1.68 (51)	7.16 (17)	24.35 (36)	N/A	N/A	N/A
Vanguard Target 2060 Composite Index	9.13 (23)	-1.25 (39)	7.61 (13)	24.79 (30)	15.58 (51)	N/A	N/A
IM Mixed-Asset Target 2055+ (MF) Median	8.11	-1.64	5.45	23.24	15.58	-4.66	14.78

### **ASSET ALLOCATION**



<sup>\*</sup>If less than 5 years, data is since inception of fund share class.

### UP/DOWN CAPTURE (10/01/12 - 09/30/17)



Median

Vanguard Target Ret 2060

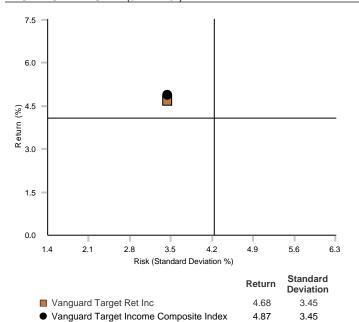


### Vanguard Target Ret Inc 09/30/17

### PEER GROUP ANALYSIS - IM Mixed-Asset Target Today (MF)

### 11.0 8.0 Return 5.0 3 5 7 10 Last Year Quarter To Date Year Years Years Years Years ■ Vanguard Target Ret Inc 5.26 (70) 1.96 (68) 6.31 (71) 4.28 (30) 4.68 (30) 5.52 (23) 4.87 (11) Vanguard Target Income Composite Index 4.47 (26) 4.87 (27) 5.67 (19) 2.04 (58) 6.40 (68) 5.44 (68) 4.93 (9) Median 2.12 6.04 3.88 4.78 4.07 6.94 4.09

### RISK VS. RETURN (5 YEARS\*)



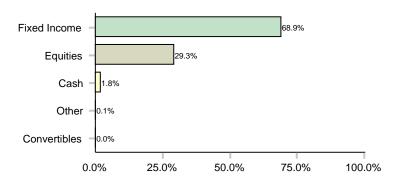
4.09

4.24

### CALENDAR YEAR RETURNS AND PERCENTILE RANKINGS

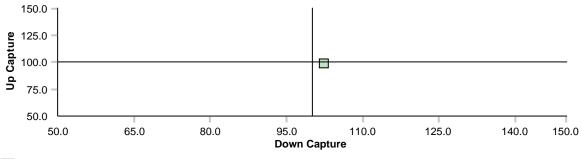
	2016	2015	2014	2013	2012	2011	2010
Vanguard Target Ret Inc	5.25 (46)	-0.17 (10)	5.54 (10)	5.87 (37)	8.23 (67)	5.25 (9)	9.39 (53)
Vanguard Target Income Composite Index	5.35 (39)	0.13 (3)	5.76 (8)	6.03 (36)	8.42 (63)	5.30 (9)	9.42 (52)
IM Mixed-Asset Target Today (MF) Median	5.16	-1.42	3.86	5.37	8.90	2.84	9.52

### **ASSET ALLOCATION**



### \*If less than 5 years, data is since inception of fund share class.

### UP/DOWN CAPTURE (10/01/12 - 09/30/17)



Median

Vanguard Target Ret Inc



### **Glossary**

Active Share measures the percentage of a product's holdings that differ from the product's benchmark index, based on portfolio weightings. An Active Share of 60% or higher is generally considered to be active management and less than 20% is generally considered to be passive management. Active Share allows investors to distinguish between products that do and do not engage in a large amount of stock selection. Products with high Active Share may experience significant deviation from the performance of benchmarks over time.

Alpha measures a portfolio's return in excess of the market return adjusted for risk. It is a measure of the manager's contribution to performance with reference to security selection. A positive alpha indicates that a portfolio was positively rewarded for the residual risk that was taken for that level of market exposure.

Beta measures the sensitivity of rates of portfolio return to movements in the market. A portfolio's beta measures the expected change in return per 1% change in the return on the market. If the beta of a portfolio is 1.5, a 1 percent increase in the return of the market will result, on average, in a 1.5 percent increase in the return on the portfolio. The converse would also be true.

Dividend Yield - The total amount of dividends paid out for a stock over the preceding twelve months divided by the closing price of a share of the common stock.

**Down Capture Ratio** - The Down Capture Ratio is a measure of the Investment's compound return when the Benchmark was down divided by the Benchmark's compound return when the Benchmark was down. The smaller the value, the better.

Duration - A time measure of a bond's interest-rate sensitivity, based on the weighted average of the time periods over which a bond's cash flows accrue to the bondholder.

Forecasted Long-Term Earnings Growth - This growth rate is a measure of a company's expected long-term success in generating future year-over-year earnings growth. This growth rate is a market value weighted average of the consensus (mean) analysts' long-term earnings growth rate forecast for each company in the portfolio. The definition of long-term varies by analyst but is limited to a 3-8 year range. This value is expressed as the expected average annual growth of earnings in percent.

Information Ratio measures the excess return per unit of residual "non market" risk in a portfolio. The ratio is equal to the Alpha divided by the Residual Risk.

Market Capitalization - The market value of a company's outstanding shares of common stock at a specific point in time, computed as the product of the number of outstanding shares times the stock's closing price per share.

**P/E ratio** relates the price of the stock to the per-share earnings of the company. A high P/E generally indicates that the market will pay more to obtain the company because it has confidence in the company's ability to increase its earnings. Conversely, a low P/E indicates that the market has less confidence that the company's earnings will increase, and therefore will not pay as much for its stock. In most cases a fund with a high average P/E ratio has paid a premium for stocks that have a high potential for increased earnings. If the fund's average P/E ratio is low, the manager may believe that the stocks have an overlooked or undervalued potential for appreciation.

**P/B ratio** of a company relates the per-share market price of the company's stock to its per-share book value, the historical accounting value of the company's tangible assets. A high P/B ratio indicates that the price of the stock exceeds the actual worth of the company's assets. A low P/B ratio would indicate that the stock is a bargain, priced below what the company's assets could be worth if liquidated.

P/CF ratio compares the total market value of the portfolio to the portfolio's share of the underlying stocks' earnings (or book value, cash flow, sales or dividends).

**R-Squared** indicates the extent to which the variability of the portfolio returns is explained by market action. It can also be thought of as measuring the diversification relative to the appropriate benchmark. An R-Squared value of .75 indicates that 75% of the fluctuation in a portfolio return is explained by market action. An R-Squared of 1.0 indicates that a portfolio's returns are entirely related to the market and it is not influenced by other factors. An R-Squared of zero indicates that no relationship exists between the portfolio's return and the market.

**Residual Risk** is the unsystematic risk of a fund, or the portion of the total risk unique to the manager and not related to the overall market. This reflects the "bets" which the manager places in that particular asset class. These bets reflect emphasis in particular sectors, maturities (for bonds), or other issue specific factors which the manager considers a good investment opportunity. Diversification of the portfolio will reduce the residual risk of that portfolio.

**Sharpe Ratio** is a measure of risk-adjusted return. It is calculated by subtracting the risk-free return (90 day T-Bills) from the portfolio return and dividing the resulting "excess return" by the portfolio's total risk level (standard deviation). The result is a measure of returned gained per unit of total risk taken.

**Standard Deviation** is a statistical measure of portfolio risk. It reflects the average deviation of observations from their sample mean. Stand and Deviation is used as an estimate of risk since it measures how wide the range of returns typically is. The wider the typical range of returns, the higher the standard deviation of returns, and the higher the portfolio risk. If returns are normally distributed (i.e. as a bell shaped curve distribution) then approximately 66% of 2/3 of the returns would occur within plus or minus one standard deviation of the sample mean.

Style Exposure Chart indicates a portfolio's exposure to a particular capitalization (large, medium or small) and style (value or growth). Based on Sharpe's return based style analysis, a style map will attempt to correlate a manager to a particular style of investing (i.e. Large Cap Growth).

Turnover Ratio - This is a measure of the fund's trading activity which is computed by taking the lesser of purchases or sales (excluding all securities with maturities of less than one year) and dividing by average monthly net assets.

**Up Capture Ratio** - The Up Capture Ratio is a measure of the Investment's compound return when the Benchmark was up divided by the Benchmark's compound return when the Benchmark was up. The greater the value, the better.

**Down Capture Ratio** - The Down Capture Ratio is a measure of the Investment's compound return when the Benchmark was down divided by the Benchmark's compound return when the Benchmark was down. The smaller the value, the better.



### **Fund Analysis Overview Key**

Each of the 6 criteria are evaluated on an individual basis and subjective based on Innovest's assessment. Below are examples of the many factors under each category we consider when making an assessment.

Organization

Pct. Owned by Employees Boutique vs. Institutional Recent Changes in Ownership Management Investment in Firm's Products Specialized vs. All in One

People

Size of Team Structure of Team Experience of Team Turnover of Key Members Growth of Team with Assets

Philosophy/Process

Style Consistency (Growth/Value, Market Cap)
Domestic/Int'l drift

**Asset Base** 

Current
Growth of AUM
Capacity Constraints
Soft Closed
Re-opening of Products

**Performance** 

Short Term vs. Benchmark and Style Group Long Term vs. Benchmark and Style Group Consistency – Relative/Absolute/Risk Adjusted

**Expenses** 

Cost vs. Competitors

Examples of things that would cause concern resulting in a YELLOW or RED box include but not limited to:

- 1) ORGANIZATION A change in ownership whereby it is unclear what the structure of the new organization will be, how will key personnel be compensated, and what type of employment contracts are in place to keep key decision makers.
- 2) PEOPLE A change in portfolio manager would be a cause for concern. We would assess the new talent taking over. Is the new portfolio manager a current member of the team or is it someone new from outside the group or organization.
- 3) PHILOSOPHY/PROCESS A change in portfolio characteristics would be a cause for concern. For example, if a growth style manager suddenly starts investing in value names during a value rally or if a small cap portfolio was migrating into midcap names due to asset growth.
- 4) ASSET BASE A small cap fund with more than \$3 billion in assets would be a cause for concern or a fund that continues to add assets as it becomes clear the portfolio management team can not handle the inflows. A sign of this would be a large increase in the cash position of the portfolio.
- 5) PERFORMANCE A product that fails to outperform either the index and/or the median manager on a consistent basis (at least 50% of the time) would be a cause for concern. Short term and long term performance is considered both on an absolute basis and relative basis in addition to risk-adjusted measures.
- 6) EXPENSES A fund or product that is substantially above the median expense ratio or management fee would be a cause for concern.



### **Disclaimer**

Past performance is no guarantee of future results. Investing involves the risk of loss.

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Note: Actual client mutual fund returns are reflected on the table of returns page. Fund pages subsequent to the table of returns reflect the representative mutual fund with the longest track record and may not be the actual share class held by the client.

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## What Can Squirrels Teach Us About Saving?

## They're smart and adaptable, and they plan

Darwin said that organisms don't need to be the smartest to survive, they need to be the most adaptable. Gray squirrels are a double threat: they are both smart and adaptable, equally at home in the woods, a backyard, or the city.

It turns out they also have a phenomenal ability to change their behavior to survive, including finding, storing, and retrieving nuts. This puts them close to humans' ability to meet a long-dated future goal, such as saving money.

### Sizing up nuts... and investments

Much as we assess which investments have the potential to provide long-term growth or preserve capital, squirrels use their sharp peripheral vision to size up nuts to see which ones are good to eat. Nuts that sprout use up valuable nutrients. A savvy squirrel will use its sharp teeth to cut off a nut's sprouting mechanism, thereby preserving its food value for winter.

When evaluating an investment for the future, such as a mutual fund, you want to be sure that the strategy it follows has the potential to deliver the results you expect over many years, often decades. In a way, you're sizing up your own nuts!

Looking at the fund's past performance is an oftenuseful way to evaluate returns, but it shouldn't be the sole factor. (Remember, past performance does not predict future returns.) In addition, look at the consistency of the fund's returns over time. How did it do against its benchmark in a down market? A fund that consistently underperforms in a down market is like a sprouting nut. Consider avoiding it, or replacing it with another option.

### Don't hide them all in one spot

According to researchers, fox squirrels move thousands



of nuts among five or more locations to discourage pilfering by rival squirrels.<sup>2</sup>

By avoiding losses, squirrels reduce risk. You do the same thing when diversifying a portfolio. Rather than putting all your "fund nuts" in one basket, you may be able to lessen the risk of experiencing a large loss by spreading your investments across multiple funds. There's less likelihood of all investments going down in value at the same time.<sup>3</sup>

Investors diversify by including stocks, bonds, and cash in their portfolios. Stocks, which represent shares of ownership in a company, usually perform differently from bonds or cash. Over long periods, stocks generally have provided the greatest returns, but with the most risk. Corporate bonds, which are essentially loans to a company, offer somewhat less return potential, but with less risk than stocks. Cash or "cash equivalents" typically are the least risky asset class, but also offer the least return.

Having the right balance of asset classes may help you save more for the future in a smart way — just like our crafty friends, the squirrels.

Natalie Angier, "Nut? What Nut? The Squirrel Outwits to Survive," New York Times, July 5, 2010. http://www.nytimes.com/2010/07/06/science/06angi.html

<sup>&</sup>lt;sup>2</sup> "Fox squirrels show long-term investment savvy when hoarding nuts," Berkeley News, October 3, 2012. http://news.berkeley.edu/2012/10/03/squirrelnuts/

<sup>3</sup> Diversification does not guarantee a profit or protect from losses.

## Would You Rather Have \$1 Million or \$5,000 a Month to Retire?

# Choosing between these values is all about your perspective

the illusion of wealth and the illusion of poverty.1 more valuable than having an income of \$5,000 per This example illustrates what behavioral researchers call month. However, both values are roughly equivalent. Some people view having \$1 million in the bank as

skew your judgment. Many financial planners use a rule chump change, but not likely to fund a lavish lifestyle from a \$1 million nest egg is just \$40,000 the risk of that withdrawal rate depleting the account appealing. But consider how the illusion of wealth may It seems that most of us have been conditioned to as very remote. But a 4% annual withdrawal rate taken your retirement account. Historic research has shown of thumb not to withdraw more than 4% a year from \$1 million war chest at our fingertips may be very be attracted to large numbers, and in fact, having a

annuitized (that is, converting it to a contract that is roughly equivalent to a \$1 million nest egg that's the illusion of poverty, at least when comparing it to On the other hand, the option to take \$5,000 a month defined period).<sup>2</sup> matters. It turns out that a \$5,000 per month income the \$1 million lump sum. But here, again, perspective from an investment account may appear to suffer from provides a stream of fixed monthly payments for a



poverty play a subliminal role. comparisons. Sometimes, illusions of wealth and When we examine our assumptions about money, it helps to consider the filters we use to make

- "Would You Rather Have \$1 Million or \$5,000 Monthly in Retirement?" Wall Street Journal, March 27, 2017. https://www.wsj.com/articles/would-you-rather-have-
- 1-million-or-5-000-monthly-in-retirement-1490582208
- Annuities are long-term, tax-deferred vehicles designed for retirement. There are costs and limitations associated with this product and guarantees are based on the claims paying ability of

### Whom do I call for help?



### following: Contact TIAA-CREF for the

- Investment changes
- 800.842.2009 Change personal info

### The Plan's Investment Consultant

Innovest Portfolio Solutions

4643 S. Ulster St., Suite 1040

Denver, CO 80237

303.694.1900 | www.innovestinc.com

www.tiaa-cref.org

Expense Ratio (%)		Years to Age 85:	Years to Age 65:		Time Horizon:	-	Expected Return:	KISK Level:		Current Age:	Who typically uses this portfolio?
0.26		under 25	under 5	1			Low	LOW	-	over 60	s portfolio?
											Portfolio Allocation (%)
	TIAA Traditional	Vanguard Tot Bd;Adm (VBTLX)	■ Met West:Total Return;I (MWTIX)	American Funds EuPc;R6 (RERGX)	☐ Am Beacon:Intl Eq;Inst (AAIEX)	Vanguard Sm-Cp Idx;Adm (VSMAX)	Vanguard Md-Cp Idx;Adm (VIMAX)	Harbor:Cap Apprec;Inst (HACAX)	□ Vanguard 500 Index;Adm (VFIAX)	☐ Dodge & Cox Stock (DODGX)	
	19.0	19.0	19.0	6.5	6.5	4.5	4.5	7.0	7.0	7.0	

Past Performance (%)*						
	Last	Š T	_	ω	51	10
	Quarter	-	Year	Years	Years	Years
Littleton Public School Conservative	2.85	9.24	9.14	5.75	7.06	N/A
Understanding Your Professionally-Managed Portfolios	nally-Mar	าaged Po	ortfolios			

### Who typically uses this portfolio?

Current Age: The age (today) of an average investor with time horizon, risk level, and return expectations of the Conservative Portfolio.

Time Horizon: Indicates the number of years (time horizon) to the average retirement age of 65, when the investor will begin spending the money in their account, and the number of years to assumed life expectancy of age 85.

Risk Level: The amount of expected risk in the Conservative Portfolio. Risk is measured by the potential loss over a 12-month period that an investor might expect in the Conservative Portfolio, and is calculated via a statistical process consistent with 95% probability.

Low: -8% to -14%

Expected Return: The level of expected investment return from the Conservative Portfolio. The range of returns shown below indicates the potential gain that an investor might expect each year, on average, over a 5-year period. This is also referred to as the "mean" return, and is calculated using a statistical process to determine a range of probabilities.

Low: 4% to 6%

### Past Performance

information contained in the applicable fund prospectuses carefully before investing money. Investment performance results shown above represent past performance and are not indicative of future results. Please read the

### How is the portfolio diversified?

The pie chart and accompanying data shown for each portfolio illustrates the percentage allocated to each fund.

<sup>\*</sup>Innovest relies on 3rd party data for these returns.

<sup>\*\*</sup>Returns using TIAA Traditional Annuity - GRA contract

Expense Ratio (%)	Years to Age 85:	Years to Age 65:		Time Horizon:	Expected Return:	RISK Level:	] - -	Current Age:	Who typically uses this portfolio?
0.35	25 - 45	5 - 25			Moderate	Moderate	-	40 - 60	s portfolio?
									Portfolio Allocation (%)
	<ul><li>Vanguard Tot Bd;Adm (VBTLX)</li><li>TIAA Traditional</li></ul>	■ Met West:Total Return;I (MWTIX)	American Funds EuPc;R6 (RERGX)	Am Beacon:Intl Eq:Inst (AAIEX)	■ Vanguard Md-Cp Idx;Adm (VIMAX)  ■ Vanguard Sm-Cp Idx:Adm (VSMAX)	Harbor:Cap Apprec;Inst (HACAX)	Vanguard 500 Index;Adm (VFIAX)	□ Dodge & Cox Stock (DODGX)	
	7.0 7.0	7.0	12.0	12.0	8.O	13.0	13.0	13.0	

# Understanding Your Professionally-Managed Portfolios

### Who typically uses this portfolio?

Current Age: : The age (today) of an average investor with time horizon, risk level, and return expectation of the Moderate Portfolio.

Time Horizon: Indicates the number of years (time horizon) to the average retirement age of 65, when the investor will begin spending the money in their account, and the number of years to assumed life expectancy of age 85.

Risk Level: The amount of expected risk in the Moderate Portfolio. Risk is measured by the potential loss over a 12-month period that an investor might expect in the Moderate Portfolio, and is calculated via a statistical process consistent with 95% probability.

Moderate: -13% to -19%

Expected Return: The level of expected investment return from the Moderate Portfolio. The range of returns shown below indicates the potential gain that an investor might expect each year, on average, over a 5-year period. This is also referred to as the "mean" return, and is calculated using a statistical process to determine a range of probabilities.

Moderate: 5% to 7%

### Past Performance

information contained in the applicable fund prospectuses carefully before investing money. Investment performance results shown above represent past performance and are not indicative of future results. Please read the

### How is the portfolio diversified?

The pie chart and accompanying data shown for each portfolio illustrates the percentage allocated to each fund.

<sup>\*</sup>Innovest relies on 3rd party data for these returns.

<sup>\*\*</sup>Returns using TIAA Traditional Annuity - GRA contract

Expense Ratio (%)	Years to Age 85:	rears to Age 65:	V	Time Horizon:		Expected Return:	KISK Fevel:		Current Age:	Who typically uses this portfolio?
0.39	35 - 55	15 - 35	וֹ וֹ		Ü	Hiah	пgn	<u> </u>	30 - 50	s portfolio?
										Portfolio Allocation (%)
	<ul><li>Vanguard Tot Bd;Adm (VBTLX)</li><li>TIAA Traditional</li></ul>	■ Met West:Total Return;I (MWTIX)	American Funds EuPc;R6 (RERGX)	Am Beacon:Intl Eq;Inst (AAIEX)	Vanguard Sm-Cp Idx;Adm (VSMAX)	Vanguard Md-Cp Idx;Adm (VIMAX)	Harbor:Cap Apprec;Inst (HACAX)	☐ Vanguard 500 Index;Adm (VFIAX)	☐ Dodge & Cox Stock (DODGX)	
	1.5 2.0	1.5	14.5	14.5	9.5	9.5	16.0	15.0	16.0	

Past Performance (%)*						
	Last	Y D	1	3	5	10
	Quarter	-	Year	Years	Years	Years
Littleton Public School Aggressive	5.40	17.22	19.36	9.03	12.30	N/A
		) ) ) )	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			

# understanding Your Professionally-Managed Portfolios

### Who typically uses this portfolio?

Current Age: : The age (today) of an average investor with time horizon, risk level, and return expectation of the Aggressive Portfolio.

Time Horizon: Indicates the number of years (time horizon) to the average retirement age of 65, when the investor will begin spending the money in their account, and the number of years to assumed life expectancy of age 85.

Risk Level: The amount of expected risk in the Aggressive Portfolio. Risk is measured by the potential loss over a 12-month period that an investor might expect in the Aggressive Portfolio, and is calculated via a statistical process consistent with 95% probability.

High: -17% to -23%

Expected Return: The level of expected investment return from the Aggressive Portfolio. The range of returns shown below indicates the potential gain that an investor might expect each year, on average, over a 5-year period. This is also referred to as the "mean" return, and is calculated using a statistical process to determine a range of probabilities.

High: 6% to 8%

### Past Performance

information contained in the applicable fund prospectuses carefully before investing money. Investment performance results shown above represent past performance and are not indicative of future results. Please read the

### How is the portfolio diversified?

The pie chart and accompanying data shown for each portfolio illustrates the percentage allocated to each fund.

<sup>\*</sup>Innovest relies on 3rd party data for these returns.

\*\*Returns using TIAA Traditional Annuity - GRA contract