Warrington Township Pension Committee Minutes for March 11, 2022 Meeting

The regular meeting of the Warrington Township Pension Committee was held at 1:05 pm. March 11, 2022 in the Neshaminy Room at the Warrington Township Building and Zoom. The members present were as follows:

Fred Gaines (BOS) Kenneth Hawthorn Peter Kim (Finance Dir) Joseph Kirby (Resident) Barry P. Luber (Twp Mgr)

Vanessa Maurer (BOS) Alexander Moldavskiy (Police Alt) Amy Organek (NUPP) Michael Simone (Resident)

Also present: Lee Martin – Marquette Assoc. William Torre - Marquette Assoc.

1. Call to Order

The meeting was called to order at 1:05pm.

2. Approval of Minutes

a. February 16, 2022

Mr. Kirby said these minutes are not ready yet. They will be forwarded to the committee when finished

3. 4th Quarter Pension Plan Performance Review

Mr. Martin reviewed the economy and our plans and performance.

The Police plan return was around 11.0%, just below the policy index of 11.9%. The NUPP return was 10.9%, just under the 11.6% policy index.

Negative factors were exposure to Global Equity and Emerging Markets. Positive exposure factors were Domestic Equity, Defensive Equity, Real Estate, and Fixed income.

It was suggested we consider reassessing the asset allocation study and consider some other option such as Private Credit & Core Plus Fixed Income for the Police Plan and Defensive Equity and Core Plus Fixed Income for the NUPP.

4. Review Asset Allocation

Mr. Torre & Mr. Martin Reviewed the options presented last meeting for Opportunistic Credit and Private Debt.

There was extended discussion on the different options and combinations of Opportunistic Credit and Private Debt as shown in the Strategic Asset Allocation Review Handout. There was concern with the concept of the Private Debt and options using that vehicle, so they were not considered.

In a motion by Mr. Kirby, seconded by Sgt. Hawthorn, the pension committee voted to recommend to the Board of Supervisors the adoption of option 1 - reducing the Total equity by

5% while adding 5% to the current Fixed income Structure. Additionally, the NUPP will remain the same. Motion passed unanimously.

5. Review Lowering the Assumed Rate of Return

The Assumed Rate of Return for the Police Plan is 7.1%. With the reduced risk and returns anticipated from the impending adoption of the Opportunistic Credit, it was suggested that the ARR be lowered. Several levels were discussed, and it was agreed that 6.75% would be the best for this change making it match the NUPP. They will have a similar ARR and risk level.

In a motion by Mr. Kirby and seconded by Mr. Luber, the Pension committee voted to reduce the Assumed Rate of Return for the Police Pension Plan to 6.75%. The NUPP is to remain the same. Motion passed unanimously

6. COLA Discussion

Sgt. Hawthorn reviewed his concerns regarding the lack of COLAs and delay in having the discussions to grant them. The COLA for 2022 had not been voted on for recommendation due to delays in scheduling meetings and the gathering of information. Sgt. Hawthorn distributed his analysis of the COLAs granted and retirees with details involving the total increases, the 30% allowable window for increases, and the increases granted. Also included was a chart of the history in state aid for the pension.

In a motion by Sgt Hawthorn, seconded by Ms. Maurer, the Pension Committee voted to recommend to the Board of Supervisors the granting of a 1% COLA for 2022 to both the Police and Non-Uniformed Pension Plans. The Motion Passed, 4-3

Fred Gaines - no Ken Hawthorn – yes Peter Kim - abstain Joseph Kirby - no Barry Luber - no Vanessa Maurer - yes

Amy Organek - yes Michael Simone - yes

This will be added to the agenda for the March 22, 2022 Board of Supervisors meeting.

7. COLA impact for 2023

We will be requesting information from John Vargo (actuary) for the effects of our motions from this meeting and for potential COLAs for 2023 of .5%, 1%, 1.5% and 2%.

8. Current Plan Investments Discussion (Michael Simone)

Mr. Simone reviewed his findings with the committee. Some of the items covered were overlapping investments, reviewing potential performance of other investment profiles, benchmarking and how we are measuring our managers. It was agreed that he would compile a list of questions for Marquette on his findings and they would be forwarded to Ms. Organek for disbursement to the committee for comment. They could then be forwarded on to Marquette.

8. Other Business - none

9. Action Items

- a. John Vargo will be contacted for updated numbers for the COLA proposal for the presentation for the BOS meeting. It was requested that he provide scenarios for .5%, 1%, 1.5%, and 2%
- b. Memos will be done for the COLA for 2022 (retroactive), The change in the Assumed Rate of Return, and the Asset Mr. Marcarelli will request analysis from the actuary for changing the rate of return for both plans.

Next Meeting – The next meeting is scheduled for May 11, 2022 at the township building. Tentatively, scheduled for the meeting is discussion on the 2023 COLA and Discussion on the questions from Mr. Simone.

Adjournment – 3:07 pm

Recorder: Amy Organek

Peter Kim

| From: Sent: | Joseph Kirby <joseph.kirby@brandywineglobal.com> Wednesday, February 16, 2022 4:23 PM</joseph.kirby@brandywineglobal.com> |
|----------------|---|
| To: | Amy Organek; Barry P. Luber; Fred Gaines; Kenneth Hawthorn; Imartin@marquetteassociates.com; |
| Cc: | Michael Simone; Alexander Moldavskiy; Vanessa Maurer; Peter Kim; William Torre Jr. Joseph Kirby (joseph_kirby@comcast.net) |
| Subject: | RE: Pension committee |

Amy:

We would like to schedule a follow up meeting in person in the township office in March.

The agenda will be:

- 1. Review and approve the minutes from this meeting (provided we clean them up in time) (max 5 min)
- Review the asset allocation discussion and options and plan to make a motion for proposing a change or staying the current course of AA. (Hopefully we can have Lee or Billy join in person or via zoom) (max 20 min)
- 3. Review and discuss the impact of lowering the Assumed Rates of Return for each plan. (max 15 min)
- 4. Review and discuss the impact of COLA's for 2022 and 2023 (max 15 min)
- 5. Review Michael Simone's work on the current plan investments and questions pertaining to the other expenses in the plan. (max 15-20 min)

I'm trying to be realistic to keep the meeting under 90 minutes. I think we can accomplish all of it in 1hour 15min and possibly even 1 hour. If you are only able to find a 60 min window that will work for everyone I propose we can reduce 3 and 4 by five minutes each and not worry about the first item if we don't have time. Michael has been patient as he has worked to refine his message so I want to give him the full 20 min and I think the asset allocation also requires a full 20 minute window. Any agenda items that are unresolved will need to be carried forward to the 1st quarter review discussion.

John Vargo will be emailing you and Peter answers to follow up items. It would be ideal to receive and distribute his response to the committee before this meeting if possible.

For scheduling I am unavailable the week of 3/21 - 3-25 between work and family commitments.

Lee / Billy: Can you update the asset allocation page with another scenario to include the other option I mentioned during the call? I asked what the risk model will show for splitting 10% shown in Option 2 from Opportunistic credit to 5% Opp credit & 5% private credit option.

Sincerely, Joe

Joseph J Kirby | Brandywine Global Investment Management, LLC Portfolio Manager

¹⁷³⁵ Market Street, Suite 1800 | Philadelphia, PA 19103

Phone: 215 609 3500 | Email: joseph.kirby@brandywineglobal.com



From: Amy Organek <Aorganek@warringtontownship.org>
Sent: Wednesday, February 9, 2022 12:51 PM
To: Barry P. Luber <bluber@warringtontownship.org>; Fred Gaines <fgainespe@gmail.com>; Kenneth Hawthorn
<khawthorn@warringtonpd.org>; Joseph Kirby <Joseph.Kirby@BrandywineGlobal.com>;
Imartin@marquetteassociates.com; Michael Simone <michaelsimone01@gmail.com>; Alexander Moldavskiy <amoldavskiy@warringtonpd.org>; Vanessa Maurer <vmaurer@warringtontownship.org>; Peter Kim <pkim@warringtontownship.org>
Subject: [EXTERNAL] Pension committee

Mimecast Attachment Protection has deemed this file to be safe, but always exercise caution when opening files.

These are the minutes from the last meetings we had and a tentative agenda. Remember I will not be present this meeting.

Thank you,

Amy Organek Assistant Finance Director Warrington Township 215-343-9350 x108 F 215-343-5944 aorganek@warringtontownship.org

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ADDENDUM

THE WARRINGTON TOWNSHIP POLICE PENSION PLAN BOARD OF SUPERVISORS INVESTMENT POLICY STATEMENT DATED MARCH 24, 2015 AMENDED AUGUST 1, 2016 AMENDED JUNE 13, 2017 AMENDED DECEMBER, 2018

DOCUMENT CHANGES:

1. ASSET ALLOCATION GUIDELINES......ATTACHMENT I

DECREASED EQUITY TARGET FROM 68% TO 63%

Decreased Domestic Equity Target from 43% to 42%. Decreased international Equity Target from 25% to 21% Minimum and Maximum Ranges adjusted to +/- 10% of targets.

INCREASED FIXED INCOME TARGET FROM 20% TO 25%

INCREASED BONDS TARGET FROM 18% TO 23% MINIMUM AND MAXIMUM RANGES SET TO 0% AND 10%, RESPECTIVELY

| Adopted | ,2022 |
|---------|-----------|
| | |

EFFECTIVE_____, 2022

CHAIRPERSON

MEMBER

MEMBER

MEMBER

MEMBER

Attachment I

| Asset Class | <u>Minimum, %</u> | <u>Target, %</u> | <u>Maximum, %</u> | Benchmark |
|--------------------|-------------------|------------------|-------------------|---|
| Equities | 53 | 63 | 73 | |
| Domestic | 32 | 42 | 52 | Russell 3000 |
| International | 11 | 21 | 31 | MSCI ACWI ex U.S. IMI (net) |
| Fixed Income | 15 | 25 | 35 | |
| Bonds | 13 | 23 | 33 | Barclay's Capital U.S. Intermediate Government/Credit |
| Cash | 0 | 2 | 5 | ML 90 Day T-Bill |
| Real Estate | 2 | 7 | 12 | NCREIF ODCE Index |
| Defensive Equity | 0 | 5 | 10 | 50S&P/50ML 90 Day T-Bill |



Warrington Township

Quarterly Performance Report as of December 31, 2021



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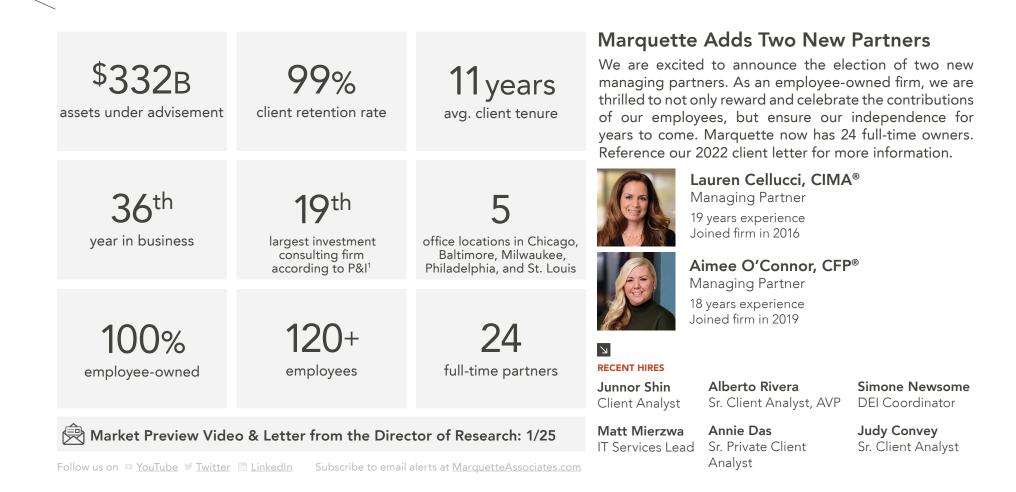
Marquette Update



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Marquette Update

1Q 2022



Firm and client statistics as of September 30, 2021. Client retention rate calculated 2011–2020. ¹As of June 30, 2021 per P&I Daily 2021 Investment Management Consultants Survey ranked by worldwide institutional assets under advisement. Marquette is an independent investment adviser registered under the Investment Advisers Act of 1940, as amended. Registration does not imply a certain level of skill or training. More information about Marquette including our investment strategies, fees and objectives can be found in our ADV Part 2, which is available upon request.



INDEPENDENT INVESTMENT CONSULTING

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Market Environment

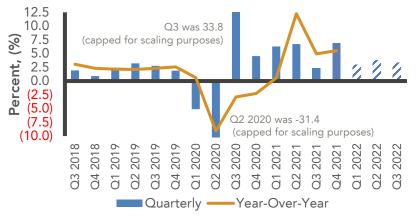


U.S. Economy

- Economic activity accelerated in Q4, with real GDP increasing by a better-than-expected annual rate of 6.9%. Growth was primary driven by private inventory accumulation and consumer spending. The former accounted for approximately 70% of real GDP growth.
- For 2022, a continued increase in inventory investment is expected to be a key driver of economic growth as inventories remain near historic lows relative to sales for many industries.
- However, the economy is still grappling with persistent supply chain disruptions. Outside the U.S., several countries are re-imposing lockdown measures, most notably in China. This approach may exacerbate supply chain issues, leaving businesses unable to build their respective inventories as economists currently anticipate.
- Most economists expect inflation to peak in Q1. However, supply chain issues may cause inflation to decelerate less quickly than anticipated through the remainder of 2022.

Sources: Refinitiv and The Wall Street Journal. Striped bars reflect estimates.

U.S. Real GDP Growth



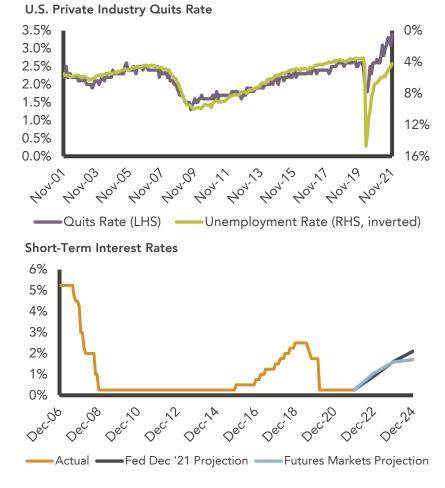
U.S. Retail Inventory-to-Sales Ratio



U.S. Economy

- The labor market continues to tighten amid supply constraints. While the December employment report came in below expectations, the unemployment rate dropped to just 3.9% — its lowest level since before the pandemic.
- Notably, the quits rate, or resignations as a percentage of the workforce, within private industries continued to increase. A record number of workers quit their jobs in November, seeking better opportunities, higher wages, or leaving the workforce entirely. At 3.4%, the quits rate is consistent with an unemployment rate of below 1%.
- A tight labor market, coupled with accelerating inflation across most industries, has led the Federal Reserve to shift its outlook for monetary policy. Specifically, the Fed now anticipates it will halt its current quantitative easing program in March, while raising short-term rates three times this year and another three times in 2023.

Sources: Refinitiv. The concept for the U.S. Private Industries Quits Rate vs. Unemployment chart was sourced from KKR's *A Different Kind of Recovery* December 2021 publication.

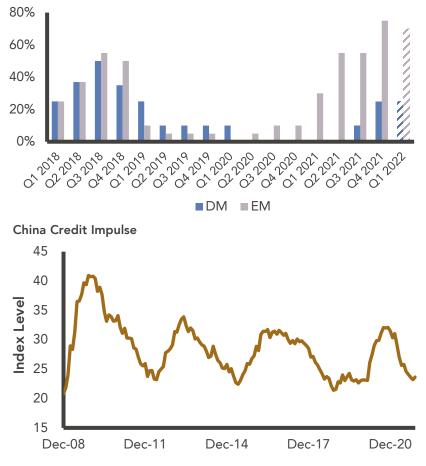


Marquette Associates

Global Economy

- Outside the U.S., similar dynamics are playing out across the global economy. Global economic growth appears to have reaccelerated meaningfully from the Q3 slowdown.
- Like the Federal Reserve, global central banks are poised to tighten policy in 2022. Morgan Stanley estimates that nearly 80% and approximately 25% of emerging market and developed market central banks, respectively, will raise rates this year.
- One key exception is China, where economic growth slowed meaningfully in the second half of 2021 amid the country's "zero COVID policy", a challenging property market and subdued credit growth. In fact, the PBOC has eased policy recently, lowering banks' reserve requirement ratios and cutting the one-year loan prime rate. Most economists expect policymakers to continue easing policy throughout 2022.



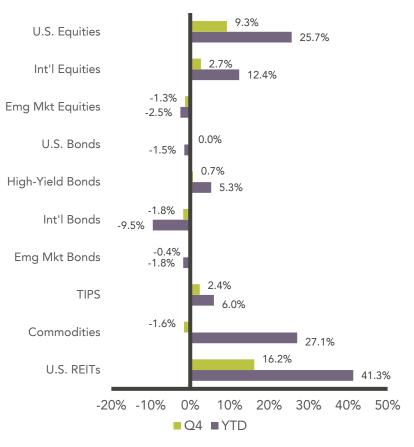


Sources: Morgan Stanley and Bloomberg. Striped bars reflect estimates. The credit impulse is defined as the monthly change of the flow in new credit as a share of GDP.

Global Asset Class Performance

- Global equities ended Q4 firmly in the black as investors focused on strong corporate earnings, though there was a wide dispersion across regions. U.S. equities handily outperformed their international developed and emerging market counterparts. The latter finished in the red once again, with U.S. dollar strength hurting returns, and lagged non-U.S. developed markets by nearly 15 percentage points in 2021.
- Fixed income returns were muted during Q4, with investment-grade bonds flat for the quarter. Subinvestment grade debt outperformed, with high-yield bonds and bank loans both returning 0.7% for the quarter.
- Inflation-sensitive assets performance was mixed in Q4. TIPS outperformed nominal bonds amid rising inflation expectations, while commodities declined amid demand concerns generated by the emergence of the omicron COVID-19 variant. Finally, REITs topped broad equity markets, with the asset class posting its secondstrongest calendar year on record.

Asset Class Returns: Select Asset Class Performance



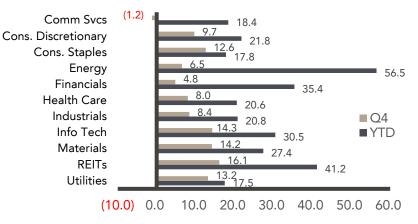


U.S. Equity Markets

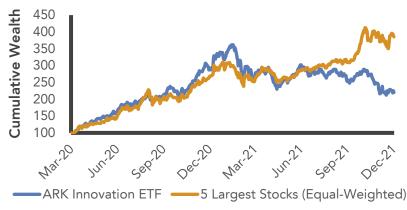
- U.S. equity rallied in Q4, overcoming a late-November sell-off in reaction to the global spread of the omicron variant. All sectors were in the black, except Communication Services, with REITs (+16.1%), Information Technology (+14.3%) and Materials (+14.2%) leading the way.
- Similar to Q3, growth stocks and large caps were best from a style and capitalization perspective, benefitting from the outperformance of Information Technology.
- Further down the capitalization spectrum, however, value outperformed within mid- and small-cap stocks. After a meteoric rise amid the pandemic, many unprofitable small- and mid-cap technology stocks fell dramatically in Q4 amid the prospect of rising interest rates.

Sources: Refinitiv. The five largest stocks are Microsoft, Apple, Amazon, Tesla and Alphabet. The ARK Innovation ETF is predominantly comprised of smaller, unprofitable technology companies and is widely cited by market participants as a proxy for unprofitable small- and mid-cap technology stocks.

Sector Returns

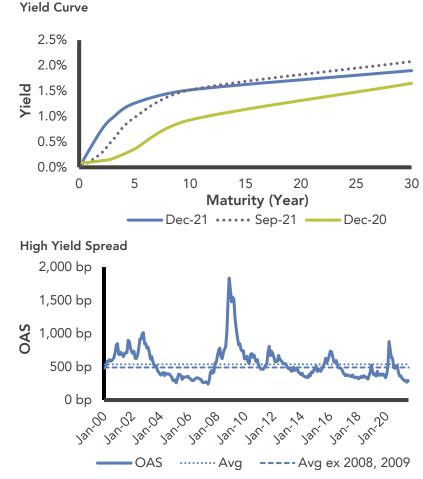






U.S. Fixed Income

- Interest rates on the short and intermediate part of the Treasury yield curve rose sharply amid the prospects of tighter monetary policy, while yields on long-term bonds fell modestly.
- After very strong returns in both 2019 and 2020, the bond market succumbed to the upward pressure on rates and delivered negative returns in 2021. At -1.5%, the Bloomberg Aggregate Bond Index posted just its fourth negative calendar year return since the index began in 1976.
- Sub-investment grade debt continued to outperform their investment-grade counterparts. High yield (+0.7%) and bank loans (+0.7%) posted gains as spreads were little changed. High yield spreads, for example, ended the quarter at 283 basis points—down slightly from 289 at the end of Q2, but well below the long-term average of about 537 basis points.



Sources: Bloomberg Barclays and Refinitiv



Global Index Returns

| DOMESTIC EQUITY | QTR | YTD | 1 Year | 3 Year | 5 Year | 10 Year |
|--------------------------------|-------|------|--------|--------|--------|---------|
| S&P 500 Index | 11.0 | 28.7 | 28.7 | 26.1 | 18.5 | 16.6 |
| Russell 3000 Index | 9.3 | 25.7 | 25.7 | 25.8 | 18.0 | 16.3 |
| Russell 3000 Growth Index | 10.9 | 25.9 | 25.9 | 33.2 | 24.6 | 19.4 |
| Russell 3000 Value Index | 7.5 | 25.4 | 25.4 | 17.6 | 11.0 | 12.9 |
| Russell TOP 200 Index | 11.0 | 27.9 | 27.9 | 27.3 | 19.7 | 17.2 |
| Russell TOP 200 Growth Index | 13.7 | 31.2 | 31.2 | 35.6 | 26.8 | 20.7 |
| Russell TOP 200 Value Index | 7.4 | 23.5 | 23.5 | 16.6 | 11.1 | 12.7 |
| Russell 1000 Index | 9.8 | 26.5 | 26.5 | 26.2 | 18.4 | 16.5 |
| Russell 1000 Growth Index | 11.6 | 27.6 | 27.6 | 34.1 | 25.3 | 19.8 |
| Russell 1000 Value Index | 7.8 | 25.2 | 25.2 | 17.6 | 11.2 | 13.0 |
| Russell Mid-Cap Index | 6.4 | 22.6 | 22.6 | 23.3 | 15.1 | 14.9 |
| Russell Mid-Cap Growth Index | 2.8 | 12.7 | 12.7 | 27.5 | 19.8 | 16.6 |
| Russell Mid-Cap Value Index | 8.5 | 28.3 | 28.3 | 19.6 | 11.2 | 13.4 |
| Russell 2000 Index | 2.1 | 14.8 | 14.8 | 20.0 | 12.0 | 13.2 |
| Russell 2000 Growth Index | 0.0 | 2.8 | 2.8 | 21.2 | 14.5 | 14.1 |
| Russell 2000 Value Index | 4.4 | 28.3 | 28.3 | 18.0 | 9.1 | 12.0 |
| DOMESTIC EQUITY BY SECTOR (MSC |) | | | | | |
| Communication Services | (1.2) | 18.4 | 18.4 | 25.4 | 12.9 | 12.6 |
| Consumer Discretionary | 9.7 | 21.8 | 21.8 | 32.1 | 23.0 | 20.2 |
| Consumer Staples | 12.6 | 17.8 | 17.8 | 18.4 | 11.4 | 12.2 |
| Energy | 6.5 | 56.5 | 56.5 | 4.6 | (2.2) | 0.3 |
| Financials | 4.8 | 35.4 | 35.4 | 20.5 | 12.7 | 15.8 |
| Health Care | 8.0 | 20.6 | 20.6 | 20.3 | 17.8 | 17.5 |
| Industrials | 8.4 | 20.8 | 20.8 | 21.0 | 13.1 | 14.6 |
| Information Technology | 14.3 | 30.5 | 30.5 | 41.6 | 31.2 | 23.5 |
| Materials | 14.2 | 27.4 | 27.4 | 23.5 | 14.0 | 12.6 |
| Real Estate | 16.1 | 41.2 | 41.2 | 20.0 | 12.5 | 12.1 |
| Utilities | 13.2 | 17.5 | 17.5 | 13.4 | 11.4 | 11.1 |

Global Index Returns

| INTERNATIONAL/GLOBAL EQUITY | QTR | YTD | 1 Year | 3 Year | 5 Year | 10 Year |
|----------------------------------|-------|-------|--------|--------|--------|---------|
| MSCI EAFE (Net) | 2.7 | 11.3 | 11.3 | 13.5 | 9.6 | 8.0 |
| MSCI EAFE Growth (Net) | 4.1 | 11.3 | 11.3 | 19.0 | 13.6 | 10.1 |
| MSCI EAFE Value (Net) | 1.2 | 10.9 | 10.9 | 7.8 | 5.3 | 5.8 |
| MSCI EAFE Small Cap (Net) | 0.1 | 10.1 | 10.1 | 15.6 | 11.0 | 10.8 |
| MSCI AC World Index (Net) | 6.7 | 18.5 | 18.5 | 20.4 | 14.4 | 11.9 |
| MSCI AC World Index Growth (Net) | 6.9 | 17.1 | 17.1 | 27.6 | 19.9 | 14.7 |
| MSCI AC World Index Value (Net) | 6.3 | 19.6 | 19.6 | 12.9 | 8.7 | 8.8 |
| MSCI Europe ex UK (Net) | 5.7 | 15.7 | 15.7 | 17.0 | 11.5 | 9.4 |
| MSCI United Kingdom (Net) | 5.6 | 18.5 | 18.5 | 8.7 | 6.2 | 5.1 |
| MSCI Pacific ex Japan (Net) | (0.1) | 4.7 | 4.7 | 9.7 | 8.3 | 6.8 |
| MSCI Japan (Net) | (4.0) | 1.7 | 1.7 | 11.7 | 8.5 | 8.3 |
| MSCI Emerging Markets (Net) | (1.3) | (2.5) | (2.5) | 10.9 | 9.9 | 5.5 |



Global Index Returns

| | OTD. | VTD | 4.24 | 0.1/ | | 40.1/ |
|-------------------------------------|-------|-------|--------|--------|--------|---------|
| FIXED INCOME | QTR | YTD | 1 Year | 3 Year | 5 Year | 10 Year |
| Merrill Lynch 3-month T-Bill | 0.0 | 0.0 | 0.0 | 1.0 | 1.1 | 0.6 |
| Barclays Intermediate Gov't./Credit | (0.6) | (1.4) | (1.4) | 3.9 | 2.9 | 2.4 |
| Barclays Aggregate Bond | 0.0 | (1.5) | (1.5) | 4.8 | 3.6 | 2.9 |
| Barclays Short Government | (0.2) | (0.2) | (0.2) | 1.6 | 1.5 | 0.9 |
| Barclays Intermediate Government | (0.6) | (1.7) | (1.7) | 3.0 | 2.3 | 1.7 |
| Barclays Long Government | 3.0 | (4.6) | (4.6) | 8.8 | 6.5 | 4.5 |
| Barclays Investment Grade Corp. | 0.2 | (1.0) | (1.0) | 7.6 | 5.3 | 4.7 |
| Barclays High Yield Corp. Bond | 0.7 | 5.3 | 5.3 | 8.8 | 6.3 | 6.8 |
| JPMorgan Global ex US Bond | (1.8) | (9.5) | (9.5) | 1.7 | 2.6 | 0.3 |
| JPMorgan Emerging Market Bond | (0.4) | (1.8) | (1.8) | 5.9 | 4.7 | 5.3 |
| INFLATION SENSITIVE | | | | | | |
| Consumer Price Index | 1.6 | 7.0 | 7.0 | 3.5 | 2.9 | 2.1 |
| BC TIPS | 2.4 | 6.0 | 6.0 | 8.4 | 5.3 | 3.1 |
| Commodities | (1.6) | 27.1 | 27.1 | 9.9 | 3.7 | (2.9) |
| Gold | 4.0 | (4.3) | (4.3) | 11.0 | 8.4 | 0.7 |
| REITs | 16.2 | 41.3 | 41.3 | 19.9 | 12.5 | 12.2 |
| FTSE EPRA/NAREIT Global REITs | 12.2 | 31.3 | 31.3 | 12.7 | 7.5 | 8.6 |
| NCREIF ODCE* | 7.7 | 21.1 | 21.1 | 8.2 | 7.8 | 9.4 |
| NCREIF Farmland** | 1.5 | 5.5 | 5.5 | 4.9 | 5.5 | 10.2 |
| NCREIF Timberland** | 1.9 | 5.0 | 5.0 | 2.4 | 2.9 | 4.9 |

*Data are preliminary.

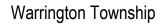
**Data are as of September 30, 2021.



Warrington Township

Executive Summary

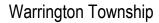




As of December 31, 2021

Observations

- Market Value as of 12/31/2021
 - Police Pension Plan: \$24.8 million
 - Non-Uniform Pension Plan: \$8.0 million
- Q4-21 Investment Gain and Return:
 - Police Gain: \$1.2M, Return: 5.3% (net), Policy Index: 5.1%, Peer Group Ranking: Top Quartile
 - Non-Uniform Gain: \$367K, Return: 4.8% (net), Policy Index: 4.5%, Peer Group Ranking: Top Quartile
- Positive attribution for the quarter from:
 - Domestic Equity (Active SMID Cap)
 - Defensive Equity
 - Real Estate
 - Fixed Income (Active Investment Grade and Below Investment Grade Credit)
- Negative attribution for the quarter from:
 - Global Equity (Active Value and Growth)
 - Emerging Markets (Passive Management)
- 2021 Investment Gain and Return:
 - Police Gain: \$3.2M, Return: 15.0% (net), Policy Index: 14.7%, Peer Group Ranking: Top Quartile
 - Non-Uniform Gain: \$954K, Return: 13.5% (net), Policy Index: 13.1%, Peer Group Ranking: 2nd Quartile
- 5-Year Investment Gain, Return and Statistics:
 - Police Gain: \$9.5M, Return: 11.0% (net), Policy Index: 11.9%, Assumed Rate of Return: 7.1%
 - Beta: 0.98 with lower volatility
 - Peer Group Ranking: 2nd Quartile



As of December 31, 2021

- Non-Uniform Gain: \$3.3M, Return: 10.9% (net), Policy Index: 11.6%, Assumed Rate of Return: 6.75%
 - Beta: 0.96 with lower downside capture and volatility
 - Peer Group Ranking: 2nd Quartile

Recent Actions/Looking Ahead

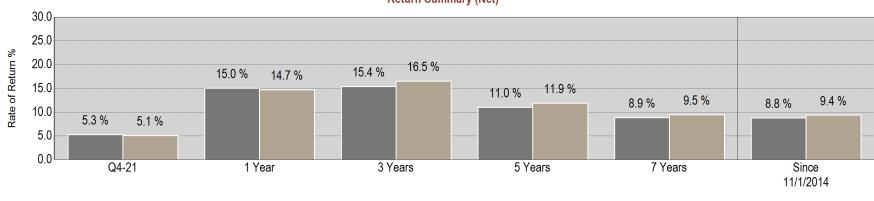
- Defensive Equity allocation in the Police Pension Plan was split in October for diversification benefits
 - Added NB U.S. Equity Putwrite
- Changes to International Equity Structure in January '22
 - Terminated Emerging Markets Index (passive management)
 - Added Harding Loevner International Small Cap and Wellington Emerging Markets (both active management)
- Revisit Asset Allocation Study Review
 - Police Pension: Includes additional options profiling Private Credit & Core Plus Fixed Income
 - Non-Uniform Pension: Includes additional options profiling Defensive Equity & Core Plus Fixed Income
- Asset Class Education
 - Core Plus Fixed Income
 - Private Credit

Portfolio Summary

As of December 31, 2021

Summary of Cash Flows

| | Fourth Quarter | One Year | Three Years | Five Years | Seven Years | Since 11/1/14 |
|------------------------|----------------|--------------|--------------|--------------|--------------|------------------|
| Beginning Market Value | \$22,564,931 | \$21,108,704 | \$14,261,669 | \$13,293,111 | \$12,053,042 | \$12,033,064 |
| Contributions | \$1,202,795 | \$1,372,554 | \$5,208,041 | \$6,349,904 | \$8,122,905 | \$8,149,617 |
| Withdrawals | -\$234,102 | -\$886,445 | -\$2,920,952 | -\$4,383,936 | -\$5,853,694 | -\$5,952,060 |
| Net Cash Flow | \$968,692 | \$486,109 | \$2,287,089 | \$1,965,968 | \$2,269,211 | \$2,197,557 |
| Net Investment Change | \$1,218,466 | \$3,157,276 | \$8,203,331 | \$9,493,010 | \$10,429,836 | \$10,521,468 |
| Ending Market Value | \$24,752,089 | \$24,752,089 | \$24,752,089 | \$24,752,089 | \$24,752,089 | \$24,752,089 |



Return Summary (Net)

Total Fund Composite Policy Index

Asset Allocation vs. Target

| | Current | Policy | Policy Range | Within Range |
|-------------------|---------|--------|---------------|--------------|
| U.S. Equity | 30.6% | 30.0% | 25.0% - 35.0% | Yes |
| Global Equity | 23.9% | 24.0% | 19.0% - 29.0% | Yes |
| Non-U.S. Equity | 13.8% | 14.0% | 9.0% - 19.0% | Yes |
| Real Estate | 7.1% | 7.0% | 2.0% - 12.0% | Yes |
| Defensive Equity | 5.1% | 5.0% | 0.0% - 10.0% | Yes |
| U.S. Fixed Income | 18.2% | 18.0% | 13.0% - 23.0% | Yes |
| Cash Equivalent | 1.5% | 2.0% | 0.0% - 5.0% | Yes |
| Total | 100.0% | 100.0% | | |

Warrington Township Non-Uniform Pension Plan

Portfolio Summary

As of December 31, 2021

Summary of Cash Flows

| | Fourth Quarter | One Year | Three Years | Five Years | Seven Years | Since 11/1/14 |
|------------------------|----------------|-------------|--------------|--------------|--------------|------------------|
| Beginning Market Value | \$7,532,446 | \$7,183,808 | \$5,350,731 | \$5,182,348 | \$5,029,696 | \$5,013,056 |
| Contributions | \$197,643 | \$218,763 | \$1,005,732 | \$1,159,427 | \$1,475,261 | \$1,488,841 |
| Withdrawals | -\$102,605 | -\$362,785 | -\$1,054,716 | -\$1,661,234 | -\$2,194,193 | -\$2,229,100 |
| Net Cash Flow | \$95,038 | -\$144,022 | -\$48,984 | -\$501,808 | -\$718,931 | -\$740,259 |
| Net Investment Change | \$366,698 | \$954,396 | \$2,692,435 | \$3,313,641 | \$3,683,418 | \$3,721,385 |
| Ending Market Value | \$7,994,182 | \$7,994,182 | \$7,994,182 | \$7,994,182 | \$7,994,182 | \$7,994,182 |



Total Fund Composite Policy Index

Asset Allocation vs. Target

| | Current | Policy | Policy Range | Within Range |
|-------------------|---------|--------|---------------|--------------|
| U.S. Equity | 28.2% | 28.0% | 23.0% - 33.0% | Yes |
| Global Equity | 24.1% | 24.0% | 19.0% - 29.0% | Yes |
| Non-U.S. Equity | 10.7% | 11.0% | 6.0% - 16.0% | Yes |
| Real Estate | 7.8% | 7.0% | 2.0% - 12.0% | Yes |
| U.S. Fixed Income | 28.0% | 28.0% | 23.0% - 33.0% | Yes |
| Cash Equivalent | 1.1% | 2.0% | 0.0% - 5.0% | Yes |
| Total | 100.0% | 100.0% | | |

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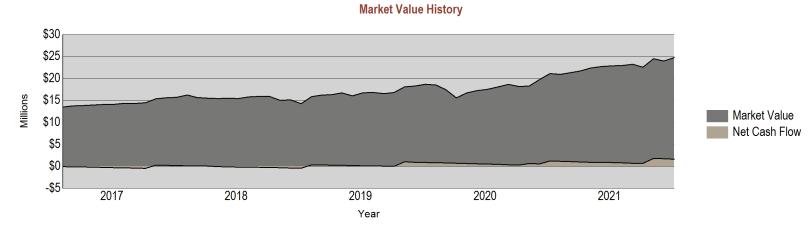
Warrington Township

Police Pension Plan



Market Value Summary

As of December 31, 2021

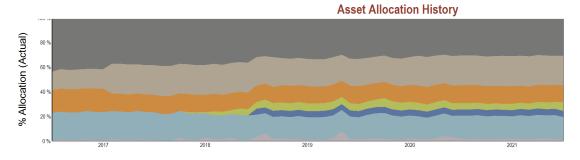


Cash Flow Summary by Manager From October 01, 2021 to December 31, 2021

| | Beginning Market Value | Net Cash Flow | Net Investment Change | Ending Market Value |
|---|---------------------------|---------------|--------------------------|------------------------|
| Fidelity 500 Index Fund | \$5,232,519 | \$90,000 | \$587,023 | \$5,909,542 |
| Eaton Vance Atlanta SMID | \$733,976 | \$0 | \$71,545 | \$805,520 |
| Vanguard Small-Cap Value | \$779,033 | \$30,000 | \$49,843 | \$858,877 |
| Dodge & Cox Global | \$1,358,083 | \$50,000 | \$43,493 | \$1,451,577 |
| AB Global Core Equity Portfolio | \$1,362,824 | \$50,000 | \$78,416 | \$1,491,240 |
| MFS Low Volatility Global Equity | \$1,397,061 | \$0 | \$91,611 | \$1,488,672 |
| Artisan Global Opportunities | \$1,360,855 | \$50,000 | \$64,180 | \$1,475,035 |
| Hartford Schroder Int'l Multi-Cap Value | \$939,574 | \$75,000 | \$27,876 | \$1,042,450 |
| Fidelity Total Int'l Index | \$1,296,125 | \$125,000 | \$24,312 | \$1,445,437 |
| Fidelity Emerging Markets Index Fund | \$859,131 | \$75,000 | -\$14,135 | \$919,996 |
| Deutsche RREEF America REIT II | \$1,228,702 | \$375,000 | \$143,979 | \$1,747,681 |
| Parametric Volatility Risk Premium- Defensive | \$1,160,073 | -\$585,000 | \$52,485 | \$627,558 |
| NB U.S. Equity Index PutWrite Strategy Fund | \$0 | \$610,000 | \$12,787 | \$622,787 |
| Fidelity Interm. Treasury Bond Index | \$1,873,281 | \$20,000 | -\$2,880 | \$1,890,402 |
| Lord Abbett Short Duration Income | \$1,135,023 | \$60,000 | -\$3,913 | \$1,191,111 |
| Vanguard Short-Term Corporate Bond | \$1,249,065 | \$70,000 | -\$8,476 | \$1,310,589 |
| Chartwell Short Duration High Yield | \$110,210 | \$0 | \$293 | \$110,503 |
| First American Gov't Obligations | \$489,396 | -\$126,308 | \$24 | \$363,112 |
| Total | \$22,564,931 | \$968,692 | \$1,218,466 | \$24,752,089 |

Asset Allocation Summary

As of December 31, 2021

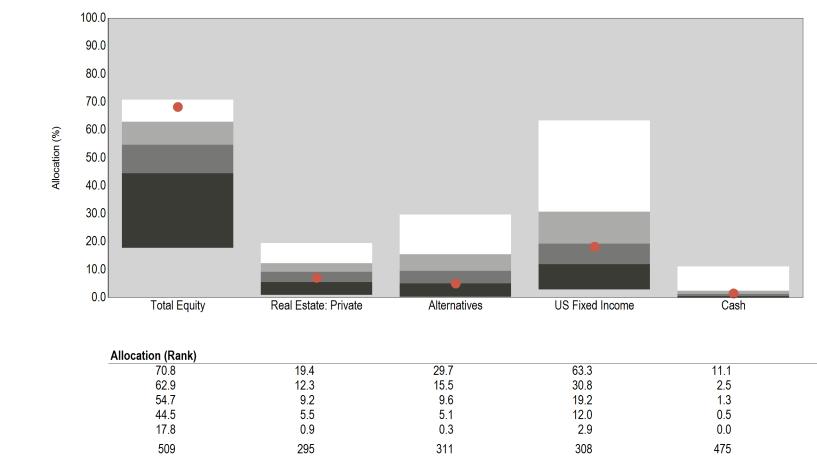




| | Market Value | % of Portfolio | Policy % | Policy Difference |
|---|--------------|----------------|----------|-------------------|
| Total Equity Composite | 16,888,347 | 68.2 | 68.0 | 56,926 |
| U.S. Equity Composite | 7,573,939 | 30.6 | 30.0 | 148,312 |
| Fidelity 500 Index Fund | 5,909,542 | 23.9 | 23.5 | 92,801 |
| Eaton Vance Atlanta SMID | 805,520 | 3.3 | 3.0 | 62,958 |
| Vanguard Small-Cap Value | 858,877 | 3.5 | 3.5 | -7,447 |
| Global Equity Composite | 5,906,525 | 23.9 | 24.0 | -33,977 |
| Dodge & Cox Global | 1,451,577 | 5.9 | 6.0 | -33,549 |
| AB Global Core Equity Portfolio | 1,491,240 | 6.0 | 6.0 | 6,115 |
| MFS Low Volatility Global Equity | 1,488,672 | 6.0 | 6.0 | 3,547 |
| Artisan Global Opportunities | 1,475,035 | 6.0 | 6.0 | -10,090 |
| Non-U.S. Equity Composite | 3,407,883 | 13.8 | 14.0 | -57,409 |
| Hartford Schroder Int'l Multi-Cap Value | 1,042,450 | 4.2 | 4.0 | 52,367 |
| Fidelity Total Int'l Index | 1,445,437 | 5.8 | 5.5 | 84,072 |
| Fidelity Emerging Markets Index Fund | 919,996 | 3.7 | 4.5 | -193,848 |
| Real Estate Composite | 1,747,681 | 7.1 | 7.0 | 15,034 |
| Deutsche RREEF America REIT II | 1,747,681 | 7.1 | 7.0 | 15,034 |
| Defensive Equity Composite | 1,250,345 | 5.1 | 5.0 | 12,740 |
| Parametric Volatility Risk Premium- Defensive | 627,558 | 2.5 | 2.5 | 8,755 |
| NB U.S. Equity Index PutWrite Strategy Fund | 622,787 | 2.5 | 2.5 | 3,985 |
| U.S. Fixed Income Composite | 4,502,605 | 18.2 | 18.0 | 47,229 |
| Fidelity Interm. Treasury Bond Index | 1,890,402 | 7.6 | 8.0 | -89,765 |
| Lord Abbett Short Duration Income | 1,191,111 | 4.8 | 4.5 | 77,267 |
| Vanguard Short-Term Corporate Bond | 1,310,589 | 5.3 | 5.0 | 72,984 |
| Chartwell Short Duration High Yield | 110,503 | 0.4 | 0.5 | -13,257 |
| Cash Equivalents Composite | 363,112 | 1.5 | 2.0 | -131,930 |
| First American Gov't Obligations | 363,112 | 1.5 | 2.0 | -131,930 |

Asset Allocation Summary

As of December 31, 2021



Total Plan Allocation vs. InvMetrics All DB Net

5th Percentile

25th Percentile

95th Percentile

of Portfolios

• Total Fund Composite

68.2

(9)

7.1

(69)

5.1

(76)

18.2

(53)

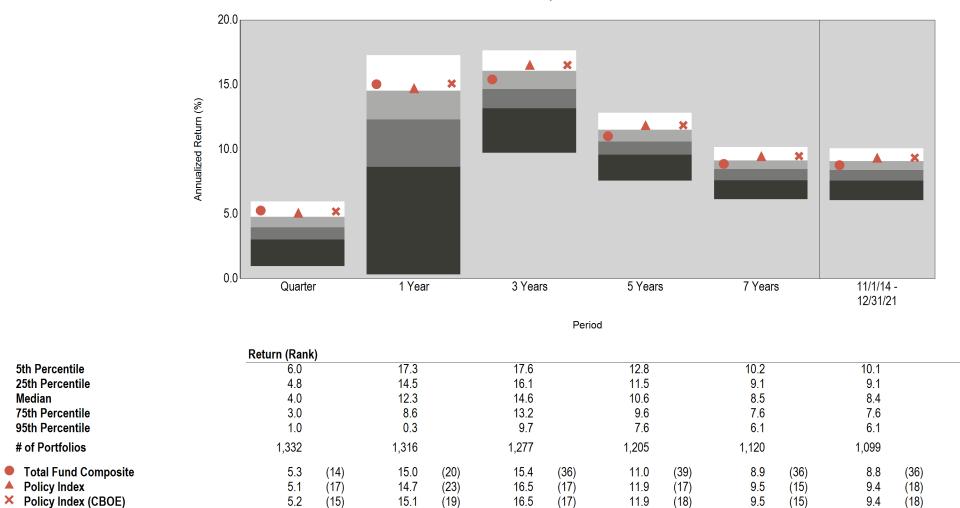
1.5

Median 75th Percentile

(46)

Annualized Performance (Net)

As of December 31, 2021

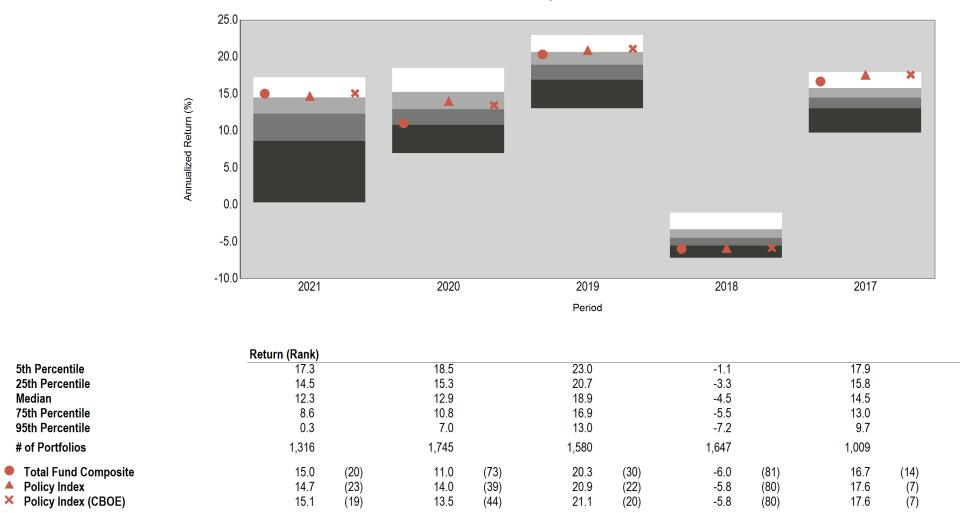




Median

Calendar Year Performance (Net)

As of December 31, 2021





5th Percentile

Median

RISK RETURN STATISTICS January 01, 2017 Through December 31, 2021

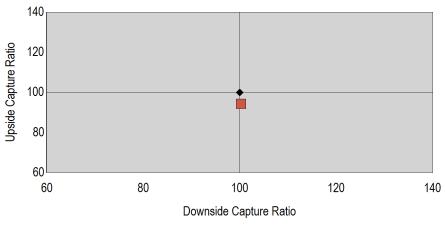
| | Total Fund Composite | Policy Index |
|--|----------------------|--------------|
| RETURN SUMMARY STATISTICS | | |
| Number of Periods | 60 | 60 |
| Maximum Return | 8.58 | 9.00 |
| Minimum Return | -10.42 | -10.05 |
| Annualized Return | 11.02 | 11.87 |
| Total Return | 68.66 | 75.24 |
| Annualized Excess Return Over Risk Free | 9.94 | 10.79 |
| Annualized Excess Return | -0.85 | 0.00 |
| RISK SUMMARY STATISTICS | | |
| Beta | 0.98 | 1.00 |
| Upside Deviation | 6.24 | 6.49 |
| Downside Deviation | 9.45 | 9.37 |
| Downside Deviation | 9.45 | ç |

RISK/RETURN SUMMARY STATISTICS

| Annualized Standard Deviation | 10.69 | 10.86 |
|----------------------------------|-------|-------|
| Alpha | -0.05 | 0.00 |
| Sharpe Ratio | 0.93 | 0.99 |
| Excess Return Over Market / Risk | -0.08 | 0.00 |
| Tracking Error | 0.91 | 0.00 |
| Information Ratio | -0.94 | |
| CORRELATION STATISTICS | | |
| R-Squared | 0.99 | 1.00 |
| Correlation | 1.00 | 1.00 |

Upside Capture Ratio vs. Downside Capture Ratio





Total Fund Composite
 Policy Index

Quarterly Excess Performance Total Fund Composite vs. Policy Index



Quarterly Out/Under Performance, Falling Market

Risk & Statistics Summary

As of December 31, 2021

Marquette Associates

Performance Summary (Net)

| | 3 Mo | 1 Yr | 3 Yrs | 5 Yrs | 7 Yrs | Market Value % of Portfolio | | Policy % | Inception | Inception Date |
|--|------|------|-------|-------|-------|-----------------------------|-------|----------|-----------|-------------------|
| Total Fund Composite | 5.3 | 15.0 | 15.4 | 11.0 | 8.9 | 24,752,089 | 100.0 | 100.0 | 9.0 | Oct-14 |
| Policy Index | 5.1 | 14.7 | 16.5 | 11.9 | 9.5 | | | | 9.5 | Oct-14 |
| InvMetrics All DB Net Rank | 14 | 20 | 36 | 39 | 36 | | | | 34 | Oct-14 |
| Total Equity Composite | 6.8 | 19.6 | 19.6 | 13.8 | 11.0 | 16,888,347 | 68.2 | 68.0 | 10.9 | Nov-14 |
| Total Equity Policy Index | 6.4 | 19.1 | 21.2 | 15.0 | 11.8 | | | | 11.6 | Nov-14 |
| U.S. Equity Composite | 10.7 | 27.7 | 24.1 | 16.4 | 13.7 | 7,573,939 | 30.6 | 30.0 | 13.8 | Nov-14 |
| Russell 3000 | 9.3 | 25.7 | 25.8 | 18.0 | 14.5 | | | | 14.6 | Nov-14 |
| Fidelity 500 Index Fund | 11.0 | 28.7 | | | | 5,909,542 | 23.9 | 23.5 | 35.2 | Jun-20 |
| S&P 500 | 11.0 | 28.7 | | | | | | | 35.2 | Jun-20 |
| Large Blend MStar MF Rank | 25 | 23 | | | | | | | 33 | Jun-20 |
| Eaton Vance Atlanta SMID | 9.7 | 22.3 | 22.3 | 16.7 | 14.9 | 805,520 | 3.3 | 3.0 | 14.6 | Nov-14 |
| Russell 2500 | 3.8 | 18.2 | 21.9 | 13.8 | 11.7 | | | | 11.8 | Nov-14 |
| SMID Blend MStar MF Rank | 7 | 62 | 21 | 1 | 1 | | | | 1 | Nov-14 |
| Vanguard Small-Cap Value | 6.4 | 28.1 | 18.5 | 10.3 | | 858,877 | 3.5 | 3.5 | 10.1 | Apr-15 |
| CRSP US Small Cap Value TR USD | 6.4 | 28.1 | 18.5 | 10.3 | | | | | 10.1 | Apr-15 |
| Small Value MStar MF Rank | 51 | 72 | 55 | 30 | | | | | 34 | Apr-15 |
| Global Equity Composite | 5.1 | 17.4 | 19.4 | 14.2 | 10.7 | 5,906,525 | 23.9 | 24.0 | 10.6 | Nov-14 |
| Global Equity Policy | 6.1 | 18.2 | 20.2 | 14.2 | 10.7 | | | | 10.4 | Nov-14 |
| Dodge & Cox Global | 3.3 | 20.8 | 16.6 | 11.0 | 8.9 | 1,451,577 | 5.9 | 6.0 | 8.3 | Nov-14 |
| MSCI ACWI Value NR USD | 6.3 | 19.6 | 12.9 | 8.7 | 7.0 | | | | 6.6 | Nov-14 |
| World Large Stock Value Mstar MF Rank | 93 | 34 | 21 | 30 | 21 | | | | 29 | Nov-14 |
| AB Global Core Equity Portfolio | 5.7 | 18.1 | | | | 1,491,240 | 6.0 | 6.0 | 23.9 | Jul-20 |
| MSCI ACWI | 6.7 | 18.5 | | | | | | | 26.6 | Jul-20 |
| World Large Stock Mstar MF Rank | 60 | 47 | | | | | | | 66 | Jul-20 |
| MFS Low Volatility Global Equity | 6.6 | 16.9 | 14.2 | 11.5 | 9.2 | 1,488,672 | 6.0 | 6.0 | 8.9 | Nov-14 |
| MSCI ACWI Minimum Volatility Index | 6.3 | 13.9 | 12.3 | 10.5 | 8.9 | | | | 8.7 | Nov-14 |
| World Large Stock Mstar MF Rank | 46 | 60 | 87 | 73 | 68 | | | | 66 | Nov-14 |
| Artisan Global Opportunities | 4.8 | 13.9 | 29.5 | 21.0 | | 1,475,035 | 6.0 | 6.0 | 16.3 | Jun-15 |
| MSCI ACWI Growth | 6.9 | 17.1 | 27.6 | 19.9 | | | | | 15.0 | Jun-15 |
| World Large Stock Growth Mstar MF Rank | 52 | 61 | 14 | 24 | | | | | 24 | Jun-15 |

Performance Summary (Net)

| | 3 Mo | 1 Yr | 3 Yrs | 5 Yrs | 7 Yrs | Market Value % of F | Portfolio | Policy % | Inception | Inception Date |
|--|------|------|-------|-------|-------|---------------------|-----------|----------|-----------|-------------------|
| Non-U.S. Equity Composite | 1.4 | 6.4 | 10.8 | 7.8 | 4.8 | 3,407,883 | 13.8 | 14.0 | 4.2 | Nov-14 |
| Non-U.S. Equity Policy Index | 1.6 | 8.5 | 13.6 | 9.8 | 6.7 | | | | 6.1 | Nov-14 |
| Hartford Schroder Int'l Multi-Cap Value | 3.0 | 13.9 | 10.9 | 7.3 | | 1,042,450 | 4.2 | 4.0 | 6.8 | Jul-16 |
| MSCI ACWI ex USA Value | 1.2 | 10.5 | 8.2 | 6.0 | | | | | 6.7 | Jul-16 |
| Foreign Large Value MStar MF Rank | 34 | 29 | 49 | 38 | | | | | 58 | Jul-16 |
| Fidelity Total Int'l Index | 2.0 | 8.5 | | | | 1,445,437 | 5.8 | 5.5 | 8.5 | Dec-20 |
| MSCI ACWI ex USA IMI | 1.6 | 8.5 | | | | | | | 8.5 | Dec-20 |
| Foreign Large Blend MStar MF Rank | 75 | 64 | | | | | | | 64 | Dec-20 |
| Fidelity Emerging Markets Index Fund | -1.3 | | | | | 919,996 | 3.7 | 4.5 | -6.7 | Feb-21 |
| MSCI Emerging Markets | -1.3 | | | | | | | | -6.2 | Feb-21 |
| Diversified Emerging Mkts MStar MF Rank | 52 | | | | | | | | 57 | Feb-21 |
| Real Estate Composite | | | | | | 1,747,681 | 7.1 | 7.0 | | |
| Deutsche RREEF America REIT II | 10.6 | 23.9 | 10.0 | | | 1,747,681 | 7.1 | 7.0 | 9.6 | Apr-18 |
| NFI-ODCE | 7.7 | 21.1 | 8.2 | | | | | | 8.0 | Apr-18 |
| InvMetrics Trust Funds Real Estate Priv Net Rank | 9 | 14 | 14 | | | | | | 16 | Apr-18 |
| Defensive Equity Composite | 5.6 | 17.4 | 12.5 | | | 1,250,345 | 5.1 | 5.0 | 12.5 | Jan-19 |
| 50% S&P 500/50% 91 Day T-Bill | 5.5 | 13.7 | 13.2 | | | | | | 13.2 | Jan-19 |
| Parametric Volatility Risk Premium- Defensive | 6.1 | 18.0 | 12.7 | | | 627,558 | 2.5 | 2.5 | 12.7 | Dec-18 |
| 50% S&P 500/50% 91 Day T-Bill | 5.5 | 13.7 | 13.2 | | | | | | 13.2 | Dec-18 |
| CBOE S&P 500 Covered Combo Index | 7.5 | 20.8 | 13.0 | | | | | | 13.0 | Dec-18 |
| NB U.S. Equity Index PutWrite Strategy Fund | | | | | | 622,787 | 2.5 | 2.5 | 1.7 | Oct-21 |
| CBOE Put Write Index | | | | | | | | | 2.3 | Oct-21 |

Performance Summary (Net)

| | 3 Mo | 1 Yr | 3 Yrs | 5 Yrs | 7 Yrs | Market Value % of P | ortfolio | Policy % | Inception | Inception Date |
|--|------|------|-------|-------|-------|---------------------|----------|----------|-----------|-------------------|
| U.S. Fixed Income Composite | -0.4 | -1.2 | 4.3 | 3.2 | 2.7 | 4,502,605 | 18.2 | 18.0 | 2.7 | Nov-14 |
| Bloomberg US Govt/Credit Int TR | -0.6 | -1.4 | 3.9 | 2.9 | 2.5 | | | | 2.5 | Nov-14 |
| Fidelity Interm. Treasury Bond Index | -0.2 | -3.0 | 4.3 | 3.3 | | 1,890,402 | 7.6 | 8.0 | 2.5 | Apr-15 |
| Bloomberg US Treasury 5-10 Yr TR | -0.2 | -3.0 | 4.4 | 3.3 | | | | | 2.6 | Apr-15 |
| Intermediate Government MStar MF Rank | 20 | 94 | 2 | 2 | | | | | 4 | Apr-15 |
| Lord Abbett Short Duration Income | -0.3 | 1.2 | 3.4 | 2.9 | | 1,191,111 | 4.8 | 4.5 | 2.6 | Apr-15 |
| ICE BofA 1-3 Yrs US Corporate TR | -0.5 | 0.0 | 3.2 | 2.6 | | | | | 2.3 | Apr-15 |
| Short-Term Bond MStar MF Rank | 24 | 20 | 34 | 26 | | | | | 23 | Apr-15 |
| Vanguard Short-Term Corporate Bond | -0.7 | -0.4 | | | | 1,310,589 | 5.3 | 5.0 | 1.0 | Jun-20 |
| BBgBarc U.S. 1-5 Year Corp. Bond Index | -0.7 | -0.5 | | | | | | | 1.1 | Jun-20 |
| Short-Term Bond MStar MF Rank | 77 | 70 | | | | | | | 61 | Jun-20 |
| Chartwell Short Duration High Yield | 0.3 | 2.4 | | | | 110,503 | 0.4 | 0.5 | 5.1 | Jun-20 |
| BofA Merrill Lynch 1-3 Yrs High Yield BB | 0.5 | 3.2 | | | | | | | 6.6 | Jun-20 |
| eV US High Yield Fixed Inc - Short Duration Net Rank | 95 | 98 | | | | | | | 94 | Jun-20 |
| Cash Equivalents Composite | | | | | | 363,112 | 1.5 | 2.0 | | |
| First American Gov't Obligations | | | | | | 363,112 | 1.5 | | | |

| Warrington Township Police Pension Plan |
|---|
|---|

Policy Index History

As of December 31, 2021

Policy Index History

| Total Fund Compo | osite | |
|------------------|----------------|---|
| 1/1/2019 | Present | 43% Russell 3000 / 25% MSCI ACWI ex USA IMI / 18% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR / 7% NFI-ODCE / 5% 50% S&P 500/50% 91 Day T-Bill |
| 10/1/2018 | 12/31/2018 | 48% Russell 3000 / 26% MSCI ACWI ex USA IMI / 19% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR / 5% NFI-ODCE |
| 7/1/2018 | 9/30/2018 | 49% Russell 3000 / 26% MSCI ACWI ex USA / 20% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR / 3% NFI-ODCE |
| 8/1/2016 | 6/30/2018 | 49% Russell 3000 / 26% MSCI ACWI ex USA / 23% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR |
| 11/1/2014 | 7/31/2016 | 50% Russell 3000 / 20% MSCI ACWI ex USA / 28% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR |
| Total Equity Co | mposite | |
| 1/1/2019 | Present | 63% Russell 3000 / 37% MSCI ACWI ex USA IMI |
| 10/1/2018 | 12/31/2018 | 65% Russell 3000 / 35% MSCI ACWI ex USA IMI |
| 8/1/2016 | 9/30/2018 | 65% Russell 3000 / 35% MSCI ACWI ex USA |
| 11/1/2014 | 7/31/2016 | 71% Russell 3000 / 29% MSCI ACWI ex USA |
| U.S. Equity C | omposite | |
| 11/1/2014 | Present | Russell 3000 |
| Global Equity | Composite | |
| 10/1/2018 | Present | MSCI ACWI IMI Net USD |
| 11/1/2014 | 9/30/2018 | MSCI ACWI |
| Non-U.S. Equ | uity Composite | |
| 10/1/2018 | Present | MSCI ACWI ex USA IMI |
| 11/1/2014 | 9/30/2018 | MSCI ACWI ex USA |
| Real Estate Co | mposite | |
| 4/1/2018 | Present | NFI-ODCE |
| Defensive Equit | y Composite | |
| 1/1/2019 | Present | 50% 91 Day T-Bills / 50% S&P 500 |
| U.S. Fixed Inco | me Composite | |
| 11/1/2014 | Present | Bloomberg US Govt/Credit Int TR |
| Cash Equivalen | ts Composite | |
| 11/1/2014 | Present | ICE BofA 91 Days T-Bills TR |

Fee Summary

| Account | Fee Schedule | % of Portfolio | Estimated Annual Fee (\$) | Estimated Annual Fee (%) |
|---|-----------------|----------------|------------------------------|-----------------------------|
| Fidelity 500 Index Fund | 0.02% of Assets | 23.9% | \$886 | 0.02% |
| Eaton Vance Atlanta SMID | 0.82% of Assets | 3.3% | \$6,605 | 0.82% |
| Vanguard Small-Cap Value | 0.07% of Assets | 3.5% | \$601 | 0.07% |
| Dodge & Cox Global | 0.62% of Assets | 5.9% | \$9,000 | 0.62% |
| AB Global Core Equity Portfolio | 0.90% of Assets | 6.0% | \$13,421 | 0.90% |
| MFS Low Volatility Global Equity | 0.68% of Assets | 6.0% | \$10,123 | 0.68% |
| Artisan Global Opportunities | 0.91% of Assets | 6.0% | \$13,423 | 0.91% |
| Hartford Schroder Int'l Multi-Cap Value | 0.77% of Assets | 4.2% | \$8,027 | 0.77% |
| Fidelity Total Int'l Index | 0.06% of Assets | 5.8% | \$867 | 0.06% |
| Fidelity Emerging Markets Index Fund | 0.08% of Assets | 3.7% | \$690 | 0.08% |
| Deutsche RREEF America REIT II | 0.95% of Assets | 7.1% | \$16,603 | 0.95% |
| Parametric Volatility Risk Premium- Defensive | 0.47% of Assets | 2.5% | \$2,950 | 0.47% |
| NB U.S. Equity Index PutWrite Strategy Fund | 0.56% of Assets | 2.5% | \$3,488 | 0.56% |
| Fidelity Interm. Treasury Bond Index | 0.03% of Assets | 7.6% | \$567 | 0.03% |
| Lord Abbett Short Duration Income | 0.34% of Assets | 4.8% | \$4,050 | 0.34% |
| Vanguard Short-Term Corporate Bond | 0.07% of Assets | 5.3% | \$917 | 0.07% |
| Chartwell Short Duration High Yield | 0.49% of Assets | 0.4% | \$541 | 0.49% |
| First American Gov't Obligations | 0.18% of Assets | 1.5% | \$654 | 0.18% |
| Investment Management Fee | | 100.0% | \$93,413 | 0.38% |

RISK RETURN STATISTICS January 01, 2017 Through December 31, 2021

Total Equity Composite Total Equity Policy Index

60

12.66

-14.25 14.96

100.77

13.88

0.00

1.00

9.14

13.14

1.00

60

12.25

-14.81

13.78

90.66

12.70

-1.18

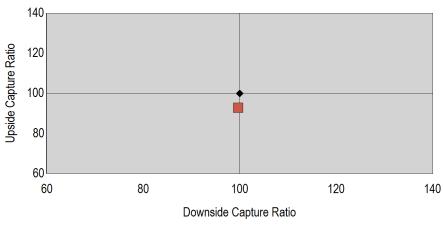
0.98

8.83

13.40

1.00

Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending December 31, 2021



Total Equity Composite
 Total Equity Policy Index

RISK/RETURN SUMMARY STATISTICS

RETURN SUMMARY STATISTICS

Annualized Excess Return Over Risk

Annualized Excess Return

RISK SUMMARY STATISTICS

Number of Periods

Maximum Return

Minimum Return

Total Return

Free

Beta

Annualized Return

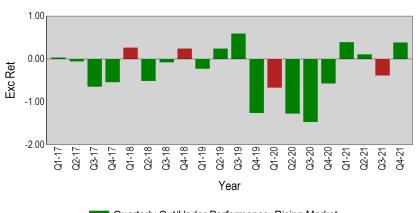
Upside Deviation

Correlation

Downside Deviation

| Annualized Standard Deviation | 15.01 | 15.26 |
|----------------------------------|-------|-------|
| | | |
| Alpha | -0.07 | 0.00 |
| Sharpe Ratio | 0.85 | 0.91 |
| Excess Return Over Market / Risk | -0.08 | 0.00 |
| Tracking Error | 1.18 | 0.00 |
| Information Ratio | -1.00 | |
| CORRELATION STATISTICS | | |
| R-Squared | 0.99 | 1.00 |

Quarterly Excess Performance Total Equity Composite vs. Total Equity Policy Index



Quarterly Out/Under Performance, Rising Market Quarterly Out/Under Performance, Falling Market

Total Equity Composite

Total Equity Composite

As of December 31, 2021

Characteristics

.

| | Portfolio | MSCI ACWI IMI Net USD |
|---------------------------------|-----------|--------------------------|
| Number of Holdings | 6,193 | 9,292 |
| Weighted Avg. Market Cap. (\$B) | 345.7 | 380.3 |
| Median Market Cap. (\$B) | 5.0 | 2.3 |
| Price To Earnings | 19.5 | 20.2 |
| Price To Book | 3.6 | 3.6 |
| Price To Sales | 2.2 | 2.3 |
| Return on Equity (%) | 19.8 | 18.9 |
| Yield (%) | 1.7 | 1.8 |

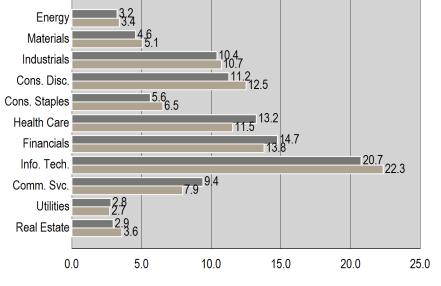
Top Holdings

| MICROSOFT CORP | 3.3% |
|--------------------|-------|
| APPLE INC | 2.5% |
| ALPHABET INC | 1.4% |
| AMAZON.COM INC | 1.3% |
| ALPHABET INC | 1.2% |
| META PLATFORMS INC | 1.2% |
| TESLA INC | 0.8% |
| NVIDIA CORPORATION | 0.7% |
| JOHNSON & JOHNSON | 0.6% |
| COMCAST CORP | 0.6% |
| Total | 13.6% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|------------------------|--------------|------------|--------------|--------------|
| Total Equity Composite | 12.4% | 17.2% | 68.0% | 2.4% |
| MSCI ACWI IMI Net USD | 16.3% | 15.2% | 68.5% | 0.0% |
| Weight Over/Under | -3.9% | 1.9% | -0.5% | 2.4% |





Region Allocation Summary

|) | Region | % of Total | % of Bench | % Diff |
|---|------------------------|---------------|---------------|--------|
|) | North America ex U.S. | 2.5% | 2.9% | -0.4% |
| | United States | 61.5% | 60.3% | 1.3% |
| | Europe Ex U.K. | 12.7% | 12.6% | 0.1% |
| I | United Kingdom | 4.1% | 3.9% | 0.2% |
| | Pacific Basin Ex Japan | 3.1% | 3.0% | 0.2% |
|) | Japan | 4.4% | 5.9% | -1.6% |
|) | Emerging Markets | 10.9% | 11.1% | -0.3% |
|) | Other | 0.8% | 0.3% | 0.5% |
| | Total | 100.0% | 100.0% | 0.0% |
| | | | | |

U.S. Equity Composite

As of December 31, 2021

Characteristics

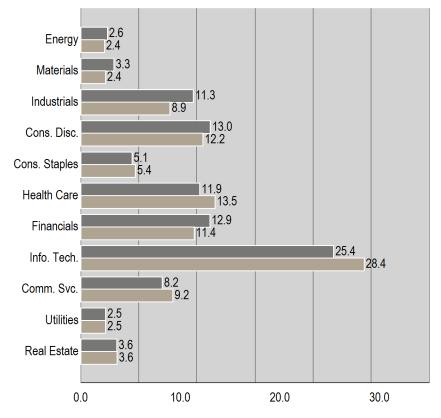
| | Portfolio | Russell 3000 |
|---------------------------------|-----------|--------------|
| Number of Holdings | 1,471 | 3,065 |
| Weighted Avg. Market Cap. (\$B) | 527.2 | 568.6 |
| Median Market Cap. (\$B) | 7.2 | 2.8 |
| Price To Earnings | 23.9 | 24.9 |
| Price To Book | 4.2 | 4.5 |
| Price To Sales | 3.0 | 3.4 |
| Return on Equity (%) | 25.8 | 22.9 |
| Yield (%) | 1.3 | 1.3 |

| Top Holdings | |
|------------------------|-------|
| APPLE INC | 5.4% |
| MICROSOFT CORP | 4.9% |
| AMAZON.COM INC | 2.8% |
| ALPHABET INC | 1.7% |
| TESLA INC | 1.7% |
| ALPHABET INC | 1.6% |
| META PLATFORMS INC | 1.5% |
| NVIDIA CORPORATION | 1.4% |
| BERKSHIRE HATHAWAY INC | 1.1% |
| UNITEDHEALTH GROUP INC | 0.9% |
| Total | 23.0% |

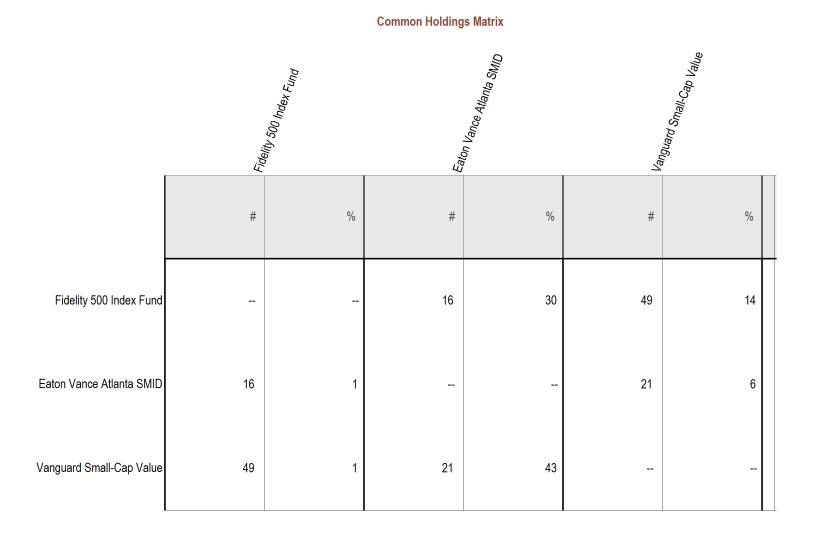
Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|-----------------------|--------------|------------|--------------|--------------|
| U.S. Equity Composite | 4.2% | 29.8% | 65.3% | 0.7% |
| Russell 3000 | 5.6% | 23.1% | 71.2% | 0.0% |
| Weight Over/Under | -1.4% | 6.6% | -5.9% | 0.7% |

Sector Allocation (%) vs Russell 3000



U.S. Equity Composite



Global Equity Composite

As of December 31, 2021

Characteristics

.

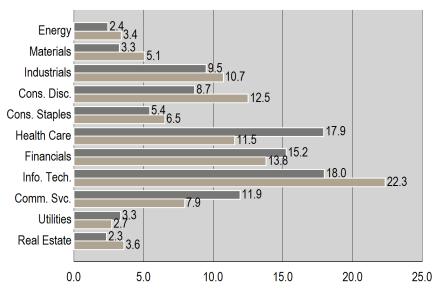
| | Portfolio | MSCI ACWI IMI Net USD |
|---------------------------------|-----------|--------------------------|
| Number of Holdings | 270 | 9,292 |
| Weighted Avg. Market Cap. (\$B) | 249.9 | 380.3 |
| Median Market Cap. (\$B) | 48.3 | 2.3 |
| Price To Earnings | 20.9 | 20.2 |
| Price To Book | 3.6 | 3.6 |
| Price To Sales | 2.2 | 2.3 |
| Return on Equity (%) | 19.3 | 18.9 |
| Yield (%) | 1.5 | 1.8 |

Top Holdings

| MICROSOFT CORP | 3.1% |
|------------------------------|-------|
| ALPHABET INC | 2.1% |
| TECHTRONIC INDUSTRIES CO LTD | 1.5% |
| ROCHE HOLDING AG | 1.4% |
| ALPHABET INC | 1.3% |
| META PLATFORMS INC | 1.3% |
| COMCAST CORP | 1.3% |
| UBS GROUP AG | 1.2% |
| ADVANCED MICRO DEVICES INC | 1.1% |
| VEEVA SYSTEMS INC | 1.0% |
| Total | 15.3% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|-------------------------|--------------|------------|--------------|--------------|
| Global Equity Composite | 4.3% | 15.3% | 76.5% | 3.8% |
| MSCI ACWI IMI Net USD | 16.3% | 15.2% | 68.5% | 0.0% |
| Weight Over/Under | -12.0% | 0.1% | 8.0% | 3.8% |



Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 4.0% | 2.9% | 1.0% |
| United States | 50.1% | 60.3% | -10.2% |
| Europe Ex U.K. | 21.5% | 12.6% | 8.9% |
| United Kingdom | 6.2% | 3.9% | 2.3% |
| Pacific Basin Ex Japan | 4.9% | 3.0% | 1.9% |
| Japan | 6.0% | 5.9% | 0.0% |
| Emerging Markets | 6.4% | 11.1% | -4.7% |
| Other | 1.0% | 0.3% | 0.7% |
| Total | 100.0% | 100.0% | 0.0% |

Sector Allocation (%) vs MSCI ACWI IMI Net USD

Global Equity Composite

As of December 31, 2021

MFS Low Volatility Global Equity AB Giobal Core Equity Portolio Artisan Global Opportunities Dodge & Cox Global # % # % # % # % Dodge & Cox Global 27 8 8 8 3 7 ---AB Global Core Equity Portfolio 8 14 6 6 2 1 ------MFS Low Volatility Global Equity 18 21 8 6 3 6 ---Artisan Global Opportunities 3 7 3 7 4 1 ----

Common Holdings Matrix

Non-U.S. Equity Composite

As of December 31, 2021

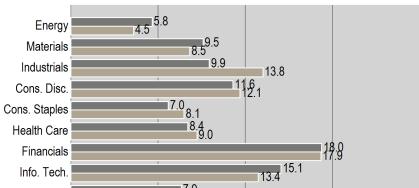
Characteristics

| | Portfolio | MSCI ACWI ex USA IMI |
|---------------------------------|-----------|-------------------------|
| Number of Holdings | 4,657 | 6,706 |
| Weighted Avg. Market Cap. (\$B) | 88.5 | 85.0 |
| Median Market Cap. (\$B) | 4.4 | 2.0 |
| Price To Earnings | 12.8 | 15.3 |
| Price To Book | 2.6 | 2.7 |
| Price To Sales | 1.3 | 1.5 |
| Return on Equity (%) | 14.5 | 14.0 |
| Yield (%) | 2.8 | 2.6 |

| Top Holdings | |
|---|-------|
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD | 3.0% |
| SAMSUNG ELECTRONICS CO LTD | 1.7% |
| TENCENT HOLDINGS LTD | 1.6% |
| ALIBABA GROUP HOLDING LTD | 1.1% |
| ROCHE HOLDING AG | 0.8% |
| ASTRAZENECA PLC | 0.7% |
| NOVARTIS AG | 0.6% |
| UNILEVER PLC | 0.6% |
| MEITUAN DIANPING USD0.00001 A B CLASS ISIN KYG596691041 | 0.6% |
| SANOFI | 0.6% |
| Total | 11.2% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|---------------------------|--------------|------------|--------------|--------------|
| Non-U.S. Equity Composite | 25.1% | 23.8% | 47.2% | 3.8% |
| MSCI ACWI ex USA IMI | 25.8% | 21.2% | 53.0% | 0.0% |
| Weight Over/Under | -0.7% | 2.6% | -5.8% | 3.8% |



Sector Allocation (%) vs MSCI ACWI ex USA IMI

Region Allocation Summary

10.0

15.0

20.0

5.9 **7**.9

2.6 3.1 2.5 3.6

5.0

Info. Tech.

Comm. Svc.

Real Estate

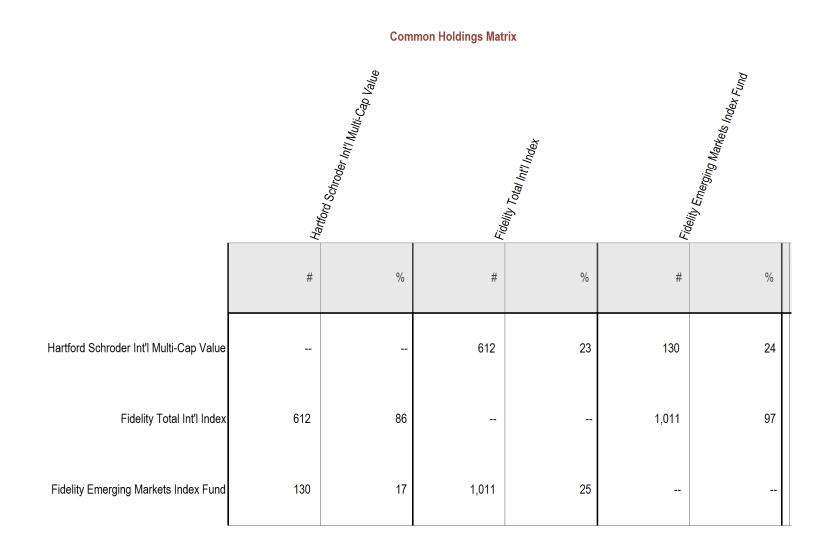
Utilities

0.0

|) | Region | % of Total | % of Bench | % Diff |
|---|------------------------|---------------|---------------|--------|
| , | North America ex U.S. | 5.6% | 7.4% | -1.7% |
| | United States | 0.4% | 0.0% | 0.4% |
| | Europe Ex U.K. | 22.8% | 31.6% | -8.8% |
| I | United Kingdom | 8.0% | 9.7% | -1.8% |
| | Pacific Basin Ex Japan | 7.3% | 7.5% | -0.2% |
|) | Japan | 11.6% | 14.9% | -3.3% |
| | Emerging Markets | 42.5% | 28.0% | 14.4% |
|) | Other | 1.9% | 0.9% | 1.0% |
| | Total | 100.0% | 100.0% | 0.0% |
| | | | | |

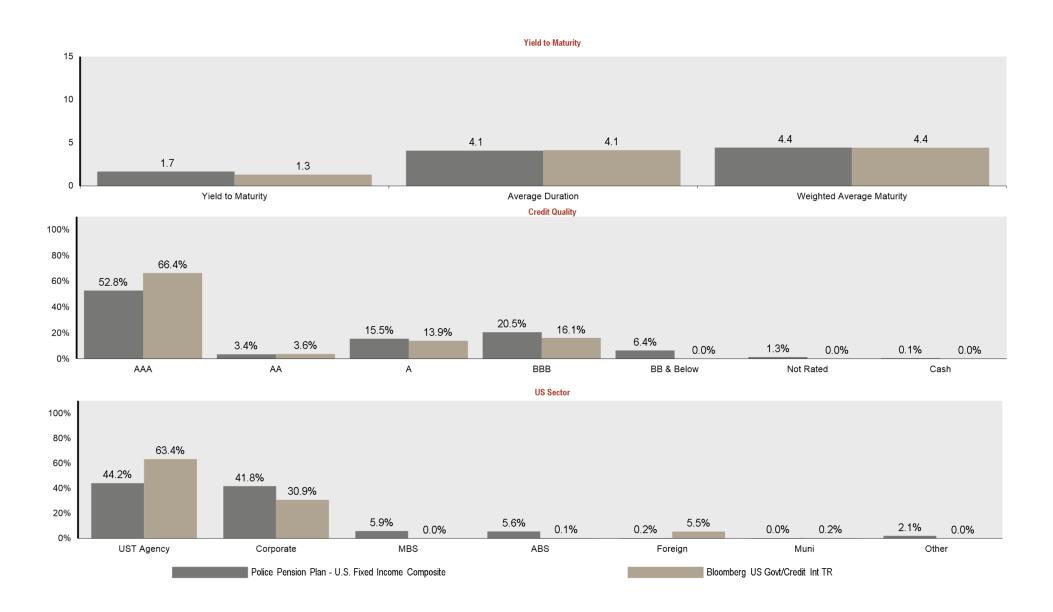
25.0

Non-U.S. Equity Composite



U.S. Fixed Income Composite

As of December 31, 2021



Marquette Associates

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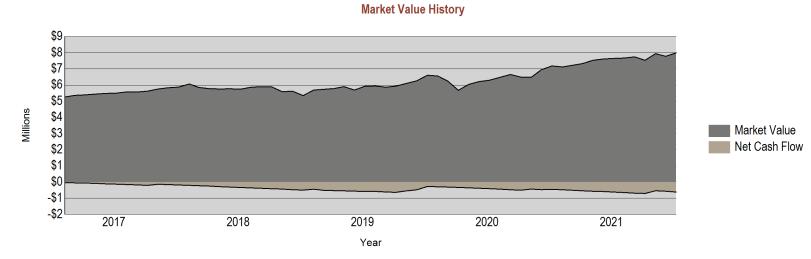
Warrington Township

Non-Uniform Pension Plan



Market Value Summary

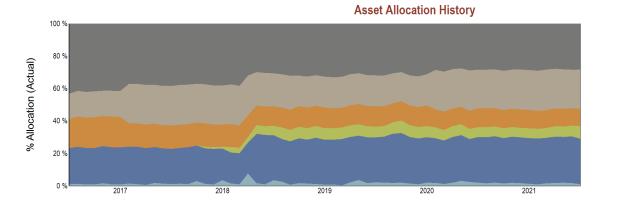
As of December 31, 2021

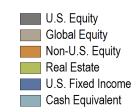


Cash Flow Summary by Manager From October 01, 2021 to December 31, 2021

| | Beginning Market Value | Net Cash Flow | Net Investment Change | Ending Market Value |
|---|---------------------------|---------------|--------------------------|------------------------|
| Fidelity 500 Index Fund | \$1,621,416 | -\$50,000 | \$178,965 | \$1,750,380 |
| Eaton Vance Atlanta SMID | \$185,221 | \$0 | \$18,055 | \$203,276 |
| Vanguard Small-Cap Value | \$283,310 | \$0 | \$18,065 | \$301,375 |
| Dodge & Cox Global | \$466,743 | \$0 | \$15,314 | \$482,057 |
| AB Global Core Equity Portfolio | \$458,788 | \$0 | \$26,356 | \$485,145 |
| MFS Low Volatility Global Equity | \$451,403 | \$0 | \$29,600 | \$481,003 |
| Artisan Global Opportunities | \$459,106 | \$0 | \$21,829 | \$480,935 |
| Hartford Schroder Int'l Multi-Cap Value | \$222,733 | \$25,000 | \$6,614 | \$254,347 |
| Fidelity Total Int'l Index | \$372,029 | \$0 | \$7,461 | \$379,490 |
| Fidelity Emerging Markets Index Fund | \$227,933 | \$0 | -\$2,862 | \$225,071 |
| Deutsche RREEF America REIT II | \$491,481 | \$75,000 | \$54,933 | \$621,413 |
| Fidelity Interm. Treasury Bond Index | \$978,536 | \$60,000 | -\$1,784 | \$1,036,752 |
| Lord Abbett Short Duration Income | \$514,057 | \$15,000 | -\$1,770 | \$527,288 |
| Vanguard Short-Term Corporate Bond | \$619,891 | \$20,000 | -\$4,186 | \$635,705 |
| Chartwell Short Duration High Yield | \$38,432 | \$0 | \$102 | \$38,534 |
| First American Gov't Obligations | \$141,367 | -\$49,962 | \$7 | \$91,412 |
| Total | \$7,532,446 | \$95,038 | \$366,698 | \$7,994,182 |

Asset Allocation Summary

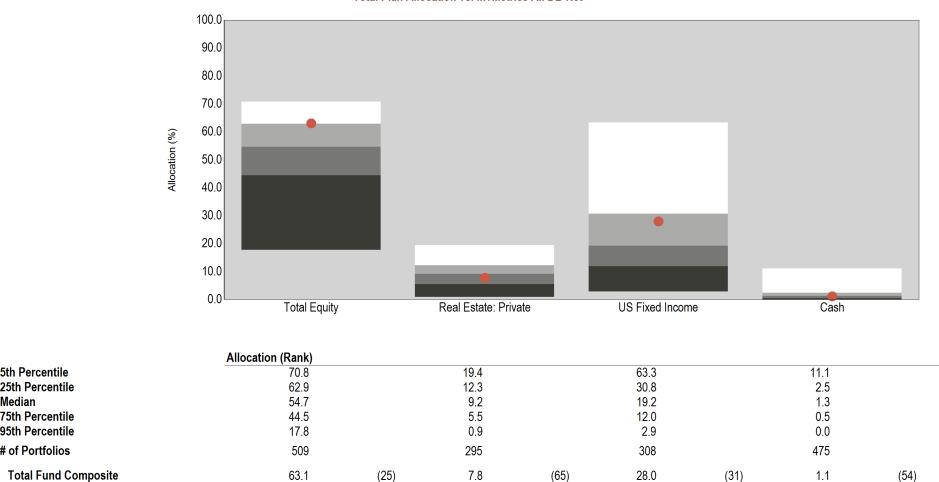




| | Market Value | % of Portfolio | Policy % | Policy Difference |
|---|--------------|----------------|----------|-------------------|
| Total Equity Composite | 5,043,078 | 63.1 | 63.0 | 6,743 |
| U.S. Equity Composite | 2,255,031 | 28.2 | 28.0 | 16,660 |
| Fidelity 500 Index Fund | 1,750,380 | 21.9 | 22.0 | -8,340 |
| Eaton Vance Atlanta SMID | 203,276 | 2.5 | 2.5 | 3,421 |
| Vanguard Small-Cap Value | 301,375 | 3.8 | 3.5 | 21,579 |
| Global Equity Composite | 1,929,140 | 24.1 | 24.0 | 10,536 |
| Dodge & Cox Global | 482,057 | 6.0 | 6.0 | 2,406 |
| AB Global Core Equity Portfolio | 485,145 | 6.1 | 6.0 | 5,494 |
| MFS Low Volatility Global Equity | 481,003 | 6.0 | 6.0 | 1,352 |
| Artisan Global Opportunities | 480,935 | 6.0 | 6.0 | 1,284 |
| Non-U.S. Equity Composite | 858,907 | 10.7 | 11.0 | -20,453 |
| Hartford Schroder Int'l Multi-Cap Value | 254,347 | 3.2 | 3.0 | 14,521 |
| Fidelity Total Int'l Index | 379,490 | 4.7 | 4.5 | 19,752 |
| Fidelity Emerging Markets Index Fund | 225,071 | 2.8 | 3.5 | -54,726 |
| Real Estate Composite | 621,413 | 7.8 | 7.0 | 61,821 |
| Deutsche RREEF America REIT II | 621,413 | 7.8 | 7.0 | 61,821 |
| U.S. Fixed Income Composite | 2,238,279 | 28.0 | 28.0 | -92 |
| Fidelity Interm. Treasury Bond Index | 1,036,752 | 13.0 | 13.0 | -2,492 |
| Lord Abbett Short Duration Income | 527,288 | 6.6 | 6.5 | 7,666 |
| Vanguard Short-Term Corporate Bond | 635,705 | 8.0 | 8.0 | -3,829 |
| Chartwell Short Duration High Yield | 38,534 | 0.5 | 0.5 | -1,437 |
| Cash Equivalents Composite | 91,412 | 1.1 | 2.0 | -68,472 |
| First American Gov't Obligations | 91,412 | 1.1 | 2.0 | -68,472 |

Asset Allocation Summary (Gross)

As of December 31, 2021





5th Percentile

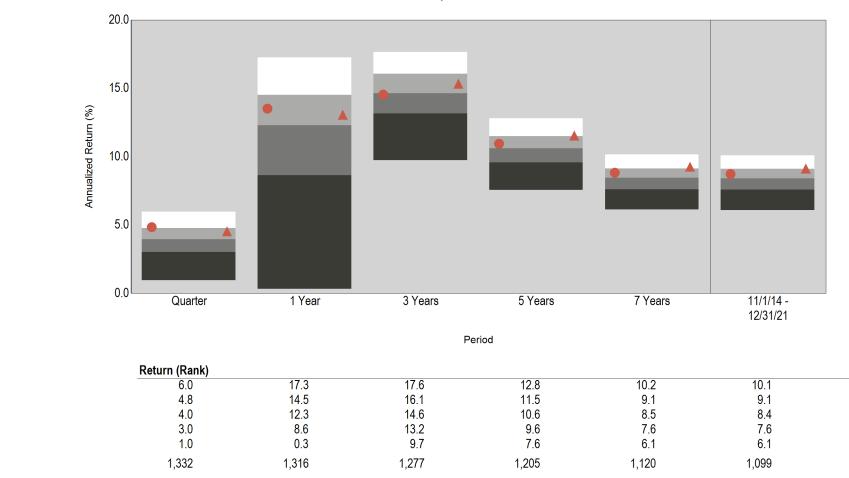
Median 75th Percentile

25th Percentile

95th Percentile # of Portfolios

Annualized Performance (Net)

As of December 31, 2021



14.5

15.3

(53)

(38)

10.9

11.6

(41)

(25)

8.8

9.3

(37)

(22)

8.7

9.1

(38)

(24)



Total Fund Composite

4.8

4.5

(24)

(32)

13.5

13.1

(37)

(42)

5th Percentile

25th Percentile

75th Percentile

95th Percentile

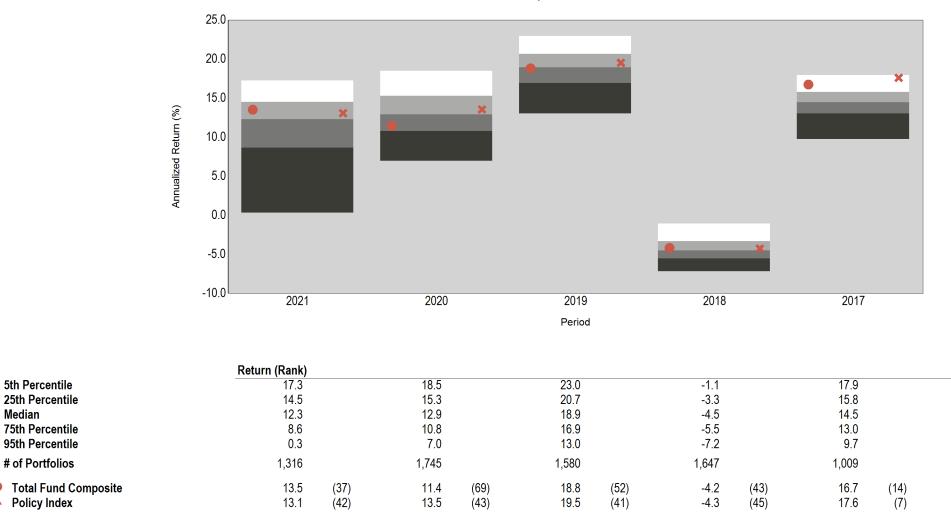
of Portfolios

Policy Index

Median

Calendar Year Performance (Net)

As of December 31, 2021



InvMetrics All DB Net Return Comparison

Median

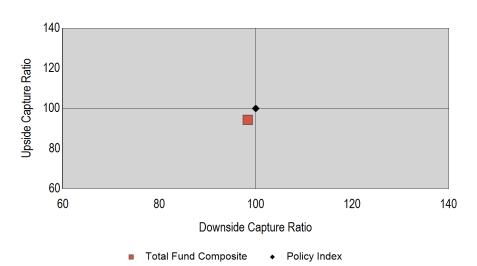
Risk & Statistics Summary

As of December 31, 2021

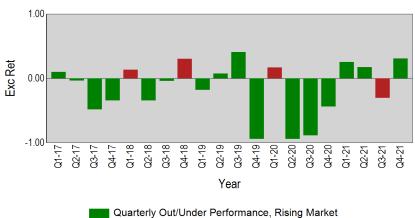
| | N STATISTICS | |
|--|-----------------------|--------------|
| | ugh December 31, 2021 | |
| | I Fund Composite | Policy Index |
| RETURN SUMMARY STATISTICS | | |
| Number of Periods | 60 | 60 |
| Maximum Return | 7.79 | 8.12 |
| Minimum Return | -8.84 | -9.06 |
| Annualized Return | 10.95 | 11.55 |
| Total Return | 68.11 | 72.75 |
| Annualized Excess Return Over Risk Free | 9.87 | 10.47 |
| Annualized Excess Return | -0.61 | 0.00 |
| RISK SUMMARY STATISTICS | | |
| Beta | 0.96 | 1.00 |
| Upside Deviation | 5.62 | 5.87 |
| Downside Deviation | 7.98 | 8.32 |
| RISK/RETURN SUMMARY STATISTICS | | |
| Annualized Standard Deviation | 9.45 | 9.78 |
| Alpha | -0.01 | 0.00 |
| Sharpe Ratio | 1.04 | 1.07 |
| Excess Return Over Market / Risk | -0.06 | 0.00 |
| Tracking Error | 0.88 | 0.00 |
| Information Ratio | -0.69 | |
| CORRELATION STATISTICS | | |
| R-Squared | 0.99 | 1.00 |
| Correlation | 1.00 | 1.00 |
| | | |

RISK RETURN STATISTICS

Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending December 31, 2021



Quarterly Excess Performance Total Fund Composite vs. Policy Index



Quarterly Out/Under Performance, Falling Market

Performance Summary (Net)

| | 3 Mo | 1 Yr | 3 Yrs | 5 Yrs | 7 Yrs | Market Value | % of Portfolio | Policy % | Inception | Inception Date |
|--|------|------|-------|-------|-------|--------------|-------------------|----------|-----------|-------------------|
| Total Fund Composite | 4.8 | 13.5 | 14.5 | 10.9 | 8.8 | 7,994,182 | 100.0 | 100.0 | 8.9 | Oct-14 |
| Policy Index | 4.5 | 13.1 | 15.3 | 11.6 | 9.3 | | | | 9.3 | Oct-14 |
| InvMetrics All DB Net Rank | 24 | 37 | 53 | 41 | 37 | | | | 35 | Oct-14 |
| Total Equity Composite | 6.7 | 20.0 | 19.9 | 14.0 | 11.2 | 5,043,078 | 63.1 | 63.0 | 11.1 | Nov-14 |
| Total Equity Policy Index | 6.6 | 19.5 | 21.5 | 15.1 | 11.9 | | | | 11.7 | Nov-14 |
| U.S. Equity Composite | 10.3 | 28.2 | 24.3 | 16.5 | 13.9 | 2,255,031 | 28.2 | 28.0 | 13.9 | Nov-14 |
| Russell 3000 | 9.3 | 25.7 | 25.8 | 18.0 | 14.5 | | | | 14.6 | Nov-14 |
| Fidelity 500 Index Fund | 11.0 | 28.7 | | | | 1,750,380 | 21.9 | 22.0 | 35.2 | Jun-20 |
| S&P 500 | 11.0 | 28.7 | | | | | | | 35.2 | Jun-20 |
| Large Blend MStar MF Rank | 25 | 23 | | | | | | | 33 | Jun-20 |
| Eaton Vance Atlanta SMID | 9.7 | 22.3 | 22.3 | 16.7 | 14.9 | 203,276 | 2.5 | 2.5 | 14.6 | Nov-14 |
| Russell 2500 | 3.8 | 18.2 | 21.9 | 13.8 | 11.7 | | | | 11.8 | Nov-14 |
| SMID Blend MStar MF Rank | 7 | 62 | 21 | 1 | 1 | | | | 1 | Nov-14 |
| Vanguard Small-Cap Value | 6.4 | 28.1 | 18.5 | 10.3 | | 301,375 | 3.8 | 3.5 | 10.1 | Apr-15 |
| CRSP US Small Cap Value TR USD | 6.4 | 28.1 | 18.5 | 10.3 | | | | | 10.1 | Apr-15 |
| Small Value MStar MF Rank | 51 | 72 | 55 | 30 | | | | | 34 | Apr-15 |
| Global Equity Composite | 5.1 | 17.5 | 19.4 | 14.3 | 10.7 | 1,929,140 | 24.1 | 24.0 | 10.6 | Nov-14 |
| Global Equity Policy | 6.1 | 18.2 | 20.2 | 14.2 | 10.7 | | | | 10.4 | Nov-14 |
| Dodge & Cox Global | 3.3 | 20.8 | 16.6 | 11.0 | 8.9 | 482,057 | 6.0 | 6.0 | 8.3 | Nov-14 |
| MSCI ACWI Value NR USD | 6.3 | 19.6 | 12.9 | 8.7 | 7.0 | | | | 6.6 | Nov-14 |
| World Large Stock Value Mstar MF Rank | 93 | 34 | 21 | 30 | 21 | | | | 29 | Nov-14 |
| AB Global Core Equity Portfolio | 5.7 | 18.1 | | | | 485,145 | 6.1 | 6.0 | 23.9 | Jul-20 |
| MSCI ACWI | 6.7 | 18.5 | | | | | | | 26.6 | Jul-20 |
| World Large Stock Mstar MF Rank | 60 | 47 | | | | | | | 65 | Jul-20 |
| MFS Low Volatility Global Equity | 6.6 | 16.9 | 14.2 | 11.5 | 9.2 | 481,003 | 6.0 | 6.0 | 8.9 | Nov-14 |
| MSCI ACWI Minimum Volatility Index | 6.3 | 13.9 | 12.3 | 10.5 | 8.9 | | | | 8.7 | Nov-14 |
| World Large Stock Mstar MF Rank | 46 | 60 | 87 | 73 | 68 | | | | 66 | Nov-14 |
| Artisan Global Opportunities | 4.8 | 13.9 | 29.5 | 21.0 | | 480,935 | 6.0 | 6.0 | 16.4 | Jul-15 |
| MSCI ACWI Growth | 6.9 | 17.1 | 27.6 | 19.9 | | | | | 14.9 | Jul-15 |
| World Large Stock Growth Mstar MF Rank | 52 | 61 | 14 | 24 | | | | | 22 | Jul-15 |

Performance Summary (Net)

| | 3 Mo | 1 Yr | 3 Yrs | 5 Yrs | 7 Yrs | Market Value | % of Portfolio | Policy % | Inception | Inception Date |
|---|------|------|-------|-------|-------|--------------|-------------------|----------|-----------|-------------------|
| Non-U.S. Equity Composite | 1.4 | 7.0 | 11.4 | 8.2 | 5.1 | 858,907 | 10.7 | 11.0 | 4.5 | Nov-14 |
| Non-U.S. Equity Policy Index | 1.6 | 8.5 | 13.6 | 9.8 | 6.7 | | | | 6.1 | Nov-14 |
| Hartford Schroder Int'l Multi-Cap Value | 3.0 | 13.9 | 10.9 | 7.3 | | 254,347 | 3.2 | 3.0 | 6.8 | Jul-16 |
| MSCI ACWI ex USA Value | 1.2 | 10.5 | 8.2 | 6.0 | | | | | 6.7 | Jul-16 |
| Foreign Large Value MStar MF Rank | 34 | 29 | 49 | 38 | | | | | 58 | Jul-16 |
| Fidelity Total Int'l Index | 2.0 | 8.5 | | | | 379,490 | 4.7 | 4.5 | 8.5 | Dec-20 |
| MSCI ACWI ex USA IMI | 1.6 | 8.5 | | | | | | | 8.5 | Dec-20 |
| Foreign Large Blend MStar MF Rank | 75 | 64 | | | | | | | 64 | Dec-20 |
| Fidelity Emerging Markets Index Fund | -1.3 | | | | | 225,071 | 2.8 | 3.5 | -6.7 | Feb-21 |
| MSCI Emerging Markets | -1.3 | | | | | | | | -6.2 | Feb-21 |
| Diversified Emerging Mkts MStar MF Rank | 52 | | | | | | | | 57 | Feb-21 |
| Real Estate Composite | | | | | | 621,413 | 7.8 | 7.0 | | |
| Deutsche RREEF America REIT II | 10.6 | 23.9 | 10.0 | | | 621,413 | 7.8 | 7.0 | 9.6 | Apr-18 |
| NFI-ODCE | 7.7 | 21.1 | 8.2 | | | | | | 8.0 | Apr-18 |
| InvMetrics Trust Funds Real Estate Priv Net Rank | 5 | 11 | 13 | | | | | | 14 | Apr-18 |
| U.S. Fixed Income Composite | -0.4 | -1.2 | 4.2 | 3.1 | 2.7 | 2,238,279 | 28.0 | 28.0 | 2.6 | Nov-14 |
| Bloomberg US Govt/Credit Int TR | -0.6 | -1.4 | 3.9 | 2.9 | 2.5 | | | | 2.5 | Nov-14 |
| Fidelity Interm. Treasury Bond Index | -0.2 | -3.0 | 4.3 | 3.3 | | 1,036,752 | 13.0 | 13.0 | 2.5 | Apr-15 |
| Bloomberg US Treasury 5-10 Yr TR | -0.2 | -3.0 | 4.4 | 3.3 | | | | | 2.6 | Apr-15 |
| Intermediate Government MStar MF Rank | 20 | 95 | 2 | 2 | | | | | 4 | Apr-15 |
| Lord Abbett Short Duration Income | -0.3 | 1.2 | 3.4 | 2.9 | | 527,288 | 6.6 | 6.5 | 2.6 | Apr-15 |
| ICE BofA 1-3 Yrs US Corporate TR | -0.5 | 0.0 | 3.2 | 2.6 | | | | | 2.3 | Apr-15 |
| Short-Term Bond MStar MF Rank | 26 | 20 | 34 | 25 | | | | | 23 | Apr-15 |
| Vanguard Short-Term Corporate Bond | -0.6 | -0.3 | | | | 635,705 | 8.0 | 8.0 | 1.1 | Jun-20 |
| BBgBarc U.S. 1-5 Year Corp. Bond Index | -0.7 | -0.5 | | | | | | | 1.1 | Jun-20 |
| Short-Term Bond MStar MF Rank | 65 | 64 | | | | | | | 57 | Jun-20 |
| Chartwell Short Duration High Yield | 0.3 | 2.4 | | | | 38,534 | 0.5 | 0.5 | 5.1 | Jun-20 |
| BofA Merrill Lynch 1-3 Yrs High Yield BB | 0.5 | 3.2 | | | | | | | 6.6 | Jun-20 |
| eV US High Yield Fixed Inc - Short Duration Net Rank | 95 | 98 | | | | | | | 94 | Jun-20 |
| Cash Equivalents Composite | | | | | | 91,412 | 1.1 | 2.0 | | |
| First American Gov't Obligations | | | | | | 91,412 | 1.1 | | | |

Policy Index History

As of December 31, 2021

Policy Index History

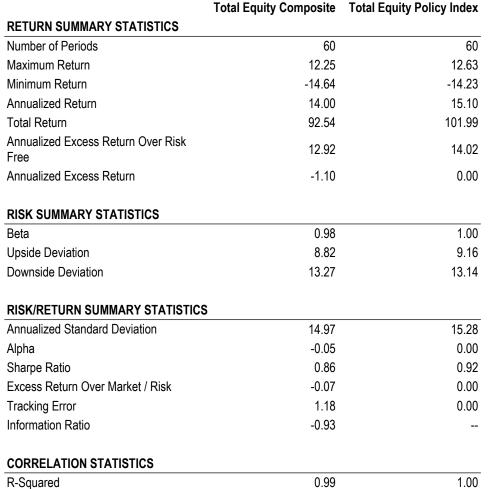
| Total Fund Compo | site | |
|------------------|---------------|--|
| 1/1/2019 | Present | 41% Russell 3000 / 22% MSCI ACWI ex USA IMI / 28% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR / 7% NFI-ODCE |
| 10/1/2018 | 12/31/2018 | 41% Russell 3000 / 23% MSCI ACWI ex USA IMI / 29% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR / 5% NFI-ODCE |
| 7/1/2018 | 9/30/2018 | 49% Russell 3000 / 26% MSCI ACWI ex USA / 20% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR / 3% NFI-ODCE |
| 8/1/2016 | 6/30/2018 | 49% Russell 3000 / 26% MSCI ACWI ex USA / 23% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR |
| 11/1/2014 | 7/31/2016 | 50% Russell 3000 / 20% MSCI ACWI ex USA / 28% Bloomberg US Govt/Credit Int TR / 2% ICE BofA 91 Days T-Bills TR |
| Total Equity Cor | nposite | |
| 10/1/2018 | Present | 65% Russell 3000 / 35% MSCI ACWI ex USA IMI |
| 8/1/2016 | 9/30/2018 | 65% Russell 3000 / 35% MSCI ACWI ex USA |
| 11/1/2014 | 7/31/2016 | 71% Russell 3000 / 29% MSCI ACWI ex USA |
| U.S. Equity C | omposite | |
| 11/1/2014 | Present | Russell 3000 |
| Global Equity | Composite | |
| 10/1/2018 | Present | MSCI ACWI IMI Net USD |
| 11/1/2014 | 9/30/2018 | MSCI ACWI |
| Non-U.S. Equ | ity Composite | |
| 10/1/2018 | Present | MSCI ACWI ex USA IMI |
| 11/1/2014 | 9/30/2018 | MSCI ACWI ex USA |
| Real Estate Cor | nposite | |
| 4/1/2018 | Present | NFI-ODCE |
| U.S. Fixed Incor | ne Composite | |
| 11/1/2014 | Present | Bloomberg US Govt/Credit Int TR |
| Cash Equivalen | ts Composite | |
| 11/1/2014 | Present | ICE BofA 91 Days T-Bills TR |

Fee Summary

| Account | Fee Schedule | % of Portfolio | Estimated Annual Fee (\$) | Estimated Annual Fee (%) |
|---|-----------------|----------------|------------------------------|-----------------------------|
| Fidelity 500 Index Fund | 0.02% of Assets | 21.9% | \$263 | 0.02% |
| Eaton Vance Atlanta SMID | 0.82% of Assets | 2.5% | \$1,667 | 0.82% |
| Vanguard Small-Cap Value | 0.07% of Assets | 3.8% | \$211 | 0.07% |
| Dodge & Cox Global | 0.62% of Assets | 6.0% | \$2,989 | 0.62% |
| AB Global Core Equity Portfolio | 0.90% of Assets | 6.1% | \$4,366 | 0.90% |
| MFS Low Volatility Global Equity | 0.68% of Assets | 6.0% | \$3,271 | 0.68% |
| Artisan Global Opportunities | 0.91% of Assets | 6.0% | \$4,377 | 0.91% |
| Hartford Schroder Int'l Multi-Cap Value | 0.77% of Assets | 3.2% | \$1,958 | 0.77% |
| Fidelity Total Int'l Index | 0.06% of Assets | 4.7% | \$228 | 0.06% |
| Fidelity Emerging Markets Index Fund | 0.08% of Assets | 2.8% | \$169 | 0.08% |
| Deutsche RREEF America REIT II | 0.95% of Assets | 7.8% | \$5,903 | 0.95% |
| Fidelity Interm. Treasury Bond Index | 0.03% of Assets | 13.0% | \$311 | 0.03% |
| Lord Abbett Short Duration Income | 0.34% of Assets | 6.6% | \$1,793 | 0.34% |
| Vanguard Short-Term Corporate Bond | 0.07% of Assets | 8.0% | \$445 | 0.07% |
| Chartwell Short Duration High Yield | 0.49% of Assets | 0.5% | \$189 | 0.49% |
| First American Gov't Obligations | 0.18% of Assets | 1.1% | \$165 | 0.18% |
| Investment Management Fee | | 100.0% | \$28,303 | 0.35% |

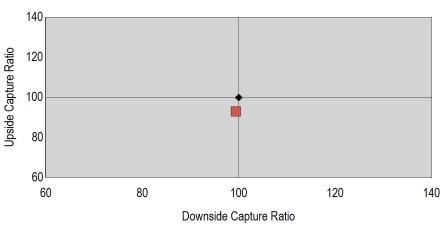
RISK RETURN STATISTICS January 01, 2017 Through December 31, 2021

Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending December 31, 2021



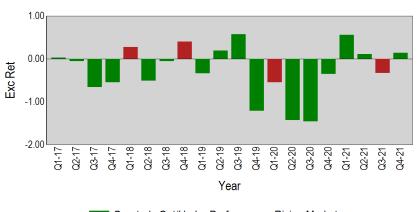
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1.00



Total Equity Composite
 Total Equity Policy Index

Quarterly Excess Performance Total Equity Composite vs. Total Equity Policy Index



Quarterly Out/Under Performance, Rising Market Quarterly Out/Under Performance, Falling Market

Total Equity Composite

As of December 31, 2021

Correlation

Total Equity Composite

As of December 31, 2021

Characteristics

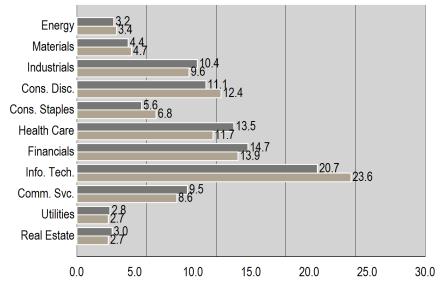
| | Portfolio | MSCI ACWI |
|---------------------------------|-----------|-----------|
| Number of Holdings | 6,193 | 2,957 |
| Weighted Avg. Market Cap. (\$B) | 349.2 | 431.0 |
| Median Market Cap. (\$B) | 5.0 | 14.3 |
| Price To Earnings | 19.8 | 20.6 |
| Price To Book | 3.6 | 3.8 |
| Price To Sales | 2.2 | 2.5 |
| Return on Equity (%) | 19.8 | 21.4 |
| Yield (%) | 1.6 | 1.8 |
| | | |

| Top Holdings | | | | |
|--------------------|-------|--|--|--|
| MICROSOFT CORP | 3.4% | | | |
| APPLE INC | 2.5% | | | |
| ALPHABET INC | 1.5% | | | |
| AMAZON.COM INC | 1.3% | | | |
| ALPHABET INC | 1.3% | | | |
| META PLATFORMS INC | 1.2% | | | |
| TESLA INC | 0.8% | | | |
| COMCAST CORP | 0.7% | | | |
| JOHNSON & JOHNSON | 0.7% | | | |
| NVIDIA CORPORATION | 0.7% | | | |
| Total | 13.8% | | | |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|------------------------|--------------|------------|--------------|--------------|
| Total Equity Composite | 12.1% | 16.7% | 68.8% | 2.4% |
| MSCI ACWI | 5.8% | 16.2% | 78.0% | 0.0% |
| Weight Over/Under | 6.3% | 0.5% | -9.2% | 2.4% |

Sector Allocation (%) vs MSCI ACWI



Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 2.4% | 2.9% | -0.5% |
| United States | 63.0% | 61.3% | 1.7% |
| Europe Ex U.K. | 12.7% | 12.6% | 0.1% |
| United Kingdom | 4.1% | 3.6% | 0.5% |
| Pacific Basin Ex Japan | 3.0% | 2.7% | 0.3% |
| Japan | 4.2% | 5.5% | -1.3% |
| Emerging Markets | 9.6% | 11.1% | -1.4% |
| Other | 0.8% | 0.2% | 0.6% |
| Total | 100.0% | 100.0% | 0.0% |

U.S. Equity Composite

As of December 31, 2021

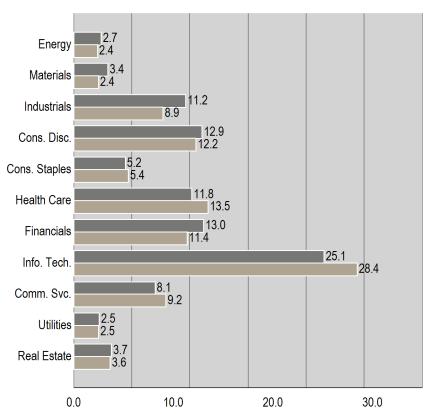
Characteristics

| | Portfolio | Russell 3000 |
|---------------------------------|-----------|--------------|
| Number of Holdings | 1,471 | 3,065 |
| Weighted Avg. Market Cap. (\$B) | 524.5 | 568.6 |
| Median Market Cap. (\$B) | 7.2 | 2.8 |
| Price To Earnings | 23.7 | 24.9 |
| Price To Book | 4.2 | 4.5 |
| Price To Sales | 3.0 | 3.4 |
| Return on Equity (%) | 25.7 | 22.9 |
| Yield (%) | 1.3 | 1.3 |

| Top Holdings | |
|------------------------|-------|
| APPLE INC | 5.3% |
| MICROSOFT CORP | 4.9% |
| AMAZON.COM INC | 2.8% |
| ALPHABET INC | 1.7% |
| TESLA INC | 1.7% |
| ALPHABET INC | 1.6% |
| META PLATFORMS INC | 1.5% |
| NVIDIA CORPORATION | 1.4% |
| BERKSHIRE HATHAWAY INC | 1.1% |
| UNITEDHEALTH GROUP INC | 0.9% |
| Total | 22.9% |

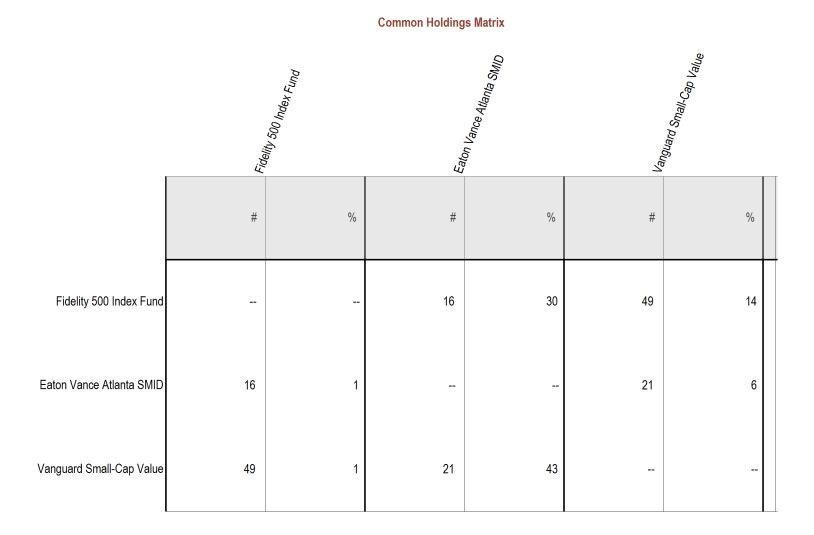
Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|-----------------------|--------------|------------|--------------|--------------|
| U.S. Equity Composite | 4.7% | 29.6% | 64.9% | 0.8% |
| Russell 3000 | 5.6% | 23.1% | 71.2% | 0.0% |
| Weight Over/Under | -0.9% | 6.4% | -6.3% | 0.8% |



Sector Allocation (%) vs Russell 3000

U.S. Equity Composite



Global Equity Composite

As of December 31, 2021

Characteristics

.

| | Portfolio MS | SCI ACWI IMI Net USD |
|---------------------------------|--------------|-------------------------|
| Number of Holdings | 270 | 9,292 |
| Weighted Avg. Market Cap. (\$B) | 249.5 | 380.3 |
| Median Market Cap. (\$B) | 48.3 | 2.3 |
| Price To Earnings | 20.9 | 20.2 |
| Price To Book | 3.6 | 3.6 |
| Price To Sales | 2.2 | 2.3 |
| Return on Equity (%) | 19.2 | 18.9 |
| Yield (%) | 1.5 | 1.8 |

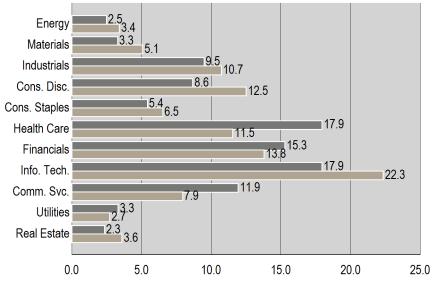
Top Holdings

| MICROSOFT CORP | 3.1% |
|------------------------------|-------|
| ALPHABET INC | 2.1% |
| TECHTRONIC INDUSTRIES CO LTD | 1.5% |
| ROCHE HOLDING AG | 1.4% |
| ALPHABET INC | 1.3% |
| META PLATFORMS INC | 1.3% |
| COMCAST CORP | 1.3% |
| UBS GROUP AG | 1.2% |
| ADVANCED MICRO DEVICES INC | 1.1% |
| GLAXOSMITHKLINE PLC | 1.1% |
| Total | 15.3% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|-------------------------|--------------|------------|--------------|--------------|
| Global Equity Composite | 4.3% | 15.3% | 76.5% | 3.8% |
| MSCI ACWI IMI Net USD | 16.3% | 15.2% | 68.5% | 0.0% |
| Weight Over/Under | -12.0% | 0.1% | 8.0% | 3.8% |

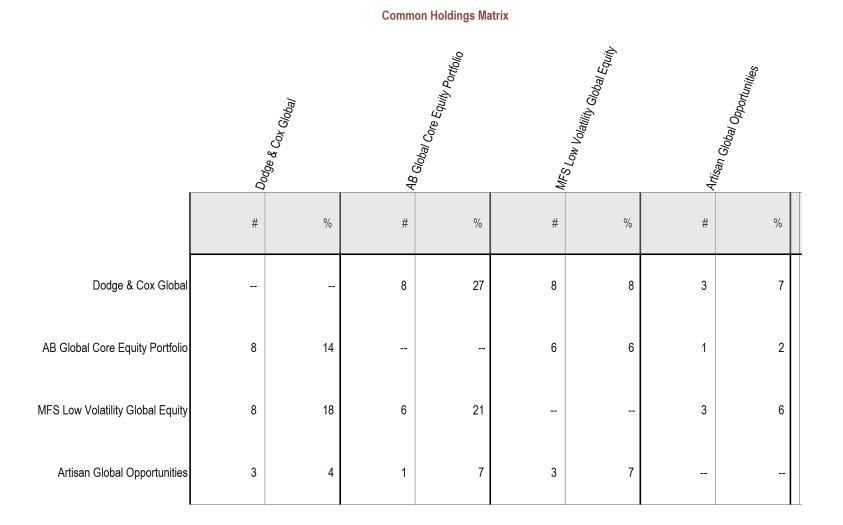




Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 4.0% | 2.9% | 1.0% |
| United States | 50.1% | 60.3% | -10.2% |
| Europe Ex U.K. | 21.5% | 12.6% | 8.9% |
| United Kingdom | 6.2% | 3.9% | 2.3% |
| Pacific Basin Ex Japan | 4.8% | 3.0% | 1.9% |
| Japan | 5.9% | 5.9% | 0.0% |
| Emerging Markets | 6.5% | 11.1% | -4.7% |
| Other | 1.0% | 0.3% | 0.7% |
| Total | 100.0% | 100.0% | 0.0% |

Global Equity Composite



Non-U.S. Equity Composite

As of December 31, 2021

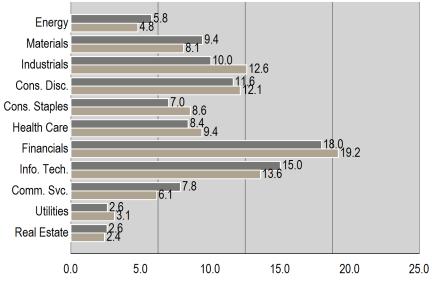
Characteristics

| | Portfolio | MSCI ACWI ex USA |
|---------------------------------|-----------|---------------------|
| Number of Holdings | 4,657 | 2,330 |
| Weighted Avg. Market Cap. (\$B) | 88.4 | 98.9 |
| Median Market Cap. (\$B) | 4.4 | 10.3 |
| Price To Earnings | 12.9 | 15.3 |
| Price To Book | 2.6 | 2.7 |
| Price To Sales | 1.3 | 1.6 |
| Return on Equity (%) | 14.5 | 14.8 |
| Yield (%) | 2.8 | 2.6 |

| Top Holdings | |
|---|-------|
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD | 3.0% |
| SAMSUNG ELECTRONICS CO LTD | 1.7% |
| TENCENT HOLDINGS LTD | 1.6% |
| ALIBABA GROUP HOLDING LTD | 1.1% |
| ROCHE HOLDING AG | 0.8% |
| ASTRAZENECA PLC | 0.7% |
| NOVARTIS AG | 0.6% |
| UNILEVER PLC | 0.6% |
| MEITUAN DIANPING USD0.00001 A B CLASS ISIN KYG596691041 | 0.6% |
| SANOFI | 0.6% |
| Total | 11.1% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|---------------------------|--------------|------------|--------------|--------------|
| Non-U.S. Equity Composite | 25.1% | 23.7% | 47.4% | 3.8% |
| MSCI ACWI ex USA | 13.4% | 24.6% | 62.0% | 0.0% |
| Weight Over/Under | 11.6% | -0.9% | -14.6% | 3.8% |

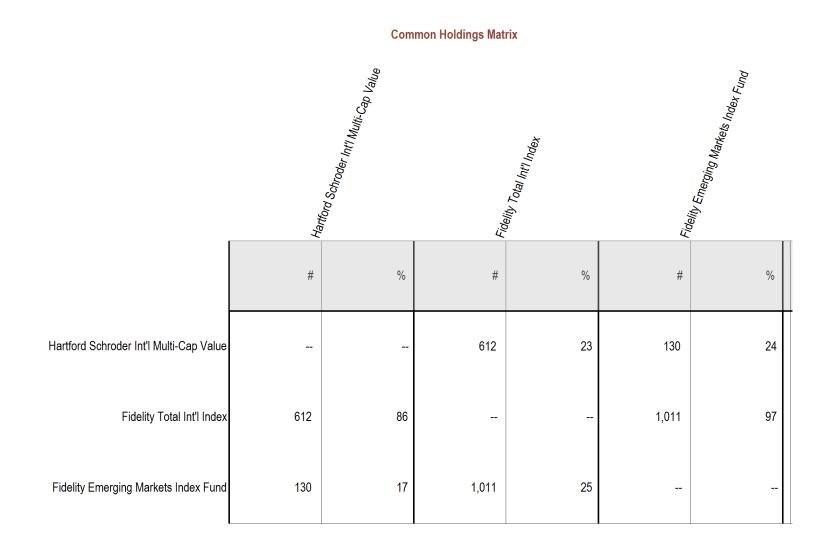


Region Allocation Summary

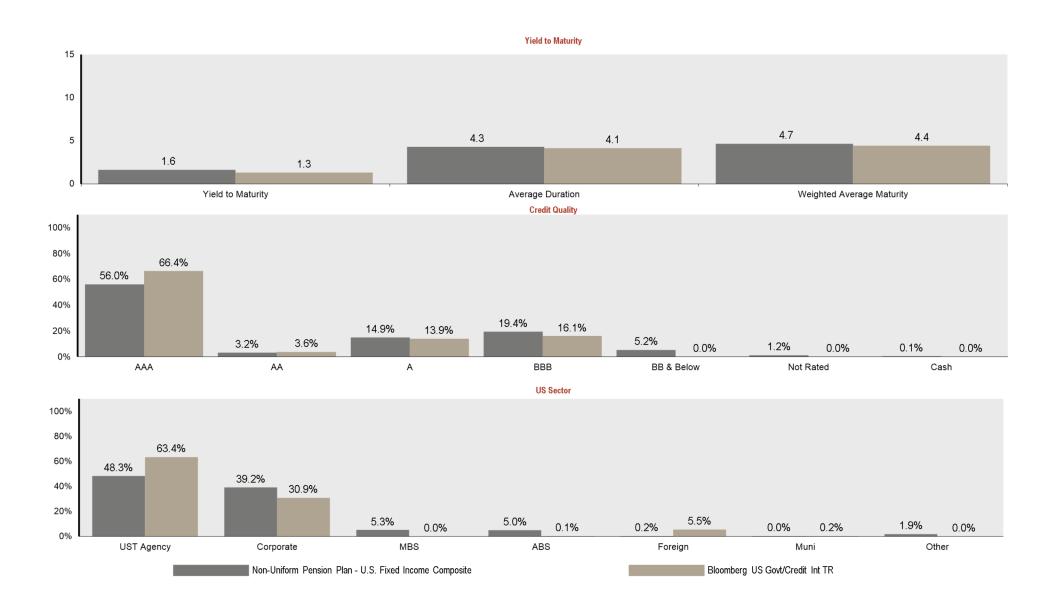
| North America ex U.S. 5.7% 7.5% -1.8 | iff |
|--------------------------------------|-----|
| | % |
| United States 0.4% 0.0% 0.4 | % |
| Europe Ex U.K. 23.1% 32.5% -9.5 | % |
| United Kingdom 8.0% 9.3% -1.3 | % |
| Pacific Basin Ex Japan 7.3% 7.1% 0.3 | % |
| Japan 11.7% 14.3% -2.7 | % |
| Emerging Markets 42.0% 28.7% 13.3 | % |
| Other 1.9% 0.6% 1.2 | % |
| Total 100.0% 100.0% 0.0 | % |

Sector Allocation (%) vs MSCI ACWI ex USA

Non-U.S. Equity Composite

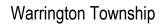


U.S. Fixed Income Composite



Investment Managers





Fidelity 500 Index Fund

As of December 31, 2021

Manager Summary: Passively-managed. Seeks to track the performance of the S&P 500 Index. Invests in large-cap U.S. equities diversified among growth and value styles. Fund remains fully invested.

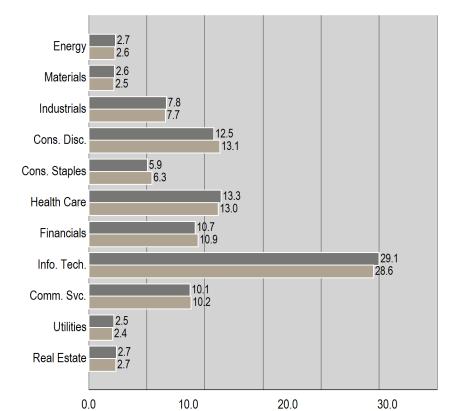
Characteristics

| | Portfolio | S&P 500 |
|---------------------------------|-----------|---------|
| Number of Holdings | 506 | 504 |
| Weighted Avg. Market Cap. (\$B) | 666.0 | 670.5 |
| Median Market Cap. (\$B) | 34.6 | 34.6 |
| Price To Earnings | 26.2 | 26.2 |
| Price To Book | 4.9 | 4.9 |
| Price To Sales | 3.8 | 3.7 |
| Return on Equity (%) | 30.6 | 30.4 |
| Yield (%) | 1.3 | 1.3 |

| Top Holdings | |
|------------------------|-------|
| APPLE INC | 6.9% |
| MICROSOFT CORP | 6.3% |
| AMAZON.COM INC | 3.6% |
| ALPHABET INC | 2.2% |
| TESLA INC | 2.1% |
| ALPHABET INC | 2.0% |
| META PLATFORMS INC | 2.0% |
| NVIDIA CORPORATION | 1.8% |
| BERKSHIRE HATHAWAY INC | 1.4% |
| UNITEDHEALTH GROUP INC | 1.2% |
| Total | 29.3% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap |
|-------------------------|--------------|------------|--------------|
| Fidelity 500 Index Fund | 0.0% | 16.6% | 83.4% |
| S&P 500 | 0.0% | 16.4% | 83.6% |
| Weight Over/Under | 0.0% | 0.2% | -0.2% |



Sector Allocation (%) vs S&P 500

Eaton Vance Atlanta SMID

As of December 31, 2021

Manager Summary: Focus on investing in high-quality companies with a history of stable and consistent earnings. Emphasize innovative business models, shareholder-friendly managements and companies with limited Wall Street coverage. Seek high levels of free cash flow with low volatility over time. Portfolio comprised of companies with high credit ratings - tends to outperform when quality is in favor.

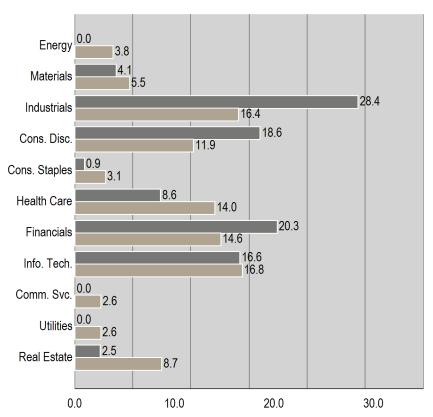
Characteristics

| | Portfolio | Russell 2500 |
|---------------------------------|-----------|--------------|
| Number of Holdings | 55 | 2,542 |
| Weighted Avg. Market Cap. (\$B) | 12.2 | 8.1 |
| Median Market Cap. (\$B) | 11.4 | 1.8 |
| Price To Earnings | 25.4 | 18.8 |
| Price To Book | 3.9 | 3.0 |
| Price To Sales | 2.7 | 2.2 |
| Return on Equity (%) | 24.3 | 8.7 |
| Yield (%) | 0.7 | 1.2 |

| Top Holdings | |
|-----------------------------------|-------|
| BERKLEY (W.R.) CORP | 4.8% |
| CARLISLE COS INC | 4.4% |
| J.B. HUNT TRANSPORT SERVICES INC. | 3.6% |
| ENVISTA HOLDINGS CORP | 3.3% |
| ARAMARK | 3.2% |
| WEX INC | 3.0% |
| TERMINIX GLOBAL HOLDINGS INC | 2.8% |
| GARTNER INC | 2.8% |
| SEI INVESTMENTS CO | 2.7% |
| JONES LANG LASALLE INC | 2.5% |
| Total | 33.1% |

Market Capitalization

| | Small | Mid | Large |
|--------------------------|--------|-------|-------|
| | Сар | Сар | Сар |
| Eaton Vance Atlanta SMID | 7.0% | 93.0% | 0.0% |
| Russell 2500 | 35.7% | 64.3% | 0.0% |
| Weight Over/Under | -28.7% | 28.7% | 0.0% |



Sector Allocation (%) vs Russell 2500

Vanguard Small-Cap Value

Manager Summary: Passively managed to track the performance of the CRSP US Small Cap Value Index. Follows a full-replication approach whereby the fund attempts to hold the same securities at the same weights as the benchmark. Low expense ratio means the returns will also track the benchmark closely on a net-of-fees basis.

0.5%

0.5%

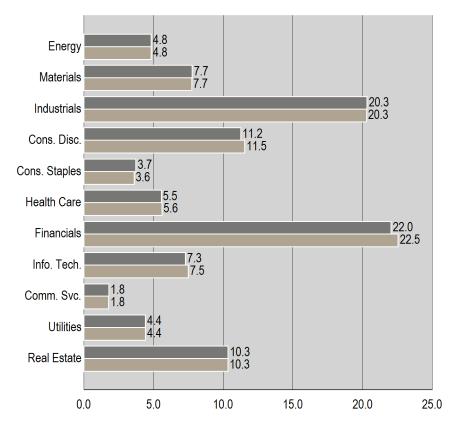
0.5%

5.6%

Characteristics

| | Portfolio | CRSP US Small Cap Value TR |
|---------------------------------|-----------|-------------------------------|
| Number of Holdings | 993 | USD 938 |
| Weighted Avg. Market Cap. (\$B) | 7.2 | 7.3 |
| Median Market Cap. (\$B) | 3.3 | 3.3 |
| Price To Earnings | 14.7 | 14.7 |
| Price To Book | 2.3 | 2.3 |
| Price To Sales | 1.5 | 1.5 |
| Return on Equity (%) | 13.6 | 13.7 |
| Yield (%) | 1.9 | 1.7 |
| Top Holdings | | |
| SIGNATURE BANK | | 0.6% |
| DIAMONDBACK ENERGY INC | | 0.6% |
| VICI PROPERTIES INC | | 0.6% |
| MOLINA HEALTHCARE INC. | | 0.6% |
| IDEX CORP | | 0.6% |
| NUANCE COMMUNICATIONS INC | | 0.6% |
| BROWN & BROWN INC | | 0.5% |

Sector Allocation (%) vs CRSP US Small Cap Value TR USD



Market Capitalization

| | Small Cap | Mid Cap | Large Cap |
|--------------------------------|--------------|------------|--------------|
| Vanguard Small-Cap Value | 67.5% | 32.5% | 0.0% |
| CRSP US Small Cap Value TR USD | 68.2% | 31.8% | 0.0% |
| Weight Over/Under | -0.7% | 0.7% | 0.0% |

BUILDERS FIRSTSOURCE INC

QUANTA SERVICES INC.

KIMCO REALTY CORP

Total

Dodge & Cox Global

As of December 31, 2021

Manager Summary: Focuses on identifying large, well-established companies across the globe that trade at a discount to their long-term profit opportunities. Emphasize fundamental research, attempting to understand risks facing businesses over a 3-5-year time horizon. Seeks companies with solid management teams and strong, competitive franchises. Strategy tends to hold deep value stocks that may be out-of-favor in the short-term but offer good value for the long-term investor.

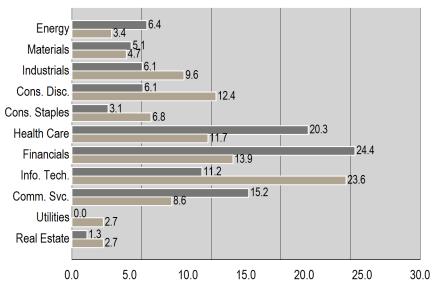
Characteristics

| Portfolio | MSCI ACWI |
|-----------|---|
| 86 | 2,957 |
| 187.1 | 431.0 |
| 47.4 | 14.3 |
| 14.8 | 20.6 |
| 2.5 | 3.8 |
| 1.4 | 2.5 |
| 14.7 | 21.4 |
| 1.9 | 1.8 |
| | 86 187.1 47.4 14.8 2.5 1.4 14.7 |

| Top Holdings | |
|----------------------------|-------|
| GLAXOSMITHKLINE PLC | 3.9% |
| SANOFI | 3.7% |
| ALPHABET INC | 3.2% |
| COMCAST CORP | 3.0% |
| NOVARTIS AG | 2.9% |
| CHARTER COMMUNICATIONS INC | 2.7% |
| SUNCOR ENERGY INC. | 2.4% |
| ROCHE HOLDING AG | 2.2% |
| FEDEX CORP. | 2.2% |
| WELLS FARGO & CO | 2.1% |
| Total | 28.3% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|--------------------|--------------|------------|--------------|--------------|
| Dodge & Cox Global | 5.6% | 19.8% | 73.1% | 1.5% |
| MSCI ACWI | 5.8% | 16.2% | 78.0% | 0.0% |
| Weight Over/Under | -0.2% | 3.6% | -4.9% | 1.5% |



Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 4.4% | 2.9% | 1.5% |
| United States | 46.0% | 61.3% | -15.3% |
| Europe Ex U.K. | 23.3% | 12.6% | 10.7% |
| United Kingdom | 8.5% | 3.6% | 4.9% |
| Pacific Basin Ex Japan | 0.8% | 2.7% | -2.0% |
| Japan | 3.5% | 5.5% | -2.0% |
| Emerging Markets | 12.5% | 11.1% | 1.4% |
| Other | 1.1% | 0.2% | 0.8% |
| Total | 100.0% | 100.0% | 0.0% |

Sector Allocation (%) vs MSCI ACWI

AB Global Core Equity Portfolio

As of December 31, 2021

Manager Summary: Applies a bottom-up fundamental process to identify attractively valued U.S. and non-U.S. companies which have the ability to generate high and sustainable growth on invested capital. With no inherent style-bias, the strategy holds a relatively concentrated global portfolio with 50-80 stocks.

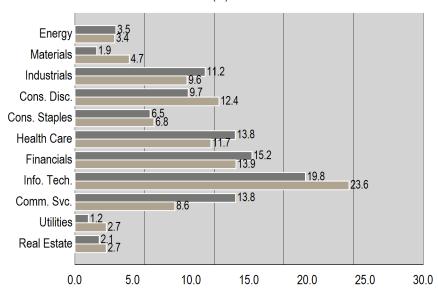
Characteristics

| | Portfolio | MSCI ACWI |
|---------------------------------|-----------|-----------|
| Number of Holdings | 63 | 2,957 |
| Weighted Avg. Market Cap. (\$B) | 413.2 | 431.0 |
| Median Market Cap. (\$B) | 60.6 | 14.3 |
| Price To Earnings | 23.9 | 20.6 |
| Price To Book | 5.2 | 3.8 |
| Price To Sales | 2.8 | 2.5 |
| Return on Equity (%) | 23.8 | 21.4 |
| Yield (%) | 0.9 | 1.8 |

| Top Holdings | |
|-------------------------------------|-------|
| MICROSOFT CORP | 6.9% |
| ALPHABET INC | 5.0% |
| META PLATFORMS INC | 4.6% |
| COCA-COLA CO (THE) | 4.1% |
| OTIS WORLDWIDE CORP | 3.6% |
| COGNIZANT TECHNOLOGY SOLUTIONS CORP | 3.4% |
| SAP SE | 3.2% |
| MOODY'S CORP. | 3.0% |
| ROCHE HOLDING AG | 2.9% |
| JULIUS BAER GRUPPE AG | 2.6% |
| Total | 39.4% |

Market Capitalization

| | Small Cap | Mid Cap | Large Cap | Unclassified |
|---------------------------------|--------------|------------|--------------|--------------|
| AB Global Core Equity Portfolio | 2.4% | 11.8% | 80.1% | 5.6% |
| MSCI ACWI | 5.8% | 16.2% | 78.0% | 0.0% |
| Weight Over/Under | -3.4% | -4.3% | 2.1% | 5.6% |



Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 0.0% | 2.9% | -2.9% |
| United States | 58.6% | 61.3% | -2.7% |
| Europe Ex U.K. | 25.7% | 12.6% | 13.1% |
| United Kingdom | 6.3% | 3.6% | 2.7% |
| Pacific Basin Ex Japan | 1.5% | 2.7% | -1.3% |
| Japan | 4.7% | 5.5% | -0.8% |
| Emerging Markets | 3.2% | 11.1% | -7.9% |
| Other | 0.0% | 0.2% | -0.2% |
| Total | 100.0% | 100.0% | 0.0% |

Sector Allocation (%) vs MSCI ACWI

MFS Low Volatility Global Equity

As of December 31, 2021

Manager Summary: Strategy seeks to produce long-term excess market returns with less volatility than the market. Investment process combines quantitative inputs and fundamental analysis. Only stocks that exhibit low volatility are considered for further analysis. Fundamental inputs include analyst expectations for earnings and valuation. Stocks are then rated buy, hold, or sell. Strategy typically holds 80-120 names with a maximum position limit of 4%.

Characteristics

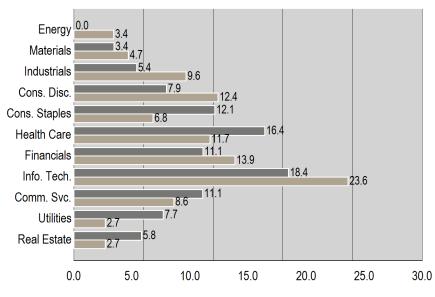
| | Portfolio | MSCI ACWI |
|---------------------------------|-----------|-----------|
| Number of Holdings | 102 | 2,957 |
| Weighted Avg. Market Cap. (\$B) | 231.5 | 431.0 |
| Median Market Cap. (\$B) | 39.4 | 14.3 |
| Price To Earnings | 21.7 | 20.6 |
| Price To Book | 3.6 | 3.8 |
| Price To Sales | 2.3 | 2.5 |
| Return on Equity (%) | 23.4 | 21.4 |
| Yield (%) | 2.2 | 1.8 |

| Top Holdings | |
|---|-------|
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD | 2.9% |
| ROCHE HOLDING AG | 2.8% |
| NOVO NORDISK 'B' | 2.8% |
| JOHNSON & JOHNSON | 2.7% |
| CLP HOLDINGS LTD | 2.6% |
| ADOBE INC | 2.6% |
| MICROSOFT CORP | 2.5% |
| KDDI CORP | 2.2% |
| ALPHABET INC | 2.1% |
| CONSTELLATION SOFTWARE INC | 2.0% |
| Total | 25.4% |

Market Capitalization

| | Cap | Cap | Large Cap | Unclassified |
|----------------------------------|------|-------|--------------|--------------|
| MFS Low Volatility Global Equity | 7.9% | 20.6% | 69.3% | 2.2% |
| MSCI ACWI | 5.8% | 16.2% | 78.0% | 0.0% |
| Weight Over/Under | 2.1% | 4.4% | -8.7% | 2.2% |

1



Region Allocation Summary

| • | Region | % of Total | % of Bench | % Diff |
|---|------------------------|---------------|---------------|--------|
| , | North America ex U.S. | 6.9% | 2.9% | 4.0% |
| 1 | United States | 47.3% | 61.3% | -14.0% |
| | Europe Ex U.K. | 15.8% | 12.6% | 3.2% |
| | United Kingdom | 1.7% | 3.6% | -1.9% |
| | Pacific Basin Ex Japan | 6.2% | 2.7% | 3.5% |
| 1 | Japan | 11.1% | 5.5% | 5.5% |
| | Emerging Markets | 8.3% | 11.1% | -2.8% |
|) | Other | 2.8% | 0.2% | 2.6% |
| | Total | 100.0% | 100.0% | 0.0% |
| | | | | |

Sector Allocation (%) vs MSCI ACWI

Artisan Global Opportunities

As of December 31, 2021

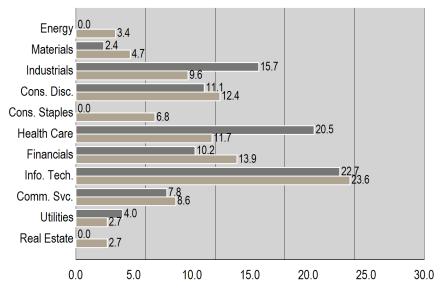
Manager Summary: Focuses on stocks exhibiting the following three characteristics. 1) Franchise Company: possess a proprietary asset, dominates its market, or has a defensible brand. 2) Attractive Valuation: discount to the team's estimate of private market value. 3) Accelerating Profit Cycle: solid cash flow and well positioned to take advantage of market opportunities. Companies are typically identified through two sources: quantitative screens and qualitative analysis. Concentrated strategy of approximately 30-50 stocks.

Characteristics

| Portfolio | MSCI ACWI |
|-----------|---|
| 45 | 2,957 |
| 197.6 | 431.0 |
| 53.5 | 14.3 |
| 30.9 | 20.6 |
| 5.0 | 3.8 |
| 5.3 | 2.5 |
| 17.4 | 21.4 |
| 0.7 | 1.8 |
| | 45 197.6 53.5 30.9 5.0 5.3 17.4 |

| Top Holdings | |
|------------------------------|-------|
| TECHTRONIC INDUSTRIES CO LTD | 5.9% |
| ADVANCED MICRO DEVICES INC | 4.6% |
| VEEVA SYSTEMS INC | 4.2% |
| LONZA GROUP AG, ZUERICH | 4.0% |
| DANAHER CORP | 3.8% |
| BOSTON SCIENTIFIC CORP | 3.5% |
| NEXTERA ENERGY INC | 3.3% |
| ATLASSIAN CORP PLC | 3.2% |
| ALPHABET INC | 3.1% |
| APTIV PLC | 2.9% |
| Total | 38.5% |

Market Capitalization Small Large Mid Unclassified Cap Cap Cap Artisan Global Opportunities 6.3% 0.8% 84.4% 8.4% MSCI ACWI 5.8% 16.2% 78.0% 0.0% Weight Over/Under -5.0% -7.8% 6.4% 6.3%



Sector Allocation (%) vs MSCI ACWI

Region Allocation Summary

| Region | % of Total | % of Bench | % Diff |
|------------------------|---------------|---------------|--------|
| North America ex U.S. | 3.8% | 2.9% | 0.9% |
| United States | 49.8% | 61.3% | -11.5% |
| Europe Ex U.K. | 22.0% | 12.6% | 9.4% |
| United Kingdom | 8.5% | 3.6% | 4.9% |
| Pacific Basin Ex Japan | 10.8% | 2.7% | 8.1% |
| Japan | 4.1% | 5.5% | -1.4% |
| Emerging Markets | 0.9% | 11.1% | -10.2% |
| Other | 0.0% | 0.2% | -0.2% |
| Total | 100.0% | 100.0% | 0.0% |
| | | | |

Hartford Schroder Int'l Multi-Cap Value

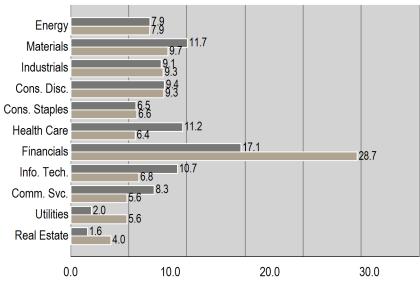
Manager Summary: Quantitative process leads to a diversified, all-cap portfolio with developed and emerging market exposure. The team seeks stocks trading at attractive valuations with higher quality fundamentals than industry peers. Weighting scheme favors higher-quality and more liquid securities. Portfolio tends to hold more than 500 stocks.

Characteristics MSCI ACWI ex Portfolio USA Value Number of Holdings 1,454 788 Weighted Avg. Market Cap. (\$B) 51.6 67.2 Median Market Cap. (\$B) 3.2 9.5 Price To Earnings 10.5 11.2 Price To Book 2.1 1.9 Price To Sales 1.0 1.0 Return on Equity (%) 15.4 11.4 3.5 4.0 Yield (%)

Top Holdings

| ASTELLAS PHARMA INC | 1.4% |
|---|-------|
| HENKEL AG & CO KGAA | 1.4% |
| SANOFI | 1.4% |
| ASTRAZENECA PLC | 1.4% |
| GLAXOSMITHKLINE PLC | 1.3% |
| NIPPON TELEGRAPH & TELEPHONE CORP NTT | 1.3% |
| UNILEVER PLC | 1.3% |
| NOVARTIS AG | 1.3% |
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD | 1.3% |
| KDDI CORP | 1.3% |
| Total | 13.5% |

| Marke | | | | |
|---|--------------|------------|--------------|--------------|
| | Small Cap | Mid Cap | Large Cap | Unclassified |
| Hartford Schroder Int'l Multi-Cap Value | 31.7% | 26.2% | 36.4% | 5.7% |
| MSCI ACWI ex USA Value | 15.3% | 27.7% | 56.9% | 0.0% |
| Weight Over/Under | 16.3% | -1.5% | -20.5% | 5.7% |



Region Allocation Summary

| North America ex U.S. 8.3% 7.7% 0.6 | iff |
|---|-----|
| | % |
| United States 0.1% 0.0% 0.1 | % |
| Europe Ex U.K. 28.8% 30.1% -1.4 | % |
| United Kingdom 14.4% 12.0% 2.4 | % |
| Pacific Basin Ex Japan 5.8% 7.1% -1.3 | % |
| Japan 17.4% 14.2% 3.2 | % |
| Emerging Markets 23.4% 28.2% -4.8 | % |
| Other 1.8% 0.7% 1.2 | % |
| Total 100.0% 100.0% 0.0 | % |

Sector Allocation (%) vs MSCI ACWI ex USA Value

Fidelity Total Int'l Index

As of December 31, 2021

Manager Summary: The investment seeks to provide investment results that correspond to the total return of foreign developed and emerging stock markets. The fund normally invests at least 80% of assets in securities included in the MSCI ACWI (All Country World Index) ex USA Investable Market Index and in depository receipts representing securities included in the index. The MSCI ACWI (All Country World Index) ex USA Investable Market Index is a market capitalization-weighted index designed to measure the investable equity market performance for global investors of large, mid, and small-cap stocks in developed and emerging markets, excluding the U.S.

MSCI ACWI ex

3.3%

0.0%

3.3%

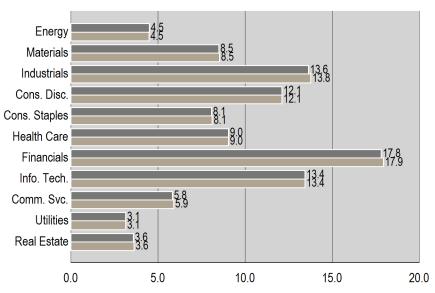
DUICH

Characteristics

| | Portfolio | USA IMI |
|---------------------------------|-----------|---------|
| Number of Holdings | 4,273 | 6,706 |
| Weighted Avg. Market Cap. (\$B) | 84.6 | 85.0 |
| Median Market Cap. (\$B) | 3.6 | 2.0 |
| Price To Earnings | 15.3 | 15.3 |
| Price To Book | 2.7 | 2.7 |
| Price To Sales | 1.6 | 1.5 |
| Return on Equity (%) | 14.2 | 14.0 |
| Yield (%) | 2.5 | 2.6 |

| Top Holdings | |
|---|------|
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD | 1.7% |
| NESTLE SA, CHAM UND VEVEY | 1.2% |
| TENCENT HOLDINGS LTD | 1.1% |
| ASML HOLDING NV | 1.0% |
| SAMSUNG ELECTRONICS CO LTD | 1.0% |
| ROCHE HOLDING AG | 0.9% |
| ALIBABA GROUP HOLDING LTD | 0.7% |
| LVMH MOET HENNESSY LOUIS VUITTON SE | 0.7% |
| TOYOTA MOTOR CORP | 0.6% |
| NOVO NORDISK 'B' | 0.6% |
| Total | 9.6% |

Market Capitalization Small Mid Large Unclassified Cap Cap Cap Fidelity Total Int'l Index 23.3% 21.3% 52.1% MSCI ACWI ex USA IMI 25.8% 21.2% 53.0% Weight Over/Under -2.5% 0.1% -0.9%



Region Allocation Summary

|) | Region | % of Total | % of Bench | % Diff |
|---|------------------------|---------------|---------------|--------|
| , | North America ex U.S. | 7.4% | 7.4% | 0.0% |
| | United States | 0.4% | 0.0% | 0.4% |
| | Europe Ex U.K. | 32.8% | 31.6% | 1.2% |
| I | United Kingdom | 8.4% | 9.7% | -1.3% |
| | Pacific Basin Ex Japan | 9.0% | 7.5% | 1.5% |
|) | Japan | 14.9% | 14.9% | 0.0% |
| | Emerging Markets | 25.6% | 28.0% | -2.5% |
|) | Other | 1.6% | 0.9% | 0.7% |
| | Total | 100.0% | 100.0% | 0.0% |
| | | | | |

Sector Allocation (%) vs MSCI ACWI ex USA IMI

Fidelity Emerging Markets Index Fund

As of December 31, 2021

Manager Summary: The fund seeks to provide investment results that correspond to the total return of emerging stock markets. Invests at least 80% of assets in securities included in the MSCI Emerging Markets Index and in depository receipts representing securities included in the index. Utilizes statistical sampling techniques based on factors such as capitalization, industry exposures, dividend yield, earnings growth and the effect of foreign taxes to attempt to replicate the the returns of MSCI Emerging Markets Index.

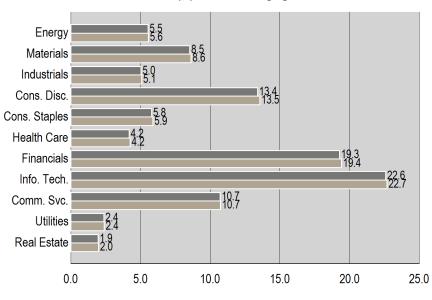
MSCI Emerging

Characteristics

| | Portfolio | Markets |
|---------------------------------|-----------|---------|
| Number of Holdings | 1,236 | 1,413 |
| Weighted Avg. Market Cap. (\$B) | 134.9 | 139.7 |
| Median Market Cap. (\$B) | 8.0 | 7.2 |
| Price To Earnings | 12.5 | 12.3 |
| Price To Book | 2.8 | 2.8 |
| Price To Sales | 1.5 | 1.4 |
| Return on Equity (%) | 14.7 | 14.6 |
| Yield (%) | 2.4 | 2.4 |
| | | |

| Top Holdings | |
|---|-------|
| TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD | 7.0% |
| TENCENT HOLDINGS LTD | 4.3% |
| SAMSUNG ELECTRONICS CO LTD | 4.0% |
| ALIBABA GROUP HOLDING LTD | 2.9% |
| MEITUAN DIANPING USD0.00001 A B CLASS ISIN KYG596691041 | 1.5% |
| RELIANCE INDUSTRIES LTD | 1.2% |
| INFOSYS LTD | 1.1% |
| CHINA CONSTRUCTION BANK CORP | 0.8% |
| MEDIATEK INCORPORATION | 0.8% |
| JD.COM INC | 0.8% |
| Total | 24.4% |

| Market | | | | |
|--------------------------------------|--------------|------------|--------------|--------------|
| | Small Cap | Mid Cap | Large Cap | Unclassified |
| Fidelity Emerging Markets Index Fund | 7.1% | 23.1% | 67.1% | 2.6% |
| MSCI Emerging Markets | 14.3% | 21.8% | 63.9% | 0.0% |
| Weight Over/Under | -7.2% | 1.3% | 3.3% | 2.6% |



Region Allocation Summary

| | Region | % of Total | % of Bench | % Diff |
|---|------------------------|---------------|---------------|--------|
| | North America ex U.S. | 0.0% | 0.0% | 0.0% |
| | United States | 0.9% | 0.0% | 0.9% |
| | Europe Ex U.K. | 0.5% | 0.2% | 0.3% |
| | United Kingdom | 0.2% | 0.0% | 0.2% |
| | Pacific Basin Ex Japan | 6.1% | 0.0% | 6.1% |
| • | Japan | 0.0% | 0.0% | 0.0% |
| | Emerging Markets | 89.8% | 99.2% | -9.4% |
|) | Other | 2.5% | 0.6% | 1.9% |
| | Total | 100.0% | 100.0% | 0.0% |
| | | | | |

Sector Allocation (%) vs MSCI Emerging Markets

Deutsche RREEF America REIT II

As of December 31, 2021

| Character | istics | | Strategy Brea | akdown |
|-----------------------|------------|-------------------------------|----------------|-----------------------------|
| | | | % of Portfolio | Top Five Metro Areas |
| Fund GAV (\$MM) | \$18,135.5 | Pre-Development | | San Francisco, CA |
| Fund NAV (\$MM) | \$15,027.5 | Development | 2.9% | Los Angeles, CA |
| Cash (% of NAV) | 1.7% | Initial Leasing | | New York, NY |
| # of Investments | 126 | Operating | 97.1% | Boston, MA |
| % in Top 10 by NAV | 24.2% | Re-Development | | Seattle, WA |
| Leverage % | 20.4% | Other | | |
| Occupancy | 95.1% | | | |
| # of MSAs | 34 | <u>Queue In:</u> | | <u>Queue Out:</u> |
| 1-Year Dividend Yield | 3.4% | Contribution Queue (\$MM) | \$163.79 | Redemption Queue (\$MM) |
| As of Date | 31-Dec-21 | Anticipated Drawdown (Months) | 6 | Anticipated Payout (Months) |

Regional Breakdown by NAV (Excluding Cash & Debt)



Property Type Breakdown by NAV (Excluding Cash & Debt)



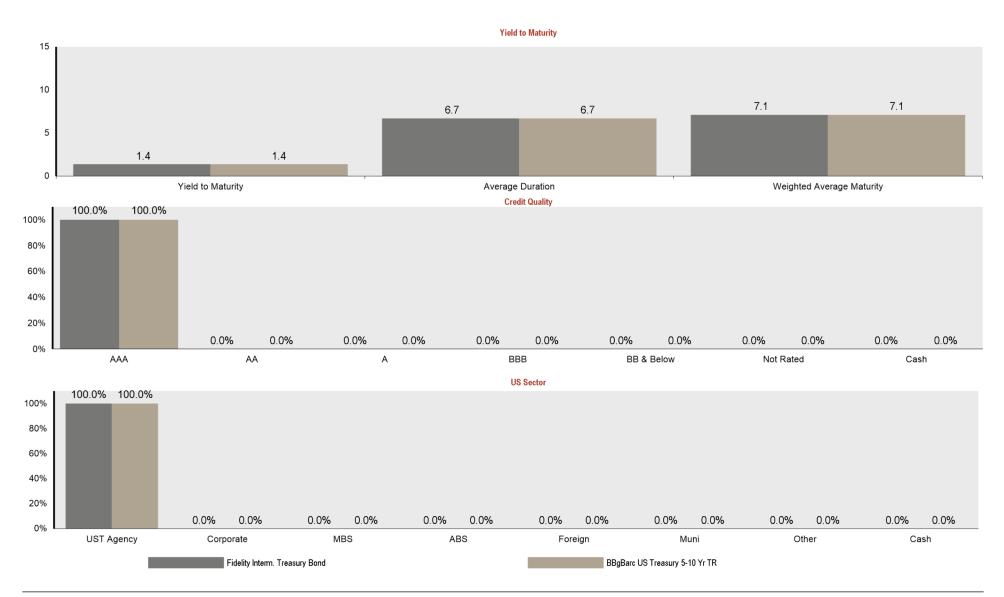
Property Size Breakdown by NAV (Excluding Cash & Debt)



Fidelity Interm. Treasury Bond Index

As of December 31, 2021

Manager Summary: Passively-managed using an index sampling approach. Seeks to track the performance of Barclays Capital U.S. 5-10 year Treasury Index. Invests only in U.S. Treasury securities. Intermediate duration portfolio. a smaller number of securities.

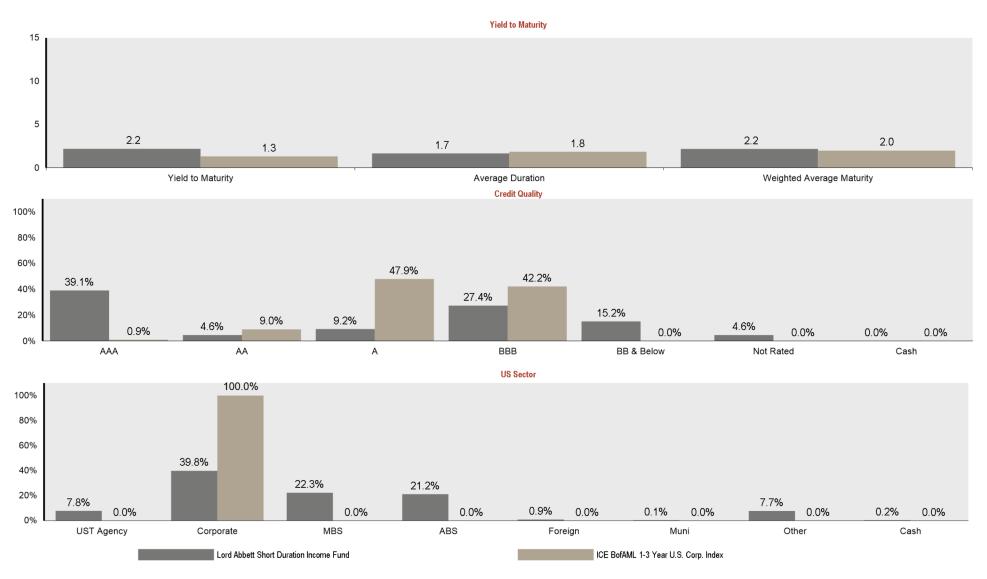


Marquette Associates

Lord Abbett Short Duration Income

As of December 31, 2021

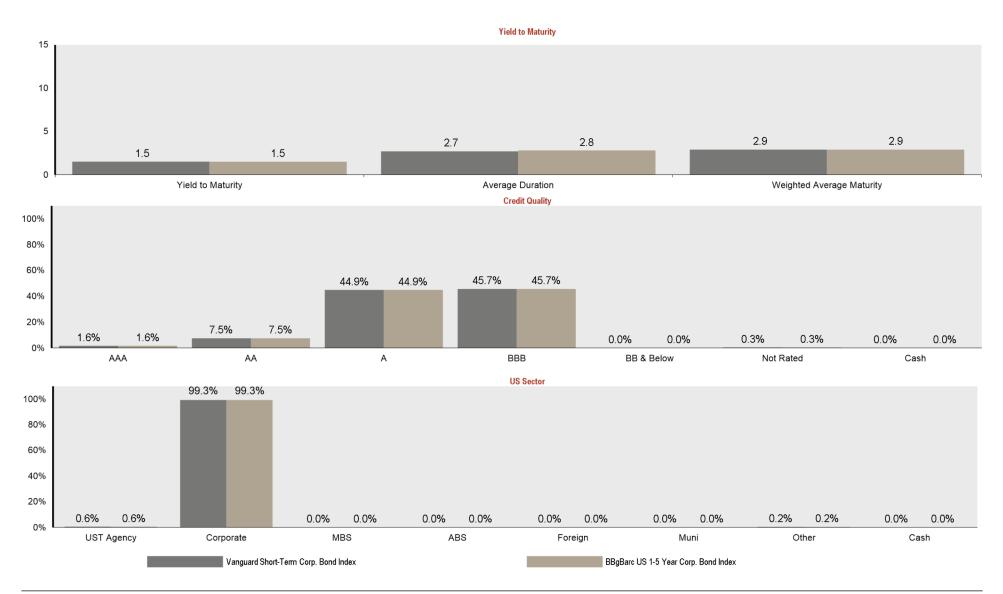
Manager Summary: Seeks to add value through sector rotation and security selection among short-duration securities. Approach combines top-down decisions making with bottom-up security selection. A separate quantitative team helps monitor risk allocation as well as the relative attractiveness of securities and sectors. The strategy employs a duration-neutral position versus the benchmark.



Vanguard Short-Term Corporate Bond

As of December 31, 2021

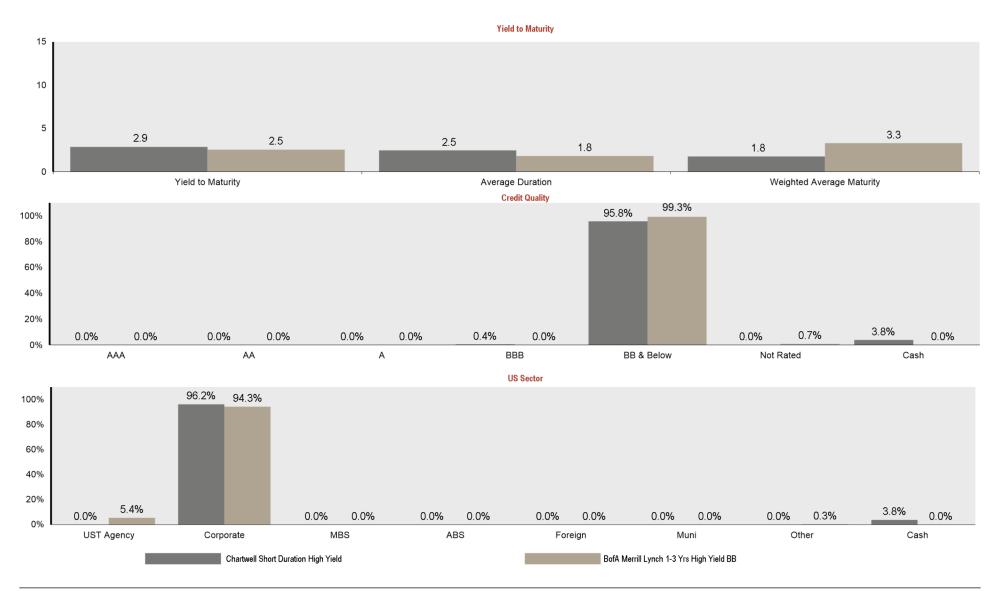
Manager Summary: Seeks to track the performance of the Bloomberg Barclays U.S. 1–5 Year Corporate Bond Index. Diversified exposure to the short-term investment-grade U.S. corporate bond market. Follows a passively managed, index-sampling approach. Provides current income with high credit quality.



Chartwell Short Duration High Yield

As of December 31, 2021

Manager Summary: Seeks income and long-term capital appreciation. Focuses on higher quality high yield corporate debt securities seeking attractive short-term yields and lower volatility than the broad high yield and leverage bank loan markets. Typically invests at least 80% of its net assets in high yield debt securities.



Marquette Associates



February 16, 2022

Strategic Asset Allocation Review

Warrington Township



Presented By:

Lee Martin, Ph.D. Managing Director

William Torre, CFA, CAIA Vice President

Contents

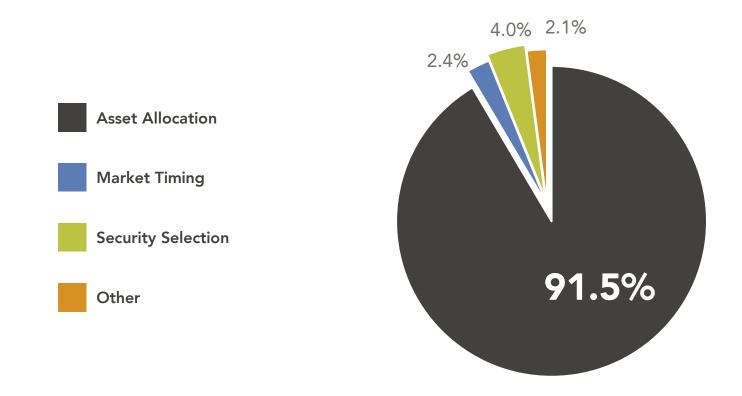
- Asset Allocation Background
- Police Pension Plan: Asset Allocation
- Non-Uniform Pension Plan: Asset Allocation
- Opportunistic Credit Background
- Private Debt Background





Asset allocation controls portfolio risk

Portfolio return variability (%)



Source: Gary P. Brinson, L. Randolph Hood, and Gilbert L. Beebower, "Determinants of Portfolio Performance," Financial Analysts Journal, July/August 1986. Gary P. Brinson, Brian D. Singer, and Gilbert L. Beebower, "Determinants of Portfolio Performance II: An Update," Financial Analysts Journal, May/June 1991.



A comprehensive approach to asset allocation

Holistic approach contributes to optimal portfolios for each client's unique circumstances

| Asset allocation studies encompass: |
|--|
| Cashflow and liability projections |
| Risk budgeting & value at risk |
| Rigorous suite of risk analytics |
| Stress tests to gauge portfolio sensitivity |
| Client-specific return goals and risk tolerances |

Client-specific return goals and risk tolerances

Studies reflect client-specific inputs which are reflected in robust analytics package

CLIENT SPECIFIC VARIABLES

- Target rate of return
- Risk tolerance
- Cash flows
- Liabilities
- Liquidity constraints
- Suitable asset classes
- Spending policy
- Debt covenants

SOFTWARE MODELING

- Monte-Carlo model utilizes over 25 variables:
 - Interest Rates
 - Default Rates
 - Corporate Spreads
 - Dividend Yields
 - Property Yields
- Dynamic correlations
- Reflects current market environment
- Objective inputs and outputs no building block

STUDY

- Monte Carlo analysis: 1,000 scenarios produce a range of outcomes
- Downside risk and downside deviation
- Value-at-risk
- Includes analysis of funding ratio or spending policy
- Stress testing
- Portfolio optimization
- Customized reports to best-suit client needs

Warrington Township: Plan Background

- Goal of creating a diversified portfolio that generates the highest probability of meeting the target return with measured amounts of risk and mitigating each plan's downside risk (permanent losses).
- Target Return Objective: Police: 7.10% | Non-Uniform: 6.75%
- Additional factors:
 - Plan dynamics: current plan structure, future projected liability streams and investment liquidity profile
 - Ensure investment management fee dollars are used efficiently
 - Broad market environment
 - Lower interest rates have resulted in lower fixed income return expectations
 - Higher longer term inflation expectations impacting real returns
 - Plans have ability to access sub investment grade credit, as well as private market investments for Police Pension, to help achieve plan goals



Police Pension: Asset Allocation

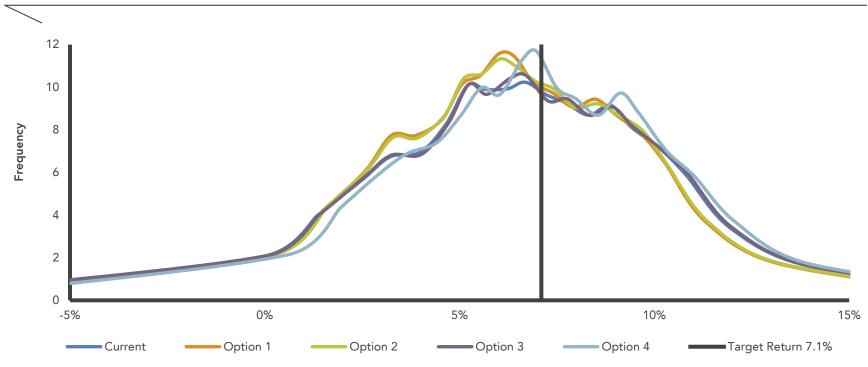
- **Current:** Reflects the current target asset allocation
- Option 1: Reduce Total Equity by 5% while adding a 5% target allocation to Opportunistic Credit
 - Reduces risk significantly
- Option 2: Reduce Total Equity by 5% & reduce current Fixed Income structure by 5%, adding a 10% target allocation to Opportunistic Credit
 - Higher estimated return and lower risk
- Option 3: Reduce current Fixed Income structure by 5% while adding a 5% target allocation to Opportunistic Credit
 - Higher estimated return
- Option 4: Reduce Total Equity by 2% & reduce current Fixed Income structure by 3% while adding a 5% target allocation to Private Credit
 - Reduces risk significantly
 - Highest Return/Risk Ratio

| | Current | Option 1 | Option 2 | Option 3 | Option 4 |
|-------------------------------|---------|-------------|-------------|-------------|-------------|
| Total Plan | 100.0% | 100.0% | 100.0% | 100.0% | 4 100.0% |
| Total Equity | 68.0% | 63.0% | 63.0% | 68.0% | 66.0% |
| Total U.S. Equity | 32.0% | 29.0% | 29.0% | 32.0% | 31.0% |
| Large Cap Core | 25.5% | 23.0% | 23.0% | 25.5% | 24.5% |
| Mid Cap Core | 3.0% | 2.75% | 2.75% | 3.0% | 3.0% |
| Small Cap Value | 3.5% | 3.25% | 3.25% | 3.5% | 3.5% |
| Total Non-US Equity | 16.0% | 14.0% | 14.0% | 16.0% | 15.0% |
| Non-U.S. All Cap Core | 6.0% | 5.25% | 5.25% | 6.0% | 5.0% |
| International Large Cap Value | 3.5% | 3.0% | 3.0% | 3.5% | 3.5% |
| International Small Cap | 2.0% | 1.75% | 1.75% | 2.0% | 2.0% |
| Emerging Markets | 4.5% | 4.0% | 4.0% | 4.5% | 4.5% |
| Total Global Equity | 20.0% | 20.0% | 20.0% | 20.0% | 20.0% |
| Global Equity | 15.0% | 15.0% | 15.0% | 15.0% | 15.0% |
| Global Low Volatility | 5.0% | 5.0% | 5.0% | 5.0% | 5.0% |
| Total Defensive Equity | 5.0% | 5.0% | 5.0% | 5.0% | 5.0% |
| Defensive Equity | 5.0% | 5.0% | 5.0% | 5.0% | 5.0% |
| Total Real Estate | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% |
| Core Real Estate | 7.0% | 7.0% | 7.0% | 7.0% | 7.0% |
| Total Fixed Income | 20.0% | 25.0% | 30.0% | 20.0% | 22.0% |
| Cash | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% |
| Intermediate Govt/Credit | 18.0% | 18.0% | 13.0% | 13.0% | 15.0% |
| Opportunistic Credit | 0.0% | 5.0% | 10.0% | 5.0% | 0.0% |
| Private Credit | 0.0% | 0.0% | 0.0% | 0.0% | 5.0% |
| | | | | | |
| Estimated Return | 6.63% | 6.53% | 6.72% | 6.82% | 6.94% |
| Assumed Risk | 12.33% | 11.57% | 11.74% | 12.49% | 11.84% |
| Return/Risk | 0.54 | 0.56 | 0.57 | 0.55 | 0.59 |

Source: Marquette Associates Asset Allocation Study: 12-31-2021



Annual Return Distribution

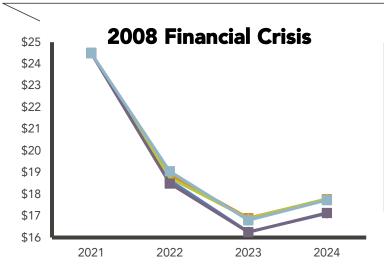


| Percentile | Current | Option 1 | Option 2 | Option 3 | Option 4 |
|------------|---------|----------|----------|----------|----------|
| 5% | 0.0% | 0.2% | 0.2% | 0.0% | 0.6% |
| 25% | 4.0% | 3.9% | 3.9% | 4.0% | 4.4% |
| 50% | 6.6% | 6.5% | 6.7% | 6.8% | 6.9% |
| 75% | 9.4% | 9.0% | 9.1% | 9.4% | 9.6% |
| 95% | 14.0% | 13.3% | 13.3% | 14.0% | 14.0% |

Source: Marquette Associates - 12-31-2021 Asset Allocation Study

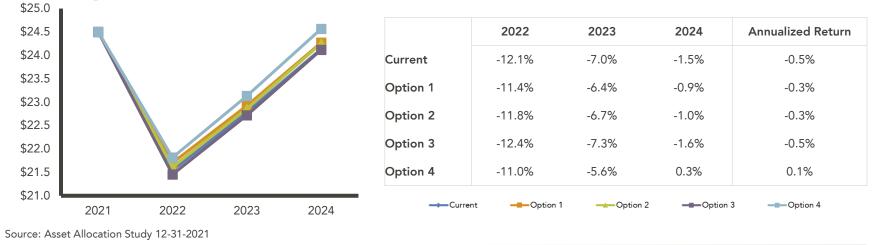


Scenario Analysis



| | 2022 | 2023 | 2024 | Annualized Return |
|----------|--------|--------|--------|-------------------|
| Current | -23.9% | -33.6% | -30.2% | -11.3% |
| Option 1 | -22.8% | -31.0% | -27.5% | -10.2% |
| Option 2 | -23.4% | -31.1% | -27.4% | -10.1% |
| Option 3 | -24.5% | -33.7% | -30.1% | -11.2% |
| Option 4 | -22.2% | -31.4% | -27.6% | -10.2% |

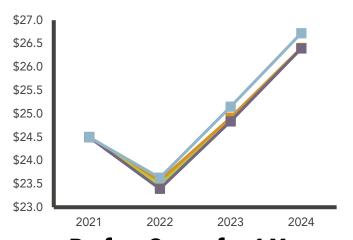
Equities Decline 20% for 1 Year



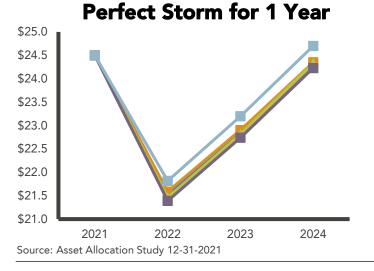
Marquette Associates

Scenario Analysis

2011 U.S. Debt Crisis



| | 2022 | 2023 | 2024 | Annualized Return |
|----------|-------|------|------|-------------------|
| Current | -4.1% | 1.7% | 7.8% | 2.5% |
| Option 1 | -3.8% | 1.7% | 7.8% | 2.5% |
| Option 2 | -4.2% | 1.4% | 7.8% | 2.5% |
| Option 3 | -4.5% | 1.4% | 7.7% | 2.5% |
| Option 4 | -3.5% | 2.7% | 9.1% | 2.9% |

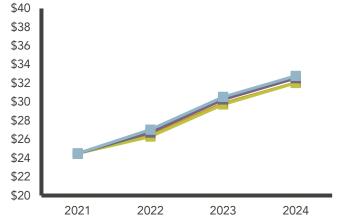


| | 2022 | 2023 | 2024 | Annualized Return |
|----------|--------|---------|-------|-------------------|
| Current | -12.2% | -6.8% | -1.0% | -0.3% |
| Option 1 | -11.9% | -6.5% | -0.6% | -0.2% |
| Option 2 | -12.4% | -6.9% | -0.7% | -0.2% |
| Option 3 | -12.7% | -7.2% | -1.1% | -0.4% |
| Option 4 | -10.9% | -5.3% | 0.8% | 0.3% |
| | | -3.3 /0 | | |

Marquette Associates

Scenario Analysis

1981 Interest Rate Spike



| | 2022 | 2023 | 2024 | Annualized Return |
|----------|-------|-------|-------|-------------------|
| Current | 9.7% | 24.0% | 32.9% | 10.0% |
| Option 1 | 7.9% | 21.8% | 30.9% | 9.4% |
| Option 2 | 7.4% | 21.4% | 30.8% | 9.4% |
| Option 3 | 9.1% | 23.6% | 32.9% | 9.9% |
| Option 4 | 10.4% | 24.7% | 33.9% | 10.2% |

Interest Rates Rise 1% for 1 Year



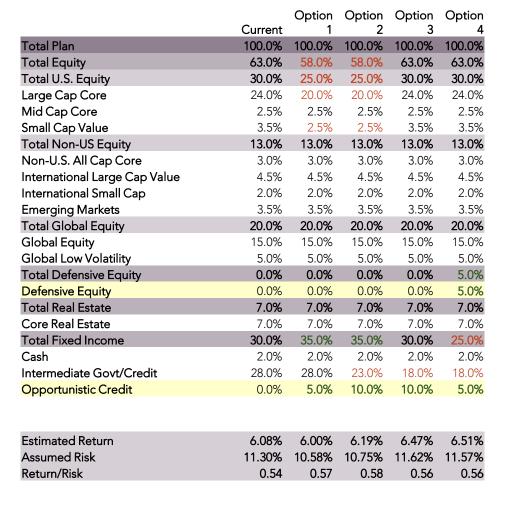


Non-Uniform Pension Plan

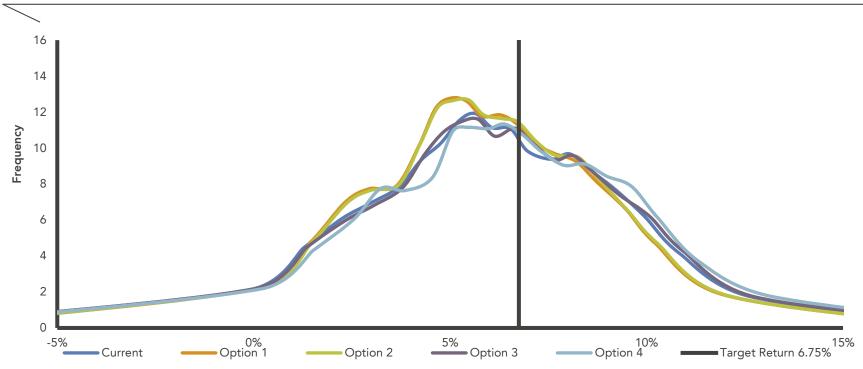
Non-Uniform Pension: Asset Allocation

- Current: Reflects the current target allocation
- Option 1: Reduce Total Equity by 5% while adding a 5% target allocation to Opportunistic Credit
 - Reduces estimated return but also risk
- Option 2: Reduce Total Equity by 5% & reduce current Fixed Income structure by 5%, adding a 10% target allocation to Opportunistic Credit
 - Higher estimated return with lower risk
- Option 3: Reduce current Fixed Income structure by 10% while adding a 10% target allocation to Opportunistic Credit
 - Higher estimated return with higher risk
- Option 4: Reduce current Fixed Income structure by 10% while adding a 5% target allocation to Opportunistic Credit and a 5% target allocation to Defensive Equity
 - Highest estimated return with higher risk

Source: Marquette Associates Asset Allocation Study: 12-31-2021



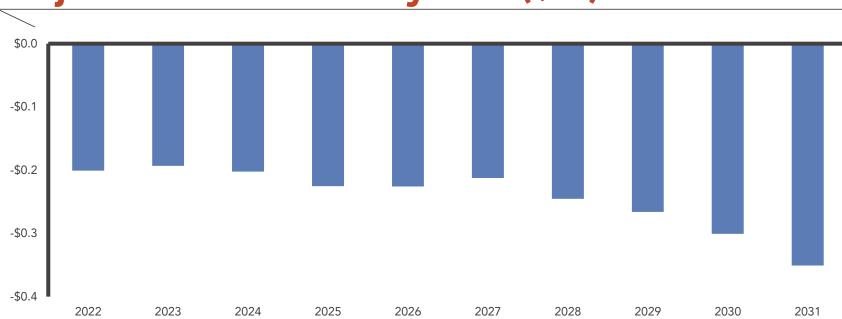
Annual Return Distribution



| Percentile | Current | Option 1 | Option 2 | Option 3 | Option 4 |
|------------|---------|----------|----------|----------|----------|
| 5% | -0.1% | 0.2% | 0.2% | 0.0% | 0.2% |
| 25% | 3.7% | 3.6% | 3.7% | 3.8% | 3.8% |
| 50% | 6.1% | 6.0% | 6.2% | 6.5% | 6.5% |
| 75% | 8.6% | 8.2% | 8.3% | 8.7% | 9.0% |
| 95% | 12.7% | 12.0% | 12.0% | 12.8% | 13.2% |

Source: Marquette Associates - 12-31-2021 Asset Allocation Study





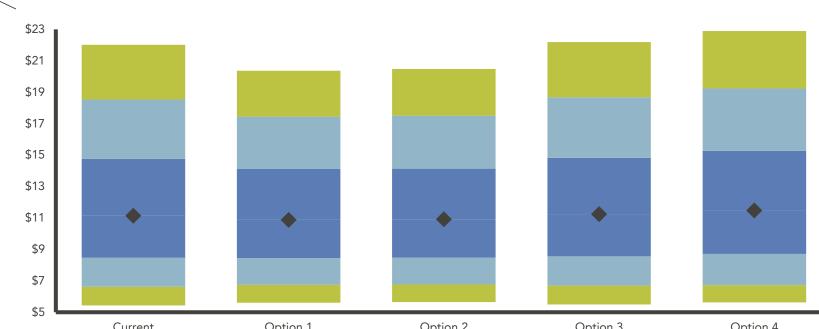
Projected Cash Flows by Year (\$M)

Forecasted Cash Flow as Percentage of Market Value

| Year | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Current | -2.4% | -2.2% | -2.3% | -2.4% | -2.3% | -2.1% | -2.4% | -2.5% | -2.8% | -3.1% |
| Option 1 | -2.4% | -2.2% | -2.3% | -2.5% | -2.4% | -2.2% | -2.4% | -2.6% | -2.8% | -3.2% |
| Option 2 | -2.4% | -2.2% | -2.3% | -2.5% | -2.4% | -2.2% | -2.4% | -2.6% | -2.8% | -3.2% |
| Option 3 | -2.4% | -2.2% | -2.3% | -2.4% | -2.3% | -2.1% | -2.4% | -2.5% | -2.8% | -3.1% |
| Option 4 | -2.4% | -2.2% | -2.3% | -2.4% | -2.3% | -2.1% | -2.3% | -2.4% | -2.7% | -3.1% |

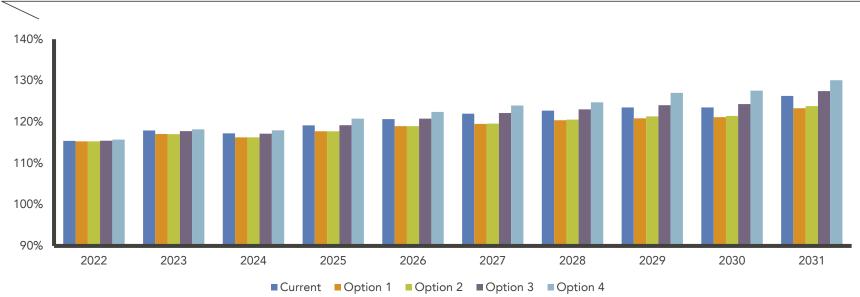


Distributions of Year 10 Market Values (\$M)



| Current | Current Optio | | Option 2 | Option | Option 3 | | |
|-------------|---------------|--------------|--------------|--------------|-------------------|----------------------------|--|
| ■ 5% to 10% | ■ 10% to 25% | ■ 25% to 50% | ■ 50% to 75% | ■ 75% to 90% | 90% to 95% | Mediar | |
| Percentile | Current | Option 1 | Option 2 | Option 3 | Option 4 | | |
| 5% | \$5.4 | \$5.6 | \$5.7 | \$5.5 | \$5.6 | | |
| 10% | \$6.6 | \$6.7 | \$6.8 | \$6.7 | \$6.7 | | |
| 25% | \$8.5 | \$8.4 | \$8.5 | \$8.6 | \$8.7 | | |
| 50% | \$11.1 | \$10.9 | \$10.9 | \$11.2 | \$11.5 | | |
| 75% | \$14.8 | \$14.1 | \$14.1 | \$14.8 | \$15.3 | | |
| 90% | \$18.5 | \$17.4 | \$17.5 | \$18.7 | \$19.2 | | |
| 95% | \$22.0 | \$20.4 | \$20.5 | \$22.2 | \$22.9 | | |

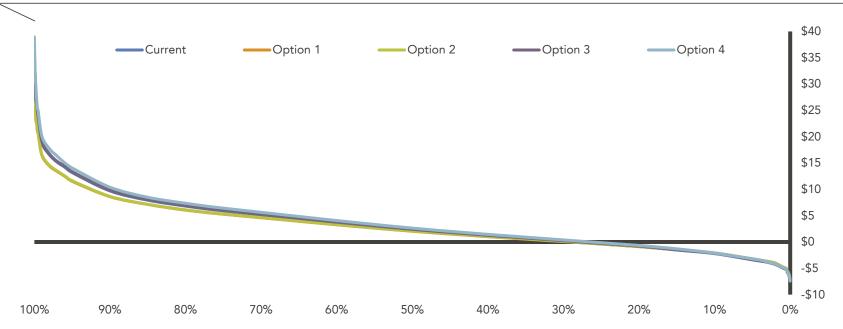
Estimated Funding Ratio by Year (%)



Estimated Year 10 Funding Ratio Ranges

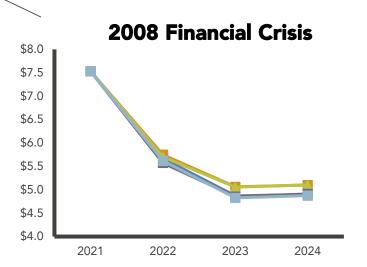
| Percentile | Current | Option 1 | Option 2 | Option 3 | Option 4 |
|------------|---------|----------|----------|----------|----------|
| 5% | 61.6% | 63.6% | 64.0% | 62.3% | 63.8% |
| 10% | 75.0% | 76.4% | 76.7% | 75.9% | 76.3% |
| 25% | 95.9% | 95.7% | 96.1% | 97.1% | 98.7% |
| 50% | 126.3% | 123.3% | 123.8% | 127.5% | 130.1% |
| 75% | 167.2% | 159.9% | 160.3% | 168.0% | 173.0% |
| 90% | 210.1% | 197.7% | 198.4% | 211.7% | 218.1% |
| 95% | 249.5% | 230.8% | 232.1% | 251.5% | 259.5% |

Estimated Year 10 Net Surplus Position



| Percentile | Current | Option 1 | Option 2 | Option 3 | Option 4 |
|------------|---------|----------|----------|----------|----------|
| 5% | -\$3.4 | -\$3.2 | -\$3.2 | -\$3.3 | -\$3.2 |
| 10% | -\$2.2 | -\$2.1 | -\$2.1 | -\$2.1 | -\$2.1 |
| 25% | -\$0.4 | -\$0.4 | -\$0.3 | -\$0.3 | -\$0.1 |
| 50% | \$2.3 | \$2.1 | \$2.1 | \$2.4 | \$2.7 |
| 75% | \$5.9 | \$5.3 | \$5.3 | \$6.0 | \$6.4 |
| 90% | \$9.7 | \$8.6 | \$8.7 | \$9.9 | \$10.4 |
| 95% | \$13.2 | \$11.5 | \$11.7 | \$13.4 | \$14.1 |

Scenario Analysis



| | 2022 | 2023 | 2024 | Annualized Return |
|----------|--------|--------|--------|-------------------|
| Current | -22.1% | -30.5% | -27.1% | -10.0% |
| Option 1 | -21.0% | -27.8% | -24.4% | -8.9% |
| Option 2 | -21.7% | -27.9% | -24.3% | -8.9% |
| Option 3 | -23.4% | -30.6% | -26.9% | -9.9% |
| Option 4 | -22.8% | -31.0% | -27.4% | -10.1% |

Equities Decline 20% for 1 Year



Marquette Associates

Scenario Analysis

2011 U.S. Debt Crisis \$7.8 \$7.7 \$7.6 \$7.5 \$7.4

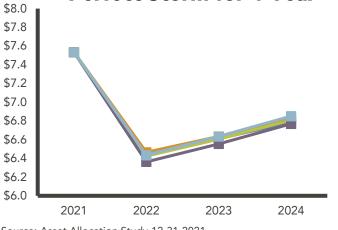
| | 2022 | 2023 | 2024 | Annualized Return |
|----------|-------|------|------|-------------------|
| Current | -3.4% | 1.6% | 7.1% | 2.3% |
| Option 1 | -3.1% | 1.6% | 7.1% | 2.3% |
| Option 2 | -3.5% | 1.3% | 7.1% | 2.3% |
| Option 3 | -4.2% | 1.0% | 7.1% | 2.3% |
| Option 4 | -3.8% | 1.7% | 7.8% | 2.5% |

Perfect Storm for 1 Year

2023

2024

2022



| -11.8% | -6.9% | -1.6% | 0 59/ |
|-------------------|--------|--|--|
| | | | -0.5% |
| -11.5% | -6.6% | -1.1% | -0.4% |
| -12.1% | -6.9% | -1.2% | -0.4% |
| -12.9% | -7.6% | -1.7% | -0.6% |
| -11.9% | -6.5% | -0.6% | -0.2% |
| . Ontine 1 | | | Option 4 |
| | -12.1% | -12.1% -6.9% -12.9% -7.6% -11.9% -6.5% | -12.1% -6.9% -1.2% -12.9% -7.6% -1.7% -11.9% -6.5% -0.6% |

Source: Asset Allocation Study 12-31-2021

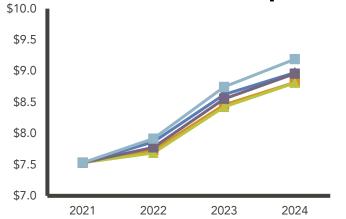
\$7.3 \$7.2 \$7.1 \$7.0

2021



Scenario Analysis

1981 Interest Rate Spike



| | 2022 | 2023 | 2024 | Annualized Return |
|----------|------|-------|-------|-------------------|
| Current | 7.1% | 20.0% | 27.7% | 8.5% |
| Option 1 | 5.3% | 17.9% | 25.7% | 7.9% |
| Option 2 | 4.7% | 17.4% | 25.6% | 7.9% |
| Option 3 | 5.9% | 19.1% | 27.6% | 8.5% |
| Option 4 | 7.8% | 21.7% | 30.7% | 9.3% |

Interest Rates Rise 1% for 1 Year

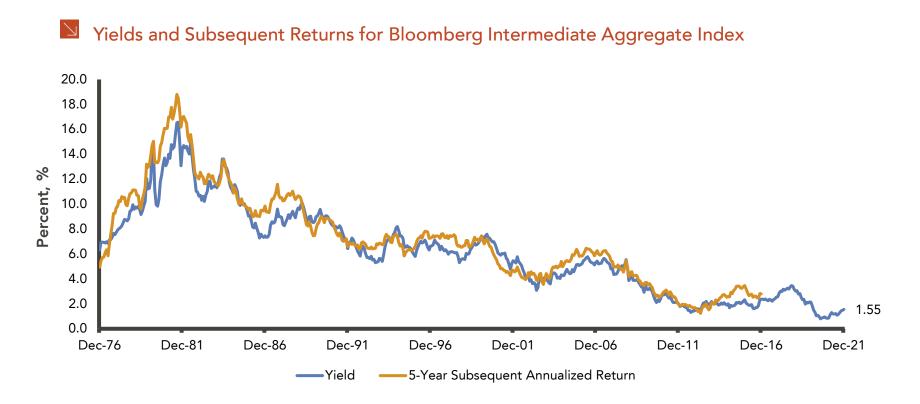
| \$8.6 | | | : | 2022 | 2023 | 2024 | Annualized Return |
|-----------|--|----------|---------|----------|----------|--------|-------------------|
| \$8.4 | _ | Current | | 4.9% | 10.8% | 17.1% | 5.4% |
| \$8.2 | | Option 1 | | | | | |
| \$8.0 | | - | | 3.9% | 9.8% | 16.0% | 5.1% |
| \$7.8 | | Option 2 | | 3.5% | 9.5% | 16.1% | 5.1% |
| \$7.6 | | Option 3 | | 4.0% | 10.3% | 17.2% | 5.4% |
| \$7.4 | _ | Option 4 | | 5.0% | 11.5% | 18.4% | 5.8% |
| \$7.2 | | | | | | | |
| \$7.0 | | | Current | Option 1 | Option 2 | Option | 3 — Option 4 |
| Source: A | 2021 2022 2023 2024 Asset Allocation Study 12-31-2021 | | | | | | |





Core fixed income yields and returns

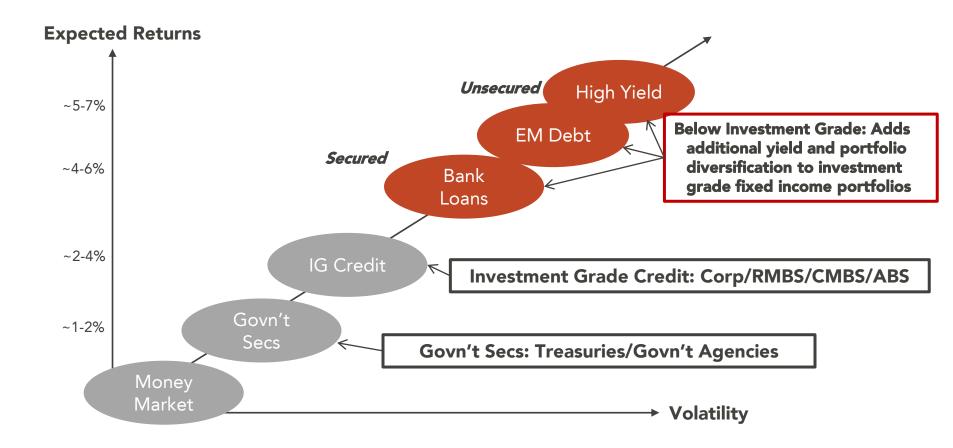
Low fixed income yields signal low returns



Source: Refinitiv.



Fixed Income Return/Risk Spectrum



Source: December 31, 2021 Marquette Associates Asset Allocation Assumptions

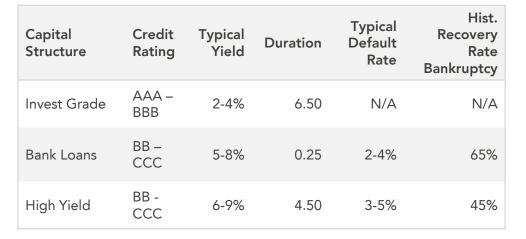


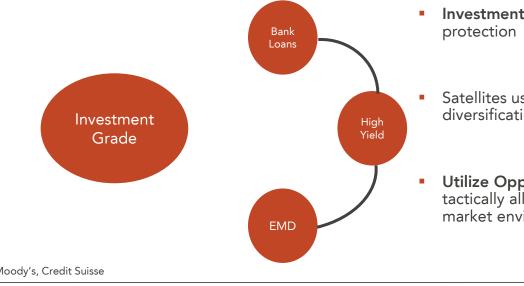
Marquette's fixed income framework

What we expect from fixed income:

- Income
- Diversification
- Stability & principal protection

How we build a fixed income portfolio:





Investment Grade fixed income used for principal

Satellites used to provide additional income, diversification and return enhancement

Utilize Opportunistic Credit Manager who can tactically allocate to satellite positions based on market environment and opportunity set

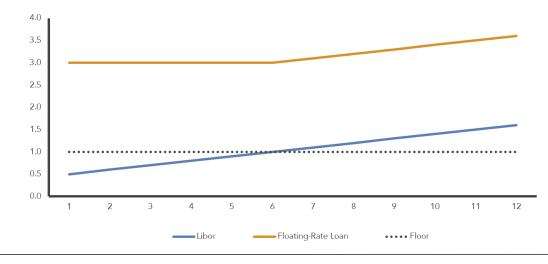


Definition of high yield

- The high yield asset class is situated between core bonds and equities in the risk/return spectrum
- A high yield bond is defined as a debt security issued by a corporation with a below BBB credit rating.
- These below investment grade credit ratings indicate a greater chance of default but also comes with higher interest rates, enticing lenders with higher yields given the inherent higher risk.
- Initially created for corporate "Fallen Angels", this market grew in the 1980's as corporations partnered with investment banks for M&A deals or leveraged buyouts. As of the end of 2021, this remains an established market with roughly \$1 trillion in bonds outstanding.
- Though considered a liquid market, in periods of market stress, investors can see market volatility as interest rate spreads widen, given the underlying credit and default risks that appear more relevant.

Definition of bank loans

- The bank loan (also known as "leveraged loan" and "senior secured loan") asset class is situated between core bonds and high yield bonds in the risk/return spectrum
- These loans are secured by a company's assets and have the unique characteristic of providing investors a floating interest rate, which benefits investors during rising interest rate environments
- Bank loans typically outperform core bonds in rising rate environments, and typically outperform high yield bonds in negative returning markets
- An interest rate floor protects investors if rates were to fall

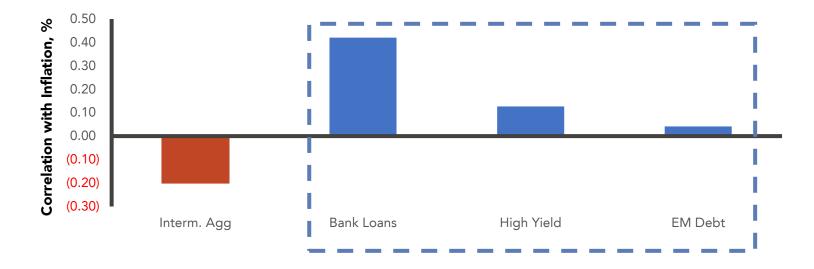


Definition of emerging markets debt

- Emerging Markets Debt are bonds issued by developing countries or companies domiciled in developing countries (ie. China, Brazil, India)
- Emerging Markets Debt historically have provided higher relative yields to their developed country counterparts, given higher risks
 - Smaller Nations with more concentrated economies
 - Less liquid and transparent markets
 - Political and regulatory challenges
- Emerging Markets Debt may provide inflation hedging capabilities
 - Many countries have commodity focused economies
 - Higher economic growth in emerging economies vs. developed markets
- There is a large number of countries and regions within emerging markets universe, provides diversification benefits
- Bonds are usually purchased in hard currency (USD, Euro) as well as Local Currency in the more developed countries

Fixed income correlations with inflation

Within fixed income, plus sector allocations have more closely aligned with increasing costs/liability growth compared to investment grade fixed income.



Analysis uses quarterly data and covers the longest common time period (July 2000 - September 2021).



Lord Abbett Bond Debenture Fund

Investment Description: This strategy seeks attractive risk adjusted returns by optimally positioning the portfolio along the credit curve, maximizing exposure to the most favored industries, security selection within those industries and selecting the best value within those company's capital structures. This portfolio will invest in high yield, loans, EM Debt, investment grade bonds and public equity securities.

28.5%

22.7%

PORTFOLIO BREAKDOWN

U.S. High Yield Corporate U.S. Investment Grade Corporate 12.0% Equity 8.2% Non-U.S. Investment Grade Corporate CMBS 5.7% 5.5% Bank Loans Non-U.S. High Yield Corporate 5.0% 4.0% CLO 2.6% Sovereign Municipals 2.4% ABS 2.1% MBS 0.8% 0.4% Convertibles Cook 0.00/

| | Cash | 0.0% |
|---------------|----------------------------------|------------|
| CREDIT QUALIT | Y DISTR | BUTION |
| | AAA | 3.3% |
| | 🔳 AA 6 | .4% |
| | 📕 A 8.1 | 1% |
| | BBB | 31.8% |
| | 🔳 BB 2 | 8.9% |
| | 🔳 B 16 | .8% |
| | ■ <b3< th=""><th>3.0%</th></b3<> | 3.0% |
| | Not F | Rated 1.7% |
| | 2 21 21 Ea | at Chaot |

*Data based on Lord Abbett's 12-31-21 Fact Sheet



| Ticker | LBNVX |
|---------------------|--|
| Expense Ratio | 0.51% |
| Coupon | 4.36% |
| Avg. Credit Quality | BB |
| Effective Duration | 5.5 yrs. |
| | Expense Ratio Coupon Avg. Credit Quality |

| | 1 Yr. | 3 Yrs. | 5 Yrs. | 10 Yrs. |
|-----------------------|-------|--------|--------|---------|
| LBNVX | 3.5% | 8.3% | 6.1% | 6.6% |
| BBG Barclays Int. G/C | -1.4% | 3.9% | 2.9% | 2.4% |

| | 2021 | 2020 | 2019 | 2018 | 2017 |
|-----------------------|-------|------|-------|-------|------|
| LBNVX | 3.5% | 7.9% | 13.7% | -3.6% | 9.5% |
| BBG Barclays Int. G/C | -1.4% | 6.4% | 6.8% | 0.9% | 2.1% |

TEN LARGEST HOLDINGS

| Crowdstrike Holdings Inc | 0.7% Snowflake li | nc | 0.4% |
|---------------------------|-------------------|--------|------|
| Sprint Capital Corp | 0.5% HCA Inc | | 0.4% |
| Occidental Petroleum Corp | 0.4% Intuit Inc | | 0.4% |
| BX Trust 2021-ARIA | 0.4% Trex Co Inc | | 0.4% |
| Kraft Heinz Foods Co | 0.4% MEG Energy | / Corp | 0.4% |

Nuveen High Yield Income Fund

Investment Description: A total fixed income market approach to investing, focused on USD high yield and bank loans to provide attractive risk adjusted returns over a full market cycle. The strategy seeks to outperform the broader high yield bond market through providing more high yield market during market sell-offs and attr bond management. Typically invests in more liqu

Top 1

| Sector all | ocation | (%) ² |
|------------|---------|------------------|
|------------|---------|------------------|

| | Fund net assets |
|---------------------------------|--------------------|
| U.S. High Yield Corporates | 62.5 |
| Senior Loans | 17.5 |
| Non-US DM High Yield Corporates | 8.9 |
| Emerging Market Debt | 1.0 |
| Preferred | 0.9 |
| Investment Grade Corporates | 0.0 |
| Other Sectors | 1.1 |
| Cash and Equivalents | 8.2 |
| | |

Credit quality (%)³

| | Fund net assets |
|----------------------|--------------------|
| BBB | 0.0 |
| BB | 29.5 |
| В | 48.5 |
| CCC | 11.9 |
| CC | 0.9 |
| NR | 1.2 |
| Cash and Equivalents | 8.2 |

*Data based on Nuveen's 12-31-21 Fact Sheet



| y seeks to outperiorni the bio | | | | | | | | | |
|---|-----|--------------------------------|----------------------------|--------|-----------|---------|------------|-------|--------|
| nore downside protection than the d attractive income, through active e liquid issuers. | | | Coup | on | | | 5. | 49% | , ວ |
| | | | Avg. (| Cred | it Qu | ality | В | | |
| | E | ffect | ive [| Durati | on | 3. | 4 yr | s. | |
| | | 1 | Yr. | 3 | Yrs. | 5 | o Yrs. | 1 | 0 Yrs. |
| NCSRX | Х | | 7% | 7 | '.3% | ļ | 5.5% | | 6.3% |
| BBG Barclays Int. G/C | | -1. | 4% | 3 | 8.9% | 4 | 2.9% | | 2.4% |
| | 2 | 2021 | 20 |)20 | 20 | 19 | 201 | 8 | 2017 |
| NCSRX | 6 | .7% | 2. | 1% | 13.4 | 1% | -0.5% | % | 6.2% |
| BBG Barclays Int. G/C - | | .4% | 6. | 4% | 6.8 | 3% | 0.9% | % | 2.1% |
| Гор 10 Holdings | | | | | | | | | |
| Imola Merger Corp 1.4% | | | Revlon Consumer Products 1 | | | | 1.0% | | |
| Occidental Petro | 1.3 | 1.3% Tenet Healthcare Corp | | | | 0.9% | | | |
| Finastra USA Inc. | 1.0 | 1% | | С | lear Chan | inel Ou | tdoor Hole | dings | 0.9% |
| Ahead DB Holdings | 1.0 | 1.0% Primo Water Holdings 0.8% | | | | | 0.8% | | |
| CCO Holdings | 1.0 | 0% Surgery Center 0.8% | | | | | 0.8% | | |

Ticker

Expense Ratio

NCSRX

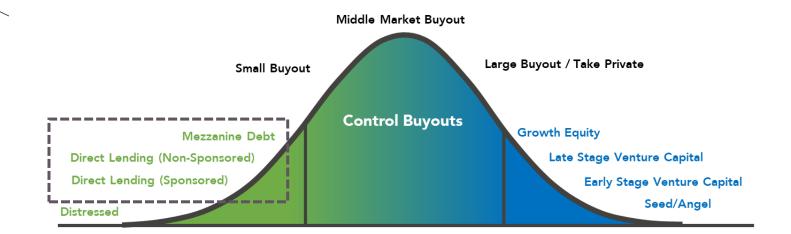
0.63%



Private Markets Introduction

- Private markets includes privately held debt and equity investments
- The global private equity and debt industry currently manages approximately \$3.0 trillion in assets, as the industry has doubled in size over the past decade
- Private markets are broken down into five investment categories:
 - Venture Capital
 - Growth Equity
 - Buyout
 - Private Debt
 - Distressed

Private markets segmentation



VALUE ORIENTED

.

GROWTH ORIENTED

| Sub Category | Expected Return | Financing | Duration of Investment | Relative Risk | Stage | Success Rate | Ownership Stake |
|--------------------|--------------------|----------------|---------------------------|-----------------|-----------------------|--------------|--------------------|
| Venture Capital | 20%+ | 100% Equity | 5 years + | High | Early | Low | Less than 50% |
| Growth Equity | 15% - 20% | 100% Equity | 3-5 years + | Medium- High | Early Growth | Medium | Less than 50% |
| Buyout | 13% – 20% | 100% Equity | 3–5 years + | Medium | Mature | Medium | More than 50% |
| Private Debt | 7% – 15% | 100% Debt | 1–5 years + | Low | Mature | High | None |
| Distressed | Varies | Varies | 1–5 years + | Low - Medium | Mature – Declining | Medium | 0 – 100% |

Source: Marquette Associates. This table represents Marquette's best estimate of typical returns, risk, duration, and investment style of each investment category.



Private Debt: Introduction

- Private debt are loans originated by non-bank lenders for private and public companies
- Private debt is an established asset class which has existed for decades. Historically these loans were issued by national and regional banks but due to regulatory constraints, these banks have significantly reduced their exposure and investment managers have filled this void
- For investors, these loans can be accessed across the capital structure from senior secured loans to junior capital tranches
- Over the past decade, private debt has provided attractive income (+8%), yielding more than public fixed income
- The majority of private debt offers an interest rate hedge (inflation hedge) while having a duration of three to five years

Private Debt characteristics

Provides an allocation to an area of the market less accessed in public credit

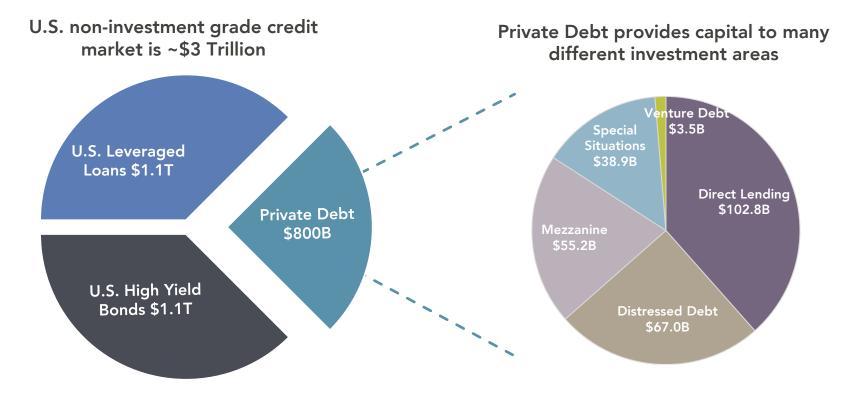
| High Yield Bonds | Private Debt | Bank Loans |
|---------------------------------|---|--|
| | (Direct Lending, Mezzanine, Distressed, Special Situations, Venture Debt) | |
| 7–10+ Years | 3–5 Years | 3–6 Years |
| Subordinate | Both (Senior & Subordinate) | Senior |
| Unsecured | Both (Secured & Unsecured) | Secured |
| Fixed Rate | Floating Rate | Floating Rate |
| \$300M-\$2B EBITDA ¹ | \$5M-\$100M EBITDA ¹ | \$300M-\$2B EBITDA ¹ |
| ~\$500M | ~\$5M–\$100M | ~\$400M |
| Bank Origination | Non-Bank / Asset Mgr Origination | Bank Origination |
| | 7–10+ Years Subordinate Unsecured Fixed Rate \$300M–\$2B EBITDA ¹ ~\$500M | Special Situations, Venture Debt)7–10+ Years3–5 YearsSubordinateBoth (Senior & Subordinate)UnsecuredBoth (Secured & Unsecured)Fixed RateFloating Rate\$300M-\$2B EBITDA1\$5M-\$100M EBITDA1~\$500M~\$5M-\$100M |

Source: Preqin; ¹ The Annual Manual; U.S. Leveraged Finance Primer



The private debt market

Private Credit is a well established and diversified asset class

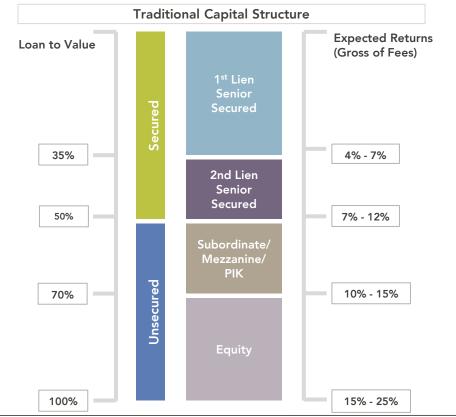


Source: Fortress



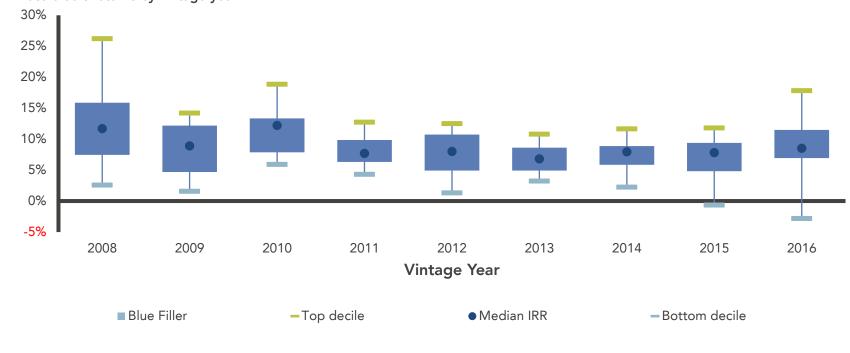
Traditional private business capital structure

Senior capitalized 1st lien loans have attractive relative yields (4-7%). When adding fund leverage, they have historically generated double-digit net returns. In contrast, lower capital tranches have double digit return projections (7-12%) but also increased financial risks (ie. credit, liquidity and market) relative to 1st lien loans.



Stable vintage year performance

For nearly 10 years, private credit has provided investors with a stable return, producing average returns over 8% on an annual basis. This consistent performance, provides a strong complement to traditional fixed income.



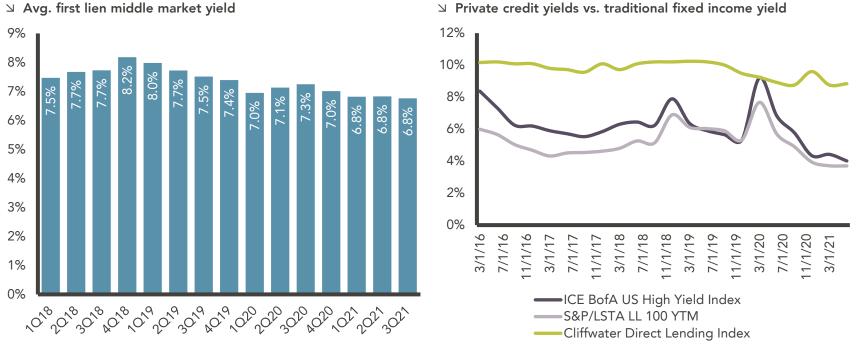
↘ Private credit returns by vintage year

Source: Pitchbook



Private credit premiums hold steady

Relative to high yield bonds, private credit is higher in the capital structure and provides ~200bps of yield premium. Compared to 10-year Treasury yields, private credit offers more than 550 bps of yield premium.



↘ Avg. first lien middle market yield

Sources: ICE BofA, Cliffwater, S&P LSTA, Refinitiv LPC



Open-ended Private Market Investments

Access to private market investments with more frequent liquidity

- Fund of funds:
 - Private Credit: senior direct and senior syndicated loans, may hold opportunistic public credit for liquidity and on-going market opportunities
- Globally diversified
- Evergreen fund structure
- Liquidity terms
 - Private debt: Quarterly redemption and monthly inflows
- Fees charged on committed capital only

*Redemptions will first be met with subscriptions on a quarterly basis. Annually, redemptions not met with subscriptions will be placed in an annual runoff sleeve in an amount up to 25% of the NAV of the master fund.



Advantages of Open-ended Private Market Vehicles

Challenges of Closed-end

- Investment lag between fund commitment and capital being called
- Distributions create cash drag and challenges to hit target return
- Closed end funds are illiquid with 8-10+ year fund life
- Concentration in underlying funds lack diversification
- o Fees charged on committed capital, not ✓ Fee just capital invested

Open-end Solution

- Immediate exposure to a diversified portfolio, reduces j-curve
- Flexibility to reinvest fund distributions or receive them
- More liquid vehicle, quarterly redemption
- Day 1 invested: Diversified by sector, region and vintage year
- not 🗸 Fees only charged on invested capital



Asset Class Assumptions

Police Pension Return Target: 7.10% | Non-Uniform Pension Return Target: 6.75%

| | 12/31/2021 | | | |
|-----------------------------|-------------------------------|-----------------------------|--|--|
| | 10 Year Return Assumptions | 10 Year Risk Assumptions | | |
| U.S. Equity | · · · · · | | | |
| U.S. Large Cap Core | 7.0% | 18.4% | | |
| U.S. Mid Cap Core | 7.2% | 19.2% | | |
| U.S. Small Cap Value | 8.1% | 20.6% | | |
| Non-US Equity | | | | |
| Broad Non-U.S. Equity | 7.4% | 24.0% | | |
| Broad Non-U.S. Equity Value | 7.1% | 26.0% | | |
| Developed Small Cap | 7.5% | 29.2% | | |
| Emerging Markets | 7.4% | 34.2% | | |
| Global Equity | | | | |
| Global Equity | 7.4% | 21.2% | | |
| Global Low Volatility | 6.7% | 13.0% | | |
| Defensive Equity | | | | |
| Defensive Equity | 6.1% | 10.3% | | |
| Real Estate | | | | |
| Core Real Estate | 6.5% | 5.2% | | |
| Fixed Income | | | | |
| Int Govn't/Credit | 1.6% | 1.4% | | |
| Opportunistic Credit | 5.6% | 6.4% | | |
| Private Credit | 9.6% | 8.2% | | |

Data from Marquette Asset Allocation Studies



Asset class outlook for the next 6 to 12 months

| | | CHANGE | HEADV | VINDS | NEUTRAL | TAILV | /INDS |
|----------------------|--------------------------|--------|-------|-------|---------|-------|-------|
| | Large-cap | | | | | | |
| ities | Mid-cap | | | | | | |
| U.S. Equities | Small-cap | | | | | | |
| U.S. | Value | | | | | | |
| - | Growth | | | | | | |
| S. | Developed large-cap | | | | | | |
| Non-U.S. Equities | Developed small-cap | | | | | • | |
| Ňщ | Emerging markets | • | | | | | |
| | Core bonds | | | | | | |
| Fixed ncome | Bank loans | | | | | | |
| Fixed | High yield | | | | | | |
| | EMD | | | | | | |
| sets | Core real estate | | | | | | |
| Real Assets | Value-add real estate | | | | | | |
| Rea | Infrastructure | | | | | | |
| Φus | Equity long/short | | | | | | |
| Hedge Funds | Credit | | | | | | |
| | VRP | | | | | | |
| Private Equity | Buyout | | | | | | |
| Priv Equ | Venture Capital | | | | | | |
| ate dit | Direct lending | | | | | | |
| Private Credit | Distressed/opportunistic | • | | | | | |

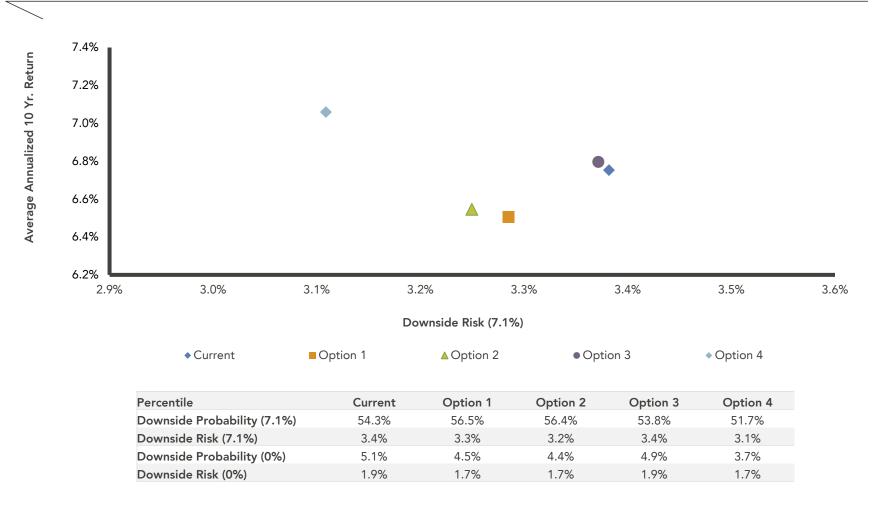
TAKEAWAYS

- U.S.: Increasingly restrictive monetary policy and the potential for prolonged inflation could drive volatility higher for U.S. equity markets in 2022. Specifically, a rise in interest rates could be particularly detrimental to growth-oriented equities, which have already undergone repricing in recent weeks. Small-cap value continues to present possible opportunities, as the space currently exhibits relatively attractive multiples and may benefit from an uptick in rates given the extent to which it is comprised of companies in the financials sector. Finally, it is important to remember that future U.S. equity market returns will likely not keep pace with those of recent years, which have been historic in magnitude.
- Non-U.S.: Central banks in developed countries are expected to start raising rates, joining several emerging market countries that started the hike cycle in 2021. With higher inflation and higher interest rates, we expect a stronger U.S. dollar in the short term. Historically EM equities have a negative correlation with dollar movement, so we expect this to be a headwind for shorter-term performance. Additionally, there are several geopolitical events where bad news is likely to have an outsized negative impact on EM compared to DM. For these reasons we are downgrading EM. On the flip side, we think a rising rate environment may favor developed non-U.S. stocks. These markets feature more exposure to financials and other cyclicals that can benefit from higher interest rates.
- Fixed Income: Rates are low, spreads are tight, and the Fed is expected to hike rates during 2022. However, credit fundamentals are healthy, and defaults are low. Bank loans' floating rate mechanism should help to preserve value as rates rise and inflation remains high. EMD has further runway for spread tightening and presents the most attractive valuation among fixed income sectors. Core bonds are still reliable for liquidity and downside protection in the event of a market correction.
- Real Assets: Relative outperformance opportunities are expected to exist in a post-pandemic environment within industrial, multifamily, and select specialty sectors. However, increasing inflationary concerns and a rising interest rate environment may exert downward pressure on valuations across most sectors. Investors should continue to allocate to infrastructure as an effective vehicle to manage long-term liabilities and inflation.
- Private Equity: Private equity remains an attractive asset class with superior upside potential. Particularly attractive are the small buy-out and early-stage venture sectors while we are cautious on late-stage venture. Risks to monitor; increasing competition for assets and the impact of macro risks on the asset class, including but not limited to rising rates, wage pressures, and inflation.
- Private Credit: Direct lending is an attractive asset class against the backdrop of increased inflation and a potential rising rate environment, given a majority of loans contain floating interest rates linked to LIBOR. Investors continue to benefit from a strong structure and yield premium relative to traditional fixed income in a yield-starved environment. Distressed and opportunistic investment opportunities are few and far between in the current market and do not exhibit strong risk and reward dynamics compared to direct lending.

For illustration only. These views apply to a 6- to 12-month horizon; arrows in Change column represent change in view since last quarter. This summary of individual asset class views shows relative direction and strength of conviction but is independent of portfolio construction considerations. These views should not be construed as a recommended portfolio or investment advice. Past performance does not imply future returns.



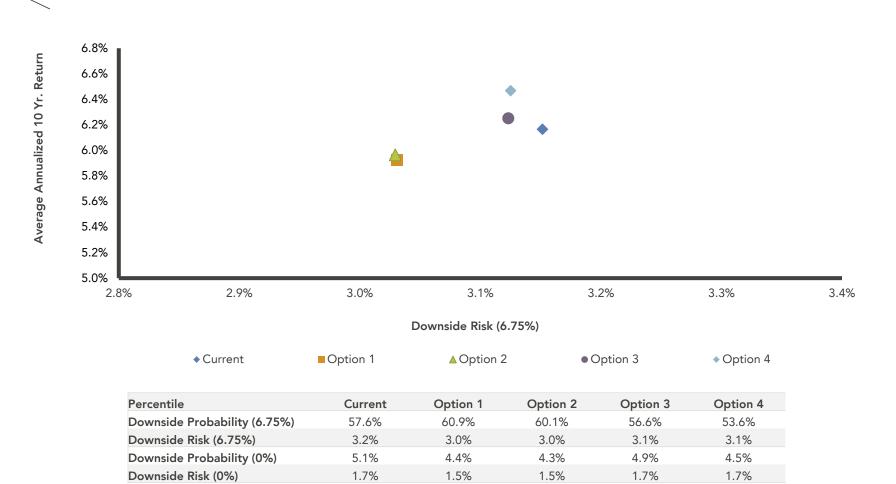
Police: Avg Ann. 10 Yr. Return/Downside Risk



Source: Marquette Associates - 12-31-21 Asset Allocation Study



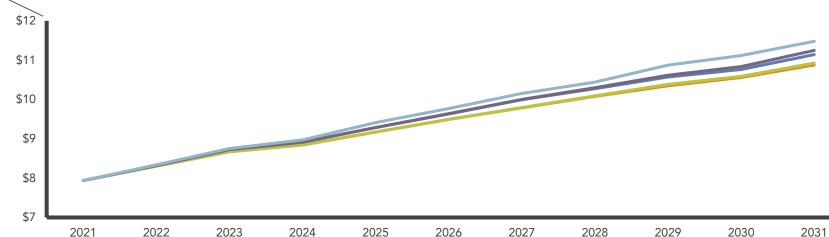
Non-Uniform: Avg Ann 10 Yr Ret/Downside Risk



Source: Marquette Associates - 12-31-21 Asset Allocation Study



Non-Uniform: Med Projected Mrkt Value of Portfolios (\$M)



| Year | Current | Option 1 | Option 2 | Option 3 | Option 4 |
|------|---------|----------|----------|----------|----------|
| 2022 | \$8.3 | \$8.3 | \$8.3 | \$8.3 | \$8.3 |
| 2023 | \$8.7 | \$8.7 | \$8.7 | \$8.7 | \$8.8 |
| 2024 | \$8.9 | \$8.8 | \$8.8 | \$8.9 | \$9.0 |
| 2025 | \$9.3 | \$9.2 | \$9.2 | \$9.3 | \$9.4 |
| 2026 | \$9.6 | \$9.5 | \$9.5 | \$9.6 | \$9.8 |
| 2027 | \$10.0 | \$9.8 | \$9.8 | \$10.0 | \$10.2 |
| 2028 | \$10.3 | \$10.1 | \$10.1 | \$10.3 | \$10.4 |
| 2029 | \$10.6 | \$10.3 | \$10.4 | \$10.6 | \$10.9 |
| 2030 | \$10.8 | \$10.6 | \$10.6 | \$10.8 | \$11.1 |
| 2031 | \$11.1 | \$10.9 | \$10.9 | \$11.2 | \$11.5 |

Note: Liability and benefit projections based on data from Conrad Siegel. Information based on Asset Liability Study: 12-31-2021

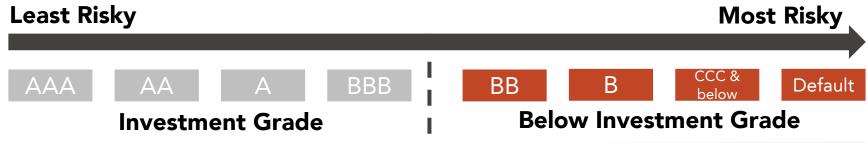
Fixed Income: Defining the Asset Class

Investment Grade (Int Gov/Credit)

- Instrument that allows governments, companies and other types of issuers to borrow money from investors. Perceived to be less risky than below investment grade, given the inherent underlying fundamentals for the issuer (higher principal security and better liquidity)
- **Investment Grade Bonds provide:**
 - **Regular and dependable cash flows**
 - Principal protection especially in market downturns
 - **Diversification benefits to equity** portfolios (low correlation)

Below Investment Grade

- Below investment grade bonds offer a higher yield than investment grade bonds because of their higher risk of default
- These bonds fall between investment grade bonds (core bonds) and public equities in their risk/return spectrum
- Below Investment Grade bonds have historically outperformed core bonds and underperformed equities in periods of economic advancement and underperformed core bonds and outperformed public equities during market corrections
- Diversifying by bond type (high yield corporates, bank loans and EM Debt), by issuer, industries and regions can alleviate downside risks and enhance risk adjusted returns



Historical statistics – since 1992

Bank Loans and High yield bonds feature higher volatility than core bonds, but higher risk-adjusted returns than equities

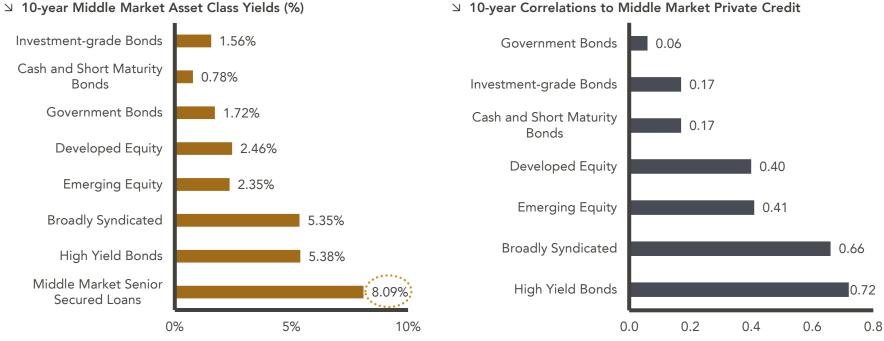
| | Since Inception Annualized | | | | |
|---------------|----------------------------|--------|--------------|--|--|
| | Avg. Return | St Dev | Sharpe Ratio | | |
| Core Bond | 5.4% | 3.5% | 0.84 | | |
| Bank Loans | 5.5% | 5.4% | 0.55 | | |
| High Yield | 7.7% | 8.2% | 0.62 | | |
| U.S. Equities | 10.8% | 14.8% | 0.56 | | |

Source: Markov Processes International. Data are through December 31, 2021.



Private debt historical yield & correlations

Middle market loans have offered high yields and exhibited limited correlation to public market asset classes



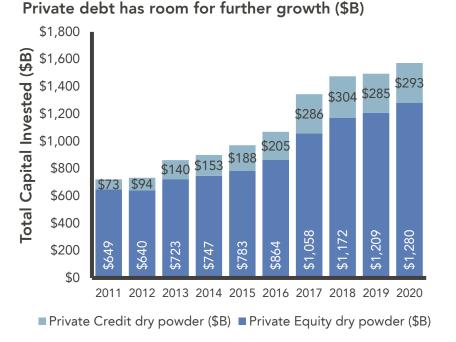
□ 10-year Correlations to Middle Market Private Credit

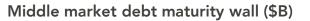
Source: Churchill Asset Management; Middle market loans: S&P LSTA Middle Market Index; HY bonds: S&P LSTA BB-B Index; Broadly syndicated: S&P LSTA Loan 100 Index; Emerging equity: MSCI EM; Developed equity: MSCI World; Cash: Barclays Global Treasury 1-3 Year; Government bonds: Bloomberg Barclays Global Treasury 7-10 Year; for the 10-year period ending 31 Mar 2019.

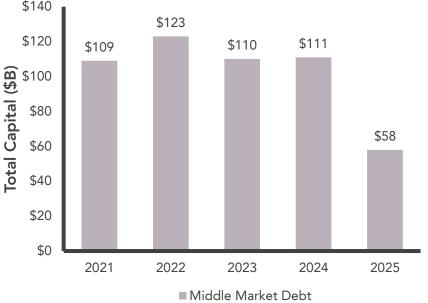


Visible and increasing demand for private debt

- Private equity dry powder is increasing as fundraising totals continue to grow. Sponsors have a
 greater need to put capital to work; this pent-up capital will require the financing needs of
 private debt
- Significant debt refinancing with visible maturity cliff in the years ahead as over \$550 billion in debt will terminate by 2025, creating additional opportunity for private debt managers



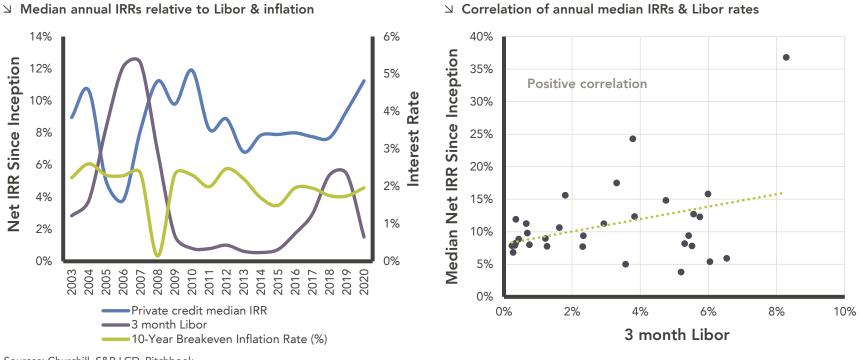




Sources: Pitchbook and Annaly

Inflation & Libor: How it impacts private credit

Floating interest rates and Libor floors are synonymous with private credit investments. Historically, there is a positive correlation between private credit IRRs and increasing Libor rates. Furthermore, there is a positive correlation amongst inflation and Libor rates.



☑ Correlation of annual median IRRs & Libor rates

Sources: Churchill, S&P LCD, Pitchbook



Stress Scenarios

Baseline: Normal market conditions. Note the results of this scenario may differ from the asset allocation study: the asset allocation study is a stochastic Monte Carlo simulation whereas the stress scenarios are deterministic.

2008 Financial Crisis (October 2007 – Feb 2009): The financial crisis of 2007–09 is considered by many economists to have been the worst financial crisis since the Great Depression of the 1930s. It threatened the collapse of large financial institutions, which was prevented by the bailout of banks by national governments, but stock markets still dropped worldwide. Equities around the world dropped 40% - 50% and the 10-year U.S. Treasury fell from 4.5% to 3.1%.

Black Monday (October 1987): On Monday, October 19, 1987, stock markets around the world crashed. The crash began in Hong Kong and spread west to Europe, hitting the United States after other markets had already declined by a significant margin. The Dow Jones Industrial Average (DJIA) fell exactly 508 points to 1,738.74 (-22.6%) and the 10-year U.S. Treasury dropped from 9.6% to 8.9%.

2011 U.S. Debt Ceiling Crisis and Downgrade (June through September 2011): The United States debt-ceiling crisis of 2011 was a stage in the ongoing political debate in the United States Congress about the appropriate level of government spending and its effect on the national debt and deficit. Ultimately, this led to the credit-rating agency Standard & Poor's downgrading the credit rating of the United States government for the first time in the country's history. The S&P 500 declined by almost 15%.

1994 Interest Rate Spike (December 1993 - December 1994): Yields on 30-year Treasuries jumped some 200 basis points in the first nine months of the year, hammering investors and financial firms. The accepted story is that an over-eager Federal Reserve raised interest rates too soon. Equities fell slightly with the S&P 500 down 1.5%.

1981 Interest Rate Spike (July 1980 – July 1981): The 1970's and early 80's featured stagnant growth coupled with high inflation (i.e. stagflation). In an effort to help contain the rampant inflation, the newly elected Fed Chairman, Paul Volcker, undertook a rapid series of rate hikes. While this process was ultimately successful - inflation dropped from 14.8% in March of 1980 all the way down to 3% by 1983 - the rapid rates decimated many fixed income investors, as the 10-year U.S. Treasury yield rose from 10.3% to 14.3%. However, equities were strong during this time, with the S&P 500 up over 7.5%.

Interest Rates Rise 1% for 1 Year: Treasuries up 1% in year 1 and flat in years 2 and 3.

Interest Rates Rise 1% Annually for 3 Years: Treasuries up 1% for each of the 3 years.

Equities Decline 20% for 1 Year: This is the definition of a bear market. Assumes that corporate spreads widen out by 1% as well, which is roughly the average spread change during equity downturns. Equities are as expected for years 2 and 3, while spreads remain unchanged.

Equities Decline 15% Annually for 3 Years: Equities fall 15% in each of the 3 years with corporate spreads widening 1% each year. This is designed to model out a prolonged downturn in the market.

Perfect Storm for 1 Year: Treasuries and spreads increase 1% in year 1, flat in years 2 and 3. Equities fall 20% in year 1 and as are expected for year 2 and 3.

Perfect Storm for 3 Years: Treasury and spreads increase 1% in each of the 3 years. Equities fall 15% each year.



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