## $\star$ Segal Marco Advisors

### Nevada Public Employees'

# **ANALYSIS OF INVESTMENT PERFORMANCE**

### **Deferred Compensation Plan**

June 30, 2018

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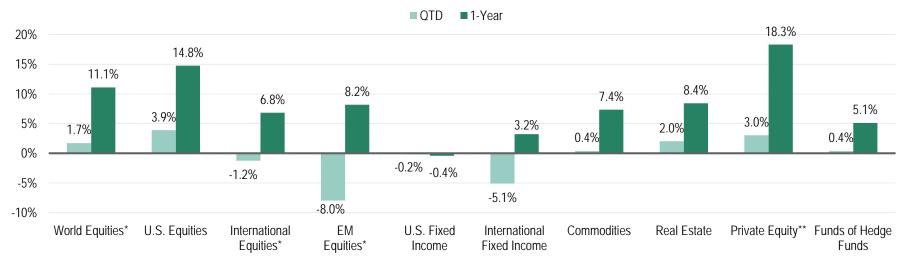
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# **Financial Market Conditions**



### **Summary of Investment Returns**



### **Quarterly Synopsis**

- World equity markets rose in Q2. Solid economic and earnings data outweighed global policy uncertainty among investors.
- U.S. equity gained, as more positive news about the economy and earnings led stocks to rise despite global trade concerns.
- International equity fell in the second quarter, hurt by a strong U.S. dollar and trade worries.
- Emerging market equity declined for the same reasons as international developed markets, but it was stung a bit worse.
- U.S. fixed income was slightly negative at quarter-end. Short-term interest rates rose in Q2, while longer-term Treasury yields fell.
- Non-U.S. fixed income was down in Q2 as political uncertainty in Italy grew.
- Hedge funds ended Q2 in positive territory. Event-driven strategies performed the best during the quarter and year-to-date.

\*\* Performance as of Q1 2018 because Q2 2018 performance data is not yet available. Sources: Investment Metrics. Thomson One. FactSet



<sup>\*</sup> Net of Dividends

Asset Class	Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
World Equity	MSCI World <sup>1</sup>	1.73	0.43	11.09	8.48	9.94	6.26
U.S. Equity	Russell 3000	3.89	3.22	14.78	11.58	13.29	10.23
Non-U.S. Equity	MSCI EAFE <sup>1</sup>	-1.24	-2.75	6.84	4.90	6.44	2.84
Emerging Market Equity	MSCI EM <sup>1</sup>	-7.96	-6.66	8.20	5.60	5.01	2.26
U.S. Fixed Income	Bloomberg Barclays U.S. Aggregate	-0.16	-1.62	-0.40	1.72	2.27	3.72
Non-U.S. Fixed Income	FTSE <sup>2</sup> Non-U.S. WGBI (Unhedged)	-5.11	-0.92	3.22	3.74	1.01	1.77
Commodities	Bloomberg Commodity Index	0.40	0.00	7.35	-4.54	-6.40	-9.04
Private Real Estate	NFI-ODCE <sup>3</sup>	2.03	4.27	8.42	9.36	11.03	5.29
Private Equity	Thomson Reuters Private Equity <sup>4</sup>	3.03	3.03	18.32	12.43	13.96	9.51
Hedge Funds	HFRI Fund of Funds Composite	0.39	0.66	5.11	1.92	3.45	1.40

<sup>&</sup>lt;sup>1</sup> Net of Dividends



 <sup>&</sup>lt;sup>2</sup> Formerly Citigroup Non-U.S. WGBI. Citigroup's fixed income indices were purchased by London Stock Exchange Group (LSEG) and will all be rebranded to FTSE by July 31, 2018.
 <sup>3</sup> TSE Russell is a unit of LSEG's Information Services Division and a wholly owned subsidiary of LSEG.
 <sup>3</sup> NCREIF Fund Index (NFI) – Open End Diversified Core Equity (ODCE).
 <sup>4</sup> Performance as of Q1 2018 because Q2 2018 performance data is not yet available.
 Sources: Investment Metrics, Thomson One, FactSet

### Q2 2018 In Review: U.S. Economy

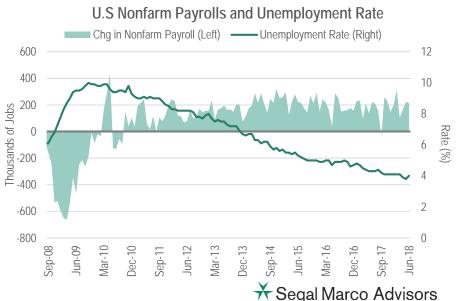
#### **GDP Growth**

- Real GDP grew at a rate of 4.1% in Q2 2018. Real GDP growth for Q1 was revised upward from 2.0% to 2.2%.
- GDP growth in Q2 came from nonresidential fixed investment, exports, personal consumption expenditures (PCE), exports, private inventory investment, state and local government spending and federal government spending.
- These contributions were offset by reductions in private inventory investment and residential fixed investment.



#### **Employment Picture**

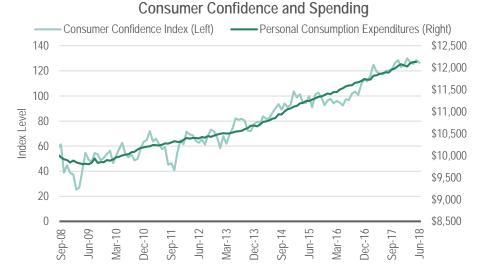
- The unemployment rate fell to 3.8% in May, but ticked back up to 4.0% at the end of Q2. A stronger labor market seemed to lure more people into the work force, but they did not all find jobs.
- Nonfarm payrolls rose by 632,000 over the quarter.
- Employment grew across almost all sectors, led by gains in health care and professional and business services, construction, mining, and manufacturing. Retail was negative. Government, trade, transportation, and leisure were flat.



### Q2 2018 In Review: U.S. Economy

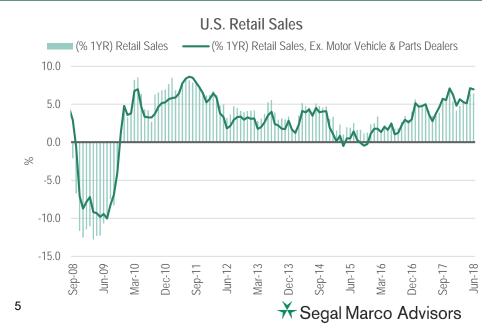
#### **Consumer Confidence and Spending**

- Sentiment declined a bit in Q2, as the Conference Board's Consumer Confidence Index fell from 127.7 at the end of March to 126.4 at the end of June.
- Personal consumption expenditures increased during the quarter.
- Consumer confidence fell in June as warning signs about the U.S. economy's continuing strength gave consumers pause.



#### **Retail Sales**

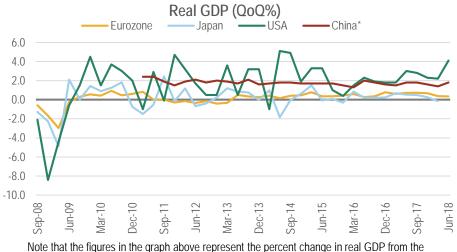
- Retail sales rose in Q2, with a still-solid U.S. economy and strong consumer spending amid a tight labor market.
- The savings rate rose to 3.2% at the end of May from 3.1% in Q1 2017. The savings rate among consumers in the U.S. had been dropping steadily in 2017, suggesting that more people were using credit cards and other debt to finance purchases.



### Q2 2018 In Review: Global Economy

#### **World GDP Growth**

- Eurozone GDP growth slowed in Q2 due to worries about global trade. The Eurozone's annual growth rate is 2.1%.
- China's GDP growth increased by 0.4% from Q1 to Q2, to 1.8%. The country's annual growth rate fell to 6.7%.
- Japan's GDP contracted 0.2% QoQ in Q1, the most recent data available. The Japanese economy's annual growth rate is 1.1%.

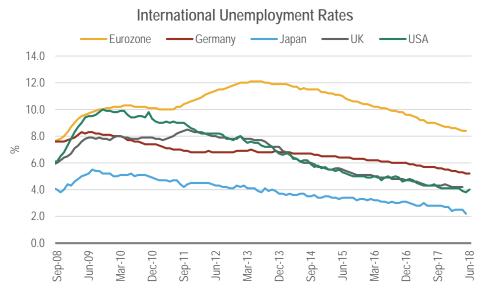


previous quarter, not the annual growth rate of these economies.

#### **Global Employment Picture**

- Eurozone unemployment fell to 8.4% in May 2018\*\*, the region's lowest-recorded rate since December 2008. The Eurozone's recent strength has led to this reduction in unemployment, although momentum has slowed a bit in that economy so far this year.
- Japan's unemployment rate dropped to 2.2% in May 2018\*\*. This marked the country's lowest level of unemployment since October 1992.

\*Quarter over quarter data calculations began in 2011. \*\*Most recent data available. Source this page: FactSet





### **Q2 2018 In Review: Global Equity Overview**

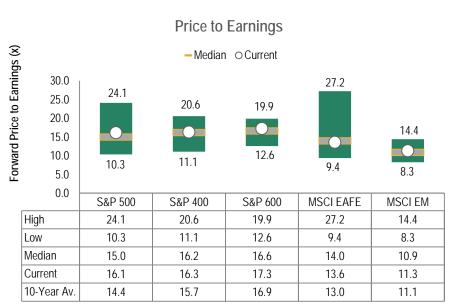
Equity Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
S&P 500	3.43	2.65	14.37	11.93	13.42	10.17
MSCI Europe, Australasia and Far East (EAFE)*	-1.24	-2.75	6.84	4.90	6.44	2.84
MSCI Emerging Markets (EM)*	-7.96	-6.66	8.20	5.60	5.01	2.26

All data in the table are percentages.

\* Net of dividends

#### **Global Equity Performance and Valuations**

- U.S. equities outperformed international and emerging equity markets in Q2. Positive earnings momentum and supportive economic data in the U.S. helped to lift domestic equities despite turmoil from global trade disputes.
- Over the medium to longer term, U.S., non-U.S. developed, and emerging market equity markets are all in positive territory.
- The current multiple for U.S. large cap is above median and its 10year average, indicating it may be slightly overvalued. U.S. small and mid caps appear to be more fairly valued relative to their median and long-term averages.
- The current MSCI EAFE P/E multiple is near its median and 10year average. As such, international equities appear close to fairly valued according to this measure.
- The MSCI EM P/E multiple at the end of Q2 was around its median and 10-year average; therefore, emerging market equities also appear to be relatively fairly valued by this measure.



Data range is from 12/31/99-6/30/18. P/E ratios are forward 12 months.



Source this page: FactSet

## Q2 2018 In Review: U.S. Equity

U.S. Equity Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
S&P 500	3.43	2.65	14.37	11.93	13.42	10.17
Russell 1000	3.57	2.85	14.54	11.64	13.37	10.20
Russell 1000 Growth	5.76	7.25	22.51	14.98	16.36	11.83
Russell 1000 Value	1.18	-1.69	6.77	8.26	10.34	8.49
Russell 2000	7.75	7.66	17.57	10.96	12.46	10.60
Russell 2000 Growth	7.23	9.70	21.86	10.60	13.65	11.24
Russell 2000 Value	8.30	5.44	13.10	11.22	11.18	9.88
Russell 3000	3.89	3.22	14.78	11.58	13.29	10.23

All data in the tables are percentages.

#### Performance

- U.S. equity markets gained in Q2 amid strong economic growth, low unemployment, and rising consumer confidence, all of which persisted despite continued global trade tensions and heightened geopolitical uncertainties.
- During Q2, small cap stocks outperformed large cap stocks. Small caps benefited from having less exposure to global trade.
- Energy was Q2's best performing sector. Consumer Discretionary and IT also experienced strong returns, boosted by positive earnings momentum.
- Industrials and Financials posted the worst performance of Q2. Industrials were impacted by the newly imposed tariffs on aluminum and steel, and Financials were hurt by the flattening yield curve. Consumer Staples and Telecommunications also declined during the quarter, indicating a "risk off" posture in the market.

S&P 500 Sector Returns	QTD	1-Year
Consumer Discretionary	8.07	23.05
Consumer Staples	-1.78	-4.75
Energy	13.24	19.93
Financials	-3.29	9.06
Healthcare	2.96	6.57
Industrials	-3.32	4.72
Information Technology	6.99	30.79
Materials	2.42	9.26
Telecommunications Services	-1.36	-0.20
Utilities	3.46	2.32



# Q2 2018 In Review: International Equity

MSCI International Equity Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
World ex. U.S.	-0.75	-2.77	7.04	4.87	6.23	2.63
EAFE	-1.24	-2.75	6.84	4.90	6.44	2.84
EAFE Local Currency	3.47	-0.96	6.12	5.18	8.93	4.98
Europe	-1.27	-3.23	5.28	4.22	6.21	2.36
Europe ex U.K.	-2.86	-4.07	3.51	4.72	6.80	2.19
U.K.	2.95	-1.05	10.02	3.09	4.94	2.66
Pacific ex Japan	1.77	-2.02	8.68	6.57	6.04	4.64
Japan	-2.84	-2.03	10.51	6.25	7.37	3.54

All data in the tables are percentages and net of dividends.

#### Performance

- International equity markets endured a volatile Q2. This was largely due to a backdrop of increased political uncertainty driven by the U.S.-North Korea summit in June, increased rhetoric around protectionist trade tariffs imposed by the U.S. on imports, and an inconclusive election in Italy. Despite declines this calendar year, the MSCI EAFE and World ex-U.S. indices have gained 6.8% and 7.0%, respectively, for the trailing 12-month period.
- In a reversal of the trend we saw in Q1 2018, many major currencies, including the euro, British pound, and Japanese yen, weakened against the U.S. dollar, which was a drag on USD-denominated returns.
- Despite rising volatility, the European Central Bank (ECB) felt confident enough in the Eurozone's GDP growth to forecast the suspension of its quantitative easing program in December 2018.
- Sector returns were broadly negative in Q1. Energy was the one bright spot, driven significantly higher by the trend of rising oil prices. Of the sectors that declined, Financials and Telecommunications suffered the most. Consumer Discretionary and Industrials were also down, in part due to the rising cost of oil weighing on profitability.

MSCI EAFE Sector Returns	QTD	1-Year
Consumer Discretionary	-3.54	8.53
Consumer Staples	-0.67	0.57
Energy	10.01	30.09
Financials	-7.82	-3.98
Healthcare	1.29	-0.54
Industrials	-3.06	5.22
Information Technology	-0.63	13.60
Materials	-0.30	13.54
Telecommunications Services	-6.50	-9.74
Utilities	-1.01	1.69



Sources this page: Investment Metrics, FactSet

## **Q2 2018 In Review: Emerging Market Equity**

MSCI EM Equity Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Emerging Markets	-7.96	-6.66	8.20	5.60	5.01	2.26
EM Local Currency	-3.51	-2.82	10.47	7.48	8.45	5.23
Asia	-5.85	-5.06	10.09	7.31	8.26	5.62
EMEA	-10.19	-11.03	5.61	0.76	-0.26	-2.05
Latin America	-17.75	-11.15	-0.16	2.00	-2.39	-3.68

All data in the tables are percentages and net of dividends.

#### Performance

- After a positive start in Q1 (+1.4%), emerging markets declined notably in Q2 amid escalating global trade tensions. Furthermore, the U.S. moved to extend steel and aluminum tariffs to the EU, Canada and Mexico, resulting in retaliatory measures by those respective countries.
- U.S. dollar strength was another headwind to emerging markets. The local currency index finished the quarter 4.5% ahead of the USDbased index.
- Aside from Colombia and Qatar, all 22 other emerging nations lagged in Q2. Brazil fell the most (-26.4%) as a truck driver strike paralyzed the economy and heightened political uncertainty. Turkey also posted a steep loss (-25.9%) due to a mixed response to incumbent Erdogan's win in the presidential re-election and concerns regarding the weakening lira.
- All sectors declined in Q2. Financials (-12.7%) and Industrials (-11.2%) led the underperformance.

MSCI EM Sector Returns	QTD	1-Year
Consumer Discretionary	-7.13	-0.23
Consumer Staples	-6.20	3.27
Energy	-4.71	24.85
Financials	-12.69	5.47
Healthcare	-5.04	22.42
Industrials	-11.21	-5.91
Information Technology	-5.09	15.19
Materials	-5.47	13.95
Telecommunications Services	-9.71	-7.45
Utilities	-8.11	2.20

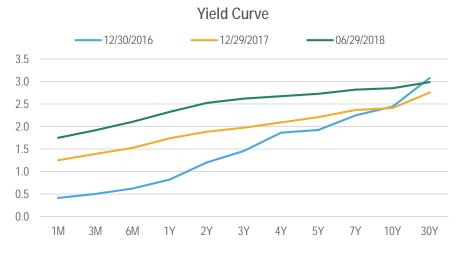


Sources this page: Investment Metrics, FactSet

### **Q2 2018 In Review: Fixed Income Overview**

#### **Yield Curve**

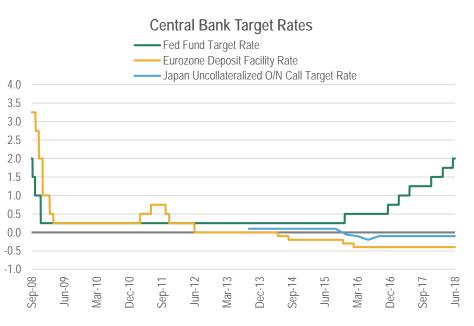
- Treasury yields rose across all tenors in Q2 as the Fed continued to tighten monetary policy.
- Global demand continued the yield curve's flattening trajectory, with long term Treasury yields failing to rise at the same pace as short term yields.
- The 30-year Treasury ended the quarter yielding 2.99%, only 2 basis points higher than where it was at the end of Q1, while the 2-year Treasury ended the quarter at 2.52%, which was 26 basis points higher than last quarter.



#### **Monetary Policies/Global Interest Rates**

- Central bank deposit rates remained negative in the Eurozone and Japan.
- The U.S. is the exception—the Federal Reserve (Fed) raised rates again in June, the second hike of 2018.
- The Fed continued to hint that four rate hikes in total are likely this year.

Interest Rates	Fed Funds Rate	EZ Deposit Facility Rate
Average	5.72% (1971-2018)	1.28% (1999-2018)
Max	20.0% (Mar. 1980)	3.75% (Oct. 2000)
Min	0.25% (Dec. 2008)	-0.40% (Mar. 2016)



### \* Segal Marco Advisors

# Q2 2018 In Review: U.S. Fixed Income

U.S. Fixed Income Indices*	QTD	YTD	1-Year	3-Year	5-Year	10-Year
U.S. Aggregate	-0.16	-1.62	-0.40	1.72	2.27	3.72
Government/Credit	-0.33	-1.90	-0.63	1.83	2.29	3.78
Government	0.10	-1.05	-0.63	1.02	1.48	2.91
Investment Grade Corporate	-0.98	-3.27	-0.83	3.07	3.51	5.39
Investment Grade CMBS	0.02	-1.17	0.00	2.00	2.51	4.90
U.S. Corporate High Yield	1.03	0.16	2.62	5.53	5.51	8.19
FTSE** 3-Month T-Bill	0.44	0.79	1.33	0.64	0.39	0.31
Hueler Stable Value	0.54	1.06	2.09	1.90	1.83	2.35

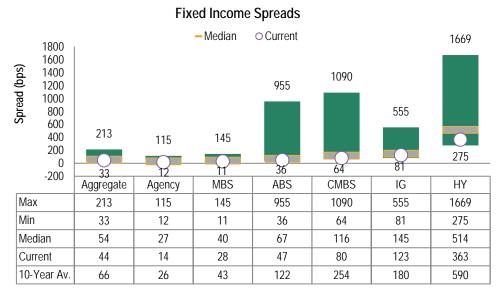
\* Bloomberg Barclays Indices, unless otherwise noted.

\*\* Formerly Citigroup. Citigroup's fixed income indices were purchased by London Stock Exchange Group (LSEG) and will all be rebranded to FTSE by July 31, 2018. FTSE Russell is a unit of LSEG's Information Services Division and a wholly owned subsidiary of LSEG.

All data in the table are percentages

#### **Performance and Spreads**

- The U.S. Aggregate Index's negative performance was driven by the Investment Grade Corporate sector, where spreads rose 14 basis points, and sector returns were -0.98% in Q2.
- High yield spreads tightened 8 bps by quarter end and the sector generated strong relative performance.
- Domestic spreads seem low by historical measures, but absent are some of the themes signaling the end of a credit cycle (e.g., aggressive central bank rate hikes, economic deterioration, and rapidly rising debt levels).



Data1r2nge is from 9/30/00-6/30/18



## **Q2 2018 In Review: International Fixed Income**

Global Fixed Income Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Bloomberg Barclays Global Aggregate	-2.78	-1.45	1.36	2.58	1.50	2.58
Bloomberg Barclays Global Aggregate (Hgd)	0.19	0.07	1.66	2.82	3.31	4.16
FTSE Non-U.S. WGBI*	-5.11	-0.92	3.22	3.74	1.01	1.77
FTSE Non-U.S. WGBI (Hgd)	0.23	1.73	3.57	3.85	4.30	4.41
JPM EMBI Global Diversified**	-3.54	-5.23	-1.60	4.63	5.15	6.75
JPM GBI-EM Global Diversified***	-10.42	-6.44	-2.33	1.96	-1.40	2.58

All data in the table are percentages.

\* Formerly Citigroup. The FTSE Non-U.S. World Government Bond Index (WGBI) measures the performance of fixed-rate, local currency, investment grade sovereign bonds excluding the U.S.

\*\* The JP Morgan Emerging Market Bond Index (EMBI) Global Diversified index measures government bonds in hard currencies.

\*\*\* The JP Morgan Government Bond Index – Emerging Markets (GBI-EM) Global Diversified index measures government bonds in local currencies.

#### **Global Performance and Yields**

- Currency depreciation negatively impacted both developed and emerging market economies in Q2.
- In developed markets, the euro, British pound, and Japanese yen all depreciated relative to the U.S. dollar. In emerging markets, Latin America declined the most, with meaningful currency depreciation in countries like Brazil, Mexico and Argentina.
- Overall, sovereign yields rose but retreated by quarter end as trade tensions escalated and global risk appetite diminished.
- Just one day after the June Federal Open Market Committee policy rate hike announcement, the European Central Bank made clear its intention to begin tapering its quantitative easing program by the end of the year.



\* Segal Marco Advisors

# **Q2 2018 In Review: Absolute Return Strategies**

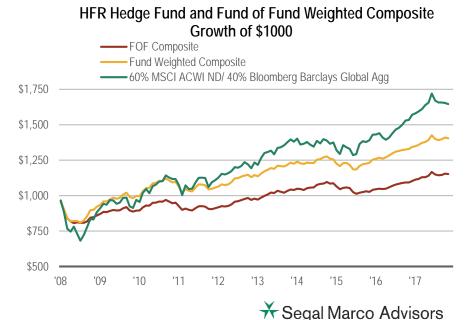
HFRI Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Fund of Funds Composite	0.39%	0.66%	5.11%	1.92%	3.45%	1.40%
Fund Weighted Composite	0.87%	0.82%	5.71%	3.65%	4.44%	3.45%
Event Driven	1.90%	2.01%	5.53%	4.55%	4.75%	4.64%
Equity Hedge	0.88%	1.19%	8.26%	4.86%	5.84%	3.70%
Macro	-0.12%	-1.72%	1.21%	0.19%	1.24%	1.13%
Emerging Markets	-4.70%	-3.74%	4.96%	4.32%	4.26%	2.02%
Relative Value	1.15%	1.56%	3.97%	3.76%	4.39%	5.12%

All data in the table are percentages.

#### **Hedge Fund Performance**

- Event Driven led all major hedge fund strategies during Q2. A solid gain in Q2 brought its total year to date return to 2.0%. Distressed was the leading sub-index strategy for the quarter.
- Equity Hedge posted a positive return in Q2, benefitting from strong sub-strategy performance in Healthcare and Technology, which have gained 10.3% and 7.9%, respectively, thus far in 2018.
- Emerging markets' performance in Q2 was negative. Notable losses in geographies such as Brazil, Russia and India came as a result of a strong USD and developing trade concerns.
- The Fund Weighted and Fund of Funds Composite indices gained during Q2, outperforming the 60/40 Balanced MSCI ACWI\*/Bloomberg Barclays Global Aggregate index, which lost -0.7% during the quarter.

\*Net of dividends Sources this page: FactSet, eVestment



#### Performance

- The total return for private equity funds at the end of Q1 2018\*, comprising performance across all regions and strategies, was 3.0% QTD and 18.3% over the 1-year period.
- Private equity's 5- and 20-year returns remained strong, with double-digit returns of 14.0% and 12.5%, respectively. The 10-year return lagged due to weaker performance resulting from the time of the Global Financial Crisis, but still gained 9.5%.
- The 2016 vintage year funds quickly came out of the J-curve in Q2 2017 and generated a 12.5% return by Q1 2018.

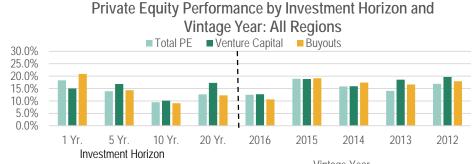
#### Fundraising

- U.S. private equity funds raised approximately \$156.8 billion across 571 funds year-to-date through June 15, 2018\*.
- In the U.S., fundraising activity has not slowed down year-todate, but globally, capital raised in Q2 2018 was the lowest amount registered on a quarterly basis since 2012.
- Dry powder\*\* increased 20.4% globally in 2017 and reached a record-high of \$1 trillion due to strong fundraising and high pricing. Notably, dry powder surged 58.9% in the emerging markets.

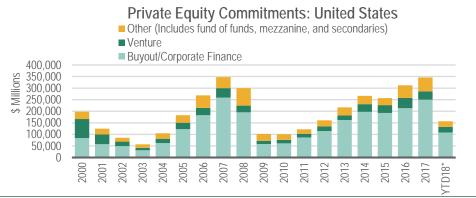
#### **Exit Activity**

- Exit activity continued to decelerate, falling from 838 exits in the first half (1H) of 2017 to 684 exits in 1H 2018. Aggregate deal value also declined and hit its lowest level since 2013.
- Q1 and Q2 2018 saw a similar number of venture capital-backed exits, but aggregate exit value was 255.4% higher in Q2, largely driven by the top ten deals.
- As the largest IPO of Q2, Spotify went public on the NYSE in a direct listing. The IPO has been a success largely due to Spotify's already well-known brand name.

\*The most recent data available. \*\*Dry powder is capital raised that hasn't yet been invested. Sources this page: Thomson Reuters, *Private Equity Analyst*, Preqin



"Vintage year" refers to the first year that capital was committed in a particular fund. Vintage-year performance is calculated as the median percentile returns of all funds reporting as pooled IRRs.



#### Private Equity Exits: All Regions Number of Deals IPO. M&A 500,000 3,000 2,500 400,000 Millions Number of Deals 2,000 300,000 1,500 200.000 1,000 100,000 500 0 2010 2011 2013 2013 2014 2015 2015 2015 2017 7TD18 2006 2002 2003 2004 2005 2007 2008 2009 2000 2001 🛪 Segal Marco Advisors

# Q2 2018 In Review: Real Estate

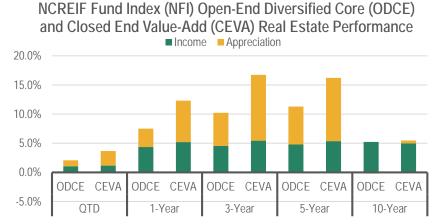
#### **Real Estate Performance**

- Comparing the most recent performance of core real estate, as measured by the NFI-ODCE index (Q2 2018), and value add real estate, as measured by the CEVA index (Q1 2018), the CEVA outperformed the ODCE by 160 bps. Most of the CEVA's outperformance came from the appreciation component of the return.
- Appreciation for the ODCE relative to the CEVA continued to tighten. Furthermore, relative to the appreciation spread's recent peak (5-yr. trailing -5.62%), the ODCE appreciation's contribution to return relative to CEVA has narrowed by 4.12%
- The CEVA Index continued to outperform the ODCE over the QTD, 1, 3, 5, and 10-year rolling periods, on a gross basis. However, over the same trailing periods, the CEVA has a much wider gross/net return spread relative to the ODCE.
- On an equal-weighted basis for Q2 2018, the CEVA gross/net returns are 2.04%/1.54% relative to the ODCE's 2.13%/1.89%.

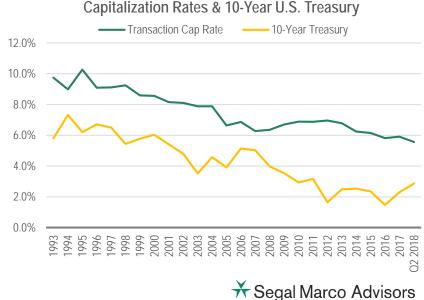
#### **Real Estate Capitalization Rates vs. Treasuries**

- For the most part, the prevailing low capitalization ("cap") rates\* result from historically wide cap rate spreads relative to financing, and this has been further augmented by the continued strong demand for real estate assets.
- Cap rates remain at historic lows despite continued rising interest rates. Further increases to rates may put upward pressure on cap rates; however, this impact might be mitigated by higher inflationary expectations in the near term.
- Developed EU markets saw continued cap rate compression that may support stronger valuations looking forward.
- In Hong Kong, Japan, and Australia, cap rates continued to tighten. Only Hong Kong experienced an uptick in pricing due to the compression as well as cash flow improvement.

\*A cap rate is the potential rate of return on a real estate investment. Assuming no change in net operating income, real estate valuations rise when cap rates fall. Comparing cap rates to the10-year U.S. Treasury provides investors with an estimated spread for expected returns from real estate (higher risk) vs. fixed rate bond (lower risk) investments. Sources this page: NCREIF, Bloomberg



The NFI-ODCE (Open-end Diversified Core Equity) is defined by NCREIF as a fund-level cap-weighted, gross of fee, time-weighted return index with an inception date of December 31, 1977. The NFI-CEVA Index, which is a quarter lagged in performance reporting, is defined by NCREIF as a capitalization-weighted, gross of fees, time-weighted return index. Funds included in the index must be closed-end with a value-add strategy operated for U.S. institutional investors and must comply with NCREIF's data collection and reporting standards.

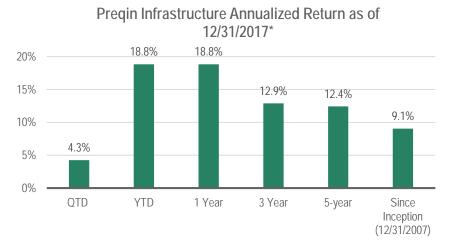


#### Infrastructure Performance

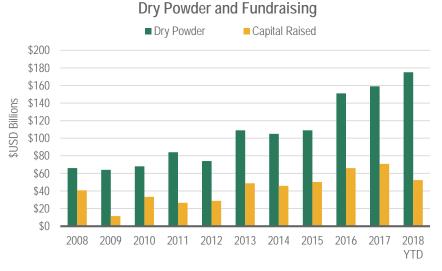
- Private infrastructure gained 4.3% in Q4 2017\*. The Q3 2017 return was revised upward from 2.7% to 9.8%, which contributed to strong annual performance for unlisted infrastructure in 2017.
- The 1-, 3-, and 5-year results exceeded the since-inception return, indicating the asset class has recovered nicely from the global financial crisis. An improving energy landscape led to outsized returns towards the end of 2017.
- With regard to public infrastructure, the FTSE Global Infrastructure 50/50 Index rose 2.97% in Q2 2018. All four global listed infrastructure sectors (utilities, transportation, energy and communications) posted gains following Q1 losses. Asia/Pacific and North American infrastructure stocks performed well, while Continental Europe lagged.

#### **Dry Powder and Fundraising**

- Infrastructure fundraising in Q2 2018 exceeded that of the last two quarters in terms of the number of funds (17) and aggregate capital raised (\$23.9 billion). In both Q4 2017 and Q1 2018, \$13.1 billion was raised by infrastructure strategies across 15 and 10 funds, respectively.
- Dry powder\*\* increased in Q2 amid strong fundraising and more funds coming to market. There are some large deals lined up for the second half of 2018 that could tap into the high amount of dry powder; however, there is a concern that the cost basis for acquisitions will be elevated by managers needing to deploy capital.



According to Preqin, the Preqin Infrastructure Index captures the average returns earned by investors in their infrastructure portfolios, based on the actual amount of money invested. The Preqin Infrastructure index is calculated on a quarterly basis using data from Preqin's Infrastructure Online services.



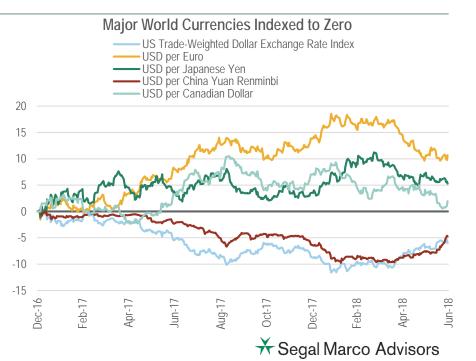


### **Q2 2018 In Review: Commodities and Currencies**

BCOM Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Bloomberg Commodity Index (BCOM)	0.40%	0.00%	7.35%	-4.54%	-6.40%	-9.04%
Energy	10.73%	12.68%	34.76%	-9.04%	-12.98%	-20.04%
Agriculture	-8.66%	-5.79%	-13.29%	-9.90%	-9.49%	-7.12%
Industrial Metals	0.98%	-5.31%	15.19%	6.21%	0.91%	-4.65%
Precious Metals	-4.45%	-4.95%	-0.78%	1.18%	-1.29%	1.51%
Livestock	5.47%	-5.11%	-9.37%	-4.53%	-2.75%	-5.51%

#### **Commodity and Currency Highlights**

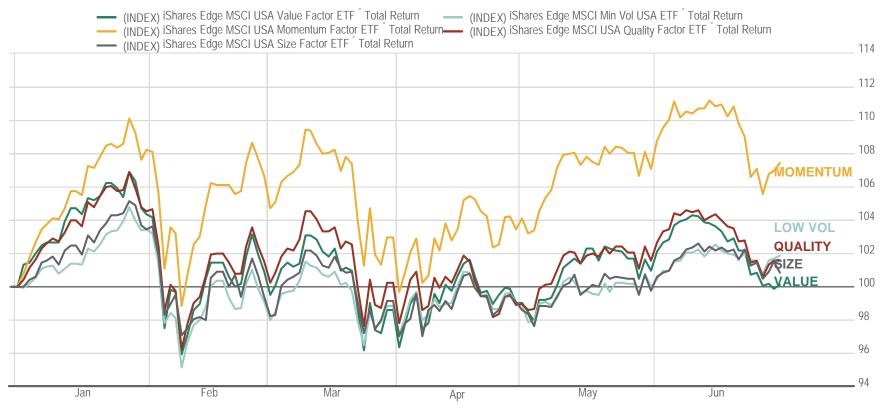
- The Bloomberg Commodity Index Total Return increased 0.4% during Q2 2018 with mixed performance across the underlying sectors.
- The Energy sector was the top performer. The prices of crude oil and petroleum products increased, as the global supply and demand balance of crude tightened from production declines in Venezuela, Libya and Nigeria.
- The Agriculture sector fell as a result of proposed trade tariffs between the U.S. and China. With China being a key export market for U.S. soybeans, demand decreased for this product.
- The USD strengthened in Q2 with solid U.S. economic expectations and another Fed rate hike.
- The euro weakened against the USD amid some lackluster Eurozone economic data and the European Central Bank saying it would put off rate hikes until at least 2019.



#### Value Continues to Lag Other Market Factors in 2018

- Momentum has handily outperformed other factors YTD through June 30.
- In times of economic expansion, momentum has historically outperformed.
- Value has lagged this year as growth stocks like the "FAANGs\*" have dominated large-cap returns.
- Other factors such as quality and low volatility have also lagged momentum, particularly in Q2.

#### Factor Performance YTD through June 2018

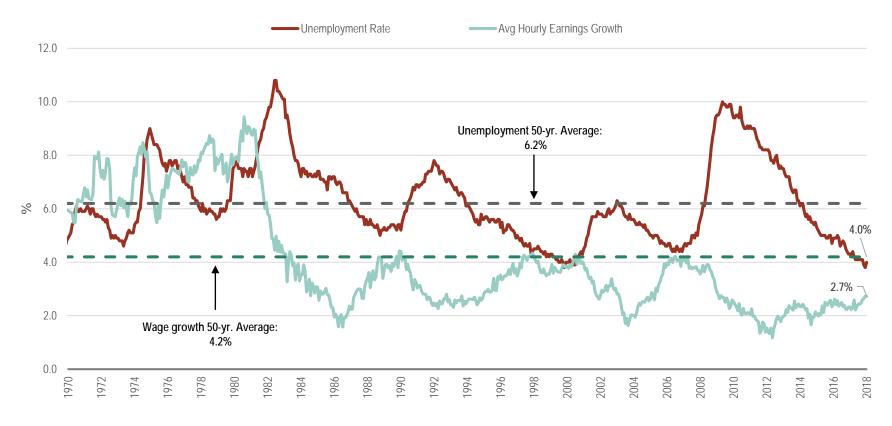


\*The FAANG stocks are Facebook, Amazon, Apple, Netflix and Google. Source this page: FactSet



#### Wage Growth Remains Subdued Despite Falling Unemployment

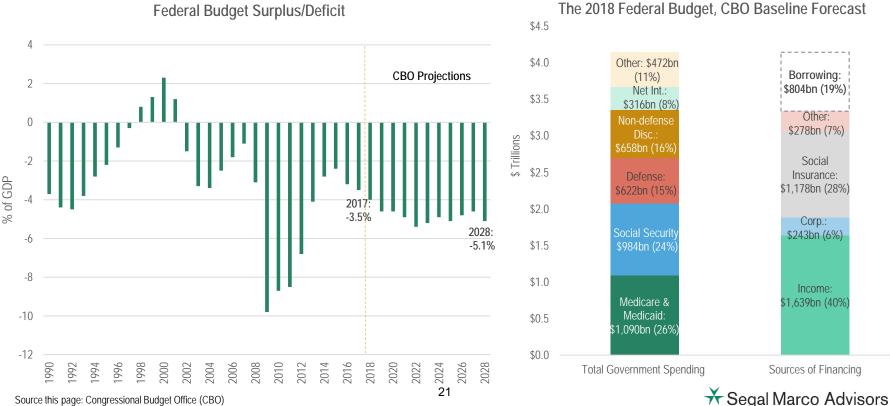
- Unemployment has fallen to historically low levels so far in 2018—it was as low as 3.9% before moving back up to 4.0% at end of Q2.
- Though unemployment has fallen, wage growth continues to lag expectations.
- Anemic productivity levels, lack of business competition and automation are possible reasons for wage growth's sluggishness.



\* Segal Marco Advisors

#### **Federal Budget Forecasts**

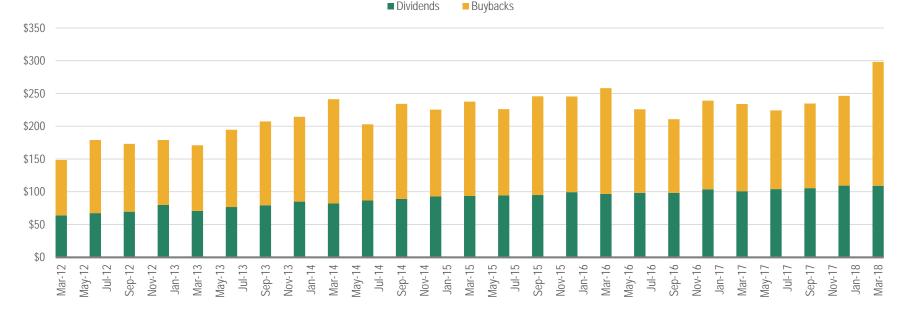
- The 2018 federal deficit is projected to be \$804 billion, up 21% from last year's deficit figure of \$665 billion.
- The Congressional Budget Office (CBO) projects that the deficit will top \$1 trillion by 2020 and stay above \$1 trillion for its 10-year forecasting window. The change reflects the rising costs of Social Security and Medicare as the Baby Boom ages, as well as the loss of revenue from the recent tax cuts.
- The CBO expects economic growth to be relatively strong in 2018 and 2019 as a result of the recent policy changes. However, the CBO also expects that the effect of the tax cuts will moderate after that. Should real GDP increase beyond the CBO's current forecast, it could reduce the estimated deficits shown below. There is a large degree of uncertainty surrounding many economic factors the CBO considered to determine these projections, and we will likely see additional revisions as time progresses.



Source this page: Congressional Budget Office (CBO)

#### S&P 500 Buybacks

- The chart below shows the amount of capital returned to investors by S&P 500 companies in the form of dividends and share buyback programs. The total amount of cash returned to investors in Q1 2018 amounted to \$300 billion (\$190 billion in buybacks and \$110 billion in dividends). This was an all-time high.
- Estimates for cash returned to investors in Q2 2018 forecast total dividends of \$112 billion, with share buybacks greater than \$200 billion, setting another new high. Share buybacks over the 2018 calendar year are estimated to be greater than \$1 trillion dollars.
- Since the global financial crisis, S&P 500 companies have significantly improved the liquidity of their assets, increasing the proportion of total assets in cash and cash equivalents from around 20% to around 30%. The recent volatility in equity markets has afforded these companies the opportunity to repurchase stock.
- The S&P 500 index has returned 2.8% YTD in 2018 (through June 30). Much of this year's return can be attributed to the support provided by these share repurchase programs, which are expected to continue into the near future.



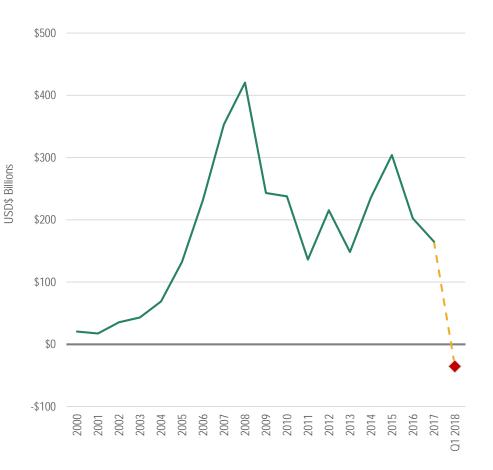
#### S&P 500 Dividends and Buybacks

Source this page: Standard & Poor's

\* Segal Marco Advisors

#### **China's Current Account Balance**

- China is seeing changes to its current account balance as its trade surplus declines.
- The graph shows a history of China's current account balance, which has been mostly positive since 2000. China's current account surplus comes largely from saving more than it invests, and from exporting more than it imports.
- In 2008, China's current account surplus was abnormally high, due to a large volume of exports and a high savings rate of 50% of GDP. But since then, net trade balance or investment has declined. Implied, therefore, is that savings have declined even more, pointing to increased consumption. This makes sense as China moves to an internally driven and more balanced economy, with the growth of its middle class and increased spending.
- China's current account was negative in Q1 2018. While this figure will likely rebound in the next several months, forecasts are for a much lower Chinese current account in the next couple years (<1% of GDP). Any trade tariffs between China and the U.S. could be a headwind on top of this.
- These developments could mean a more volatile exchange rate for the yuan, or could make the yuan become a more competitive currency in the global economy if the country finds itself liquidating assets or borrowing more (issuing bonds) to pay for consumption.

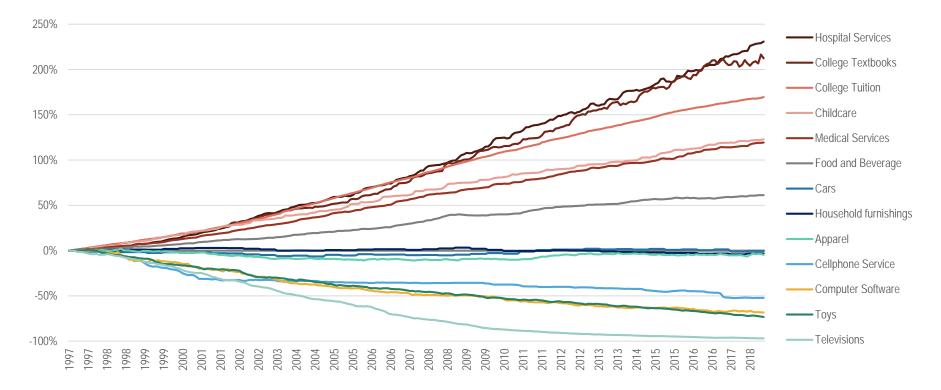


#### China - Current Account Balance 2000 - Q1 2018



#### **Price Changes and Inflation**

- The possible impact of a tariff-driven trade war can be evidenced in the price changes since 1997 for various goods and services.
- A common-thread amongst the items shown in the graph over the last 20-years appears to be that goods and services subject to foreign competition or produced elsewhere (e.g., TVs and toys) have seen prices decline, while prices of goods and services that are not subject to overseas competition or cannot be outsourced (e.g., hospital services, college tuition) have seen prices surge.
- Possible by-products of the currently targeted tariffs could be increased inflation and higher prices for many goods (even beyond the one-time increases for selected imports subject to duties).





### **Annual Asset Class Performance**

															e 30, 2018
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	YTD
Best	31.47	34.54	35.93	39.78	5.24	79.02	29.09	13.56	18.64	43.30	30.38	5.67	31.74	37.75	9.70
	25.95	14.02	32.59	11.81	1.80	58.21	28.47	8.68	18.53	38.82	13.45	2.52	21.31	30.21	7.66
	22.25	12.11	26.86	11.63	-2.35	37.21	26.85	8.46	18.05	34.52	13.24	1.23	17.34	25.62	7.25
	20.70	10.74	23.48	11.63	-10.91	34.47	24.50	7.84	17.90	33.48	13.05	0.92	17.13	22.17	5.44
	18.33	7.05	22.25	7.05	-20.30	32.46	19.20	4.98	17.78	33.11	5.97	0.65	12.05	21.69	2.85
	16.49	6.27	18.37	6.97	-26.16	28.61	16.71	2.64	17.51	32.53	5.60	0.55	11.60	14.65	1.33
	14.31	5.66	15.46	6.28	-28.92	28.43	16.10	1.50	16.42	23.29	5.53	0.03	11.32	13.66	1.19
	11.75	5.26	13.35	5.77	-33.79	28.19	15.51	0.39	16.35	7.90	4.89	-0.39	10.19	9.32	0.79
	11.40	4.71	11.86	4.74	-36.85	27.17	15.12	0.06	15.81	7.44	4.22	-1.38	8.60	7.84	0.16
	11.14	4.55	9.86	1.87	-37.60	24.67	13.16	-2.44	15.26	2.47	3.64	-1.44	7.08	7.50	-0.02
	8.46	4.15	9.07	1.81	-37.98	20.58	12.06	-2.91	14.59	0.06	3.40	-3.83	6.36	5.07	-1.62
	8.20	3.01	8.99	-0.17	-38.44	19.69	8.21	-4.18	8.18	-2.02	2.45	-4.41	4.68	4.09	-1.69
	6.30	2.84	4.76	-1.57	-38.54	11.41	6.54	-5.50	6.98	-2.27	0.02	-4.47	2.65	3.54	-2.37
	4.34	2.74	4.34	-9.78	-43.06	5.93	6.31	-11.73	4.21	-6.58	-1.82	-7.47	1.51	3.01	-5.23
Worst	1.24	2.43	0.49	-16.81	-53.18	0.16	0.10	-18.17	0.09	-8.61	-4.48	-14.60	0.27	0.84	-6.51
Russell 1000 Index	Russell 1000 Value Index	Russell 1000 Growth Index	Russel 2000 Index	Russel 2000 Value Index	I Russe 2000 Growth Index	n EAF	E Emer	ging tets	DEIT Bar	Bar	c. U.S. Ba	Corp: (	EMBI	IFRI RV: Multi- Strategy Index	FTSE 3 Month T- Bill



# Administrative Review



#### Nevada Public Employees' Deferred Compensation Program

### **Executive Summary as of June 30, 2018**

#### **Deferred Compensation Total Assets**

> Plan assets in the 457 Plan totaled to **\$811.5 million** as of June 30, 2018. This represented an increase of **\$11.4 million**, during the second quarter of 2018.

0	State 457	\$567,616,122
0	NSHE	\$62,189,084
0	Political Sub-Divisions	\$181,678,998
0	FICA Alternative Plans	\$38,674,805
0	Total	\$850,159,009

- > As of June 30, 2018, the Plan's Total Number of Loans Outstanding is **485.** The Plan's Outstanding Loan Balance is **\$3,801,699.88.**
- The largest amount of Plan assets, are invested in the Stable Value Funds representing \$317.3 million, or 39.1%, in the Voya Fixed Account. The next largest fund allocations among the Plan are: 11.0% in the Vanguard Institutional Index Fund; 7.5% in the T. Rowe Price Growth Stock Fund I; 6.8% in the Hartford Mid Cap HLS Fund; and, 4.5% in the Vanguard Target Date 2035 Fund.
- > Target date funds' assets totaled **\$152.5 million** and accounted for approximately **18.8%** of Total Plan assets.
- ➤ As of June 30, 2018, the projected total annual funding requirements is \$787,284 based on 8 basis points fee on the variable assets (\$393,100) per the VOYA contract and the Plan administration budget of \$394,184. The fee model revenue is projected at \$772,930 derived from the 8 basis points from the VOYA contract and the \$30 per participant charge. The projected revenue includes only the participant account with balances over \$1,000. At June 30, 2018, the projected revenue would be under the funding requirement by (\$14,354).

### **Oppenheimer Main Street Mid Cap**

- > The Oppenheimer Main Street Mid Cap Fund outperformed the Russell Mid-Cap Index in the second quarter (4.56% vs. 2.82) peer ranking 12.
- > During the quarter, the outperformance was driven by stock selection within the Health Care, Consumer Discretionary, and Industrials sectors.
- > Sector allocation was a contributor to performance with a modest overweight position to the Energy sector.
- > During the second quarter, the primary positive contributors to relative performance included Noble Energy, First Data, and Wabtec.
- > The primary negative contributors to relative performance included Eastman Chemical, Lincoln National, and Western Digital.

### **Goldman Sachs Small/Mid Cap Growth**

- > The Goldman Sachs Small/Mid Cap Growth underperformed the Russell 2500 Growth Index over the second quarter (3.00% vs. 5.53%) and has underperformed the index over the 1-year period (18.76% vs. 21.53%).
- > Stock selection in the Industrials and Information Technology sectors detracted from relative returns while a zero weight to the Utilities sector contributed to the performance.
- At an individual stock level, ABIOMED and Dunkin' Brands Group, Inc. were the two contributors to relative returns, while John Bean Technologies Corporation and Alkermes Plc we the largest detractors to performance.

### **Franklin Mutual Global Discovery**

- The Franklin Mutual Global Discovery Fund outperformed the MSCI AC World Index (net) over the second quarter (1.20% vs. 0.53%) and had a peer ranking of 20. The fund also outperformed the MSCI World Value index for the quarter (1.20% vs -0.20%) and year-to-date (-1.60% vs -3.39%).
- > During the quarter, the fund's largest detractors from absolute performance included Symantec Corporation, Societe Generale S.A. Class A and Volkswagen AG Pref.
- > The three leading contributors were Royal Philips NV, Royal Dutch Shell Plc Class A and Marathon Oil Corporation.



### **Dodge & Cox International Stock**

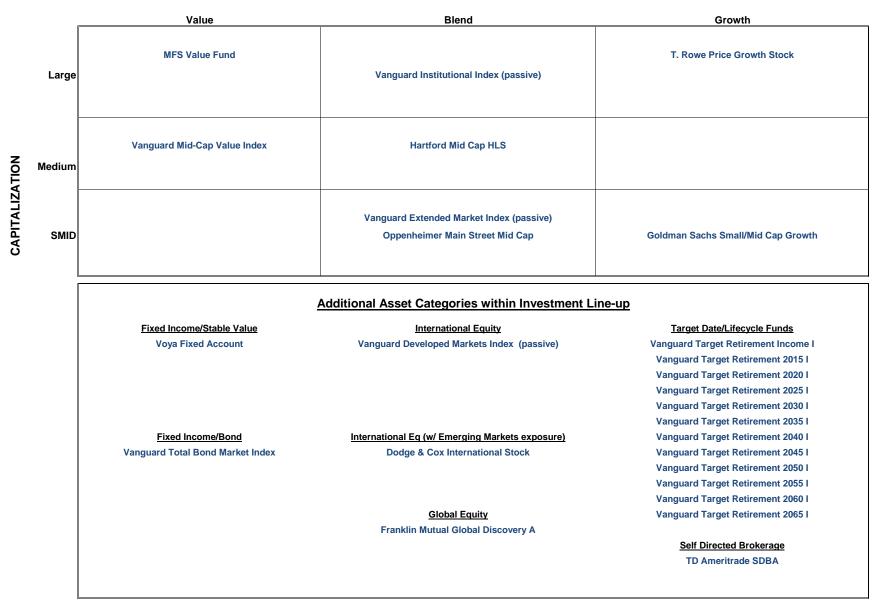
- The Dodge & Cox International Stock Fund underperformed the MSCI AC World Index (net) over the second quarter (-5.12% vs. -2.61%) and had a peer ranking of 95. The fund also underperformed the MSCI EAFE (Net) index for the quarter (-5.12% vs -1.24%). The fund has underperformed both indexes over the rolling 3- and 5-year periods as well.
- > During the quarter, the fund's largest detractors from absolute performance included Itau Unibanco, UniCredit, Societe Generale. Barclays, and BNP Paribas.
- > The leading contributors were Linde, Nutrien, Altice, Grupo Televisa, and Naspers.



### Nevada Public Employees' Deferred Compensation Plan Current Investment Structure

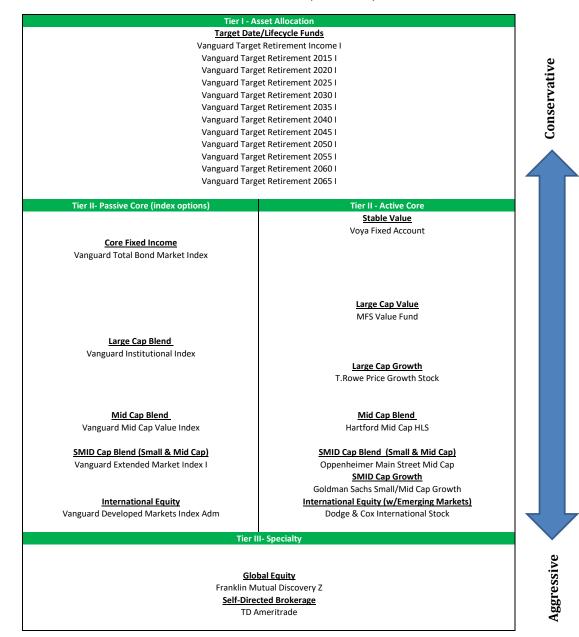
Voya

#### STYLE



#### State of Nevada Deferred Compensation Plan Line-Up

Plan Review - Investment Options Array



#### State of Nevada Deferred Compensation Plan Line-Up

Plan Review - Investment Options Array

	Tier I: Asset Allocation	Tier II (A): Passive Core (index options)	Tier II(B): Active Core	Tier III: (Specialty
CONSERVATIVE			Stable Value	
			Voya Fixed Account	
		Core Fixed Income		
	Target Date/Lifecycle Funds	Vanguard Total Bond Market Index		
	Vanguard Target Retirement Funds			
	vanguara ranget netirement rands			
			Large Cap Value	
			MFS Value Fund	
		Large Cap Blend		
		Vanguard Institutional Index	Large Cap Growth	
			T.Rowe Price Growth Stock	
		Mid Cap Blend	Mid Cap Blend	
		Vanguard Mid Cap Value Index	Hartford Mid Cap HLS	
		SMID Cap Blend (Small & Mid Cap)	SMID Cap Blend (Small & Mid Cap)	
		Vanguard Extended Market Index I	Oppenheimer Main Street Mid Cap SMID Cap Growth	
			Goldman Sachs Small/Mid Cap Growth	
		International Equity	International Equity (w/Emerging Market)	Global Equity
		Vanguard Developed Markets Index I	Dodge & Cox International Stock	Franklin Mutual Discovery A
				Self-Directed Brokerage
AGGRESSIVE				TD Ameritrade

#### Current Watch List as of June 30, 2018

<u>Fund</u>	Date Put on <u>Watchlist</u>	Date Removed <u>from Watchlist</u>	Current Reccomendations
Oppenheimer Main Street Mid Cap	December 31, 2016	Remain	5-year performance under benchmark and peer
Goldman Sachs Small/Mid Cap Growth	December 31, 2016	Remain	5-year performance under benchmark and peer
Franklin Mutual Global Discovery	June 30, 2017	Remain	5-year performance under benchmark and peer recommend either mapping to current funds or conduct search in 2018
Vanguard Developed Markets Index Instl	June 30, 2018	Remain	5-year performance under benchmark and peer by -25 bps
Dodge & Cox International Stock	June 30, 2018	Remain	5-year performance under benchmark and peer
Vanguard Target Retirement 2020 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -23 bps
Vanguard Target Retirement 2025 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -22 bps
Vanguard Target Retirement 2030 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -25 bps
Vanguard Target Retirement 2035 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -26 bps
Vanguard Target Retirement 2040 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -27 bps
Vanguard Target Retirement 2045 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -28 bps
Vanguard Target Retirement 2050 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -29 bps
Vanguard Target Retirement 2055 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer -32 bps
Vanguard Target Retirement 2060 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer -32 bps

Watch list criteria: - Fund to out perform benchmak AND peer group for the 5-year period - Index Fund underperform benchmark by more than 20bps

Fund	Date Put on Watch List	Date Removed from Watchlist	Prior Action
Vanguard Developed Markets Index	June 30, 2017	March 31, 2018	Removed from watchlist
Parnassus Equity Income	December 31, 2016	Dec. 21, 2017	This Fund was terminated and mapped over to the T. Rowe Price Growth Stock Fund
American Fund Growth Fund R3	June 30, 2017	Dec. 21, 2017	This Fund was terminated and mapped over to the T. Rowe Price Growth Stock Fund
Fidelity Contrafund	December 31, 2016	Dec. 21, 2017	This Fund was terminated and mapped over to the T. Rowe Price Growth Stock Fund
Allianz NFJ Dividend Value (ING)	September 30, 2015	September 30, 2016	This Fund was terminated and mapped over to the MFS Value Fund
Dodge & Cox International	June 30, 2016	December 31, 2016	Removed from watchlist
Franklin Mutual Global Discovery (ING)	September 30, 2015	June 30, 2016	Removed from Watchlist
American Funds Growth Fund of America (ING)	February 1, 2011	June 30, 2016	Removed from Watchlist
Keeley Small Cap Value Fund (ING)	November 1, 2010	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.
Hartford Small Company Fund HLS (Mass Mutual)	December 31, 2012	September 30, 2014	Removed from Watch List due to outperformance of the benchmark and median of the peer universe over the 5-year period, as well as outperformance of the median over the 3- year period.
Victory Diversified Stock Fund (Mass Mutual)	March 31, 2013	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.
Oppenheimer Main St Small & Mid Cap Fund (Mass Mutual)	March 31, 2013	September 30, 2014	Removed from Watch List due to strong recent and long term performance.
American Funds Capital World Growth & Income (ING)	September 30, 2013	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.
Lord Abbett Value Opportunities Fund (MM & ING)	December 31, 2013	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.
Columbia Acorn Fund (ING)	December 31, 2013	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.
Hartford MidCap HLS (Mass Mutual)	February 1, 2011	September 30, 2014	Removed from Watchlist.
Lazard US Mid Cap Equity Fund (ING)	May 1, 2008	March 31, 2013	Fund terminated at the 6/30/2012 review period. Assets were mapped to the Hartford Mid Cap HLS Fund.
Munder Mid Cap Core Growth Fund (Mass Mutual)	November 1, 2010	September 30, 2014	This fund will be removed from the Plan as a result of the vendor consolidation to Voya.
Mutual Global Discovery(Mass Mutual)	February 1, 2010	September 30, 2014	Removed from Watchlist.
Hartford General Account	March 1, 2012	September 30, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.

#### Historical Watch List as of June 30, 2018

#### Fee Level Model Analysis for Total Plan As of June 30, 2018

Fund Name	Ticker	Asset Class		Plan Assets 06/30/2018	Mutual Fund Expense Ratio		utual Fund Total Expense Ratio \$	Revenue Sharing to Participants	Revenue Sharing \$	Net Mutual Fund Total Expense Ratio	Fu	et Mutual Ind Total Expense Ratio \$	Fee level for all variable Participants		sset Fee level	То	otal Cost
Vova Fixed Account	n/a	Stable Value		317,335,124	0.00%	\$	Ralio a	0.00%	snaring ş	0.00%	¢	Ratio ş	0.00%	¢	level	¢	otal Cost
Vanguard Total Bond Market Index I	VBTIX	Core Fixed Income	¢ ¢	16.786.411	0.04%	¢ ¢	6.715	0.00%	 с	0.00%	¢ ¢	6.715	0.00%	э S	13.429	э \$	20.144
Vanguard Institutional Index I	VINIX	Large Cap Core (passive)	э \$	88.832.820	0.04%	¢ ¢	35,533	0.00%	ф -	0.04%	¢ ¢	35,533	0.08%	ф \$	71.066	¢ ¢	106.599
MES Value Fund R4	MEIJX	Large Cap Core (passive)	\$	17.458.100	0.59%	¢ ¢	103,003	0.00%	\$ 26.187	0.44%	ф Ф	76.816	0.08%	¢	13.966	φ Φ	90,782
T Rowe Price Growth Stock Fund I	PRUFX	Large Cap Value	¢ ¢	61,201,946	0.52%	¢ ¢	318,250	0.00%	\$ 20,107 ¢	0.52%	¢ ¢	318,250	0.08%	¢	48,962	¢ ¢	367.212
Hartford Mid Cap HLS IA	HIMCX	Mid Cap Blend	¢ ¢	55,020,842	0.52%	¢ ¢	385,146	0.05%	\$ 27,510	0.65%	¢ ¢	357,635	0.08%	э S	46,962	э \$	401.652
Vanguard Mid-Cap Value	VMVAX	Mid Cap Biend Mid Cap Value	¢ ¢	1.981.815	0.07%	¢ ¢	1,387	0.00%	\$ 27,510	0.05%	¢ ¢	1.387	0.08%	¢ ¢	1,585	φ Φ	2.973
Oppenheimer Main Street Mid Cap Fund	OPMYX	SMID Blend	¢ P	25.781.255	0.07%	¢	221,719	0.00%	\$ 64.453	0.61%	ъ Ф	1,387	0.08%	¢	20,625	Դ Տ	2,973
Vanguard Extended Market Idx I	VIEIX	SMID Blend	¢ ¢	23,761,255	0.06%	¢ ¢	14,027	0.25%	\$ 04,433	0.06%	¢ ¢	14,027	0.08%	э \$	18,702	φ Φ	32,729
Goldman Sachs Small/Mid Cap Growth	GSMAX	SMID Biend SMID Growth	¢ ¢	13.616.677	1.27%	¢ ¢	172,932	0.55%	\$ 74,892	0.72%	¢ ¢	98,040	0.08%	ф \$	10,893	¢ ¢	108,933
Vanguard Developed Markets Index Insti	VTMNX	International Equity	¢ ¢	16.544.502	0.06%	¢ ¢	9.927	0.00%	\$ 74,092 ¢	0.06%	¢ ¢	98,040	0.08%	¢	13.236	¢ ¢	23.162
Dodge & Cox International Stock	DODEX	International Equity w/EM	¢ ¢	6,225,709	0.63%	¢ ¢	39,927	0.10%	\$ 6,226	0.53%	¢ ¢	32,996	0.08%	¢	4,981	э \$	37,977
Franklin Mutual Global Discovery Fund	TEDIX	Global Equity	¢ ¢	12.077.961	1.21%	¢ ¢	39,222 146,143	0.55%	\$ 66,429	0.66%	¢ ¢	32,990 79,715	0.08%	¢ ¢	9,662	φ Φ	89,377
Vanguard Institutional Target Retirement Income Instl	VITRX	Lifecycle	¢ P	17,085,333	0.09%	Ф \$	146,143	0.55%	\$ 66,429 ¢	0.06%	ъ Ф	15,377	0.08%	э S	9,662 13,668	¢	29,045
Vanguard Institutional Target Retirement 2015 Inst	VITVX	Lifecycle	¢ ¢			¢ ¢		0.00%	- с	0.09%	¢ ¢		0.08%	э S		φ Φ	29,045 53.357
	VITWX		¢	31,386,558	0.09% 0.09%	¢	28,248	0.00%	- Ф	0.09%	¢	28,248	0.08%	э S	25,109	\$	
Vanguard Institutional Target Retirement 2020 Instl	VRIVX	Lifecycle	þ	9,604,728		¢	8,644		э - •		¢	8,644		þ	,	\$	16,328
Vanguard Institutional Target Retirement 2025 Instl	VRIVX	Lifecycle	\$	31,885,559	0.09%	\$	28,697	0.00% 0.00%	5 - ¢	0.09% 0.09%	\$	28,697	0.08% 0.08%	\$	25,508	\$	54,205
Vanguard Institutional Target Retirement 2030 Instl	VITEX	Lifecycle	þ	6,680,112	0.09%	¢	6,012		э - •		¢	6,012		þ	5,344	¢	11,356
Vanguard Institutional Target Retirement 2035 Instl	VITEX	Lifecycle	\$	36,664,867	0.09% 0.09%	\$	32,998	0.00% 0.00%	5 - ¢	0.09% 0.09%	\$	32,998	0.08% 0.08%	\$ \$	29,332	\$ \$	62,330 4,124
Vanguard Institutional Target Retirement 2040 Instl	-	Lifecycle	þ	2,425,782		¢	2,183		э - •		¢	2,183		þ	1,941	¢	,
Vanguard Institutional Target Retirement 2045 Instl	VITLX VTRLX	Lifecycle	\$	13,621,480	0.09%	\$	12,259 444	0.00% 0.00%	5 - ¢	0.09% 0.09%	\$	12,259 444	0.08% 0.08%	\$	10,897 395	\$	23,157
Vanguard Institutional Target Retirement 2050 Instl		Lifecycle	þ	493,276	0.09%	¢			э - •		Ð			þ		¢	839
Vanguard Institutional Target Retirement 2055 Instl	VIVLX	Lifecycle	\$	2,541,491	0.09%	\$	2,287	0.00%	ъ -	0.09%	\$	2,287	0.08%	\$	2,033	\$	4,321
Vanguard Institutional Target Retirement 2060 Instl	VILVX	Lifecycle	\$	51,867	0.09%	\$	47	0.00%	<b>5</b> -	0.09%	\$	47	0.08%	\$	41	\$	88
Vanguard Institutional Target Retirement 2065 Instl	VSXFX	Lifecycle	\$	28,392	0.09%	\$	26	0.00%	ъ -	0.09%	\$	26	0.08%	\$	23	\$	48
TD Ameritrade SDBA	N/A	Brokerage account	\$	2,773,981	0.00%	\$	-	0.00%	⇒ -	0.00%	\$	-	0.08%	\$	2,219	\$	2,219
TOTALS			\$	811,484,203		\$	1,591,225		\$ 265,697		\$	1,325,528	1	\$	393,100	\$1	1,718,629

All Funds		
Average Net Expense Ratio <sup>1</sup>		0.22%
Weighted Gross Average Variable Expense Ratio <sup>1</sup>		0.32%
Weighted Net Average Variable Expense Ratio <sup>1</sup>		0.27%
<sup>1</sup> Does not include Stable Value or TD Ameritrade		
Voya Contract Requirements: 0.08% on variable assets	\$	393,100
Plan Administration Costs:	\$	394,184
Total Funding Requirements	\$	787,284
Voya Contract Requirements: 0.08% on variable assets	\$	393,100
\$30 per participant accounts (12,661)	Ŝ	379,830
Total Revenue	\$	772,930
Estimated Excess Revenue Share (includes		
participants less than \$1,000 account balances)	\$	(14,354)

Number of participants with account balances: 12,661 \*\*

\*\* Does not include FICA participants or participants with account balanced below \$1,000 (2,625)

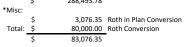
Explicit Asset Based Fee 8 basis points plus \$30/participant this illustration

Account Totals			
		Accounts	
	Accounts	Less Than	Total
	Charged	\$1,000	Accounts
State	9,449	2,051	11,500
Pol Sub	2,556	399	2,955
NSHE	656	175	831
Total	12,661	2,625	15,286

#### Plan Activity: Total All Plans April 1, 2018 through June 30, 2018

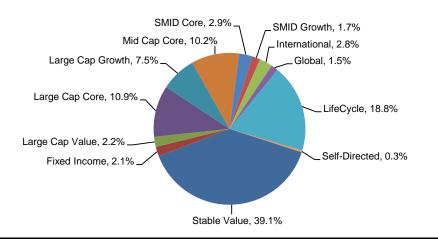
Funds	Beginning Balance April 1, 2018	Contributions	Interfund InterPlan Exchanges	n	Withdrawals		Loan Repayments	Misc*	Fees*	Investment Gain/Loss ncl. Dividends)	Ending Balance June 30, 2018
Voya Fixed Account	\$ 315,877,761	\$ 3,187,474	\$ 3,866,8	314	\$ (7,416,906)	)\$	(130,654)	\$ 83,076	\$ (110,262)	\$ 1,977,822	\$ 317,335,124
Vanguard Total Bond Market Index I	\$ 16,572,928	\$ 317,132	\$ 176,9	20	\$ (233,610)	\$	(17,369)	\$ -	\$ (5,736)	\$ (23,853)	\$ 16,786,411
MFS Value Fund R4	\$ 17,862,876	\$ 249,027	\$ (305,4	32)	\$ (242,809)	\$	306	\$ -	\$ (5,527)	\$ (100,342)	\$ 17,458,100
Vanguard Institutional Index I	\$ 85,913,910	\$ 1,248,947	\$ (14,1	04)	\$ (1,250,384)	\$	8,924	\$ -	\$ (27,082)	\$ 2,952,610	\$ 88,832,820
T. Rowe Price Growth Stock Fund I	\$ 59,089,574	\$ 895,517	\$ (1,322,5	59)	\$ (832,886)	\$	(48,361)	\$ -	\$ (19,662)	\$ 3,440,323	\$ 61,201,946
Hartford Mid Cap HLS IA	\$ 53,145,536	\$ 521,908	\$ 242,7	'98	\$ (973,699)	\$	(50,357)	\$ -	\$ (16,278)	\$ 2,150,933	\$ 55,020,842
Oppenheimer Main Street Mid Cap Fund	\$ 24,661,685	\$ 305,067	\$ 61,2	203	\$ (366,851)	\$	888	\$ -	\$ (7,942)	\$ 1,127,205	\$ 25,781,255
Vanguard Mid-Cap Value Index Fund	\$ 2,157,762	\$ 65,827	\$ (253,3	<b>58)</b>	\$ (15,387)	\$	(3,569)	\$ -	\$ (800)	\$ 31,341	\$ 1,981,815
Vanguard Extended Market Idx I	\$ 21,843,860	\$ 511,019	\$ 341,4	01	\$ (598,413)	\$	(14,514)	\$ -	\$ (7,499)	\$ 1,301,761	\$ 23,377,615
Goldman Sachs Small/Mid Cap Growth	\$ 13,450,182	\$ 208,799	\$ (139,0	92)	\$ (315,428)	\$	(6,652)	\$ -	\$ (4,371)	\$ 423,239	\$ 13,616,677
Vanguard Developed Markets Index Insti	\$ 16,643,909	\$ 416,654	\$ 29,5	51	\$ (273,765)	\$	(3,880)	\$ -	\$ (5,476)	\$ (262,490)	\$ 16,544,502
Dodge & Cox International Stock	\$ 6,853,186	\$ 165,345	\$ (332,3	379)	\$ (122,780)	\$	(632)	\$ -	\$ (2,003)	\$ (335,027)	\$ 6,225,709
Franklin Mutual Global Discovery Fund A	\$ 12,024,488	\$ 177,025	\$ (108,5	510)	\$ (159,601)	\$	(1,899)	\$ -	\$ (3,619)	\$ 150,077	\$ 12,077,961
Vanguard Institutional Target Retirement Income Instl	\$ 17,359,500	\$ 169,818	\$ (280,6	576)	\$ (250,060)	\$	11,743	\$ -	\$ (5,026)	\$ 80,034	\$ 17,085,333
Vanguard Institutional Target Retirement 2015 Instl	\$ 31,261,471	\$ 808,526	\$ (342,3	95)	\$ (465,003)	\$	(20,590)	\$ -	\$ (12,989)	\$ 157,538	\$ 31,386,558
Vanguard Institutional Target Retirement 2020 Instl	\$ 9,287,851	\$ 97,204	\$ 388,0	97	\$ (239,945)	\$	14,338	\$ -	\$ (2,679)	\$ 59,862	\$ 9,604,728
Vanguard Institutional Target Retirement 2025 Instl	\$ 31,620,092	\$ 1,247,404	\$ (602,2	242)	\$ (558,587)	\$	(36,845)	\$ -	\$ (14,975)	\$ 230,711	\$ 31,885,559
Vanguard Institutional Target Retirement 2030 Instl	\$ 6,553,657	\$ 184,880	\$ (36,1	63)	\$ (67,282)	\$	(3,770)	\$ -	\$ (2,140)	\$ 50,931	\$ 6,680,112
Vanguard Institutional Target Retirement 2035 Instl	\$ 36,393,530	\$ 1,342,765	\$ (398,2	219)	\$ (952,299)	\$	(16,685)	\$ -	\$ (20,000)	\$ 315,776	\$ 36,664,867
Vanguard Institutional Target Retirement 2040 Instl	\$ 2,326,229	\$ 144,871	\$ (42,0	31)	\$ (24,501)	\$	1,034	\$ -	\$ (930)	\$ 21,109	\$ 2,425,782
Vanguard Institutional Target Retirement 2045 Instl	\$ 13,405,428	\$ 891,838	\$ (590,7	'46)	\$ (185,889)	\$	(16,501)	\$ -	\$ (11,127)	\$ 128,478	\$ 13,621,480
Vanguard Institutional Target Retirement 2050 Instl	\$ 387,263	\$ 62,925	\$ 41,9	68	\$ (1,593)	\$	(191)	\$ -	\$ (279)	\$ 3,182	\$ 493,276
Vanguard Institutional Target Retirement 2055 Instl	\$ 2,513,596	\$ 238,795	\$ (211,2	216)	\$ (19,851)	\$	(1,523)	\$ -	\$ (2,039)	\$ 23,728	\$ 2,541,491
Vanguard Institutional Target Retirement 2060 Instl	\$ 34,914	\$ 15,946	\$ 4	89	\$-	\$	267	\$ -	\$ (26)	\$ 278	\$ 51,867
Vanguard Institutional Target Retirement 2065 Instl	\$ 32,293	\$ 9,187	\$ (13,4	98)	\$-	\$	-	\$ -	\$ (23)	\$ 433	\$ 28,392
TD Ameritrade SDBA	\$ 2,843,136	\$ -	\$ (156,6	521)	\$-	\$	-	\$ -	\$ -	\$ 87,466	\$ 2,773,981
Total	\$ 800,116,615	\$ 13,483,901	\$	(0)	\$ (15,567,529)	\$	(336,492)	\$ 83,076	\$ (288,494)	\$ 13,993,124	\$ 811,484,203

\*Fees: \$ 82,000.00 Payment from Reimbursement Account to State <u>\$ 206,493.78</u> <u>\$ 288,493.78</u>



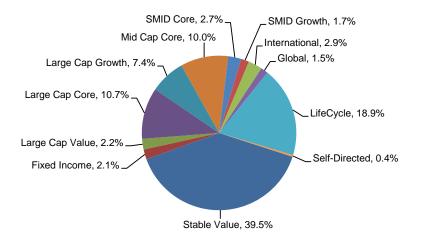
# Asset Allocation Summary: Total All Plans

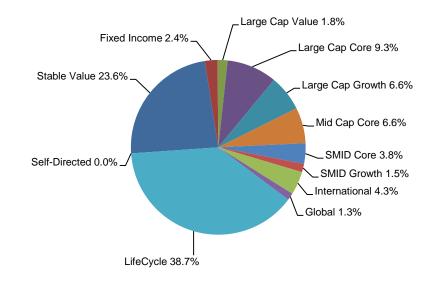
		June 30, 2018						
Fund			Assets	% of Total Assets				
Voya Fixed Account		\$	317,335,124	39.1%				
Vanguard Total Bond Market Index I		\$	16,786,411	2.1%				
MFS Value Fund R4		\$	17,458,100	2.2%				
Vanguard Institutional Index I		\$	88,832,820	10.9%				
T. Rowe Price Growth Stock Fund I		\$	61,201,946	7.5%				
Hartford Mid Cap HLS IA		\$	55,020,842	6.8%				
Oppenheimer Main Street Mid Cap Fund		\$	25,781,255	3.2%				
Vanguard Mid-Cap Value Index Fund		\$	1,981,815	0.2%				
Vanguard Extended Market Idx I		\$	23,377,615	2.9%				
Goldman Sachs Small/Mid Cap Growth		\$	13,616,677	1.7%				
Vanguard Developed Markets Index Insti		\$	16,544,502	2.0%				
Dodge & Cox International Stock		\$	6,225,709	0.8%				
Franklin Mutual Global Discovery Fund A		\$	12,077,961	1.5%				
Vanguard Institutional Target Retirement Income Instl		\$	17,085,333	2.1%				
Vanguard Institutional Target Retirement 2015 Instl		\$	31,386,558	3.9%				
Vanguard Institutional Target Retirement 2020 Instl		\$	9,604,728	1.2%				
Vanguard Institutional Target Retirement 2025 Instl		\$	31,885,559	3.9%				
Vanguard Institutional Target Retirement 2030 Instl		\$	6,680,112	0.8%				
Vanguard Institutional Target Retirement 2035 Instl		\$	36,664,867	4.5%				
Vanguard Institutional Target Retirement 2040 Instl		\$	2,425,782	0.3%				
Vanguard Institutional Target Retirement 2045 Instl		\$	13,621,480	1.7%				
Vanguard Institutional Target Retirement 2050 Instl		\$	493,276	0.1%				
Vanguard Institutional Target Retirement 2055 Instl		\$	2,541,491	0.3%				
Vanguard Institutional Target Retirement 2060 Instl		\$	51,867	0.0%				
Vanguard Institutional Target Retirement 2065 Instl		\$	28,392	0.0%				
TD Ameritrade SDBA		\$	2,773,981	0.3%				
	Total	\$	811,484,203	100.0%				



### Asset Allocation as of June 30, 2018

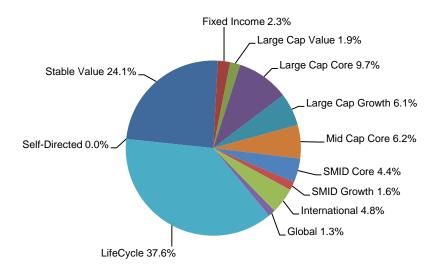
### Asset Allocation as of April 1, 2018





# Plan Contributions - 2nd Quarter 2018





### Plan Activity: State Plan Activity April 1, 2018 through June 30, 2018

Funds	Beginning Balance April 1, 2018	Conti	ributions	Interfund InterPlan Exchanges	Withdrawals	Loan Repayments	Misc*	Fees*	nvestment Gain/Loss cl. Dividends)	Ending Balance June 30, 2018
Voya Fixed Account	\$ 231,060,133	\$	2,124,065	\$ 3,696,955	\$ (5,091,867)	\$ (130,654)	\$ 3,076	\$ (103,708)	\$ 1,448,644	\$ 233,006,645
Vanguard Total Bond Market Index I	\$ 9,905,546	\$	182,262	\$ 195,482	\$ (146,499)	\$ (17,369)	\$ -	\$ (3,609)	\$ (12,911)	\$ 10,102,901
MFS Value Fund R4	\$ 12,012,986	\$	151,500	\$ (201,400)	\$ (178,259)	\$ 306	\$ -	\$ (3,820)	\$ (67,479)	\$ 11,713,834
Vanguard Institutional Index I	\$ 55,898,128	\$	817,267	\$ (143,898)	\$ (1,011,394)	\$ 8,924	\$ -	\$ (18,034)	\$ 1,921,776	\$ 57,472,769
T Rowe Price Growth Stock Fund I	\$ 39,829,495	\$	635,659	\$ (1,313,314)	\$ (596,890)	\$ (48,361)	\$ -	\$ (13,771)	\$ 2,303,023	\$ 40,795,841
Hartford Mid Cap HLS IA	\$ 39,735,436	\$	361,659	\$ 97,306	\$ (850,293)	\$ (50,357)	\$ -	\$ (12,277)	\$ 1,621,544	\$ 40,903,018
Oppenheimer Main Street Mid Cap Fund	\$ 14,981,133	\$	166,676	\$ 3,864	\$ (162,740)	\$ 888	\$ -	\$ (5,061)	\$ 685,250	\$ 15,670,009
Vanguard Mid-Cap Value Index Fund - Admiral Shares	\$ 1,574,816	\$	50,737	\$ (215,357)	\$ (15,387)	\$ (3,569)	\$ -	\$ (557)	\$ 22,977	\$ 1,413,660
Vanguard Extended Market Idx I	\$ 12,467,606	\$	312,736	\$ 206,214	\$ (404,927)	\$ (14,514)	\$ -	\$ (4,465)	\$ 744,097	\$ 13,306,747
Goldman Sachs Small/Mid Cap Growth	\$ 8,945,060	\$	135,494	\$ (353,442)	\$ (236,629)	\$ (6,652)	\$ -	\$ (2,996)	\$ 288,158	\$ 8,768,994
Vanguard Developed Markets Index Insti	\$ 10,088,192	\$	241,076	\$ (108,966)	\$ (171,323)	\$ (3,880)	\$ -	\$ (3,351)	\$ (153,577)	\$ 9,888,170
Dodge & Cox International Stock	\$ 4,336,875	\$	110,669	\$ (232,241)	\$ (94,088)	\$ (632)	\$ -	\$ (1,367)	\$ (212,099)	\$ 3,907,117
Franklin Mutual Global Discovery Fund	\$ 7,715,232	\$	110,418	\$ (35,468)	\$ (106,887)	\$ (1,899)	\$ -	\$ (2,418)	\$ 95,794	\$ 7,774,771
Vanguard Institutional Target Retirement Income Instl	\$ 13,243,376	\$	96,351	\$ (233,598)	\$ (156,098)	\$ 11,743	\$ -	\$ (3,843)	\$ 60,936	\$ 13,018,867
Vanguard Institutional Target Retirement 2015 Instl	\$ 25,232,641	\$	613,985	\$ (335,422)	\$ (336,853)	\$ (20,590)	\$ -	\$ (10,769)	\$ 126,713	\$ 25,269,705
Vanguard Institutional Target Retirement 2020 Instl	\$ 6,411,688	\$	68,913	\$ 414,562	\$ (226,439)	\$ 14,338	\$ -	\$ (1,952)	\$ 41,518	\$ 6,722,629
Vanguard Institutional Target Retirement 2025 Instl	\$ 22,099,962	\$	862,575	\$ (578,411)	\$ (317,658)	\$ (36,845)	\$ -	\$ (11,374)	\$ 162,302	\$ 22,180,550
Vanguard Institutional Target Retirement 2030 Instl	\$ 4,427,388	\$	110,976	\$ 60,271	\$ (56,376)	\$ (3,770)	\$ -	\$ (1,529)	\$ 34,527	\$ 4,571,485
Vanguard Institutional Target Retirement 2035 Instl	\$ 27,949,146	\$	861,718	\$ (297,246)	\$ (833,259)	\$ (16,685)	\$ -	\$ (15,840)	\$ 242,528	\$ 27,890,361
Vanguard Institutional Target Retirement 2040 Instl	\$ 1,411,878	\$	105,512	\$ (6,143)	\$ (17,331)	\$ 1,034	\$ -	\$ (614)	\$ 12,584	\$ 1,506,922
Vanguard Institutional Target Retirement 2045 Instl	\$ 7,956,304	\$	553,309	\$ (532,309)	\$ (159,452)	\$ (16,501)	\$ -	\$ (7,904)	\$ 75,510	\$ 7,868,957
Vanguard Institutional Target Retirement 2050 Instl	\$ 270,239	\$	30,409	\$ 16,918	\$ (1,515)	\$ (191)	\$ -	\$ (207)	\$ 2,401	\$ 318,055
Vanguard Institutional Target Retirement 2055 Instl	\$ 1,790,096	\$	133,267	\$ (179,506)	\$ (17,696)	\$ (1,523)	\$ -	\$ (1,473)	\$ 16,539	\$ 1,739,704
Vanguard Institutional Target Retirement 2060 Instl	\$ 25,552	\$	11,329	\$ 489	\$ -	\$ 267	\$ -	\$ (16)	\$ 236	\$ 37,856
Vanguard Institutional Target Retirement 2065 Instl	\$ 21,373	\$	8,874	\$ (13,498)	\$ -	\$ -	\$ -	\$ (16)	\$ 329	\$ 17,062
TD Ameritrade SDBA	\$ 1,690,814	\$	-	\$ 32,380	\$ -	\$ -	\$ -	\$ -	\$ 26,300	\$ 1,749,494
Total	\$ 561,081,093	\$	8,857,435	\$ (55,777)	\$ (11,189,862)	\$ (336,492)	\$ 3,076	\$ (230,972)	\$ 9,487,620	\$ 567,616,122

\*Fees: \$ 82,000.00

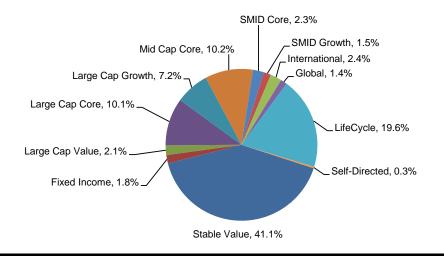
 \$
 148,971.93
 Loans; Admin Fees; Asset Based Fees; Morningstar Fees

 \$
 230,971.93

\*Misc: Total: \$ 3,076.35 Roth in Plan Conversion \$ 3,076.35

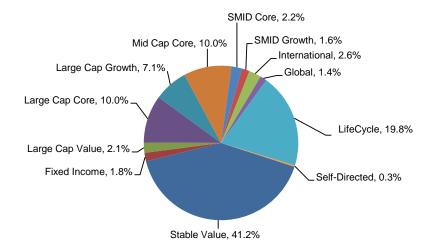
# Asset Allocation Summary: State Plan Activity

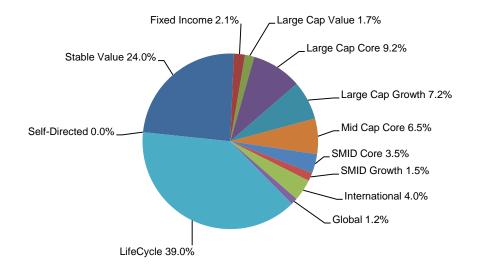
		June 30, 2018							
Fund		Assets % of Total Ass							
Voya Fixed Account		\$	233,006,645	41.1%					
Vanguard Total Bond Market Index I		\$	10,102,901	1.8%					
MFS Value Fund R4		\$	11,713,834	2.1%					
Vanguard Institutional Index I		\$	57,472,769	10.1%					
T Rowe Price Growth Stock Fund I		\$	40,795,841	7.2%					
Hartford Mid Cap HLS IA		\$	40,903,018	7.2%					
Oppenheimer Main Street Mid Cap Fund		\$	15,670,009	2.8%					
Vanguard Extended Market Idx I		\$	1,413,660	0.2%					
Goldman Sachs Small/Mid Cap Growth		\$	13,306,747	2.3%					
Vanguard Mid-Cap value Index Fund-Admiral Shares		\$	8,768,994	1.5%					
Vanguard Developed Markets Index Instl		\$	9,888,170	1.7%					
Dodge & Cox International Stock		\$	3,907,117	0.7%					
Franklin Mutual Global Discovery Fund		\$	7,774,771	1.4%					
Vanguard Institutional Target Retirement Income Instl		\$	13,018,867	2.3%					
Vanguard Institutional Target Retirement 2015 Instl		\$	25,269,705	4.5%					
Vanguard Institutional Target Retirement 2020 Instl		\$	6,722,629	1.2%					
Vanguard Institutional Target Retirement 2025 Instl		\$	22,180,550	3.9%					
Vanguard Institutional Target Retirement 2030 Instl		\$	4,571,485	0.8%					
Vanguard Institutional Target Retirement 2035 Instl		\$	27,890,361	4.9%					
Vanguard Institutional Target Retirement 2040 Instl		\$	1,506,922	0.3%					
Vanguard Institutional Target Retirement 2045 Instl		\$	7,868,957	1.4%					
Vanguard Institutional Target Retirement 2050 Instl		\$	318,055	0.1%					
Vanguard Institutional Target Retirement 2055 Instl		\$	1,739,704	0.3%					
Vanguard Institutional Target Retirement 2060 Instl		\$	37,856	0.0%					
Vanguard Institutional Target Retirement 2065 Instl		\$	17,062	0.0%					
TD Ameritrade SDBA		\$	1,749,494	0.3%					
	Total	\$	567,616,122	100.0%					



### Asset Allocation as of June 30, 2018

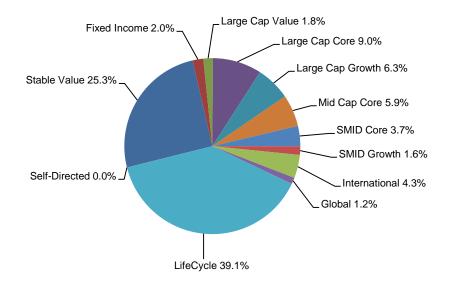
### Asset Allocation as of April 1, 2018





# Plan Contributions - 2nd Quarter 2018

# Plan Contributions - 1st Quarter 2018



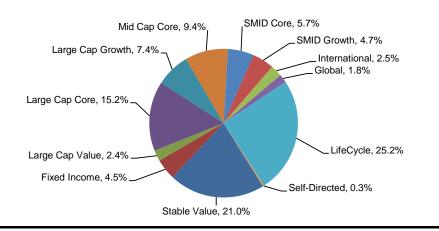
#### Plan Activity: Nevada System of Higher Education April 1, 2018 through June 30, 2018

Funds	Beginning Balance April 1, 2018	Contribu	tions	Int	terfund terPlan changes	With	ndrawals	Loan Repayments	Misc	Fees*	Ģ	ivestment Gain/Loss I. Dividends)	Ending Balance June 30, 2018
Voya Fixed Account	\$ 12,856,846	\$ 2	06,451	\$	241,063	\$	(431,106)	\$ -	\$ 80,000	\$ (843)	\$	80,087	\$ 13,032,497
Vanguard Total Bond Market Index I	\$ 2,836,404	\$	76,146	\$	(50,080)	\$	(32,770)	\$ -	\$ -	\$ (733)	\$	(4,689)	\$ 2,824,280
MFS Value Fund R4	\$ 1,488,352	\$	22,105	\$	(25,262)	\$	(2,286)	\$ -	\$ -	\$ (385)	\$	(8,568)	\$ 1,473,957
Vanguard Institutional Index I	\$ 8,908,024	\$ 1	64,110	\$	132,765	\$	(83,476)	\$ -	\$ -	\$ (2,400)	\$	309,032	\$ 9,428,054
T Rowe Price Growth Stock Fund I	\$ 4,504,923	\$	72,307	\$	(125,036)	\$	(105,280)	\$ -	\$ -	\$ (1,329)	\$	267,785	\$ 4,613,370
Hartford Mid Cap HLS IA	\$ 3,181,242	\$	26,678	\$	1,076	\$	(651)	\$ -	\$ -	\$ (835)	\$	125,866	\$ 3,333,376
Oppenheimer Main Street Mid Cap Fund	\$ 2,231,570	\$	18,495	\$	19,363	\$	(112,566)	\$ -	\$ -	\$ (570)	\$	99,885	\$ 2,256,177
Vanguard Mid-Cap Value Index Fund	\$ 232,022	\$	4,390	\$	5,034	\$	-	\$ -	\$ -	\$ (60)	\$	3,278	\$ 244,665
Vanguard Extended Market Idx I	\$ 3,401,428	\$	56,456	\$	(29,619)	\$	(99,889)	\$ -	\$ -	\$ (940)	\$	201,985	\$ 3,529,421
Goldman Sachs Small/Mid Cap Growth	\$ 1,593,415	\$	21,002	\$	(9,248)	\$	(50,210)	\$ -	\$ -	\$ (431)	\$	48,473	\$ 1,603,001
Vanguard Developed Markets Index Instl	\$ 1,337,051	\$	34,180	\$	3,852	\$	(39,058)	\$ -	\$ -	\$ (362)	\$	(21,680)	\$ 1,313,982
Dodge & Cox International Stock	\$ 1,677,319	\$	27,639	\$	(27,167)	\$	(17,965)	\$ -	\$ -	\$ (392)	\$	(84,238)	\$ 1,575,195
Franklin Mutual Global Discovery Fund	\$ 1,122,215	\$	14,192	\$	(8,865)	\$	(24,206)	\$ -	\$ -	\$ (285)	\$	14,493	\$ 1,117,544
Vanguard Institutional Target Retirement Income Instl	\$ 1,539,156	\$	52,132	\$	(13,643)	\$	(75,112)	\$ -	\$ -	\$ (509)	\$	7,040	\$ 1,509,065
Vanguard Institutional Target Retirement 2015 Instl	\$ 3,581,680	\$ 1	23,763	\$	(7,824)	\$	(105,189)	\$ -	\$ -	\$ (1,253)	\$	18,626	\$ 3,609,804
Vanguard Institutional Target Retirement 2020 Instl	\$ 991,116	\$	14,548	\$	-	\$	(1,402)	\$ -	\$ -	\$ (267)	\$	6,388	\$ 1,010,382
Vanguard Institutional Target Retirement 2025 Instl	\$ 3,950,196	\$ 1	83,203	\$	(16,636)	\$	(83,953)	\$ -	\$ -	\$ (1,290)	\$	29,344	\$ 4,060,865
Vanguard Institutional Target Retirement 2030 Instl	\$ 363,944	\$	37,432	\$	-	\$	-	\$ -	\$ -	\$ (116)	\$	3,233	\$ 404,493
Vanguard Institutional Target Retirement 2035 Instl	\$ 2,943,797	\$ 1	47,413	\$	(97,737)	\$	(12,500)	\$ -	\$ -	\$ (1,189)	\$	26,820	\$ 3,006,603
Vanguard Institutional Target Retirement 2040 Instl	\$ 293,234	\$	14,789	\$	-	\$	-	\$ -	\$ -	\$ (85)	\$	2,801	\$ 310,740
Vanguard Institutional Target Retirement 2045 Instl	\$ 1,401,211	\$	80,361	\$	(26,265)	\$	(3,907)	\$ -	\$ -	\$ (581)	\$	14,254	\$ 1,465,073
Vanguard Institutional Target Retirement 2050 Instl	\$ 967	\$	3,019	\$	-	\$	-	\$ -	\$ -	\$ (1)	\$	9	\$ 3,993
Vanguard Institutional Target Retirement 2055 Instl	\$ 308,516	\$	21,569	\$	(31,710)	\$	-	\$ -	\$ -	\$ (86)	\$	3,553	\$ 301,843
Vanguard Institutional Target Retirement 2060 Instl	\$ 284	\$	950	\$	-	\$	-	\$ -	\$ -	\$ (0)	\$	(7)	\$ 1,227
Vanguard Institutional Target Retirement 2065 Instl	\$ -	\$	-	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -
TD Ameritrade SDBA	\$ 92,512.97	\$	-	\$	66,000.00	\$	-	\$ -	\$ -	\$ -	\$	964.56	\$ 159,478
Total	\$ 60,837,425	\$ 1,4	23,331	\$	62	\$	(1,281,527)	\$ -	\$ 80,000	\$ (14,942)	\$	1,144,734	\$ 62,189,084

\*Fees: \$ \$ 14,942.32 Loans; Admin Fees; Asset Based Fees; Morningstar Fees 14,942.32

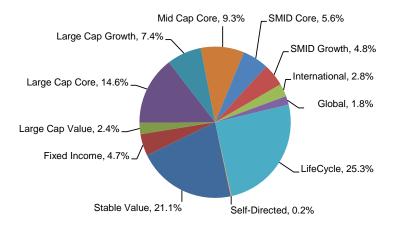
		June 30, 2018							
Fund		Assets	% of Total Assets						
Voya Fixed Account	\$	13,032,497	21.0%						
Vanguard Total Bond Market Index I	\$	2,824,280	4.5%						
MFS Value Fund R4	\$	1,473,957	2.4%						
Vanguard Institutional Index I	\$	9,428,054	15.2%						
T Rowe Price Growth Stock Fund I	\$	4,613,370	7.4%						
Hartford Mid Cap HLS IA	\$	3,333,376	5.4%						
Oppenheimer Main Street Mid Cap Fund	\$	2,256,177	3.6%						
Vanguard Mid-Cap Value Index Fund	\$	244,665	0.4%						
Vanguard Extended Market Idx I	\$	3,529,421	5.7%						
Goldman Sachs Small/Mid Cap Growth	\$	1,603,001	2.6%						
Vanguard Developed Markets Index Instl	\$	1,313,982	2.1%						
Dodge & Cox International Stock	\$	1,575,195	2.5%						
Franklin Mutual Global Discovery Fund	\$	1,117,544	1.8%						
Vanguard Institutional Target Retirement Income Instl	\$	1,509,065	2.4%						
Vanguard Institutional Target Retirement 2015 Instl	\$	3,609,804	5.8%						
Vanguard Institutional Target Retirement 2020 Instl	\$	1,010,382	1.6%						
Vanguard Institutional Target Retirement 2025 Instl	\$	4,060,865	6.5%						
Vanguard Institutional Target Retirement 2030 Instl	\$	404,493	0.7%						
Vanguard Institutional Target Retirement 2035 Instl	\$	3,006,603	4.8%						
Vanguard Institutional Target Retirement 2040 Instl	\$	310,740	0.5%						
Vanguard Institutional Target Retirement 2045 Instl	\$	1,465,073	2.4%						
Vanguard Institutional Target Retirement 2050 Instl	\$	3,993	0.0%						
Vanguard Institutional Target Retirement 2055 Instl	\$	301,843	0.5%						
Vanguard Institutional Target Retirement 2060 Instl	\$	1,227	0.0%						
Vanguard Institutional Target Retirement 2065 Instl	\$	-	0.0%						
TD Ameritrade SDBA	\$	159,478	0.3%						
То	otal \$	62,189,084	100.0%						

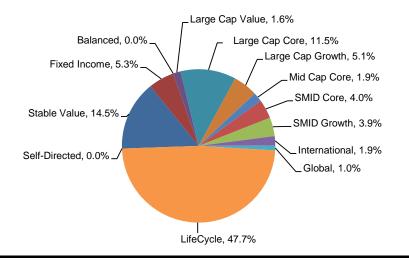
# Asset Allocation Summary: Nevada System of Higher Education



### Asset Allocation as of June 30, 2018

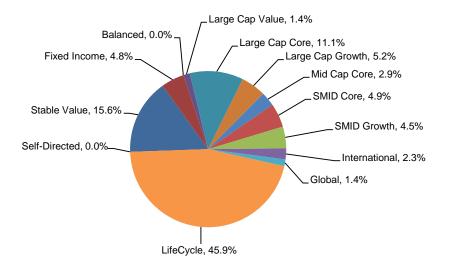
### Asset Allocation as of April 1, 2018





## Plan Contributions - 2nd Quarter 2018

### Plan Contributions - 1st Quarter 2018



### Plan Activity: Political Subdivision April 1, 2018 through June 30, 2018

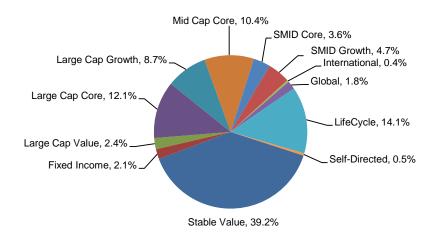
Funds	Beginning Balance April 1, 2018	Contributions	Interfund InterPlan Exchanges	Wit	hdrawals	Loan Repayments	Misc.	Fees	Investment Gain/Loss Icl. Dividends)	Ending Balance June 30, 2018
Voya Fixed Account	\$ 71,960,782	\$ 856,958	\$ (71,204)	\$	(1,893,934)	\$ -	\$ -	\$ (5,711)	\$ 449,092	\$ 71,295,982
Vanguard Total Bond Market Index I	\$ 3,830,978	\$ 58,724	\$ 31,517	\$	(54,342)	\$ -	\$ -	\$ (1,395)	\$ (6,253)	\$ 3,859,230
MFS Value Fund R4	\$ 4,361,538	\$ 75,422	\$ (78,770)	\$	(62,264)	\$ -	\$ -	\$ (1,322)	\$ (24,295)	\$ 4,270,309
Vanguard Institutional Index I	\$ 21,107,758	\$ 267,570	\$ (2,972)	\$	(155,513)	\$ -	\$ -	\$ (6,648)	\$ 721,802	\$ 21,931,997
T Rowe Price Growth Stock Fund I	\$ 14,755,156	\$ 187,551	\$ 115,790	\$	(130,716)	\$ -	\$ -	\$ (4,562)	\$ 869,515	\$ 15,792,735
Hartford Mid Cap HLS IA	\$ 10,228,858	\$ 133,572	\$ 144,416	\$	(122,755)	\$ -	\$ -	\$ (3,166)	\$ 403,523	\$ 10,784,447
Oppenheimer Main Street Mid Cap Fund	\$ 7,448,981	\$ 119,896	\$ 37,976	\$	(91,544)	\$ -	\$ -	\$ (2,311)	\$ 342,070	\$ 7,855,068
Vanguard Mid-Cap Value Index Fund - Admiral Shares	\$ 350,925	\$ 10,699	\$ (43,036)	\$	-	\$ -	\$ -	\$ (183)	\$ 5,086	\$ 323,491
Vanguard Extended Market Idx I	\$ 5,974,826	\$ 141,827	\$ 164,806	\$	(93,597)	\$ -	\$ -	\$ (2,094)	\$ 355,678	\$ 6,541,447
Goldman Sachs Small/Mid Cap Growth	\$ 2,911,706	\$ 52,303	\$ 223,598	\$	(28,589)	\$ -	\$ -	\$ (944)	\$ 86,608	\$ 3,244,682
Vanguard Developed Markets Index Instl	\$ 5,218,666	\$ 141,398	\$ 134,665	\$	(63,384)	\$ -	\$ -	\$ (1,763)	\$ (87,234)	\$ 5,342,350
Dodge & Cox International Stock	\$ 838,992	\$ 27,037	\$ (72,971)	\$	(10,727)	\$ -	\$ -	\$ (244)	\$ (38,690)	\$ 743,397
Franklin Mutual Global Discovery Fund	\$ 3,187,041	\$ 52,415	\$ (64,177)	\$	(28,508)	\$ -	\$ -	\$ (916)	\$ 39,790	\$ 3,185,645
Vanguard Institutional Target Retirement Income Instl	\$ 2,576,967	\$ 21,336	\$ (33,435)	\$	(18,850)	\$ -	\$ -	\$ (675)	\$ 12,058	\$ 2,557,401
Vanguard Institutional Target Retirement 2015 Instl	\$ 2,447,150	\$ 70,777	\$ 851	\$	(22,961)	\$ -	\$ -	\$ (967)	\$ 12,199	\$ 2,507,049
Vanguard Institutional Target Retirement 2020 Instl	\$ 1,885,048	\$ 13,743	\$ (26,465)	\$	(12,103)	\$ -	\$ -	\$ (460)	\$ 11,956	\$ 1,871,717
Vanguard Institutional Target Retirement 2025 Instl	\$ 5,569,933	\$ 201,627	\$ (7,195)	\$	(156,975)	\$ -	\$ -	\$ (2,311)	\$ 39,066	\$ 5,644,144
Vanguard Institutional Target Retirement 2030 Instl	\$ 1,762,325	\$ 36,472	\$ (96,433)	\$	(10,906)	\$ -	\$ -	\$ (495)	\$ 13,171	\$ 1,704,134
Vanguard Institutional Target Retirement 2035 Instl	\$ 5,500,588	\$ 333,634	\$ (3,236)	\$	(106,540)	\$ -	\$ -	\$ (2,971)	\$ 46,429	\$ 5,767,904
Vanguard Institutional Target Retirement 2040 Instl	\$ 621,117	\$ 24,570	\$ (35,888)	\$	(7,170)	\$ -	\$ -	\$ (231)	\$ 5,723	\$ 608,121
Vanguard Institutional Target Retirement 2045 Instl	\$ 4,047,913	\$ 258,168	\$ (32,171)	\$	(22,530)	\$ -	\$ -	\$ (2,642)	\$ 38,714	\$ 4,287,451
Vanguard Institutional Target Retirement 2050 Instl	\$ 116,058	\$ 29,497	\$ 25,050	\$	(79)	\$ -	\$ -	\$ (70)	\$ 772	\$ 171,228
Vanguard Institutional Target Retirement 2055 Instl	\$ 414,984	\$ 83,959	\$ -	\$	(2,155)	\$ -	\$ -	\$ (481)	\$ 3,637	\$ 499,943
Vanguard Institutional Target Retirement 2060 Instl	\$ 9,079	\$ 3,667	\$ -	\$	-	\$ -	\$ -	\$ (10)	\$ 49	\$ 12,784
Vanguard Institutional Target Retirement 2065 Instl	\$ 10,920	\$ 313	\$ -	\$	-	\$ -	\$ -	\$ (7)	\$ 103	\$ 11,330
TD Ameritrade SDBA	\$ 1,059,809	\$-	\$ (255,001)	\$	-	\$ -	\$ -	\$ -	\$ 60,201	\$ 865,009
Total	\$ 178,198,097	\$ 3,203,135	\$ 55,714	\$	(3,096,140)	\$ -	\$ (42,580)	\$ (42,580)	\$ 3,360,770	\$ 181,678,998

\*Fees: \$ \$ 42,579.53 Admin Fees; Asset Based Fees; Morningstar Fees

42,579.53

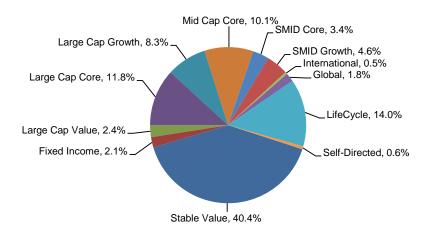
<b>Asset Allocation Summary:</b>	<b>Political Subdivision</b>
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		June 30, 2018						
Fund		Assets	% of Total Assets					
Voya Fixed Account	5	5 71,295,982	39.2%					
Vanguard Total Bond Market Index I	5	3,859,230	2.1%					
MFS Value Fund R4	S	\$ 4,270,309	2.4%					
Vanguard Institutional Index I	5	5 21,931,997	12.1%					
T Rowe Price Growth Stock Fund I	5	5 15,792,735	8.7%					
Hartford Mid Cap HLS IA	5	6 10,784,447	5.9%					
Oppenheimer Main Street Mid Cap Fund	5	5 7,855,068	4.3%					
Vanguard Mid-Cap Value Index Fund - Admiral Shares	S	323,491	0.2%					
Vanguard Extended Market Idx I	5	6,541,447	3.6%					
Goldman Sachs Small/Mid Cap Growth	5	3,244,682	1.8%					
Vanguard Developed Markets Index Instl	5	5,342,350	2.9%					
Dodge & Cox International Stock	5	5 743,397	0.4%					
Franklin Mutual Global Discovery Fund	5	3,185,645	1.8%					
Vanguard Institutional Target Retirement Income Instl	5	2,557,401	1.4%					
Vanguard Institutional Target Retirement 2015 Instl	5	5 2,507,049	1.4%					
Vanguard Institutional Target Retirement 2020 Instl	5	5 1,871,717	1.0%					
Vanguard Institutional Target Retirement 2025 Instl	5	5,644,144	3.1%					
Vanguard Institutional Target Retirement 2030 Instl	5	5 1,704,134	0.9%					
Vanguard Institutional Target Retirement 2035 Instl	5	5,767,904	3.2%					
Vanguard Institutional Target Retirement 2040 Instl	5	608,121	0.3%					
Vanguard Institutional Target Retirement 2045 Instl	5	4,287,451	2.4%					
Vanguard Institutional Target Retirement 2050 Instl	5	5 171,228	0.1%					
Vanguard Institutional Target Retirement 2055 Instl	5	499,943	0.3%					
Vanguard Institutional Target Retirement 2060 Instl	5	5 12,784	0.0%					
Vanguard Institutional Target Retirement 2065 Instl	5	5 11,330	0.0%					
TD Ameritrade SDBA	S	865,009	0.5%					
Τ	otal	181,678,998	100.0%					

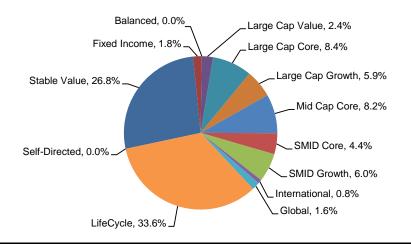


## Asset Allocation as of June 30, 2018

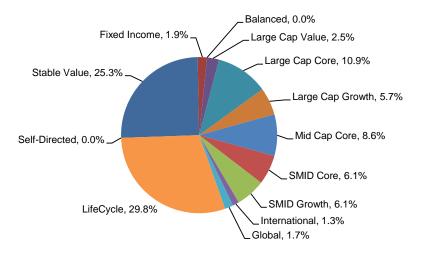
# Asset Allocation as of April 1, 2018



# Plan Contributions - 2nd Quarter 2018



# Plan Contributions - 1st Quarter 2018



# **Summary of Loan Activity**

As of June 30, 2018

Loans Issued*	Loans Paid in Full*	Outstanding Balance	Principal Paid*	Interest Paid*
763	169	\$3,801,700	\$132,099	\$15,599

\*Total loans since inception.

# **Summary of Roth Accounts**

	As of Marc	h 31, 2018	As of June 30, 2018		
	Number of Accounts	Total Balance	Number of Accounts	Total Balance	
State	1362	\$6,852,583	1453	\$7,302,838	
NSHE	142	\$1,475,989	144	\$1,714,905	
Poltical Sub Divisions	129	\$846,935	152	\$932,995	
Total	1633	\$9,175,507	1749	\$9,950,737	

FICA Plan Activity	All	State	Pol. Sub- Division	NSHE
Number of Participants Actively Contributing:	6,458	189	562	5,707
Number of Participants with Account Balance:	15,028	1,098	1,760	12,170
Average Account Balance:	\$1,426	\$1,352	\$1,201	\$1,727
Opening Balance as of 4/1/2018:	\$37,695,951	\$1,583,047	\$2,053,559	\$34,059,346
Closing Balance as of 6/30/2018:	\$38,674,805	\$1,597,811	\$2,105,510	\$34,971,484

# Number of Participants Invested by Fund: Total Plan As of June 30, 2018

Fund	# of Participants	# of One-Funders
Voya Fixed Account	5,938	2,283
Vanguard Total Bond Market Index I	1,313	28
MFS Value Fund R4	1,763	13
Vanguard Institutional Index I	4,215	127
T Rowe Price Growth Stock Fund I	3,240	102
Hartford Mid Cap HLS IA	2,915	19
Oppenheimer Main Street Mid Cap Fund	2,174	5
Vanguard Mid-Cap Value Index Fund	396	1
Vanguard Extended Market Idx I	1,689	10
Goldman Sachs Small/Mid Cap Growth	1,177	6
Vanguard Developed Markets Index Instl	2,110	5
Dodge & Cox International Stock	844	10
Franklin Mutual Global Discovery Fund	1446	5
Vanguard Institutional Target Retirement Income Instl	605	123
Vanguard Institutional Target Retirement 2015 Instl	1,379	739
Vanguard Institutional Target Retirement 2020 Instl	364	35
Vanguard Institutional Target Retirement 2025 Instl	1,795	1011
Vanguard Institutional Target Retirement 2030 Instl	446	85
Vanguard Institutional Target Retirement 2035 Instl	2,537	1638
Vanguard Institutional Target Retirement 2040 Instl	316	110
Vanguard Institutional Target Retirement 2045 Instl	1,956	1486
Vanguard Institutional Target Retirement 2050 Instl	211	129
Vanguard Institutional Target Retirement 2055 Instl	633	505
Vanguard Institutional Target Retirement 2060 Instl	59	51
Vanguard Institutional Target Retirement 2065 Instl	14	6
TD Ameritrade SDBA	85	0

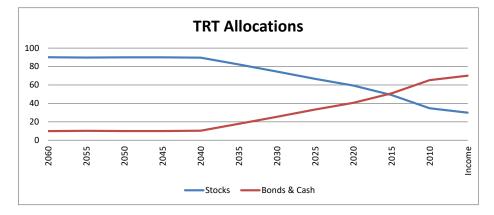
Number of Funds	Number of Participants	Percent
One	8,532	55.77%
Two	1,506	9.84%
Three	1027	6.71%
Four	1116	7.29%
Five	1,155	7.55%
Six	868	5.67%
Seven	388	2.54%
Eight	202	1.32%
Nine	235	1.54%
Ten +	270	1.76%
TOTAL	15,299	100.00%

# Investment Diversification as of June 30, 2018

Average number of funds being used in the Plan: 2.60

Fund	Total Stock Market Index Fund	Total International Stock Index Fund	Total Bond Market Index II Fund	Total Intl Bond Market Index Fund	ST Inflation- Protected Securities Fund	Stocks	Bonds & Cash
2065	53.9%	36.1%	7.0%	3.0%	0.0%	90.00%	10.00%
2060	54.1%	35.8%	7.2%	2.9%	0.0%	89.90%	10.10%
2055	54.0%	35.8%	7.2%	3.0%	0.0%	89.8%	10.2%
2050	54.2%	35.7%	7.1%	3.0%	0.0%	89.9%	10.1%
2045	54.2%	35.6%	7.2%	3.0%	0.0%	89.8%	10.2%
2040	51.4%	33.7%	10.5%	4.4%	0.0%	85.1%	14.9%
2035	46.9%	30.6%	15.8%	6.7%	0.0%	77.5%	22.5%
2030	42.4%	27.6%	21.1%	8.9%	0.0%	70.0%	30.0%
2025	37.9%	24.6%	26.3%	11.2%	0.0%	62.5%	37.5%
2020	32.5%	20.9%	29.2%	12.4%	5.0%	53.4%	46.6%
2015	24.6%	16.0%	33.1%	14.2%	12.1%	40.6%	59.4%
Income	17.9%	11.7%	37.5%	16.0%	16.9%	29.6%	70.4%

## Vanguard Target Date Retirement Funds Estimated allocations



# **Voya General Fixed Account**

	US Gov/Agency	Mortgage- Backed Securities	Corporate Bonds	Asset-Backed Securities	CMBS	Cash / Equivalents	Foreign Securities	Other *	Total
Voya Fixed Account	5.00%	25.00%	40.00%	3.00%	5.00%	0.00%	20.00%	2.00%	100%
Barcays Aggregated Bond Index	42.20%	29.00%	23.10%	0.50%	2.00%	0.00%	3.10%	0.00%	100%

\*Other for Voya includes Derivatives, LPs & Policy Loans and Mortgage Loans.

Quality Ratings	Voya	BC Agg
ΑΑΑ	18.00%	71.70%
AA	6.00%	4.60%
А	29.00%	11.80%
BBB	40.00%	11.90%
BB and Below	7.00%	0.00%

Voya Financia	al Insuranc Ratings	e Company
Fitch	А	Strong
S&P	А	Strong
Moody's	A2	Good
A.M. Best	А	Excellent

457 Plans Minimum Crediting Rate Per Contract					
Year 1:	3.50%				
Year 2:	3.15%				
Year 3:	2.75%				
Year 4:	2.50%				
Year 5:	2.50%				

FICA Alternative Plans Minimum Credit Rate Per Contract				
2015	2.50%			
2016	2.25%			
2017	1.50%			
2018	1.00%			
2019	Prevailing			

\*Effective 12/19/2014 the separate account funds were transferred to Voya General Account.

As of June 30, 2018

	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
Large Cap Domestic Equity Funds						
MFS Value Fund R4	-0.61	-3.60	4.03	8.36	10.66	0.59
Russell 1000 Value Index	1.18	-1.69	6.77	8.26	10.34	
Excess Return	-1.79	-1.91	-2.74	0.10	0.32	
IM U.S. Large Cap Value Equity (MF) Median	1.30	-1.45	8.20	8.09	9.99	
MFS Value Fund R4 Rank	95	97	95	42	27	
T.Rowe Price Growth Stock I	5.91	10.00	23.10	15.52	17.62	0.52
Russell 1000 Growth Index	5.76	7.25	22.51	14.98	16.36	
Excess Return	0.15	2.75	0.59	0.54	1.26	
IM U.S. Large Cap Growth Equity (MF) Median	5.74	8.87	22.27	13.49	15.46	
T.Rowe Price Growth Stock I Rank	45	37	42	14	12	
Vanguard Institutional Index	3.42	2.63	14.33	11.90	13.39	0.04
S&P 500	3.43	2.65	14.37	11.93	13.42	
Excess Return	-0.01	-0.02	-0.04	-0.03	-0.03	
IM U.S. Large Cap Core Equity (MF) Median	2.80	1.68	13.02	10.20	12.06	
Vanguard Institutional Index Rank	26	28	32	13	14	
Mid-Cap Domestic Equity Funds						
	4.00	-0.01	9.46	0.25	12.20	0.07
Vanguard Mid-Cap Value Index CRSP U.S. Mid Cap Value TR Index	1.38 1.39	-0.01	9.46	9.35 9.40	12.20	0.07
Excess Return	-0.01	-0.02	-0.05	-0.05	-0.05	
IM U.S. Mid Cap Value Equity (MF) Median	1.89	-0.02	7.25	7.15	9.93	
Vanguard Mid-Cap Value Index Rank	55	-0.10	32	19	6	
о , ,						0.70
Hartford Mid Cap HLS IA	3.95 2.82	7.51 2.35	19.41 12.33	12.96 9.58	15.12 12.22	0.70
Russell Midcap Index Excess Return	1.13	2.35 5.16	7.08	3.38	2.90	
	2.28	5.16 1.10	10.11	7.79	10.33	
IM U.S. Mid Cap Core Equity (MF) Median Hartford Mid Cap HLS IA Rank	2.28	1.10	4	4	10.33	
	ĬŎ	4	4	4	2	

Returns for periods greater than one year are annualized. Returns are expressed as percentages.

As of June 30, 2018

	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
CMID Domostic Equity Funds						
SMID Domestic Equity Funds						
Goldman Sachs Small/Mid Cap Growth	3.00	7.05	18.76	7.44	11.90	1.27
Russell 2500 Growth Index	5.53	8.04	21.53	10.86	13.87	
Excess Return	-2.53	-0.99	-2.77	-3.42	-1.97	
IM U.S. SMID Cap Growth Equity (MF) Median	8.26	11.87	23.79	10.99	13.14	
Goldman Sachs Small/Mid Cap Growth Rank	99	89	79	90	71	
Oppenheimer Main Street Mid Cap Fund	4.56	3.97	10.96	7.29	10.78	0.86
Russell Midcap Index	2.82	2.35	12.33	9.58	12.22	
Excess Return	1.74	1.62	-1.37	-2.29	-1.44	
IM U.S. Mid Cap Core Equity (MF) Median	2.28	1.10	10.11	7.79	10.33	
Oppenheimer Main Street Mid Cap Fund Rank	12	12	43	59	42	
Vanguard Extended Market Idx I	5.99	6.15	16.79	10.36	12.65	0.06
S&P Completion Index	5.94	6.07	16.72	10.23	12.53	
Excess Return	0.05	0.08	0.07	0.13	0.12	
IM U.S. SMID Cap Core Equity (MF) Median	5.81	4.67	13.93	9.56	11.28	
Vanguard Extended Market Idx I Rank	46	32	24	32	17	
International Equity Europe						
International Equity Funds						
Vanguard Developed Markets Index Instl	-1.59	-2.65	7.33	5.70	6.97	0.06
Vanguard Developed Market Policy Index	-1.43	-2.75	7.54	5.92	7.22	
Excess Return	-0.16	0.10	-0.21	-0.22	-0.25	
IM International Equity (MF) Median	-3.36	-3.73	6.81	5.02	6.03	
Vanguard Developed Markets Index Instl Rank	26	33	46	41	34	



As of June 30, 2018

	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
International Equity w/ EM Funds						
Dodge & Cox International Stock	-5.12	-7.15	0.50	2.06	5.78	0.63
MSCI AC World ex USA (Net)	-2.61	-3.77	7.28	5.07	5.99	
Excess Return	-2.51	-3.38	-6.78	-3.01	-0.21	
MSCI EAFE (Net)	-1.24	-2.75	6.84	4.90	6.44	
Excess Return	-3.88	-4.40	-6.34	-2.84	-0.66	
IM International Core Equity (MF) Median	-2.34	-3.24	6.23	4.39	6.14	
Dodge & Cox International Stock Rank	95	100	99	96	62	
Global Equity Funds						
Franklin Mutual Global Discovery	1.20	-1.60	1.16	4.44	6.89	1.21
MSCI AC World Index (Net)	0.53	-0.43	10.73	8.19	9.41	
Excess Return	0.67	-1.17	-9.57	-3.75	-2.52	
MSCI World Value (Net)	-0.20	-3.39	5.56	6.46	7.74	
Excess Return	1.40	1.79	-4.40	-2.02	-0.85	
IM Global Core Equity (MF) Median	0.19	-0.41	9.96	7.45	9.27	
Franklin Mutual Global Discovery Rank	20	76	99	96	91	
Stable Value Fund						
Voya Fixed Account	0.62	1.23	2.63	2.97	2.80	
Hueler Stable Value	0.55	1.07	2.11	1.90	1.83	
Excess Return	0.07	0.16	0.52	1.07	0.97	



As of June 30, 2018

	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
Demostic Final Income Funde						
Domestic Fixed Income Funds						
Vanguard Total Bond Market Index	-0.17	-1.64	-0.52	1.68	2.21	0.04
Vanguard Total Bond Policy Index	-0.20	-1.67	-0.45	1.74	2.26	
Excess Return	0.03	0.03	-0.07	-0.06	-0.05	
IM U.S. Broad Market Core Fixed Income (MF) Median	-0.25	-1.73	-0.59	1.60	2.14	
Vanguard Total Bond Market Index Rank	33	38	44	42	44	
Target Date Funds						
Vanguard Target Retirement Income Instl	0.45	-0.07	4.00	4.19	4.79	0.09
Vanguard Target Income Composite Index	0.50	-0.03	4.20	4.33	4.99	
Excess Return	-0.05	-0.04	-0.20	-0.14	-0.20	
IM Mixed-Asset Target 2010 (MF) Median	0.37	-0.40	4.31	4.33	5.19	
Vanguard Target Retirement Income Instl Rank	34	19	65	57	78	
Vanguard Target Retirement 2015 Instl	0.55	0.05	5.48	5.19	6.43	0.09
Vanguard Target 2015 Composite Index	0.64	0.07	5.65	5.33	6.64	
Excess Return	-0.09	-0.02	-0.17	-0.14	-0.21	
IM Mixed-Asset Target 2015 (MF) Median	0.52	-0.27	4.99	4.84	5.95	
Vanguard Target Retirement 2015 Instl Rank	46	22	28	35	23	
Vanguard Target Retirement 2020 Instl	0.63	0.04	6.71	6.11	7.45	0.09
Vanguard Target 2020 Composite Index	0.77	0.14	6.98	6.29	7.68	
Excess Return	-0.14	-0.10	-0.27	-0.18	-0.23	
IM Mixed-Asset Target 2020 (MF) Median	0.58	-0.24	5.55	5.08	6.02	
Vanguard Target Retirement 2020 Instl Rank	46	30	12	7	8	
Vanguard Target Retirement 2025 Instl	0.70	0.13	7.63	6.72	8.11	0.09
Vanguard Target 2025 Composite Index	0.86	0.19	7.94	6.90	8.35	
Excess Return	-0.16	-0.06	-0.31	-0.18	-0.24	
IM Mixed-Asset Target 2025 (MF) Median	0.68	-0.09	6.71	5.90	6.84	
Vanguard Target Retirement 2025 Instl Rank	46	38	18	12	11	

Returns for periods greater than one year are annualized. Returns are expressed as percentages.

As of June 30, 2018

				1	1	1
	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
Vanguard Target Retirement 2030 Instl	0.78	0.22	8.51	7.21	8.71	0.09
Vanguard Target 2030 Composite Index	0.98	0.30	8.82	7.42	8.96	
Excess Return	-0.20	-0.08	-0.31	-0.21	-0.25	
IM Mixed-Asset Target 2030 (MF) Median	0.85	0.00	7.82	6.42	7.52	
Vanguard Target Retirement 2030 Instl Rank	57	39	28	21	12	
Vanguard Target Retirement 2035 Instl	0.86	0.30	9.33	7.70	9.31	0.09
Vanguard Target 2035 Composite Index	1.07	0.38	9.67	7.92	9.56	
Excess Return	-0.21	-0.08	-0.34	-0.22	-0.25	
IM Mixed-Asset Target 2035 (MF) Median	0.91	0.33	9.09	7.14	8.27	
Vanguard Target Retirement 2035 Instl Rank	53	52	38	30	18	
Vanguard Target Retirement 2040 Instl	0.94	0.38	10.15	8.17	9.79	0.09
Vanguard Target 2040 Composite Index	1.15	0.44	10.51	8.41	10.07	
Excess Return	-0.21	-0.06	-0.36	-0.24	-0.27	
IM Mixed-Asset Target 2040 (MF) Median	1.06	0.35	9.52	7.32	8.68	
Vanguard Target Retirement 2040 Instl Rank	62	48	32	24	11	
Vanguard Target Retirement 2045 Instl	0.97	0.42	10.62	8.45	9.95	0.09
Vanguard Target 2045 Composite Index	1.20	0.49	10.93	8.68	10.24	
Excess Return	-0.23	-0.07	-0.31	-0.23	-0.29	
IM Mixed-Asset Target 2045 (MF) Median	1.04	0.49	10.09	7.88	9.06	
Vanguard Target Retirement 2045 Instl Rank	59	56	31	27	14	
Vanguard Target Retirement 2050 Instl	0.97	0.42	10.58	8.44	9.95	0.09
Vanguard Target 2050 Composite Index	1.20	0.49	10.93	8.68	10.24	
Excess Return	-0.23	-0.07	-0.35	-0.24	-0.29	
IM Mixed-Asset Target 2050 (MF) Median	1.15	0.46	10.18	7.74	9.16	
Vanguard Target Retirement 2050 Instl Rank	60	51	39	25	14	
Vanguard Target Retirement 2055 Instl	0.97	0.42	10.59	8.44	9.92	0.09
Vanguard Target 2055 Composite Index	1.20	0.49	10.93	8.68	10.24	
Excess Return	-0.23	-0.07	-0.34	-0.24	-0.32	
IM Mixed-Asset Target 2055 (MF) Median	1.12	0.51	10.39	7.97	9.33	
Vanguard Target Retirement 2055 Instl Rank	59	56	45	28	22	

Returns for periods greater than one year are annualized. Returns are expressed as percentages.

As of June 30, 2018

		Year				
		To	1	3	5	Expense
	Quarter	Date	Year	Years	Years	Ratio
Vanguard Target Retirement 2060 Instl	0.93	0.38	10.49	8.40	9.92	0.09
Vanguard Target 2060 Composite Index	1.20	0.49	10.93	8.68	10.24	
Excess Return	-0.27	-0.11	-0.44	-0.28	-0.32	
IM Mixed-Asset Target 2055 (MF) Median	1.12	0.51	10.39	7.97	9.33	
Vanguard Target Retirement 2060 Instl Rank	65	59	49	29	22	
Vanguard Target Retirement 2065 Instl	0.97	0.51	N/A	N/A	N/A	0.09
Vanguard Target 2060 Composite Index	1.20	0.49	10.93	8.68	10.24	
Excess Return	-0.23	0.02	N/A	N/A	N/A	
IM Mixed-Asset Target 2055 (MF) Median	1.12	0.51	10.39	7.97	9.33	
Vanguard Target Retirement 2065 Instl Rank	59	51	N/A	N/A	N/A	



Large Cap Domestic Equity



# MFS Value;R4 (MEIJX)

As of June 30, 2018

Fund Informatio	on	Performance Summary (net of fees)						
Product Name :	MFS Value;R4 (MEIJX)		1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Fund Family :	MFS Investment Management	MFS Value;R4 (MEIJX)	-0.61	-3.60	4.03	8.36	10.66	8.65
Ticker :	MEIJX	Russell 1000 Value Index	1.18	-1.69	6.77	8.26	10.34	8.49
Peer Group :	IM U.S. Large Cap Value Equity (MF)	Excess Return	-1.79	-1.91	-2.74	0.10	0.32	0.16
Design and the second								

r cer oroup.	in 0.0. Large oup value Equity (in )
Benchmark :	Russell 1000 Value Index
Fund Inception :	04/01/2005
Portfolio Manager :	Chitkara/Gorham
Total Assets :	\$3,158 Million
Total Assets Date :	06/30/2018
Gross Expense :	0.59%
Net Expense :	0.59%
Turnover :	14%

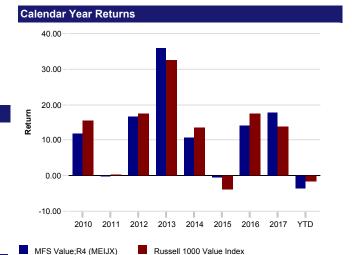
Fund Characteristics As of 05/31/2018				
Total Securities	94			
Avg. Market Cap	\$110,853 Million			
P/E	22.36			
P/B	4.19			
Div. Yield	2.48%			

P/E	22.36	
P/B	4.19	
Div. Yield	2.48%	
Annual EPS	15.74	
5Yr EPS	7.70	
3Yr EPS Growth	3.51	

Portfolio Statistics - 36 Months						
	Portfolio	Benchmark	Peer Median			
Standard Deviation	10.14	10.12	11.79			
Beta	0.97	1.00	0.89			
Sharpe Ratio	0.78	0.77	1.09			
Information Ratio	0.04	N/A	0.65			
Tracking Error	2.41	0.00	7.72			
Consistency	52.78	0.00	55.56			
Up Market Capture	97.21	100.00	108.92			
Down Market Capture	93.48	100.00	61.20			
R-Squared	0.94	1.00	0.57			

## Fund Objective

The Fund seeks capital appreciation and reasonable income. The Fund invests, under normal market conditions, at least 65% of its net assets in equity securities of companies which the adviser believes are undervalued in the market relative to their long term potential.



Health Care

Industrials

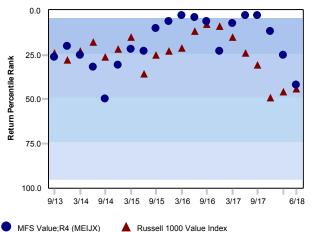
Financials

0.0%

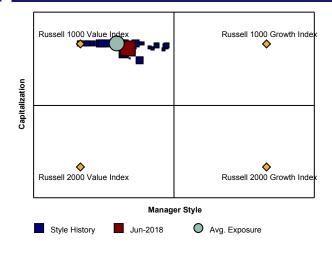
Consumer Staples

10.0%

Rolling Percentile Ranking (Return)- 36 Months



#### Style Map - 12 Months



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	Portfolio	Benchmark	Peer Median	Sector/Quality Allocation (Holdings based)
Standard Deviation	10.14	10.12	11.79	
Beta	0.97	1.00	0.89	Telecommunication Services 0.7%
Sharpe Ratio	0.78	0.77	1.09	
Information Ratio	0.04	N/A	0.65	Materials 2.2%
Tracking Error	2.41	0.00	7.72	Utilities 2.7%
Consistency	52.78	0.00	55.56	
Up Market Capture	97.21	100.00	108.92	Information Technology 3.6%
Down Market Capture	93.48	100.00	61.20	Consumer Discretionary 4.8%
R-Squared	0.94	1.00	0.57	
				Energy 5.5%
				0

13.0%

13.6%

21.0%

20.0%

32.0%

40.0%

30.0%

Т

T Rowe Price Gro Stk;I (PRUFX)

As of June 30, 2018

Fund Information	1
Product Name :	T Rowe Price Gro Stk;I (PRUFX)
Fund Family :	T. Rowe Price Associates Inc
Ticker :	PRUFX
Peer Group :	IM U.S. Large Cap Growth Equity (MF)
Benchmark :	Russell 1000 Growth Index
Fund Inception :	08/28/2015
Portfolio Manager :	Joseph B. Fath
Total Assets :	\$11,415 Million
Total Assets Date :	06/30/2018
Gross Expense :	0.52%
Net Expense :	0.52%
Turnover :	51%

#### Fund Characteristics As of 03/31/2018 86 **Total Securities** Avg. Market Cap \$222,949 Million P/E 37.34 P/B 10.46 Div. Yield 1.54% 25.19

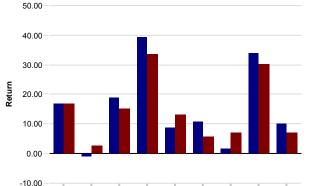
Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	12.67	10.91	11.79				
Beta	1.10	1.00	1.04				
Sharpe Ratio	1.17	1.28	1.09				
Information Ratio	0.20	N/A	-0.44				
Tracking Error	4.20	0.00	3.39				
Consistency	58.33	0.00	47.22				
Up Market Capture	108.31	100.00	98.24				
Down Market Capture	112.72	100.00	112.04				
R-Squared	0.90	1.00	0.92				

#### Fund Objective

The Fund seeks long-term capital growth through investments in stocks. The Fund will normally invest at least 80% of its net assets in the common stocks of a diversified group of growth companies. While it may invest in any market capitalization, it generally seeks investments in stocks of large-capitalization companies.

### Performance Summary (net of fees) 1 Quarter

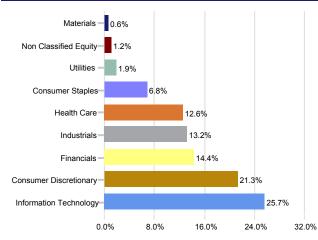
Calendar Year Returns	
Excess Return	0.15
Russell 1000 Growth Index	5.76
Excess Return	0.15
Russell 1000 Growth Index	5.76
T Rowe Price Gro Stk;I (PRUFX)	5.91



2010 2011 2012 2013 2014 2015 2016 2017 YTD



### Sector/Quality Allocation (Holdings based)



#### 14.98 0.59 0.72 1.37 Rolling Percentile Ranking (Return)- 36 Months

3 Years

15.70

14.98

0.72

5 Years

17.73

16.36

1.37

16.36

10 Years

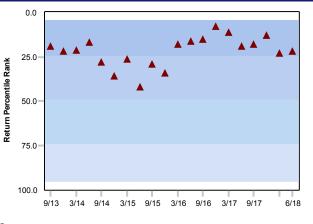
12.26

11.83

0.43

11.83

0.43



T Rowe Price Gro Stk;I (PRUFX) A Russell 1000 Growth Index

#### Style Map - 12 Months

CYTD

10.00

7.25

2.75

7.25

2.75

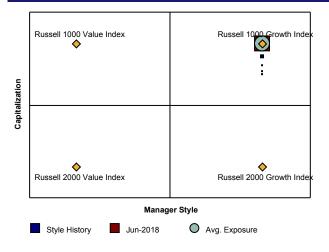
1 Year

23.10

22.51

0.59

22.51



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Vanguard Instl Indx;Inst (VINIX)

As of June 30, 2018 Fund Information

Product Name : Fund Family : Ticker : Peer Group :

1	Performance Summary (net of fe	ees)					
Vanguard Instl Indx;Inst (VINIX)		1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard Group Inc	Vanguard Instl Indx;Inst (VINIX)	3.42	2.63	14.33	11.90	13.39	10.17
VINIX	S&P 500	3.43	2.65	14.37	11.93	13.42	10.17
IM U.S. Large Cap Core Equity (MF)	Excess Return	-0.01	-0.02	-0.04	-0.03	-0.03	0.00
S&D 500							

Benchmark :	S&P 500
Fund Inception :	07/31/1990
Portfolio Manager :	Butler/Louie
Total Assets :	\$127,702 Million
Total Assets Date :	05/31/2018
Gross Expense :	0.04%
Net Expense :	0.04%
Turnover :	5%

Fund Characteristics As of 05/31/2018			
Total Securities	515		
Avg. Market Cap	\$203,579 Million		
P/E	26.86		
P/B	6.84		
Div. Yield	2.39%		
Annual EPS	21.33		
5Yr EPS	12.77		
3Yr EPS Growth	11.04		

Portfolio Statistics - 36 Months						
	Portfolio	Benchmark	Peer Median			
Standard Deviation	10.02	10.02	10.12			
Beta	1.00	1.00	1.00			
Sharpe Ratio	1.11	1.12	0.95			
Information Ratio	-2.76	N/A	-0.66			
Tracking Error	0.01	0.00	2.37			
Consistency	22.22	0.00	44.44			
Up Market Capture	99.89	100.00	94.20			
Down Market Capture	100.10	100.00	105.42			
R-Squared	1.00	1.00	0.95			

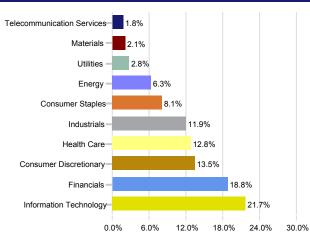
## Fund Objective

The Fund seeks to track the performance of a benchmark index that measures the investment return of large-capitalization stocks. The Fund employs an indexing investment approach designed to track the performance of the Standard & Poors 500 Index by investing all of its assets in the stocks that make up the Index.

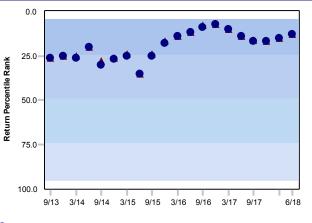




#### Sector/Quality Allocation (Holdings based)

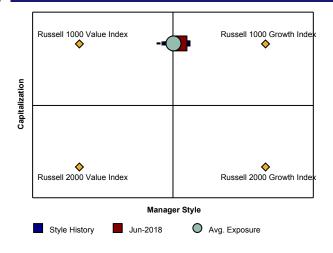


#### Rolling Percentile Ranking (Return)- 36 Months



#### Vanguard Instl Indx;Inst (VINIX) 💧 S&P 500

#### Style Map - 12 Months



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# Page 10

Mid-Cap Domestic Equity



Excess Return

Vanguard MC Val Idx;Adm (VMVAX)

As of June 30, 2018

Fund Information	1
Product Name :	Vanguard MC Val Idx;Adm (VMVAX)
Fund Family :	Vanguard Group Inc
Ticker :	VMVAX
Peer Group :	IM U.S. Mid Cap Value Equity (MF)
Benchmark :	CRSP U.S. Mid Cap Value TR Index
Fund Inception :	09/27/2011
Portfolio Manager :	Butler/Johnson
Total Assets :	\$8,442 Million
Total Assets Date :	05/31/2018
Gross Expense :	0.07%
Net Expense :	0.07%
Turnover :	17%

Fund Characteristics As of 05/31/2018			
Total Securities	210		
Avg. Market Cap	\$14,505 Million		
P/E	23.15		
P/B	3.25		
Div. Yield	2.57%		
Annual EPS	22.53		
5Yr EPS	4.86		
3Yr EPS Growth	3.93		

Portfolio Statistics - 36 Months						
		Portfolio	Benchmark	Peer Median		
	Standard Deviation	10.26	10.27	11.06		
	Beta	1.00	1.00	1.01		
	Sharpe Ratio	0.86	0.87	0.62		
	Information Ratio	-1.32	N/A	-0.61		
	Tracking Error	0.04	0.00	3.41		
	Consistency	33.33	0.00	41.67		
	Up Market Capture	99.71	100.00	93.90		
	Down Market Capture	99.95	100.00	107.96		
	R-Squared	1.00	1.00	0.92		

#### Fund Objective

The Fund seeks to track the performance of a benchmark index that measures the investment return of mid-capitalization value stocks. The Fund employs an indexing investment approach designed to track the performance of the CRSP US Mid Cap Value Index by investing all of its assets in the stocks that make up the Index.

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard MC Val Idx;Adm (VMVAX)	1.38	-0.01	9.46	9.35	12.20	N/A
CRSP U.S. Mid Cap Value TR Index	1.39	0.01	9.51	9.40	12.25	11.48

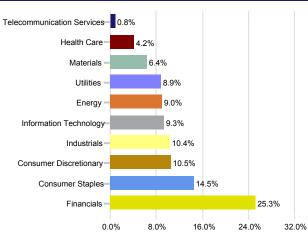
-0.02

-0.01



Vanguard MC Val Idx;Adm (VMVAX) CRSP U.S. Mid Cap Value TR Index

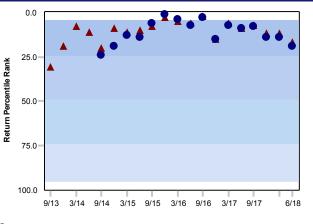
### Sector/Quality Allocation (Holdings based)



Rolling Percentile Ranking (Return)- 36 Months

-0.05

-0.05

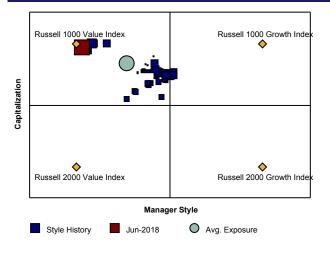


N/A

• Vanguard MC Val Idx;Adm (VMVAX) CRSP U.S. Mid Cap Value TR Index

#### Style Map - 12 Months

-0.05



X Segal Marco Advisors

# Hartfd:MidCap HLS;IA

As of June 30, 2018

Fund Information	1
Product Name :	Hartfd:MidCap HLS;IA
Fund Family :	Hartford Funds Management Company LLC
Ticker :	
Peer Group :	IM U.S. Mid Cap Core Equity (MF)
Benchmark :	Russell Midcap Index
Fund Inception :	07/14/1997
Portfolio Manager :	Team Managed
Total Assets :	-
Total Assets Date :	05/31/2018
Gross Expense :	0.70%
Net Expense :	0.70%
Turnover :	36%

### Fund Characteristics As of 04/30/2018

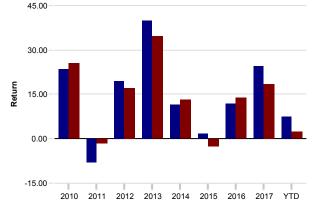
Total Securities	107
Avg. Market Cap	\$9,090 Million
P/E	33.94
P/B	6.36
Div. Yield	1.30%
Annual EPS	20.96
5Yr EPS	12.43
3Yr EPS Growth	5.92

Portfolio Statistics - 36 Months									
	Portfolio	Benchmark	Peer Median						
Standard Deviation	11.45	10.31	11.00						
Beta	1.06	1.00	1.01						
Sharpe Ratio	1.07	0.88	0.68						
Information Ratio	0.96	N/A	-0.41						
Tracking Error	3.33	0.00	3.81						
Consistency	58.33	0.00	44.44						
Up Market Capture	119.46	100.00	93.35						
Down Market Capture	104.80	100.00	100.98						
R-Squared	0.92	1.00	0.89						

## Fund Objective

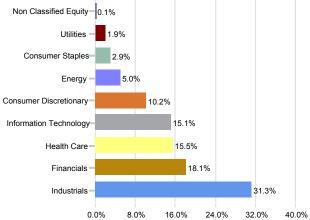
The Fund seeks long-term growth of capital. The Fund invests at least 80% of its assets in common stocks of mid-capitalization companies. The Fund may invest up to 20% of its total assets in securities of foreign issuers and non-dollar securities.

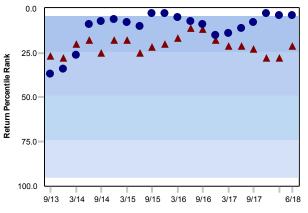
		1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Company LLC	Hartfd:MidCap HLS;IA	3.95	7.51	19.41	12.96	15.12	10.86
	Russell Midcap Index	2.82	2.35	12.33	9.58	12.22	10.23
(MF)	Excess Return	1.13	5.16	7.08	3.38	2.90	0.63
	Russell Midcap Growth Index	3.16	5.40	18.52	10.73	13.37	10.45
	Excess Return	0.79	2.11	0.89	2.23	1.75	0.41
	Excess Return Calendar Year Returns	0.79	2.11		2.23 tile Ranking (Ret	-	





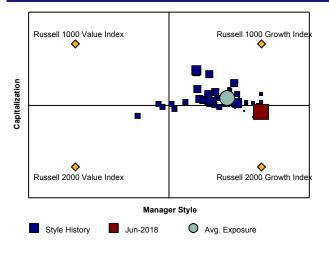






Hartfd:MidCap HLS;IA A Russell Midcap Index

### Style Map - 12 Months



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SMID Domestic Equity



Goldman:Sm/Md Cp Gr;A (GSMAX)

As of June 30, 2018

Fund Information	1
Product Name :	Goldman:Sm/Md Cp Gr;A (GSMAX)
Fund Family :	Goldman Sachs & Co/GSAM
Ticker :	GSMAX
Peer Group :	IM U.S. SMID Cap Growth Equity (MF)
Benchmark :	Russell 2500 Growth Index
Fund Inception :	06/30/2005
Portfolio Manager :	Barry/Zimmerman/DeSantis
Total Assets :	\$329 Million
Total Assets Date :	06/30/2018
Gross Expense :	1.30%
Net Expense :	1.27%
Turnover :	60%

## Fund Characteristics As of 03/31/2018

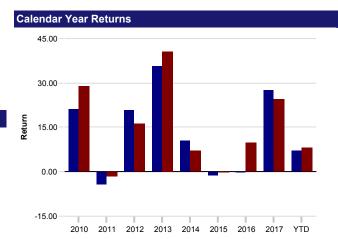
Total Securities	96
Avg. Market Cap	\$7,963 Million
P/E	36.42
P/B	8.67
Div. Yield	1.19%
Annual EPS	33.99
5Yr EPS	23.59
3Yr EPS Growth	18.67

Portfolio Statis	tics - 36 Month	S	
	Portfolio	Benchmark	Peer Mediar
Standard Deviation	n 12.65	12.94	13.68
Beta	0.93	1.00	1.00
Sharpe Ratio	0.58	0.82	0.79
Information Ratio	-0.77	N/A	0.02
Tracking Error	4.14	0.00	4.42
Consistency	44.44	0.00	50.00
Up Market Captur	e 88.28	100.00	97.58
Down Market Cap	oture 104.03	100.00	98.05
R-Squared	0.90	1.00	0.90

## Fund Objective

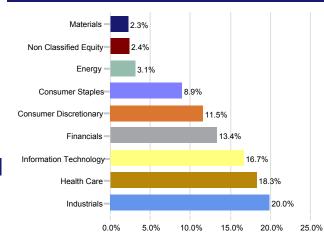
The Fund seeks long-term growth of capital. The Fund achieves this objective by investing at least 90% of its assets in equity investments with a primary focus on small and mid-capitalization companies.

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Goldman:Sm/Md Cp Gr;A (GSMAX)	3.00	7.05	18.76	7.44	11.90	11.03
Russell 2500 Growth Index	5.53	8.04	21.53	10.86	13.87	11.38
Excess Return	-2.53	-0.99	-2.77	-3.42	-1.97	-0.35

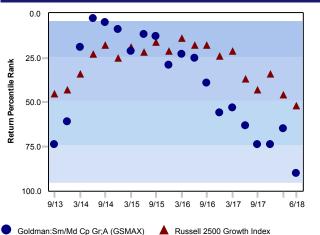


Goldman:Sm/Md Cp Gr;A (GSMAX)

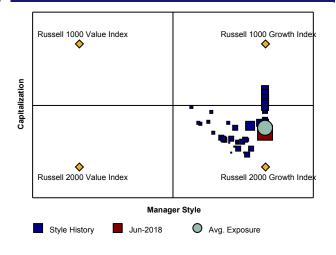
## Sector/Quality Allocation (Holdings based)



## Rolling Percentile Ranking (Return)- 36 Months



## Style Map - 12 Months



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Oppenheimer Mn St MC;Y (OPMYX)

As of June 30, 2018

Fund Information	
Product Name :	Oppenheimer Mn St MC;Y (OPMYX)
Fund Family :	OppenheimerFunds Inc
Ticker :	OPMYX
Peer Group :	IM U.S. Mid Cap Core Equity (MF)
Benchmark :	Russell Midcap Index
Fund Inception :	08/02/1999
Portfolio Manager :	Raymond Anello
Total Assets :	\$609 Million
Total Assets Date :	06/30/2018
Gross Expense :	0.86%
Net Expense :	0.86%
Turnover :	68%

## Fund Characteristics As of 05/31/2018

Total Securities	84
Avg. Market Cap	\$17,406 Million
P/E	26.78
P/B	5.27
Div. Yield	2.78%
Annual EPS	21.37
5Yr EPS	15.59
3Yr EPS Growth	13.63

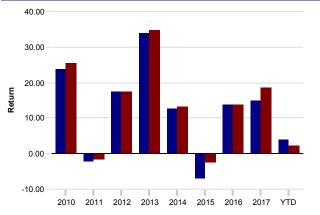
Portfolio Statistics -	36 Months	\$	
	Portfolio	Benchmark	Peer Mediar
Standard Deviation	8.97	10.31	11.00
Beta	0.82	1.00	1.01
Sharpe Ratio	0.76	0.88	0.68
Information Ratio	-0.64	N/A	-0.41
Tracking Error	3.51	0.00	3.81
Consistency	38.89	0.00	44.44
Up Market Capture	78.48	100.00	93.35
Down Market Capture	80.27	100.00	100.98
R-Squared	0.89	1.00	0.89

## Fund Objective

The Fund seeks capital appreciation. The Fund mainly invests in common stocks of small and mid-cap companies. Under normal market conditions, the Fund will invest at least 80% of its net assets in securities of companies having a market capitalization in the range of the Russell 2500 Index and the Russell Midcap Index.

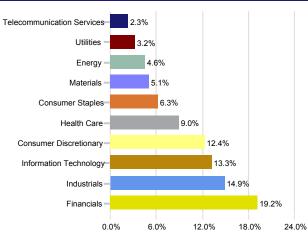
Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Oppenheimer Mn St MC;Y (OPMYX)	4.56	3.97	10.96	7.29	10.78	9.72
Russell Midcap Index	2.82	2.35	12.33	9.58	12.22	10.23
Excess Return	1.74	1.62	-1.37	-2.29	-1.44	-0.51

## Calendar Year Returns

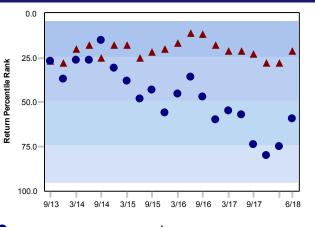


Oppenheimer Mn St MC;Y (OPMYX) Russell Midcap Index

## Sector/Quality Allocation (Holdings based)

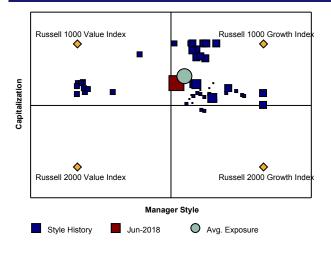


## Rolling Percentile Ranking (Return)- 36 Months



## Oppenheimer Mn St MC;Y (OPMYX) A Russell Midcap Index

## Style Map - 12 Months



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## Page 16

Vanguard Ext Mk Id;Inst (VIEIX)

As of June 30, 2018

Fund Information	
Product Name :	Vanguard Ext Mk Id;Inst (VIEIX)
Fund Family :	Vanguard Group Inc
Ticker :	VIEIX
Peer Group :	IM U.S. SMID Cap Core Equity (MF)
Benchmark :	S&P Completion Index
Fund Inception :	07/07/1997
Portfolio Manager :	Butler/Coleman
Total Assets :	\$14,310 Million
Total Assets Date :	05/31/2018
Gross Expense :	0.06%
Net Expense :	0.06%
Turnover :	11%

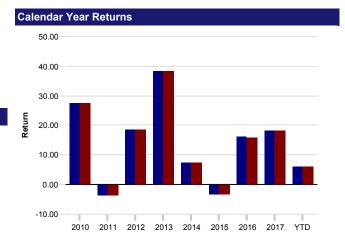
Fund Characterist	ics As of 05/31/2018
Total Securities	3,260
Avg. Market Cap	\$6,948 Million
P/E	30.31
P/B	5.12
Div. Yield	2.49%
Annual EPS	24.44
5Yr EPS	11.96
3Yr EPS Growth	13.23

Portfolio Statistics -	36 Months	\$	
	Portfolio	Benchmark	Peer Median
Standard Deviation	12.11	12.10	12.84
Beta	1.00	1.00	1.00
Sharpe Ratio	0.83	0.82	0.73
Information Ratio	1.98	N/A	-0.13
Tracking Error	0.06	0.00	4.36
Consistency	72.22	0.00	44.44
Up Market Capture	100.49	100.00	99.40
Down Market Capture	99.82	100.00	105.78
R-Squared	1.00	1.00	0.89

## Fund Objective

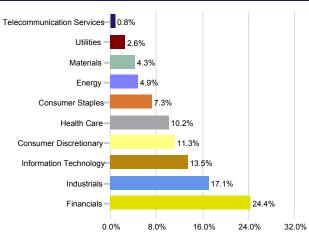
The Fund seeks to track the performance of a benchmark index that measures the investment return of small- and mid-capitalization stocks.

Performance Summary (net of fees)						
Ferformance Summary (net of re	,	0) (TP		• ``	- \/	10.14
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard Ext Mk Id;Inst (VIEIX)	5.99	6.15	16.79	10.36	12.65	10.80
S&P Completion Index	5.94	6.07	16.72	10.23	12.53	10.66
Excess Return	0.05	0.08	0.07	0.13	0.12	0.14

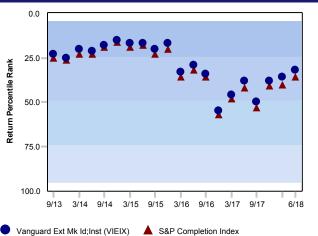


#### Vanguard Ext Mk Id;Inst (VIEIX) S&P Completion Index

## Sector/Quality Allocation (Holdings based)

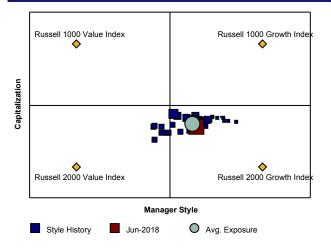


## Rolling Percentile Ranking (Return)- 36 Months



#### **C ( ( ( )**

## Style Map - 12 Months



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International Equity



Vanguard Dev Mkt;Inst (VTMNX)

As of June 30, 2018

Fund Information	
Product Name :	Vanguard Dev Mkt;Inst (VTMNX)
Fund Family :	Vanguard Group Inc
Ticker :	VTMNX
Peer Group :	IM International Equity (MF)
Benchmark :	Vanguard Developed Market Policy Index
Fund Inception :	01/04/2001
Portfolio Manager :	Franquin/Perre
Total Assets :	\$11,747 Million
Total Assets Date :	05/31/2018
Gross Expense :	0.06%
Net Expense :	0.06%
Turnover :	3%

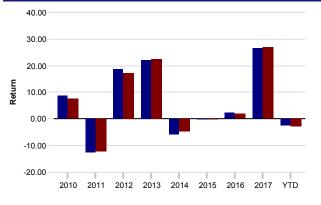
Fund Characteri	stics As of 05/31/2018
Total Securities	3,881
Avg. Market Cap	\$51,917 Million
P/E	20.77
P/B	2.99
Div. Yield	2.94%
Annual EPS	30.23
5Yr EPS	10.06
3Yr EPS Growth	11.45

Portfolio Statistics - 36 Months

erformance Summary	(net of fees)
citorinance ourinnary	

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard Dev Mkt;Inst (VTMNX)	-1.59	-2.65	7.33	5.70	6.97	3.26
Vanguard Developed Market Policy Index	-1.43	-2.75	7.54	5.92	7.22	3.21
Excess Return	-0.16	0.10	-0.21	-0.22	-0.25	0.05

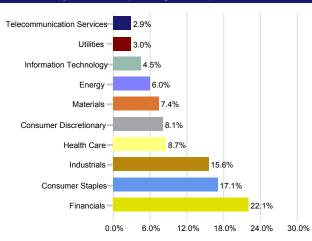




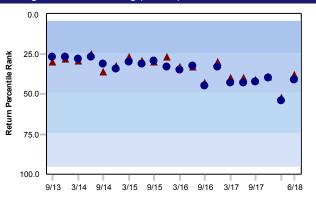
## Vanguard Dev Mkt;Inst (VTMNX)

Vanguard Developed Market Policy Index

#### Sector/Quality Allocation (Holdings based)



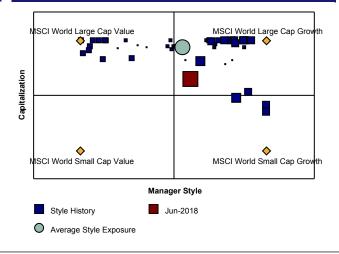
## Rolling Percentile Ranking (Return)- 36 Months



Vanguard Dev Mkt;Inst (VTMNX)

Vanguard Developed Market Policy Index

## Style Map - 12 Months



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	Portfolio	Benchmark	Peer Median
Standard Deviation	11.13	11.98	12.08
Beta	0.92	1.00	0.91
Sharpe Ratio	0.50	0.49	0.40
Information Ratio	-0.15	N/A	-0.13
Tracking Error	2.03	0.00	5.72
Consistency	47.22	0.00	50.00
Up Market Capture	91.62	100.00	88.47
Down Market Capture	89.96	100.00	87.67
R-Squared	0.97	1.00	0.79

International Equity w/ E.M.



Dodge & Cox Intl Stock (DODFX)

As of June 30, 2018

<b>Fund Information</b>	
Product Name :	Dodge & Cox Intl Stock (DODFX)
Fund Family :	Dodge & Cox
Ticker :	DODFX
Peer Group :	IM International Core Equity (MF)
Benchmark :	MSCI AC World ex USA (Net)
Fund Inception :	05/01/2001
Portfolio Manager :	Team Managed
Total Assets :	\$61,244 Million
Total Assets Date :	05/31/2018
Gross Expense :	0.63%
Net Expense :	0.63%
Turnover :	17%

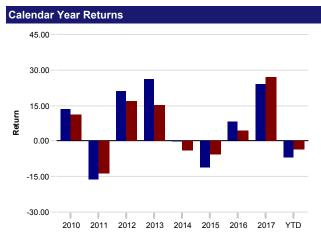


Portfolio Statistics -	36 Months	;	
	Portfolio	Benchmark	Peer Median
Standard Deviation	14.78	12.00	11.31
Beta	1.17	1.00	0.90
Sharpe Ratio	0.17	0.42	0.38
Information Ratio	-0.50	N/A	-0.21
Tracking Error	5.03	0.00	3.56
Consistency	44.44	0.00	47.22
Up Market Capture	106.17	100.00	91.12
Down Market Capture	126.74	100.00	91.76
R-Squared	0.90	1.00	0.91

## Fund Objective

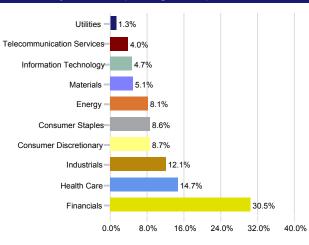
The Fund seeks long-term growth of principal and income by investing primarily in a diversified portfolio of equity securities issued by non-U.S. companies from at least three different foreign countries, including emerging markets.

Performance Summary (net of fee	es)					
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Dodge & Cox Intl Stock (DODFX)	-5.12	-7.15	0.50	2.06	5.78	3.68
MSCI AC World ex USA (Net)	-2.61	-3.77	7.28	5.07	5.99	2.54
Excess Return	-2.51	-3.38	-6.78	-3.01	-0.21	1.14

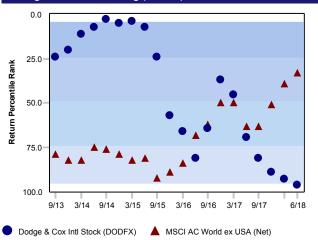


Dodge & Cox Intl Stock (DODFX) MSCI AC World ex USA (Net)

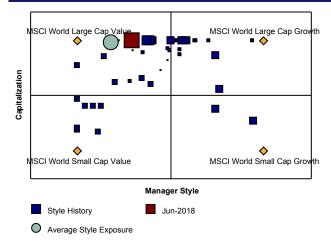
Sector/Quality Allocation (Holdings based)



Rolling Percentile Ranking (Return)- 36 Months



## Style Map - 12 Months



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Global Equity



Franklin Mut GI Disc;A (TEDIX)

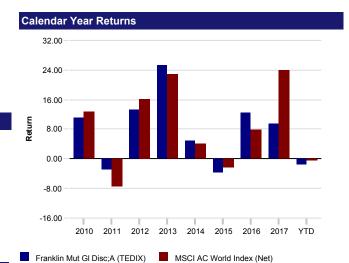
As of June 30, 2018

<b>Fund Information</b>	
Product Name :	Franklin Mut GI Disc;A (TEDIX)
Fund Family :	Franklin Templeton Investments
Ticker :	TEDIX
Peer Group :	IM Global Core Equity (MF)
Benchmark :	MSCI AC World Index (Net)
Fund Inception :	11/01/1996
Portfolio Manager :	Team Managed
Total Assets :	\$8,814 Million
Total Assets Date :	05/31/2018
Gross Expense :	1.21%
Net Expense :	1.21%
Turnover :	18%

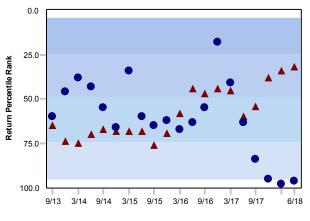
Fund Characterist	tics As of 05/31/2018
Total Securities	118
Avg. Market Cap	\$91,800 Million
P/E	22.44
P/B	2.46
Div. Yield	2.87%
Annual EPS	32.47
5Yr EPS	5.88
3Yr EPS Growth	9.81

Portfolio Statistics - 36 Months						
	Portfolio	Benchmark	Peer Median			
Standard Deviation	9.55	10.52	10.40			
Beta	0.82	1.00	0.96			
Sharpe Ratio	0.44	0.74	0.69			
Information Ratio	-0.83	N/A	-0.19			
Tracking Error	4.40	0.00	3.03			
Consistency	38.89	0.00	47.22			
Up Market Capture	77.45	100.00	98.60			
Down Market Capture	95.33	100.00	101.82			
R-Squared	0.83	1.00	0.92			

	Performance Summary (net of fe	ees)					
()		1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
ts	Franklin Mut GI Disc;A (TEDIX)	1.20	-1.60	1.16	4.44	6.89	6.33
	MSCI AC World Index (Net)	0.53	-0.43	10.73	8.19	9.41	5.80
	Excess Return	0.67	-1.17	-9.57	-3.75	-2.52	0.53

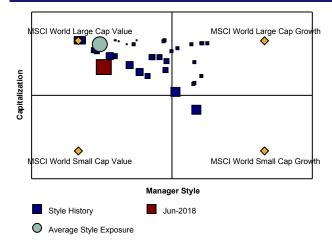


Rolling Percentile Ranking (Return)- 36 Months

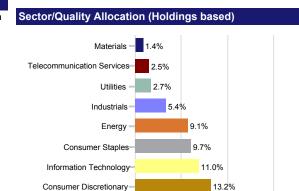


Franklin Mut GI Disc;A (TEDIX) 💧 MSCI AC World Index (Net)

## Style Map - 12 Months



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Health Care

Financials

0.0%

Page 23

8.0%

14.1%

16.0%

24.1%

32.0%

**Domestic Fixed Income** 



Vanguard Tot Bd;Inst (VBTIX)

As of June 30, 2018

Fund Information Product Name :

Fund Family :

n	Performance Summary (net of fees	)					
Vanguard Tot Bd;Inst (VBTIX)		1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard Group Inc	Vanguard Tot Bd;Inst (VBTIX)	-0.17	-1.64	-0.52	1.68	2.21	3.68
VBTIX	Vanguard Total Bond Policy Index	-0.20	-1.67	-0.45	1.74	2.26	3.74
IM U.S. Broad Market Core Fixed Income	Excess Return	0.03	0.03	-0.07	-0.06	-0.05	-0.06

VBTIX Ticker : Peer Group : IM U.S. Broa (MF) Vanguard Total Bond Policy Index Benchmark : 09/18/1995 Fund Inception : Portfolio Manager : Joshua C. Barrickman Total Assets : \$39,637 Million Total Assets Date : 05/31/2018 Gross Expense : 0.04% Net Expense : 0.04% Turnover : 55%

## Fund Characteristics As of 03/31/2018

Avg. Coupon	3.08 %
Nominal Maturity	N/A
Effective Maturity	8.50 Years
Duration	6.08 Years
SEC 30 Day Yield	2.69
Avg. Credit Quality	AA

Ga	ienua	rear	Retu	llis							
	9.00-										
	6.00-										
Return	3.00-										
	0.00-										
	-3.00 —	2010	2011	2012	2013	2014	2015	2016	2017	YTD	

Calendar Vear Returns

Vanguard Tot Bd;Inst (VBTIX)

Equities/Other

AA Rated

A Rated

BBB Rated

0.0%

Government/AAA

Sector/Quality Allocation (Holdings based)

4.8%

12.4%

12.9%

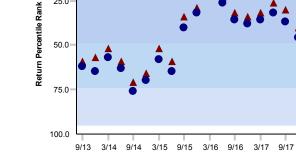
20.0%

71.7%

80.0%

60.0%

Vanguard Total Bond Policy Index



Vanguard Tot Bd;Inst (VBTIX)

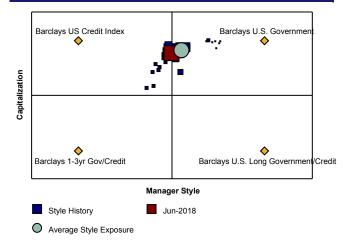
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25.0

A Vanguard Total Bond Policy Index

6/18

## Style Map - 12 Months



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Portfolio Statistics - 36 Months									
	Portfolio	Benchmark	Peer Median						
Standard Deviation	2.76	2.67	2.58						
Beta	1.03	1.00	0.91						
Sharpe Ratio	0.38	0.41	0.37						
Information Ratio	-0.20	N/A	-0.26						
Tracking Error	0.26	0.00	0.67						
Consistency	41.67	0.00	47.22						
Up Market Capture	100.72	100.00	93.93						
Down Market Capture	103.19	100.00	95.66						
R-Squared	0.99	1.00	0.94						

## Fund Objective

The Fund seeks to track the performance of a broad, marketweighted bond index.

	Portfolio	Benchmark	Peer Median
standard Deviation	2.76	2.67	2.58
leta	1.03	1.00	0.91
Sharpe Ratio	0.38	0.41	0.37
nformation Ratio	-0.20	N/A	-0.26
racking Error	0.26	0.00	0.67
Consistency	41.67	0.00	47.22
Jp Market Capture	100.72	100.00	93.93
own Market Capture	103.19	100.00	95.66
R-Squared	0.99	1.00	0.94

40.0%

Rolling Percentile Ranking (Return)- 36 Months

**Target Date Retirement Funds** 



Vanguard ITR Inc;Inst (VITRX)

\$5.513 Million

\$35,119 Million

05/31/2018

0.09%

0.09%

7%

Fund Characteristics As of 05/31/2018

6

7.37

1.50

7.21

3.56

3 42

0.77%

As of June 30, 2018

Total Assets :

Total Assets Date :

Gross Expense :

Net Expense :

**Total Securities** 

Avg. Market Cap

Turnover :

P/E

P/B

Div. Yield

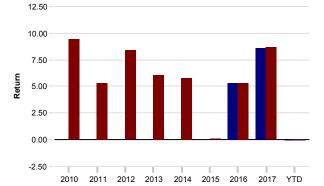
5Yr EPS

Annual EPS

3Yr EPS Growth

Fund Information	n	Performance Summary (net of fees)					
Product Name :	Vanguard ITR Inc;Inst (VITRX)			Year			
Fund Family :	Vanguard Group Inc		1	То	1	3	5
Ticker :	VITRX		Quarter	Date	Year	Years	Years
Peer Group :	IM Mixed-Asset Target 2010 (MF)	Vanguard ITR Inc;Inst (VITRX)	0.45	-0.07	4.00	4.19	N/A
	5	Vanguard Target Income Composite Index	0.50	-0.03	4.20	4.33	4.99
Benchmark :	Vanguard Target Income Composite Index	Excess Return	-0.05	-0.04	-0.20	-0.14	N/A
Fund Inception :	06/26/2015		0.00	0.04	0.20	0.14	1.07.4
Portfolio Manager :	Coleman/Nejman	Calendar Year Returns		Rollin	g Percentile R	anking (Return	)- 36 Months

Calendar	Year	Return
----------	------	--------





Peer Median

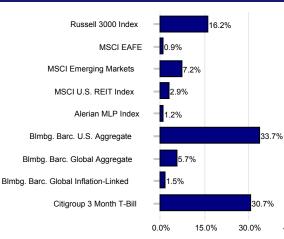
4.63

1.34

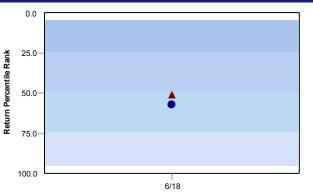


Vanguard Target Income Composite Index

## Investment Style Exposure (Returns based ) - 36 Months



## **Rolling Percentile Ranking (Return)- 36 Months**



10

Years

N/A

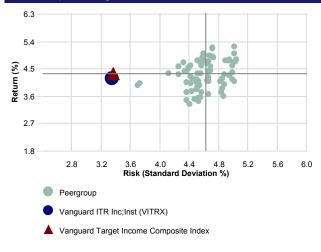
5.17

N/A

## Vanguard ITR Inc;Inst (VITRX)

Vanguard Target Income Composite Index

#### Peer Group Scattergram - 36 Months



X Segal Marco Advisors

#### Portfolio Benchmark Standard Deviation 3.35 3.37 0 99 Reta 1 00

Portfolio Statistics - 36 Months

Deta	0.00	1.00	1.04
Sharpe Ratio	1.06	1.09	0.81
Information Ratio	-0.58	N/A	0.03
Tracking Error	0.22	0.00	1.55
Consistency	38.89	0.00	55.56
Up Market Capture	98.00	100.00	118.91
Down Market Capture	99.60	100.00	147.42
R-Squared	1.00	1.00	0.94

## Fund Objective

The Fund seeks to provide current income and some capital appreciation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors currently in retirement.

## Page 27

99.41

109.94

0.97

Vanguard ITR 2015;Inst (VITVX)

As of June 30, 2018

Total Assets :

Total Assets Date :

Gross Expense :

Net Expense :

**Total Securities** 

Avg. Market Cap

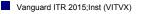
Turnover :

P/E

Fund Information	n	Performance Summary (net of fees)						
Product Name : Fund Family : Ticker :	Vanguard ITR 2015;Inst (VITVX) Vanguard Group Inc VITVX		1 Quarter	Year To Date	1 Year	3 Years	5 Years	10 Years
Peer Group :	IM Mixed-Asset Target 2015 (MF)	Vanguard ITR 2015;Inst (VITVX)	0.55	0.05	5.48	5.19	N/A	N/A
Benchmark :	Vanguard Target 2015 Composite Index	Vanguard Target 2015 Composite Index	0.64	0.07	5.65	5.33	6.64	6.00
Fund Inception :	06/26/2015	Excess Return	-0.09	-0.02	-0.17	-0.14	N/A	N/A
Portfolio Manager :	Buek/Coleman/Nejman	Calendar Year Returns		Rolli	ng Percentile F	Ranking (Return	)- 36 Months	

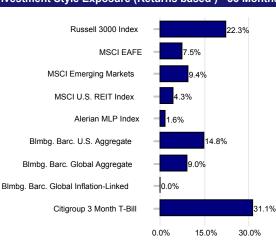




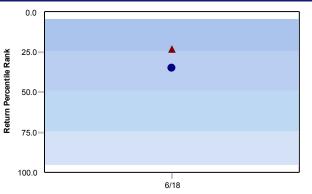




## Investment Style Exposure (Returns based ) - 36 Months



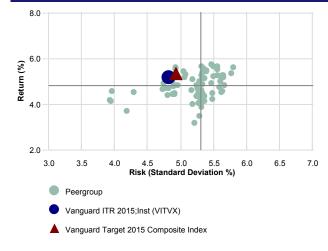
**Rolling Percentile Ranking (Return)- 36 Months** 



## Vanguard ITR 2015;Inst (VITVX)

Vanguard Target 2015 Composite Index

## Peer Group Scattergram - 36 Months





P/B Div. Yield Annual EPS 5Yr EPS 3Yr EPS Growth	2.07 1.07% 9.97 4.93 4.73		
Portfolio Statistic	s - 36 Months	\$	
Portfolio Statistic	s - 36 Months Portfolio	Benchmark	Peer Median
Portfolio Statistic			Peer Median 5.31
	Portfolio	Benchmark	
Standard Deviation	Portfolio 4.82	Benchmark 4.93	5.31
Standard Deviation Beta	<b>Portfolio</b> 4.82 0.98	Benchmark 4.93 1.00	5.31 1.06
Standard Deviation Beta Sharpe Ratio	Portfolio 4.82 0.98 0.95	Benchmark 4.93 1.00 0.95	5.31 1.06 0.83

97.13

96.78

1.00

100.00

100.00

1.00

\$8.140 Million

\$48,507 Million

05/31/2018

0.09%

0.09%

10%

Fund Characteristics As of 05/31/2018

6

10.19

## Fund Objective

Up Market Capture

R-Squared

Down Market Capture

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2015.

Vanguard ITR 2020;Inst (VITWX)

05/31/2018 0.09%

0.09%

6%

Fund Characteristics As of 05/31/2018

6

13.39

1.40%

13.06

6.47

6.20

2.73

\$63,950 Million

As of June 30, 2018

Total Assets Date :

Gross Expense :

Net Expense :

**Total Securities** 

Avg. Market Cap

Turnover :

P/E

P/B

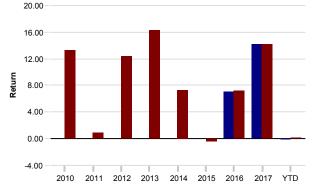
Div. Yield

5Yr EPS

Annual EPS

3Yr EPS Growth

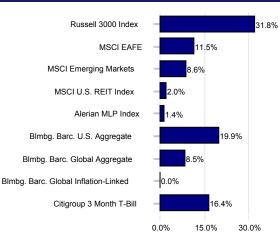
Fund Informatio	n	Performance Summary (net of fees)						
Product Name :	Vanguard ITR 2020;Inst (VITWX)			Year		_	_	
Fund Family :	Vanguard Group Inc		1 Quarter	To Date	1 Year	3 Years	5 Years	10 Years
Ticker :	VITWX	Vanguard ITR 2020;Inst (VITWX)	0.63	0.04	6.71	6.11	N/A	N/A
Peer Group :	IM Mixed-Asset Target 2020 (MF)	5						
Benchmark :	Vanguard Target 2020 Composite Index	Vanguard Target 2020 Composite Index	0.77	0.14	6.98	6.29	7.68	6.59
Fund Inception :	06/26/2015	Excess Return	-0.14	-0.10	-0.27	-0.18	N/A	N/A
Portfolio Manager :	Coleman/Nejman	Calendar Year Returns		Rolli	ng Percentile F	Ranking (Returi	h)- 36 Months	
Total Assets :	\$20,382 Million	20.00			0.0			

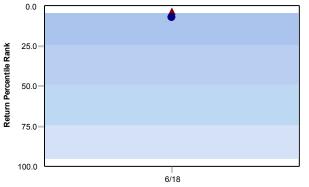






## Investment Style Exposure (Returns based ) - 36 Months

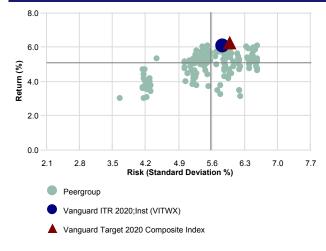




## Vanguard ITR 2020;Inst (VITWX)

Vanguard Target 2020 Composite Index

## Peer Group Scattergram - 36 Months



X Segal Marco Advisors

## Portfolio Statistics - 36 Months

	Portfolio	Benchmark	Peer Median
Standard Deviation	5.85	5.99	5.58
Beta	0.97	1.00	0.91
Sharpe Ratio	0.94	0.95	0.79
Information Ratio	-0.44	N/A	-0.94
Tracking Error	0.42	0.00	1.06
Consistency	41.67	0.00	36.11
Up Market Capture	97.13	100.00	88.22
Down Market Capture	97.16	100.00	95.52
R-Squared	1.00	1.00	0.98

## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2020.

Vanguard ITR 2025;Inst (VRIVX)

As of June 30, 2018

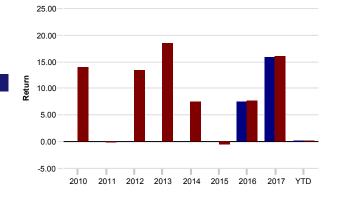
Total Assets Date :

Gross Expense :

Net Expense :

Turnover :

Fund Informatio	'n	Performance Summary (net of fees)						
Product Name : Fund Family :	Vanguard ITR 2025;Inst (VRIVX) Vanguard Group Inc		1 Quarter	Year To Date	1 Year	3 Years	5 Years	10 Years
Ticker : Peer Group :	VRIVX IM Mixed-Asset Target 2025 (MF)	Vanguard ITR 2025;Inst (VRIVX)	0.70	0.13	7.63	6.72	N/A	N/A
Benchmark :	Vanguard Target 2025 Composite Index	Vanguard Target 2025 Composite Index	0.86	0.19	7.94	6.90	8.35	6.89
Fund Inception :	06/26/2015	Excess Return	-0.16	-0.06	-0.31	-0.18	N/A	N/A
Portfolio Manager :	Coleman/Nejman	Calendar Year Returns		Rolli	ng Percentile F	Ranking (Returr	ı)- 36 Months	
Total Assets :	\$25,974 Million						•	





4%

05/31/2018

0.09%

0.09%

Total Securities	5
Avg. Market Cap	\$74,583 Million
P/E	15.62
P/B	3.18
Div. Yield	1.64%
Annual EPS	15.23
5Yr EPS	7.55
3Yr EPS Growth	7.23

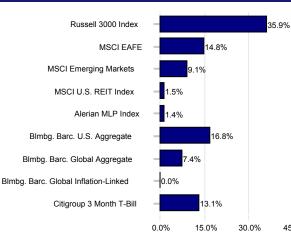
Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	6.63	6.79	6.56				
Beta	0.98	1.00	0.95				
Sharpe Ratio	0.92	0.93	0.82				
Information Ratio	-0.39	N/A	-0.83				
Tracking Error	0.47	0.00	1.17				
Consistency	44.44	0.00	38.89				
Up Market Capture	97.31	100.00	91.48				
Down Market Capture	97.27	100.00	96.87				
R-Squared	1.00	1.00	0.98				

## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2025.

# Vanguard ITR 2025;Inst (VRIVX) Vanguard Target 2025 Composite Index

## Investment Style Exposure (Returns based ) - 36 Months



## Vanguard ITR 2025;Inst (VRIVX)

0.0

25.0

50.0

75.0

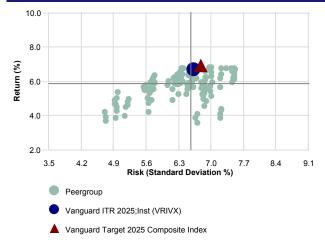
100.0

Return Percentile Rank

45.0%

Vanguard Target 2025 Composite Index

## Peer Group Scattergram - 36 Months



6/18



Vanguard ITR 2030;Inst (VTTWX)

As of June 30, 2018

Total Assets :

Total Assets Date :

Gross Expense :

Net Expense :

Turnover :

Fund Information	n	Performance Summary (net of fees)						
Product Name :	Vanguard ITR 2030;Inst (VTTWX)			Year				
Fund Family :	Vanguard Group Inc		1	То	1	3	5	10
Ticker :	VTTWX		Quarter	Date	Year	Years	Years	Years
Peer Group :	IM Mixed-Asset Target 2030 (MF)	Vanguard ITR 2030;Inst (VTTWX)	0.78	0.22	8.51	7.21	N/A	N/A
Benchmark :	Vanguard Target 2030 Composite Index	Vanguard Target 2030 Composite Index	0.98	0.30	8.82	7.42	8.96	7.14
Fund Inception :	06/26/2015	Excess Return	-0.20	-0.08	-0.31	-0.21	N/A	N/A
Portfolio Manager :	Coleman/Nejman	Calendar Year Returns		Rolli	ng Percentile F	Ranking (Return	)- 36 Months	



Fund Characteristics As of 05/31/2018 TILO

4%

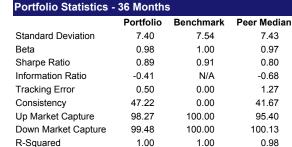
\$23.421 Million

05/31/2018

0.09%

0.09%

I otal Securities	5
Avg. Market Cap	\$83,274 Million
P/E	17.45
P/B	3.56
Div. Yield	1.83%
Annual EPS	17.03
5Yr EPS	8.44
3Yr EPS Growth	8.08



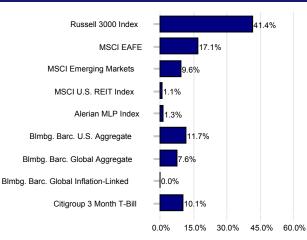
## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2030.

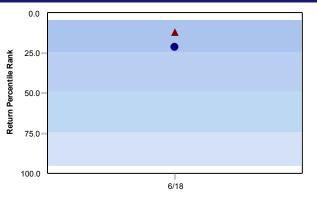
#### Vanguard ITR 2030;Inst (VTTWX)

Vanguard Target 2030 Composite Index

#### Investment Style Exposure (Returns based ) - 36 Months



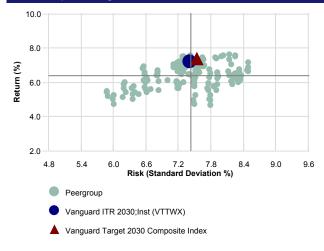
#### Rolling Percentile Ranking (Return)- 36 Months

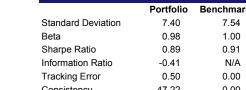


#### Vanguard ITR 2030:Inst (VTTWX)

Vanguard Target 2030 Composite Index

#### Peer Group Scattergram - 36 Months





Vanguard ITR 2035;Inst (VITFX)

As of June 30, 2018

Fund Information	1
Product Name :	Vanguard ITR 2035;Inst (VITFX)
Fund Family :	Vanguard Group Inc
Ticker :	VITFX
Peer Group :	IM Mixed-Asset Target 2035 (MF)
Benchmark :	Vanguard Target 2035 Composite Index
Fund Inception :	06/26/2015
Portfolio Manager :	Coleman/Nejman
Total Assets :	\$21,660 Million
Total Assets Date :	05/31/2018
Gross Expense :	0.09%
Net Expense :	0.09%
Turnover :	4%

#### Fund Characteristics As of 05/31/2018

Total Securities	5
Avg. Market Cap	\$92,180 Million
P/E	19.33
P/B	3.94
Div. Yield	2.03%
Annual EPS	18.87
5Yr EPS	9.34
3Yr EPS Growth	8.95

Portfolio Statistics - 36 Months							
	Portfolio	Benchmark	Peer Median				
Standard Deviation	8.12	8.31	8.22				
Beta	0.97	1.00	0.98				
Sharpe Ratio	0.88	0.89	0.82				
Information Ratio	-0.40	N/A	-0.54				
Tracking Error	0.55	0.00	1.16				
Consistency	41.67	0.00	41.67				
Up Market Capture	98.12	100.00	97.44				
Down Market Capture	99.09	100.00	101.47				
R-Squared	1.00	1.00	0.98				

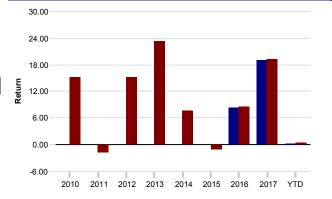
## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2035.

## Performance Summary (net of fees)

		Year				
	1	То	1	3	5	10
	Quarter	Date	Year	Years	Years	Years
Vanguard ITR 2035;Inst (VITFX)	0.86	0.30	9.33	7.70	N/A	N/A
Vanguard Target 2035 Composite Index	1.07	0.38	9.67	7.92	9.56	7.46
Excess Return	-0.21	-0.08	-0.34	-0.22	N/A	N/A

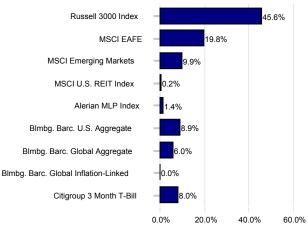




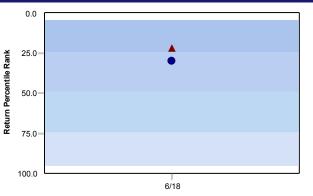


Vanguard Target 2035 Composite Index

## Investment Style Exposure (Returns based ) - 36 Months



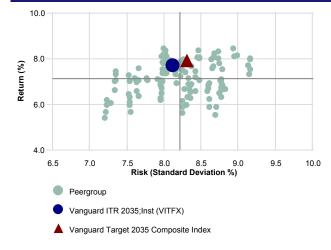
## Rolling Percentile Ranking (Return)- 36 Months



## Vanguard ITR 2035;Inst (VITFX)

Vanguard Target 2035 Composite Index

## Peer Group Scattergram - 36 Months



★ Segal Marco Advisors

# to retire and leave the 5.

Vanguard ITR 2040;Inst (VIRSX)

\$18.549 Million

\$101,084 Million

05/31/2018

0.09%

0.09%

5%

Fund Characteristics As of 05/31/2018

5

21.22

4.32

2.23%

20.73

10.26

9.83

As of June 30, 2018

Total Assets :

Total Assets Date :

Gross Expense :

Net Expense :

**Total Securities** 

Avg. Market Cap

Turnover :

P/E

P/B

Div. Yield

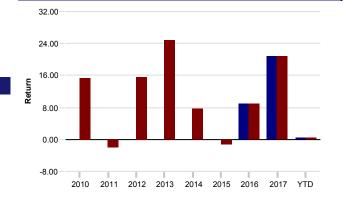
5Yr EPS

Annual EPS

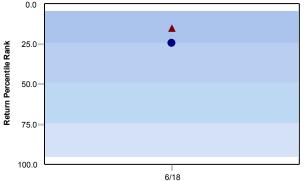
3Yr EPS Growth

Fund Information	1	Performance Summary (net of fees)						
Product Name : Fund Family : Ticker :	Vanguard ITR 2040;Inst (VIRSX) Vanguard Group Inc VIRSX		1 Quarter	Year To Date	1 Year	3 Years	5 Years	10 Years
Peer Group :	IM Mixed-Asset Target 2040 (MF)	Vanguard ITR 2040;Inst (VIRSX)	0.94	0.38	10.15	8.17	N/A	N/A
Benchmark :	Vanguard Target 2040 Composite Index	Vanguard Target 2040 Composite Index	1.15	0.44	10.51	8.41	10.07	7.78
Fund Inception :	06/26/2015	Excess Return	-0.21	-0.06	-0.36	-0.24	N/A	N/A
Portfolio Manager :	Coleman/Nejman	Calendar Year Returns		Rolli	ng Percentile R	anking (Returr	i)- 36 Months	





## 0.0



## Portfolio Statistics - 36 Months

	Portfolio	Benchmark	Peer Median
Standard Deviation	8.89	9.09	8.74
Beta	0.98	1.00	0.95
Sharpe Ratio	0.86	0.87	0.80
Information Ratio	-0.37	N/A	-0.62
Tracking Error	0.65	0.00	1.31
Consistency	41.67	0.00	41.67
Up Market Capture	97.95	100.00	94.01
Down Market Capture	98.78	100.00	97.99
R-Squared	1.00	1.00	0.98

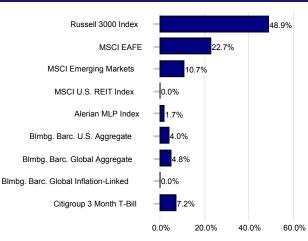
## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2040.

## Vanguard ITR 2040;Inst (VIRSX)

Vanguard Target 2040 Composite Index

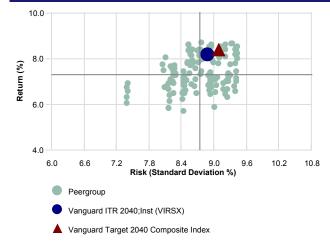
## Investment Style Exposure (Returns based ) - 36 Months



## Vanguard ITR 2040;Inst (VIRSX)

Vanguard Target 2040 Composite Index

## Peer Group Scattergram - 36 Months





Vanguard ITR 2045;Inst (VITLX)

As of June 30, 2018

Fund Information	1	Perf
Product Name :	Vanguard ITR 2045;Inst (VITLX)	
Fund Family :	Vanguard Group Inc	
Ticker :	VITLX	
Peer Group :	IM Mixed-Asset Target 2045 (MF)	Vang
Benchmark :	Vanguard Target 2045 Composite Index	Vang
Fund Inception :	06/26/2015	Exc
Portfolio Manager :	Coleman/Nejman	Cale
Total Assets :	\$15,393 Million	
Total Assets Date :	05/31/2018	
Gross Expense :	0.09%	
Net Expense :	0.09%	:
Turnover :	5%	

#### Fund Characteristics As of 05/31/2018

Total Securities	5
Avg. Market Cap	\$106,482 Million
P/E	22.33
P/B	4.55
Div. Yield	2.34%
Annual EPS	21.79
5Yr EPS	10.79
3Yr EPS Growth	10.34

Portfolio Statistics - 36 Months						
	Portfolio	Benchmark	Peer Median			
Standard Deviation	9.05	9.26	9.05			
Beta	0.98	1.00	0.97			
Sharpe Ratio	0.87	0.88	0.82			
Information Ratio	-0.36	N/A	-0.57			
Tracking Error	0.65	0.00	1.25			
Consistency	47.22	0.00	38.89			
Up Market Capture	97.88	100.00	95.88			
Down Market Capture	98.45	100.00	99.47			
R-Squared	1.00	1.00	0.98			

## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2045.

## formance Summary (net of fees)

		Year				
	1	То	1	3	5	10
	Quarter	Date	Year	Years	Years	Years
Vanguard ITR 2045;Inst (VITLX)	0.97	0.42	10.62	8.45	N/A	N/A
Vanguard Target 2045 Composite Index	1.20	0.49	10.93	8.68	10.24	7.86
Excess Return	-0.23	-0.07	-0.31	-0.23	N/A	N/A
Downlowed LLC Torrect 0045 Index	2.40	2.00	40.07	0.57	44 57	0.04

0.0

25.0

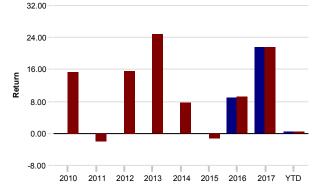
50.0

75.0

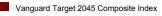
100.0

Return Percentile Rank

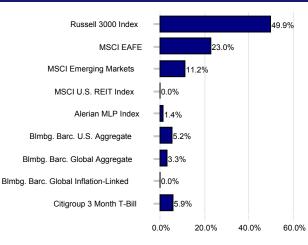








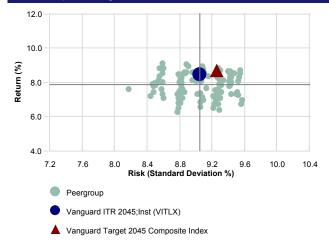
#### Investment Style Exposure (Returns based ) - 36 Months



## Vanguard ITR 2045;Inst (VITLX)

Vanguard Target 2045 Composite Index

#### Peer Group Scattergram - 36 Months





## Page 34

Rolling Percentile Ranking (Return)- 36 Months

6/18

Vanguard ITR 2050;Inst (VTRLX)

As of June 30, 2018

Total Assets :

Total Assets Date :

Gross Expense :

Net Expense :

Turnover :

Fund Information	n	Performance Summary (net of fees)				
Product Name :	Vanguard ITR 2050;Inst (VTRLX)		4	Year To	4	3
Fund Family : Ticker :	Vanguard Group Inc VTRLX		Quarter	Date	Year	Years
Peer Group :	IM Mixed-Asset Target 2050 (MF)	Vanguard ITR 2050;Inst (VTRLX)	0.97	0.42	10.58	8.44
Benchmark :	Vanguard Target 2050 Composite Index	Vanguard Target 2050 Composite Index	1.20	0.49	10.93	8.68
Fund Inception :	06/26/2015	Excess Return	-0.23	-0.07	-0.35	-0.24
Portfolio Manager :	Coleman/Nejman	Calendar Year Returns		Rolli	ng Percentile F	anking (Return)-

	32.00-									
	24.00-									
Return	16.00-									
Ret	8.00-									
	0.00-						-			
	-8.00 —	2010	2011	2012	2013	2014	2015	2016	2017	YTD

## Fund Characteristics As of 05/31/2018

5%

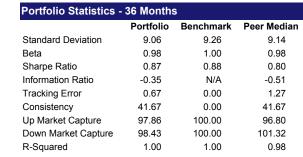
\$10,638 Million

05/31/2018

0.09%

0.09%

Total Securities	5
Avg. Market Cap	\$106,430 Million
P/E	22.32
P/B	4.55
Div. Yield	2.34%
Annual EPS	21.79
5Yr EPS	10.79
3Yr EPS Growth	10.34



## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2050.

## Vanguard ITR 2050;Inst (VTRLX) Vanguard Target 2050 Composite Index



#### MSCI U.S. REIT Index 0.0% Alerian MLP Index 4% Blmbg. Barc. U.S. Aggregate 5.9% Blmbg. Barc. Global Aggregate 3.3% Blmbg. Barc. Global Inflation-Linked

#### 0.0% Citigroup 3 Month T-Bill 5.5%

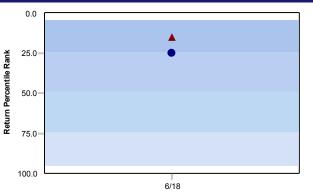
0.0%

20.0%

40.0%

60.0%

## 36 Months



5

Years

N/A

10.24

N/A

10

Years

N/A

7.86

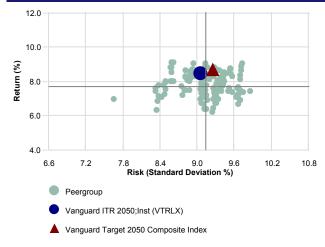
N/A

## Vanguard ITR 2050:Inst (VTRLX)

50.0%

Vanguard Target 2050 Composite Index

## Peer Group Scattergram - 36 Months





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Vanguard ITR 2055;Inst (VIVLX)

As of June 30, 2018

Total Assets :

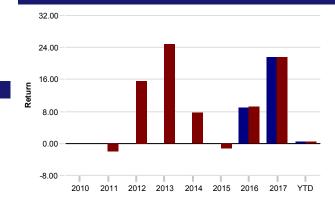
Total Assets Date :

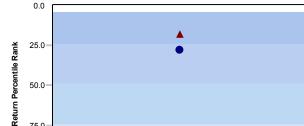
Gross Expense :

Net Expense :

Turnover :

Fund Information	1	Performance Summary (net of fees)				
Product Name :	Vanguard ITR 2055;Inst (VIVLX)			Year		
Fund Family :	Vanguard Group Inc		1 Quarter	To Date	1 Year	3 Years
Ticker : Peer Group :	VIVLX IM Mixed-Asset Target 2055 (MF)	Vanguard ITR 2055;Inst (VIVLX)	0.97	0.42	10.59	8.44
Benchmark :	Vanguard Target 2055 Composite Index	Vanguard Target 2055 Composite Index	1.20	0.49	10.93	8.68
Fund Inception :	06/26/2015	Excess Return	-0.23	-0.07	-0.34	-0.24
Portfolio Manager :	Coleman/Nejman	Calendar Year Returns		Rolli	ng Percentile F	Ranking (Return)-





6/18

5

Years

N/A

10.24

N/A

)- 36 Months

10

Years

N/A

N/A

N/A



6%

0.09%

\$4.541 Million

05/31/2018 0.09%

Total Securities	5
Avg. Market Cap	\$106,376 Million
P/E	22.33
P/B	4.55
Div. Yield	2.35%
Annual EPS	21.82
5Yr EPS	10.79
3Yr EPS Growth	10.35

Portfolio Statistics -	- 36 Months	5	
	Portfolio	Benchmark	Peer Median
Standard Deviation	9.03	9.26	9.27
Beta	0.97	1.00	0.99
Sharpe Ratio	0.88	0.88	0.81
Information Ratio	-0.36	N/A	-0.49
Tracking Error	0.67	0.00	1.27
Consistency	38.89	0.00	41.67
Up Market Capture	97.80	100.00	97.58
Down Market Capture	98.36	100.00	101.22
R-Squared	1.00	1.00	0.98

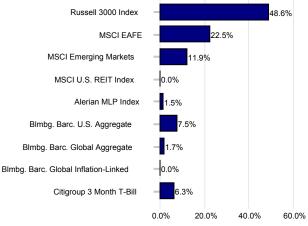
## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2055.

# Investment Style Exposure (Returns based ) - 36 Months

Vanguard ITR 2055;Inst (VIVLX)

Vanguard Target 2055 Composite Index



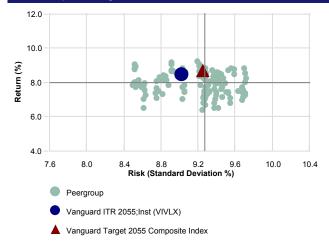
## Vanguard ITR 2055;Inst (VIVLX)

75.0

100.0

Vanguard Target 2055 Composite Index

#### Peer Group Scattergram - 36 Months





Vanguard ITR 2060;Inst (VILVX)

As of June 30, 2018

Fund Information	1	Performa
Product Name :	Vanguard ITR 2060;Inst (VILVX)	
Fund Family :	Vanguard Group Inc	
Ticker :	VILVX	<del></del>
Peer Group :	IM Mixed-Asset Target 2055 (MF)	Vanguard I
Benchmark :	Vanguard Target 2060 Composite Index	Vanguard
Fund Inception :	06/26/2015	Excess R
Portfolio Manager :	Coleman/Nejman	Calendar
Total Assets :	\$1,262 Million	30.00-
Total Assets Date :	05/31/2018	30.00
Gross Expense :	0.09%	24.00-
Net Expense :	0.09%	24.00
Turnover :	7%	10.00

#### Fund Characteristics As of 05/31/2018

Total Securities	5
Avg. Market Cap	\$106,070 Million
P/E	22.30
P/B	4.54
Div. Yield	2.35%
Annual EPS	21.83
5Yr EPS	10.79
3Yr EPS Growth	10.35

Portfolio Statistics - 36 Months						
	Portfolio	Benchmark	Peer Median			
Standard Deviation	9.06	9.26	9.27			
Beta	0.98	1.00	0.99			
Sharpe Ratio	0.87	0.88	0.81			
Information Ratio	-0.42	N/A	-0.49			
Tracking Error	0.65	0.00	1.27			
Consistency	41.67	0.00	41.67			
Up Market Capture	97.84	100.00	97.58			
Down Market Capture	98.83	100.00	101.22			
R-Squared	1.00	1.00	0.98			

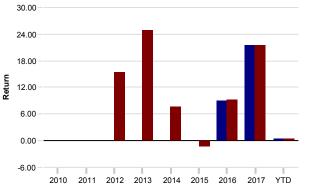
## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2060.

## erformance Summary (net of fees)

		Year				
	1	То	1	3	5	
	Quarter	Date	Year	Years	Years	
Vanguard ITR 2060;Inst (VILVX)	0.93	0.38	10.49	8.40	N/A	
Vanguard Target 2060 Composite Index	1.20	0.49	10.93	8.68	10.24	
Excess Return	-0.27	-0.11	-0.44	-0.28	N/A	

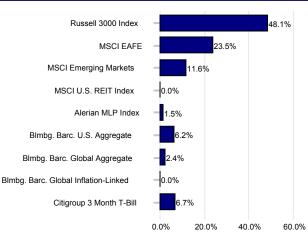




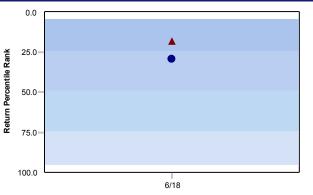
Vanguard ITR 2060;Inst (VILVX)

Vanguard Target 2060 Composite Index

## Investment Style Exposure (Returns based ) - 36 Months



## Rolling Percentile Ranking (Return)- 36 Months

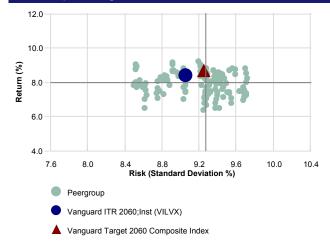


10 Years N/A N/A N/A

## Vanguard ITR 2060;Inst (VILVX)

▲ Vanguard Target 2060 Composite Index

## Peer Group Scattergram - 36 Months



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Vanguard ITR 2065;Inst (VSXFX)

As of June 30, 2018

Fund Information	
Product Name :	Vanguard ITR 2065;Inst (VSXFX)
Fund Family :	Vanguard Group Inc
Ticker :	VSXFX
Peer Group :	IM Mixed-Asset Target 2055 (MF)
Benchmark :	Vanguard Target 2060 Composite Index
Fund Inception :	07/12/2017
Portfolio Manager :	Coleman/Nejman
Total Assets :	\$64 Million
Total Assets Date :	05/31/2018
Gross Expense :	0.09%
Net Expense :	0.09%
Turnover :	N/A

#### Fund Characteristics As of 03/31/2018

Total Securities	5
Avg. Market Cap	\$103,296 Million
P/E	22.37
P/B	4.52
Div. Yield	2.34%
Annual EPS	20.89
5Yr EPS	10.53
3Yr EPS Growth	10.27

#### Portfolio Statistics - 36 Months Portfolio Benchmark Peer Median Standard Deviation N/A 9.26 9.27 N/A 1.00 0.99 Beta Sharpe Ratio N/A 0.88 0.81 Information Ratio N/A N/A -0.49 Tracking Error N/A 0.00 1.27 N/A 0.00 41.67 Consistency N/A 100.00 97.58 Up Market Capture Down Market Capture N/A 100.00 101.22 0.98 R-Squared N/A 1.00

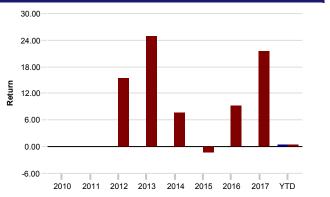
## Fund Objective

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2065.

## Performance Summary (net of fees)

		Year	
	1 Quarter	To Date	1 Year
Vanguard ITR 2065;Inst (VSXFX)	0.97	0.51	N/A
Vanguard Target 2060 Composite Index	1.20	0.49	10.93
Excess Return	-0.23	0.02	N/A

#### **Calendar Year Returns**



## Vanguard ITR 2065;Inst (VSXFX)

Vanguard Target 2060 Composite Index

#### No data found.

Rolling Percentile Ranking (Return)- 36 Months

3

Years

N/A

8.68

N/A

5

Years

N/A

10.24

N/A

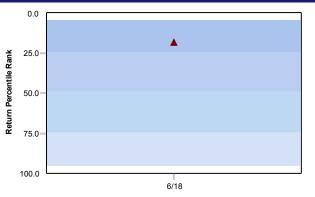
10

Years

N/A

N/A

N/A



## Vanguard ITR 2065;Inst (VSXFX)

▲ Vanguard Target 2060 Composite Index

## Peer Group Scattergram - 36 Months

