

June 30, 2021



## **North Dakota State Investment Board Insurance Trust**

**Investment Measurement Service  
Quarterly Review**

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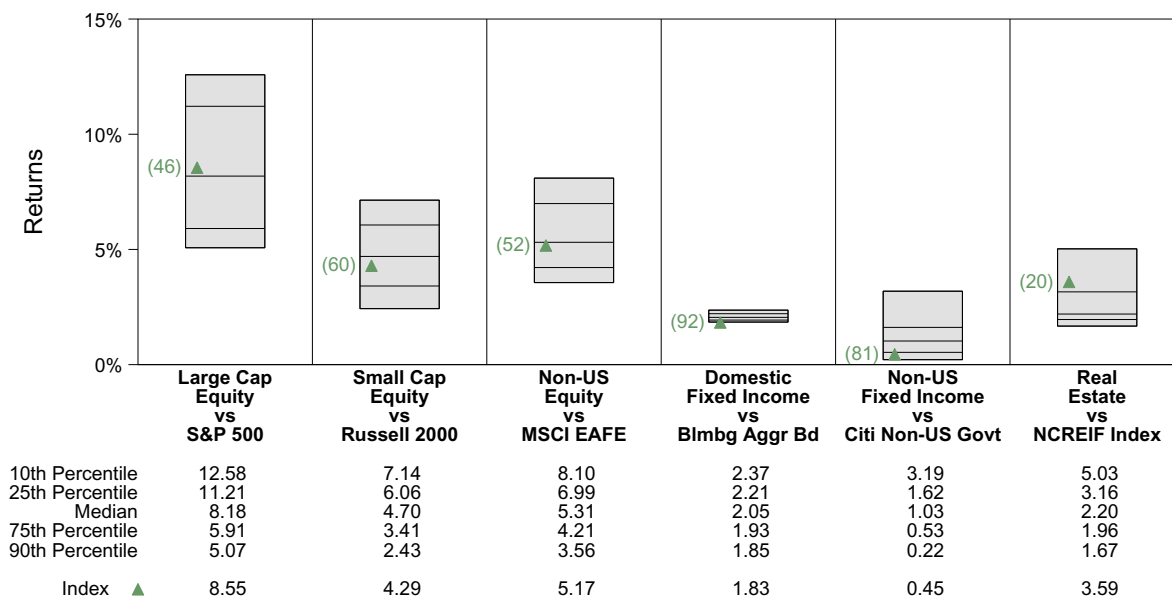
## Market Overview

### Active Management vs Index Returns

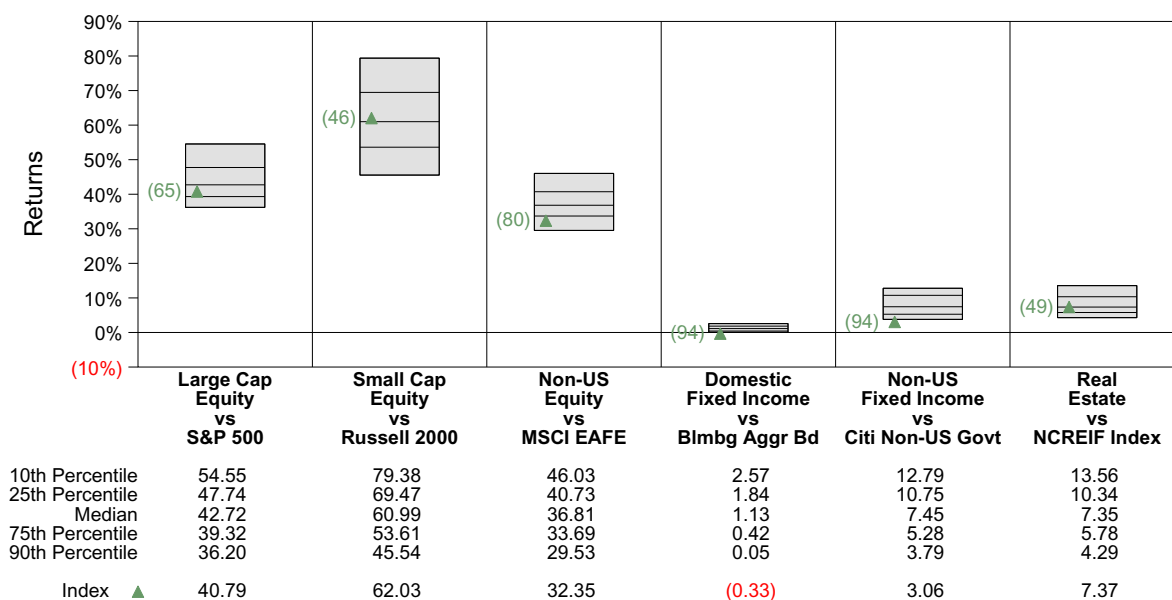
#### Market Overview

The charts below illustrate the range of returns across managers in Callan's Separate Account database over the most recent one quarter and one year time periods. The database is broken down by asset class to illustrate the difference in returns across those asset classes. An appropriate index is also shown for each asset class for comparison purposes. As an example, the first bar in the upper chart illustrates the range of returns for domestic equity managers over the last quarter. The triangle represents the S&P 500 return. The number next to the triangle represents the ranking of the S&P 500 in the Large Cap Equity manager database.

#### Range of Separate Account Manager Returns by Asset Class One Quarter Ended June 30, 2021



#### Range of Separate Account Manager Returns by Asset Class One Year Ended June 30, 2021



## GDP Recovers From Pandemic Plunge

### ECONOMY

**2** GDP grew at a 6.5% annual rate in 2Q21 and regained the level last seen in February 2020, before the COVID pandemic spurred a global shutdown in economic activity. But other key indicators like employment have yet to regain their pre-pandemic levels.

## Agg Gains 1.8% and Global Bonds Rally

### FIXED INCOME

**8** The Bloomberg Barclays US Aggregate Bond Index added 1.8%, with spread sectors outperforming treasuries. Global fixed income ex-U.S. (hedged) gained as global economies re-opened. Emerging market debt rallied in 2Q21; EM corporates fared better than sovereigns.

## Demand Is Strong; Fundraising Recovers

### PRIVATE CREDIT

**12** Institutional investors are attracted to private credit's yield and income-generating characteristics, fueling demand. Direct lending pricing is back to pre-COVID levels, and the liquidity injected into credit markets has muted the distressed opportunity set. Fundraising has rebounded.

## Strong Returns and Worries Over Future

### INSTITUTIONAL INVESTORS

**4** All institutional investor types saw big gains over the last year, although still trailing a 60%/40% benchmark. Corporate DB plans got a shot in the arm from the American Rescue Plan Act, including lower required contributions. Public DB plans saw huge gains in funded status.

## Big Gains for ODCE; REITs Top Equities

### REAL ESTATE/REAL ASSETS

**10** The NCREIF ODCE Index turned in its best quarter in 10 years. Income for all sectors in the index, except Hotels, remained positive. Vacancy rates in Industrial and Multifamily continued to compress as demand stayed strong. REITs topped equities globally and in the U.S.

## Thriving Amid Surging Recovery

### HEDGE FUNDS/MACs

**13** The median manager in the Callan Hedge Fund-of-Funds Database Group rose 2.7%, while the Callan Institutional Hedge Fund Peer Group gained 2.1%. The median managers of the Callan Multi-Asset Class (MAC) Style Groups generated positive returns, gross of fees.

## Global Markets Keep Setting New Records

### EQUITY

**6** The S&P 500 Index continued to hit record highs in 2Q21, just as it did in 1Q. Since March 2020, the S&P is up 96.1%, with all sectors posting gains over 45%. Government stimulus and a continued "return to normal" spurred positive sentiment in global markets.

## Activity Generally Rose Amid Rebound

### PRIVATE EQUITY

**11** Private equity fundraising and deal activity, with few exceptions, increased in 2Q21. A broad swath of new transaction records are anticipated in 2021, as "risk-on" sentiments drive frenetic M&A and IPO liquidity, and institutional investors' zeal for private equity continues.

## Index Posts Fourth Straight Quarterly Gain

### DEFINED CONTRIBUTION

**15** The Callan DC Index™ rose 3.8% in 1Q21. The Age 45 Target Date Fund posted a 4.6% gain, attributable to its higher equity allocation. Target date funds returned as the top destination for inflows. In a reversal from 4Q20, investors transferred assets out of relatively safer asset classes.

## Broad Market Quarterly Returns

### U.S. Equity Russell 3000



### Global ex-U.S. Equity MSCI ACWI ex USA



### U.S. Fixed Income Bloomberg Barclays Agg



### Global ex-U.S. Fixed Income Bloomberg Barclays Gbl ex US



Sources: Bloomberg Barclays, FTSE Russell, MSCI

## ... And We're Back!

ECONOMY | Jay Kloepfer

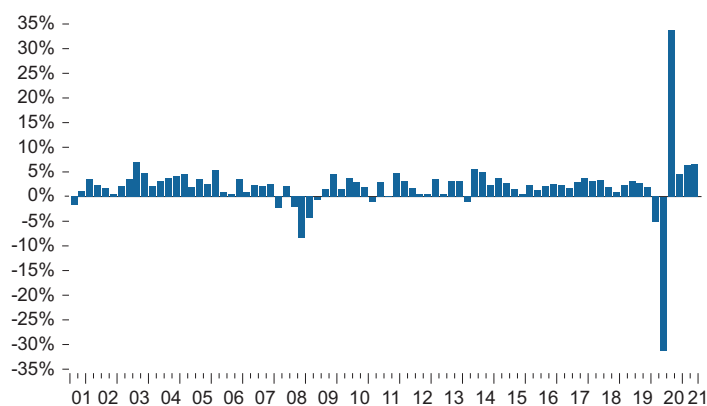
GDP grew at a 6.5% annual rate in 2Q21 and regained the level last seen in February 2020, before the COVID pandemic spurred a global shutdown in economic activity. Our focus during the pandemic has been on the *level* of economic indicators—GDP, employment, unemployment, consumer spending, imports and exports, and personal income. Traditional measures such as annualized GDP growth lost meaning around the plunge and sharp recovery that defined the shutdown and reopening experience. Reaching the previous level of real GDP is a major milestone; now, GDP growth will regain some meaning as a way to track economic progress. Other key indicators like employment have yet to regain their pre-pandemic levels. In fact, employment has been the measure that took the greatest hit and has the furthest to go before claiming full recovery. We lost over 22 million jobs in the U.S. in March and April of 2020; while we have gained 15.5 million back, that's still almost 7 million short. The lost jobs were spread across many industries, but the deepest losses and the greatest deficits left to recover are in lower-paid sectors with concentrations of hourly jobs, including hospitality and travel-related industries.

The gains in GDP in 1Q and 2Q were startling and robust, yet still a bit less than economists expected. The Federal Reserve issued a forecast of 7% growth for the year in June 2021, but the 1Q figure was revised down to 6.3%. Growth in 3Q is expected to be stronger than 2Q, but consensus expectations for the year are coming down from 7%. Restocking depleted inventories was expected to be the main driver of growth this year, along with incredibly robust spending by consumers, but supply bottlenecks led to an actual decline in private inventory investment in 2Q, particularly in retail goods. Economists now estimate that in the second half of the year, inventory building is expected to account for as much as two-thirds of GDP growth.

Supply bottlenecks are really the story of the year for many markets in the global economy, both in goods such as building materials, commodities, and auto parts (such as vital computer chips), and in labor for a number of industries, in particular

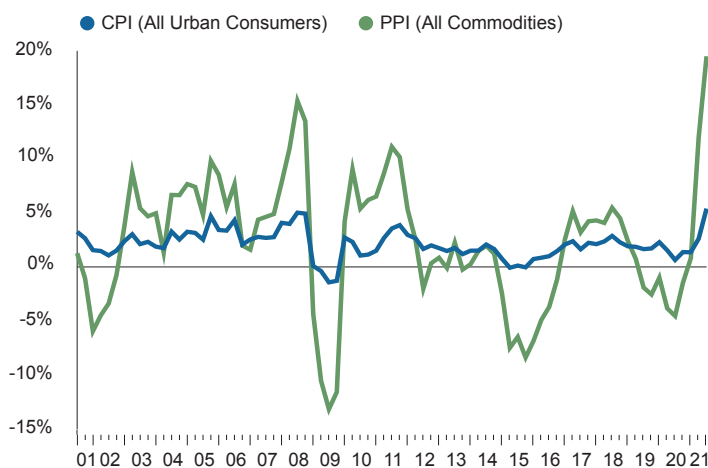
### Quarterly Real GDP Growth

(20 Years)



Source: Bureau of Economic Analysis

### Inflation Year-Over-Year



Source: Bureau of Labor Statistics

those originally hit hardest like hotels, restaurants, retail, and travel. The stories told by businesses unable to fill multiple open positions contrast sharply with the 7 million job deficit. So what gives? Fueling personal consumption demand has been a singular economic period where the steepest recession in terms of job losses and GDP decline in 70 years was accompanied by NO decline in total personal income. In a normal downturn, as individuals lose jobs and companies close their doors, spending sags as consumers and companies cut back. Unprecedented policy actions to support both individuals and businesses kept



incomes in aggregate from falling at all, yet shutdowns held back supply in the face of almost no decrease in demand, at least for goods like building supplies, technology, communications, and computer services.

These kinks in supply have led to a spike in headline inflation: the year-over-year Consumer Price Index came in at 5.4% in June, while the much-more-volatile Producer Price Index shot up 19.5% compared to June 2020. After complete or partial shutdowns around the globe, many industries cannot simply restart production and build supply to meet surging demand instantaneously. Producer prices had been tumbling for more than a year prior to the pandemic, and then suffered another shock with the almost-forgotten plunge in energy prices in 1Q20 as Saudi oil producers entered into a price war to establish global energy supply discipline. The price of building materials, specifically timber, became the metaphor for inflation fears, reaching the point of commentary by none other than the chairman of the Federal Reserve. As incomes were maintained and interest in home renovation soared during the pandemic, demand for lumber surged while product from lumber mills was constrained first by total shutdowns and then production processes limited by social distancing protocols. Timber prices shot up over 300% by the start of June 2021, reaching an all-time high of \$1,515 per thousand board feet. As production caught up and demand finally eased, prices have since fallen by over \$1,000 and are back at 2018 levels (but still up 200% from spring 2020). Such volatility may be extreme, but timber really may be the appropriate metaphor for transitory price increases that will work through many industries and labor markets in the U.S. and global economies throughout 2021 and into 2022.

### The Long-Term View

Index	2Q21	Periods Ended 6/30/21			
		1 Yr	5 Yrs	10 Yrs	25 Yrs
U.S. Equity					
Russell 3000	8.2	44.2	17.9	14.7	9.9
S&P 500	8.5	40.8	17.6	14.8	9.8
Russell 2000	4.3	62.0	16.5	12.3	9.3
Global ex-U.S. Equity					
MSCI EAFE	5.2	32.4	10.3	5.9	5.2
MSCI ACWI ex USA	5.5	35.7	11.1	5.4	--
MSCI Emerging Markets	5.0	40.9	13.0	4.3	--
MSCI ACWI ex USA Small Cap	6.4	47.0	12.0	7.0	6.6
Fixed Income					
Bloomberg Barclays Agg	1.8	-0.3	3.0	3.4	5.1
90-Day T-Bill	0.0	0.1	1.2	0.6	2.2
Bloomberg Barclays Long G/C	6.4	-1.9	5.4	7.3	7.5
Bloomberg Barclays GI Agg ex US	0.9	4.6	1.6	1.0	3.8
Real Estate					
NCREIF Property	3.6	7.4	6.1	8.8	9.1
FTSE Nareit Equity	12.0	38.0	6.3	9.4	10.2
Alternatives					
CS Hedge Fund	3.0	16.6	5.6	4.2	7.0
Cambridge PE*	9.5	54.2	18.8	15.1	15.5
Bloomberg Commodity	13.3	45.6	2.4	-4.4	1.3
Gold Spot Price	3.3	-1.6	6.1	1.7	6.3
Inflation – CPI-U	2.6	5.4	2.4	1.9	2.2

\*Data for most recent period lags by a quarter. Data as of 3/31/21.

Sources: Bloomberg, Bloomberg Barclays, Bureau of Economic Analysis, Credit Suisse, FTSE Russell, MSCI, NCREIF, Refinitiv/Cambridge, S&P Dow Jones Indices

### Recent Quarterly Economic Indicators

	2Q21	1Q21	4Q20	3Q20	2Q20	1Q20	4Q19	3Q19
Employment Cost–Total Compensation Growth	2.9%	2.6%	2.5%	2.4%	2.7%	2.8%	2.7%	2.8%
Nonfarm Business–Productivity Growth	5.4%	5.4%	-3.8%	4.2%	11.2%	-0.8%	1.6%	0.3%
GDP Growth	6.5%	6.4%	4.3%	33.4%	-31.4%	-5.0%	2.4%	2.6%
Manufacturing Capacity Utilization	75.1%	74.4%	74.0%	71.9%	64.3%	74.4%	75.4%	75.7%
Consumer Sentiment Index (1966=100)	85.6	80.2	79.8	75.6	74.0	96.4	97.2	93.8

Sources: Bureau of Economic Analysis, Bureau of Labor Statistics, Federal Reserve, IHS Economics, Reuters/University of Michigan

# Strong Returns Over Last Year and Concerns About the Path Ahead

## INSTITUTIONAL INVESTORS

- Institutional investors continued to show strong gains over the past year, with double-digit returns.
- Nonprofits were again the top performers, followed closely by public defined benefit (DB) plans and Taft-Hartley plans. Corporate DB plans, likely due to their higher fixed income allocations, lagged but still gained nearly 20%.
- All but corporate DB plans topped a 60% stocks/40% bonds benchmark.
- Over longer time periods, investor returns were generally in line with that benchmark.
- But low projected returns put downward pressure on ROA assumptions. Weaker return projections may derail their expressed desire to bring in risk, spurring further interest in alternatives exposures and total fund leverage discussions.
- There is growing interest in 30-year capital markets assumptions to justify more balanced portfolios.

### Corporate DB plans

- There was an uptick in corporate plan asset/liability (A/L) studies in 2Q21, continuing a surge that began in 2020.
- The American Rescue Plan Act (ARPA), a \$1.9 trillion COVID-19 stimulus bill, also provided a shot in the arm to corporate plans: they saw lower liabilities, higher funded status, and lower required contributions.

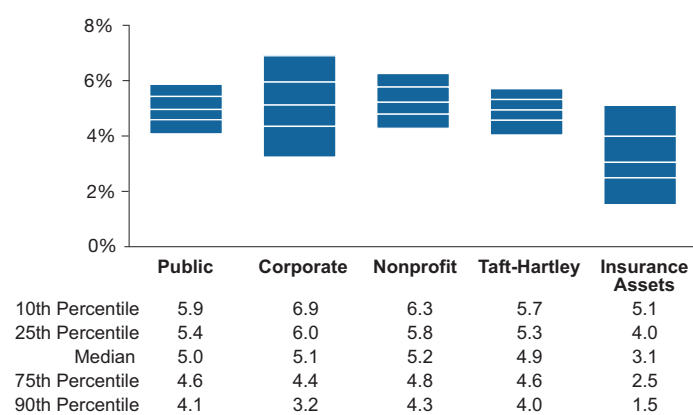
### Public DB plans

- Public plans saw improvements in funded status due to strong returns at a scale not seen in decades—many experienced greater than 10% increases.

### DC plans

- Defined contribution (DC) plan glidepaths are being reassessed in light of lower short-term capital markets assumptions. The long-term equilibrium did not change, but it is coming from a lower starting point.

### Quarterly Returns, Callan Database Groups



Source: Callan

### Callan Database Median and Index Returns\* for Periods Ended 6/30/21

Database Group	Quarter	Year-to-Date	1 Year	3 Years	5 Years	10 Years
Public Database	5.0	8.6	25.8	11.0	10.7	8.6
Corporate Database	5.1	5.6	19.6	11.2	10.1	8.5
Nonprofit Database	5.2	9.1	28.1	11.6	11.2	8.5
Taft-Hartley Database	4.9	8.6	25.5	10.9	10.8	9.0
Insurance Assets Database	3.1	3.4	11.0	7.3	6.0	5.3
All Institutional Investors	5.1	8.4	25.6	11.2	10.7	8.6
Large (>\$1 billion)	5.0	8.6	25.6	11.3	10.8	8.9
Medium (\$100mm - \$1bn)	5.1	8.1	25.3	11.2	10.7	8.6
Small (<\$100 million)	5.1	8.5	25.9	11.0	10.6	8.4

\*Returns less than one year are not annualized.

Source: Callan. Callan's database includes the following groups: public defined benefit (DB) plans, corporate DB plans, nonprofits, insurance assets, and Taft-Hartley plans. Approximately 10% to 15% of the database constituents are Callan's clients. All database group returns presented gross of fees. Past performance is no guarantee of future results. Reference to or inclusion in this report of any product, service, or entity should not be construed as a recommendation, approval, affiliation, or endorsement of such product, service, or entity by Callan.

- The Government Accountability Office (GAO) has been asked to review the target date fund market over concerns with risk and fee levels.

### Nonprofits

- Subdued expectations for capital markets returns are challenging both the risk tolerance of nonprofits and the sustainability of established spending rates.
- Some are dissatisfied with private real assets, hedge funds, and the presence of any fixed income; significant portfolio reconstruction is on the table.
- But hedge funds and other absolute return strategies may gain a new appreciation when compared to dismal fixed income expectations as a way to diversify the growth risk with less of an expected return penalty.

### All institutional investors

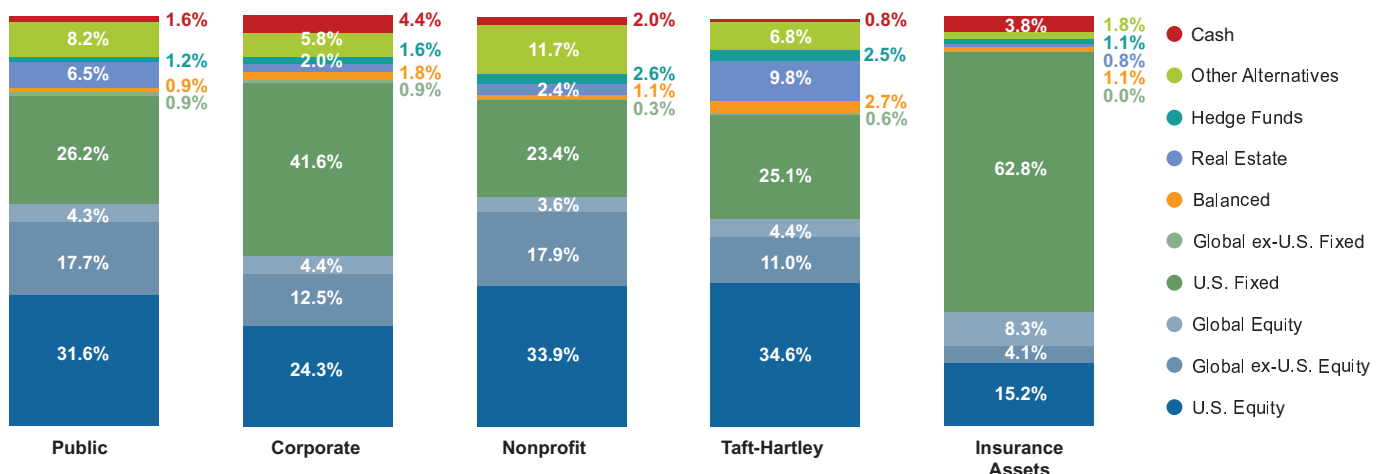
- Investors have demonstrated remarkable discipline in rebalancing between growth and value managers, and U.S. and global ex-U.S. equity.
- Fixed income structures focus on the role of the asset class—to diversify equity, to serve as a flight to quality, to provide liquidity and interest rate exposure—balanced against the desire for return in a very low-yield environment.
- Some investors are focused on creative reconstruction of “core” fixed income, away from lower-returning segments of the Bloomberg Barclays US Aggregate Bond Index.

- Real assets see renewed interest with growing concerns for inflation.
- But investors are questioning the continued inclusion of past real assets stalwarts: natural resources, energy, MLPs, and commodities.
- Will the inflation of the future come from the same sources as the global energy complex evolves? Are we hedging inflation or outperforming it?

### Key issues of concern

- In addition to common concerns about low return expectations, investors have started discussions around both environmental, social, and governance (ESG) issues and diversity, equity, and inclusion (DEI).
- In a Callan poll, the majority expect to return to their offices by year-end, but a significant number are still uncertain about when that will happen.
- Other poll results:
  - **Public DB plans:** More than 50% have taken steps in regards to DEI issues.
  - **Corporate DB plans:** Many clients are evaluating how to manage improved funded status.
  - **DC plans:** A higher share of DC clients have taken ESG actions compared to any other investor type.
  - **Nonprofits:** Changes to spending policies are a notable concern in discussions with our clients.

### Average Asset Allocation, Callan Database Groups



Note: charts may not sum to 100% due to rounding  
Source: Callan

# Equity

## U.S. Equities

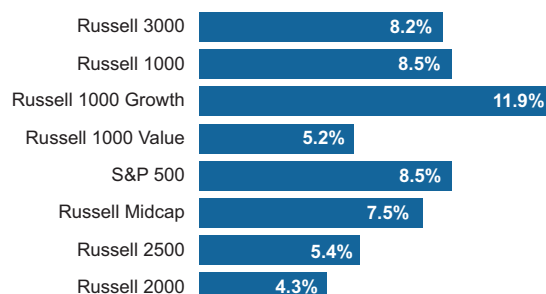
### Markets keep setting all-time highs

- The S&P 500 Index continued to hit record highs in 2Q21.
- The 12-month rebound after the market low in March 2020 for the S&P 500 surpasses the 12-month GFC and Dot-Com Bubble rebounds. Since March 2020, the S&P is up 96.1%, with all sectors posting gains over 45%; Energy +140.6%.
- All sectors posted positive returns except for Utilities. 2Q21 top sectors were Technology and Energy. For the last 12 months, the two best were Financials and Industrials.

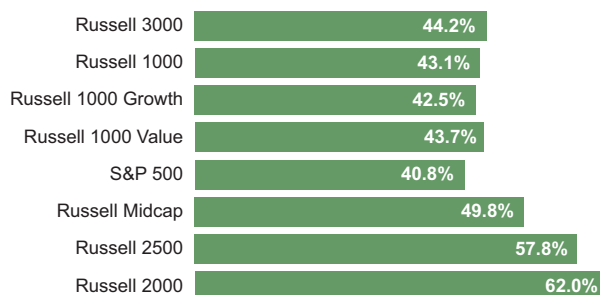
### Market leadership changed in 2Q21

- Vaccine news/roll-outs provided a catalyst for market rotation into value/cyclicals in 4Q20 and 1Q21.
- In June 2021, the Fed moved up its timeline for rate hikes, prompting a shift back to growth stocks.
- Generally, growth outperformed value during the quarter as investors contemplated a “transitory” inflationary environment. The only exception was in small caps, where the Russell 2000 Growth Index underperformed the Russell 2000 Value. Continued outperformance of meme stocks helped small value.
- Larger cap stocks outperformed smaller cap stocks, reversing the recent trend of small cap outperformance.
- Starting in 2005, cumulative returns for broad large cap and small cap indices were in lock-step, until 4Q18.
- In 2Q21, Russell 1000 increased by 8.5%, ending a two-quarter streak in which small cap stocks outperformed large.

## U.S. Equity: Quarterly Returns



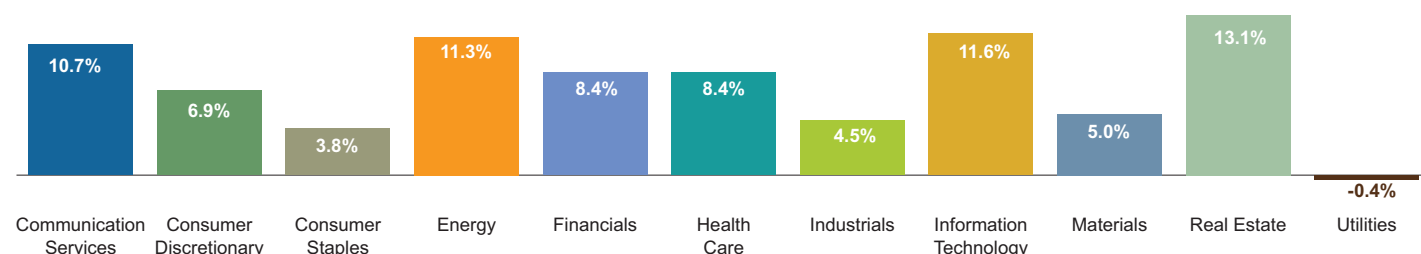
## U.S. Equity: One-Year Returns



Sources: FTSE Russell and S&P Dow Jones Indices

- After cyclical stocks led the market for the prior two quarters, mega-cap Technology stocks outperformed in 2Q. This helped the Russell 1000 beat the Russell 2000.
- Historically, small cap stocks have outperformed in the first 12 months of market recoveries. They tend to underperform in the ensuing 12 months.

## Quarterly Performance of Industry Sectors



Source: S&P Dow Jones Indices

## Global Equity

### Strong growth despite pockets of COVID-19 outbreaks

- Government stimulus and a continued “return to normal” spurred positive sentiment.
- Risk assets lost some steam amid concerns around the Delta variant.
- Small cap was largely in-line with large, except within emerging markets where smaller companies benefited from rebounds within industrials and basic materials.
- Despite return dispersions within regions, developed and emerging markets performed similarly over the quarter.

### Market shifts away from cyclicals

- Expectations remain positive, but cooler than previous quarters, causing cyclical stocks to lag.
- Factor performance showed a preference for quality and growth, a divergence from last quarter.

### U.S. dollar vs. other currencies

- The U.S. dollar was mixed versus other currencies and did not contribute meaningfully to global ex-U.S. results.

### Growth vs. value

- Growth overturned value, except in emerging markets, where commodity-rich countries rallied.

### Uneven global vaccination rates

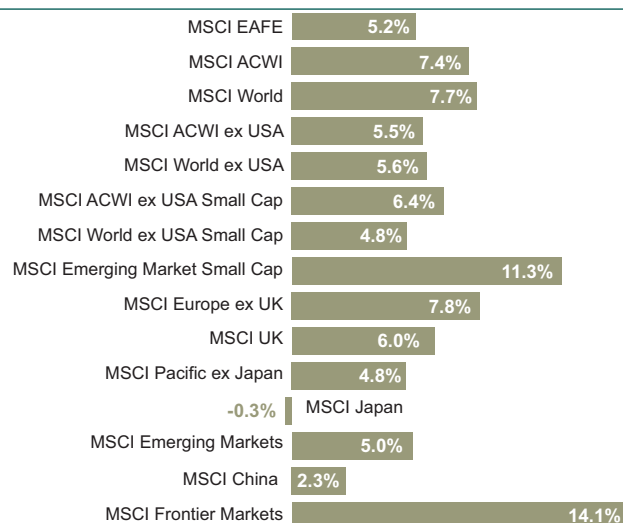
- North America and Europe are leading in vaccinations, while the rest of the world is still lagging.
- YTD equity market returns reflect higher returns from countries with high vaccination rates, and vice versa:
  - MSCI North America: +14.9%
  - MSCI Europe: +11.8%
  - MSCI EM Latam: +8.9%
  - MSCI EM Asia: +7.5%
  - MSCI China: +2.3%

### Potential for re-opening trade ex-U.S.

- Historically, small cap, value, and cyclicals thrive in recoveries as manufacturing resumes and retail sales rise.
- GDP is expected to rebound as vaccination rates increase and economies continue to re-open.

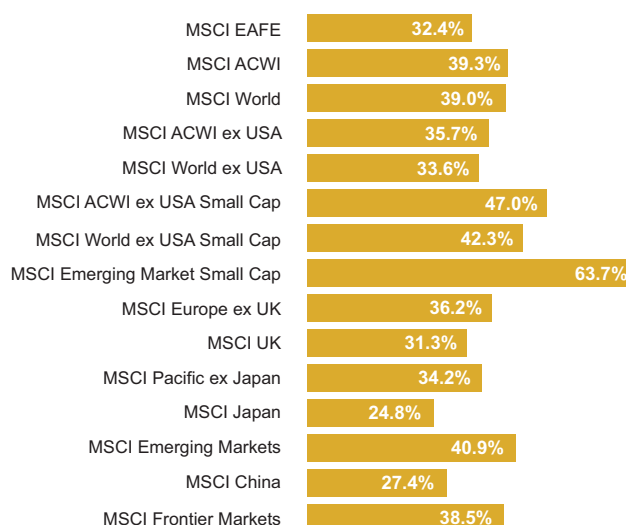
## Global ex-U.S. Equity: Quarterly Returns

(U.S. Dollar)



## Global ex-U.S. Equity: One-Year Returns

(U.S. Dollar)



Source: MSCI

# Fixed Income

## U.S. Fixed Income

### U.S. Treasury yield curve flattens

- The 10-year U.S. Treasury yield closed 2Q21 at 1.45%, a decline of 29 bps from 1Q21.
- The short-end of the curve remained anchored, though a hawkish tone from the Fed's June meeting rallied rates on the long end.
- TIPS outperformed nominal U.S. Treasuries given strong relative performance in April and May.

### Bloomberg Barclays Aggregate rallies

- The Bloomberg Barclays US Aggregate Bond Index added 1.8% in 2Q21, with spread sectors outperforming treasuries, but is negative over the last year.
- Demand for corporate credit remained strong, with spreads tightening 11 bps over the quarter, to 80 bps.

### High yield rally continues on lowered default expectations

- High yield (HY) bonds outperformed investment grade (IG) in 2Q adjusted for duration, but underperformed IG in absolute terms.
- Leveraged loans gained 1.5% for the quarter, driven by favorable supply/demand dynamics.

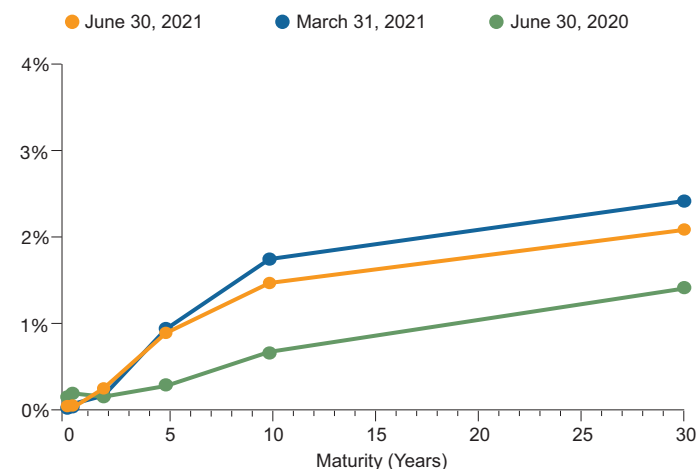
### Munis outperform Treasuries as economies re-open

- Municipals topped treasuries, as municipal yields rose less than treasury yields.
- The municipal market was supported by the American Rescue Plan Act.

### Tight corporate spreads and fall in default rate

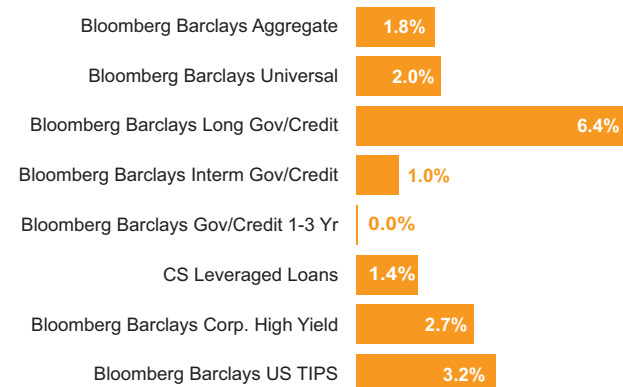
- Corporate credit spreads have not traded this tight since 1H07.
- Default rate is declining from the near-term highs reached during the pandemic. Fed's support provided issuers the opportunity to term out their existing debt and extend maturities, while accelerating growth and better-than-expected earnings were tailwinds to debt holders.

## U.S. Treasury Yield Curves



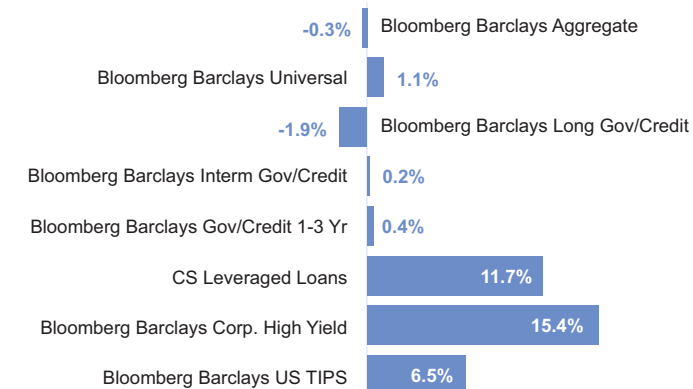
Source: Bloomberg

## U.S. Fixed Income: Quarterly Returns



Sources: Bloomberg Barclays and Credit Suisse

## U.S. Fixed Income: One-Year Returns



Sources: Bloomberg Barclays and Credit Suisse

## FIXED INCOME (Continued)

- 2021 marks the most modest first half of a calendar year for defaults/distressed transactions since 2011, according to JPMorgan.
- Some market participants have lowered their rolling 12-month default forecasts to a range of <1% to 2.5% for 2021.

### Global Fixed Income

#### Global fixed income posts positive returns

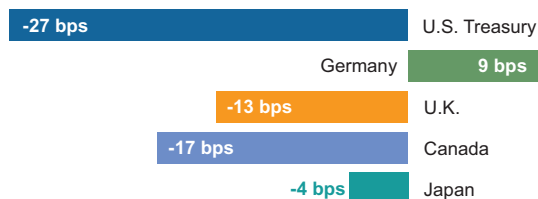
- Global fixed income ex-U.S. (hedged) gained in 2Q21 as global economies re-opened, albeit underperforming the US Aggregate.
- The U.S. dollar was mixed against developed currencies, up 0.3% versus the yen; down 1.1% vs. the euro, 1.3% vs. the Canadian dollar, and 2.0% vs. the Swiss franc.

#### Emerging market debt gains

- Emerging market debt rallied in 2Q21, with the JPM EMBI Global Diversified gaining 4.1% in hard currency, as falling U.S. rates spilled into emerging markets, and 3.5% in local currency. However, both remained down YTD, -0.7% and -3.4%, respectively.
- The U.S. dollar generally depreciated versus emerging currencies. Notables include -1.5% vs. Chinese yuan and -13.4% vs. Brazilian real.
- EM corporates fared better than sovereigns amid improving corporate fundamentals and global economic recovery.
- Local currency index (GBI-EM Global Diversified) slightly trailed hard currency, as real GDP growth expectations increased.

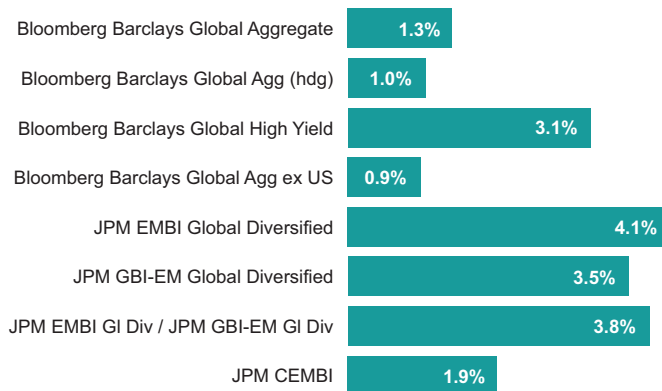
### Change in 10-Year Global Government Bond Yields

#### 1Q21 to 2Q21



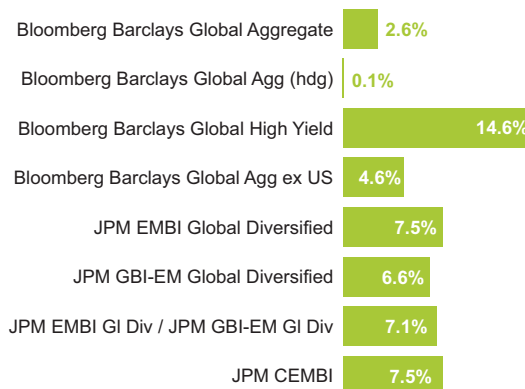
Source: Bloomberg Barclays

### Global Fixed Income: Quarterly Returns



Sources: Bloomberg Barclays and JPMorgan Chase

### Global Fixed Income: One-Year Returns



Sources: Bloomberg Barclays and JPMorgan Chase



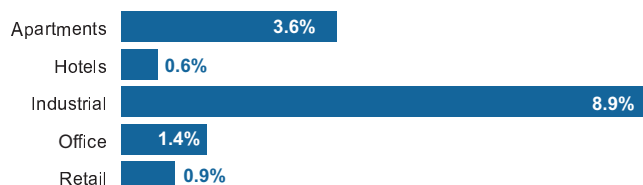
# Strong Quarter for Real Estate, Both Public and Private

REAL ESTATE/REAL ASSETS | Munir Iman

## Strongest return for ODCE in 10 years

- The recovery gained steam as the NCREIF ODCE Index posted its strongest quarterly return in 10 years; Industrial remains the best performer.
- Income stayed positive except in the Hotel sector.
- Niche sectors such as self-storage and life sciences continued to be accretive.
- Vacancy rates kept compressing in Industrial and Multifamily as demand stayed strong.
- Net operating income stayed negative for Office and Retail but a recovery continued.
- Tenants were poised to return to work but the Delta variant may change that.
- Pent-up demand is evident through foot traffic in retail centers.
- 2Q21 rent collections showed relatively stable income throughout the quarter in the Industrial, Apartment, and Office sectors; the Retail sector remained challenged, with regional malls impacted most heavily.
- Class A/B urban apartments were relatively strong, followed by Industrial and Office.
- Demand outpaced supply as new construction of preleased Industrial and Multifamily occurred.

## Sector Quarterly Returns by Property Type



Source: NCREIF

## Global REITs outpace broader equity market recovery

- Global REITs outperformed in 2Q21, gaining 9.2% compared to 7.7% for global equities (MSCI World).
- U.S. REITs rose 12.0% in 2Q21, beating the S&P 500 Index, which gained 8.5%.
- Globally, REITs are trading above NAV with the exception of those in Hong Kong, the United Kingdom, and Continental Europe.
- Ongoing volatility in REIT share prices offers opportunities to purchase mispriced securities, individual assets from REIT owners, and discounted debt.
- It also gives investors the potential to lend to companies and/or execute take-privates of public companies.

## Callan Database Median and Index Returns\* for Periods Ended 6/30/21

Private Real Assets	Quarter	Year to Date	1 Year	3 Years	5 Years	10 Years	15 Years
<b>Real Estate ODCE Style</b>	<b>2.1</b>	<b>4.7</b>	<b>6.6</b>	<b>5.1</b>	<b>6.2</b>	<b>8.9</b>	<b>5.4</b>
NFI-ODCE (value wt net)	3.7	5.7	7.1	4.6	5.6	8.6	5.3
NCREIF Property	3.6	5.4	7.4	5.5	6.1	8.8	7.0
NCREIF Farmland	0.6	1.2	2.4	3.5	4.7	9.8	10.8
NCREIF Timberland	1.7	2.5	3.1	2.1	2.7	4.7	5.1
<b>Public Real Estate</b>							
<b>Global Real Estate Style</b>	<b>10.5</b>	<b>16.4</b>	<b>34.9</b>	<b>9.9</b>	<b>7.8</b>	<b>8.5</b>	<b>6.2</b>
FTSE EPRA Nareit Developed	9.2	15.5	33.6	6.4	5.0	6.4	4.5
<b>Global ex-U.S. Real Estate Style</b>	<b>8.3</b>	<b>9.5</b>	<b>32.1</b>	<b>9.0</b>	<b>7.8</b>	<b>8.3</b>	<b>5.8</b>
FTSE EPRA Nareit Dev ex US	6.9	9.0	29.0	4.8	5.7	5.1	3.7
<b>U.S. REIT Style</b>	<b>12.4</b>	<b>21.7</b>	<b>36.8</b>	<b>12.6</b>	<b>8.1</b>	<b>10.5</b>	<b>7.9</b>
EPRA Nareit Equity REITs	12.0	22.0	38.0	10.1	6.3	9.4	7.1

\*Returns less than one year are not annualized.

Sources: Callan, FTSE Russell, NCREIF



# Record-Setting Expectations

## PRIVATE EQUITY | Gary Robertson

**Fundraising** ► Based on preliminary data, final closes for private equity partnerships in 2Q21 totaled \$231 billion of commitments in 502 partnerships. (Unless otherwise noted, all data in this commentary come from PitchBook.) The dollar volume was flat with 1Q21, but the number of funds rose 10%. For the first half, 2021 is running 18% ahead of a year ago, with the number of funds up by 9%. We expect that the second half of 2021 will continue to be strong as general partners are rapidly deploying their current funds, and follow-on fund sizes have been increasing an average of more than 50%.

**Buyouts** ► New buyout transactions by count declined by 15% from 1Q21 to 2,401, but disclosed deal value increased 3% to \$127 billion. Average buyout prices rose to 13.0x EBITDA in the first half, compared to 12.7x for 2020. Average leverage multiples rose to 7.5x.

**VC Investments** ► New rounds of financing in venture capital companies totaled 9,353, with \$169 billion of announced value. The number of investments preliminarily fell 10% from 1Q21, but announced value rose 14%. Venture prices rose across the board during 1H21, with Series D rounds having the largest (129%) increase relative to 2020 average prices.

### Funds Closed 1/1/21 to 6/30/21

Strategy	No. of Funds	Amt (\$mm)	Share
Venture Capital	561	108,323	24%
Growth Equity	77	44,466	10%
Buyouts	233	233,971	51%
Mezzanine Debt	8	9,496	2%
Distressed	15	18,102	4%
Energy	3	1,967	0%
Secondary and Other	49	40,311	9%
Fund-of-Funds	14	4,281	1%
<b>Totals</b>	<b>960</b>	<b>460,917</b>	<b>100%</b>

Source: PitchBook (Figures may not total due to rounding.)

**Exits** ► There were 520 private M&A exits of private equity-backed companies, with disclosed values totaling \$110 billion. The preliminary private sale count fell 2% and the announced dollar volume dropped 24%. There were 106 private equity-backed IPOs in 2Q21 raising an aggregate \$34 billion, up 25% and 31%, respectively, from 1Q21.

Venture-backed M&A exits totaled 601 transactions with disclosed value of \$49 billion. The number of sales declined 8% from 1Q21, but announced value rose 48%. There were 167 VC-backed IPOs in 2Q21 with a combined float of \$73 billion; the count was up 7% and the issuance grew 70%.

### Private Equity Performance (%) (Pooled Horizon IRRs through 3/31/21\*)

Strategy	3 Months	1 Year	3 Years	5 Years	10 Years	15 Years	20 Years	25 Years
All Venture	16.4	81.9	32.9	23.6	19.0	14.5	9.5	28.1
Growth Equity	8.8	63.8	25.7	21.6	16.0	14.8	13.4	14.2
All Buyouts	7.3	47.0	17.9	17.8	13.8	12.5	13.2	12.8
Mezzanine	4.3	21.1	10.1	11.6	11.5	10.8	9.8	9.6
Credit Opportunities	6.2	23.1	5.2	8.3	7.7	8.9	9.8	9.3
Control Distressed	9.3	42.4	11.3	12.3	10.7	10.2	11.2	10.1
<b>All Private Equity</b>	<b>9.6</b>	<b>55.0</b>	<b>21.1</b>	<b>18.8</b>	<b>14.5</b>	<b>12.8</b>	<b>12.0</b>	<b>13.8</b>
S&P 500	6.2	56.4	16.8	16.3	13.9	10.0	8.5	8.9
Russell 3000	6.4	62.5	17.1	16.6	13.8	10.1	8.9	8.8

Note: Private equity returns are net of fees. Sources: Refinitiv/Cambridge and S&P Dow Jones Indices

\*Most recent data available at time of publication

Note: Transaction count and dollar volume figures across all private equity measures are preliminary figures and are subject to update in subsequent versions of the *Capital Markets Review* and other Callan publications.

# Demand Stays Strong and Fundraising Ramps Up

PRIVATE CREDIT | Catherine Beard

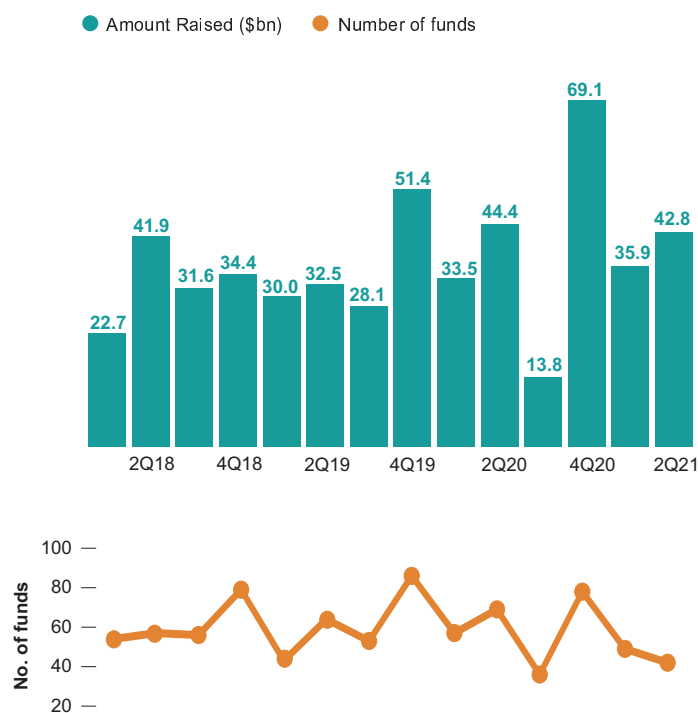
## Attractive attributes

- Yield and income-generating characteristics remain compelling in a low-rate environment.
- Alpha generation can be magnified through strategies that extract a complexity premium.

## Direct lending pricing back to pre-COVID levels

- Unlevered direct lending historically generated premiums of 150-200 bps over traditional high yield and leveraged loans, with downside protection.
- While pricing widened in the early stages of the COVID-19 dislocation, pricing and structures have circled back to pre-pandemic levels.
- Direct lending portfolio valuations are back to 2019 levels.

## Private Credit Fundraising (\$bn)



Source: Preqin

## Continued evolution of pockets of opportunity

- Areas of opportunity in private credit include those that offer diversification through differentiated collateral and/or areas of low correlation to public markets. This includes strategies such as specialty finance, asset-backed lending, and niche areas such as life science lending and AI-propelled structured credit.
- Government stimulus has driven a quick compression in leveraged loan and high yield spreads despite elevated levels of unemployment and economic uncertainty.
- While the Phase I dislocation opportunity to purchase quality paper in liquid markets has passed for the time being, longer-term Phase II and III opportunities are growing due to the deeper economic impact of the pandemic.
- An injection of significant liquidity into the credit markets has muted the corporate distressed opportunity in the U.S., but we do see managers investing in other pockets of distress that are emerging in the U.S. and abroad.

## Slowdown in fundraising in late 2020 has reversed

- Private credit fundraising tapered off in 3Q20 due primarily to COVID-related market disruption.
- Fundraising significantly rebounded in 4Q20 and into the first half of 2021.
- Senior debt and mezzanine capital continue to see strong fundraising activity in 2021.
- Also seeing a ramp-up of fundraising in specialty finance, asset-backed lending, and niche areas such as venture debt
- Ares, AXA, Blackstone, Goldman Sachs, and HPS led private credit fundraising in 2020.
- Continue to see strong private credit fundraising activity from the large credit shops as well as new private credit offerings from traditional fixed income managers

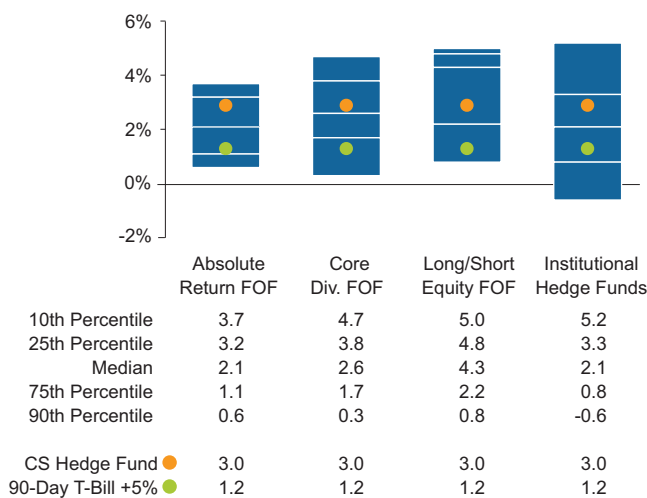
# Hedge Funds Thrive Amid Surging Recovery

HEDGE FUNDS/MACs | Jim McKee

Amid the quarter's strengthening economic setting, albeit with rising inflation risks, most hedge funds benefited from healthy capital markets enabled by massive central bank liquidity. Representing a raw collection of hedge funds reporting performance without implementation costs, the Credit Suisse Hedge Fund Index (CS HFI) gained 3.0% in 2Q21. As an actual hedge fund portfolio net of all fees, the median manager in the Callan Hedge Fund-of-Funds (FOF) Peer Group advanced 2.7%.

Serving as a proxy for large, broadly diversified hedge funds with low-beta exposure to equity markets, the median Callan Institutional Hedge Fund Peer Group added 2.1%. Within this style group of 50 managers, the average Hedged Credit fund gained the most (+4.3%), benefiting from the quarter's risk-on

## Hedge Fund Style Group Returns



Sources: Callan, Credit Suisse, Federal Reserve

## Callan Peer Group Median and Index Returns\* for Periods Ended 6/30/21

Hedge Fund Universe	Quarter	Year-to-Date	1 Year	3 Years	5 Years	10 Years
Callan Institutional Hedge Fund Peer Group	2.1	5.9	17.4	6.3	7.0	6.0
Callan Fund-of-Funds Peer Group	2.7	4.6	18.1	6.0	6.5	5.1
Callan Absolute Return FOF Style	2.1	5.9	15.4	4.5	5.1	4.6
Callan Core Diversified FOF Style	2.6	4.3	15.8	5.7	6.4	4.9
Callan Long/Short Equity FOF Style	4.3	5.9	23.7	8.9	9.6	6.5
BB GS Cross Asset Risk Premia 6% Vol Idx	1.0	1.0	1.6	1.2	1.6	4.3
Credit Suisse Hedge Fund	3.0	6.0	16.6	5.9	5.6	4.2
CS Convertible Arbitrage	1.6	4.3	14.7	6.7	5.9	4.2
CS Distressed	4.0	10.4	21.6	4.3	5.5	4.3
CS Emerging Markets	5.1	7.9	19.5	8.4	8.4	5.3
CS Equity Market Neutral	2.1	3.0	6.9	0.3	1.6	1.4
CS Event-Driven Multi	3.6	10.6	30.0	7.1	6.8	3.5
CS Fixed Income Arb	1.7	3.8	11.1	4.4	5.1	4.6
CS Global Macro	3.3	6.2	17.7	7.0	6.0	4.6
CS Long/Short Equity	2.9	5.3	16.5	6.5	7.0	5.5
CS Managed Futures	3.9	6.3	11.4	4.6	0.8	1.5
CS Multi-Strategy	2.3	4.5	13.5	4.8	5.3	5.7
CS Risk Arbitrage	3.2	5.2	21.8	8.6	6.9	4.2
HFRI Asset Wtd Composite	3.2	6.0	16.2	4.5	5.2	4.1
90-Day T-Bill + 5%	1.2	2.5	5.1	6.3	6.2	5.6

\*Net of fees. Sources: Bloomberg Barclays GSAM, Callan, Credit Suisse, Hedge Fund Research

environment. As the weakest substyle performer, the average Hedged Rates fund edged ahead only 0.1% as it navigated twisting yield curves for sovereigns.

Within CS HFI, the best-performing strategy in 2Q was Emerging Markets (+5.1%), aided by its long-biased exposures to credit and equity. Ripe credit conditions, despite declining bankruptcy events, helped Distressed to advance 4.0%. Both Event-Driven Multi-Strategy (+3.6%) and Risk Arb (+3.2%) profited from the quarter's particularly strong corporate activity.

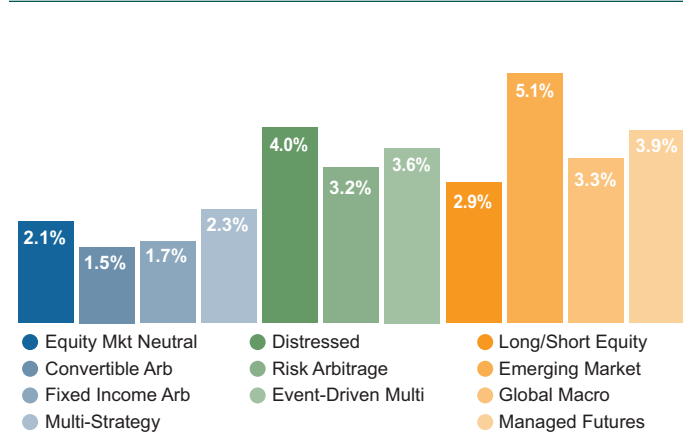
Across the Callan Hedge FOF Group, market exposures notably affected performance in 2Q. Supported by strong equity tailwinds, the median Callan Long/Short Equity FOF (+4.3%) handily beat the Callan Absolute Return FOF (+2.1%).

Measuring the quarter's performance of alternative risk premia, the Bloomberg GSAM Risk Premia Index increased 1.0% based upon a 6% volatility target. Within the underlying styles of the Index's derivative-based risk premia, Equity Trend

(+2.7%) and Commodity Trend (+1.9%) continued to profit from sustained market moves. The weakest risk premia were U.S. Equity Momentum Long/Short (-5.0%) and U.S. Equity Value Long/Short (-3.1%), reflecting the unusually challenging factor rotations within U.S. equity markets

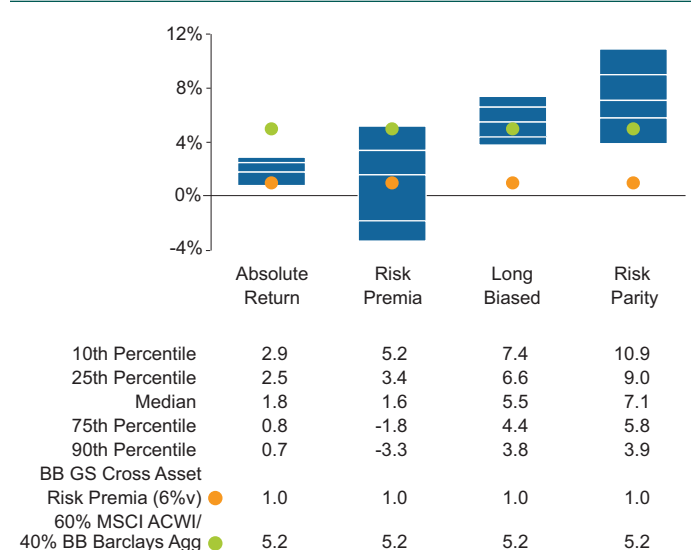
Within Callan's database of liquid alternative solutions, the median managers of the Callan Multi-Asset Class (MAC) Style Groups generated positive returns, gross of fees, consistent with their underlying risk exposures. For example, the Callan Risk Parity MAC, which typically targets an equal risk-weighted allocation to the major asset classes with leverage, jumped 7.1%. Supported by the quarter's tailwinds of positive equity, rates, and commodity markets, this MAC strategy handily beat its traditional unlevered, but equity-centric, benchmark of 60% MSCI ACWI and 40% Bloomberg Barclays US Aggregate Bond Index (+5.2%). The median Callan Risk Premia MAC rose 1.6% based on its exposures to uncorrelated style premia (such as those in the Bloomberg GSAM Index) targeting 5% to 15% portfolio volatility.

## Credit Suisse Hedge Fund Strategy Returns



Source: Credit Suisse

## MAC Style Group Returns



Sources: Bloomberg Barclays, Callan, Eurekahedge, S&P Dow Jones Indices

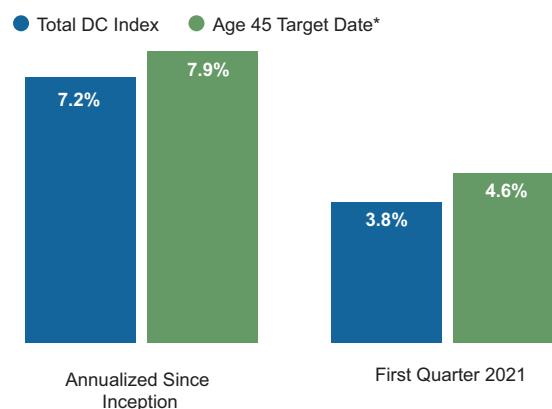
# Index Posts Fourth Straight Quarterly Gain

DEFINED CONTRIBUTION | Patrick Wisdom

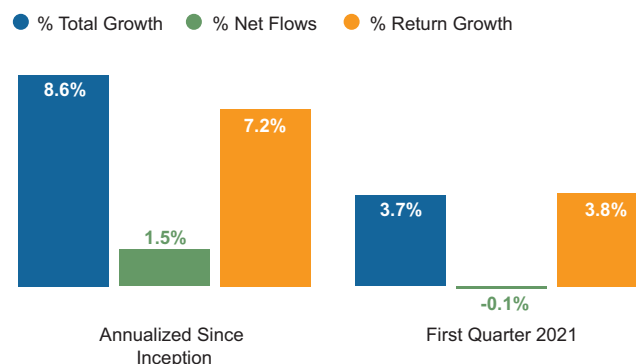
- The Callan DC Index™ rose 3.8% in 1Q21, a fourth straight quarter of gains after a 15.0% 1Q20 plunge. The increase propelled the Index's trailing one-year return to a staggering 40.7%. The Age 45 Target Date Fund (analogous to the 2040 vintage) posted a larger quarterly gain (4.6%), attributable to its higher allocation to equity.
- Balances within the DC Index rose by 3.7%, the fourth straight quarterly gain. Investment returns (3.8%) were the sole driver of the growth; quarterly net flows (-0.1%) had a small, negative effect.
- After two straight quarters in which target date funds were not the top destination for inflows, there was a return to normal in 1Q21 as the asset allocation funds received 83.0% of quarterly net inflows.
- In a reversal from 4Q20, investors transferred assets out of relatively safer asset classes. U.S. equity also saw net outflows. In contrast, global ex-U.S. equity had the second-largest net inflows.
- Turnover (i.e., net transfer activity levels within DC plans) in the DC Index increased in 1Q, rising to 0.42% from the previous quarter's 0.14%.
- The Index's allocation to equity increased to 71.1% from the previous quarter's 70.5%. The current allocation continues to sit well above the Index's historical average (68.0%).
- In a continuation from the previous quarter, U.S. large cap (26.8% total allocation) and U.S. small/mid cap (8.5%) experienced the largest percentage increases in allocation.
- Stable value (8.9% allocation) and U.S. fixed income (6.1%) saw the largest decreases in allocation.
- Despite recent headline attention about potential inflation, the prevalence of a real return/TIPS offering (35.0%) decreased by 2.1 percentage points. In contrast, the prevalence of a high yield fixed income offering (6.7%) increased by 1.5 percentage points, its highest mark since 1Q17.

*The Callan DC Index is an equally weighted index tracking the cash flows and performance of over 100 plans, representing nearly \$300 billion in assets. The Index is updated quarterly and is available on Callan's website.*

## Investment Performance



## Growth Sources



## Net Cash Flow Analysis (1Q21)

(Top Two and Bottom Two Asset Gatherers)

Asset Class	Flows as % of Total Net Flows
Target Date Funds	83.01%
Global ex-U.S. Equity	11.53%
Company Stock	-21.02%
U.S. Large Cap	-25.52%
<b>Total Turnover**</b>	<b>0.42%</b>

Data provided here is the most recent available at time of publication.

Source: Callan DC Index

Note: DC Index inception date is January 2006.

\* The Age 45 Fund transitioned from the average 2035 TDF to the 2040 TDF in June 2018.

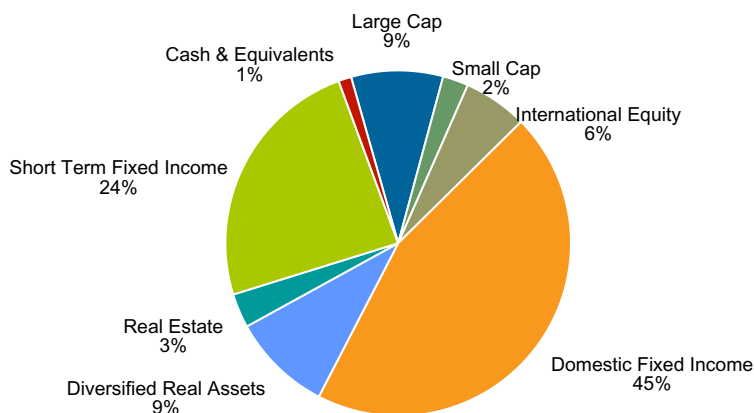
\*\* Total Index "turnover" measures the percentage of total invested assets (transfers only, excluding contributions and withdrawals) that moved between asset classes.



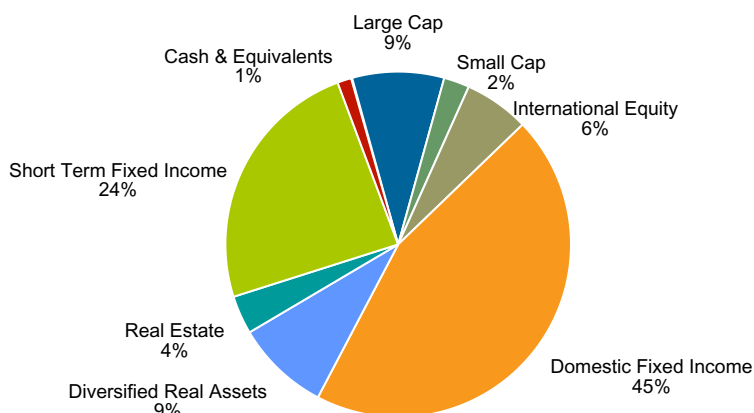
## Actual vs Target Asset Allocation As of June 30, 2021

The first chart below shows the Fund's asset allocation as of June 30, 2021. The second chart shows the Fund's target asset allocation as outlined in the investment policy statement.

**Actual Asset Allocation**



**Target Asset Allocation**



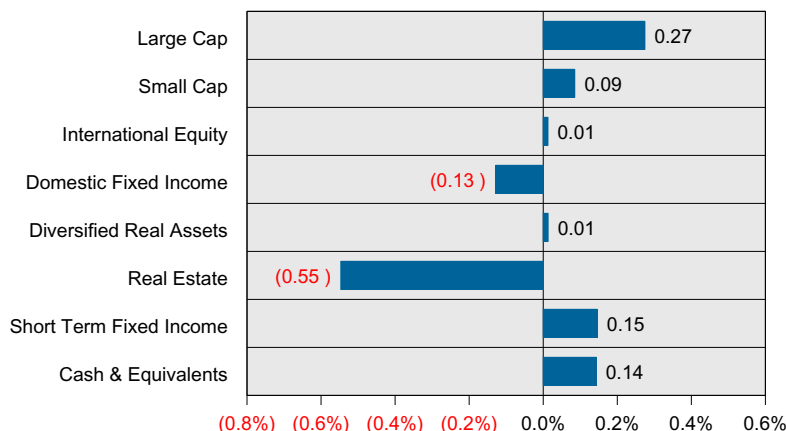
Asset Class	\$000s Actual	Weight Actual	Target	Percent Difference	\$000s Difference
Large Cap	277,494	8.6%	8.6%	0.1%	1,816
Small Cap	78,221	2.4%	2.4%	(0.0%)	(286)
International Equity	192,628	6.0%	6.1%	(0.1%)	(4,158)
Domestic Fixed Income	1,442,139	45.0%	44.9%	0.1%	2,043
Diversified Real Assets	301,325	9.4%	8.8%	0.6%	18,953
Real Estate	101,127	3.2%	3.6%	(0.5%)	(14,656)
Short Term Fixed Income	777,915	24.2%	24.2%	0.0%	0
Cash & Equivalents	37,400	1.2%	1.3%	(0.1%)	(3,713)
Total	3,208,249	100.0%	100.0%		

\* Current Quarter Target = 44.9% Blmbg Aggregate, 24.2% Blmbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.

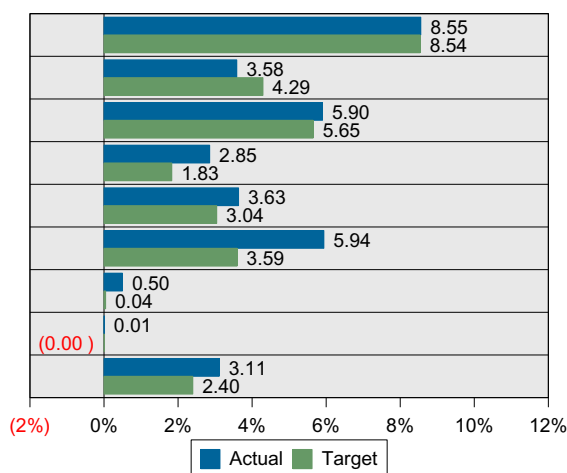
## Quarterly Total Fund Relative Attribution - June 30, 2021

The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.

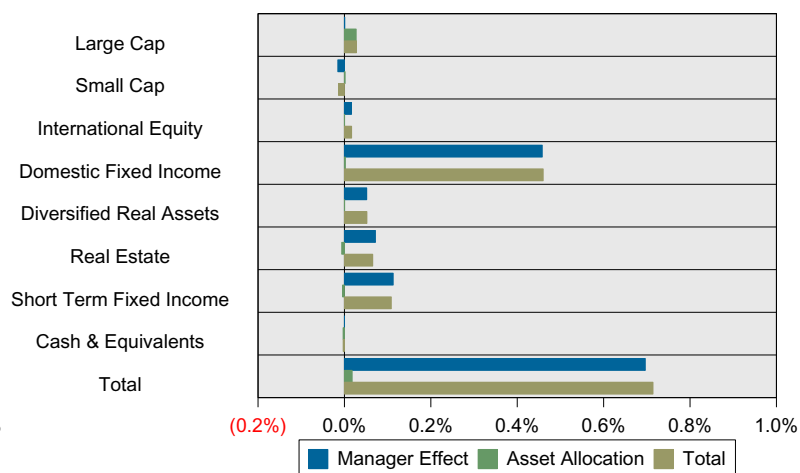
### Asset Class Under or Overweighting



### Actual vs Target Returns



### Relative Attribution by Asset Class



### Relative Attribution Effects for Quarter ended June 30, 2021

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	9%	9%	8.55%	8.54%	0.00%	0.03%	0.03%
Small Cap	3%	2%	3.58%	4.29%	(0.02%)	0.00%	(0.01%)
International Equity	6%	6%	5.90%	5.65%	0.02%	0.00%	0.02%
Domestic Fixed Income	45%	45%	2.85%	1.83%	0.46%	0.00%	0.46%
Diversified Real Assets	9%	9%	3.63%	3.04%	0.05%	0.00%	0.05%
Real Estate	3%	4%	5.94%	3.59%	0.07%	(0.01%)	0.07%
Short Term Fixed Income	24%	24%	0.50%	0.04%	0.11%	(0.00%)	0.11%
Cash & Equivalents	2%	1%	0.01%	(0.00%)	0.00%	(0.00%)	(0.00%)
<b>Total</b>			<b>3.11%</b>	<b>2.40%</b>	<b>+ 0.70%</b>	<b>+ 0.02%</b>	<b>0.71%</b>

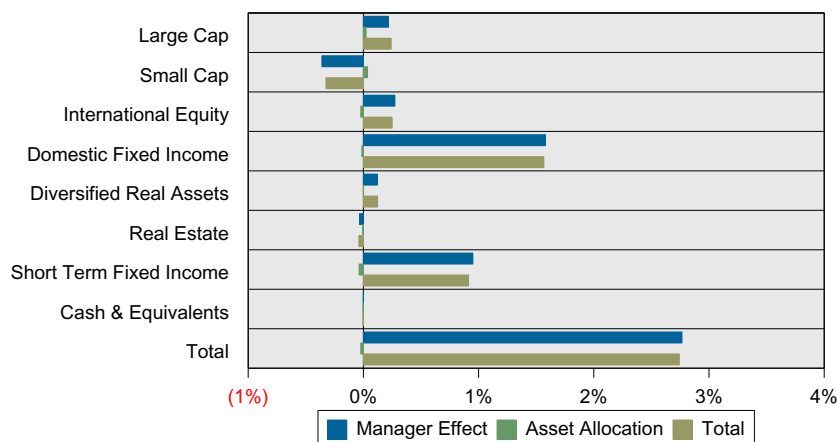
\* Current Quarter Target = 44.9% Blmbg Aggregate, 24.2% Blmbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.



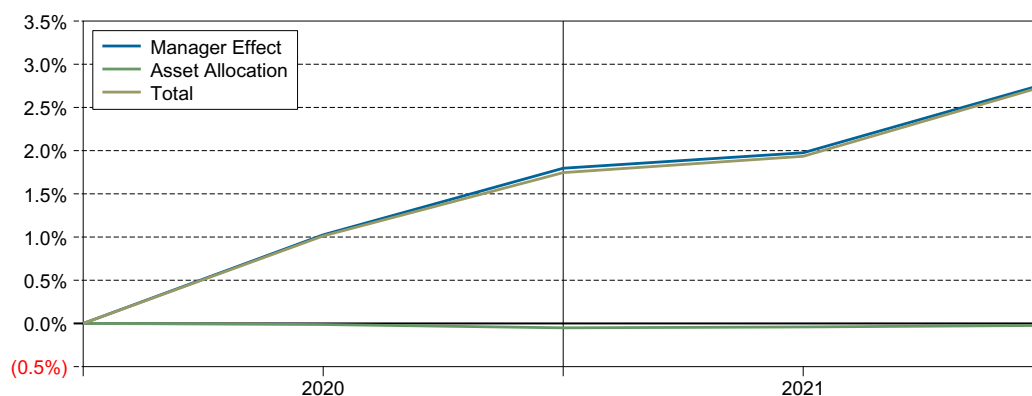
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### One Year Relative Attribution Effects



### Cumulative Relative Attribution Effects



### One Year Relative Attribution Effects

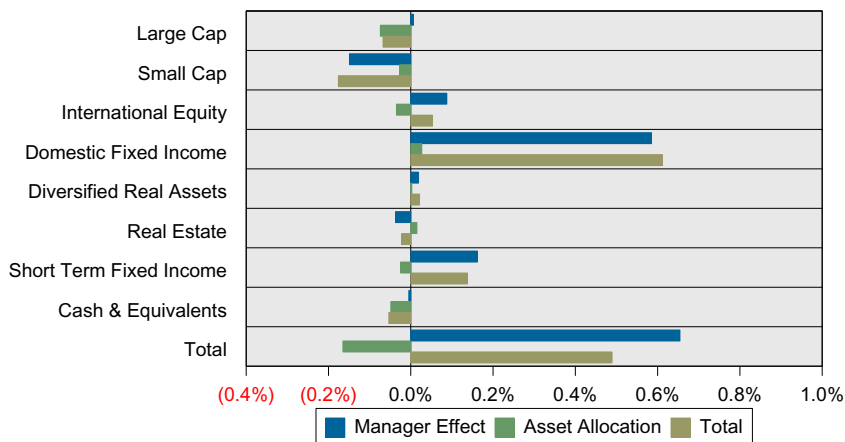
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	9%	9%	46.31%	43.07%	0.22%	0.02%	0.24%
Small Cap	2%	2%	42.90%	62.03%	(0.36%)	0.04%	(0.32%)
International Equity	6%	6%	39.33%	33.60%	0.27%	(0.02%)	0.25%
Domestic Fixed Income	45%	45%	3.01%	(0.33%)	1.58%	(0.01%)	1.57%
Diversified Real Assets	9%	9%	6.96%	5.58%	0.12%	0.00%	0.12%
Real Estate	3%	4%	6.31%	7.37%	(0.03%)	(0.01%)	(0.04%)
Short Term Fixed Income	25%	25%	4.09%	0.44%	0.95%	(0.04%)	0.91%
Cash & Equivalents	1%	1%	0.05%	0.09%	(0.00%)	(0.00%)	(0.00%)
<b>Total</b>			<b>9.92%</b>	<b>7.18%</b>	<b>+ 2.77%</b>	<b>+ (0.02%)</b>	<b>2.74%</b>

\* Current Quarter Target = 44.9% Blmbg Aggregate, 24.2% Blmbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.

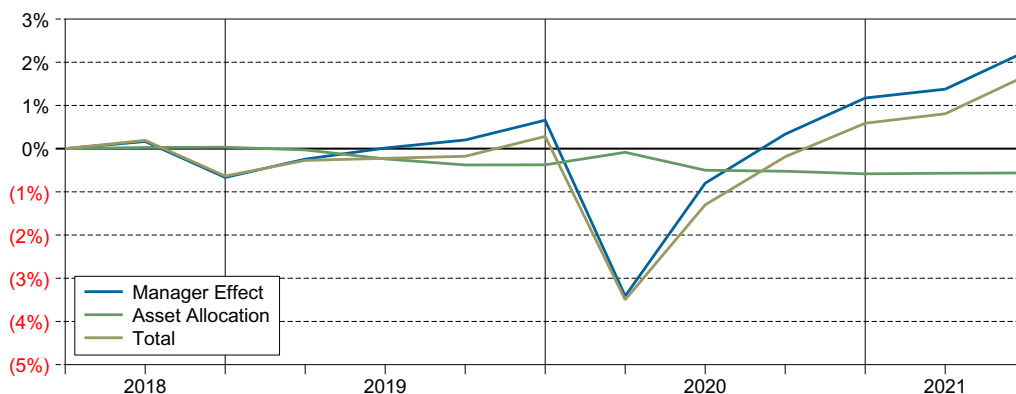
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Three Year Annualized Relative Attribution Effects



### Cumulative Relative Attribution Effects



### Three Year Annualized Relative Attribution Effects

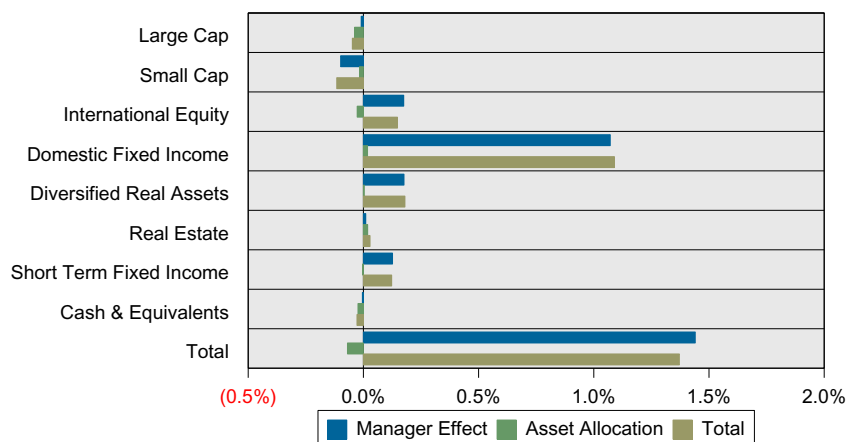
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	9%	9%	19.20%	19.16%	0.01%	(0.07%)	(0.07%)
Small Cap	3%	3%	7.68%	13.52%	(0.15%)	(0.03%)	(0.18%)
International Equity	6%	6%	10.06%	8.57%	0.09%	(0.03%)	0.05%
Domestic Fixed Income	48%	48%	6.62%	5.34%	0.59%	0.03%	0.61%
Diversified Real Assets	9%	10%	5.55%	5.22%	0.02%	0.00%	0.02%
Real Estate	4%	4%	4.46%	5.50%	(0.04%)	0.01%	(0.02%)
Short Term Fixed Income	18%	18%	3.73%	2.96%	0.16%	(0.02%)	0.14%
Cash & Equivalents	3%	2%	1.19%	1.34%	(0.00%)	(0.05%)	(0.05%)
<b>Total</b>			<b>7.19%</b>	<b>6.70%</b>	<b>+ 0.65%</b>	<b>+ (0.16%)</b>	<b>0.49%</b>

\* Current Quarter Target = 44.9% Blmbg Aggregate, 24.2% Blmbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.

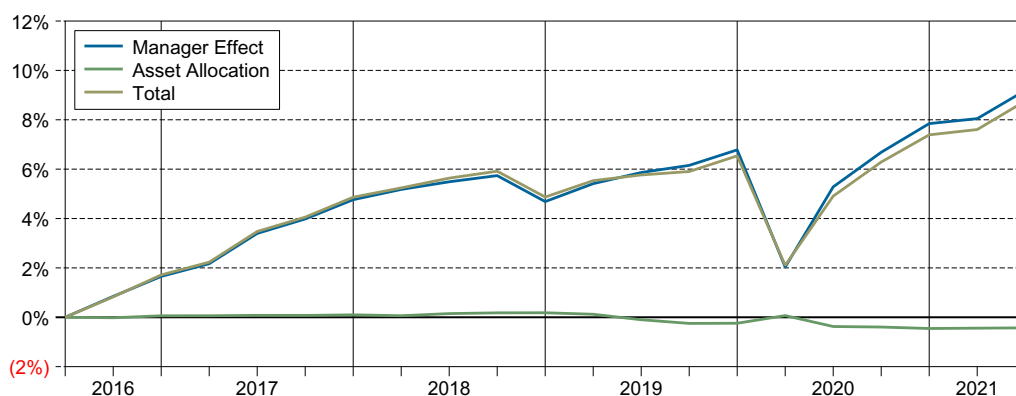
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Five Year Annualized Relative Attribution Effects



### Cumulative Relative Attribution Effects



### Five Year Annualized Relative Attribution Effects

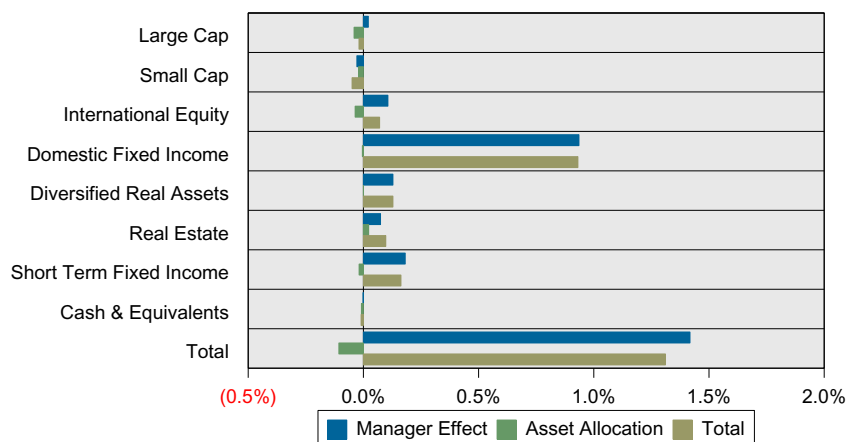
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	10%	10%	17.89%	17.99%	(0.01%)	(0.04%)	(0.05%)
Small Cap	3%	3%	12.56%	16.47%	(0.10%)	(0.02%)	(0.12%)
International Equity	7%	7%	12.87%	10.36%	0.17%	(0.03%)	0.15%
Domestic Fixed Income	49%	49%	5.23%	3.03%	1.07%	0.02%	1.09%
Diversified Real Assets	11%	11%	5.63%	4.11%	0.18%	0.00%	0.18%
Real Estate	5%	4%	5.98%	6.13%	0.01%	0.02%	0.03%
Short Term Fixed Income	13%	13%	2.50%	1.81%	0.13%	(0.00%)	0.12%
Cash & Equivalents	3%	3%	1.04%	1.17%	(0.00%)	(0.02%)	(0.03%)
<b>Total</b>			<b>6.99%</b>	<b>5.62%</b>	<b>+ 1.44%</b>	<b>+ (0.07%)</b>	<b>1.37%</b>

\* Current Quarter Target = 44.9% Blmbg Aggregate, 24.2% Blmbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.

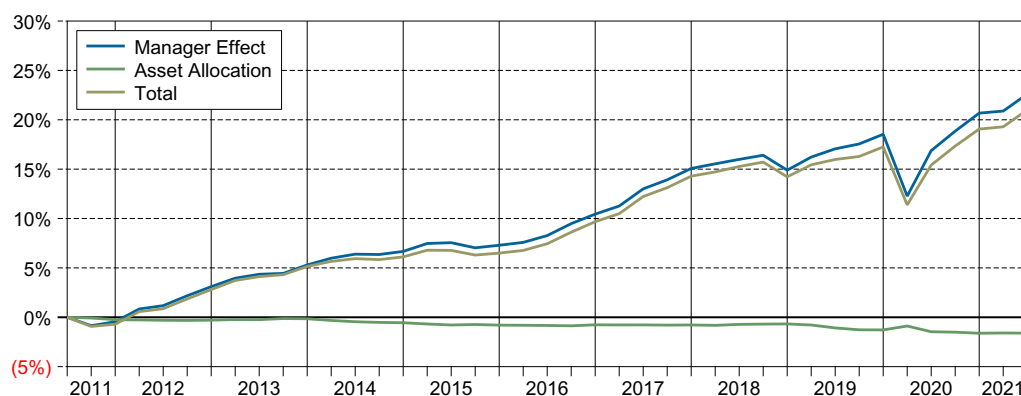
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Ten Year Annualized Relative Attribution Effects



### Cumulative Relative Attribution Effects



### Ten Year Annualized Relative Attribution Effects

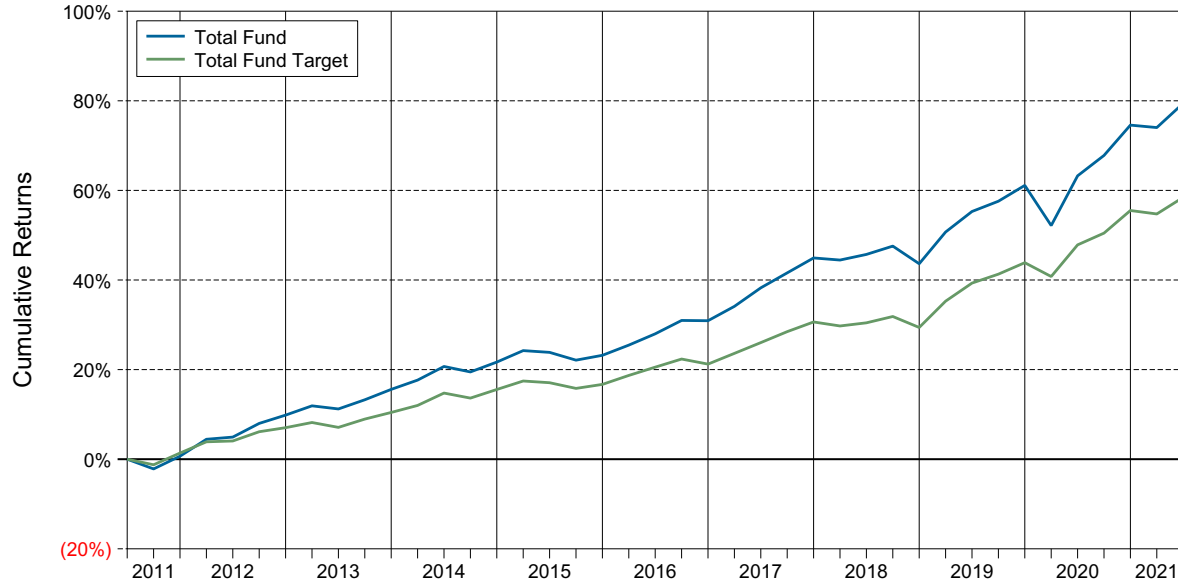
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	10%	10%	15.34%	15.00%	0.02%	(0.04%)	(0.02%)
Small Cap	3%	3%	11.20%	12.34%	(0.03%)	(0.02%)	(0.05%)
International Equity	7%	7%	7.69%	5.93%	0.11%	(0.04%)	0.07%
Domestic Fixed Income	42%	42%	5.73%	3.39%	0.94%	(0.00%)	0.93%
Diversified Real Assets	11%	11%	4.62%	3.44%	0.13%	(0.00%)	0.13%
Real Estate	5%	4%	10.36%	8.79%	0.07%	0.02%	0.10%
Short Term Fixed Income	20%	20%	1.97%	1.28%	0.18%	(0.02%)	0.16%
Cash & Equivalents	3%	3%	0.58%	0.63%	(0.00%)	(0.01%)	(0.01%)
<b>Total</b>			<b>6.02%</b>	<b>4.71%</b>	<b>1.42%</b>	<b>(0.11%)</b>	<b>1.31%</b>

\* Current Quarter Target = 44.9% Blmbg Aggregate, 24.2% Blmbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.

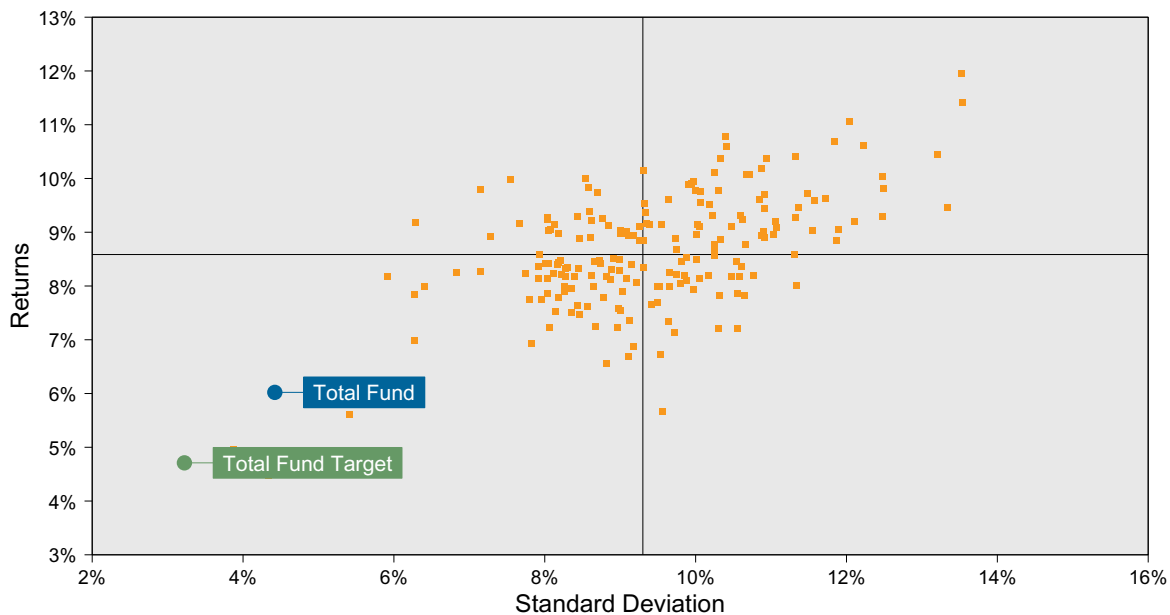
## Cumulative Performance Relative to Target

The first chart below illustrates the cumulative performance of the Total Fund relative to the cumulative performance of the Fund's Target Asset Mix. The Target Mix is assumed to be rebalanced each quarter with no transaction costs. The second chart below shows the return and the risk of the Total Fund and the Target Mix, contrasted with the returns and risks of the funds in the Callan Public Fund Sponsor Database.

### Cumulative Returns Actual vs Target



### Ten Year Annualized Risk vs Return



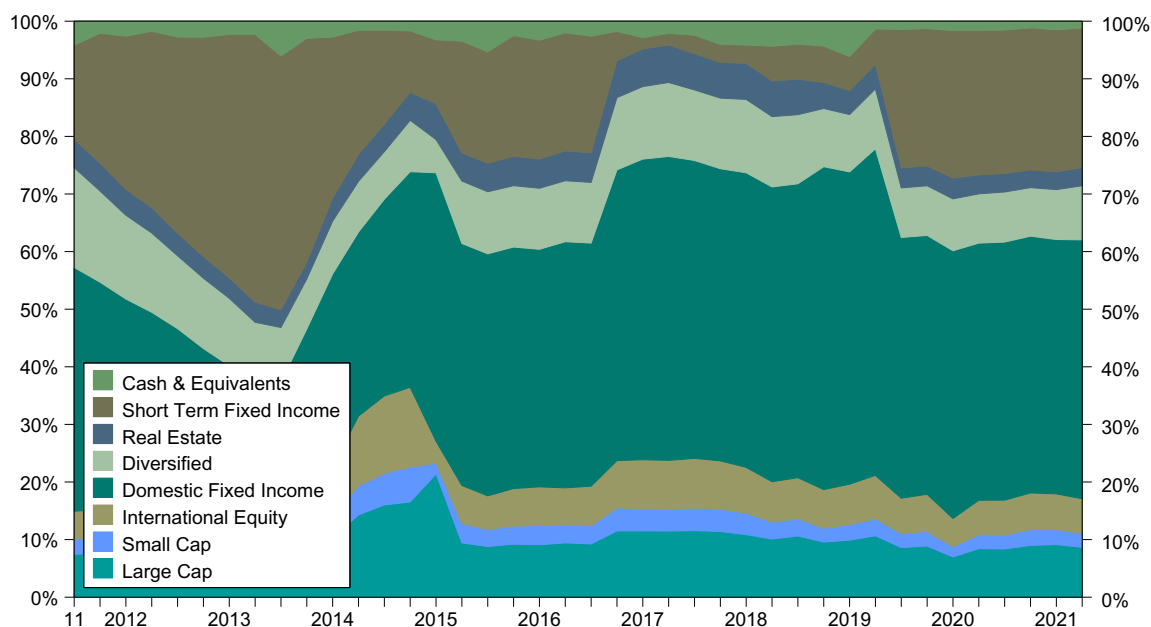
Squares represent membership of the Callan Public Fund Sponsor Database

\* Current Quarter Target = 44.9% Blmbg Aggregate, 24.2% Blmbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.

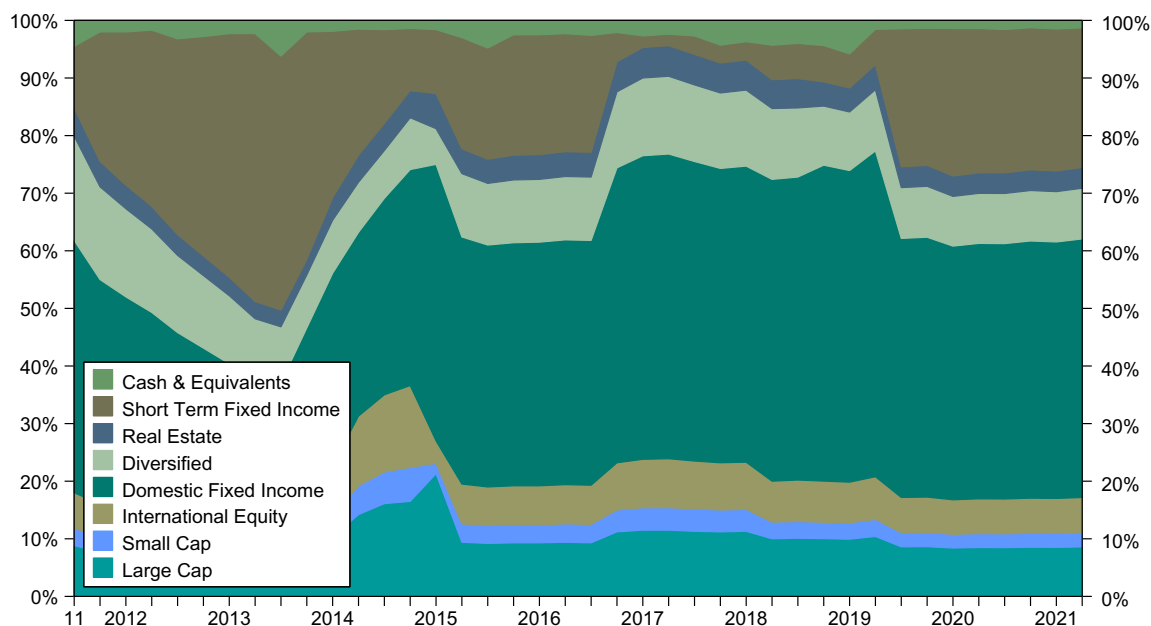
## Actual vs Target Historical Asset Allocation

The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, and the fund's historical target asset allocation.

### Actual Historical Asset Allocation



### Target Historical Asset Allocation

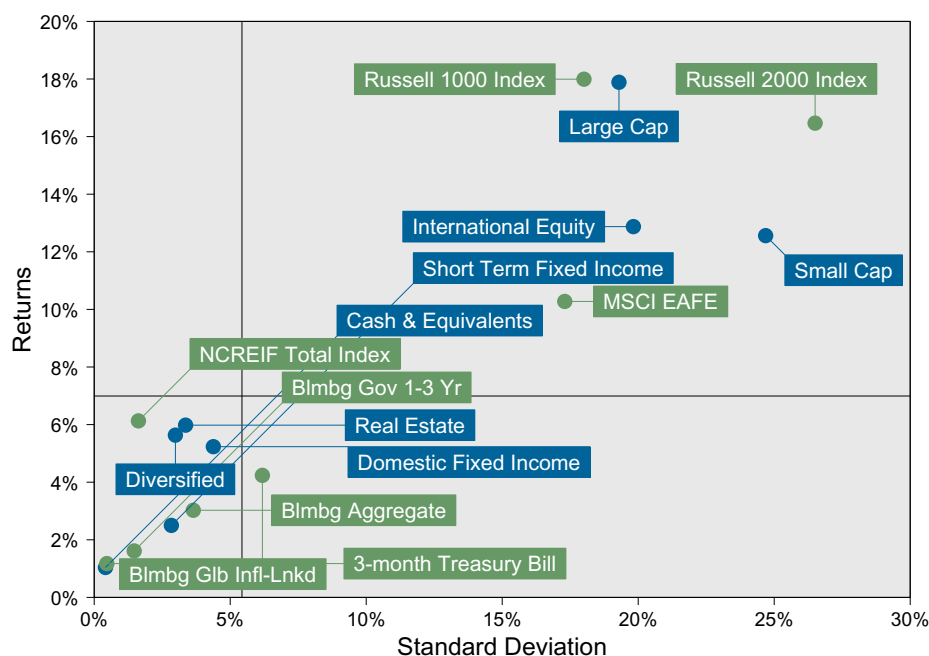


\* Current Quarter Target = 44.9% Blmgb Aggregate, 24.2% Blmgb Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.

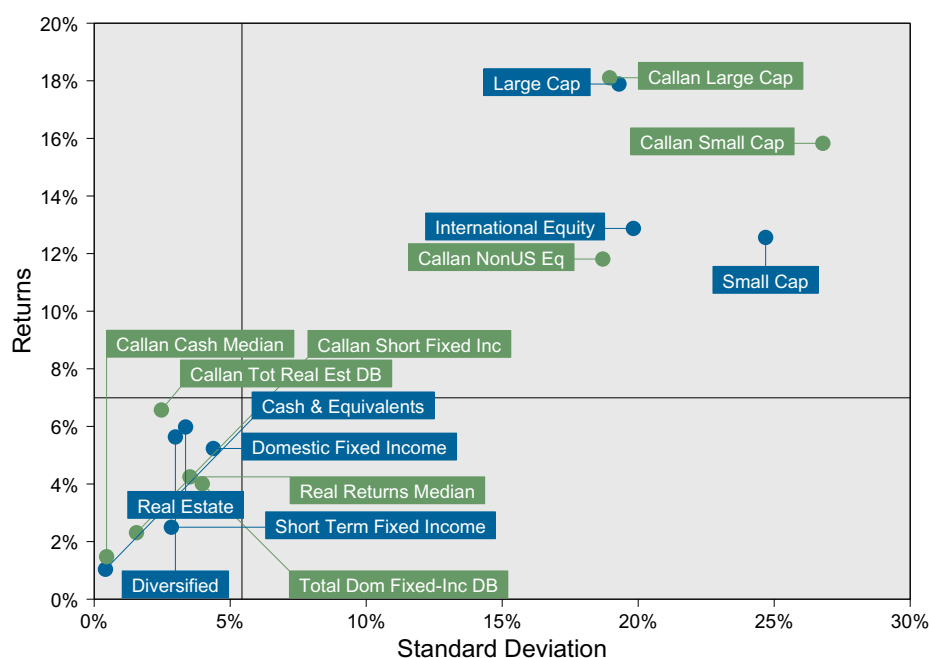
## Asset Class Risk and Return

The charts below show the five year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.

**Five Year Annualized Risk vs Return  
Asset Classes vs Benchmark Indices**



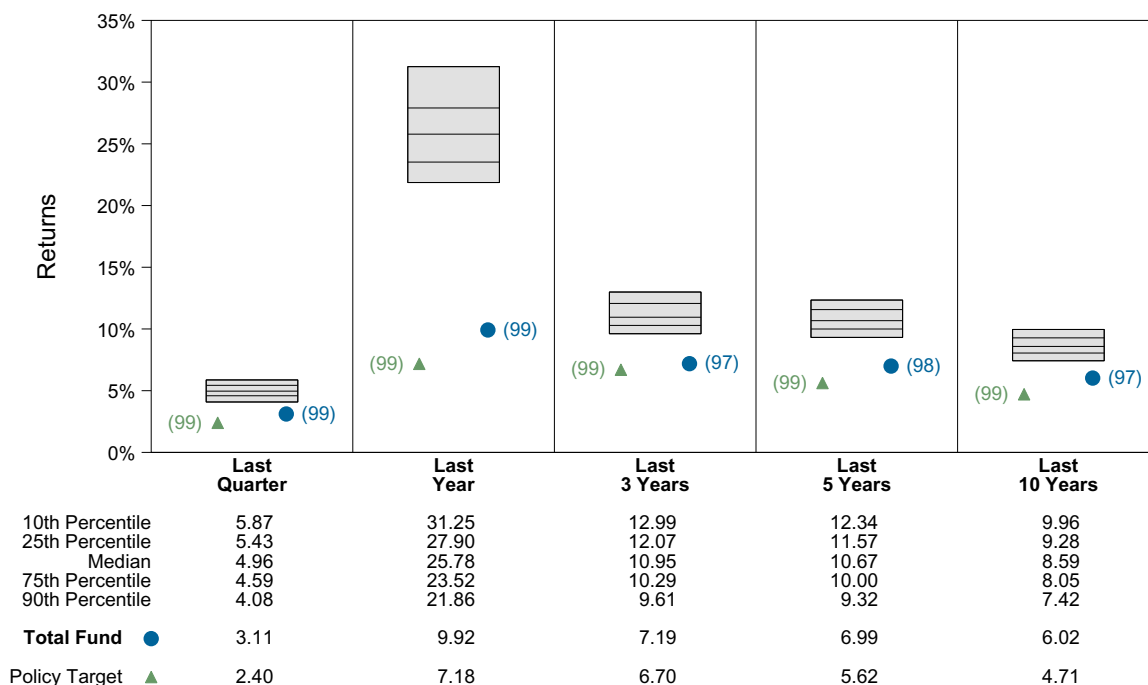
**Five Year Annualized Risk vs Return  
Asset Classes vs Asset Class Median**



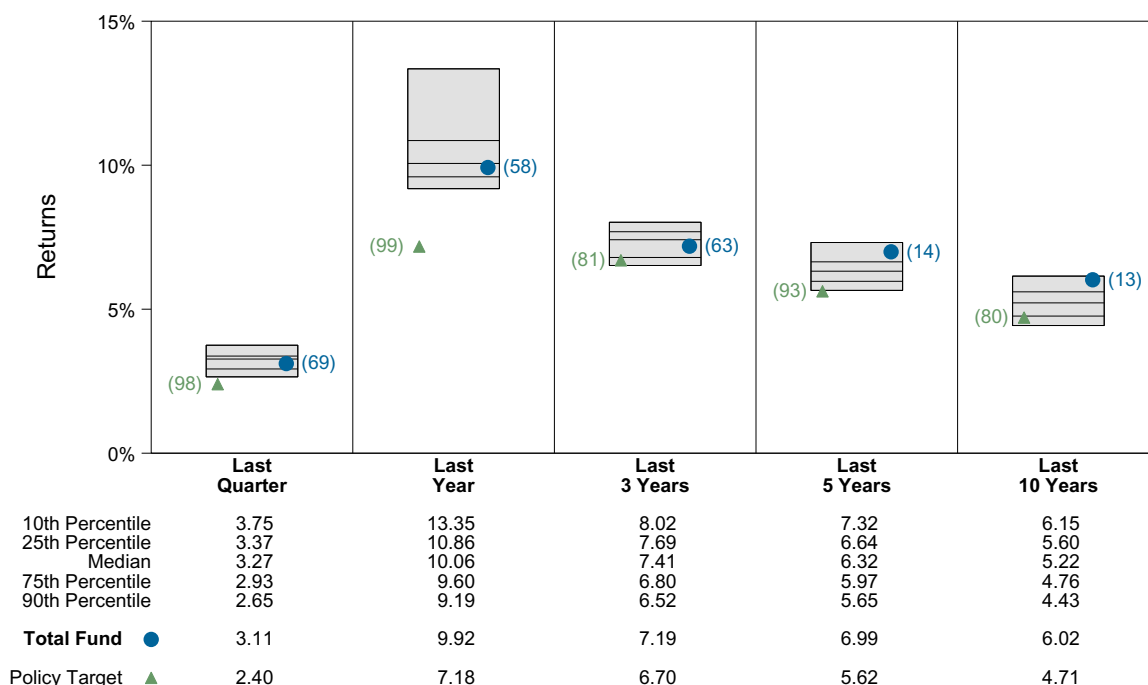
## Total Fund Ranking

The first two charts show the ranking of the Total Fund's performance relative to that of the Callan Public Fund Sponsor Database for periods ended June 30, 2021. The first chart is a standard unadjusted ranking. In the second chart each fund in the database is adjusted to have the same historical asset allocation as that of the Total Fund.

### Callan Public Fund Sponsor Database



### Asset Allocation Adjusted Ranking



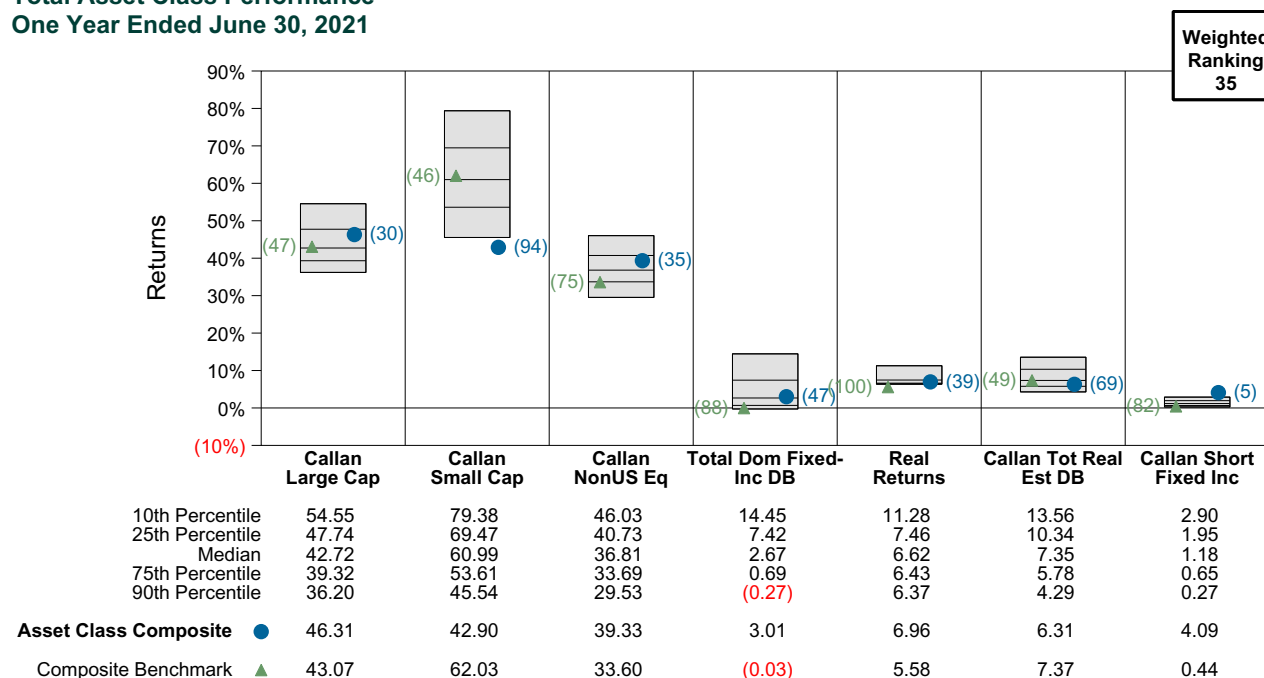
\* Current Quarter Target = 44.9% Bimbg Aggregate, 24.2% Bimbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.



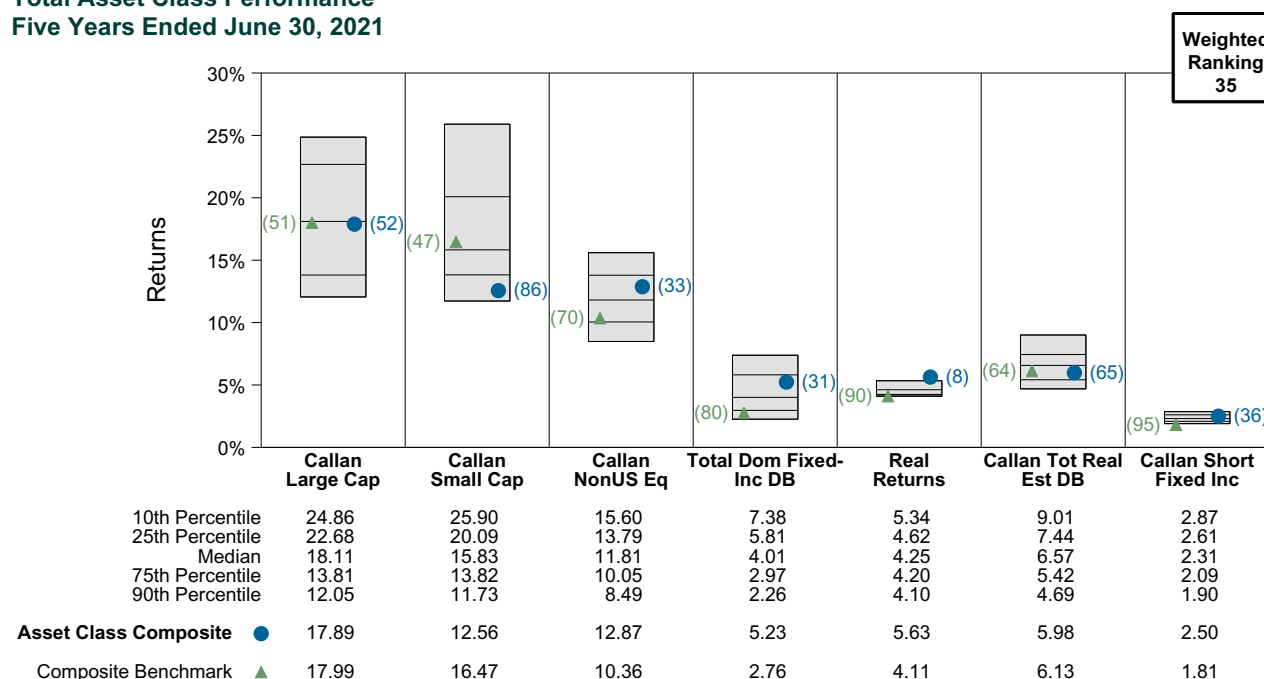
## Asset Class Rankings

The charts below show the rankings of each asset class component of the Total Fund relative to appropriate comparative databases. In the upper right corner of each graph is the weighted average of the rankings across the different asset classes. The weights of the fund's actual asset allocation are used to make this calculation. The weighted average ranking can be viewed as a measure of the fund's overall success in picking managers and structuring asset classes.

### Total Asset Class Performance One Year Ended June 30, 2021



### Total Asset Class Performance Five Years Ended June 30, 2021



\* Current Quarter Target = 44.9% Blmbg Aggregate, 24.2% Blmbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.

## Investment Manager Asset Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of June 30, 2021, with the distribution as of March 31, 2021. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

### Asset Distribution Across Investment Managers

	June 30, 2021				March 31, 2021	
	Market Value	Weight	Net New Inv.	Inv. Return	Market Value	Weight
<b>Global Equity</b>	<b>\$548,343,104</b>	<b>17.09%</b>	<b>\$(50,681,088)</b>	<b>\$37,999,997</b>	<b>\$561,024,195</b>	<b>17.93%</b>
<b>Domestic Equity</b>	<b>\$355,714,949</b>	<b>11.09%</b>	<b>\$(37,645,685)</b>	<b>\$26,597,353</b>	<b>\$366,763,281</b>	<b>11.72%</b>
<b>Large Cap</b>	<b>\$277,493,976</b>	<b>8.65%</b>	<b>\$(32,019,125)</b>	<b>\$23,673,804</b>	<b>\$285,839,297</b>	<b>9.14%</b>
Parametric Large Cap	54,913,098	1.71%	0	4,423,365	50,489,733	1.61%
L.A. Capital Large Cap Growth	84,366,219	2.63%	(10,942,890)	9,819,267	85,489,842	2.73%
L.A. Capital Enhanced	57,535,730	1.79%	(11,016,783)	5,361,277	63,191,236	2.02%
LSV Large Cap Value	80,678,928	2.51%	(10,059,452)	4,069,895	86,668,485	2.77%
<b>Small Cap</b>	<b>\$78,220,973</b>	<b>2.44%</b>	<b>\$(5,626,560)</b>	<b>\$2,923,549</b>	<b>\$80,923,984</b>	<b>2.59%</b>
Atlanta Capital	25,461,008	0.79%	(1,539,164)	346,778	26,653,394	0.85%
Riverbridge Small Cap Growth	27,500,877	0.86%	(47,006)	1,757,512	25,790,371	0.82%
Sycamore Small Cap Value	25,259,088	0.79%	(4,040,390)	819,259	28,480,219	0.91%
<b>International Equity</b>	<b>\$192,628,156</b>	<b>6.00%</b>	<b>\$(13,035,403)</b>	<b>\$11,402,644</b>	<b>\$194,260,915</b>	<b>6.21%</b>
DFA Int'l Small Cap Value	19,498,486	0.61%	(6,000,000)	1,103,682	24,394,804	0.78%
LSV Intl Value	74,668,266	2.33%	(68,140)	2,890,841	71,845,565	2.30%
Vanguard Intl Explorer Fund	19,659,498	0.61%	(3,000,000)	1,407,989	21,251,510	0.68%
William Blair	78,801,905	2.46%	(3,967,263)	6,000,133	76,769,036	2.45%
<b>Domestic Fixed Income</b>	<b>\$1,442,138,872</b>	<b>44.95%</b>	<b>\$20,717,940</b>	<b>\$39,882,749</b>	<b>\$1,381,538,183</b>	<b>44.16%</b>
Declaration Total Return	116,085,273	3.62%	(71,011)	1,564,911	114,591,373	3.66%
PIMCO Core Plus Constrained	198,223,535	6.18%	(58,564)	4,441,348	193,840,751	6.20%
PIMCO DiSCO II	41,031,067	1.28%	(7,105,646)	765,738	47,370,975	1.51%
PIMCO Bravo II Fund	8,185,573	0.26%	0	1,099,886	7,085,687	0.23%
Prudential	382,202,355	11.91%	14,815,857	11,765,639	355,620,859	11.37%
SSgA US Govt Credit Bd Idx	200,897,972	6.26%	4,992,856	4,760,629	191,144,486	6.11%
Wells Capital	115,599,669	3.60%	(5,255,515)	5,023,734	115,831,450	3.70%
Western Asset Management	379,913,428	11.84%	13,399,963	10,460,863	356,052,603	11.38%
<b>Global Real Assets</b>	<b>\$402,451,634</b>	<b>12.54%</b>	<b>\$19,266,397</b>	<b>\$15,637,278</b>	<b>\$367,547,959</b>	<b>11.75%</b>
<b>Real Estate</b>	<b>\$101,126,669</b>	<b>3.15%</b>	<b>\$(1,057,127)</b>	<b>\$5,684,172</b>	<b>\$96,499,624</b>	<b>3.08%</b>
Invesco Core Real Estate	53,679,736	1.67%	(455,871)	3,222,649	50,912,959	1.63%
JP Morgan RE Inc & Growth	47,446,933	1.48%	(601,255)	2,461,523	45,586,665	1.46%
<b>Diversified</b>	<b>\$301,325,112</b>	<b>9.39%</b>	<b>\$20,324,613</b>	<b>\$9,952,164</b>	<b>\$271,048,335</b>	<b>8.66%</b>
Western Asset TIPS	203,330,670	6.34%	25,452,904	7,007,200	170,870,565	5.46%
JP Morgan Infrastructure	41,466,220	1.29%	(1,294,418)	487,794	42,272,844	1.35%
Eastern Timber Opportunities	50,254,949	1.57%	(3,119,585)	2,155,551	51,218,983	1.64%
Grosvenor Cust. Infrastructure	6,273,273	0.20%	(714,288)	301,618	6,685,943	0.21%
<b>Short Term Fixed Income</b>	<b>\$777,915,381</b>	<b>24.25%</b>	<b>\$2,680,639</b>	<b>\$3,849,106</b>	<b>\$771,385,637</b>	<b>24.66%</b>
Barings Active Short Duration	390,480,923	12.17%	1,378,904	2,783,962	386,318,057	12.35%
JP Morgan Short Term Bonds	387,434,459	12.08%	1,301,734	1,065,144	385,067,580	12.31%
<b>Cash</b>	<b>\$37,399,629</b>	<b>1.17%</b>	<b>\$(9,332,482)</b>	<b>\$4,555</b>	<b>\$46,727,555</b>	<b>1.49%</b>
Northern Trust Cash Account	17,119,397	0.53%	(9,332,482)	(0)	26,451,879	0.85%
Bank of ND	20,280,231	0.63%	0	4,555	20,275,676	0.65%
<b>Total Fund</b>	<b>\$3,208,248,767</b>	<b>100.0%</b>	<b>\$(17,347,505)</b>	<b>\$97,372,742</b>	<b>\$3,128,223,530</b>	<b>100.0%</b>

## Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended June 30, 2021. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

### Returns for Periods Ended June 30, 2021

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Global Equity</b>					
Gross	6.90%	43.47%	14.31%	-	-
Net	6.83%	43.06%	14.04%	-	-
Weighted Benchmark	6.92%	42.30%	14.62%	-	-
<b>Domestic Equity</b>					
Gross	7.44%	45.72%	16.62%	16.80%	14.39%
Net	7.37%	45.40%	16.41%	16.57%	14.14%
Weighted Benchmark	7.59%	47.25%	17.99%	-	-
<b>Large Cap</b>					
Gross	8.55%	46.31%	19.20%	17.89%	15.34%
Net	8.51%	46.17%	19.03%	17.69%	15.13%
Benchmark(1)	8.54%	43.07%	19.16%	17.99%	15.00%
Parametric Clifton Large Cap - Gross	8.76%	41.68%	18.90%	17.65%	15.06%
Parametric Clifton Large Cap - Net	8.76%	42.02%	18.99%	17.66%	14.97%
S&P 500 Index	8.55%	40.79%	18.67%	17.65%	14.84%
L.A. Capital - Gross	11.94%	43.21%	25.41%	22.09%	17.87%
L.A. Capital - Net	11.88%	42.93%	25.16%	21.84%	17.63%
Russell 1000 Growth Index	11.93%	42.50%	25.14%	23.66%	17.87%
L.A. Capital Enhanced - Gross	8.86%	42.92%	19.83%	17.51%	15.26%
L.A. Capital Enhanced - Net	8.83%	42.78%	19.71%	17.37%	15.12%
Russell 1000 Index	8.54%	43.07%	19.16%	17.99%	14.90%
LSV Asset Management - Gross	4.85%	55.74%	11.20%	12.93%	12.42%
LSV Asset Management - Net	4.78%	55.31%	10.89%	12.60%	12.10%
Russell 1000 Value Index	5.21%	43.68%	12.42%	11.87%	11.61%
<b>Small Cap</b>					
Gross	3.58%	42.90%	7.68%	12.56%	11.20%
Net	3.43%	41.99%	7.37%	12.22%	10.81%
Russell 2000 Index	4.29%	62.03%	13.52%	16.47%	12.34%
Atlanta Capital - Gross	1.23%	37.25%	-	-	-
Atlanta Capital - Net	1.09%	36.38%	-	-	-
S&P 600 Small Cap Index	4.51%	67.40%	12.20%	15.82%	13.49%
Riverbridge Small Cap Growth - Gross	6.82%	-	-	-	-
Riverbridge Small Cap Growth - Net	6.63%	-	-	-	-
Russell 2000 Growth Index	3.92%	51.36%	15.94%	18.76%	13.52%
Sycamore Small Cap Value - Gross	2.73%	-	-	-	-
Sycamore Small Cap Value - Net	2.58%	-	-	-	-
Russell 2000 Value Index	4.56%	73.28%	10.27%	13.62%	10.85%
<b>International Equity</b>					
Gross	5.90%	39.33%	10.06%	12.87%	7.69%
Net	5.83%	38.94%	9.73%	12.54%	7.34%
Benchmark(2)	5.65%	33.60%	8.57%	10.36%	5.93%
DFA Intl Small Cap Value - Net	4.49%	43.90%	3.86%	8.75%	6.37%
World ex US SC Va	4.34%	44.91%	6.33%	9.93%	6.43%
LSV Asset Management - Gross	4.03%	36.25%	4.60%	9.00%	5.67%
LSV Asset Management - Net	3.93%	35.72%	4.19%	8.58%	5.24%
Benchmark(3)	5.17%	32.35%	8.27%	10.28%	5.89%
Vanguard Intl Explorer Fund - Net	6.64%	42.51%	6.51%	11.26%	7.47%
BMI, EPAC, <\$2 B	5.14%	44.71%	7.44%	10.61%	7.45%
William Blair - Gross	7.77%	38.39%	16.62%	17.11%	-
William Blair - Net	7.68%	37.92%	16.18%	16.68%	-
MSCI ACWI ex US IMI	5.60%	37.18%	9.43%	11.20%	5.65%

(1) S&P 500 Index through 12/31/2011 and Russell 1000 Index thereafter.

(2) MSCI EAFE through 9/30/2000; 50% Hedged EAFE through 3/31/2011; MSCI EAFE again through 6/30/2016; MSCI World ex-US thereafter.

(3) MSCI EAFE through 9/30/2000; 50% Hedged EAFE through 3/31/2011; MSCI EAFE again thereafter.

## Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended June 30, 2021. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

### Returns for Periods Ended June 30, 2021

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Domestic Fixed Income</b>					
Gross	2.85%	3.01%	6.62%	5.23%	5.73%
Net	2.82%	2.87%	6.50%	5.11%	5.59%
Blmbg Aggregate	1.83%	(0.33%)	5.34%	3.03%	3.39%
Declaration Total Return - Net	1.37%	6.87%	5.50%	4.96%	-
Labor-3 Month	0.04%	0.21%	1.46%	1.42%	0.89%
PIMCO Core Plus Cons. - Gross	2.29%	1.62%	-	-	-
PIMCO Core Plus Cons. - Net	2.26%	1.42%	-	-	-
Blmbg Aggregate	1.83%	(0.33%)	5.34%	3.03%	3.39%
PIMCO DiSCO II - Net	1.85%	8.63%	5.79%	8.81%	-
PIMCO Bravo II Fund - Net	15.52%	28.42%	2.78%	5.46%	-
Blmbg Aggregate	1.83%	(0.33%)	5.34%	3.03%	3.39%
Prudential - Gross	3.23%	2.97%	6.93%	4.84%	5.18%
Prudential - Net	3.18%	2.76%	6.71%	4.60%	4.95%
Blmbg Aggregate	1.83%	(0.33%)	5.34%	3.03%	3.39%
Wells Capital - Gross	4.34%	9.37%	10.00%	7.02%	6.62%
Wells Capital - Net	4.30%	9.16%	9.81%	6.84%	6.42%
Blmbg Credit Baa	3.72%	5.41%	8.30%	5.51%	5.57%
Western Asset - Gross	2.87%	1.40%	6.25%	4.39%	4.86%
Western Asset - Net	2.85%	1.29%	6.13%	4.27%	4.71%
Blmbg Aggregate	1.83%	(0.33%)	5.34%	3.03%	3.39%
SSgA US Govt Cr Bd Idx - Gross	2.43%	(0.34%)	6.05%	3.37%	-
SSgA US Govt Cr Bd Idx - Net	2.43%	(0.35%)	6.03%	3.35%	-
Blmbg Govt/Credit Bd	2.42%	(0.39%)	5.95%	3.31%	3.71%
<b>Global Real Assets</b>					
Gross	4.22%	6.74%	5.28%	-	-
Net	4.10%	6.47%	4.99%	-	-
Weighted Benchmark	3.20%	6.10%	5.30%	-	-
<b>Real Estate</b>					
Gross	5.94%	6.31%	4.46%	5.98%	10.36%
Net	5.71%	5.86%	3.96%	5.43%	9.60%
NCREIF Total Index	3.59%	7.37%	5.50%	6.13%	8.79%
Invesco Core Real Estate - Gross	6.37%	7.80%	5.37%	6.57%	-
Invesco Core Real Estate - Net	6.20%	7.45%	5.01%	6.21%	-
NCREIF Total Index	3.59%	7.37%	5.50%	6.13%	8.79%
JP Morgan - Gross	5.45%	4.67%	3.45%	5.32%	10.36%
JP Morgan - Net	5.16%	4.13%	2.80%	4.60%	9.36%
NCREIF Total Index	3.59%	7.37%	5.50%	6.13%	8.79%

## Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended June 30, 2021. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended June 30, 2021					
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Diversified</b>					
Gross	3.63%	6.96%	5.55%	5.63%	4.62%
Net	3.55%	6.75%	5.36%	5.40%	4.34%
Weighted Benchmark	3.04%	5.58%	5.22%	4.11%	3.44%
Western Asset TIPS - Gross	3.96%	7.04%	6.39%	4.52%	3.33%
Western Asset TIPS - Net	3.93%	6.93%	6.27%	4.39%	3.19%
Benchmark(1)	3.46%	6.51%	6.61%	4.78%	3.52%
JP Morgan Infrastructure - Gross	1.16%	11.25%	8.02%	8.33%	7.14%
JP Morgan Infrastructure - Net	0.73%	10.32%	7.26%	7.59%	6.19%
Benchmark(2)	2.93%	5.27%	3.59%	3.07%	2.09%
Eastern Timber Opportunities - Net	4.32%	2.70%	0.21%	3.65%	3.93%
NCREIF Timberland Index	1.70%	3.10%	2.12%	2.65%	4.66%
Grosvenor Cust. Infrastructure - Net	4.74%	15.73%	7.41%	7.61%	-
Benchmark(2)	2.93%	5.27%	3.59%	3.07%	2.09%
<b>Short Term Fixed Income</b>					
Gross	0.50%	4.09%	3.73%	2.50%	1.97%
Net	0.46%	3.96%	3.62%	2.34%	1.83%
Benchmark(3)	0.04%	0.44%	2.96%	1.81%	1.28%
Barings Active Short Duration - Gross	0.72%	6.88%	-	-	-
Barings Active Short Duration - Net	0.69%	6.74%	-	-	-
Blmbg Gov/Cred 1-3 Yr	0.04%	0.44%	2.96%	1.88%	1.49%
JP Morgan Short Term Bds - Gross	0.28%	1.43%	3.70%	2.36%	-
JP Morgan Short Term Bds - Net	0.23%	1.30%	3.59%	2.21%	-
Blmbg Gov/Credit 1-3 Yr	0.04%	0.44%	2.96%	1.88%	1.49%
<b>Cash &amp; Equivalents - Net</b>	<b>0.01%</b>	<b>0.05%</b>	<b>1.19%</b>	<b>1.04%</b>	<b>0.58%</b>
Cash Account- Net	0.00%	0.01%	1.11%	0.95%	0.54%
Bank of ND - Net	0.02%	0.10%	1.28%	-	-
90 Day Treasury Bills	(0.00%)	0.09%	1.34%	1.17%	0.63%
<b>Total Fund</b>					
Gross	3.11%	9.92%	7.19%	6.99%	6.02%
Net	3.06%	9.74%	7.03%	6.82%	5.82%
Target*	2.40%	7.18%	6.70%	5.62%	4.71%

\* Current Quarter Target = 44.9% Blmbg Aggregate, 24.2% Blmbg Gov/Cred 1-3 Yr, 8.8% NDSIB INS DRA Weighted Benchmark, 8.6% Russell 1000 Index, 6.1% MSCI World ex US, 3.6% NCREIF Total Index, 2.4% Russell 2000 Index and 1.3% 3-month Treasury Bill.

(1) Blmbg US TIPS through 12/31/2009; Blmbg Global Inflation-Linked through 10/31/18; Blmbg US Government Inflation Bond Index thereafter.

(2) CPI-W through June 30, 2018; 50% CPI-U lagged one quarter and 50% NFI-ODCE Equal Weight Net thereafter.

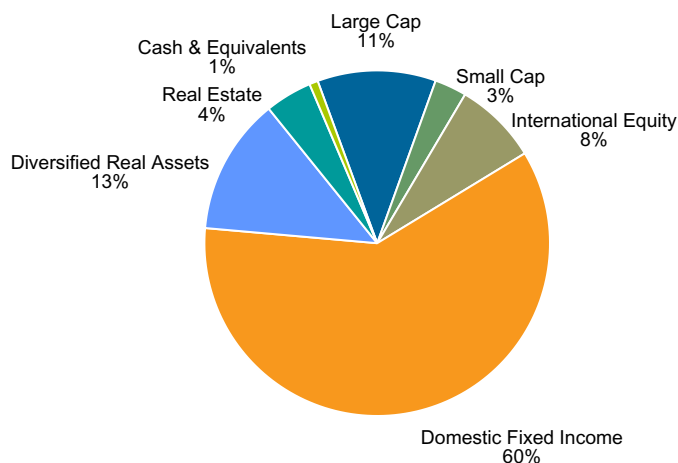
(3) Blmbg Gov 1-3 Yr through March 31, 2017 and Blmbg Gov/Credit 1-3 Yr thereafter.



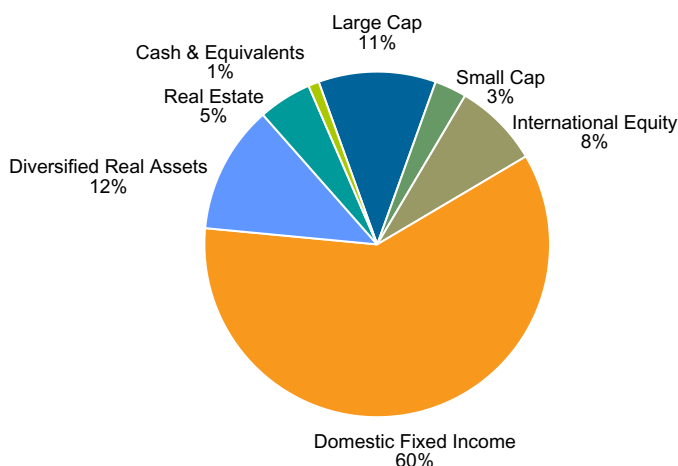
## Actual vs Target Asset Allocation As of June 30, 2021

The first chart below shows the Fund's asset allocation as of June 30, 2021. The second chart shows the Fund's target asset allocation as outlined in the investment policy statement.

**Actual Asset Allocation**



**Target Asset Allocation**



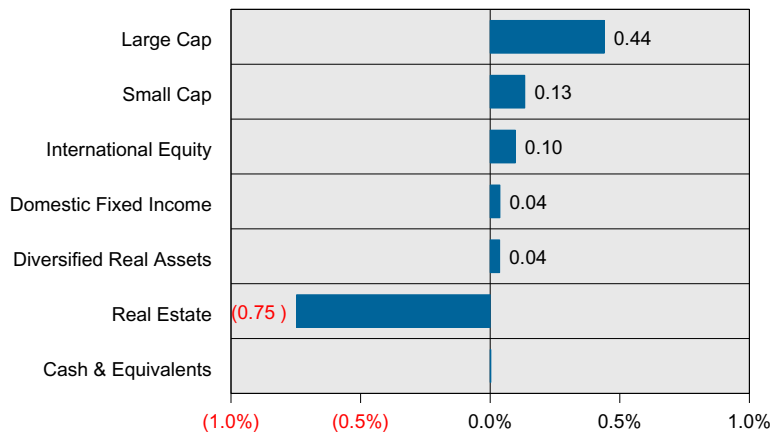
Asset Class	\$000s Actual	Weight Actual	Target	Percent Difference	\$000s Difference
Large Cap	256,178	11.1%	11.0%	0.1%	1,933
Small Cap	69,155	3.0%	3.0%	(0.0%)	(184)
International Equity	180,779	7.8%	8.0%	(0.2%)	(4,126)
Domestic Fixed Income	1,388,622	60.1%	60.0%	0.1%	1,831
Diversified Real Assets	296,277	12.8%	12.0%	0.8%	18,918
Real Estate	100,901	4.4%	5.0%	(0.6%)	(14,665)
Cash & Equivalents	19,405	0.8%	1.0%	(0.2%)	(3,708)
Total	2,311,318	100.0%	100.0%		

\* Current Quarter Target = 60.0% Blmbg Aggregate, 12.0% NDSIB WSI DRA Weighted Benchmark, 11.0% Russell 1000 Index, 8.0% MSCI World ex US, 5.0% NCREIF Total Index, 3.0% Russell 2000 Index and 1.0% 3-month Treasury Bill.

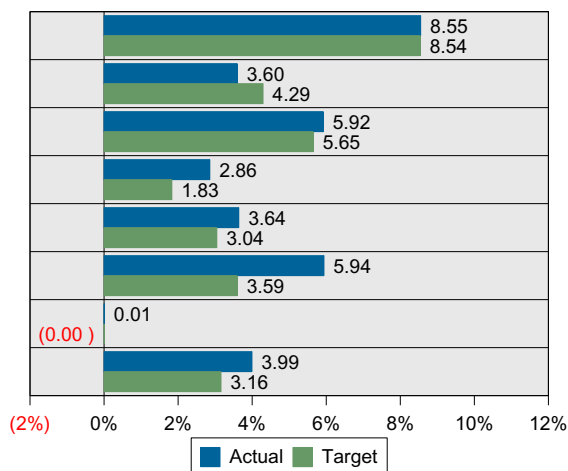
## Quarterly Total Fund Relative Attribution - June 30, 2021

The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.

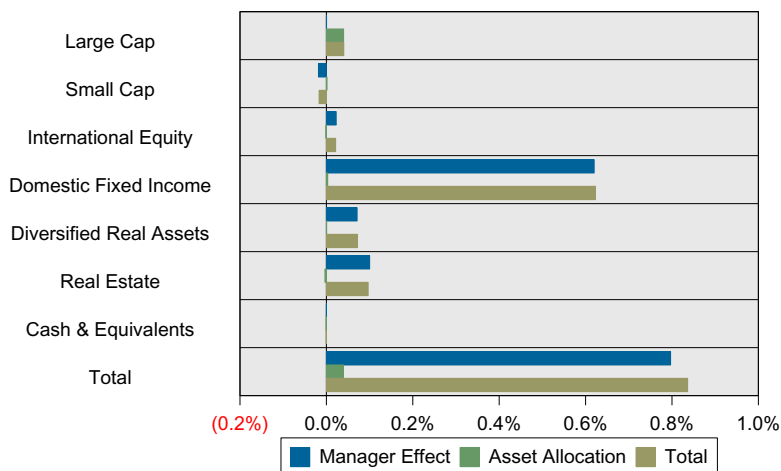
### Asset Class Under or Overweighting



### Actual vs Target Returns



### Relative Attribution by Asset Class



### Relative Attribution Effects for Quarter ended June 30, 2021

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	11%	11%	8.55%	8.54%	0.00%	0.04%	0.04%
Small Cap	3%	3%	3.60%	4.29%	(0.02%)	0.00%	(0.02%)
International Equity	8%	8%	5.92%	5.65%	0.02%	(0.00%)	0.02%
Domestic Fixed Income	60%	60%	2.86%	1.83%	0.62%	0.00%	0.62%
Diversified Real Assets	12%	12%	3.64%	3.04%	0.07%	0.00%	0.07%
Real Estate	4%	5%	5.94%	3.59%	0.10%	(0.00%)	0.10%
Cash & Equivalents	1%	1%	0.01%	(0.00%)	0.00%	(0.00%)	(0.00%)
<b>Total</b>			<b>3.99%</b>	<b>3.16%</b>	<b>+ 0.80%</b>	<b>+ 0.04%</b>	<b>0.84%</b>

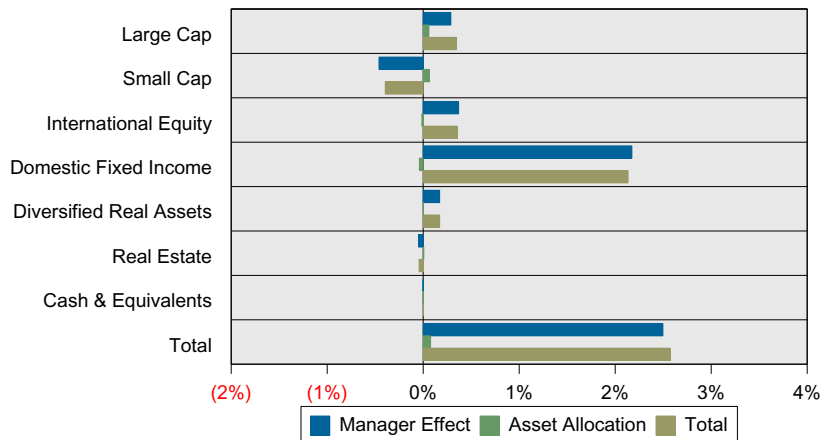
\* Current Quarter Target = 60.0% Blmgb Aggregate, 12.0% NDSIB WSI DRA Weighted Benchmark, 11.0% Russell 1000 Index, 8.0% MSCI World ex US, 5.0% NCREIF Total Index, 3.0% Russell 2000 Index and 1.0% 3-month Treasury Bill.



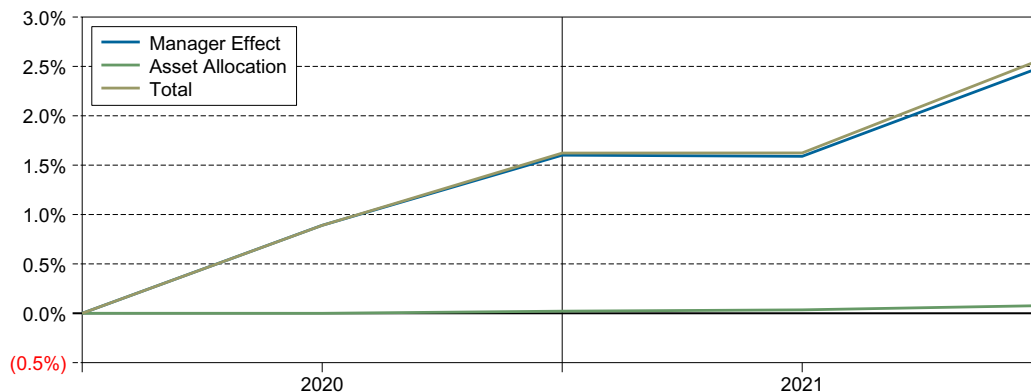
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### One Year Relative Attribution Effects



### Cumulative Relative Attribution Effects



### One Year Relative Attribution Effects

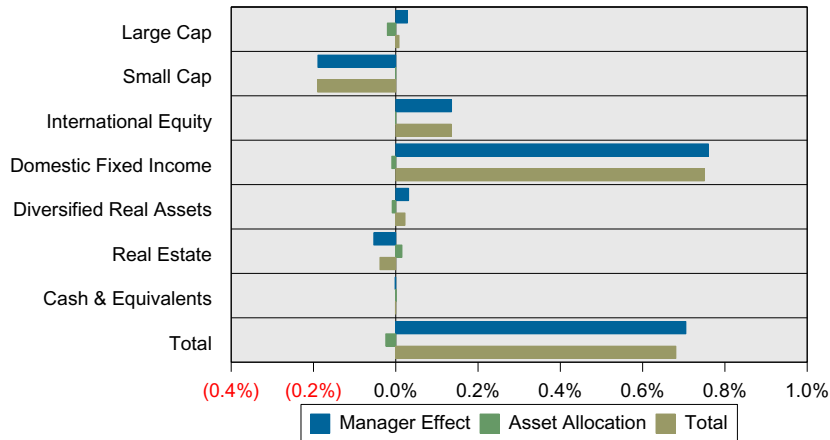
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	11%	11%	46.31%	43.07%	0.29%	0.06%	0.35%
Small Cap	3%	3%	42.92%	62.03%	(0.46%)	0.07%	(0.40%)
International Equity	8%	8%	39.35%	33.60%	0.37%	(0.01%)	0.35%
Domestic Fixed Income	60%	60%	3.01%	(0.33%)	2.17%	(0.04%)	2.13%
Diversified Real Assets	12%	12%	6.97%	5.58%	0.17%	(0.00%)	0.17%
Real Estate	4%	5%	6.31%	7.37%	(0.05%)	0.01%	(0.04%)
Cash & Equivalents	1%	1%	0.05%	0.09%	(0.00%)	0.00%	0.00%
<b>Total</b>			<b>11.77%</b>	<b>9.19%</b>	<b>+ 2.50%</b>	<b>+ 0.08%</b>	<b>2.57%</b>

\* Current Quarter Target = 60.0% Blmbg Aggregate, 12.0% NDSIB WSI DRA Weighted Benchmark, 11.0% Russell 1000 Index, 8.0% MSCI World ex US, 5.0% NCREIF Total Index, 3.0% Russell 2000 Index and 1.0% 3-month Treasury Bill.

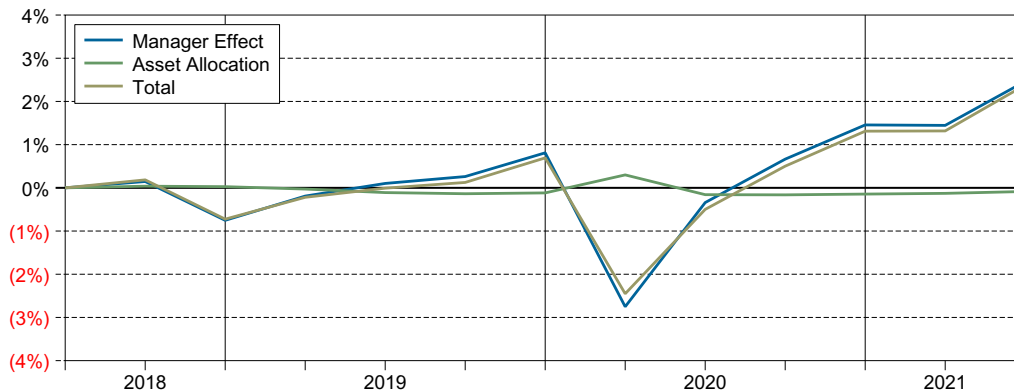
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Three Year Annualized Relative Attribution Effects



### Cumulative Relative Attribution Effects



### Three Year Annualized Relative Attribution Effects

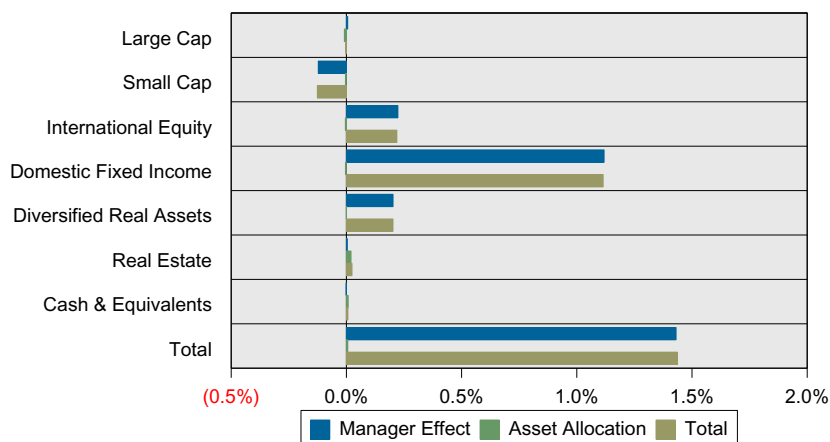
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	11%	11%	19.26%	19.16%	0.03%	(0.02)%	0.01%
Small Cap	3%	3%	7.55%	13.52%	(0.19)%	(0.00)%	(0.19)%
International Equity	8%	8%	10.11%	8.57%	0.14%	(0.00)%	0.14%
Domestic Fixed Income	60%	60%	6.69%	5.34%	0.76%	(0.01)%	0.75%
Diversified Real Assets	12%	12%	5.56%	5.22%	0.03%	(0.01)%	0.02%
Real Estate	5%	5%	4.46%	5.50%	(0.05)%	0.01%	(0.04)%
Cash & Equivalents	1%	1%	1.19%	1.34%	(0.00)%	0.00%	(0.00)%
<b>Total</b>			<b>8.30%</b>	<b>7.62%</b>	<b>+ 0.71%</b>	<b>+ (0.02)%</b>	<b>0.68%</b>

\* Current Quarter Target = 60.0% Blmgb Aggregate, 12.0% NDSIB WSI DRA Weighted Benchmark, 11.0% Russell 1000 Index, 8.0% MSCI World ex US, 5.0% NCREIF Total Index, 3.0% Russell 2000 Index and 1.0% 3-month Treasury Bill.

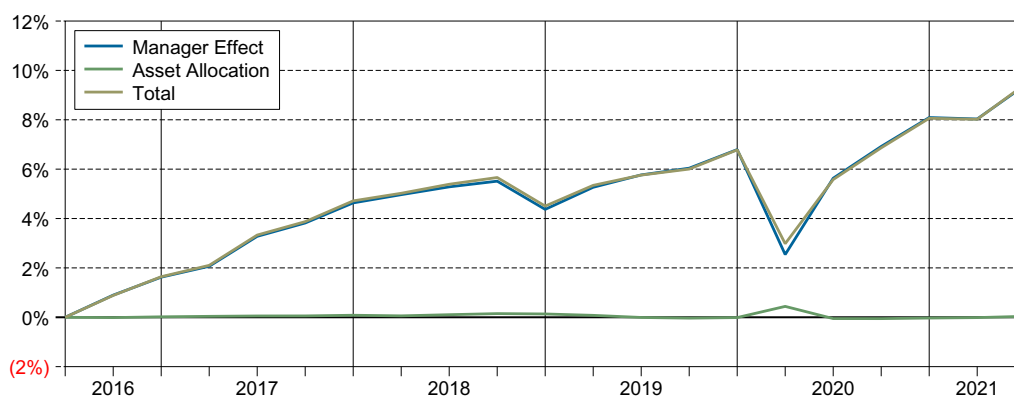
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Five Year Annualized Relative Attribution Effects



### Cumulative Relative Attribution Effects



### Five Year Annualized Relative Attribution Effects

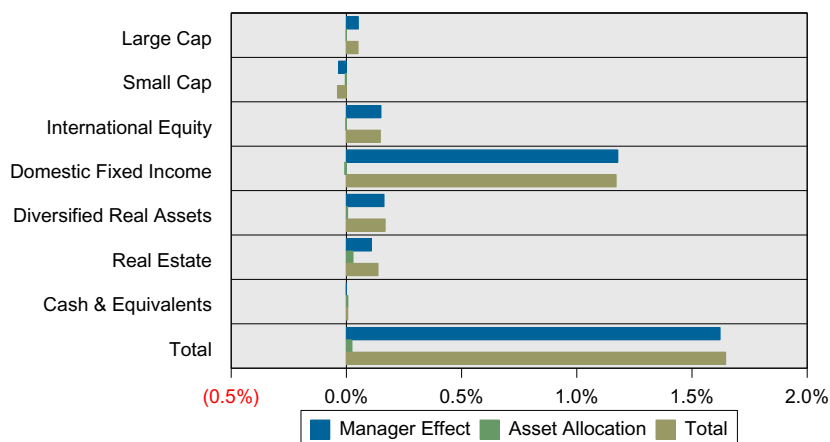
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	11%	11%	17.94%	17.99%	0.01%	(0.01%)	(0.00%)
Small Cap	3%	3%	12.48%	16.47%	(0.12%)	(0.00%)	(0.13%)
International Equity	8%	8%	12.91%	10.36%	0.22%	(0.00%)	0.22%
Domestic Fixed Income	57%	57%	5.05%	3.03%	1.12%	(0.00%)	1.11%
Diversified Real Assets	13%	13%	5.65%	4.16%	0.20%	(0.00%)	0.20%
Real Estate	6%	5%	5.98%	6.13%	0.00%	0.02%	0.02%
Cash & Equivalents	1%	1%	1.04%	1.17%	(0.00%)	0.01%	0.01%
<b>Total</b>			<b>7.79%</b>	<b>6.35%</b>	<b>+ 1.43%</b>	<b>+ 0.01%</b>	<b>1.44%</b>

\* Current Quarter Target = 60.0% Blmgb Aggregate, 12.0% NDSIB WSI DRA Weighted Benchmark, 11.0% Russell 1000 Index, 8.0% MSCI World ex US, 5.0% NCREIF Total Index, 3.0% Russell 2000 Index and 1.0% 3-month Treasury Bill.

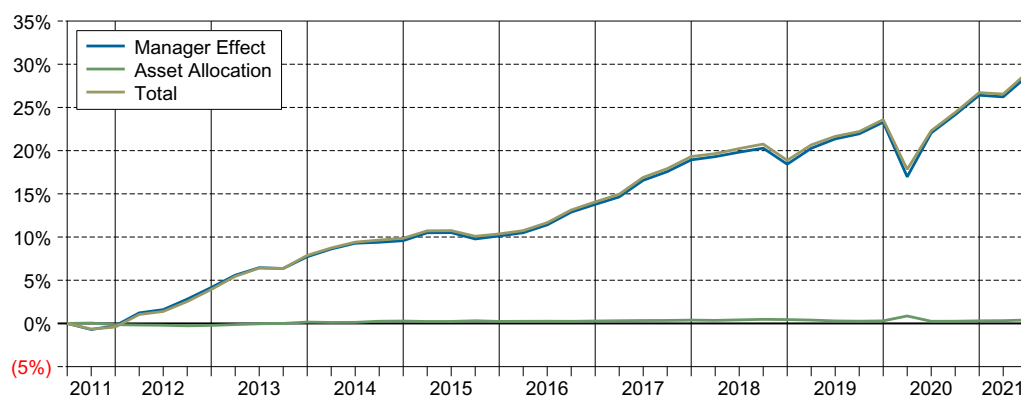
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Ten Year Annualized Relative Attribution Effects



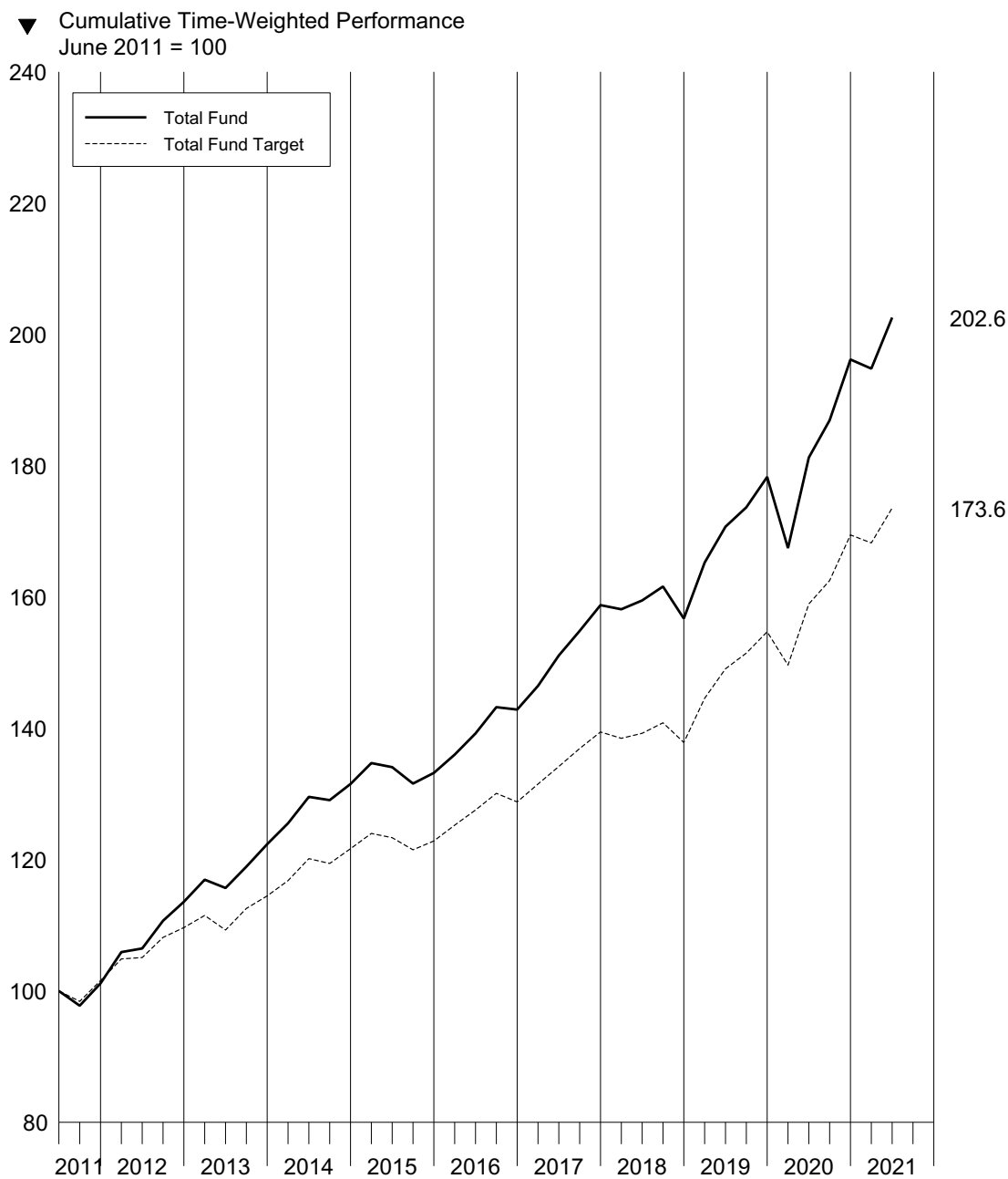
### Cumulative Relative Attribution Effects



### Ten Year Annualized Relative Attribution Effects

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Large Cap	11%	11%	15.36%	14.90%	0.05%	(0.00%)	0.05%
Small Cap	4%	3%	11.17%	12.34%	(0.03%)	(0.00%)	(0.04%)
International Equity	8%	8%	7.65%	5.93%	0.15%	(0.00%)	0.15%
Domestic Fixed Income	54%	54%	5.62%	3.39%	1.18%	(0.01%)	1.17%
Diversified Real Assets	16%	16%	4.72%	3.67%	0.16%	0.01%	0.17%
Real Estate	6%	6%	10.35%	8.79%	0.11%	0.03%	0.14%
Cash & Equivalents	1%	1%	0.59%	0.63%	(0.00%)	0.01%	0.01%
<b>Total</b>			<b>7.31%</b>	<b>5.67%</b>	<b>+ 1.62%</b>	<b>+ 0.02%</b>	<b>1.65%</b>

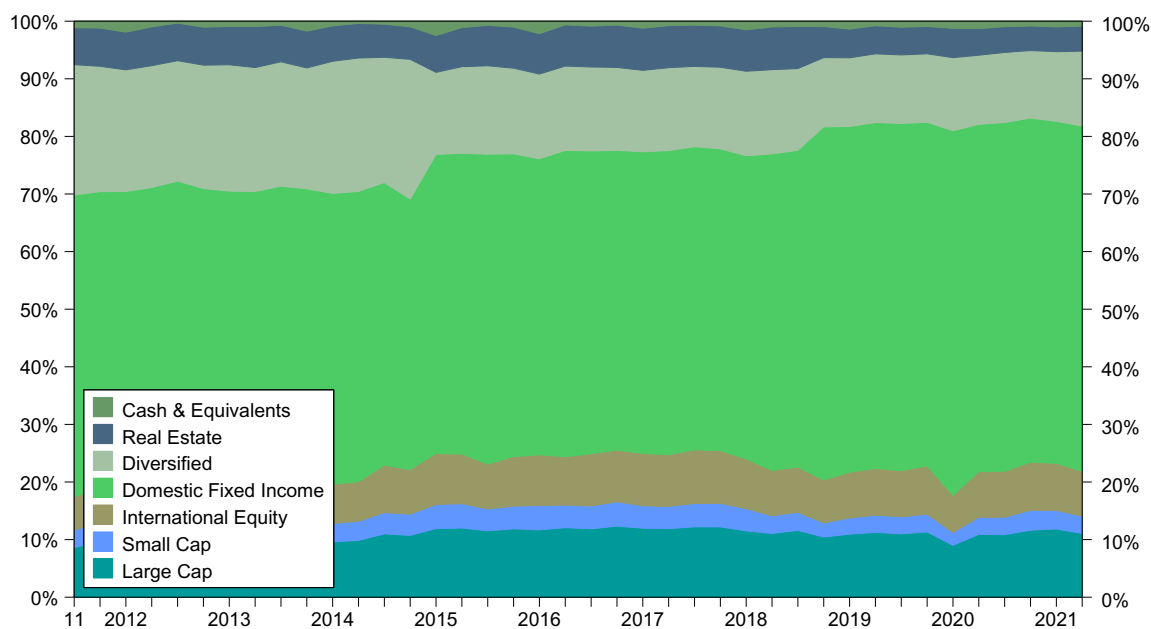
\* Current Quarter Target = 60.0% Blmgb Aggregate, 12.0% NDSIB WSI DRA Weighted Benchmark, 11.0% Russell 1000 Index, 8.0% MSCI World ex US, 5.0% NCREIF Total Index, 3.0% Russell 2000 Index and 1.0% 3-month Treasury Bill.



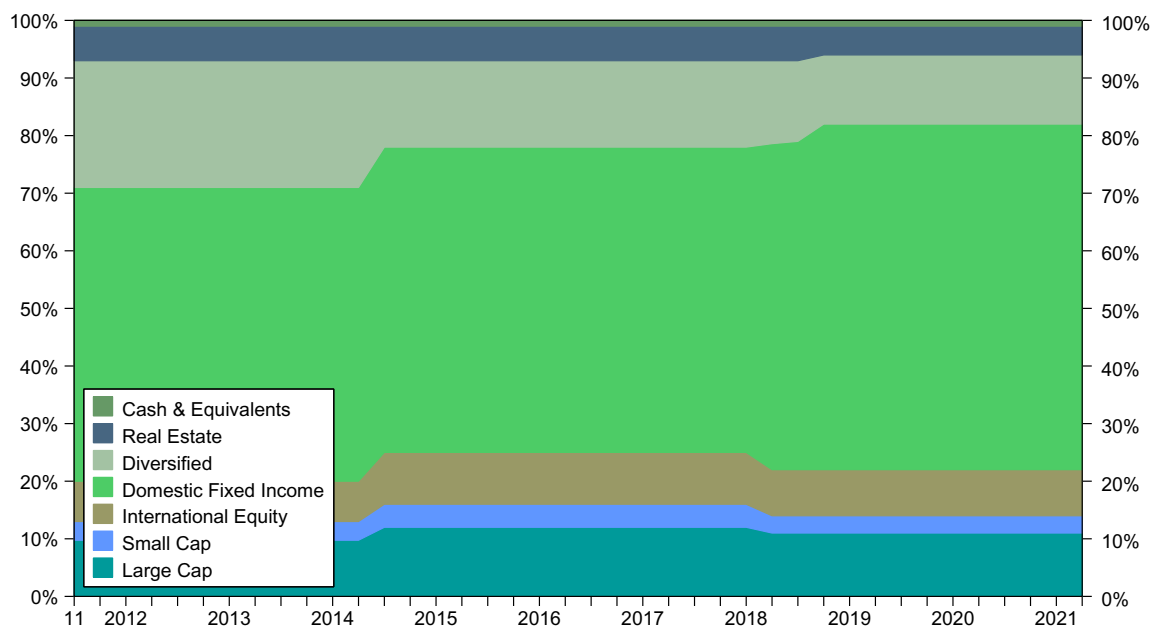
## Actual vs Target Historical Asset Allocation

The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, and the fund's historical target asset allocation.

### Actual Historical Asset Allocation



### Target Historical Asset Allocation

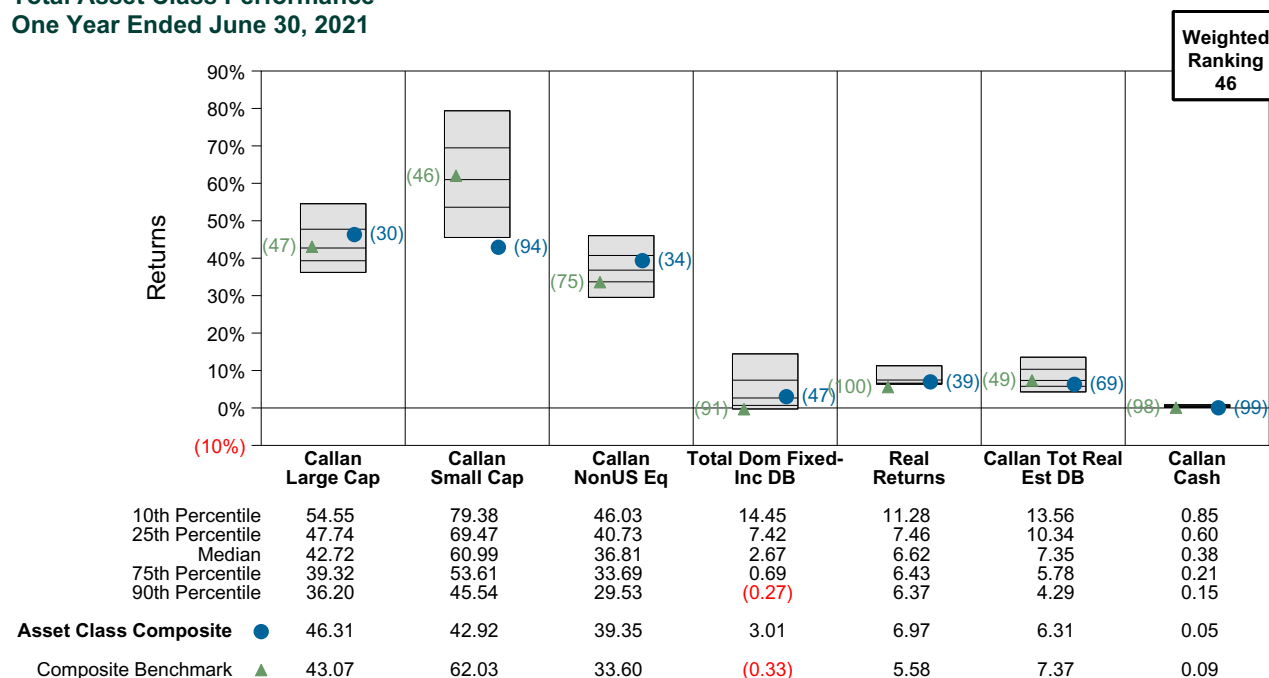


\* Current Quarter Target = 60.0% Blmgb Aggregate, 12.0% NDSIB WSI DRA Weighted Benchmark, 11.0% Russell 1000 Index, 8.0% MSCI World ex US, 5.0% NCREIF Total Index, 3.0% Russell 2000 Index and 1.0% 3-month Treasury Bill.

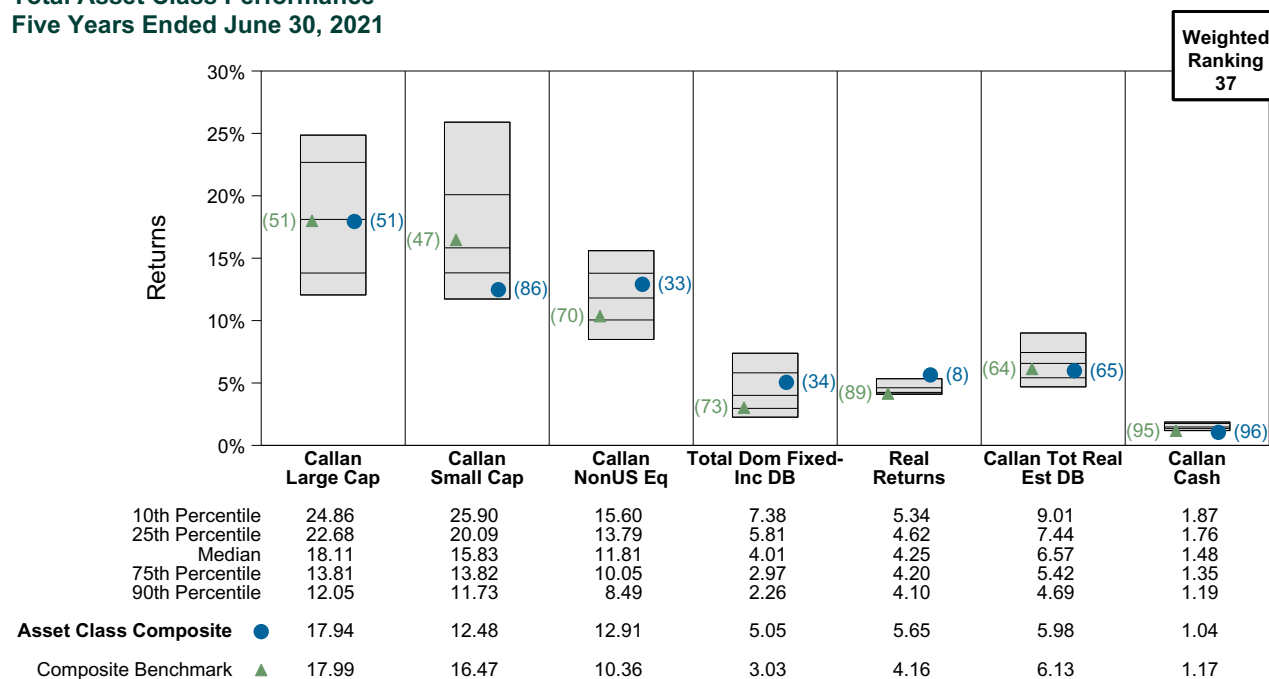
## Asset Class Rankings

The charts below show the rankings of each asset class component of the Total Fund relative to appropriate comparative databases. In the upper right corner of each graph is the weighted average of the rankings across the different asset classes. The weights of the fund's actual asset allocation are used to make this calculation. The weighted average ranking can be viewed as a measure of the fund's overall success in picking managers and structuring asset classes.

### Total Asset Class Performance One Year Ended June 30, 2021



### Total Asset Class Performance Five Years Ended June 30, 2021



\* Current Quarter Target = 60.0% Blmbg Aggregate, 12.0% NDSIB WSI DRA Weighted Benchmark, 11.0% Russell 1000 Index, 8.0% MSCI World ex US, 5.0% NCREIF Total Index, 3.0% Russell 2000 Index and 1.0% 3-month Treasury Bill.

## Asset Class Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of June 30, 2021, with the distribution as of March 31, 2021. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

### Asset Class Allocation

	June 30, 2021				March 31, 2021	
	Market Value	Weight	Net New Inv.	Inv. Return	Market Value	Weight
<b>Global Equity</b>	<b>\$506,112,915</b>	<b>21.90%</b>	<b>\$(50,430,756)</b>	<b>\$35,313,716</b>	<b>\$521,229,955</b>	<b>23.29%</b>
<b>Domestic Equity</b>	<b>\$325,333,646</b>	<b>14.08%</b>	<b>\$(37,166,408)</b>	<b>\$24,570,921</b>	<b>\$337,929,134</b>	<b>15.10%</b>
Large Cap	256,178,348	11.08%	(31,450,225)	21,960,094	265,668,479	11.87%
Small Cap	69,155,298	2.99%	(5,716,183)	2,610,827	72,260,655	3.23%
<b>International Equity</b>	<b>\$180,779,269</b>	<b>7.82%</b>	<b>\$(13,264,348)</b>	<b>\$10,742,795</b>	<b>\$183,300,822</b>	<b>8.19%</b>
<b>Domestic Fixed Income</b>	<b>\$1,388,622,113</b>	<b>60.08%</b>	<b>\$18,860,059</b>	<b>\$38,420,250</b>	<b>\$1,331,341,804</b>	<b>59.50%</b>
<b>Global Real Assets</b>	<b>\$397,177,652</b>	<b>17.18%</b>	<b>\$19,175,144</b>	<b>\$15,445,505</b>	<b>\$362,557,002</b>	<b>16.20%</b>
Real Estate	100,901,122	4.37%	(1,062,724)	5,671,666	96,292,180	4.30%
Diversified	296,276,531	12.82%	20,237,869	9,773,839	266,264,823	11.90%
<b>Cash</b>	<b>\$19,404,959</b>	<b>0.84%</b>	<b>\$(3,053,886)</b>	<b>\$1,957</b>	<b>\$22,456,889</b>	<b>1.00%</b>
<b>Total Fund</b>	<b>\$2,311,317,639</b>	<b>100.0%</b>	<b>\$(15,449,439)</b>	<b>\$89,181,428</b>	<b>\$2,237,585,651</b>	<b>100.0%</b>

PLEASE REFER TO PAGE 30 FOR INVESTMENT MANAGER LEVEL ASSET ALLOCATION.



## Asset Class Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended June 30, 2021. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

### Returns for Periods Ended June 30, 2021

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Global Equity</b>					
Gross	6.94%	43.45%	14.38%	-	-
Net	6.87%	43.10%	14.12%	-	-
Weighted Benchmark	6.93%	42.13%	14.58%	-	-
<b>Domestic Equity</b>					
Gross	7.47%	45.74%	16.75%	16.87%	14.44%
Net	7.40%	45.43%	16.54%	16.64%	14.19%
Weighted Benchmark	7.62%	47.12%	18.04%	-	-
<b>Large Cap</b>					
Gross	8.55%	46.31%	19.26%	17.94%	15.36%
Net	8.51%	46.17%	19.09%	17.75%	15.15%
Benchmark(1)	8.54%	43.07%	19.16%	17.99%	15.00%
<b>Small Cap</b>					
Gross	3.60%	42.92%	7.55%	12.48%	11.17%
Net	3.44%	42.01%	7.23%	12.13%	10.77%
Russell 2000	4.29%	62.03%	13.52%	16.47%	12.34%
<b>International Equity</b>					
Gross	5.92%	39.35%	10.11%	12.91%	7.65%
Net	5.85%	38.96%	9.78%	12.57%	7.29%
Benchmark(2)	5.65%	33.60%	8.57%	10.36%	5.93%
<b>Domestic Fixed Income</b>					
Gross	2.86%	3.01%	6.69%	5.05%	5.62%
Net	2.83%	2.88%	6.56%	4.92%	5.47%
Blmbg Aggregate	1.83%	(0.33%)	5.34%	3.03%	3.39%
<b>Global Real Assets</b>					
Gross	4.23%	6.74%	5.28%	-	-
Net	4.11%	6.46%	4.99%	-	-
Weighted Benchmark	3.21%	6.11%	5.30%	-	-
<b>Real Estate</b>					
Gross	5.94%	6.31%	4.46%	5.98%	10.35%
Net	5.71%	5.86%	3.96%	5.43%	9.60%
NCREIF Total Index	3.59%	7.37%	5.50%	6.13%	8.79%
<b>Diversified</b>					
Gross	3.64%	6.97%	5.56%	5.65%	4.72%
Net	3.55%	6.75%	5.36%	5.42%	4.43%
Weighted Benchmark	3.04%	5.58%	5.22%	4.16%	3.67%
<b>Cash &amp; Equivalents - Net</b>	<b>0.01%</b>	<b>0.05%</b>	<b>1.19%</b>	<b>1.04%</b>	<b>0.59%</b>
90 Day Treasury Bills	(0.00%)	0.09%	1.34%	1.17%	0.63%
<b>Total Fund</b>					
Gross	3.99%	11.77%	8.30%	7.79%	7.31%
Net	3.94%	11.57%	8.12%	7.59%	7.07%
Target*	3.16%	9.19%	7.62%	6.35%	5.67%

\* Current Quarter Target = 60.0% Blmbg Aggregate, 12.0% NDSIB WSI DRA Weighted Benchmark, 11.0% Russell 1000 Index, 8.0% MSCI World ex US, 5.0% NCREIF Total Index, 3.0% Russell 2000 Index and 1.0% 3-month Treasury Bill.

(1) S&P 500 Index through 12/31/2011 and Russell 1000 Index thereafter.

(2) MSCI EAFE through 9/30/2000; 50% Hedged EAFE through 3/31/2011; MSCI EAFE again through 6/30/2016; MSCI World ex-US thereafter.

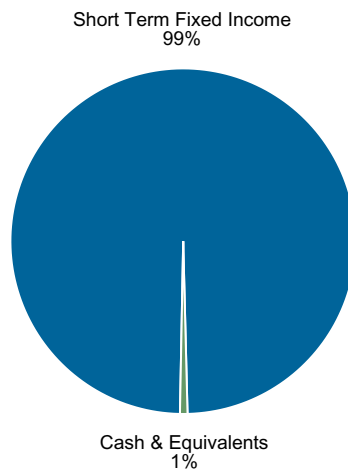
PLEASE REFER TO PAGE 31-33 FOR INVESTMENT MANAGER LEVEL RETURNS.



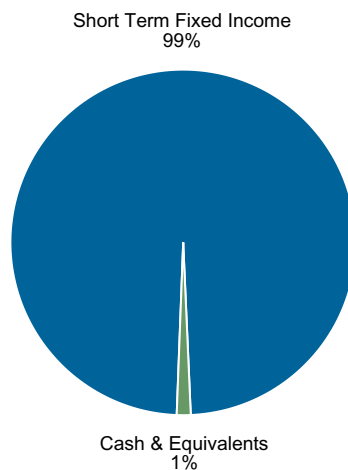
## Actual vs Target Asset Allocation As of June 30, 2021

The first chart below shows the Fund's asset allocation as of June 30, 2021. The second chart shows the Fund's target asset allocation as outlined in the investment policy statement.

### Actual Asset Allocation



### Target Asset Allocation



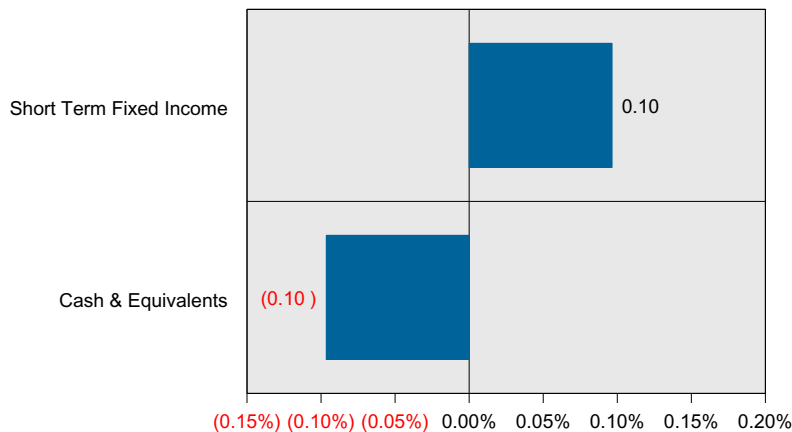
Asset Class	\$000s Actual	Weight Actual	Target	Percent Difference	\$000s Difference
Short Term Fixed Income	744,140	99.3%	98.7%	0.6%	4,248
Cash & Equivalents	5,498	0.7%	1.3%	(0.6%)	(4,248)
Total	749,638	100.0%	100.0%		

\* Current Quarter Target = 98.7% Blmbg Gov/Cred 1-3 Yr and 1.3% 3-month Treasury Bill.

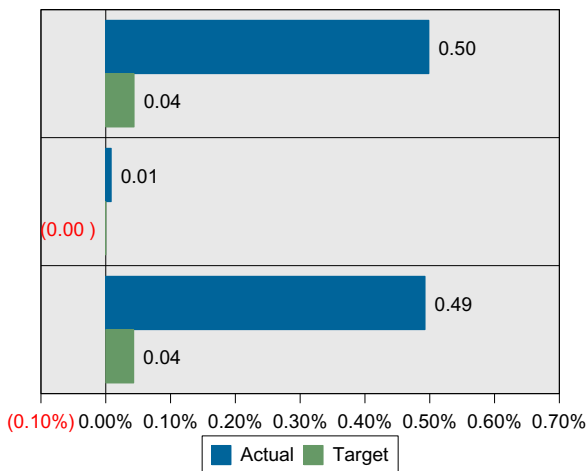
## Quarterly Total Fund Relative Attribution - June 30, 2021

The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.

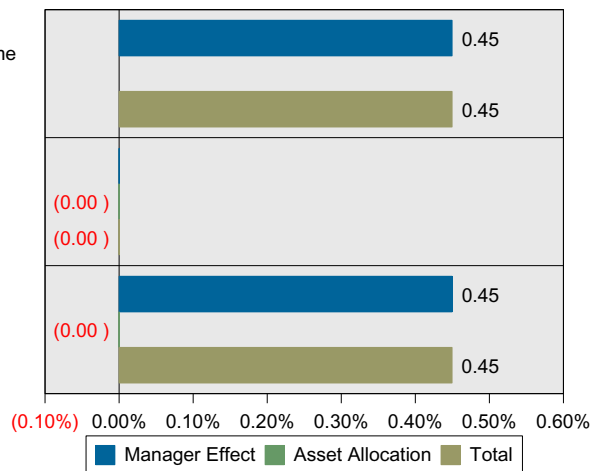
### Asset Class Under or Overweighting



### Actual vs Target Returns



### Relative Attribution by Asset Class



### Relative Attribution Effects for Quarter ended June 30, 2021

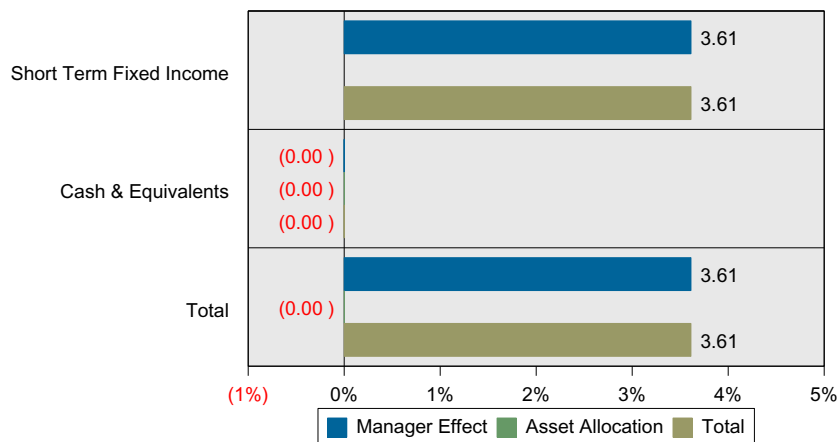
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Short Term Fixed Income	99%	99%	0.50%	0.04%	0.45%	0.00%	0.45%
Cash & Equivalents	1%	1%	0.01%	(0.00%)	0.00%	(0.00%)	(0.00%)
<b>Total</b>			<b>0.49%</b>		<b>0.45%</b>	<b>(0.00%)</b>	<b>0.45%</b>

\* Current Quarter Target = 98.7% Blmbg Gov/Cred 1-3 Yr and 1.3% 3-month Treasury Bill.

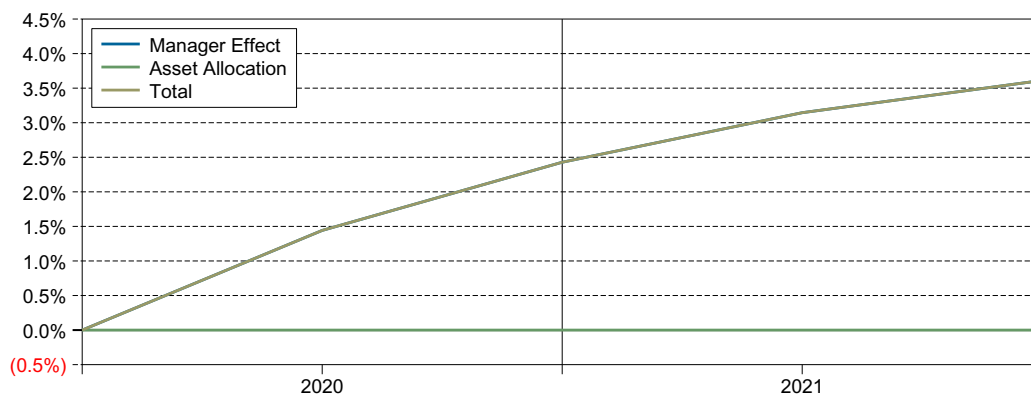
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### One Year Relative Attribution Effects



### Cumulative Relative Attribution Effects



### One Year Relative Attribution Effects

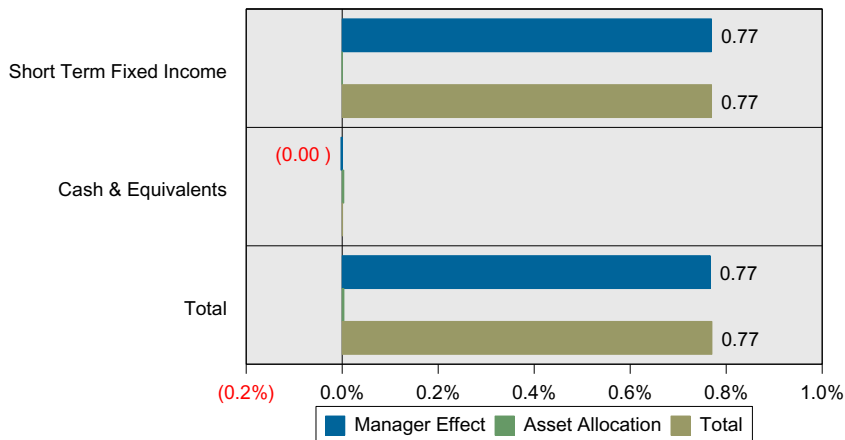
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Short Term Fixed Income	99%	99%	4.09%	0.44%	3.61%	0.00%	3.61%
Cash & Equivalents	1%	1%	0.05%	0.09%	(0.00%)	(0.00%)	(0.00%)
Total			4.05% = 0.44% + 3.61% + (0.00%)				3.61%

\* Current Quarter Target = 98.7% Blmbg Gov/Cred 1-3 Yr and 1.3% 3-month Treasury Bill.

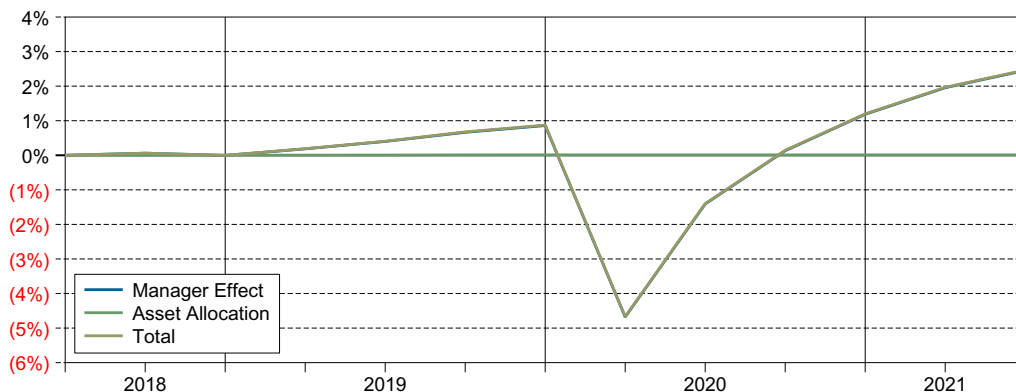
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Three Year Annualized Relative Attribution Effects



### Cumulative Relative Attribution Effects



### Three Year Annualized Relative Attribution Effects

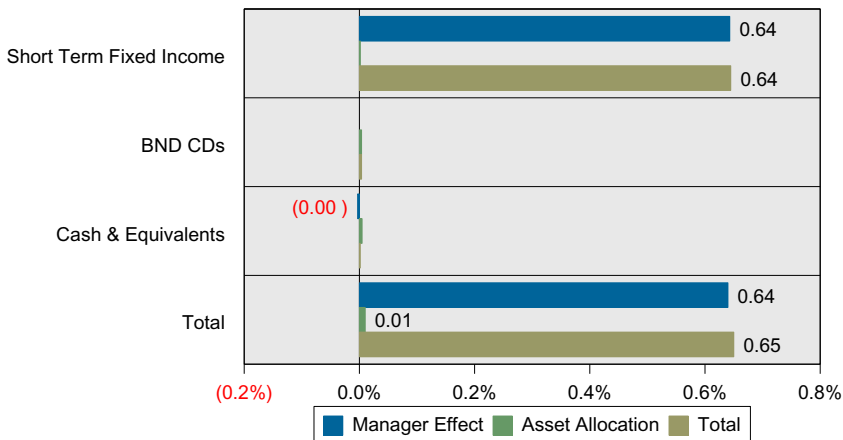
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Short Term Fixed Income	98%	98%	3.73%	2.96%	0.77%	0.00%	0.77%
Cash & Equivalents	2%	2%	1.19%	1.34%	(0.00%)	0.00%	0.00%
<b>Total</b>			<b>3.70%</b>	<b>= 2.93%</b>	<b>+ 0.77%</b>	<b>+ 0.00%</b>	<b>0.77%</b>

\* Current Quarter Target = 98.7% Blmbg Gov/Cred 1-3 Yr and 1.3% 3-month Treasury Bill.

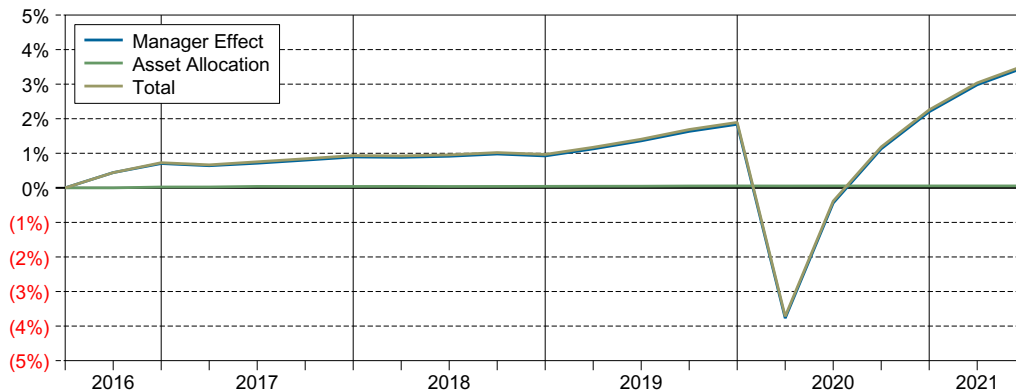
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Five Year Annualized Relative Attribution Effects



### Cumulative Relative Attribution Effects



### Five Year Annualized Relative Attribution Effects

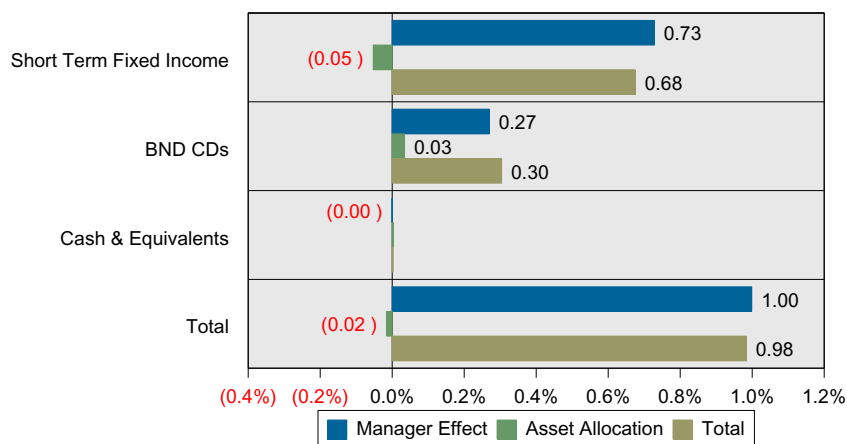
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Short Term Fixed Income	95%	95%	2.49%	1.81%	0.64%	0.00%	0.64%
BND CDs	2%	2%	-	-	0.00%	0.00%	0.00%
Cash & Equivalents	3%	3%	1.04%	1.17%	(0.00%)	0.00%	0.00%
<b>Total</b>			<b>2.52%</b>	<b>1.87%</b>	<b>+ 0.64%</b>	<b>+ 0.01%</b>	<b>0.65%</b>

\* Current Quarter Target = 98.7% Blmbg Gov/Cred 1-3 Yr and 1.3% 3-month Treasury Bill.

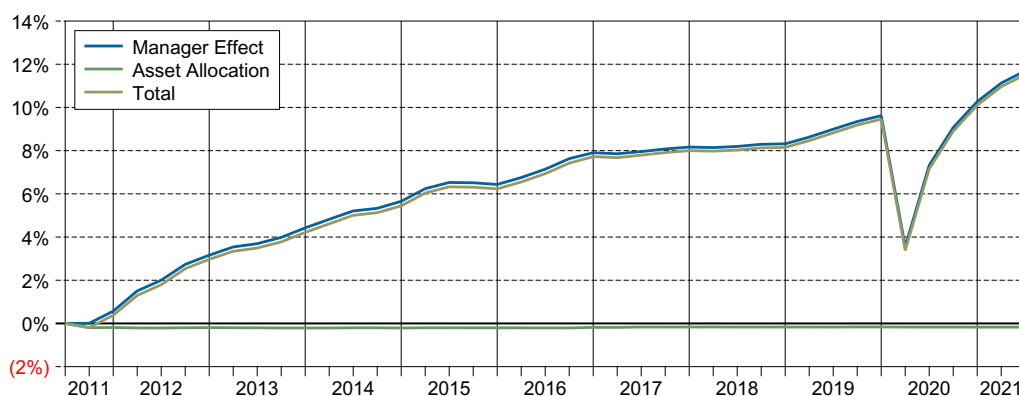
## Cumulative Total Fund Relative Attribution - June 30, 2021

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.

### Ten Year Annualized Relative Attribution Effects



### Cumulative Relative Attribution Effects



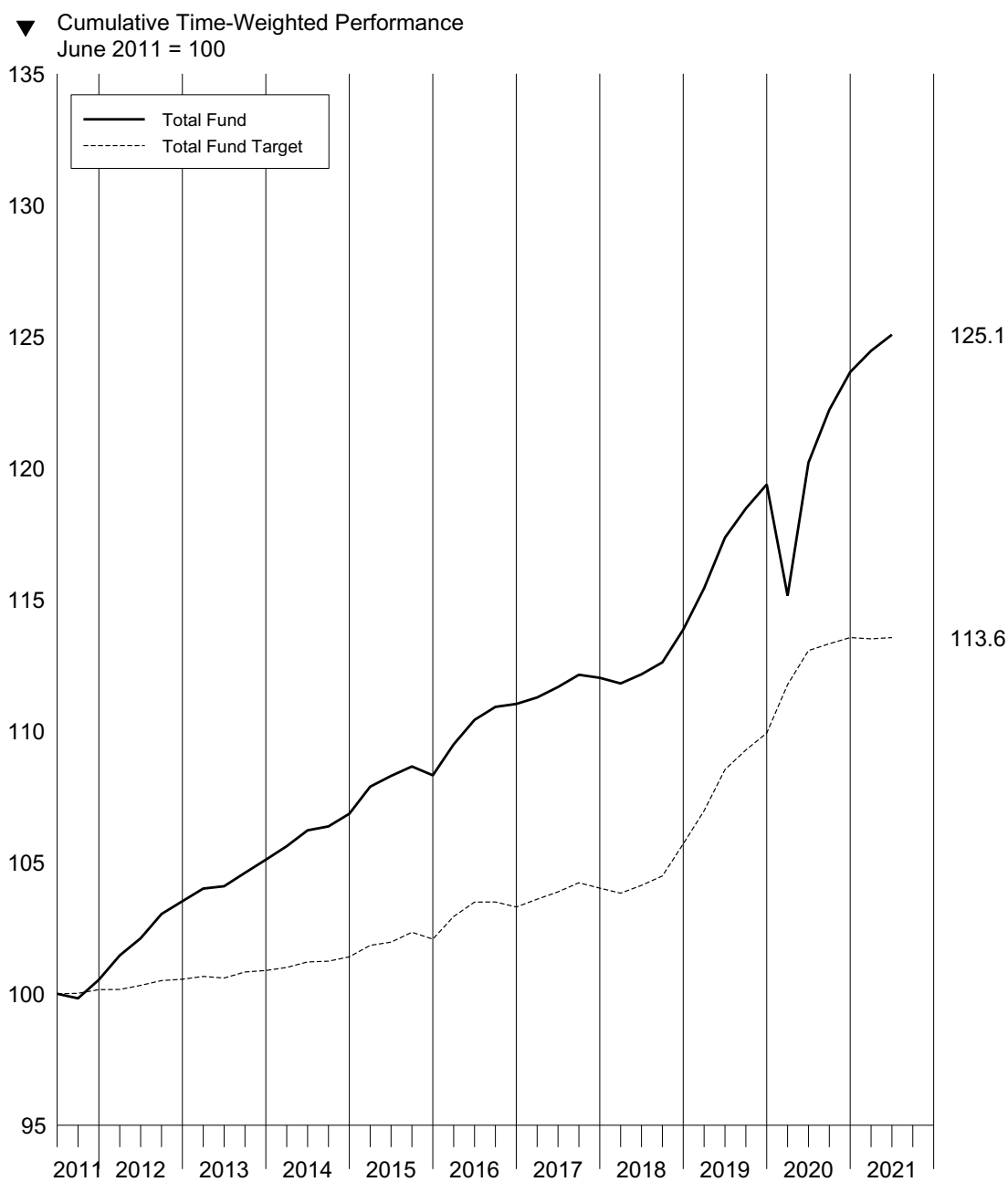
### Ten Year Annualized Relative Attribution Effects

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Short Term Fixed Income	86%	84%	2.05%	1.18%	0.73%	(0.05%)	0.68%
BND CDs	12%	11%	-	-	0.27%	0.03%	0.30%
Cash & Equivalents	3%	5%	0.59%	0.63%	(0.00%)	0.00%	0.00%
<b>Total</b>			<b>2.26%</b>	<b>= 1.28%</b>	<b>+ 1.00%</b>	<b>+ (0.02%)</b>	<b>0.98%</b>

\* Current Quarter Target = 98.7% Blmbg Gov/Cred 1-3 Yr and 1.3% 3-month Treasury Bill.



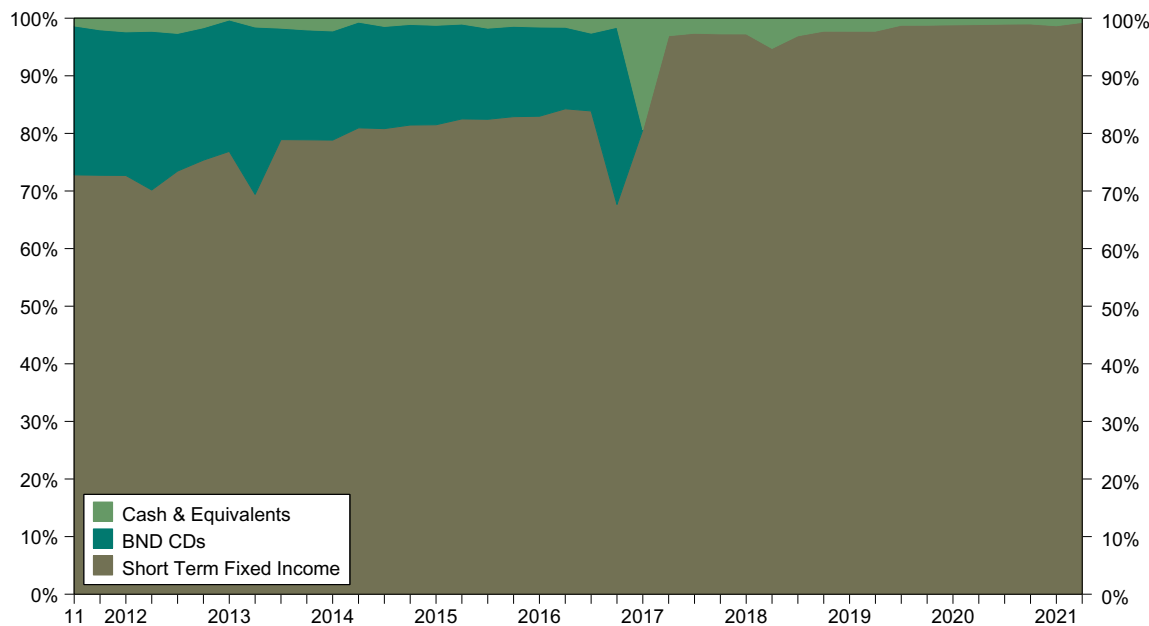
NDSIB - Budget Stabilization Fund  
Cumulative Results



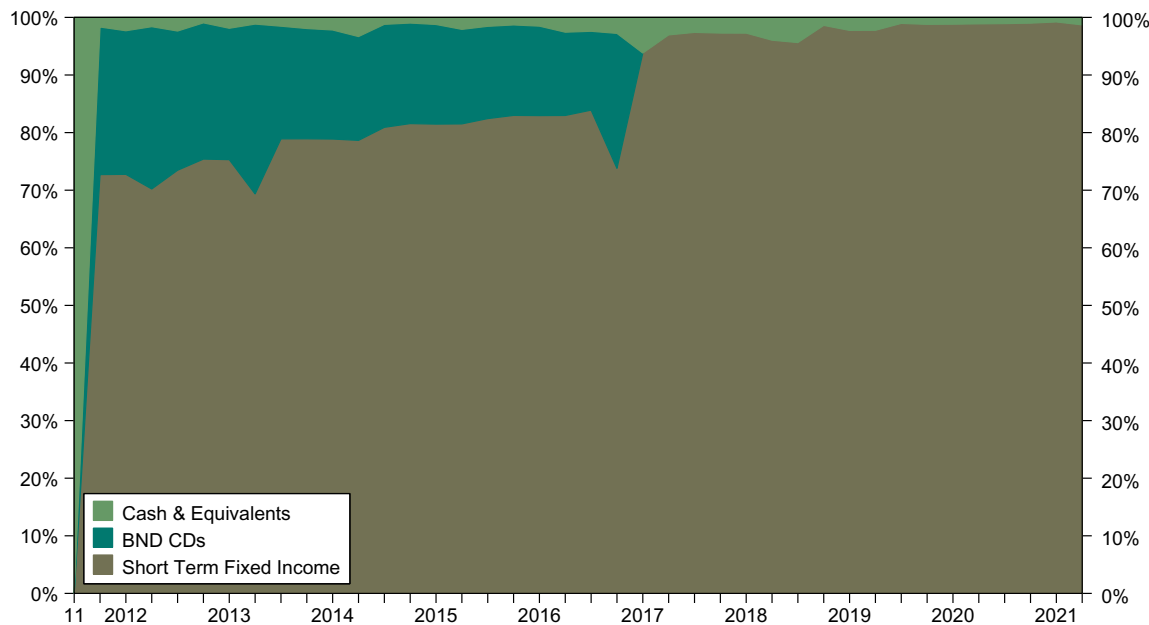
## Actual vs Target Historical Asset Allocation

The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, and the fund's historical target asset allocation.

### Actual Historical Asset Allocation



### Target Historical Asset Allocation



\* Current Quarter Target = 98.7% Blmbg Gov/Cred 1-3 Yr and 1.3% 3-month Treasury Bill.

## Asset Class Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of June 30, 2021, with the distribution as of March 31, 2021. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

	Asset Class Allocation					
	June 30, 2021		Net New Inv.	Inv. Return	March 31, 2021	
	Market Value	Weight			Market Value	Weight
Short Term Fixed Income	\$744,139,925	99.27%	\$(1,606,843)	\$3,699,654	\$742,047,114	98.69%
Cash & Equivalents	\$5,497,602	0.73%	\$(4,352,215)	\$802	\$9,849,014	1.31%
Total Fund	\$749,637,527	100.0%	\$(5,959,058)	\$3,700,457	\$751,896,128	100.0%

PLEASE REFER TO PAGE 30 FOR INVESTMENT MANAGER LEVEL ASSET ALLOCATION.

## Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended June 30, 2021. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended June 30, 2021					
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
<b>Short Term Fixed Income</b>					
Gross	0.50%	4.09%	3.73%	2.49%	2.05%
Net	0.46%	3.96%	3.62%	2.32%	1.90%
Blended Benchmark(1)	0.04%	0.44%	2.96%	1.81%	-
<b>Cash &amp; Equivalents - Net</b>	<b>0.01%</b>	<b>0.05%</b>	<b>1.19%</b>	<b>1.04%</b>	<b>0.59%</b>
3-month Treasury Bill	(0.00%)	0.09%	1.34%	1.17%	0.63%
<b>Total Fund</b>					
Gross	0.49%	4.05%	3.70%	2.52%	2.26%
Net	0.45%	3.92%	3.59%	2.37%	2.14%
Target*	0.04%	0.44%	2.93%	1.87%	1.28%

\* Current Quarter Target = 98.7% Blmbg Gov/Cred 1-3 Yr and 1.3% 3-month Treasury Bill.

(1) Blmbg Gov 1-3 Yr through March 31, 2017 and Blmbg Gov/Credit 1-3 Yr thereafter.

PLEASE REFER TO PAGES 31-33 FOR INVESTMENT MANAGER LEVEL RETURNS.



## Large Cap Period Ended June 30, 2021

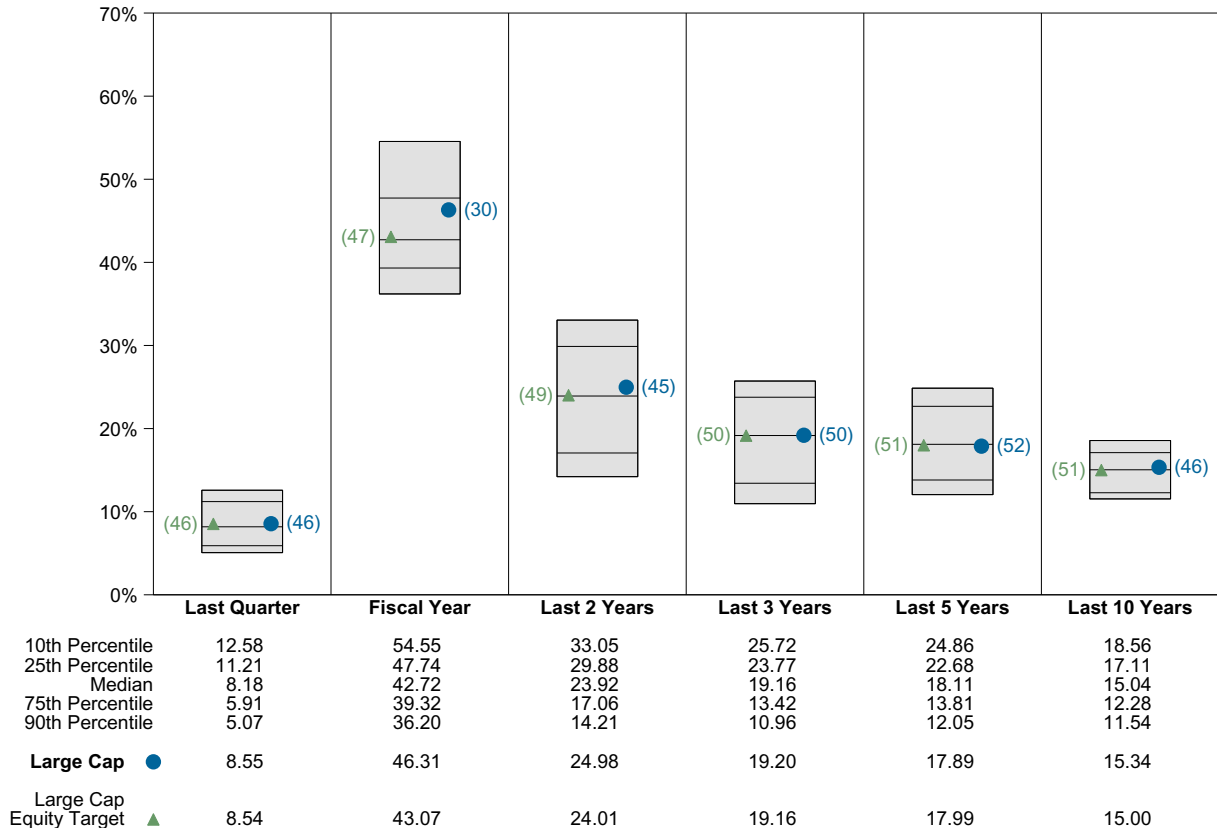
### Quarterly Summary and Highlights

- Large Cap's portfolio posted a 8.55% return for the quarter placing it in the 46 percentile of the Callan Large Capitalization group for the quarter and in the 30 percentile for the last year.
- Large Cap's portfolio outperformed the Large Cap Equity Target by 0.02% for the quarter and outperformed the Large Cap Equity Target for the year by 3.24%.

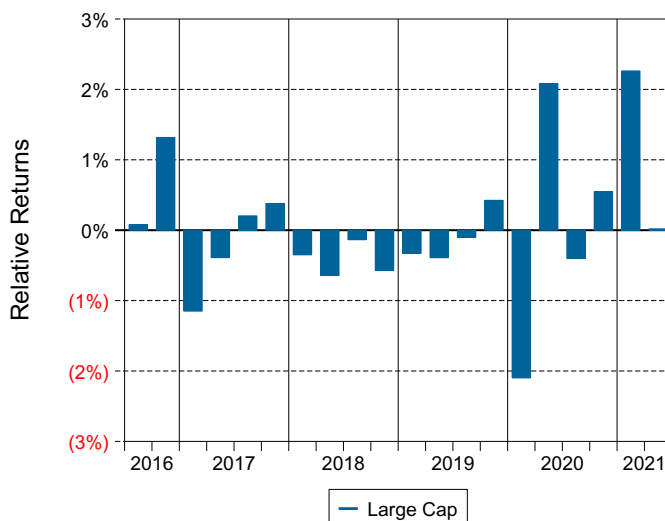
### Quarterly Asset Growth

Beginning Market Value	\$285,839,297
Net New Investment	\$-32,019,125
Investment Gains/(Losses)	\$23,673,804
Ending Market Value	\$277,493,976

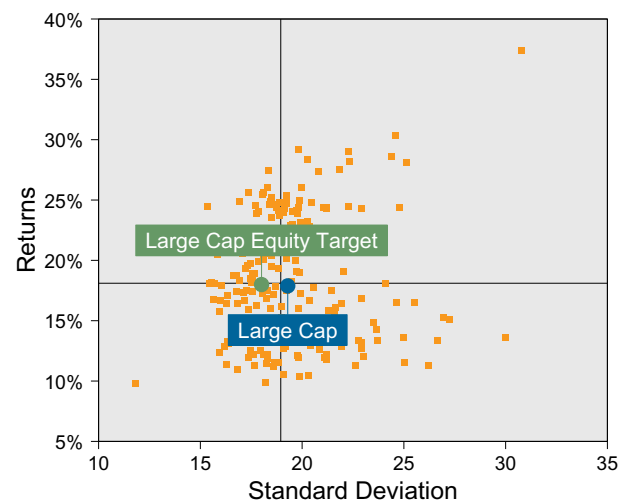
### Performance vs Callan Large Capitalization (Gross)



### Relative Return vs Large Cap Equity Target



### Callan Large Capitalization (Gross) Annualized Five Year Risk vs Return



## Parametric Large Cap Period Ended June 30, 2021

### Investment Philosophy

Parametric Clifton utilizes equity futures to gain benchmark exposure in constructing the portfolio it believes provides the greatest likelihood of outperforming the index. In this construction the underlying cash portfolio is invested in a liquid, high quality short duration fixed income portfolio. Over market cycles excess return generated by the short duration portfolio, when added to the performance of futures is expected to allow the strategy to achieve 0.50% to 1.00% of gross excess annual performance.

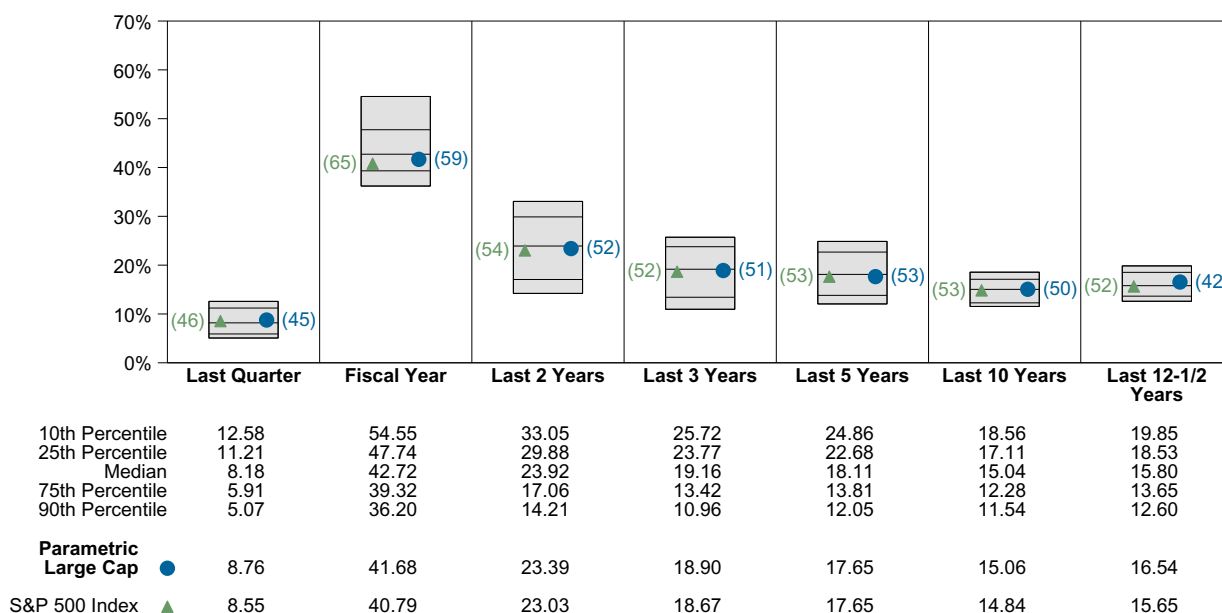
### Quarterly Summary and Highlights

- Parametric Large Cap's portfolio posted a 8.76% return for the quarter placing it in the 45 percentile of the Callan Large Capitalization group for the quarter and in the 59 percentile for the last year.
- Parametric Large Cap's portfolio outperformed the S&P 500 Index by 0.21% for the quarter and outperformed the S&P 500 Index for the year by 0.88%.

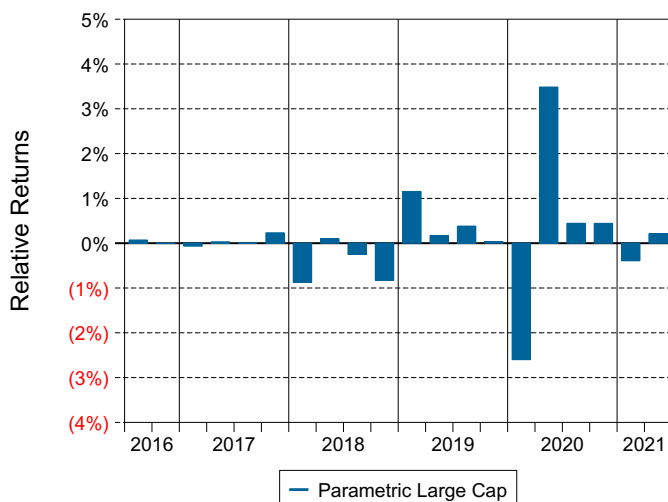
### Quarterly Asset Growth

Beginning Market Value	\$50,489,733
Net New Investment	\$0
Investment Gains/(Losses)	\$4,423,365
Ending Market Value	\$54,913,098

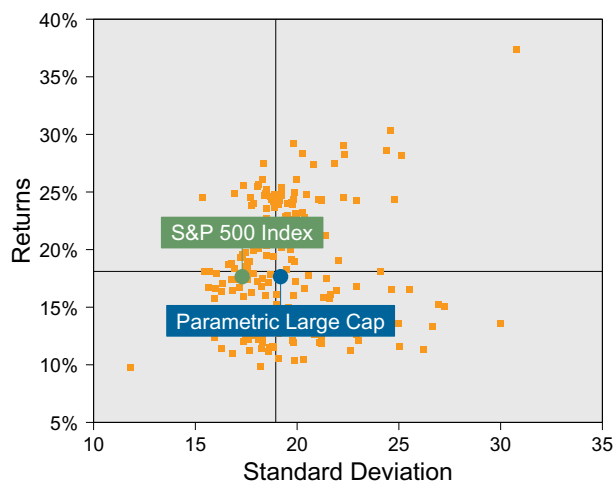
### Performance vs Callan Large Capitalization (Gross)



### Relative Return vs S&P 500 Index



### Callan Large Capitalization (Gross) Annualized Five Year Risk vs Return



## L.A. Capital Period Ended June 30, 2021

### Investment Philosophy

The LA Capital Structured portfolio is a large growth portfolio benchmarked to the Russell 1000 Growth Index. It is an active assignment meaning that it targets a 2% alpha and constrains its risk budget (tracking error) to 4% relative to the benchmark. LA Capital believes that investment results are driven by Investor Preferences and thus recognize that when preferences shift a different posture related to that factor is warranted.

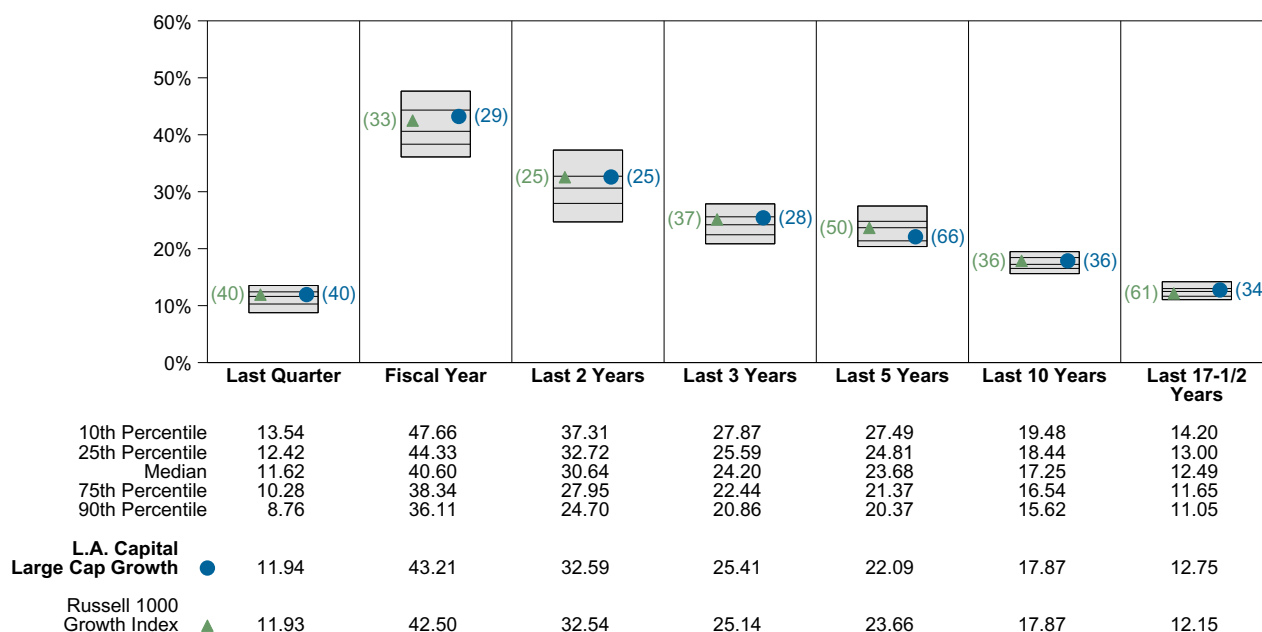
### Quarterly Summary and Highlights

- L.A. Capital Large Cap Growth's portfolio posted a 11.94% return for the quarter placing it in the 40 percentile of the Callan Large Cap Growth group for the quarter and in the 29 percentile for the last year.
- L.A. Capital Large Cap Growth's portfolio outperformed the Russell 1000 Growth Index by 0.00% for the quarter and outperformed the Russell 1000 Growth Index for the year by 0.71%.

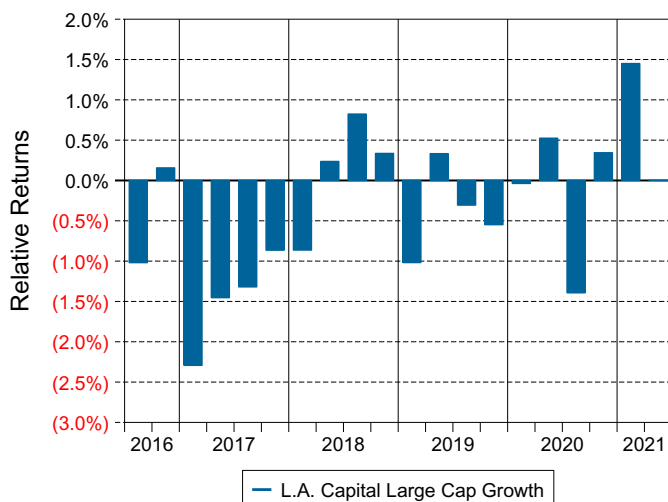
### Quarterly Asset Growth

Beginning Market Value	\$85,489,842
Net New Investment	\$-10,942,890
Investment Gains/(Losses)	\$9,819,267
Ending Market Value	\$84,366,219

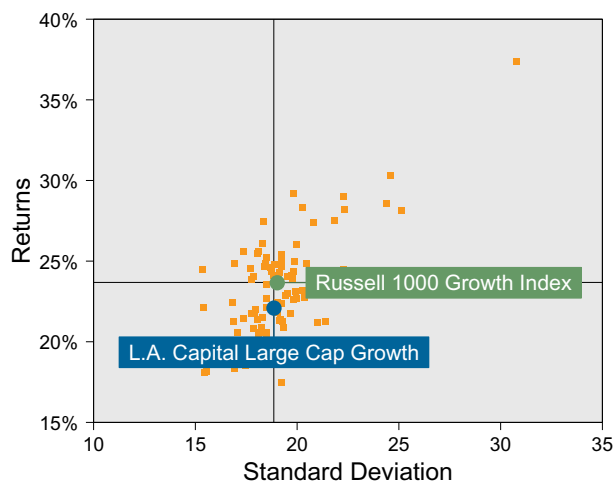
### Performance vs Callan Large Cap Growth (Gross)



### Relative Return vs Russell 1000 Growth Index



### Callan Large Cap Growth (Gross) Annualized Five Year Risk vs Return





## L.A. Capital Enhanced Period Ended June 30, 2021

### Investment Philosophy

The LA Capital Enhanced portfolio is a large core portfolio benchmarked to the Russell 1000 Index. Characterized as an enhanced index assignment, its objective is to track the benchmark with lower variability. The pension portfolio began in August of 2000 and the insurance portfolio was initiated in April of 2004. Since October of 2006 a small portion of each of the two core accounts was allocated into the Large Cap Alpha Fund with intent to add incremental alpha to the assignment given that the information ratio was expected to be higher.

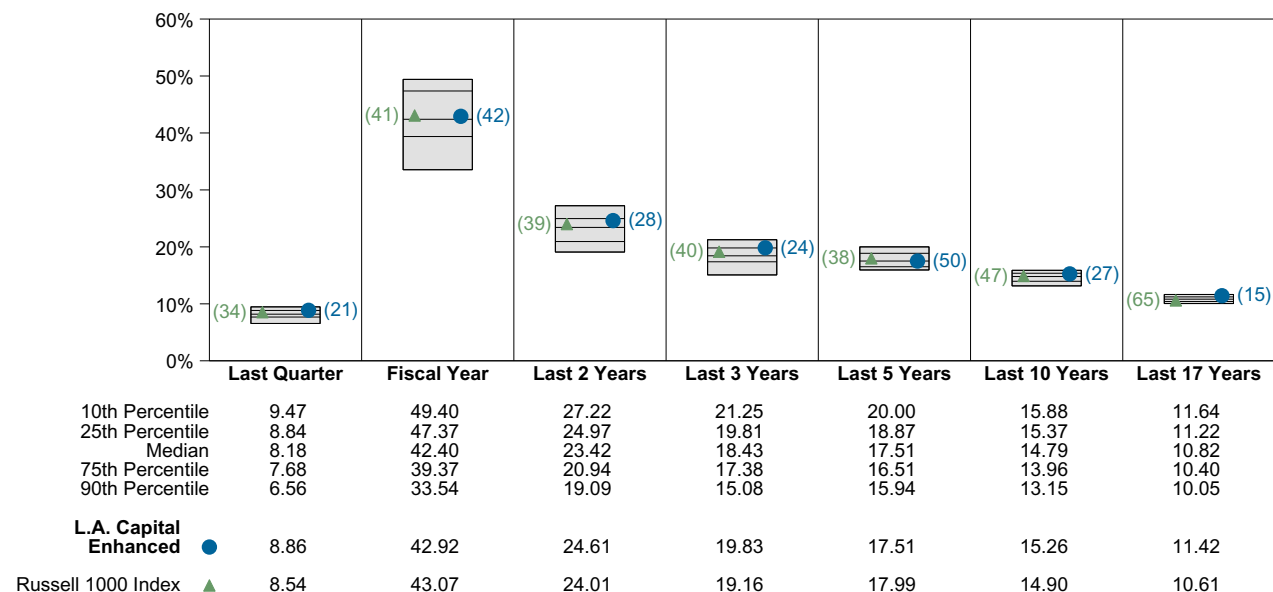
### Quarterly Summary and Highlights

- L.A. Capital Enhanced's portfolio posted a 8.86% return for the quarter placing it in the 21 percentile of the Callan Large Cap Core group for the quarter and in the 42 percentile for the last year.
- L.A. Capital Enhanced's portfolio outperformed the Russell 1000 Index by 0.32% for the quarter and underperformed the Russell 1000 Index for the year by 0.15%.

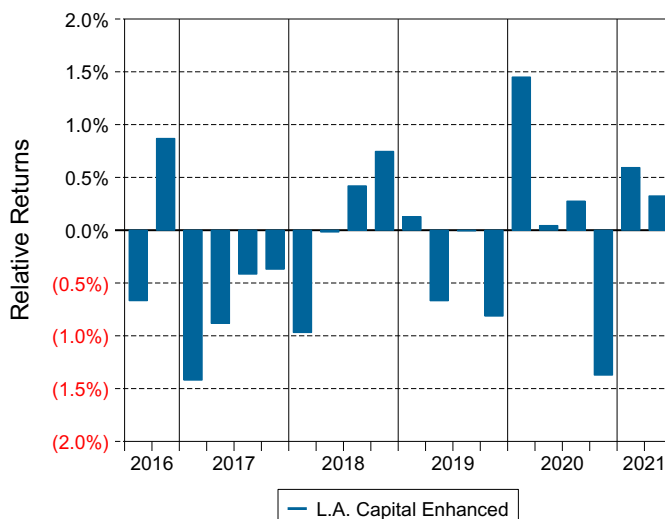
### Quarterly Asset Growth

Beginning Market Value	\$63,191,236
Net New Investment	\$-11,016,783
Investment Gains/(Losses)	\$5,361,277
Ending Market Value	\$57,535,730

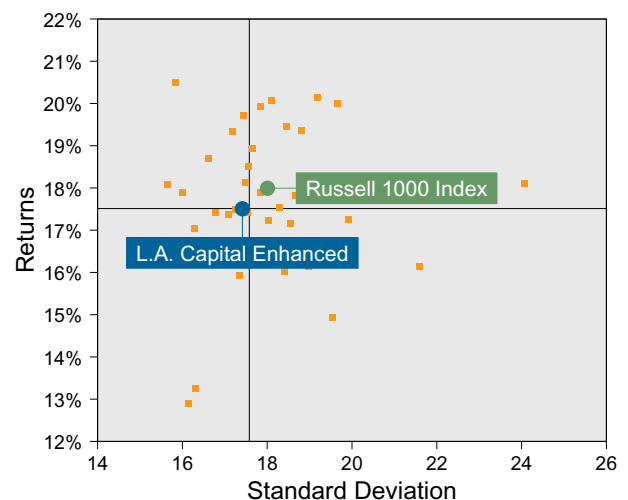
### Performance vs Callan Large Cap Core (Gross)



### Relative Return vs Russell 1000 Index



### Callan Large Cap Core (Gross) Annualized Five Year Risk vs Return



# LSV Asset Management

## Period Ended June 30, 2021

### Investment Philosophy

The objective of LSV Asset Management's Large Cap Value Equity (U.S.) strategy is to outperform the Russell 1000 Value by at least 200 basis points (gross of fees) per annum over a 3-5 year period with a tracking error of approximately 4%. Their stock selection process is a quantitative approach that ranks a broad universe of stocks on a combination of value and momentum factors and seeks to invest approximately 100 stocks in the most attractive securities possible within strict risk parameters to control the portfolio's tracking error relative to the benchmark. The resulting portfolio is broadly diversified across industry groups and fully invested.

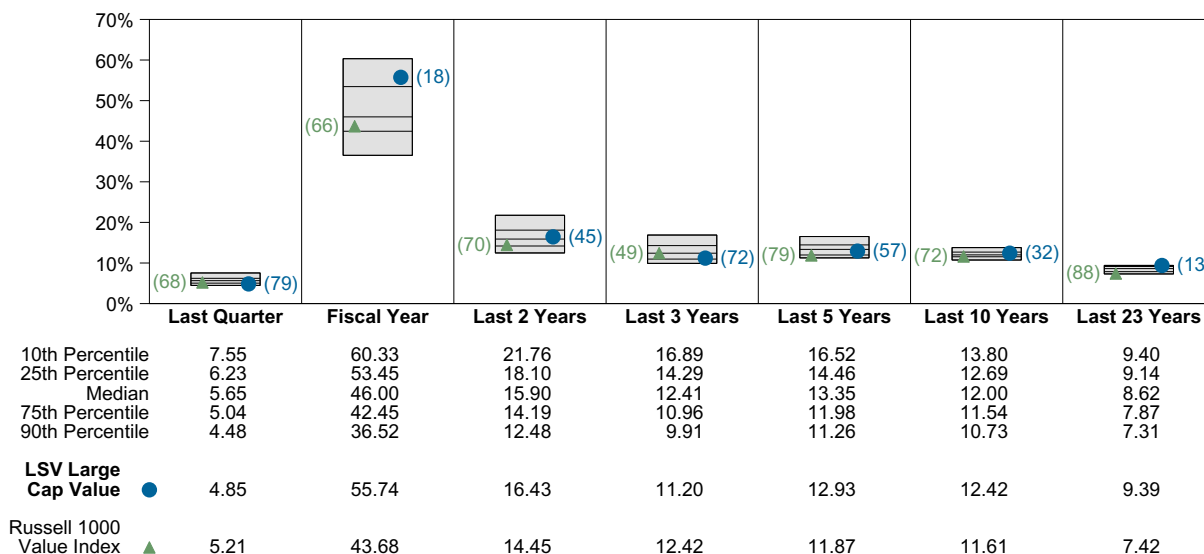
### Quarterly Summary and Highlights

- LSV Large Cap Value's portfolio posted a 4.85% return for the quarter placing it in the 79 percentile of the Callan Large Cap Value group for the quarter and in the 18 percentile for the last year.
- LSV Large Cap Value's portfolio underperformed the Russell 1000 Value Index by 0.36% for the quarter and outperformed the Russell 1000 Value Index for the year by 12.05%.

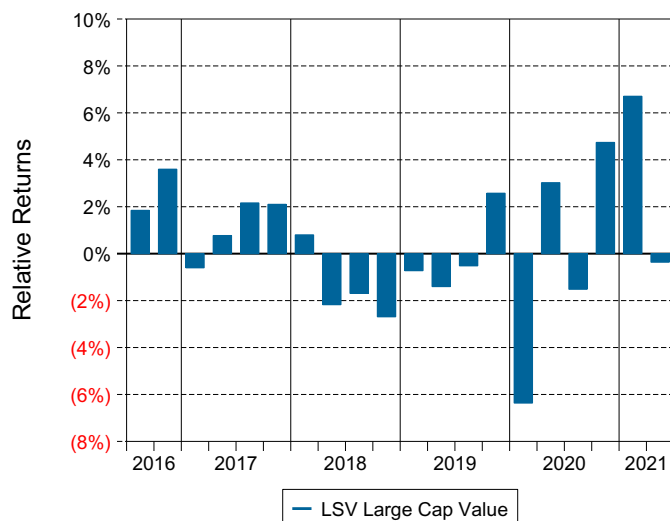
### Quarterly Asset Growth

Beginning Market Value	\$86,668,485
Net New Investment	\$-10,059,452
Investment Gains/(Losses)	\$4,069,895
Ending Market Value	\$80,678,928

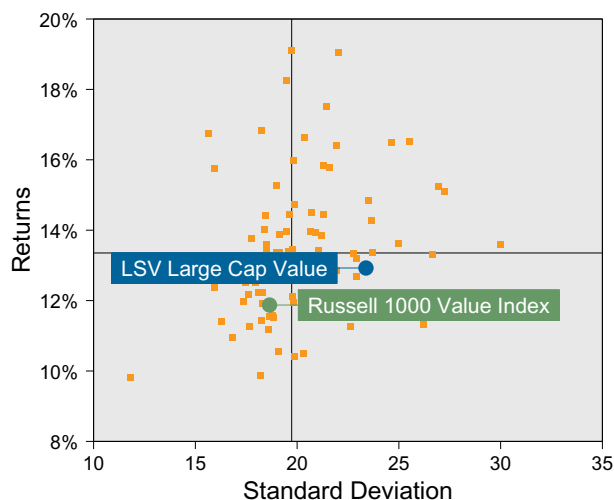
### Performance vs Callan Large Cap Value (Gross)



### Relative Return vs Russell 1000 Value Index



### Callan Large Cap Value (Gross) Annualized Five Year Risk vs Return



## Small Cap Period Ended June 30, 2021

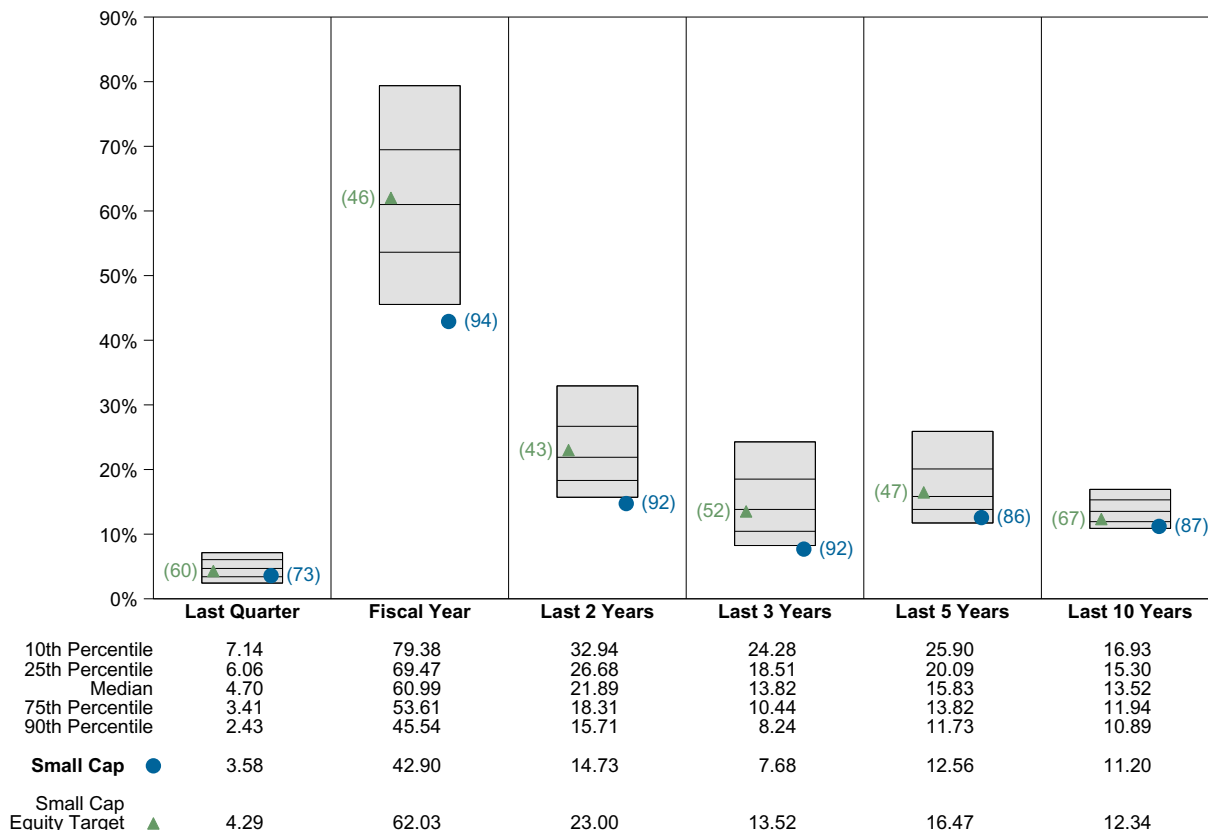
### Quarterly Summary and Highlights

- Small Cap's portfolio posted a 3.58% return for the quarter placing it in the 73 percentile of the Callan Small Capitalization group for the quarter and in the 94 percentile for the last year.
- Small Cap's portfolio underperformed the Small Cap Equity Target by 0.71% for the quarter and underperformed the Small Cap Equity Target for the year by 19.12%.

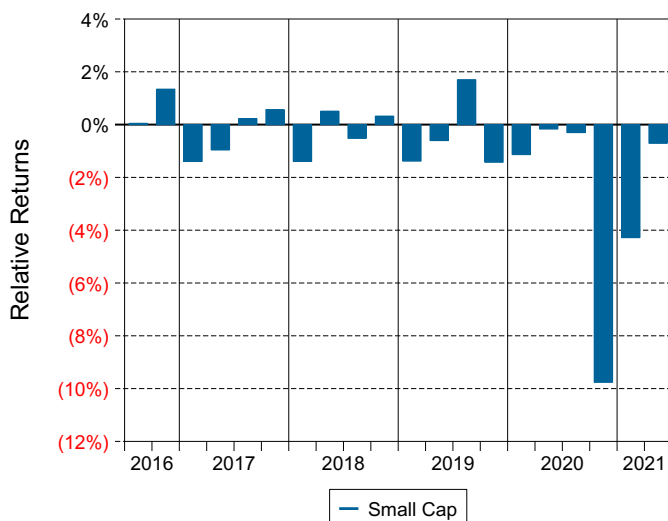
### Quarterly Asset Growth

Beginning Market Value	\$80,923,984
Net New Investment	\$-5,626,560
Investment Gains/(Losses)	\$2,923,549
Ending Market Value	\$78,220,973

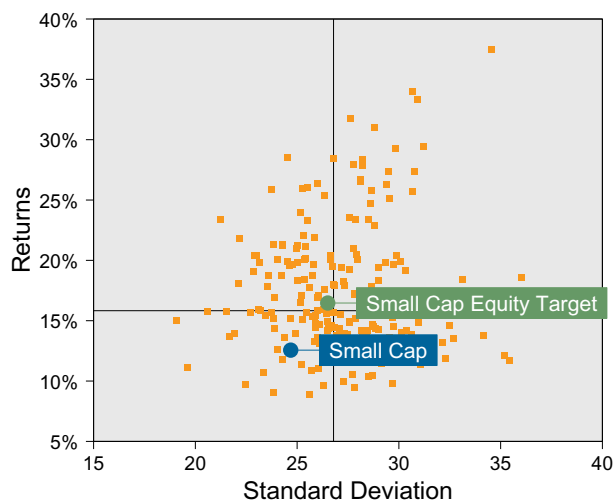
### Performance vs Callan Small Capitalization (Gross)



### Relative Return vs Small Cap Equity Target



### Callan Small Capitalization (Gross) Annualized Five Year Risk vs Return



## Atlanta Capital Period Ended June 30, 2021

### Investment Philosophy

Atlanta believes that high quality companies produce consistently increasing earnings and dividends, thereby providing attractive returns with moderate risk over the long-term.

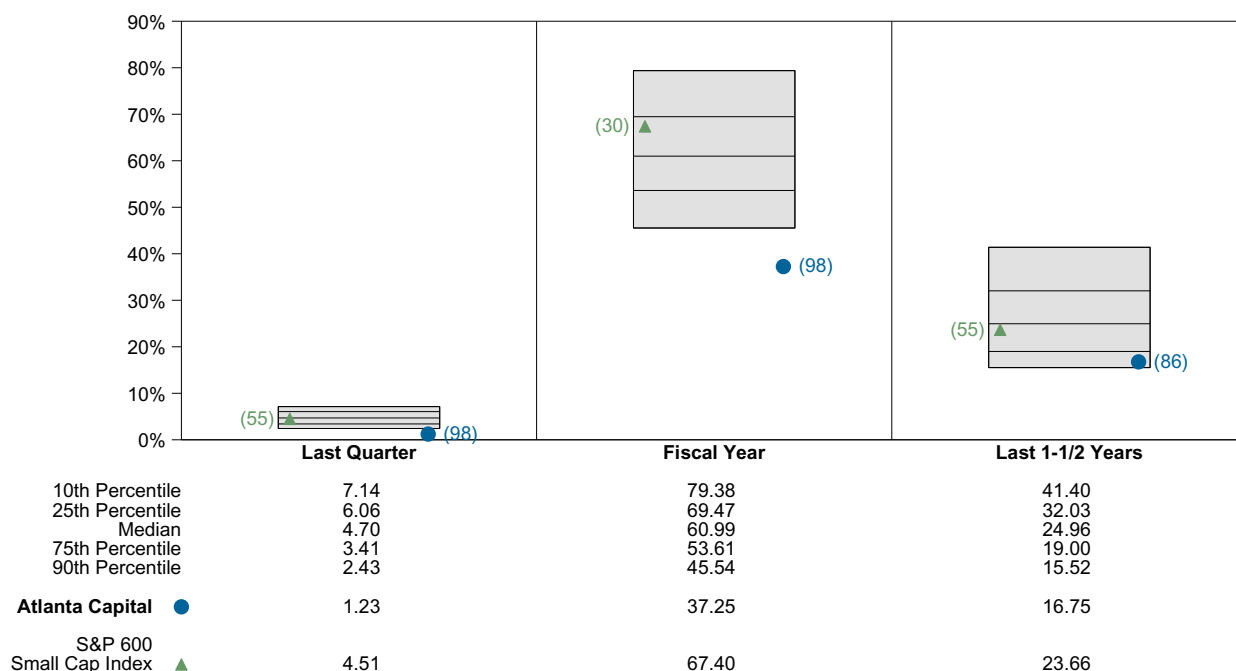
### Quarterly Summary and Highlights

- Atlanta Capital's portfolio posted a 1.23% return for the quarter placing it in the 98 percentile of the Callan Small Capitalization group for the quarter and in the 98 percentile for the last year.
- Atlanta Capital's portfolio underperformed the S&P 600 Small Cap Index by 3.27% for the quarter and underperformed the S&P 600 Small Cap Index for the year by 30.15%.

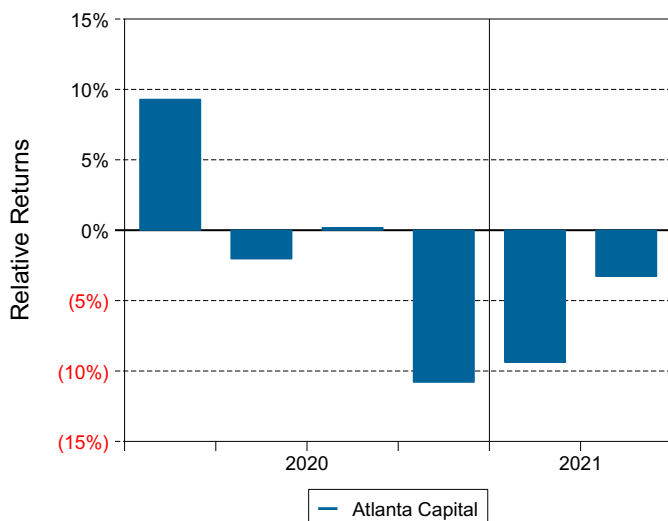
### Quarterly Asset Growth

Beginning Market Value	\$26,653,394
Net New Investment	\$-1,539,164
Investment Gains/(Losses)	\$346,778
Ending Market Value	\$25,461,008

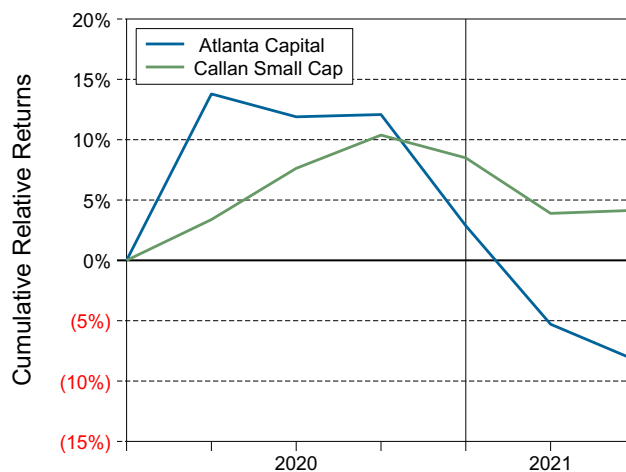
### Performance vs Callan Small Capitalization (Gross)



### Relative Return vs S&P 600 Small Cap Index



### Cumulative Returns vs S&P 600 Small Cap Index



## Riverbridge Small Cap Growth Period Ended June 30, 2021

### Investment Philosophy

Riverbridge believes earnings power determines the value of a franchise. They focus on companies that are building earnings power and intrinsic value of the company over long periods of time. They also look for high-quality growth companies that demonstrate the ability to sustain strong secular earnings growth, regardless of overall economic conditions.

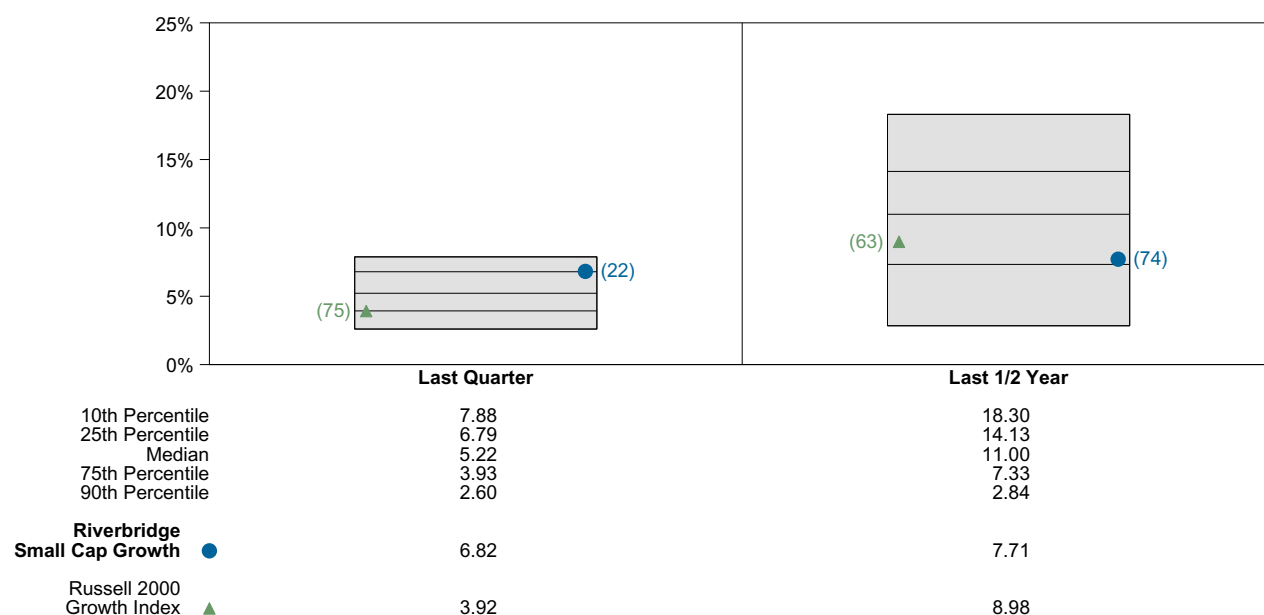
### Quarterly Summary and Highlights

- Riverbridge Small Cap Growth's portfolio posted a 6.82% return for the quarter placing it in the 22 percentile of the Callan Small Cap Growth group for the quarter and in the 74 percentile for the last one-half year.
- Riverbridge Small Cap Growth's portfolio outperformed the Russell 2000 Growth Index by 2.90% for the quarter and underperformed the Russell 2000 Growth Index for the one-half year by 1.27%.

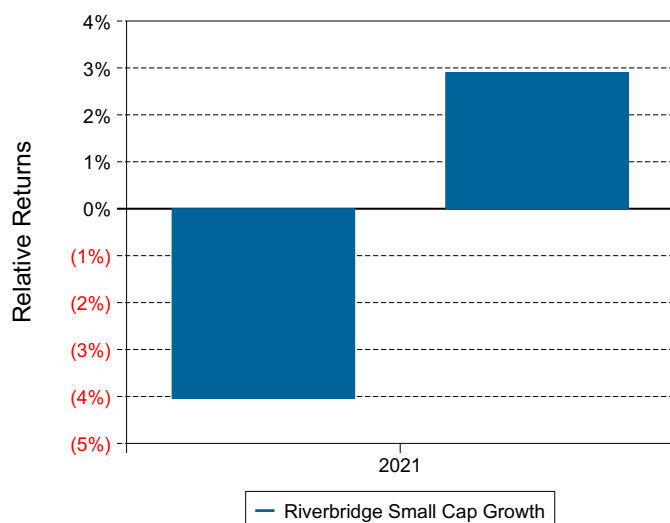
### Quarterly Asset Growth

Beginning Market Value	\$25,790,371
Net New Investment	\$-47,006
Investment Gains/(Losses)	\$1,757,512
Ending Market Value	\$27,500,877

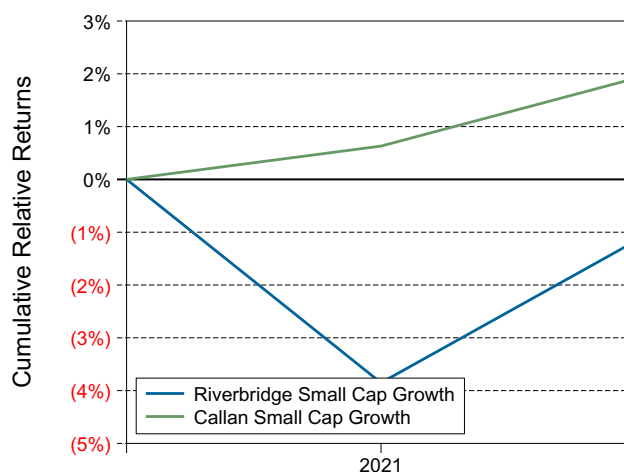
### Performance vs Callan Small Cap Growth (Gross)



### Relative Return vs Russell 2000 Growth Index



### Cumulative Returns vs Russell 2000 Growth Index



## Sycamore Small Cap Value Period Ended June 30, 2021

### Investment Philosophy

The Small Cap Value strategy employs a bottom-up investment process to build a diversified portfolio of small cap companies that the investment team believes to possess each of the following attributes: better business with above-average financial strength, an exploitable valuation disparity between the current market value and the estimated fair value, and finally, the prospect for improving fundamentals.

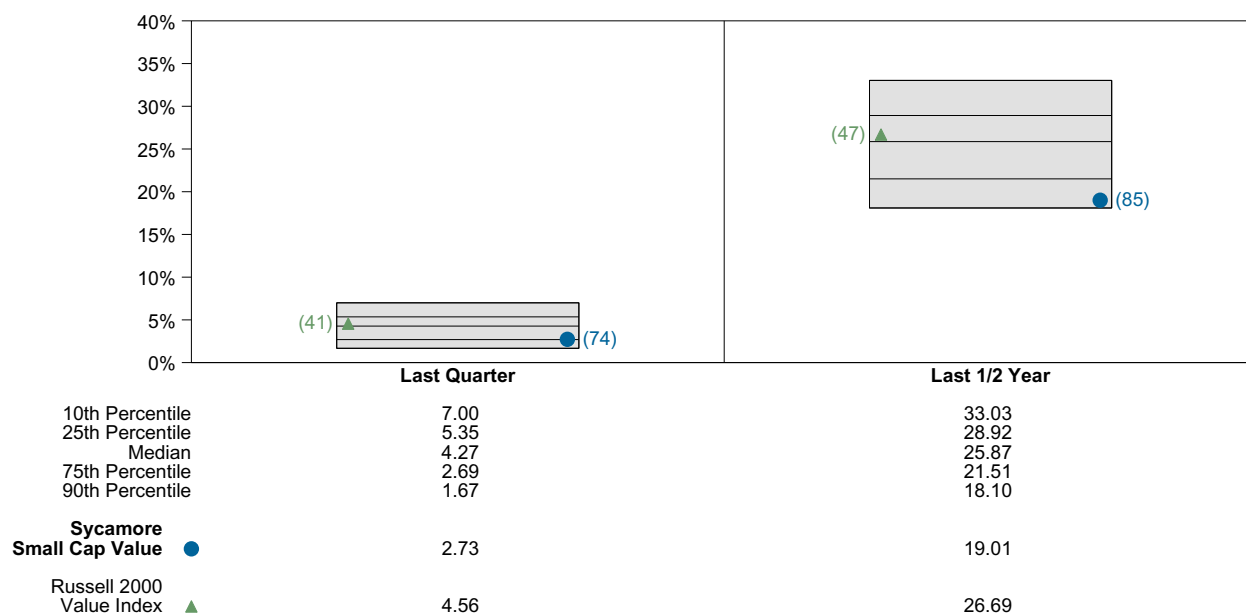
### Quarterly Summary and Highlights

- Sycamore Small Cap Value's portfolio posted a 2.73% return for the quarter placing it in the 74 percentile of the Callan Small Cap Value group for the quarter and in the 85 percentile for the last one-half year.
- Sycamore Small Cap Value's portfolio underperformed the Russell 2000 Value Index by 1.84% for the quarter and underperformed the Russell 2000 Value Index for the one-half year by 7.69%.

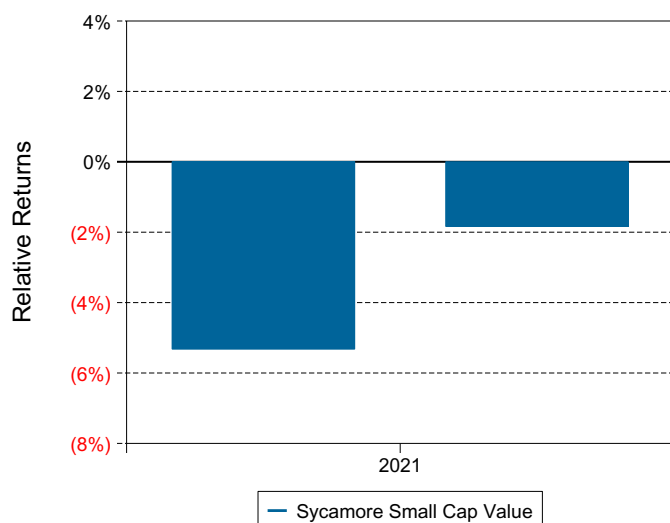
### Quarterly Asset Growth

Beginning Market Value	\$28,480,219
Net New Investment	\$-4,040,390
Investment Gains/(Losses)	\$819,259
Ending Market Value	\$25,259,088

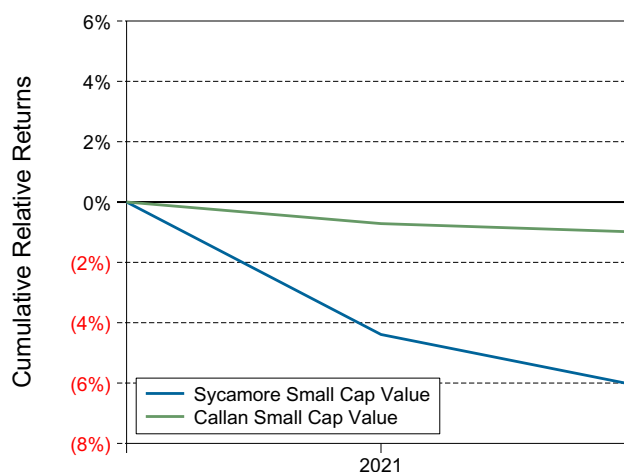
### Performance vs Callan Small Cap Value (Gross)



### Relative Return vs Russell 2000 Value Index



### Cumulative Returns vs Russell 2000 Value Index





## International Equity Period Ended June 30, 2021

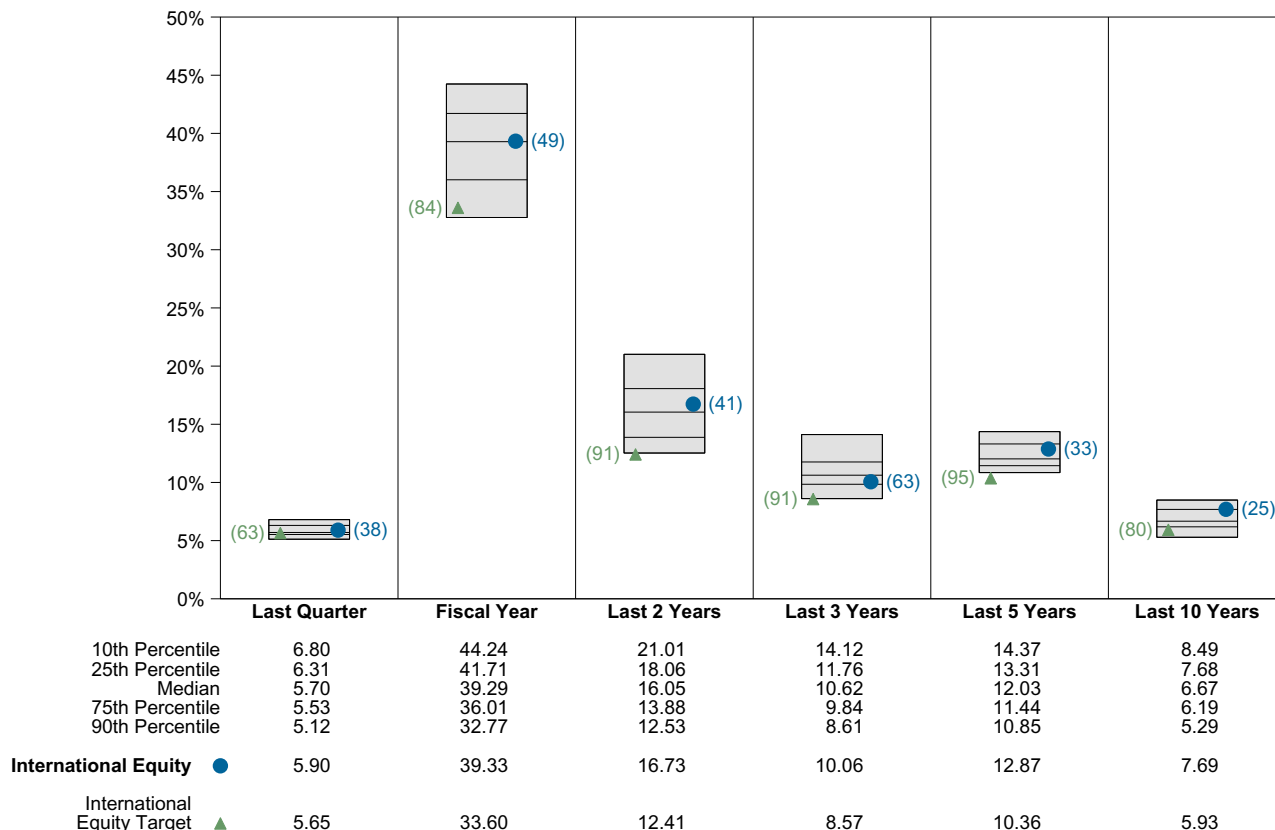
### Quarterly Summary and Highlights

- International Equity's portfolio posted a 5.90% return for the quarter placing it in the 38 percentile of the Public Fund - International Equity group for the quarter and in the 49 percentile for the last year.
- International Equity's portfolio outperformed the International Equity Target by 0.25% for the quarter and outperformed the International Equity Target for the year by 5.73%.

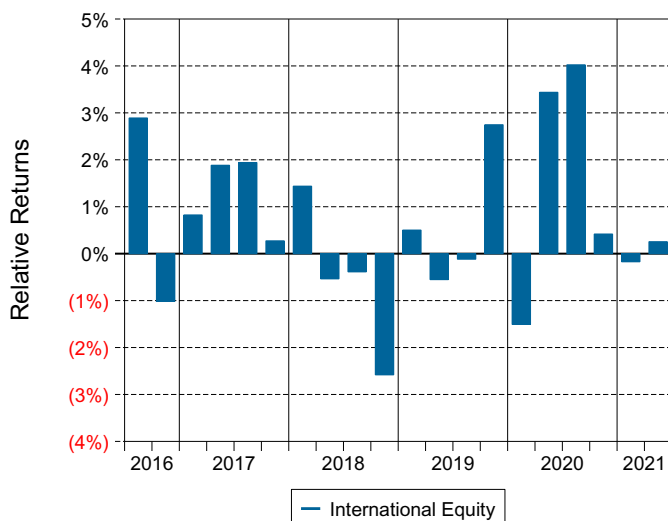
### Quarterly Asset Growth

Beginning Market Value	\$194,260,915
Net New Investment	\$-13,035,403
Investment Gains/(Losses)	\$11,402,644
Ending Market Value	\$192,628,156

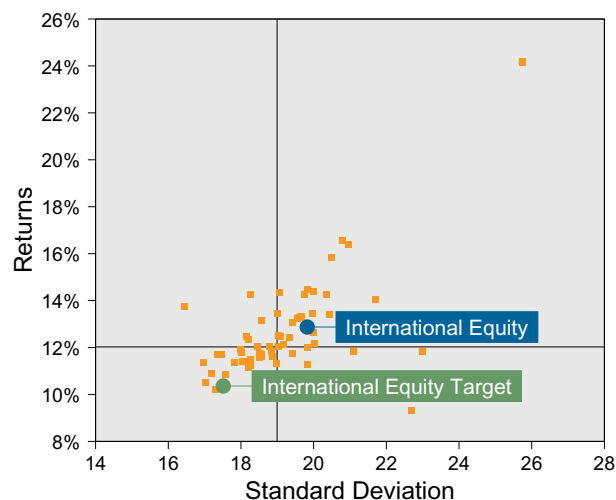
### Performance vs Public Fund - International Equity (Gross)



### Relative Return vs International Equity Target



### Public Fund - International Equity (Gross) Annualized Five Year Risk vs Return





## DFA Intl Small Cap Value Period Ended June 30, 2021

### Investment Philosophy

The International Small Cap Value Portfolio invests in the stocks of small, non-US developed markets companies that Dimensional believes to be value stocks at the time of purchase. Specifically, it looks at companies that fall within the smallest 8-10% of each country's market capitalization, and who's shares have a high book value in relation to their market value (BtM). It does not invest in emerging markets.

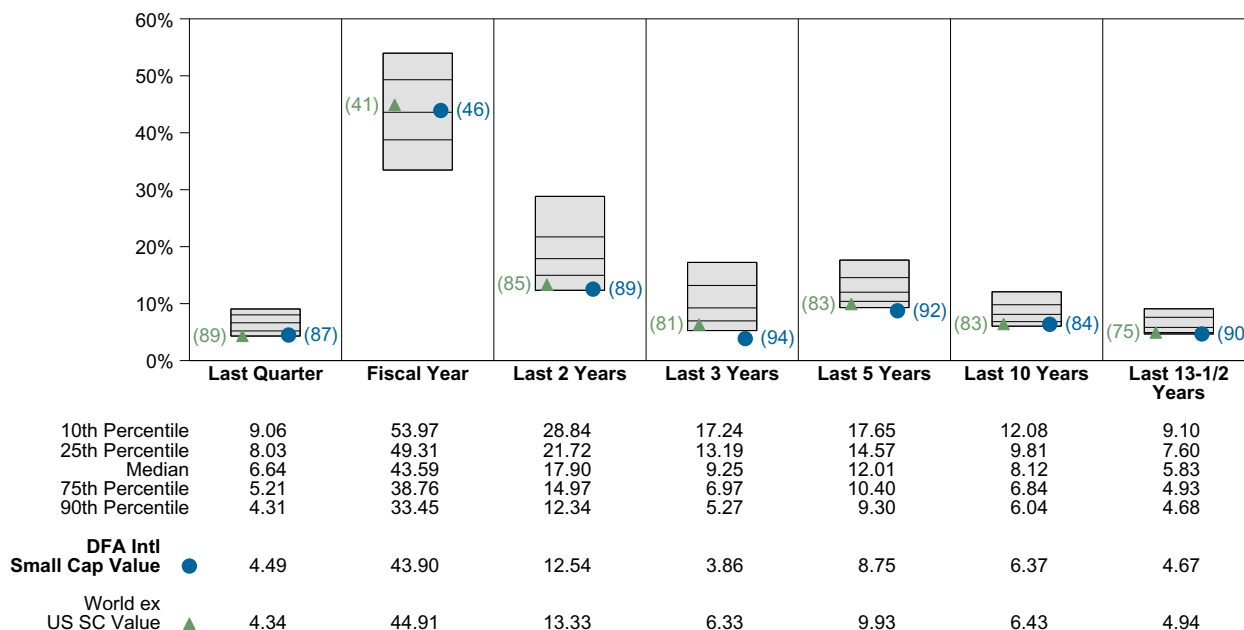
### Quarterly Summary and Highlights

- DFA Intl Small Cap Value's portfolio posted a 4.49% return for the quarter placing it in the 87 percentile of the Callan International Small Cap Mut Funds group for the quarter and in the 46 percentile for the last year.
- DFA Intl Small Cap Value's portfolio outperformed the World ex US SC Value by 0.15% for the quarter and underperformed the World ex US SC Value for the year by 1.00%.

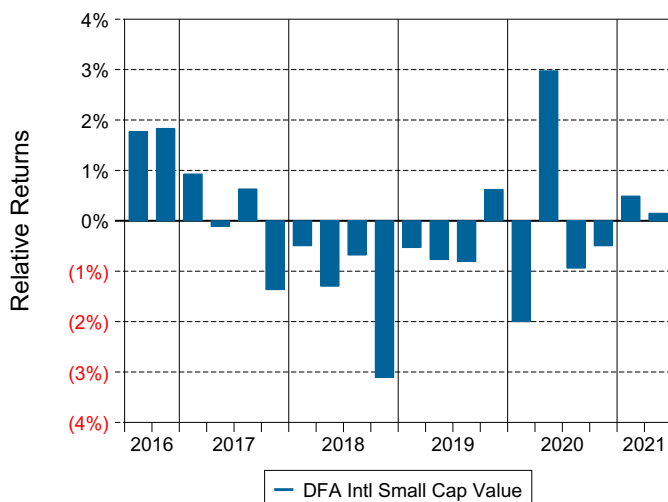
### Quarterly Asset Growth

Beginning Market Value	\$24,394,804
Net New Investment	\$-6,000,000
Investment Gains/(Losses)	\$1,103,682
Ending Market Value	\$19,498,486

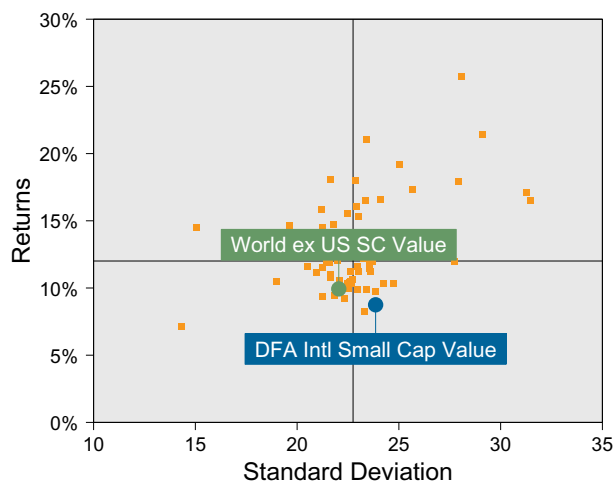
### Performance vs Callan International Small Cap Mut Funds (Net)



### Relative Return vs World ex US SC Value



### Callan International Small Cap Mut Funds (Net) Annualized Five Year Risk vs Return



## LSV Intl Value Period Ended June 30, 2021

### Investment Philosophy

The objective of LSV Asset Management's International Large Cap Value strategy is to outperform the MSCI EAFE Index by at least 250 basis points (gross of fees) per annum over an annualized 3-5 year period with a tracking error of approximately 5-6%. Their stock selection process is a quantitative approach that ranks a broad universe of stocks on a combination of value and momentum factors and seeks to invest approximately 150 stocks in the most attractive securities possible within strict risk parameters to control the portfolio's tracking error relative to the benchmark. The resulting portfolio is broadly diversified across industry groups and fully invested. LSV weights countries at a neutral weight relative to the benchmark country weights. 50% of the portfolio is US dollar hedged. **\*MSCI EAFE through 9/30/2000; 50% Hedged EAFE through 3/31/2011 and MSCI EAFE again thereafter.**

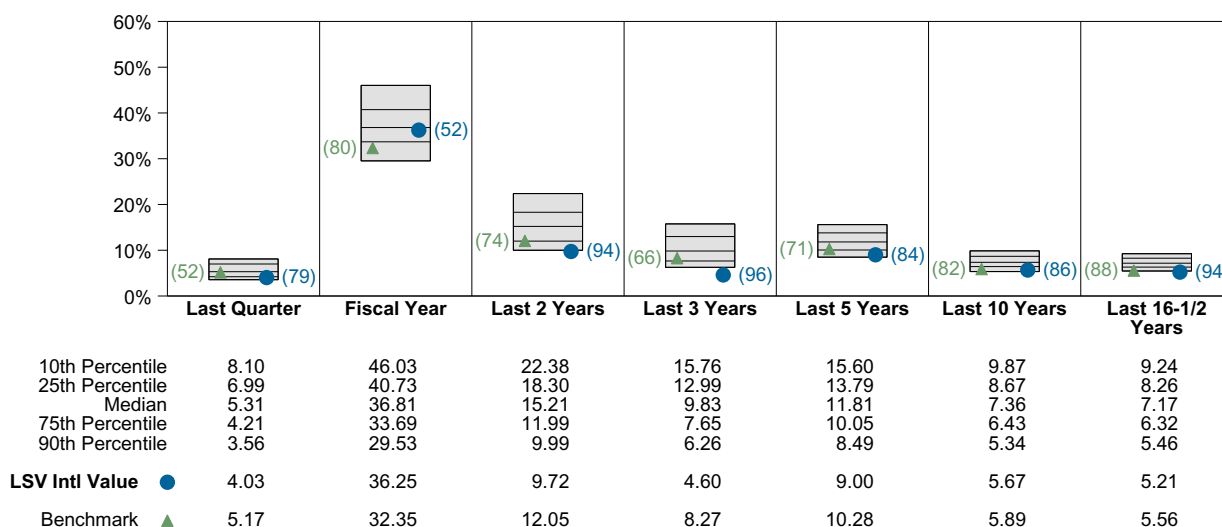
### Quarterly Summary and Highlights

- LSV Intl Value's portfolio posted a 4.03% return for the quarter placing it in the 79 percentile of the Callan Non-US Equity group for the quarter and in the 52 percentile for the last year.
- LSV Intl Value's portfolio underperformed the Benchmark by 1.15% for the quarter and outperformed the Benchmark for the year by 3.90%.

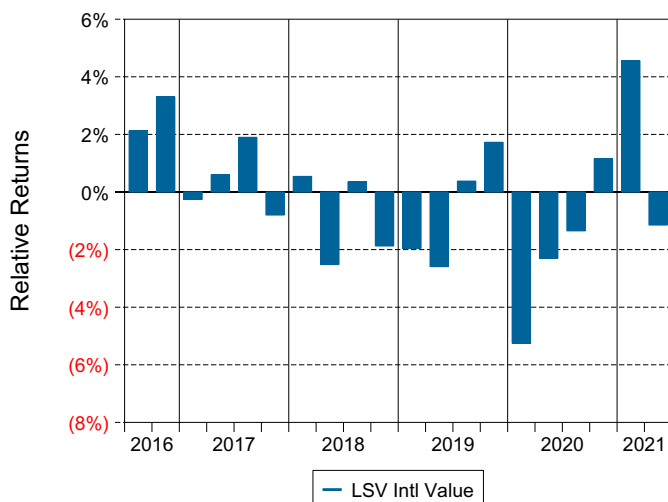
### Quarterly Asset Growth

Beginning Market Value	\$71,845,565
Net New Investment	\$-68,140
Investment Gains/(Losses)	\$2,890,841
Ending Market Value	\$74,668,266

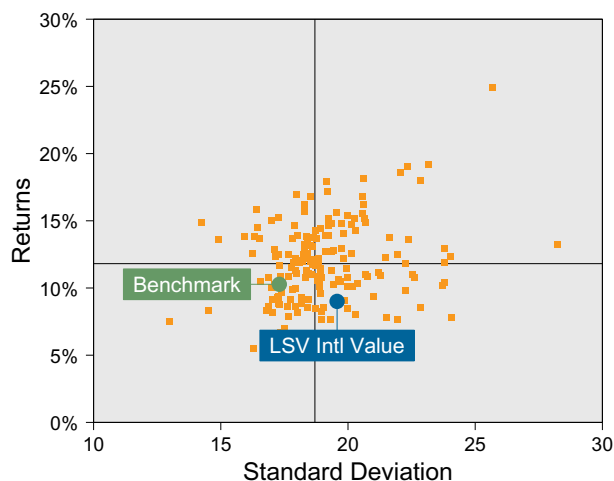
### Performance vs Callan Non-US Equity (Gross)



### Relative Return vs Benchmark



### Callan Non-US Equity (Gross) Annualized Five Year Risk vs Return



# Vanguard Intl Explorer Fund

## Period Ended June 30, 2021

### Investment Philosophy

Vanguard International Explorer Fund invests primarily in the equity securities of small-capitalization companies located outside the United States that the advisor believes offer the potential for long-term capital appreciation. The advisor considers, among other things, whether a company is likely to have above-average earnings growth, whether the company's securities are attractively valued, and whether the company has any proprietary advantages.

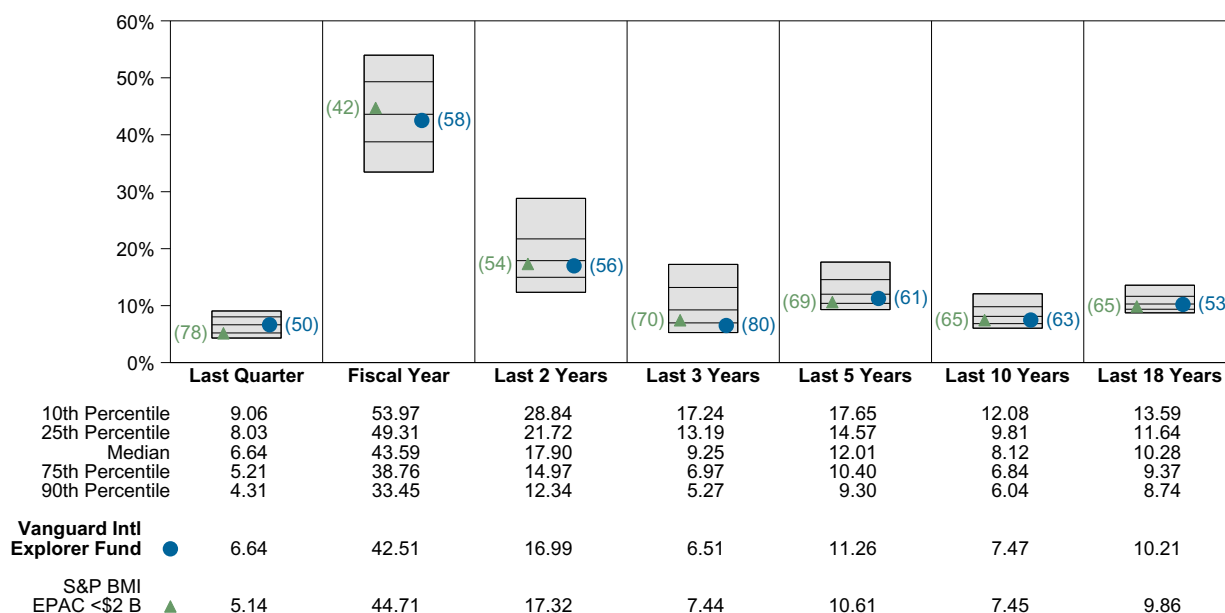
### Quarterly Summary and Highlights

- Vanguard Intl Explorer Fund's portfolio posted a 6.64% return for the quarter placing it in the 50 percentile of the Callan International Small Cap Mut Funds group for the quarter and in the 58 percentile for the last year.
- Vanguard Intl Explorer Fund's portfolio outperformed the S&P BMI EPAC <\$2 B by 1.50% for the quarter and underperformed the S&P BMI EPAC <\$2 B for the year by 2.20%.

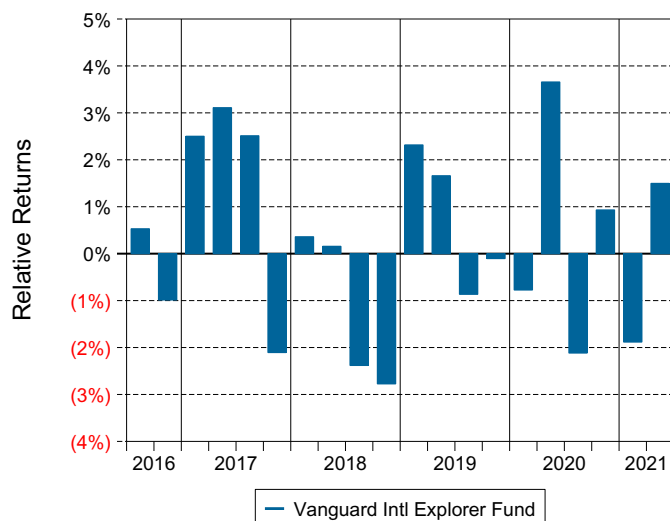
### Quarterly Asset Growth

Beginning Market Value	\$21,251,510
Net New Investment	\$-3,000,000
Investment Gains/(Losses)	\$1,407,989
Ending Market Value	\$19,659,498

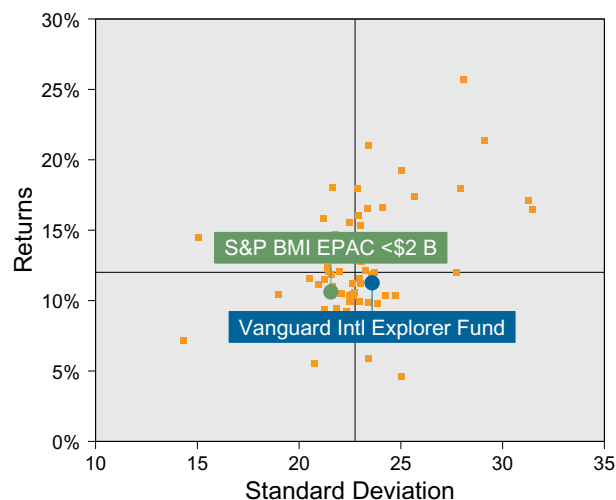
### Performance vs Callan International Small Cap Mut Funds (Net)



### Relative Return vs S&P BMI EPAC <\$2 B



### Callan International Small Cap Mut Funds (Net) Annualized Five Year Risk vs Return



## William Blair Period Ended June 30, 2021

### Investment Philosophy

One of the basic investment tenets of William Blair & Company has been its focus on quality growth companies. They believe that investing in quality growth companies will generate above average results with generally less risk than the market. This opportunity exists because they believe the market underestimates the durability and rate of growth in companies that have the following characteristics: strong management with a unique vision, competitive advantages that prolong the duration and size of earnings growth, and conservative financing. Internationally, they believe that this philosophy can be combined with strategic flexibility in managing geographic exposure, capitalization, sector emphasis, and relative growth and valuation at the portfolio level in order to provide an appropriate degree of adaptability to cyclical conditions.

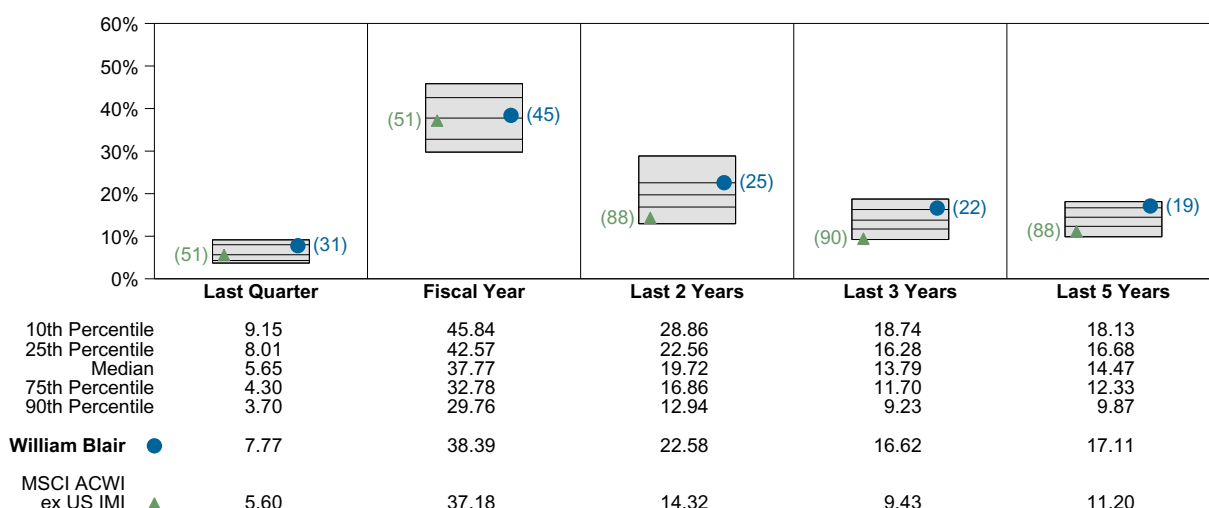
### Quarterly Summary and Highlights

- William Blair's portfolio posted a 7.77% return for the quarter placing it in the 31 percentile of the Callan Non-US All Country Growth Equity group for the quarter and in the 45 percentile for the last year.
- William Blair's portfolio outperformed the MSCI ACWI ex US IMI by 2.18% for the quarter and outperformed the MSCI ACWI ex US IMI for the year by 1.22%.

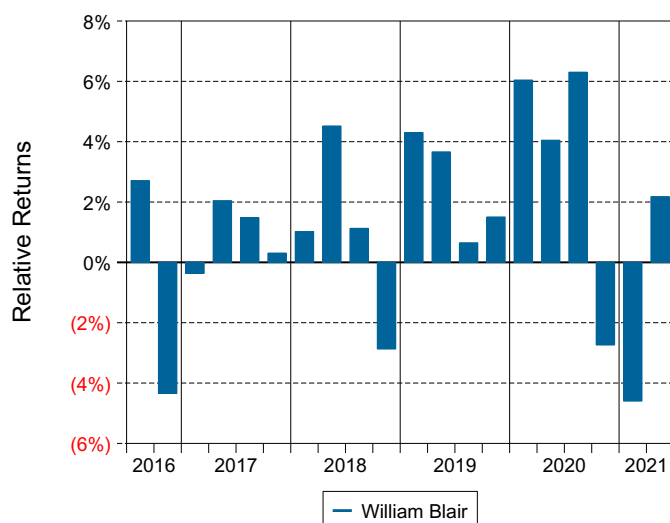
### Quarterly Asset Growth

Beginning Market Value	\$76,769,036
Net New Investment	\$-3,967,263
Investment Gains/(Losses)	\$6,000,133
Ending Market Value	\$78,801,905

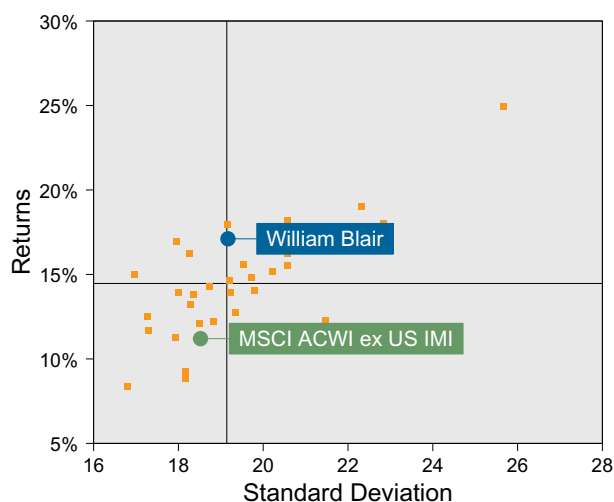
### Performance vs Callan Non-US All Country Growth Equity (Gross)



### Relative Return vs MSCI ACWI ex US IMI



### Callan Non-US All Country Growth Equity (Gross) Annualized Five Year Risk vs Return





## Domestic Fixed Income Period Ended June 30, 2021

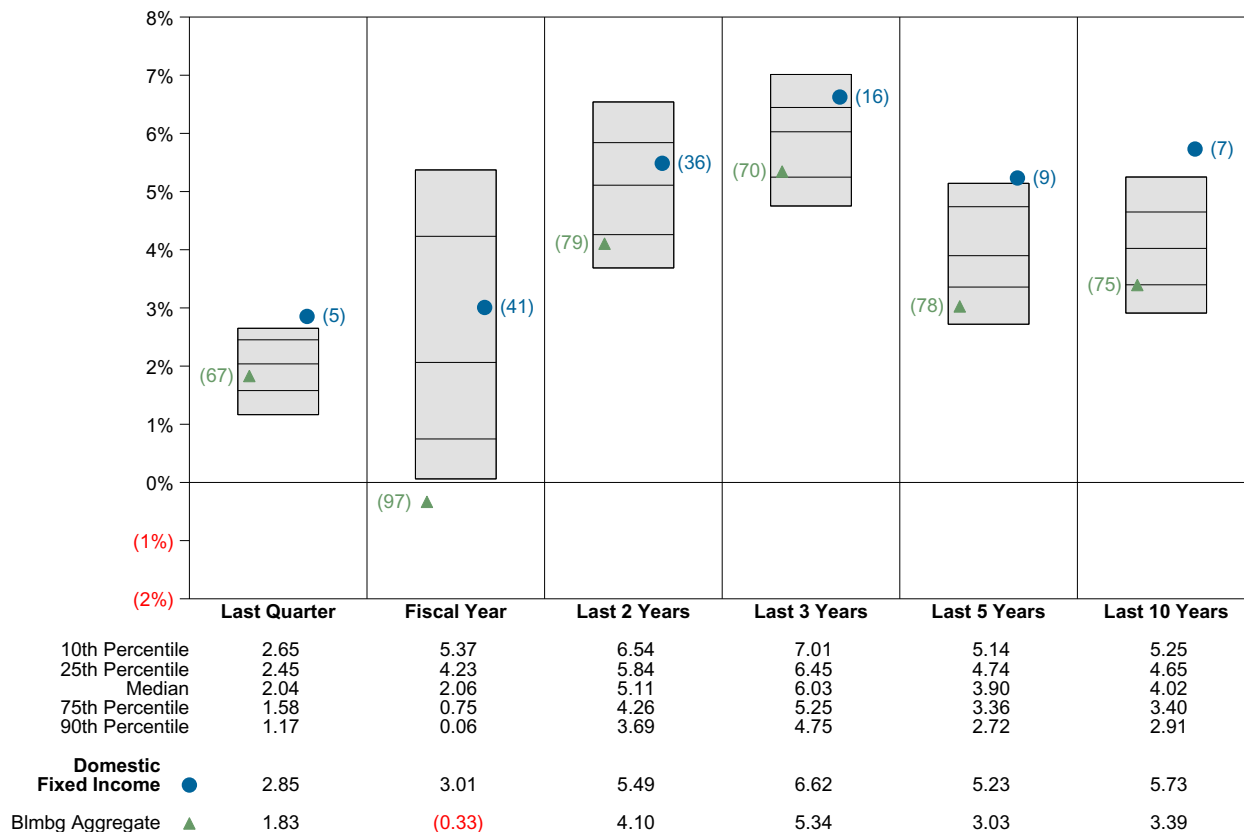
### Quarterly Summary and Highlights

- Domestic Fixed Income's portfolio posted a 2.85% return for the quarter placing it in the 5 percentile of the Public Fund - Domestic Fixed group for the quarter and in the 41 percentile for the last year.
- Domestic Fixed Income's portfolio outperformed the Blmbg Aggregate by 1.02% for the quarter and outperformed the Blmbg Aggregate for the year by 3.34%.

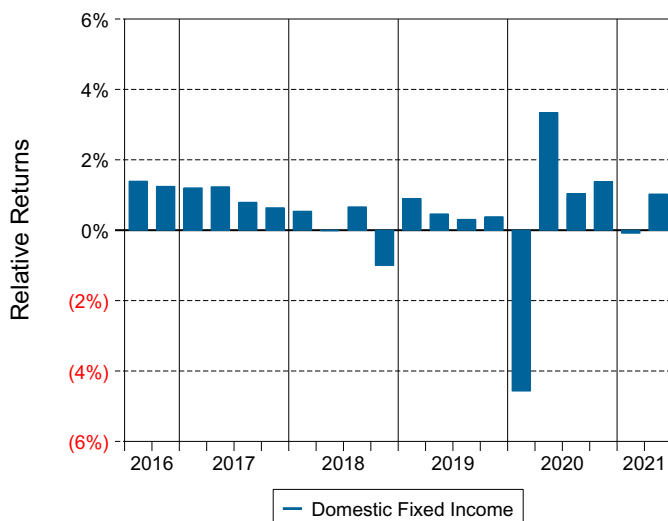
### Quarterly Asset Growth

Beginning Market Value	\$1,381,538,183
Net New Investment	\$20,717,940
Investment Gains/(Losses)	\$39,882,749
Ending Market Value	\$1,442,138,872

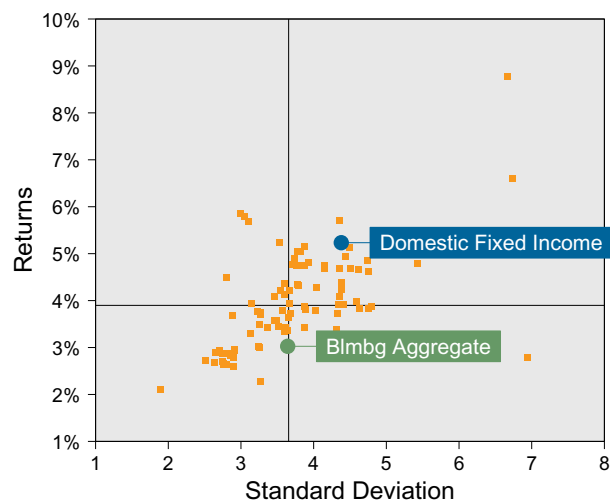
### Performance vs Public Fund - Domestic Fixed (Gross)



### Relative Return vs Blmbg Aggregate



### Public Fund - Domestic Fixed (Gross) Annualized Five Year Risk vs Return



## Declaration Total Return Period Ended June 30, 2021

### Investment Philosophy

The Fund's portfolio holdings consist primarily of RMBS issued by private sector companies (Non-Agency RMBS) and government agencies (Agency MBS) and CMBS issued by private sector companies. Agency MBS includes securities issued by the Federal National Mortgage Association (Fannie Mae), the Federal Home Loan Mortgage Corporation (Freddie Mac) and the Government National Mortgage Association (Ginnie Mae). Portfolio holdings may range from short tenure senior classes to stressed issues or subordinated securities with substantial risk of non-payment and correspondingly higher yields. Smaller portfolio allocations may include consumer asset-backed securities (ABS), or other structured credit securities and corporate bonds. As a diversification strategy and a potential hedge to credit risk, the Fund may invest in securities which tend to benefit from slow mortgage prepayments and economic growth, such as interest only (IO) MBS.

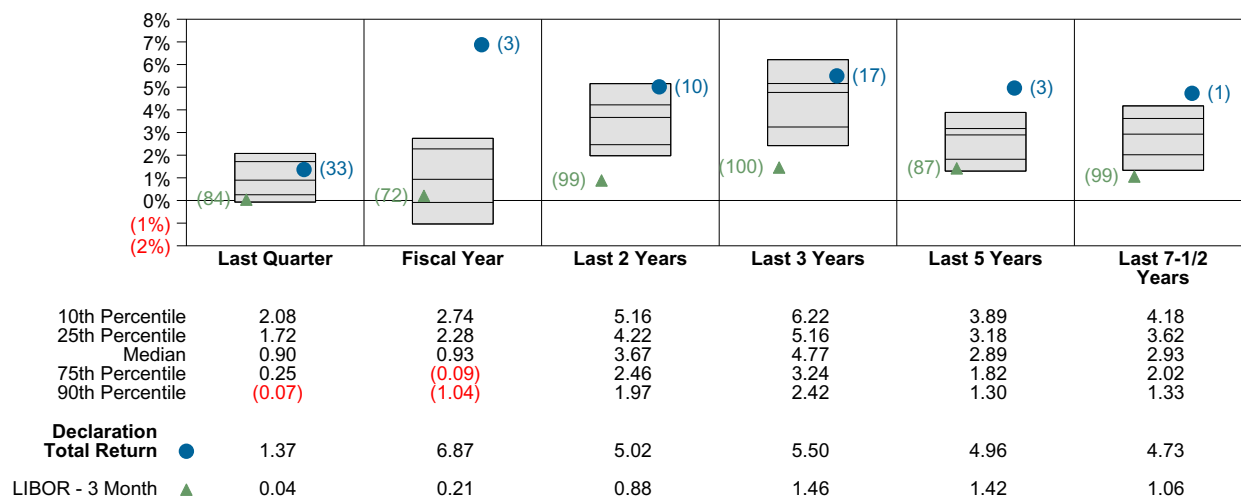
### Quarterly Summary and Highlights

- Declaration Total Return's portfolio posted a 1.37% return for the quarter placing it in the 33 percentile of the Callan Intermediate Fixed Inc Mut Funds group for the quarter and in the 3 percentile for the last year.
- Declaration Total Return's portfolio outperformed the LIBOR - 3 Month by 1.33% for the quarter and outperformed the LIBOR - 3 Month for the year by 6.67%.

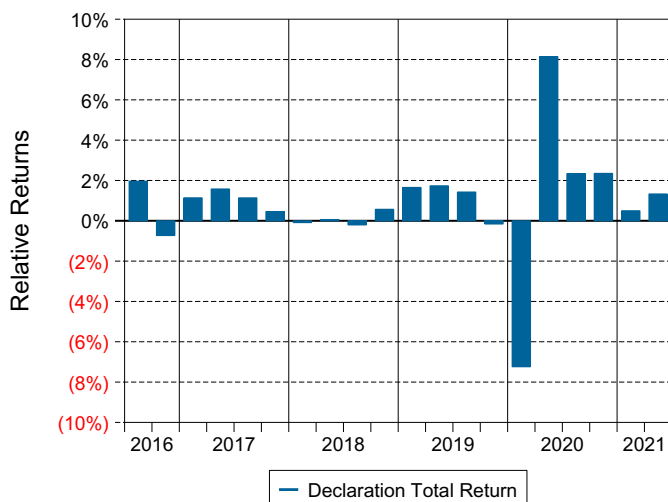
### Quarterly Asset Growth

Beginning Market Value	\$114,591,373
Net New Investment	\$-71,011
Investment Gains/(Losses)	\$1,564,911
Ending Market Value	\$116,085,273

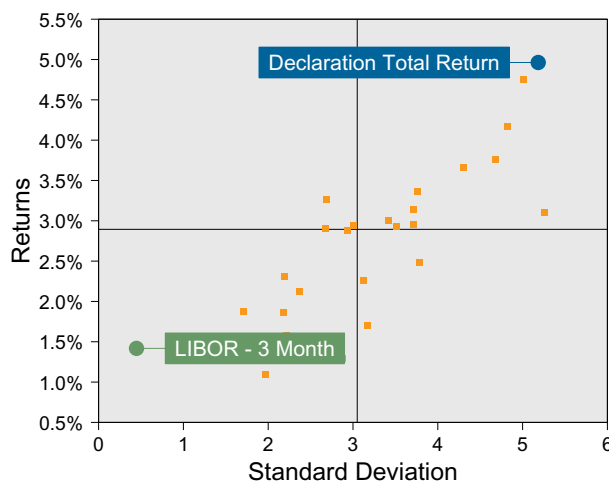
### Performance vs Callan Intermediate Fixed Inc Mut Funds (Net)



### Relative Return vs LIBOR - 3 Month



### Callan Intermediate Fixed Inc Mut Funds (Net) Annualized Five Year Risk vs Return



## PIMCO Core Plus Constrained Period Ended June 30, 2021

### Investment Philosophy

PIMCO's investment process utilizes both "top-down" and "bottom-up" strategies. Top-down strategies focus on duration, yield curve positioning, volatility, and sector rotation. These strategies are deployed from a macro view of the portfolio driven by their secular outlook of the forces likely to influence the economy and financial markets over the next three to five years and their cyclical views of two- to four-quarter trends. Implementation in portfolios is effected by selecting securities that achieve the designated objectives. Bottom-up strategies drive their security selection process and facilitate the identification and analysis of undervalued securities.

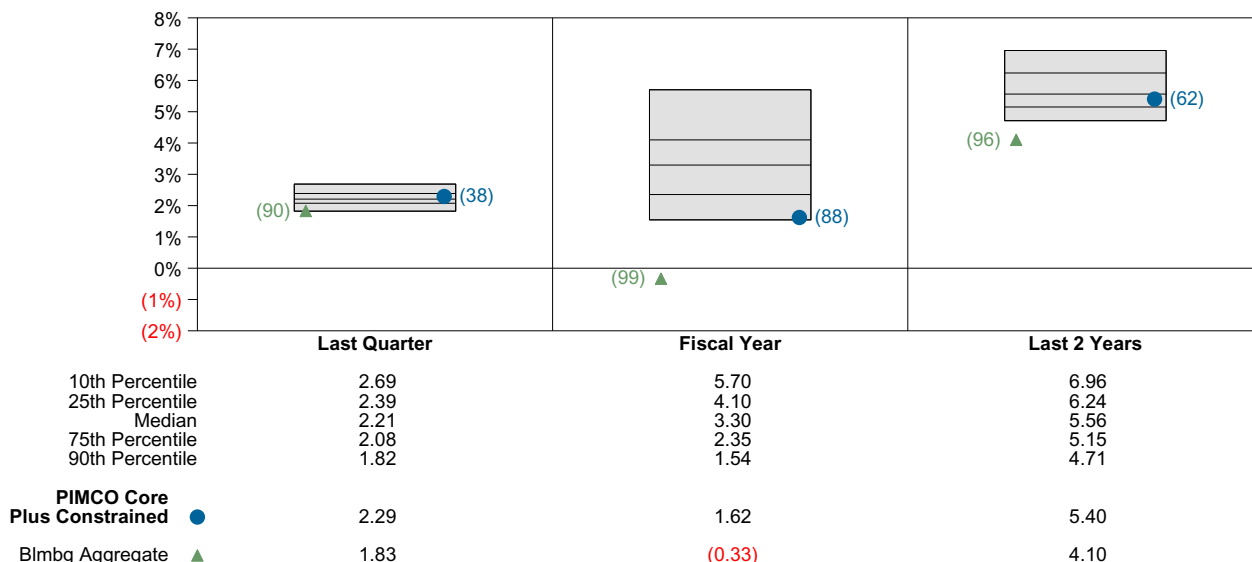
### Quarterly Summary and Highlights

- PIMCO Core Plus Constrained's portfolio posted a 2.29% return for the quarter placing it in the 38 percentile of the Callan Core Plus Fixed Income group for the quarter and in the 88 percentile for the last year.
- PIMCO Core Plus Constrained's portfolio outperformed the Blmbg Aggregate by 0.46% for the quarter and outperformed the Blmbg Aggregate for the year by 1.95%.

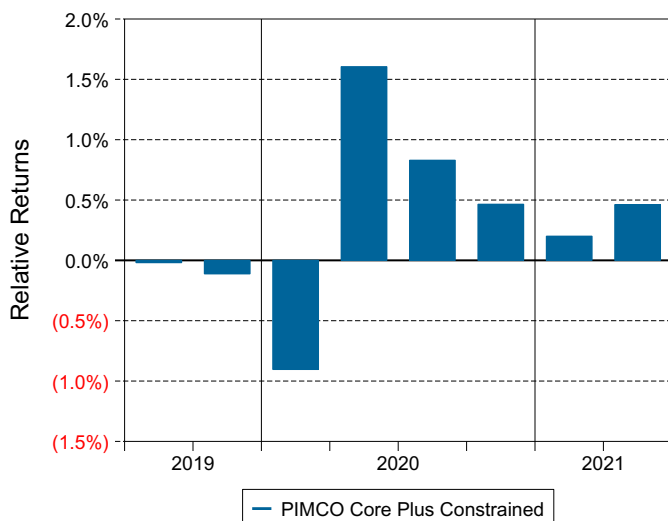
### Quarterly Asset Growth

Beginning Market Value	\$193,840,751
Net New Investment	\$-58,564
Investment Gains/(Losses)	\$4,441,348
Ending Market Value	\$198,223,535

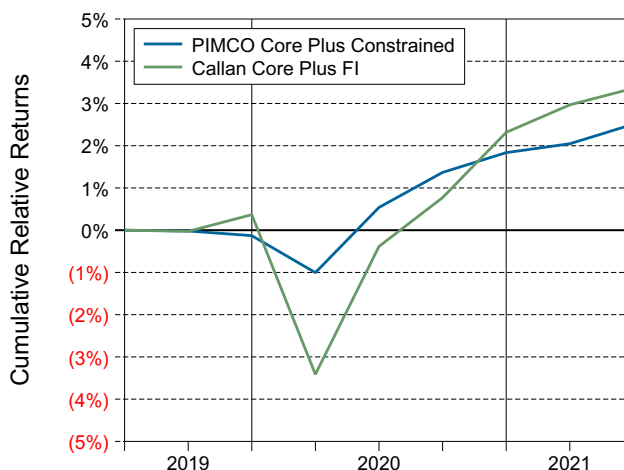
### Performance vs Callan Core Plus Fixed Income (Gross)



### Relative Return vs Blmbg Aggregate



### Cumulative Returns vs Blmbg Aggregate





## PIMCO DiSCO II

### Period Ended June 30, 2021

#### Investment Philosophy

The PIMCO Distressed Senior Credit Opportunities Fund is an opportunistic private-equity style Fund which seeks to provide investors enhanced returns principally through long-biased investments in undervalued senior and super senior structured credit securities that are expected to produce attractive levels of current income and that may also appreciate in value over the long term. The fund will look to capitalize on forced sales by liquidity constrained investors.

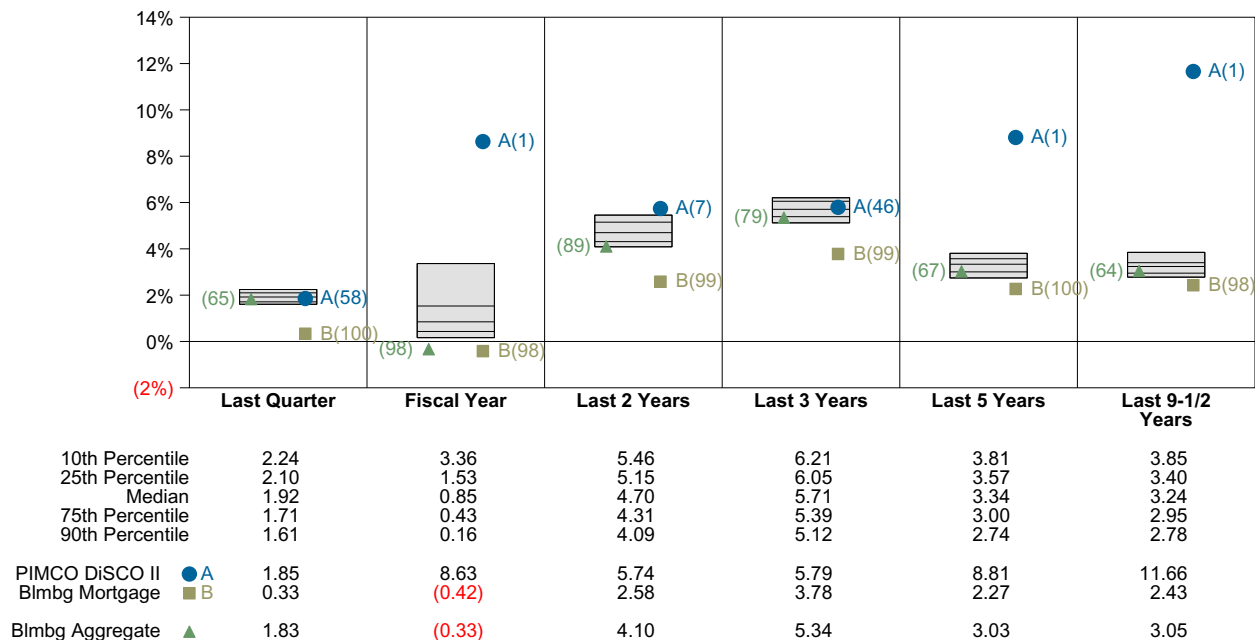
#### Quarterly Summary and Highlights

- PIMCO DiSCO II's portfolio posted a 1.85% return for the quarter placing it in the 58 percentile of the Callan Core Bond Mutual Funds group for the quarter and in the 1 percentile for the last year.
- PIMCO DiSCO II's portfolio outperformed the Blmbg Aggregate by 0.03% for the quarter and outperformed the Blmbg Aggregate for the year by 8.96%.

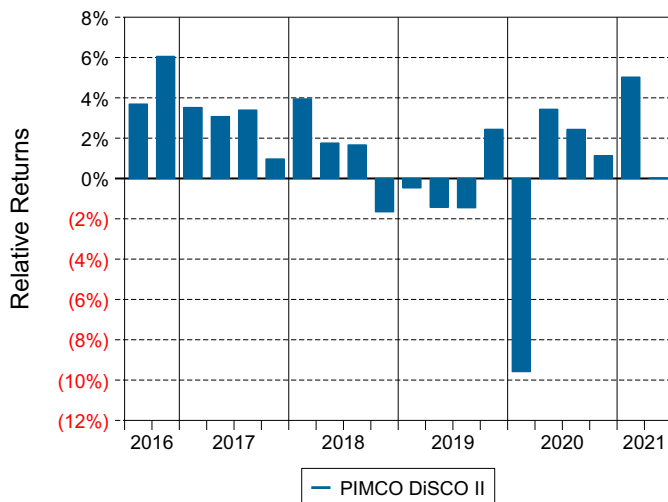
#### Quarterly Asset Growth

Beginning Market Value	\$47,370,975
Net New Investment	\$-7,105,646
Investment Gains/(Losses)	\$765,738
Ending Market Value	\$41,031,067

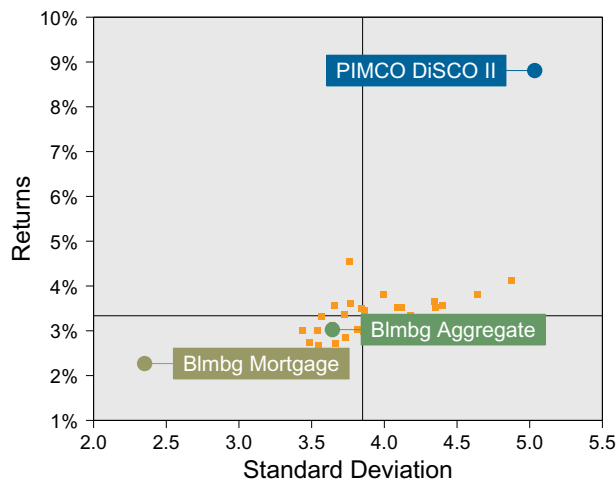
#### Performance vs Callan Core Bond Mutual Funds (Net)



#### Relative Return vs Blmbg Aggregate



#### Callan Core Bond Mutual Funds (Net) Annualized Five Year Risk vs Return



## PIMCO Bravo II Fund Period Ended June 30, 2021

### Investment Philosophy

The BRAVO II Fund is a private equity style fund targeting an annualized IRR of 15-20% and multiple of 1.8-2x, net of fees and carried interest with an initial 5-year term. The fund will seek to capitalize on non-economic asset sale decisions by global financial institutions. The fund will have the flexibility to acquire attractively discounted, less liquid loans, structured credit and other assets tied to residential or commercial real estate markets in the U.S. and Europe.

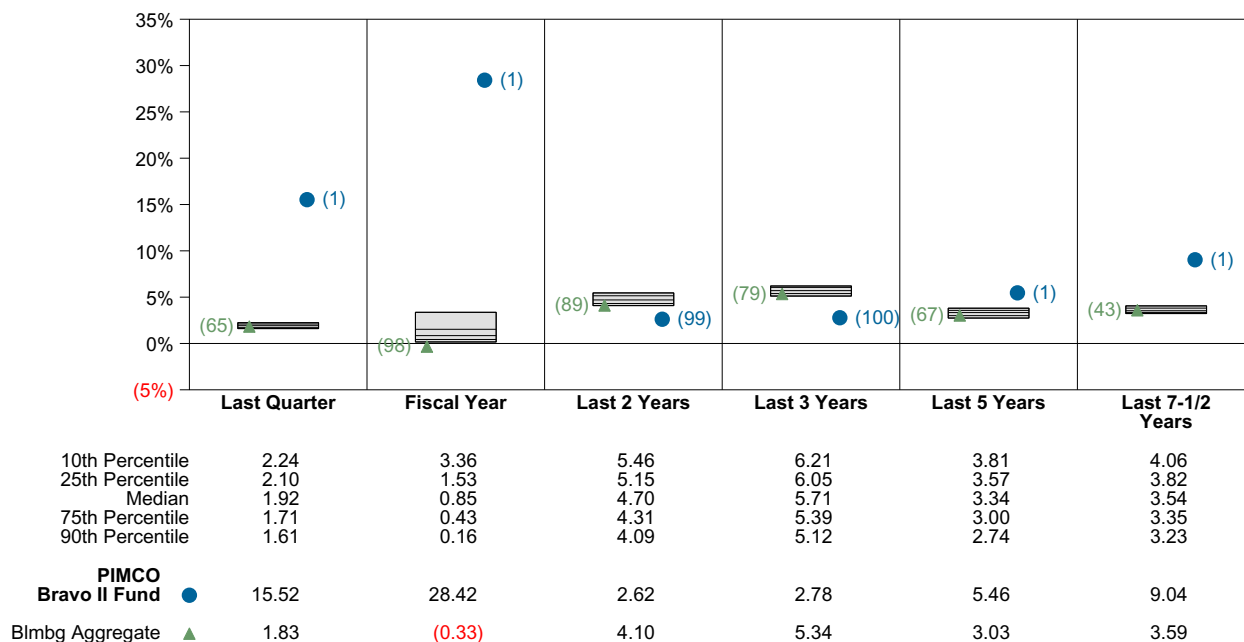
### Quarterly Summary and Highlights

- PIMCO Bravo II Fund's portfolio posted a 15.52% return for the quarter placing it in the 1 percentile of the Callan Core Bond Mutual Funds group for the quarter and in the 1 percentile for the last year.
- PIMCO Bravo II Fund's portfolio outperformed the Blmbg Aggregate by 13.69% for the quarter and outperformed the Blmbg Aggregate for the year by 28.75%.

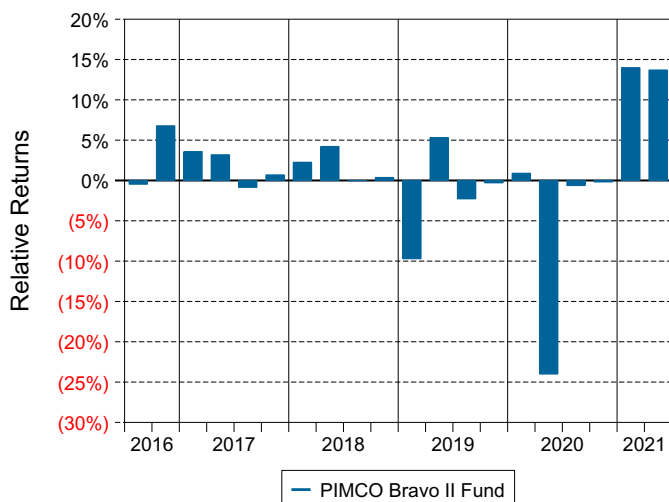
### Quarterly Asset Growth

Beginning Market Value	\$7,085,687
Net New Investment	\$0
Investment Gains/(Losses)	\$1,099,886
Ending Market Value	\$8,185,573

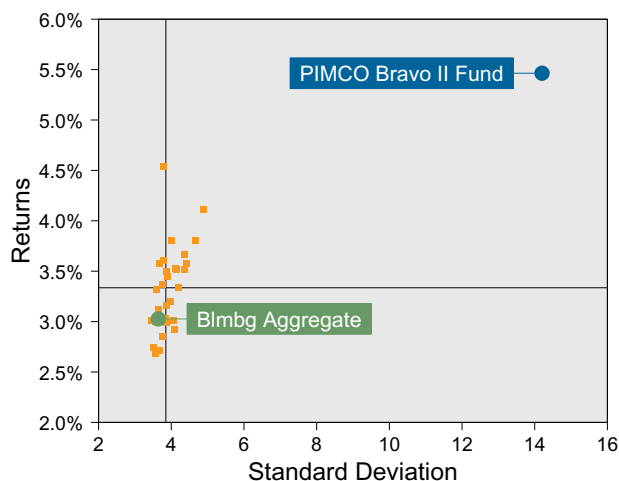
### Performance vs Callan Core Bond Mutual Funds (Net)



### Relative Return vs Blmbg Aggregate



### Callan Core Bond Mutual Funds (Net) Annualized Five Year Risk vs Return



## Prudential Core Plus Period Ended June 30, 2021

### Investment Philosophy

PGIM Fixed Income's Core Plus Strategy is an actively-managed strategy that seeks +150 bps over the Bloomberg Barclays U.S. Aggregate Bond Index or similar benchmark annualized over a market cycle (three to five years.) The Strategy seeks about half of its excess return from active sector allocation and up to one-third each from subsector/security selection and duration/yield curve/currencies, depending on market opportunities.

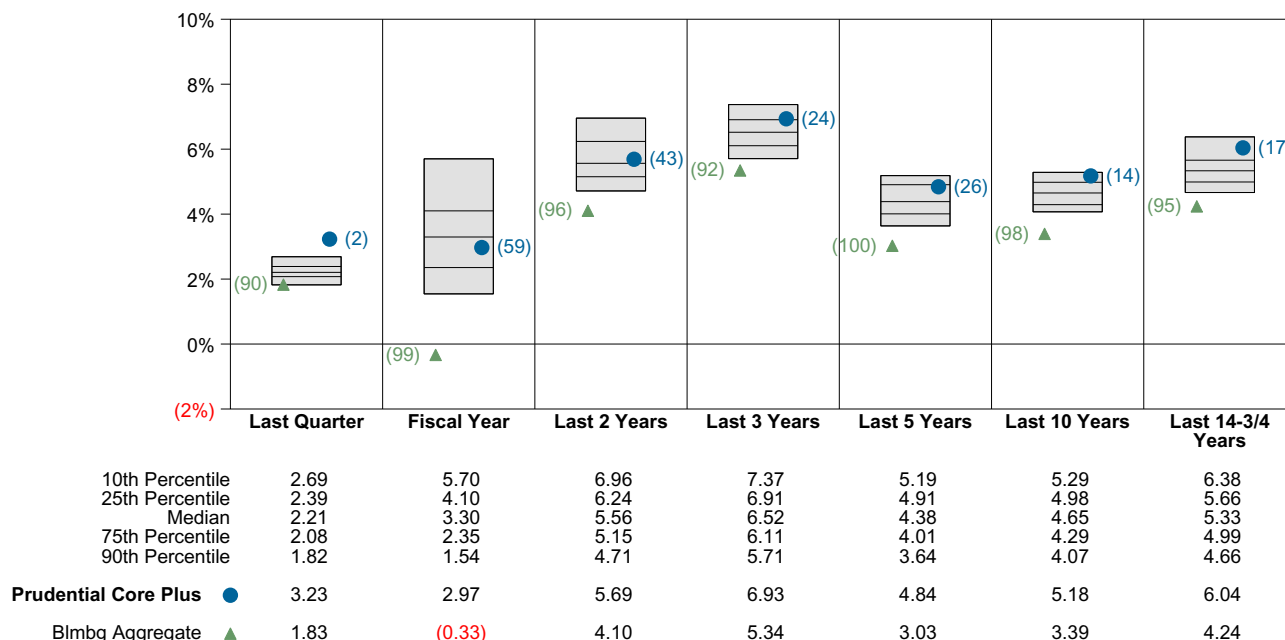
### Quarterly Summary and Highlights

- Prudential Core Plus's portfolio posted a 3.23% return for the quarter placing it in the 2 percentile of the Callan Core Plus Fixed Income group for the quarter and in the 59 percentile for the last year.
- Prudential Core Plus's portfolio outperformed the Blmbg Aggregate by 1.40% for the quarter and outperformed the Blmbg Aggregate for the year by 3.30%.

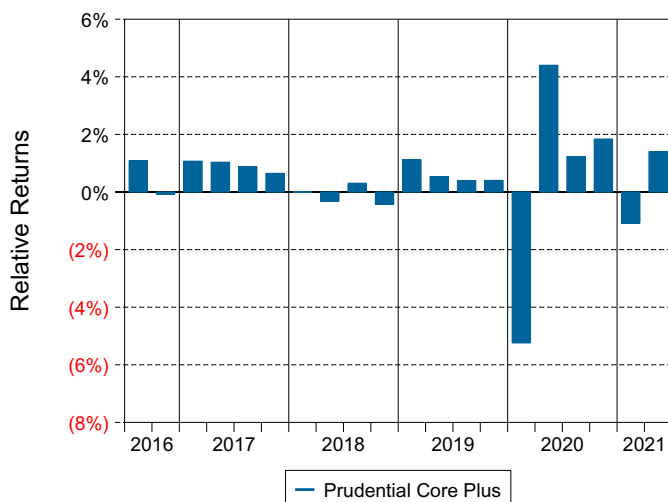
### Quarterly Asset Growth

Beginning Market Value	\$355,620,859
Net New Investment	\$14,815,857
Investment Gains/(Losses)	\$11,765,639
Ending Market Value	\$382,202,355

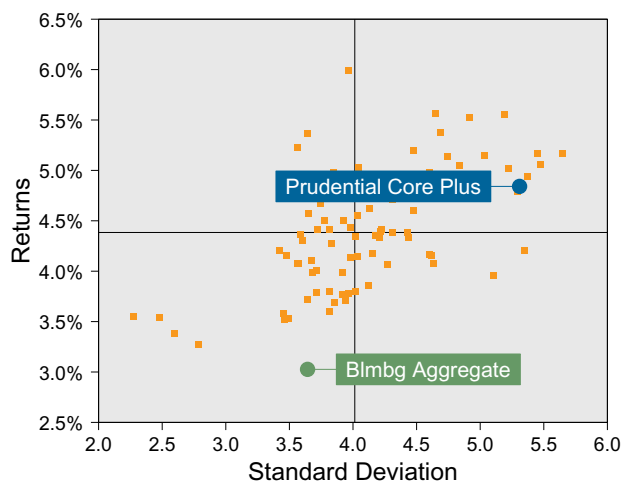
### Performance vs Callan Core Plus Fixed Income (Gross)



### Relative Return vs Blmbg Aggregate



### Callan Core Plus Fixed Income (Gross) Annualized Five Year Risk vs Return



## SSgA US Govt Cr Bd Index Period Ended June 30, 2021

### Investment Philosophy

The Fund seeks an investment return that approximates as closely as practicable, before expenses, the performance of the Barclays Capital U.S. Government/Credit Bond Index over the long term.

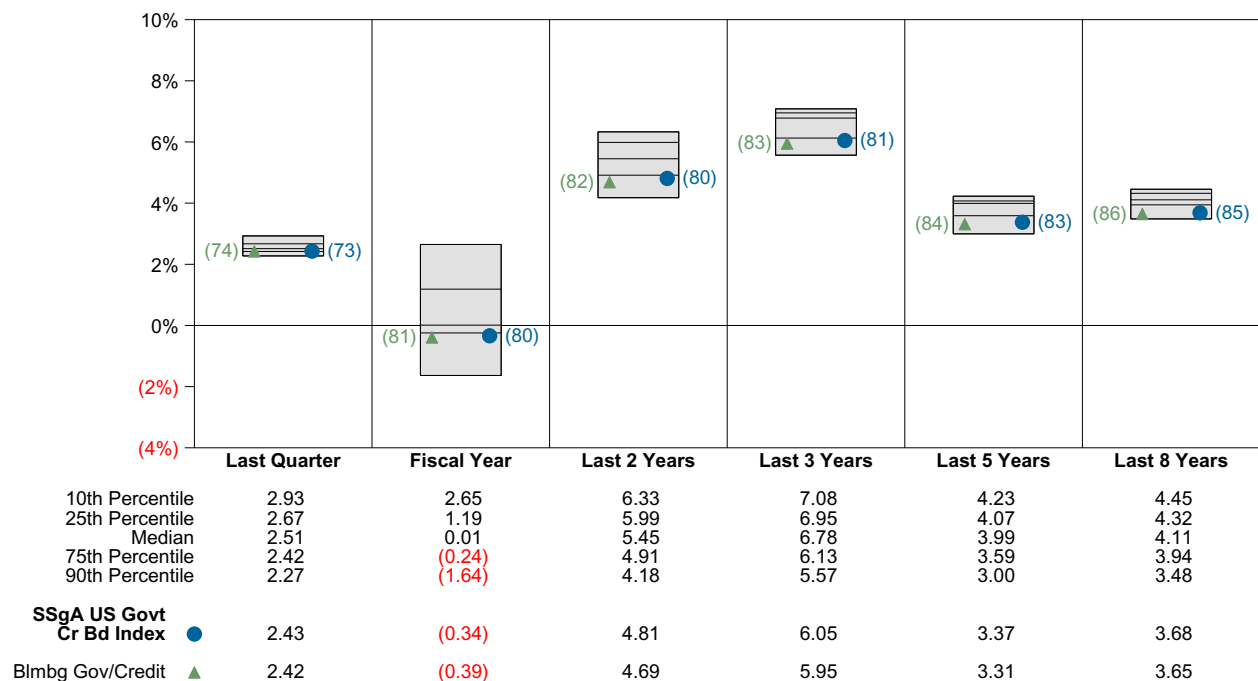
### Quarterly Summary and Highlights

- SSgA US Govt Cr Bd Index's portfolio posted a 2.43% return for the quarter placing it in the 73 percentile of the Callan Government/Credit group for the quarter and in the 80 percentile for the last year.
- SSgA US Govt Cr Bd Index's portfolio outperformed the Blmbg Gov/Credit by 0.01% for the quarter and outperformed the Blmbg Gov/Credit for the year by 0.05%.

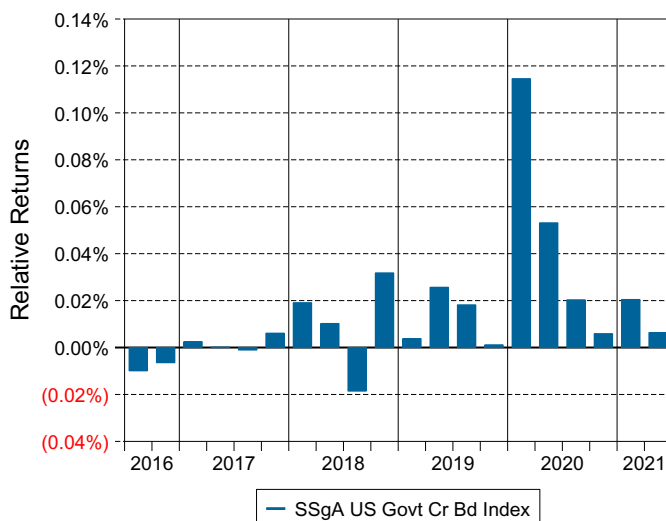
### Quarterly Asset Growth

Beginning Market Value	\$191,144,486
Net New Investment	\$4,992,856
Investment Gains/(Losses)	\$4,760,629
Ending Market Value	\$200,897,972

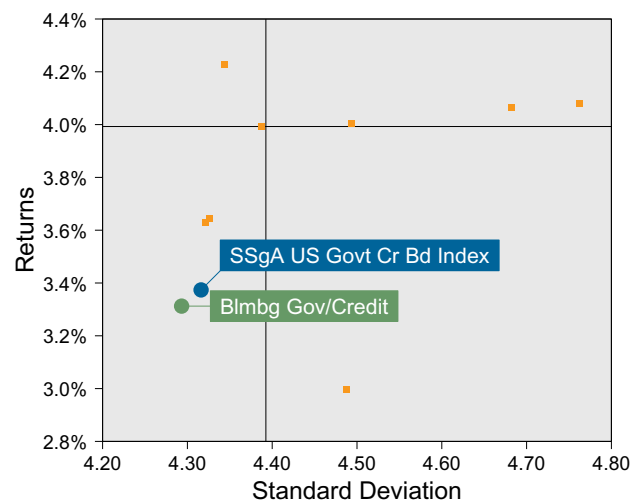
### Performance vs Callan Government/Credit (Gross)



### Relative Return vs Blmbg Gov/Credit



### Callan Government/Credit (Gross) Annualized Five Year Risk vs Return



## Wells Capital Period Ended June 30, 2021

### Investment Philosophy

The Medium Quality Credit fixed income strategy is designed to maximize total return from the high-grade corporate bond market while maintaining a strategic allocation to the BBB portion of the high yield market. The investment process for this fund starts with a "top-down" strategy. Security selection is determined by in-depth credit research, holding that in-depth knowledge of industries, companies, and their management teams can help identify credit trends that can lead to investment opportunities. Furthermore, a disciplined relative value framework is applied to help determine the optimal position to invest within an industry and within an individual issuer's capital structure.

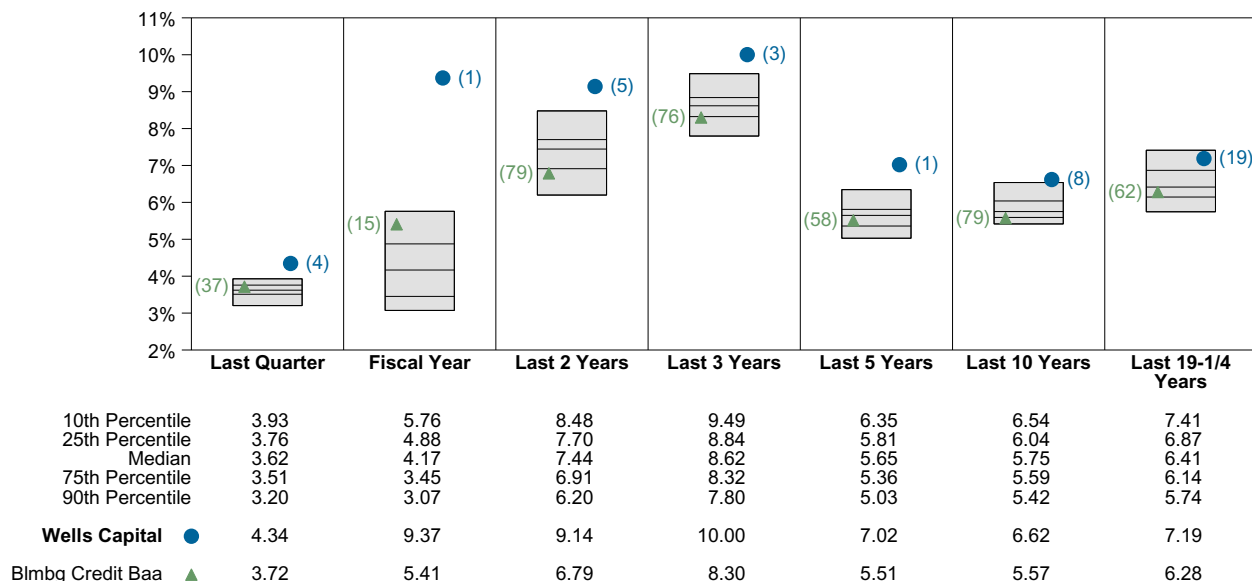
### Quarterly Summary and Highlights

- Wells Capital's portfolio posted a 4.34% return for the quarter placing it in the 4 percentile of the Callan Investment Grade Credit Fixed Inc group for the quarter and in the 1 percentile for the last year.
- Wells Capital's portfolio outperformed the Blmbg Credit Baa by 0.63% for the quarter and outperformed the Blmbg Credit Baa for the year by 3.96%.

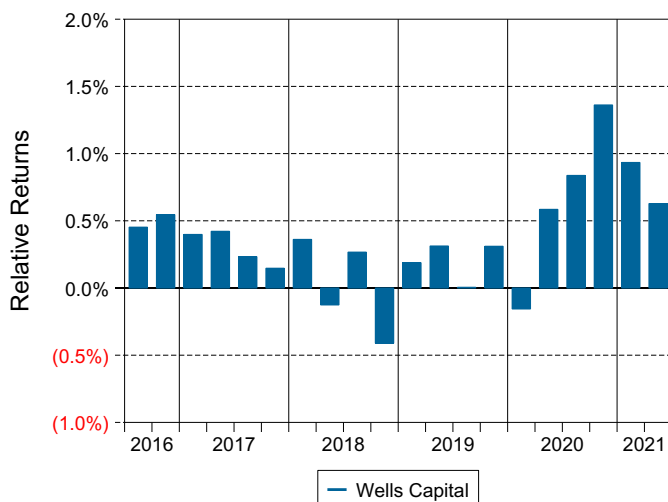
### Quarterly Asset Growth

Beginning Market Value	\$115,831,450
Net New Investment	\$-5,255,515
Investment Gains/(Losses)	\$5,023,734
Ending Market Value	\$115,599,669

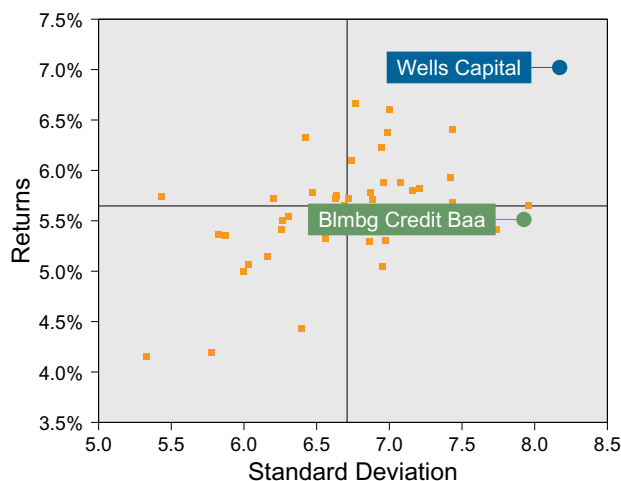
### Performance vs Callan Investment Grade Credit Fixed Inc (Gross)



### Relative Return vs Blmbg Credit Baa



### Callan Investment Grade Credit Fixed Inc (Gross) Annualized Five Year Risk vs Return



## Western Asset Management Company

### Period Ended June 30, 2021

#### Investment Philosophy

Western Asset designs this portfolio using all major fixed-income sectors with a bias towards non-Treasuries, especially corporate, mortgage-backed and asset-backed securities. Value can be added through sector rotation, issue selection, duration and term structure weighting.

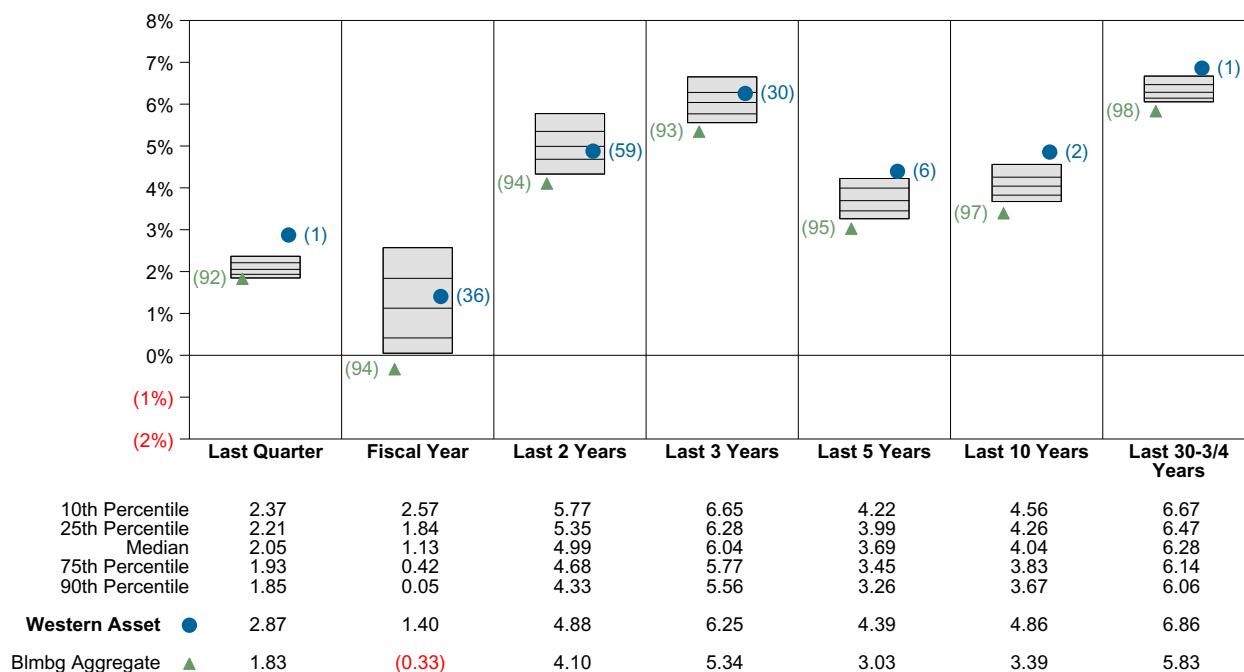
#### Quarterly Summary and Highlights

- Western Asset's portfolio posted a 2.87% return for the quarter placing it in the 1 percentile of the Callan Core Bond Fixed Income group for the quarter and in the 36 percentile for the last year.
- Western Asset's portfolio outperformed the Blmbg Aggregate by 1.04% for the quarter and outperformed the Blmbg Aggregate for the year by 1.74%.

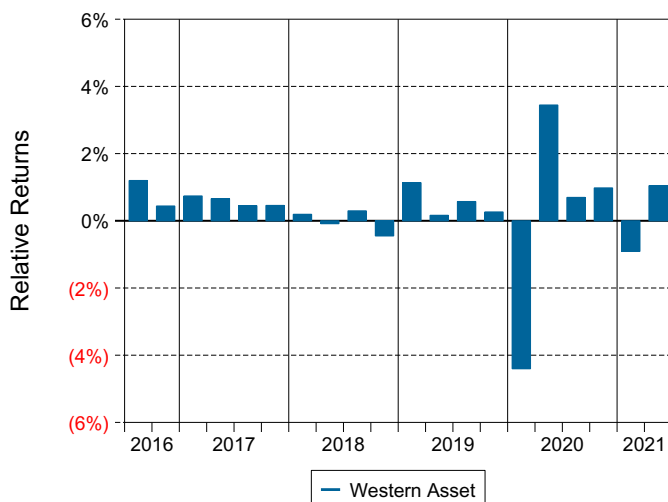
#### Quarterly Asset Growth

Beginning Market Value	\$356,052,603
Net New Investment	\$13,399,963
Investment Gains/(Losses)	\$10,460,863
Ending Market Value	\$379,913,428

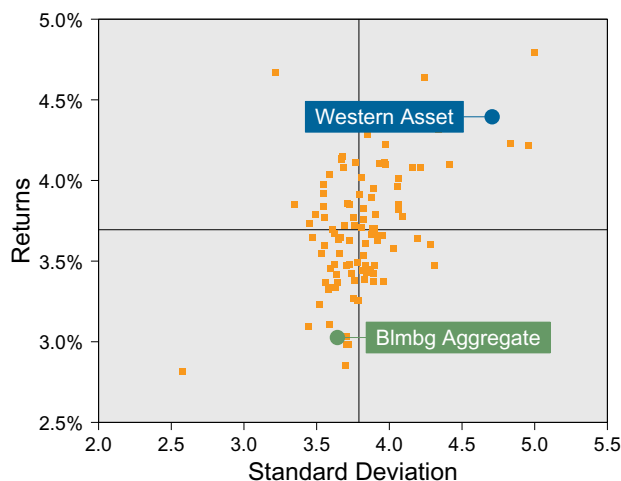
#### Performance vs Callan Core Bond Fixed Income (Gross)



#### Relative Return vs Blmbg Aggregate



#### Callan Core Bond Fixed Income (Gross) Annualized Five Year Risk vs Return





## Real Estate Period Ended June 30, 2021

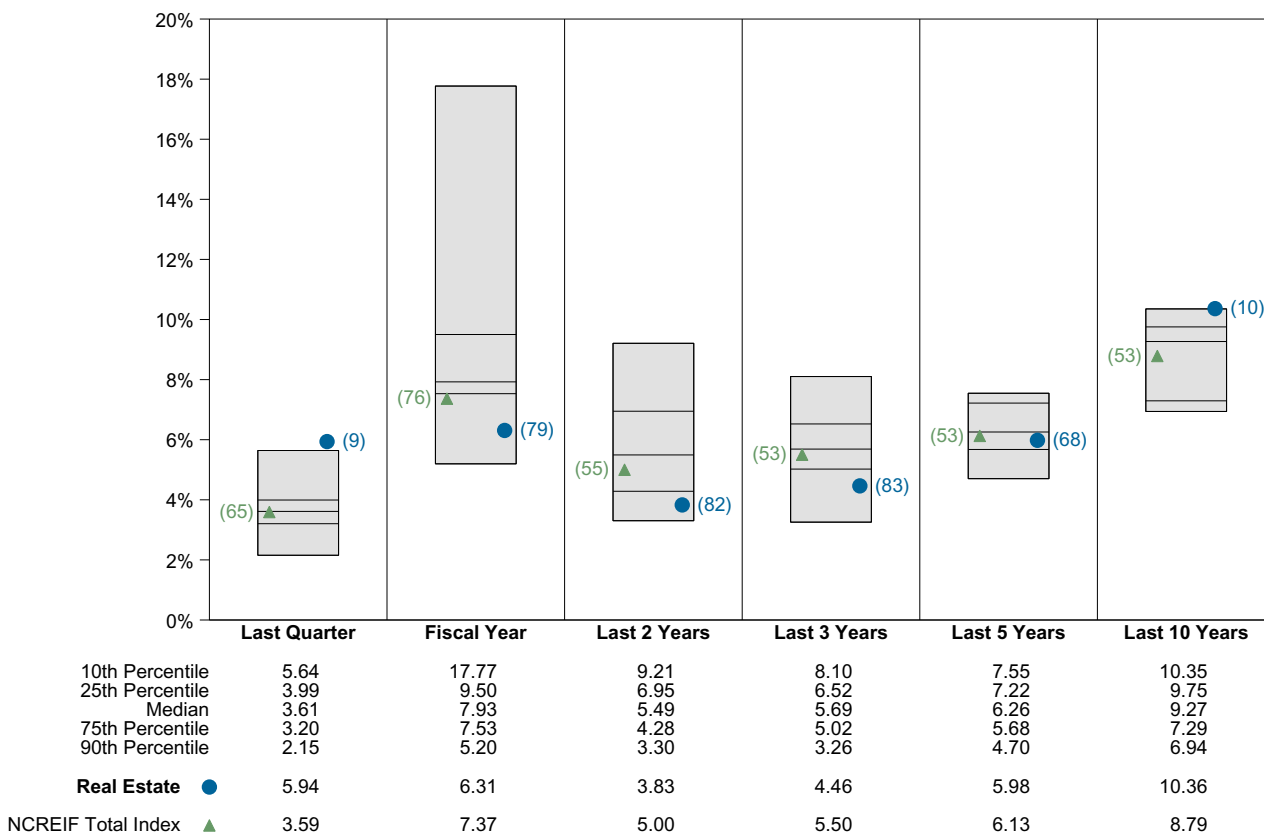
### Quarterly Summary and Highlights

- Real Estate's portfolio posted a 5.94% return for the quarter placing it in the 9 percentile of the Public Fund - Real Estate group for the quarter and in the 79 percentile for the last year.
- Real Estate's portfolio outperformed the NCREIF Total Index by 2.34% for the quarter and underperformed the NCREIF Total Index for the year by 1.06%.

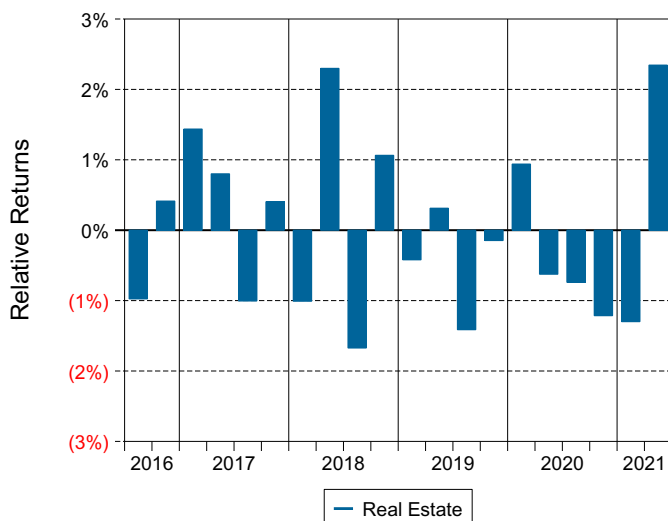
### Quarterly Asset Growth

Beginning Market Value	\$96,499,624
Net New Investment	\$-1,057,127
Investment Gains/(Losses)	\$5,684,172
Ending Market Value	\$101,126,669

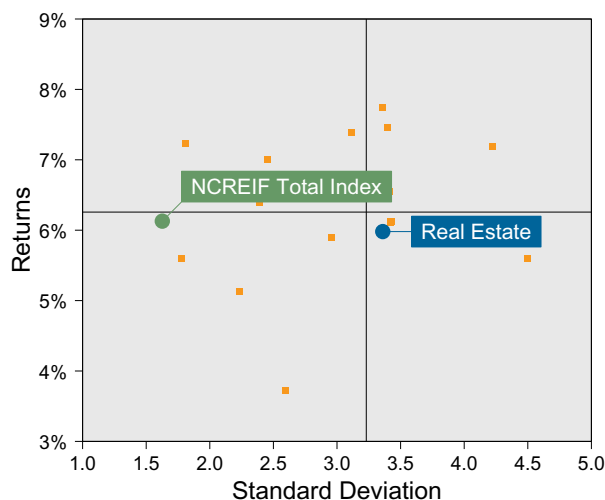
### Performance vs Public Fund - Real Estate (Gross)



### Relative Return vs NCREIF Total Index



### Public Fund - Real Estate (Gross) Annualized Five Year Risk vs Return





## Invesco Core Real Estate Period Ended June 30, 2021

### Investment Philosophy

IRE's investment philosophy is comprised of two fundamental principles: (1) maximize the predictability and consistency of investment returns and (2) minimize the risk of capital loss. This philosophy forms the cornerstone of the company's real estate investment philosophy.

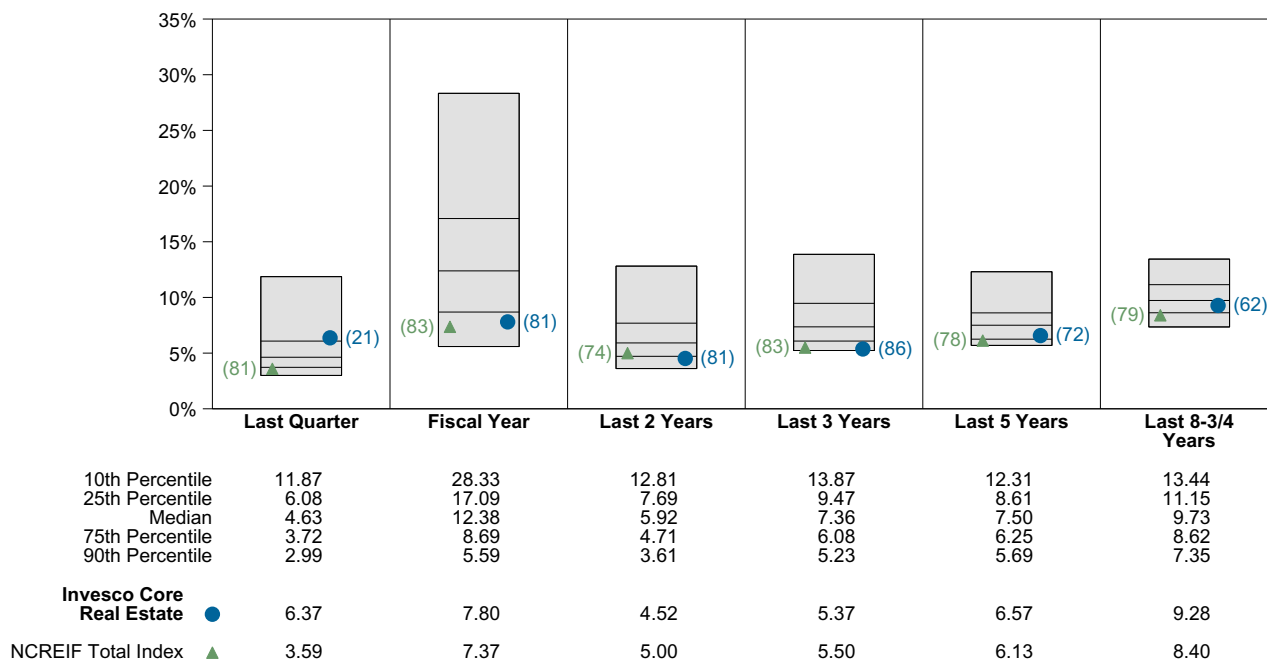
### Quarterly Summary and Highlights

- Invesco Core Real Estate's portfolio posted a 6.37% return for the quarter placing it in the 21 percentile of the Callan Total Domestic Real Estate DB group for the quarter and in the 81 percentile for the last year.
- Invesco Core Real Estate's portfolio outperformed the NCREIF Total Index by 2.78% for the quarter and outperformed the NCREIF Total Index for the year by 0.44%.

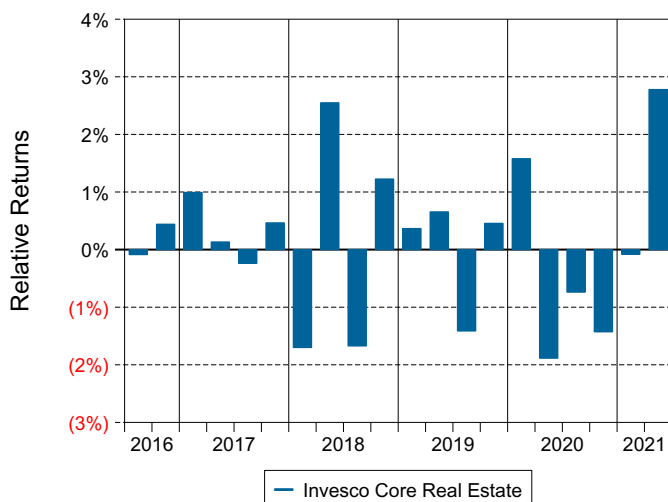
### Quarterly Asset Growth

Beginning Market Value	\$50,912,959
Net New Investment	\$-455,871
Investment Gains/(Losses)	\$3,222,649
Ending Market Value	\$53,679,736

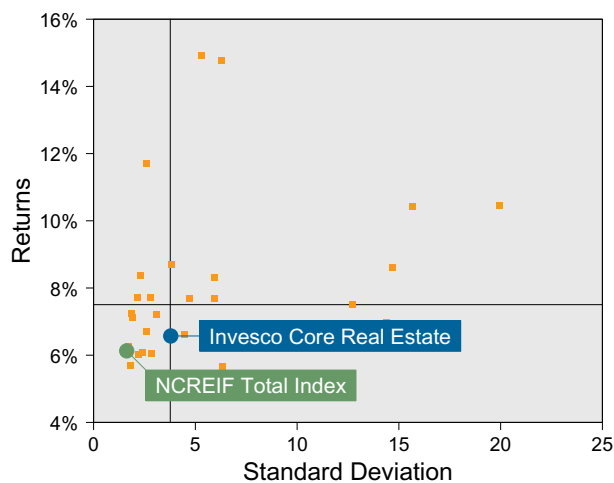
### Performance vs Callan Total Domestic Real Estate DB (Gross)



### Relative Return vs NCREIF Total Index



### Callan Total Domestic Real Estate DB (Gross) Annualized Five Year Risk vs Return



## JP Morgan Real Estate Period Ended June 30, 2021

### Investment Philosophy

The J.P. Morgan U.S. Real Estate Income and Growth Fund seeks to construct and opportunistically manage a portfolio of core direct real estate investments, complemented by other real estate and real estate-related assets. The Fund pursues a broadly diversified absolute-return strategy and pursues all property investments on an opportunistic basis. The majority of the Fund's investments will be in direct core properties in the office, industrial, retail and residential sectors.

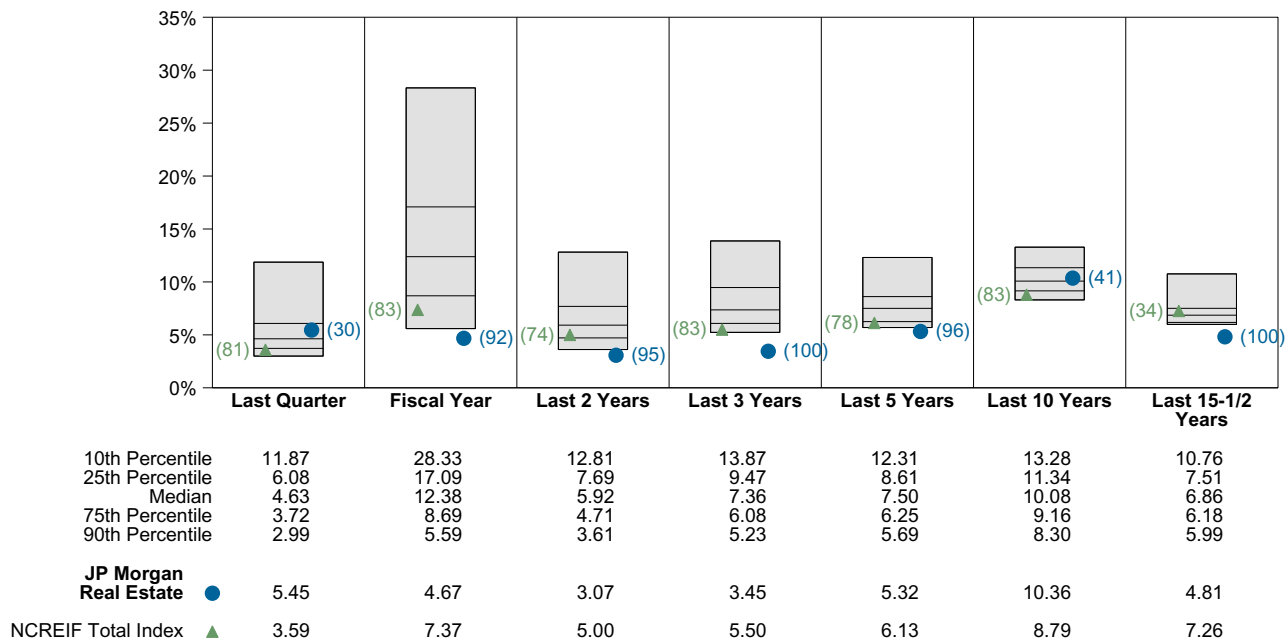
### Quarterly Summary and Highlights

- JP Morgan Real Estate's portfolio posted a 5.45% return for the quarter placing it in the 30 percentile of the Callan Total Domestic Real Estate DB group for the quarter and in the 92 percentile for the last year.
- JP Morgan Real Estate's portfolio outperformed the NCREIF Total Index by 1.86% for the quarter and underperformed the NCREIF Total Index for the year by 2.69%.

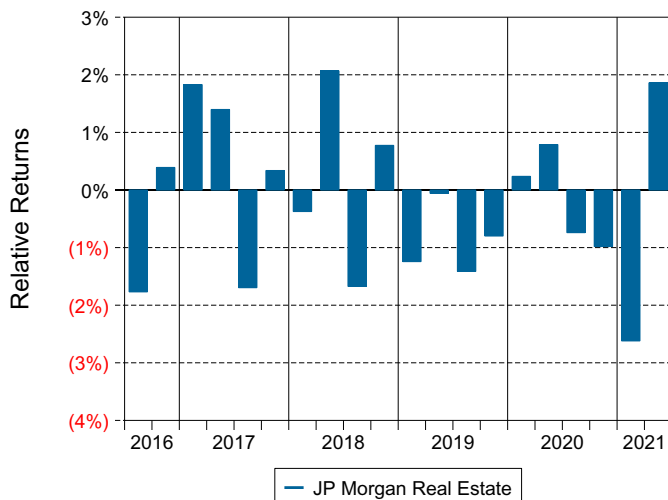
### Quarterly Asset Growth

Beginning Market Value	\$45,586,665
Net New Investment	\$-601,255
Investment Gains/(Losses)	\$2,461,523
Ending Market Value	\$47,446,933

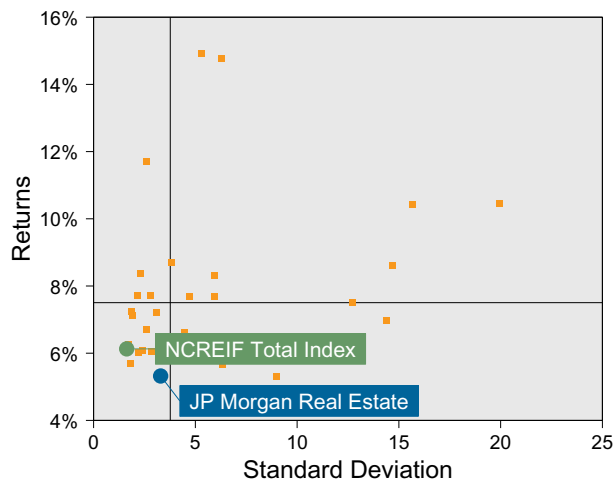
### Performance vs Callan Total Domestic Real Estate DB (Gross)



### Relative Return vs NCREIF Total Index



### Callan Total Domestic Real Estate DB (Gross) Annualized Five Year Risk vs Return





## Western Asset TIPS Period Ended June 30, 2021

### Investment Philosophy

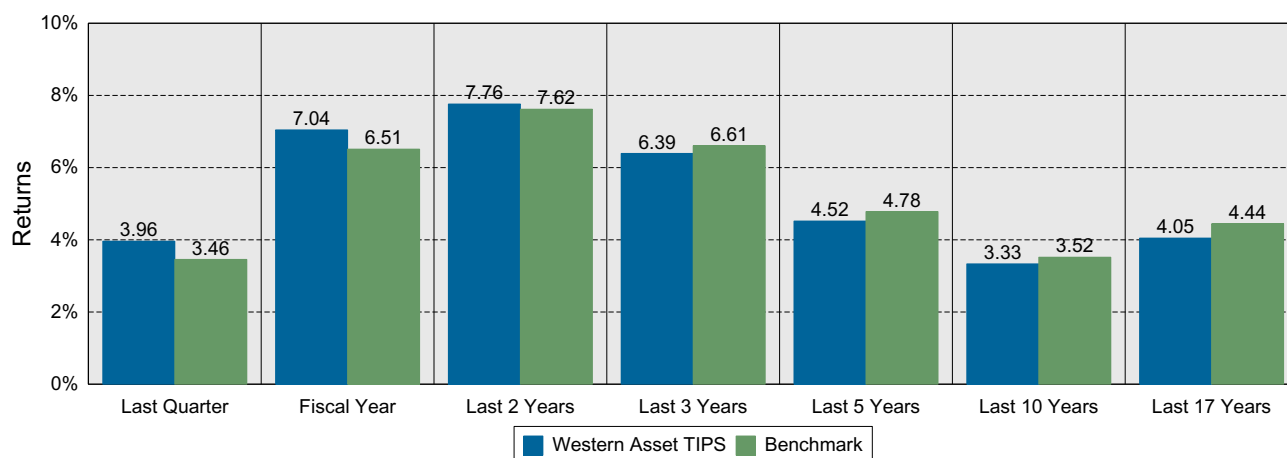
The Western Asset US TIPS Full Discretion strategy is an inflation-protected strategy that aims to maximize total return and add value through duration and curve positioning, sector allocation, and security selection, while approximating benchmark risk. The strategy invests in a diversified portfolio using higher-yielding inflation-protected instruments with a bias toward Treasury Inflation-Protected Securities (TIPS). Opportunistic investments include high-yield, emerging markets, non-dollar securities, commodities and bank loans that may also be employed using derivatives. **Benchmark: Bloomberg US TIPS through 12/31/2009; Bloomberg Global Inflation-Linked through 10/31/2018; Bloomberg US Govt Inflation Linked Bond Index thereafter.**

### Quarterly Summary and Highlights

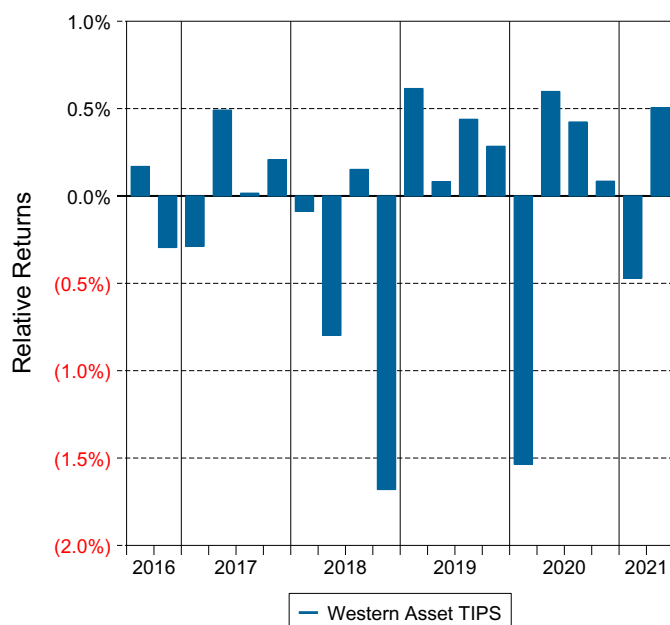
- Western Asset TIPS's portfolio outperformed the Benchmark by 0.50% for the quarter and outperformed the Benchmark for the year by 0.53%.

### Quarterly Asset Growth

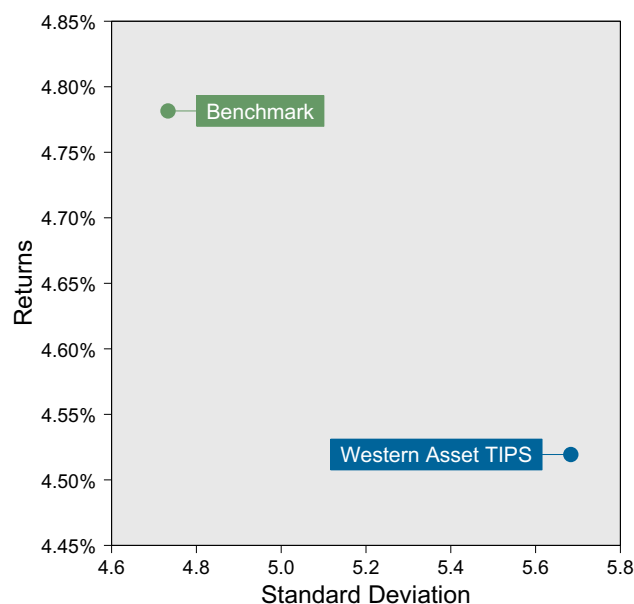
Beginning Market Value	\$170,870,565
Net New Investment	\$25,452,904
Investment Gains/(Losses)	\$7,007,200
Ending Market Value	\$203,330,670



### Relative Return vs Benchmark



### Annualized Five Year Risk vs Return



## Eastern Timber Opportunities Period Ended June 30, 2021

### Investment Philosophy

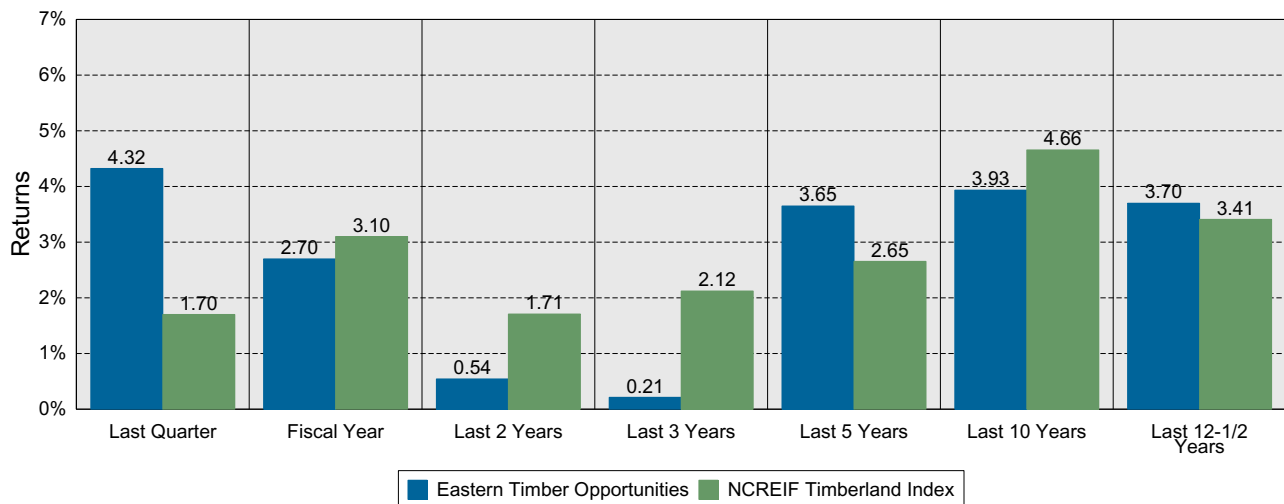
The investment objective of the Eastern Timberland Opportunities fund is to provide competitive timberland investment returns from Eastern US timberland investments by pursuing management strategies to increase timber production and land values through the investment term. TIR will maximize timber values within the portfolio with the application of intensive forest management techniques to accelerate the growth in timber volume and movement into higher value product categories. Additional value will be captured by realizing higher and better use opportunities for select timberland properties throughout the portfolio.

### Quarterly Summary and Highlights

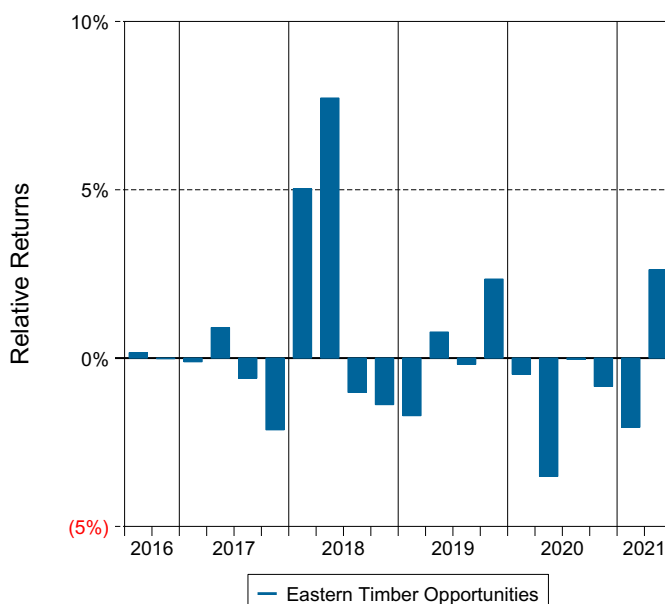
- Eastern Timber Opportunities's portfolio outperformed the NCREIF Timberland Index by 2.62% for the quarter and underperformed the NCREIF Timberland Index for the year by 0.40%.

### Quarterly Asset Growth

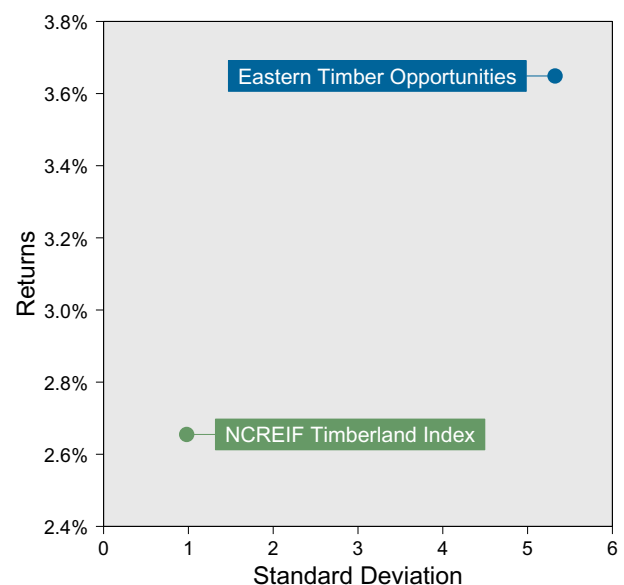
Beginning Market Value	\$51,218,983
Net New Investment	\$-3,119,585
Investment Gains/(Losses)	\$2,155,551
Ending Market Value	\$50,254,949



### Relative Return vs NCREIF Timberland Index



### Annualized Five Year Risk vs Return



## JP Morgan Infrastructure Period Ended June 30, 2021

### Investment Philosophy

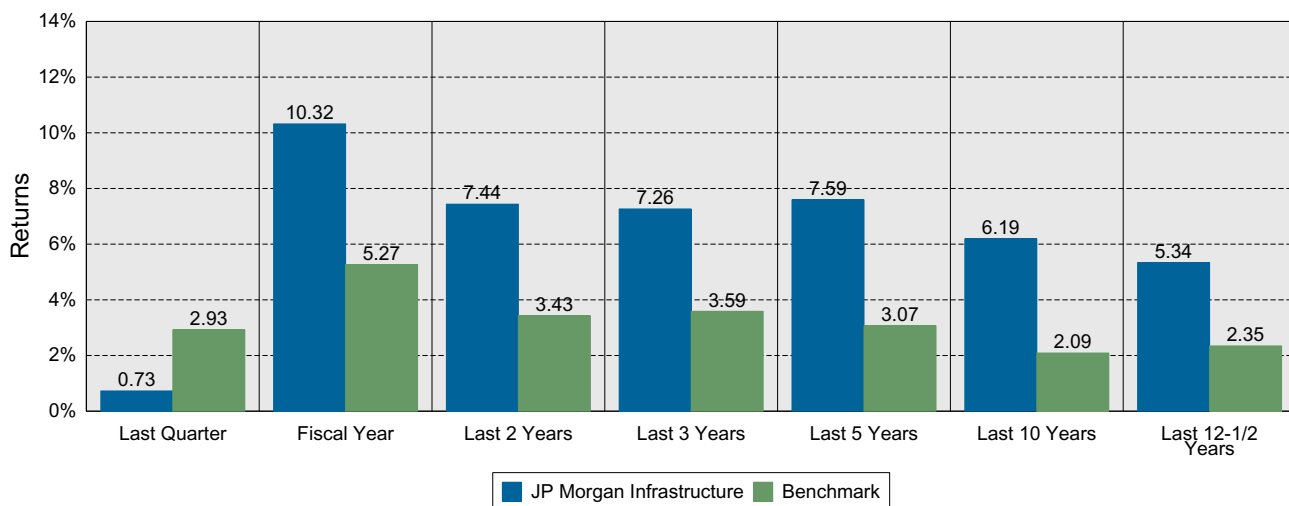
The only open-ended private commingled infrastructure fund in the U.S, the JPMorgan Infrastructure Investments Fund invests in stabilized assets in OECD countries with selected value-added opportunities, across infrastructure industry sub-sectors, including: toll roads, bridges and tunnels; oil and gas pipelines; electricity transmission and distribution facilities; contracted power generation assets; water distribution; waste-water collection and processing; railway lines and rapid rail links; and seaports and airports. **The Benchmark is comprised of CPI-W through June 30, 2018; 50% CPI-U lagged one quarter and 50% NFI-ODCE Equal Weight Net thereafter.**

### Quarterly Summary and Highlights

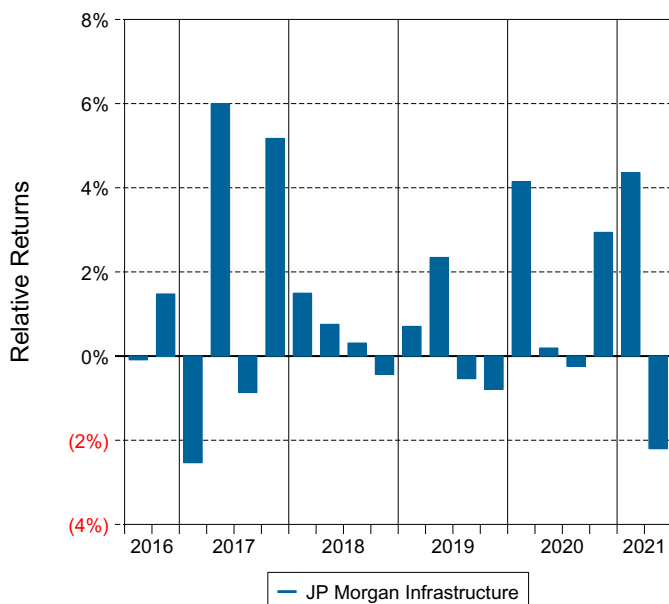
- JP Morgan Infrastructure's portfolio underperformed the Benchmark by 2.20% for the quarter and outperformed the Benchmark for the year by 5.05%.

### Quarterly Asset Growth

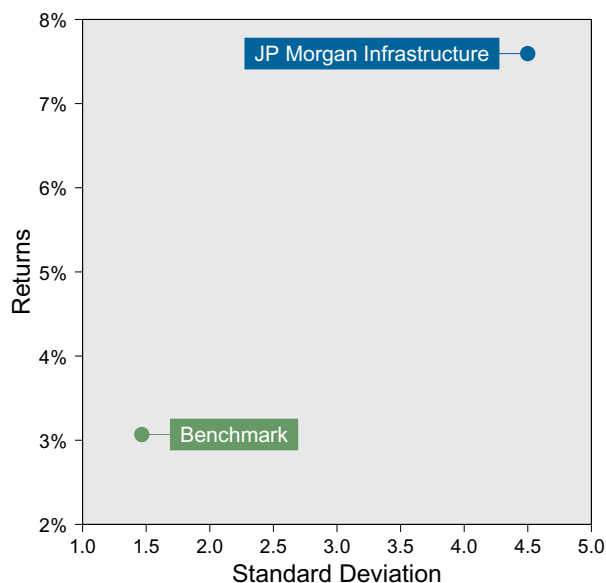
Beginning Market Value	\$42,272,844
Net New Investment	\$-1,112,744
Investment Gains/(Losses)	\$306,120
Ending Market Value	\$41,466,220



### Relative Return vs Benchmark



### Annualized Five Year Risk vs Return



## Grosvenor Cust. Infrastructure Period Ended June 30, 2021

### Investment Philosophy

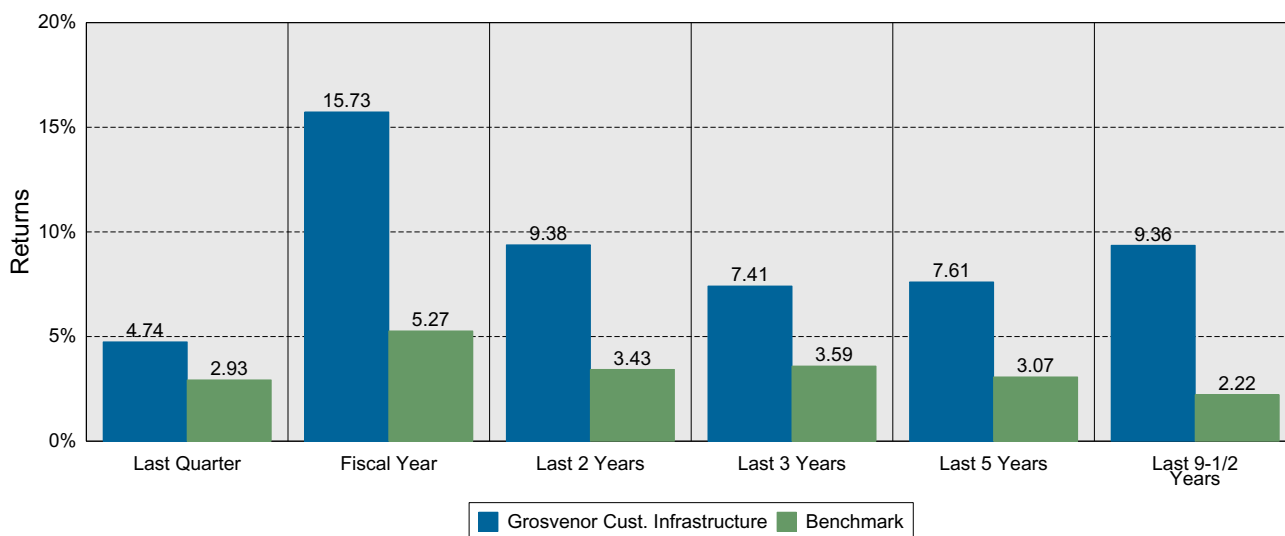
The Customized Infrastructure Strategies LP is a commingled fund focused on providing a comprehensive, diversified solution for investors looking to access the infrastructure asset class. The Fund seeks to generate stable, long-term yield and attractive risk-adjusted returns by investing in a diversified portfolio of primary core and core plus infrastructure funds (30%), co-investments (40%) and opportunistic secondary fund purchases (30%). **The Benchmark is comprised of CPI-W through June 30, 2018; 50% CPI-U lagged one quarter and 50% NFI-ODCE Equal Weight Net thereafter.**

### Quarterly Summary and Highlights

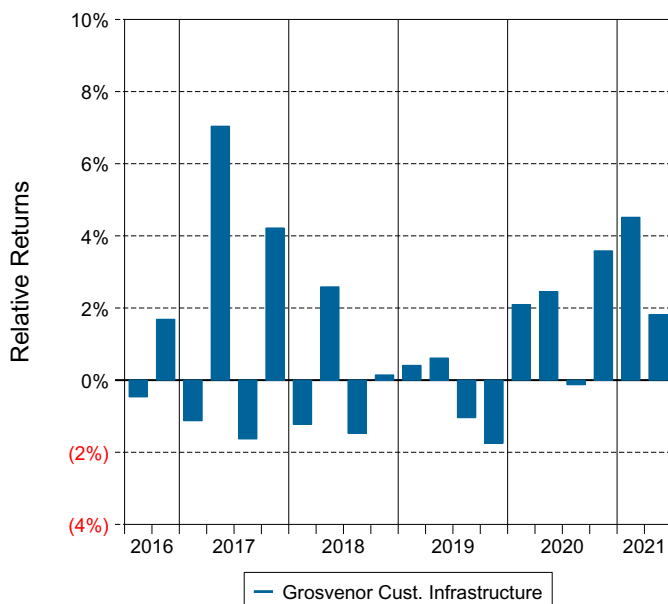
- Grosvenor Cust. Infrastructure's portfolio outperformed the Benchmark by 1.82% for the quarter and outperformed the Benchmark for the year by 10.46%.

### Quarterly Asset Growth

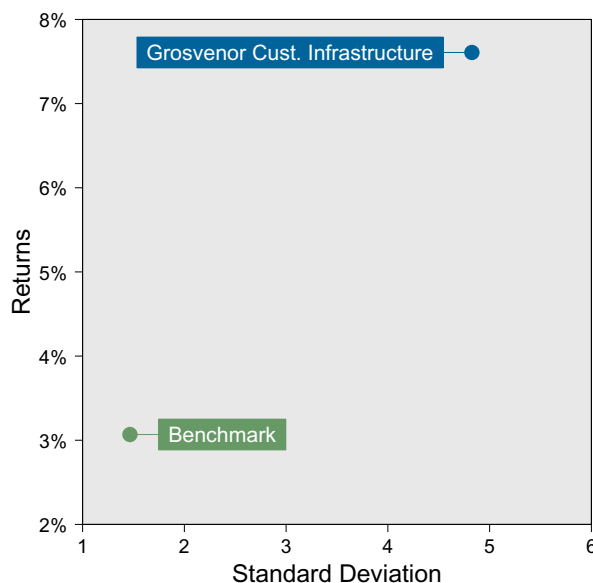
Beginning Market Value	\$6,685,943
Net New Investment	\$-714,288
Investment Gains/(Losses)	\$301,618
Ending Market Value	\$6,273,273



### Relative Return vs Benchmark



### Annualized Five Year Risk vs Return







## Short Term Fixed Income Period Ended June 30, 2021

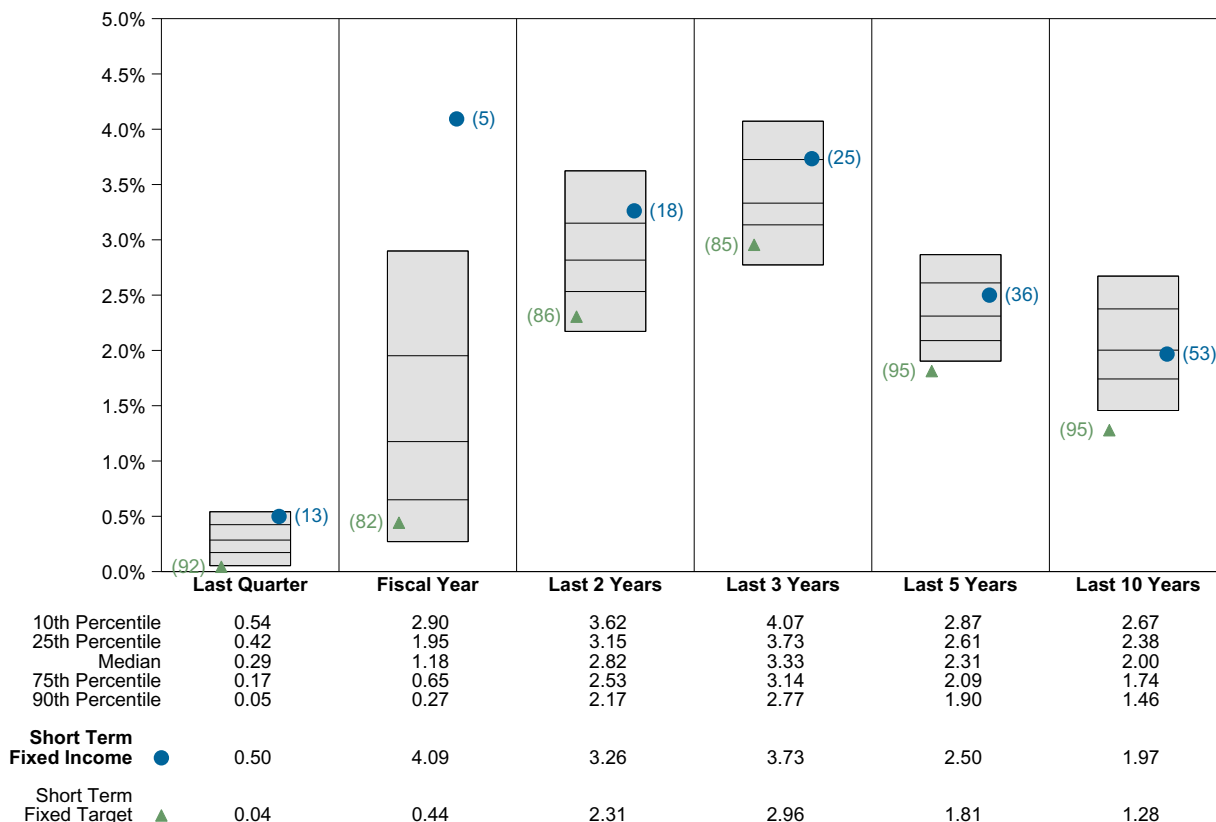
### Quarterly Summary and Highlights

- Short Term Fixed Income's portfolio posted a 0.50% return for the quarter placing it in the 13 percentile of the Callan Short Term Fixed Income group for the quarter and in the 5 percentile for the last year.
- Short Term Fixed Income's portfolio outperformed the Short Term Fixed Target by 0.45% for the quarter and outperformed the Short Term Fixed Target for the year by 3.65%.

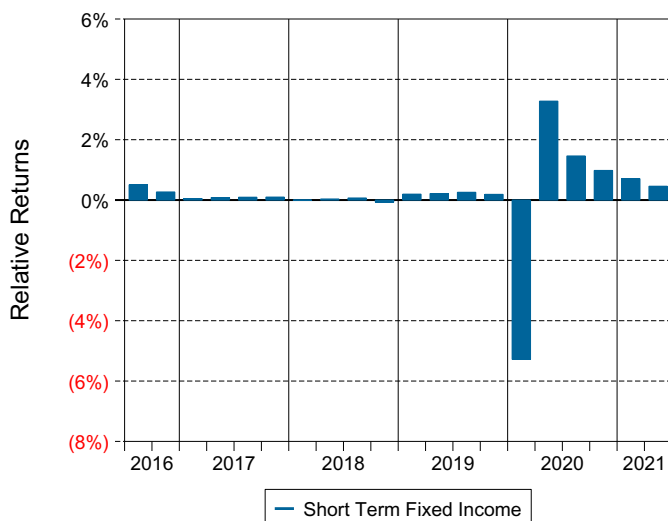
### Quarterly Asset Growth

Beginning Market Value	\$771,385,637
Net New Investment	\$2,680,639
Investment Gains/(Losses)	\$3,849,106
Ending Market Value	\$777,915,381

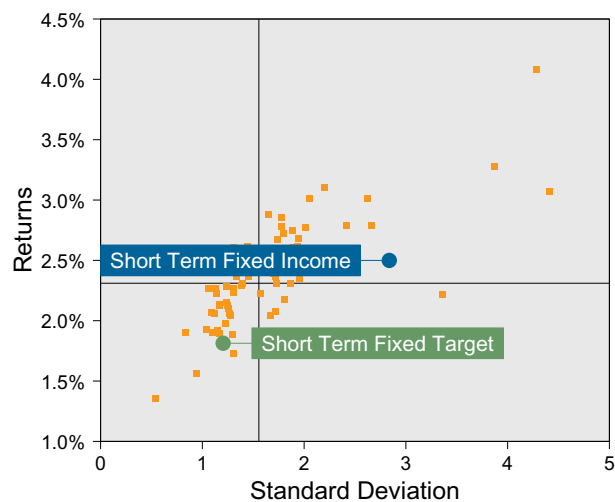
### Performance vs Callan Short Term Fixed Income (Gross)



### Relative Return vs Short Term Fixed Target



### Callan Short Term Fixed Income (Gross) Annualized Five Year Risk vs Return



## Barings Active Short Duration Period Ended June 30, 2021

### Investment Philosophy

Babson's Active Short Duration team employs a total return management style, which dynamically adjusts duration in response to actual yield curve conditions. The approach seeks to take advantage of a variety of relative value opportunities, predominantly in the investment grade universe, which should provide steady income and potential capital appreciation. Value is also added through security selection. The end result is a high quality/short duration portfolio that has historically captured most of the returns of moderate duration bonds.

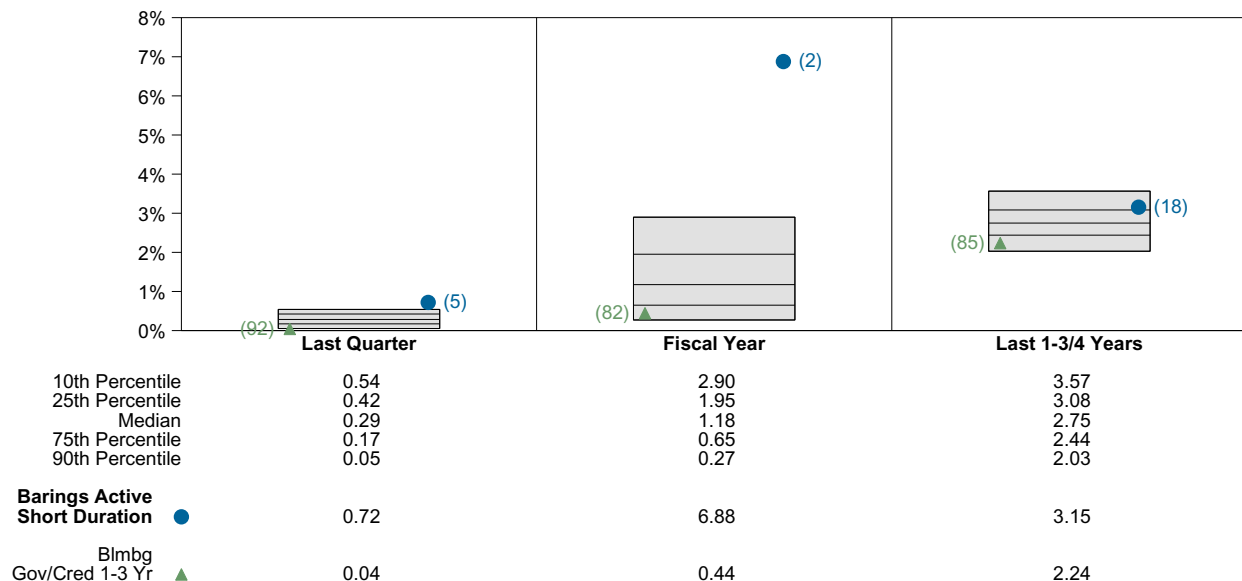
### Quarterly Summary and Highlights

- Barings Active Short Duration's portfolio posted a 0.72% return for the quarter placing it in the 5 percentile of the Callan Short Term Fixed Income group for the quarter and in the 2 percentile for the last year.
- Barings Active Short Duration's portfolio outperformed the Blmbg Gov/Cred 1-3 Yr by 0.68% for the quarter and outperformed the Blmbg Gov/Cred 1-3 Yr for the year by 6.43%.

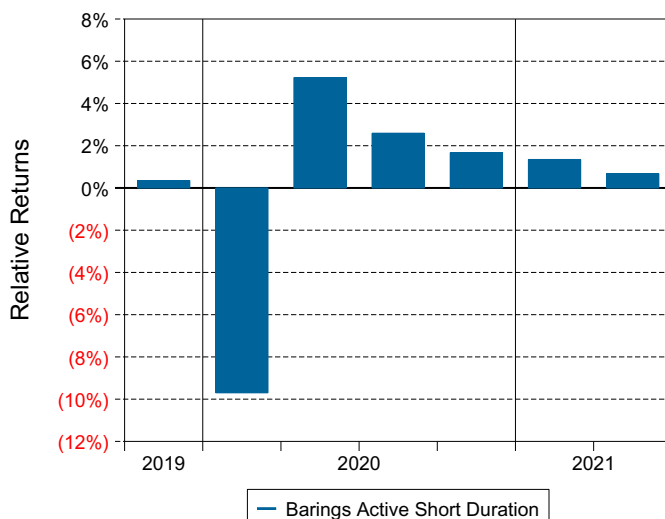
### Quarterly Asset Growth

Beginning Market Value	\$386,318,057
Net New Investment	\$1,378,904
Investment Gains/(Losses)	\$2,783,962
Ending Market Value	\$390,480,923

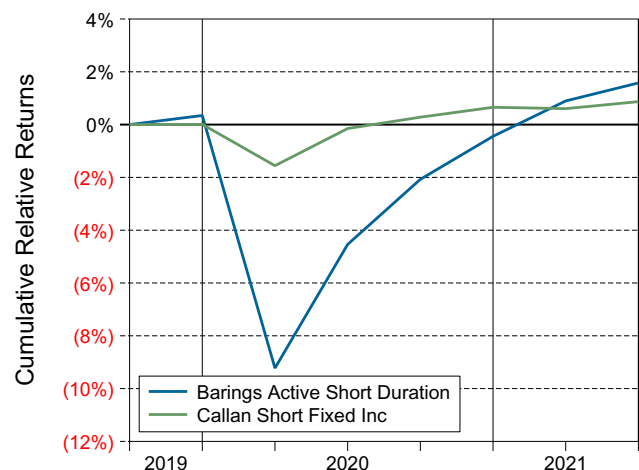
### Performance vs Callan Short Term Fixed Income (Gross)



### Relative Return vs Blmbg Gov/Cred 1-3 Yr



### Cumulative Returns vs Blmbg Gov/Cred 1-3 Yr



## JP Morgan Short Term Bonds Period Ended June 30, 2021

### Investment Philosophy

The investment objective of this account is to outperform the Barclays Capital 1-3 year Government/Credit Index while maintaining total return risk similar to that of the benchmark as measured over a market cycle. The weighted average effective duration of the portfolio will typically remain within +/- 30% of the benchmark.

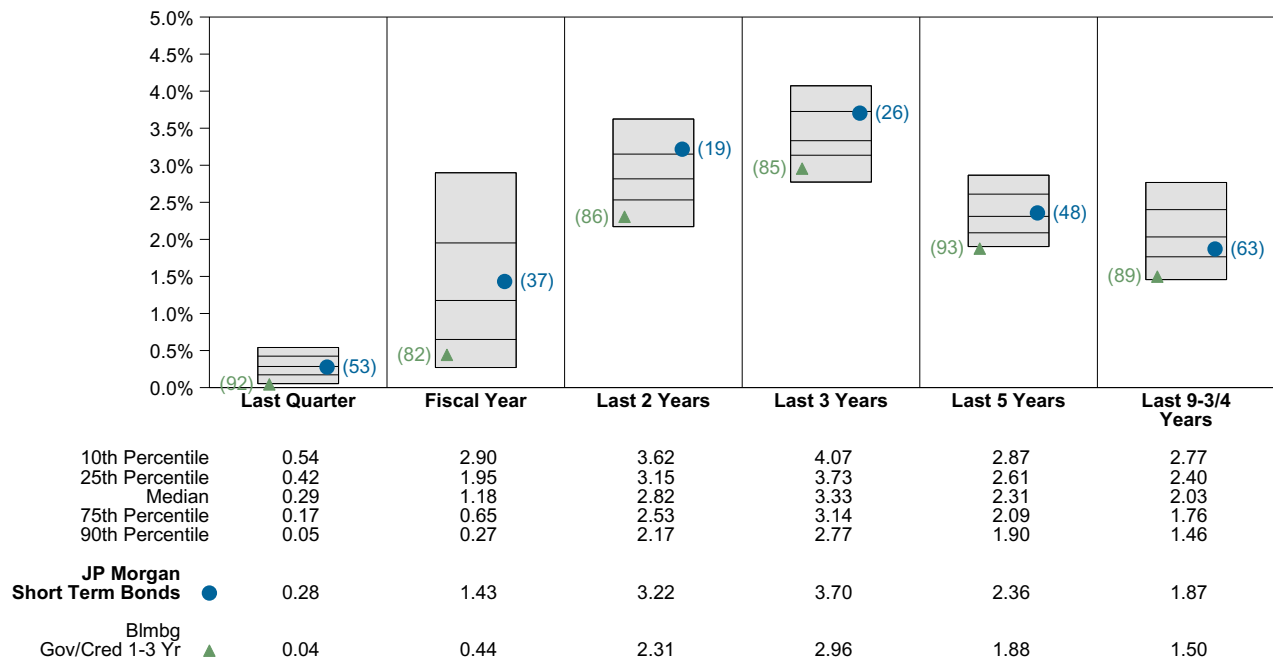
### Quarterly Summary and Highlights

- JP Morgan Short Term Bonds's portfolio posted a 0.28% return for the quarter placing it in the 53 percentile of the Callan Short Term Fixed Income group for the quarter and in the 37 percentile for the last year.
- JP Morgan Short Term Bonds's portfolio outperformed the Blmbg Gov/Cred 1-3 Yr by 0.23% for the quarter and outperformed the Blmbg Gov/Cred 1-3 Yr for the year by 0.99%.

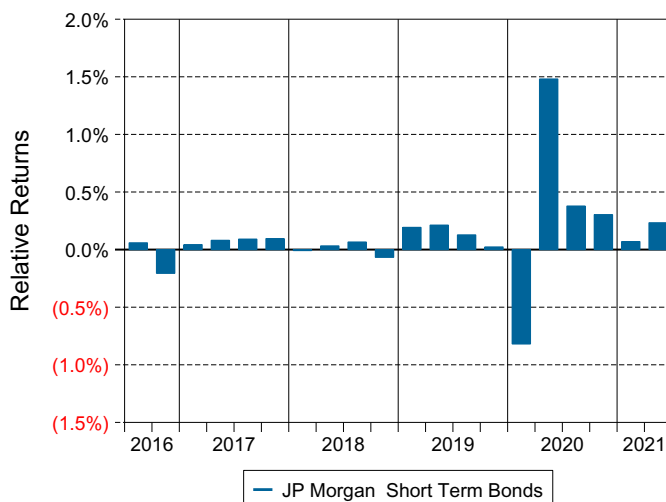
### Quarterly Asset Growth

Beginning Market Value	\$385,067,580
Net New Investment	\$1,301,734
Investment Gains/(Losses)	\$1,065,144
Ending Market Value	\$387,434,459

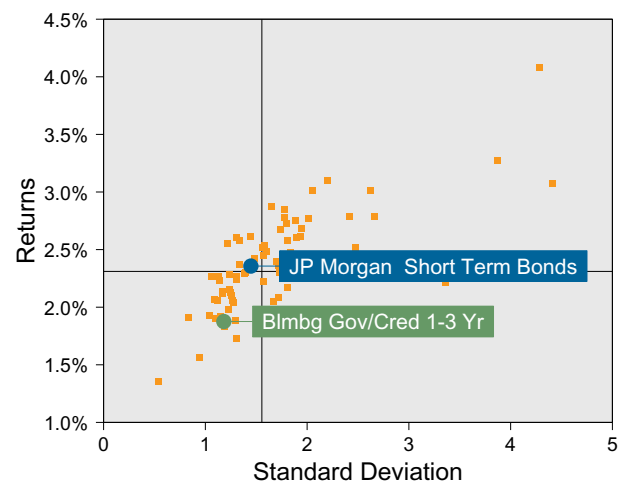
### Performance vs Callan Short Term Fixed Income (Gross)



### Relative Return vs Blmbg Gov/Cred 1-3 Yr



### Callan Short Term Fixed Income (Gross) Annualized Five Year Risk vs Return





## Quarterly Highlights

The Callan Institute provides research to update clients on the latest industry trends and carefully structured educational programs to enhance the knowledge of industry professionals. Visit [www.callan.com/research-library](http://www.callan.com/research-library) to see all of our publications, and [www.callan.com/blog](http://www.callan.com/blog) to view our blog. For more information contact Barb Gerraty at 415-274-3093 / [institute@callan.com](mailto:institute@callan.com).

## New Research from Callan's Experts

**Research Cafe: Insurance** | Callan's Insurance Focus Leader Sara Hakim discusses AM Best's rating methodology and current research findings with the firm's associate director Fred Eslami. They also discuss insurance assets and general insurance themes in the marketplace.

**Webinar: The Fed's Not Concerned About Inflation. Should You Be?** | Inflation is top of mind and the fear around it sparks the question of how to best structure a portfolio to protect it in an inflationary environment. Callan specialists Jay Kloeppfer and Jim Van Heuit share their knowledge about the issue.

**A Guide to Implementing a China A-Shares Allocation** | Callan's Ho Hwang provides a detailed exploration on how institutional investors can implement an allocation to China A-shares, focusing on manager search issues and benchmarking.

**Research Cafe: Callan Institute's ESG Interview Series** | During this interview, Tom Shingler of Callan discusses with Carol Jeppesen from Principles for Responsible Investment its mission, and what it means to be a PRI signatory for asset owners, asset managers, and service providers like Callan.

## Blog Highlights

**Capital Markets Assumptions and the Future** | The question that we often get from clients is, "How have you done in the past when predicting the future of the capital markets?" This blog post provides the answer.

**A JOLT of Inflation from the Labor Market?** | Recent economic reports have prompted fears that prices in the U.S. are about to take off. While increasing costs have been widespread, the greatest opportunity for sustained price increases lies in the labor market.

**When the Passive Index Is an Active Decision** | At first blush, the two most prominent large cap indices, the S&P 500 and Russell 1000 Indices, do not seem all that different. But it turns out they can be quite different, and choosing an index series for your passive manager to track can indeed be an active decision.

**Putting Values into Action: A Practical Guide for Institutional Investors** | Many institutional investors are becoming more active in emphasizing values-oriented investments. This can take several forms, but whatever the approach, it requires a deliberate and thoughtful process for successful implementation.

## Quarterly Periodicals

**Private Equity Trends, 1Q21** | A high-level summary of private equity activity in the quarter through all the investment stages

**Active vs. Passive Charts, 1Q21** | A comparison of active managers alongside relevant benchmarks over the long term

**Market Pulse Flipbook, 1Q21** | A quarterly market reference guide covering trends in the U.S. economy, developments for institutional investors, and the latest data on the capital markets

**Capital Markets Review, 1Q21** | Analysis and a broad overview of the economy and public and private market activity each quarter across a wide range of asset classes

**Hedge Fund Quarterly, 1Q21** | Commentary on developments for hedge funds and multi-asset class (MAC) strategies

**Real Assets Reporter, 1Q21** | A summary of market activity for real assets and private real estate during the quarter

## Events

Miss out on a Callan conference or workshop? Event summaries and speakers' presentations are available on our website: [callan.com/research-library](http://callan.com/research-library)

Please mark your calendar and look forward to upcoming invitations:

### Regional Workshops

**November 2, 2021, in Atlanta**

**November 5, 2021, in San Francisco**

**For more information about events, please contact Barb Gerraty: 415-274-3093 / [gerraty@callan.com](mailto:gerraty@callan.com)**

## Education: By the Numbers

**50+**

Unique pieces of research the Institute generates each year

**525**

Attendees (on average) of the Institute's annual National Conference

**3,700**

Total attendees of the "Callan College" since 1994

## Education

Founded in 1994, the "Callan College" offers educational sessions for industry professionals involved in the investment decision-making process.

### Introduction to Investments

**August 17-19, 2021 - Virtual**

**October 6-7, 2021 - Chicago**

**October 26-28, 2021 - Virtual**

This program familiarizes institutional investor trustees and staff and asset management advisers with basic investment theory, terminology, and practices. Our virtual session is held over three days with virtual modules of 2.5-3 hours, while the in-person lasts one-and-a-half days. This course is designed for individuals with less than two years of experience with asset-management oversight and/or support responsibilities. Virtual tuition is \$950 per person and includes instruction and digital materials. In-person tuition is \$2,350 per person and includes instruction, all materials, breakfast and lunch on each day, and dinner on the first evening with the instructors.

Additional information including registration can be found at: [callan.com/events-education](http://callan.com/events-education)

### Alternative Investments

**October 19-20, 2021 - Virtual**

Alternative investments like private equity, hedge funds, and real estate can play a key role in any portfolio. In our "Callan College" on Alternatives, you will learn about the importance of allocations to alternatives, and how to consider integrating, evaluating, and monitoring them. Two morning "virtual" sessions will cover topics such as: why invest in alternatives, risk/return characteristics, designing and implementing a program, and trends and case studies.

Additional information including dates and registration can be found at: [callan.com/events/oct-alts-college/](http://callan.com/events/oct-alts-college/)



**"Research is the foundation of all we do at Callan, and sharing our best thinking with the investment community is our way of helping to foster dialogue to raise the bar across the industry."**

Greg Allen, CEO and Chief Research Officer



## List of Callan's Investment Manager Clients

Confidential – For Callan Client Use Only

Callan takes its fiduciary and disclosure responsibilities to clients very seriously. We recognize that there are numerous potential conflicts of interest encountered in the investment consulting industry, and that it is our responsibility to manage those conflicts effectively and in the best interest of our clients. At Callan, we employ a robust process to identify, manage, monitor, and disclose potential conflicts on an ongoing basis.

The list below is an important component of our conflicts management and disclosure process. It identifies those investment managers that pay Callan fees for educational, consulting, software, database, or reporting products and services. We update the list quarterly because we believe that our fund sponsor clients should know the investment managers that do business with Callan, particularly those investment manager clients that the fund sponsor clients may be using or considering using. Please note that if an investment manager receives a product or service on a complimentary basis (e.g., attending an educational event), they are not included in the list below. Callan is committed to ensuring that we do not consider an investment manager's business relationship with Callan, or lack thereof, in performing evaluations for or making suggestions or recommendations to its other clients. Please refer to Callan's ADV Part 2A for a more detailed description of the services and products that Callan makes available to investment manager clients through our Institutional Consulting Group, Independent Adviser Group, and Fund Sponsor Consulting Group. Due to the complex corporate and organizational ownership structures of many investment management firms, parent and affiliate firm relationships are not indicated on our list.

Fund sponsor clients may request a copy of the most currently available list at any time. Fund sponsor clients may also request specific information regarding the fees paid to Callan by particular fund manager clients. Per company policy, information requests regarding fees are handled exclusively by Callan's Compliance department.

### Manager Name

Aberdeen Standard Investments

Acadian Asset Management LLC

Adams Street Partners, LLC

AEGON USA Investment Management Inc.

AEW Capital Management

Alan Biller and Associates

AllianceBernstein

Allianz

American Century Investments

AQR Capital Management

Ares Management LLC

Ariel Investments, LLC

Aristotle Capital Management, LLC

Atlanta Capital Management Co., LLC

Aviva Investors

AXA Investment Managers

Baillie Gifford International, LLC

Baird Advisors

### Manager Name

Barings LLC

Baron Capital Management, Inc.

Barrow, Hanley, Mewhinney & Strauss, LLC

BlackRock

BMO Global Asset Management

BNP Paribas Asset Management

BNY Mellon Asset Management

Boston Partners

Brandes Investment Partners, L.P.

Brandywine Global Investment Management, LLC

Brown Brothers Harriman & Company

Cambiar Investors, LLC

Capital Group

Carillon Tower Advisers

CastleArk Management, LLC

Causeway Capital Management LLC

Chartwell Investment Partners

ClearBridge Investments, LLC



**Manager Name**

Cohen &amp; Steers Capital Management, Inc.

Columbia Threadneedle Investments North America

Credit Suisse Asset Management

Crescent Capital Group LP

D.E. Shaw Investment Management, LLC

DePrince, Race &amp; Zollo, Inc.

Dimensional Fund Advisors LP

Doubleline

Duff &amp; Phelps Investment Management Co.

DWS

EARNEST Partners, LLC

Eaton Vance Management

Epoch Investment Partners, Inc.

Fayez Sarofim &amp; Company

Federated Hermes, Inc.

Fidelity Institutional Asset Management

Fiera Capital Corporation

First Hawaiian Bank Wealth Management Division

First Sentier Investors (formerly First State Investments)

Fisher Investments

Franklin Templeton

GAM (USA) Inc.

GCM Grosvenor

GlobeFlex Capital, L.P.

GoldenTree Asset Management, LP

Goldman Sachs

Guggenheim Investments

GW&amp;K Investment Management

Harbor Capital Group Trust

Heitman LLC

Hotchkis &amp; Wiley Capital Management, LLC

Income Research + Management, Inc.

Insight Investment

Intech Investment Management, LLC

Intercontinental Real Estate Corporation

Invesco

Ivy Investments

J.P. Morgan

Janus

Jennison Associates LLC

**Manager Name**

Jobs Peak Advisors

J O Hambro Capital Management Limited

KeyCorp

Lazard Asset Management

LGIM America (formerly Legal &amp; General Inv Mgmt America)

Lincoln National Corporation

Longview Partners

Loomis, Sayles &amp; Company, L.P.

Lord Abbett &amp; Company

LSV Asset Management

Mackay Shields LLC

Manning &amp; Napier Advisors, LLC

Manulife Investment Management

McKinley Capital Management, LLC

Mellon

MetLife Investment Management

MFS Investment Management

MidFirst Bank

Mondrian Investment Partners Limited

Montag &amp; Caldwell, LLC

Morgan Stanley Investment Management

MUFG Union Bank, N.A.

Natixis Investment Managers

Neuberger Berman

Newton Investment Management

Ninety One North America, Inc. (formerly Investec Asset Mgmt.)

North Star Investment Management Corporation

Northern Trust Asset Management

Nuveen

Pacific Investment Management Company

Parametric Portfolio Associates LLC

Partners Group (USA) Inc.

Pathway Capital Management

P/E Investments

Peregrine Capital Management, LLC

PFM Asset Management LLC

PGIM Fixed Income

PineBridge Investments

Polen Capital Management, LLC

Principal Global Investors

Manager Name
Putnam Investments, LLC
QMA LLC
RBC Global Asset Management
Regions Financial Corporation
Richard Bernstein Advisors LLC
Robeco Institutional Asset Management, US Inc.
Rothschild & Co. Asset Management US
S&P Dow Jones Indices
Schroder Investment Management North America Inc.
SLC Management
Smith Graham & Co. Investment Advisors, L.P.
Sprucegrove Investment Management Ltd.
State Street Global Advisors
Stone Harbor Investment Partners L.P.
StoneRidge Investment Partners, LLC
Strategic Global Advisors
T. Rowe Price Associates, Inc.
The TCW Group, Inc.

Manager Name
Thompson, Siegel & Walmsley LLC
Thornburg Investment Management, Inc.
Tri-Star Trust Bank
VanEck
Versus Capital Group
Victory Capital Management Inc.
Virtus Investment Partners, Inc.
Vontobel Asset Management
Voya
Washington Capital Management
WCM Investment Management
WEDGE Capital Management
Wellington Management Company LLP
Wells Fargo Asset Management
Western Asset Management Company LLC
Westfield Capital Management Company, LP
William Blair & Company LLC