



**PERSPECTIVES
THAT DRIVE
ENTERPRISE
SUCCESS**



PERIOD ENDING: MARCH 31, 2019

Investment Performance Review for

Western States Office and Professional Employees' International Union Pension Plan

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Investment Landscape

TAB I

Investment Performance
Review

TAB II



**PERSPECTIVES
THAT DRIVE
ENTERPRISE
SUCCESS**

2ND QUARTER 2019
Investment Landscape

Recent Verus research

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Sound thinking

FOUR RULES OF OUTSOURCING

The choice to use the services of an Outsourced Chief Investment Officer (OCIO) provider is one of the most significant decisions that a board is likely to make. This piece is focused on the four most important rules that Verus believes investors should understand, and OCIO providers should deliver upon.

Annual outlooks

CAPITAL MARKET ASSUMPTIONS

Verus held the first Capital Market Assumptions Webinar. On the call, we discussed:

- How market shifts of 2018 have affected our long-term outlook
- Why the current environment continues to indicate modest long-term performance across most asset classes
- The important differences between shorter-term and longer-term forecasting exercises

ACTIVE MANAGEMENT ENVIRONMENT

Our work on active management addresses some shortfalls of the traditional analysis, which uses the median product to describe the active management universe as a whole. These improvements and insights have allowed us to better understand product behavior and may allow for more informed selection in the future.

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1st quarter summary

THE ECONOMIC CLIMATE

- Real GDP growth continued at 3.0% YoY - on pace with the third quarter (2.2% quarterly annualized rate). Forecasts for 2019 U.S. growth have weakened. The U.S. economy is expected to grow at a 2.4% pace in 2019, according to the Survey of Professional Forecasters, while the Federal Reserve expects 2.1% growth this year. [p. 8](#)
- In March, negotiations resumed between U.S. and Chinese trade delegations. The dialogue was viewed as constructive, and optimism picked up for a trade resolution being reached in the near-to-intermediate future. The two sides have yet to agree on a formal timeline. [p. 16](#)

PORTFOLIO IMPACTS

- The Federal Open Market Committee reiterated its “patient” approach to policy, leaving rates unchanged, helping to push asset prices upward. Chairman Powell announced that starting in May the balance sheet runoff would slow from \$50 to \$30 billion a month, and would end in September. [p. 19](#)
- Risk assets exhibited strong performance over the quarter. U.S. equities delivered the greatest gains (S&P 500 +13.6%, MSCI ACWI +12.2%), reversing U.S. underperformance in Q4 2018 (S&P 500 -13.5%, MSCI ACWI -12.8%). This was followed by riskier credit with high single-digit returns, and safer credit and government bonds with low single-digit returns. [p. 46](#)

THE INVESTMENT CLIMATE

- The first quarter was nearly a mirror image of 2018 Q4, as many assets retraced losses of the prior quarter. [p. 38](#)
- Declining long-term Treasury yields following the Fed meeting in March briefly caused the yield curve to invert, meaning that short-term yields (3-month) were higher than long-term yields (10-year). Investors have expressed concerns that this may signal a near term recession. We believe these concerns are overblown. [p. 21](#)
- The House of Commons in the British Parliament briefly took control of their government’s legislative agenda, but failed to reach a majority vote on a path forward. On April 10th, British Prime Minister Theresa May and the European Council agreed to extend the Brexit deadline from April 12th to October 31st. [p. 17](#)

ASSET ALLOCATION ISSUES

- All major asset classes delivered positive performance in Q1, a refreshing change of pace from broad-based losses experienced in 2018. [p. 46](#)
- Economic conditions around the world have exhibited a weakening trend, leading to the question of whether a turn in the economic cycle is near. The first quarter was more mixed with strength in places, easing some concern. We remain watchful of this weakening trend, but believe the economy and market may have more room to run. [p. 17](#)

A neutral risk stance may be appropriate in today’s environment

What drove the market in Q1?

“Central banks take to stage as dovish outlooks spread”

MARKET EXPECTATIONS FOR 1-YEAR CHANGE IN FED FUNDS RATE (BPS)

Oct	Nov	Dec	Jan	Feb	Mar
62	48	10	-10	-5	-31

Article Source: Bloomberg, February 16th, 2019

“Slowing earnings growth, gloomy forecasts add to stock market’s woes”

S&P 500 INDEX 12-MONTH FORWARD EPS ESTIMATE (\$)

Oct	Nov	Dec	Jan	Feb	Mar
175	175	174	171	171	172

Article Source: Wall Street Journal, January 13th, 2019

“Part of the yield curve inverts as 3-month yield tops 10-year rate”

10-YEAR MINUS 3-MONTH TREASURY YIELD SPREAD (BPS)

Oct	Nov	Dec	Jan	Feb	Mar
82	65	33	25	28	2

Article Source: CNBC, March 22nd, 2019

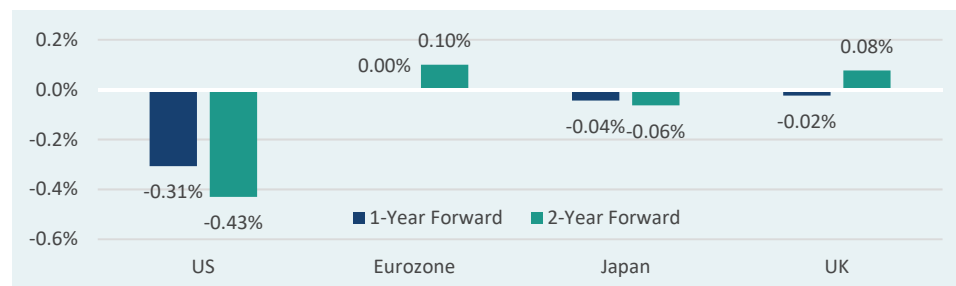
“World markets hit 2019 high amid trade war optimism”

NUMBER OF GOOGLE NEWS ARTICLES WITH ‘TRADE OPTIMISM’ IN TITLE

Oct	Nov	Dec	Jan	Feb	Mar
5	24	31	92	116	96

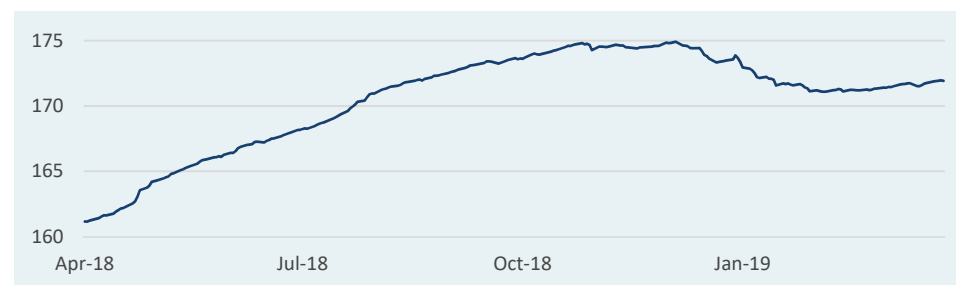
Article Source: The Guardian, February 18th, 2019

MARKET EXPECTATIONS FOR CHANGES IN SHORT-TERM RATES



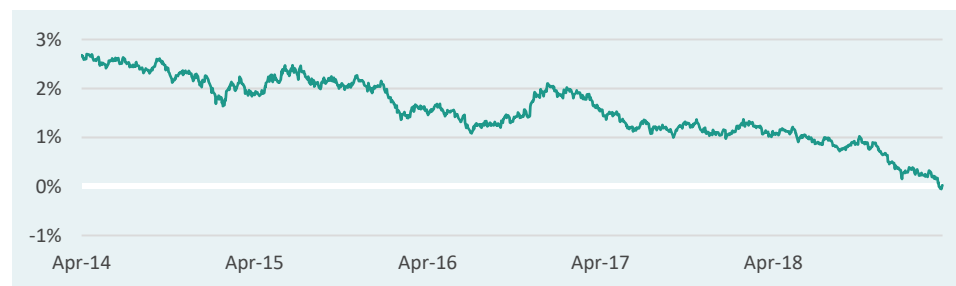
Source: Bloomberg, as of 4/2/19

S&P 500 INDEX 12-MONTH FORWARD EPS ESTIMATE



Source: Bloomberg, as of 3/31/19

10-YEAR MINUS 3-MONTH TREASURY YIELD SPREAD



Source: Bloomberg, as of 3/31/19

Economic environment

U.S. economics summary

- Real GDP growth continued at 3.0% YoY, on pace with the third quarter (2.2% on a quarterly annualized rate).
- Forecasts for 2019 U.S. growth have weakened. The U.S. economy is expected to grow at a 2.4% pace in 2019, according to the Survey of Professional Forecasters, while the Federal Reserve expects 2.1% growth this year.
- In March, negotiations resumed between U.S. and Chinese trade delegations. The dialogue was viewed as constructive, and optimism picked up for a formal trade resolution being reached in the near future.
- U.S. inflation remained near the 2.0% Fed target. After dipping to 1.5% YoY in February, headline inflation recovered to 1.9% in March, resulting in no change over the quarter.
- Average hourly earnings grew 3.2% YoY in March, missing expectations of 3.3%. A slight tick up in the average non-farm private workweek from 34.4 to 34.5 hours likely contributed to the cooler wage data.
- The labor market remained strong in Q1. U-3 unemployment fell to 3.8% from 3.9% in December, though the labor force participation rate weakened from 63.1% to 63.0% during the period.
- The Federal Open Market Committee reiterated its “patient” approach to policy, leaving rates unchanged. Expectations for 2019 GDP growth and rate hikes were cut, and markets rallied. Chairman Powell announced that starting in May the balance sheet runoff would slow from \$50 billion per month to \$30 billion, and would end in September.

	Most Recent	12 Months Prior
GDP (YoY)	3.0% <i>12/31/18</i>	2.5% <i>12/31/17</i>
Inflation (CPI YoY, Core)	2.0% <i>3/31/19</i>	2.1% <i>3/31/18</i>
Expected Inflation (5yr-5yr forward)	2.0% <i>3/31/19</i>	2.2% <i>3/31/18</i>
Fed Funds Target Range	2.25 – 2.50% <i>3/31/19</i>	1.50 – 1.75% <i>3/31/18</i>
10 Year Rate	2.4% <i>3/31/19</i>	2.7% <i>3/31/18</i>
U-3 Unemployment	3.8% <i>3/31/19</i>	4.0% <i>3/31/18</i>
U-6 Unemployment	7.3% <i>3/31/19</i>	7.9% <i>3/31/18</i>

GDP growth

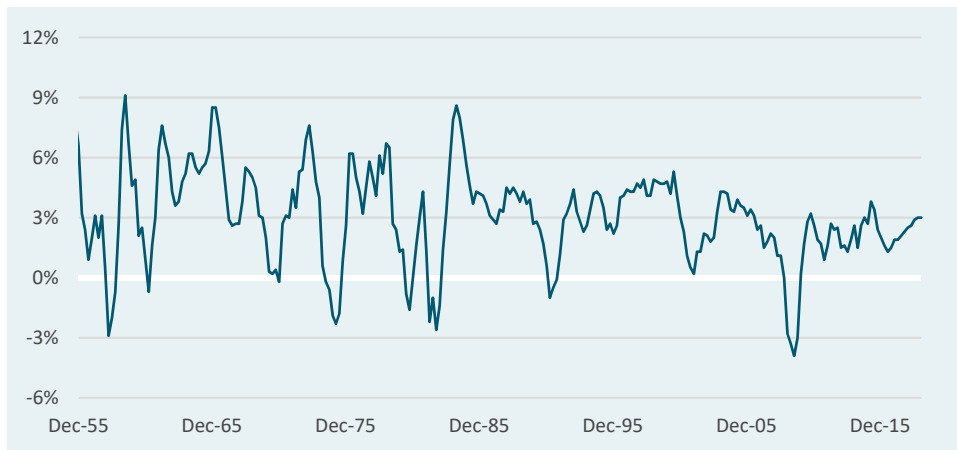
Real GDP growth continued at 3.0% YoY, on pace with growth in the third quarter (2.2% on a quarterly annualized rate). Consumption was the greatest contributor to real GDP growth.

The U.S. economy faces multiple headwinds, including the broad impacts of slowing global growth, fading of 2018 fiscal stimulus, and a tight labor market which constrains further upside from employment gains. While the U.S. is in a strong position relative to other developed nations, the economy is expected to grow at a 2.4% pace in 2019 according to a

survey of professional forecasters. The Federal Reserve expects 2.1% growth this year.

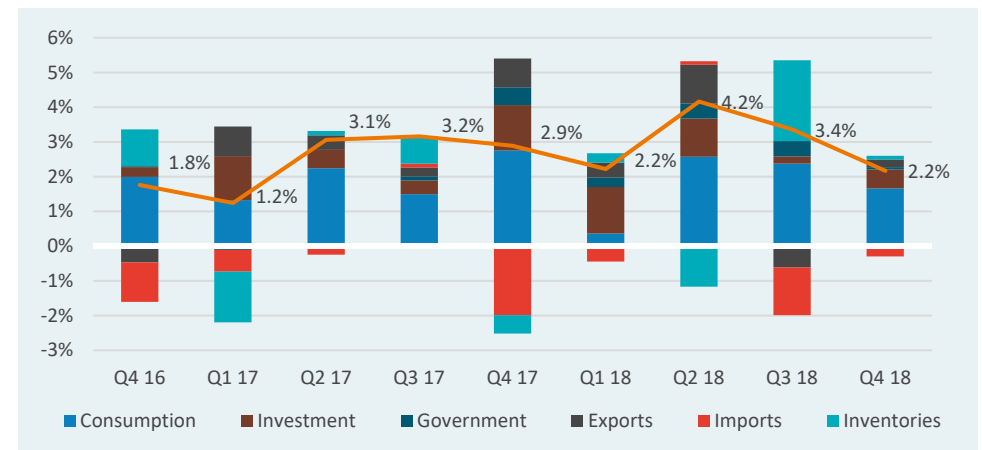
The Trump administration appears to have succeeded in reaching its 3% U.S. growth target during 2018. The Tax Cuts & Jobs Act helped stimulate the economy in the form of reduced taxes for individuals, which increased after-tax incomes and greatly reduced corporate tax burdens. These changes likely had positive impacts on worker wages and spurred recent capital investment.

U.S. REAL GDP GROWTH (YOY)



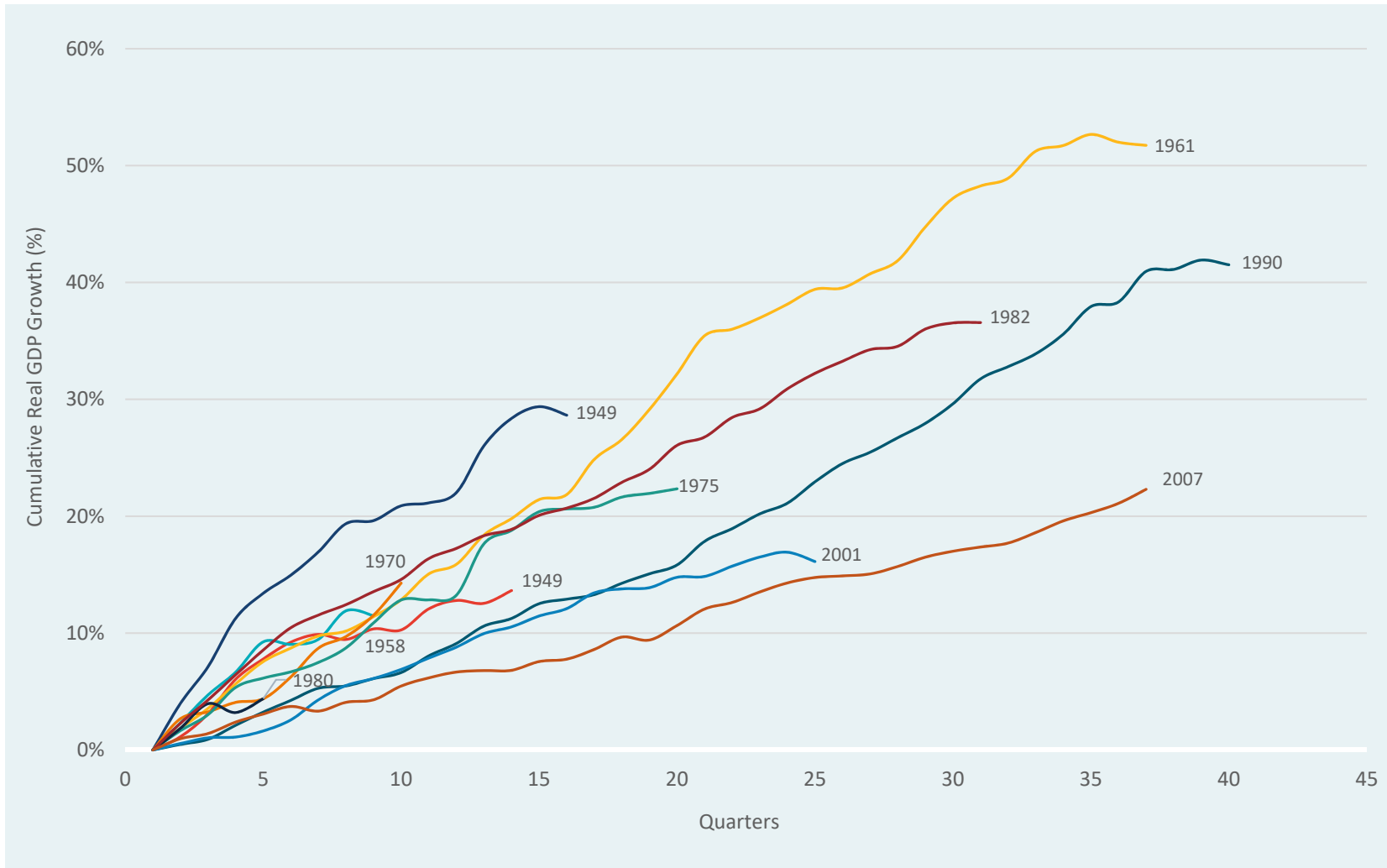
Source: Bloomberg, as of 12/31/18

U.S. GDP GROWTH ATTRIBUTION



Source: BEA, annualized quarterly rate, as of 12/31/18

A long but moderate expansion



The current economic cycle is just three quarters shy of matching the longest expansion on record

Source: FRED, Verus, as of 12/31/18 – each expansion is labeled with the starting year of expansion

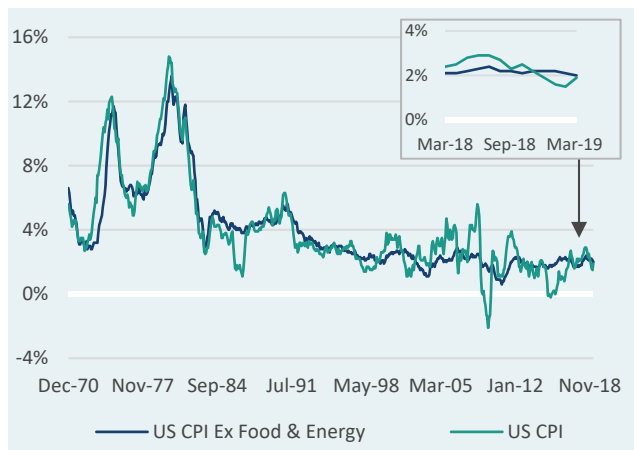
Inflation

U.S. inflation remained near the Federal Reserve's 2.0% target. After dipping to 1.5% YoY in February, headline CPI recovered to 1.9% in March, unchanged over the quarter. Core CPI, which removes the impact of energy and food prices, continued to ease, falling to 2.0% YoY at quarter-end. Moderate inflation around 2% has helped justify the Fed's recent pause in monetary tightening and has allowed for a patient approach. A material shift in either direction might place Fed officials in a difficult position, and should be watched closely.

Inflation in services was the sole contributor to the year-over-year growth in CPI as goods prices were unchanged during the period. Within services, shelter prices (+3.4% YoY) continued to be the main driver of inflation.

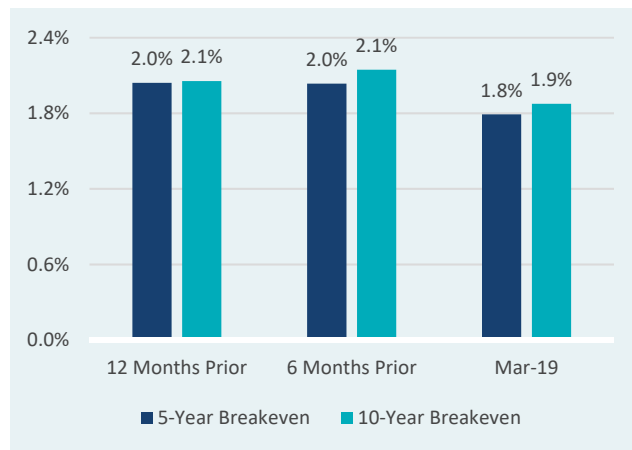
Market participants' expectations for future inflation recovered from depressed levels after falling sharply last quarter. The 10-year TIPS breakeven inflation rate rose 22 bps to 1.93%. Meanwhile, consumers' view of future inflation moderated from 2.7% to 2.5% as indicated by the University of Michigan survey.

U.S. CPI (YOY)



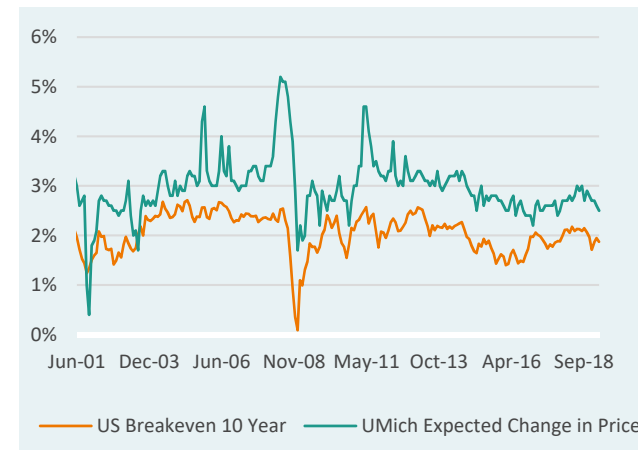
Source: Bloomberg, as of 3/31/19

BREAKEVEN INFLATION RATES



Source: FRED, as of 3/31/19

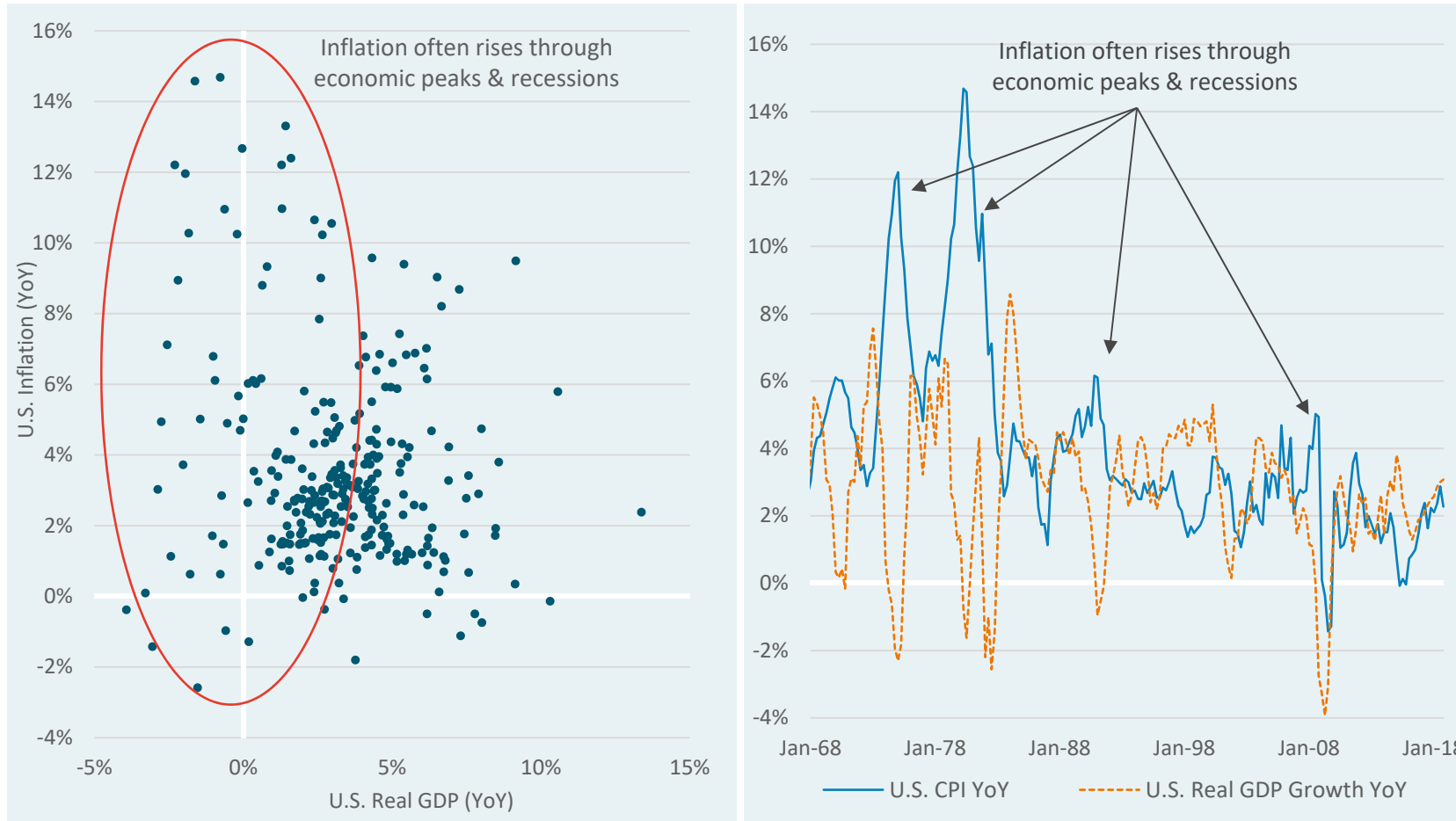
INFLATION EXPECTATIONS



Source: Bloomberg, as of 3/31/19

Relationship – inflation & growth

Inflation risk has been more acute during late cycle & recession



History suggests inflation risks are still present at the later stage of the economic cycle

Source: FRED, Verus

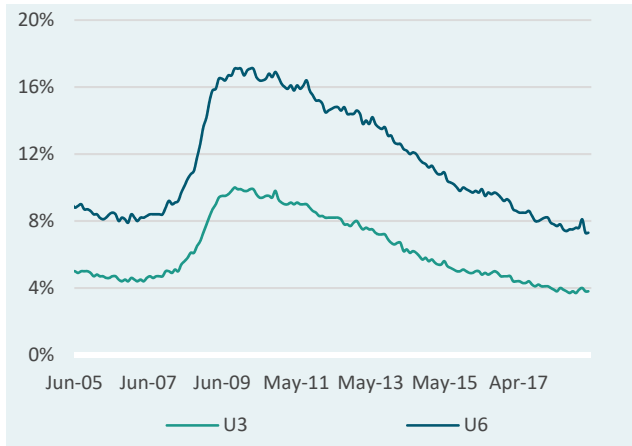
Labor market

Although there was some month-to-month volatility in job growth during the quarter, net additions to non-farm payrolls averaged 180,000 per month. Meanwhile, the U-3 unemployment rate fell slightly from 3.9% to 3.8%, just above the cycle low of 3.7%. The U-6 unemployment rate, which includes underemployed and discouraged workers, fell to a cycle low of 7.3%. The spread between the U-6 and U-3 unemployment rates compressed from 3.7% to 3.5%, the smallest difference since 2006. The decline in underemployed and discouraged workers indicates a further tightening of the labor market.

Wages continued to grow at a modest pace, but not fast enough to warrant concern over corporate margin deterioration or a flow through to general price inflation. In March, average hourly earnings rose 3.2% from 12 months ago.

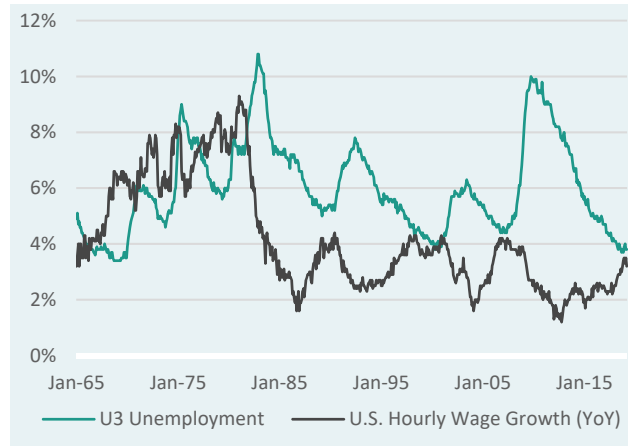
Given the relatively few number of unemployed persons and high percentage of companies reporting that jobs are hard to fill, we believe it may be difficult for job growth to continue at its recent strong rate.

UNEMPLOYMENT RATE



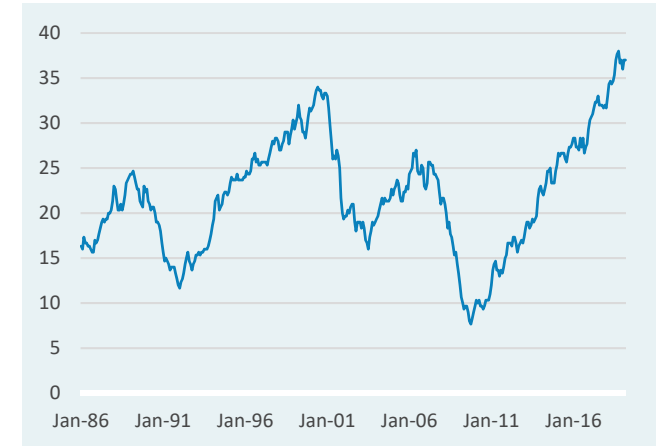
Source: FRED, as of 3/31/19

LONG-TERM EMPLOYMENT & WAGE GROWTH



Source: Bloomberg, as 3/31/19

NFIB: JOBS HARD TO FILL (3-MONTH AVG)



Source: NFIB, as of 3/31/19, net % of small businesses reporting that open positions are hard to fill

The consumer

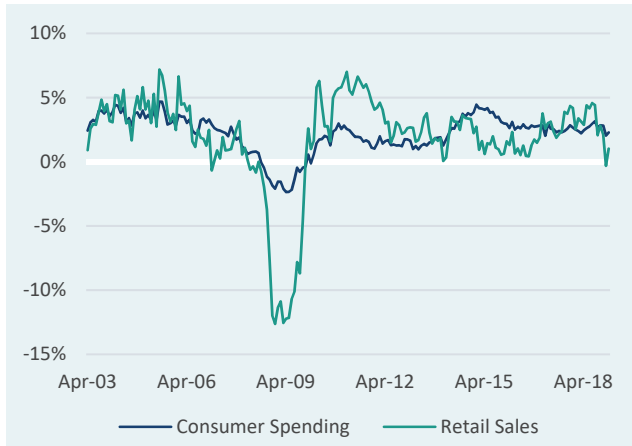
February retail sales grew 2.2% year-over-year, rebounding from a sharp slowdown in the fourth quarter. Real consumer spending continued along at a modest 1.8% pace from the previous year.

Further labor market strength, wage gains, and low interest rates would likely provide support for spending. Consumer behavior remains conservative relative to past cycles, as indicated by broad spending and borrowing patterns. While consumer credit growth has been fairly muted, other specific spending areas such as auto sales were very strong in recent

years – perhaps as consumers played catch-up from restrained purchases during the global financial crisis.

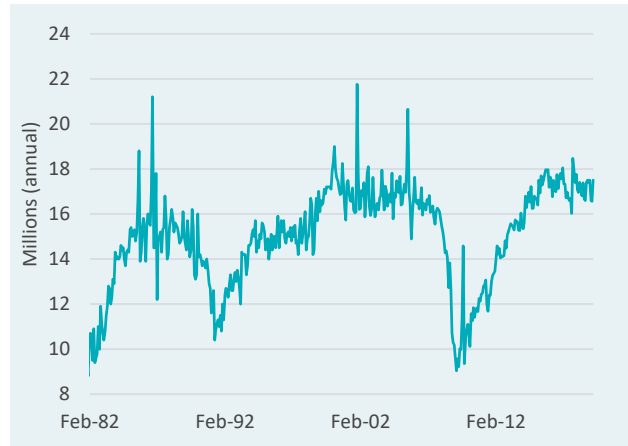
In 2018, there were rising concerns that higher interest rates would squeeze budgets and lead to a slowdown in spending and business activity. These fears have subsided as interest rates have fallen back to previous levels and the Federal Reserve is not expected to raise rates in the near future.

REAL CONSUMER SPENDING & RETAIL SALES GROWTH (YOY)



Source: Bloomberg, as of 1/31/19

AUTO SALES



Source: FRED, as of 3/31/19

CONSUMER CREDIT OUTSTANDING (YOY)



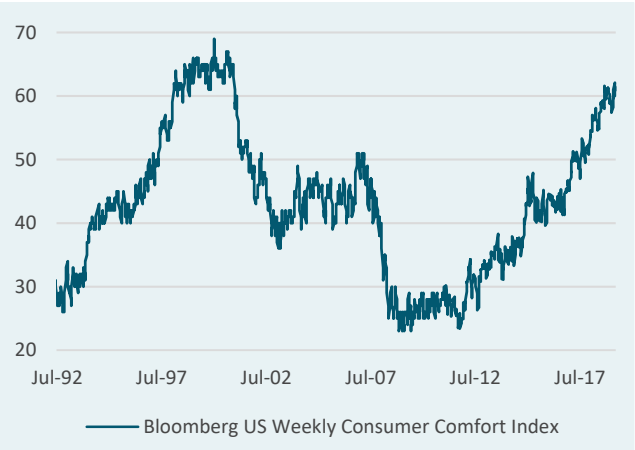
Source: Federal Reserve, as of 2/28/19

Sentiment

Consumer sentiment indicators fell sharply in January before rebounding in February and March. The fall in sentiment early in the year was driven by more muted consumer expectations of future growth, influenced by the sell-off in global equity markets and the extended U.S. government shutdown. However, the University of Michigan Consumer Sentiment Index finished the quarter at 98.4, slightly above its December reading and the Bloomberg Consumer Comfort Index was at a cycle high.

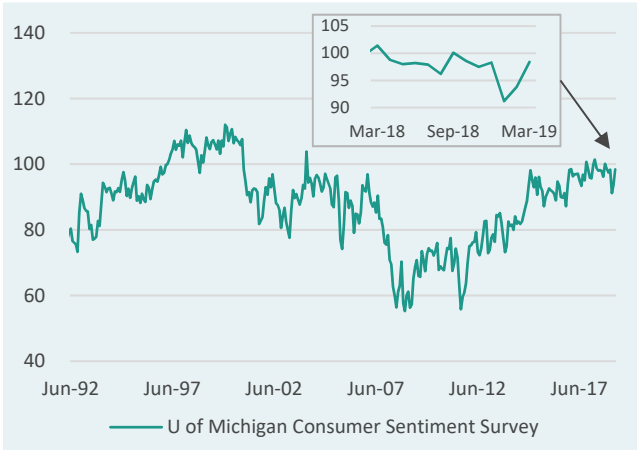
Small business sentiment continued to trend lower from historically strong levels. The NFIB Small Business Optimism Index dipped from 104.4 in December to 101.8 in March. The March reading of 101.8 ranked in the 79th percentile based on 45 years of history. Small business owners' expectations of future economic conditions moderated further in the first quarter. A net 11% of small businesses expected the economy to improve, down from 16% at the end of last year and 50% at the end of 2016.

CONSUMER COMFORT INDEX



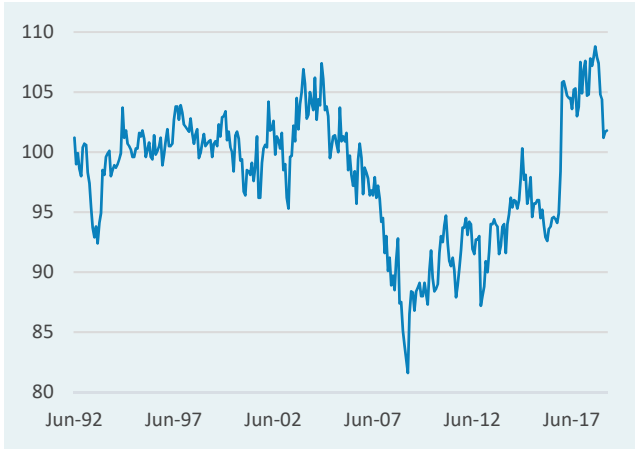
Source: Bloomberg, as of 3/24/19 (see Appendix)

CONSUMER SENTIMENT



Source: University of Michigan, as of 3/31/19 (see Appendix)

NFIB SMALL BUSINESS OPTIMISM INDEX



Source: NFIB, as of 3/31/19 (see Appendix)

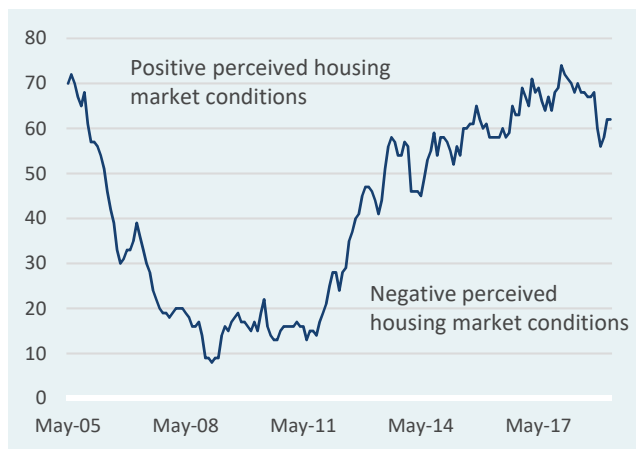
Housing

The U.S. housing market remains strong, though higher prices have dampened affordability and led to less demand. Rising interest rates in the fourth quarter generated fear of a housing slowdown, as borrowing costs have a large impact on home purchase activity. However, a reversal of monetary policy from expected tightening to expected neutrality (or easing) has placed downward pressure on the 30-year fixed mortgage rate. Given the importance of borrowing costs on housing demand, the move from 4.95% borrowing rates (peak reached in Q4) to 4.05% at the end of Q1 should ease concerns of a slowdown and bolster buying activity.

The National Association of Homebuilders (NAHB) Housing Market Index, based on a monthly survey of NAHB members designed to take the pulse of the single-family housing market, improved from 56 to 62 – above the neutral level of 50.

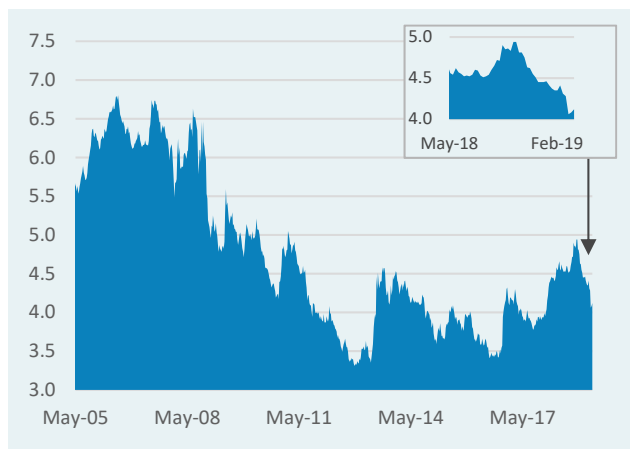
Home prices have faltered a bit, with the median U.S. home sales price falling -6.1% year-over-year in Q4. As is often the case, home price trends can vary significantly from city to city, which makes annual summary statistics difficult to interpret on a local level.

NAHB HOUSING MARKET INDEX



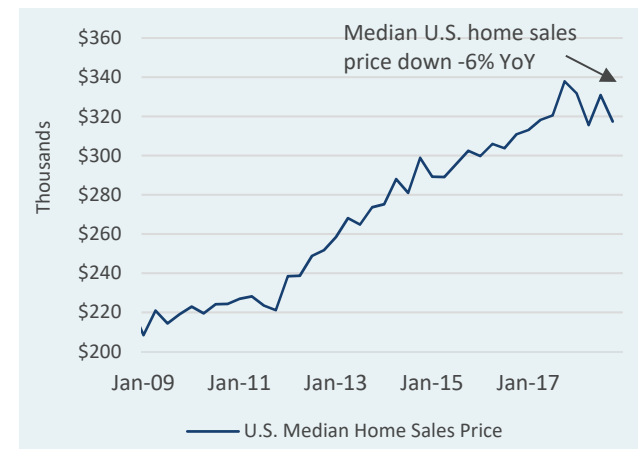
Source: Bloomberg, NAHB, as of 3/31/19 (see appendix)

30-YEAR FIXED MORTGAGE RATE



Source: FRED, as of 3/31/19

MEDIAN U.S. HOME SALES PRICE



Source: FRED, as of 12/31/18

International economics summary

- Global growth expectations for the next two years were revised materially lower in Q1. The OECD's global GDP growth forecast for 2019 and 2020 fell from 3.5% to 3.3%, and from 3.5% to 3.4%, respectively.
- In March, negotiations resumed between high-level U.S. and Chinese trade delegations. The dialogue was viewed as constructive, and optimism picked up for some sort of formal trade resolution being reached in the near-to-intermediate future, although the two sides have yet to agree on a formal timeline.
- The German Manufacturing PMI fell from 47.6 to 44.1 in March, falling further into the contractionary territory below 50. New orders and export sales data came in weaker than expected which contributed to a more pessimistic outlook for German manufacturing activity.
- The House of Commons in the British Parliament briefly took control of their government's legislative agenda, but failed to reach a majority vote on a path forward. On April 10th, British Prime Minister Theresa May and the European Council agreed to extend the Brexit deadline from April 12th to October 31st.
- The spread between the JP Morgan Global Services and Manufacturing PMIs rose to 3.1 in March. Last March, the spread was at 0.0, indicating that over the past year the outlook for global manufacturing activity has weakened relative to the outlook for global services activity. Typically, services activity is more resilient to a worsening economic backdrop.

Area	GDP (Real, YoY)	Inflation (CPI, YoY)	Unemployment
United States	3.0% <i>12/31/18</i>	1.5% <i>2/28/19</i>	3.8% <i>3/31/19</i>
Eurozone	1.1% <i>12/31/18</i>	1.4% <i>3/31/19</i>	7.8% <i>2/28/19</i>
Japan	0.3% <i>12/31/18</i>	0.2% <i>2/28/19</i>	2.3% <i>2/28/19</i>
BRICS Nations	5.8% <i>12/31/18</i>	2.4% <i>3/31/19</i>	5.3% <i>12/31/18</i>
Brazil	1.1% <i>12/31/18</i>	3.9% <i>2/28/19</i>	12.2% <i>3/31/19</i>
Russia	2.7% <i>12/31/18</i>	5.3% <i>3/31/19</i>	4.9% <i>2/28/19</i>
India	7.2% <i>12/31/18</i>	2.6% <i>2/28/19</i>	8.5% <i>12/31/17</i>
China	6.4% <i>12/31/18</i>	1.5% <i>2/28/19</i>	3.8% <i>12/31/18</i>

International economics

Global economic growth trended lower over the past quarter. Most of the world experienced a deceleration in inflation, while labor markets showed moderate improvement. Global central banks took a more dovish stance in response to these conditions, which contributed to a sharp decline in global sovereign yields in March.

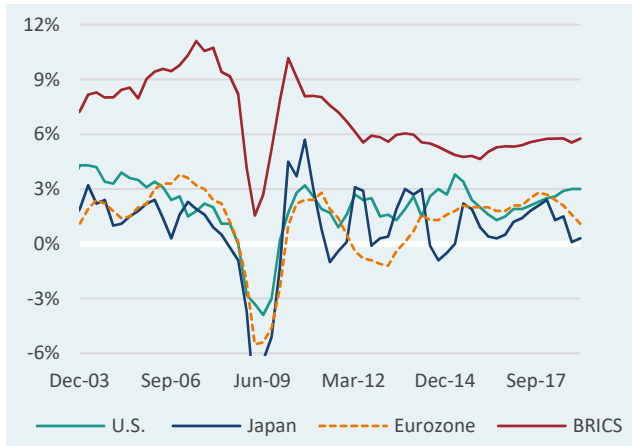
Real GDP in the Eurozone decelerated in Q4 from 1.6% to 1.1% YoY as the region continued to show weakness. Uncertainty surrounding Brexit, and the dependence of European economies on China likely factored into the regional outlook. Additionally, Europe faces significant

structural issues which are important to monitor, though perhaps not immediate in nature. As the ECB begins to discuss a tiered, sub-zero interest rate regime, the inability of EU members to pursue their own fiscal and monetary policies could prolong economic slowdowns and undermine subsequent recoveries.

Global growth forecasts were revised lower

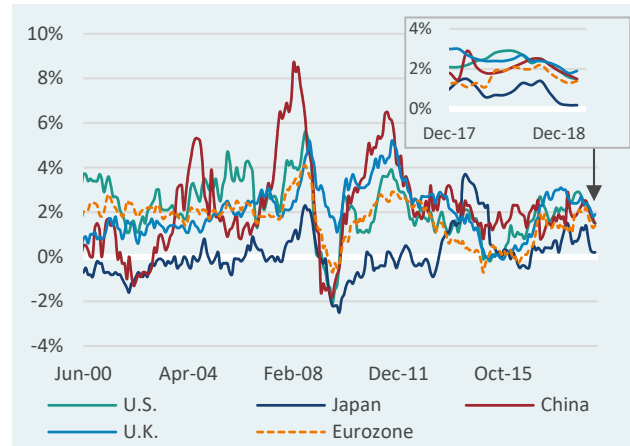
Following the failure of the House of Commons in British Parliament to agree on a Brexit strategy through “indicative votes”, Prime Minister Theresa May negotiated an extension of the Brexit deadline from April 12th to October 31st.

REAL GDP GROWTH (YOY)



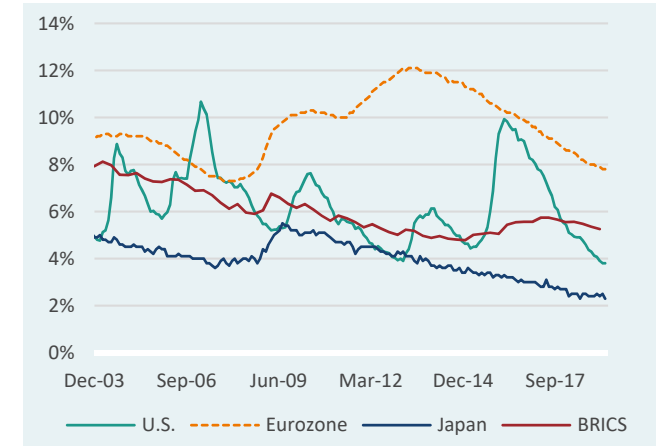
Source: Bloomberg, as of 12/31/18

INFLATION (CPI YOY)



Source: Bloomberg, as of 2/28/19

UNEMPLOYMENT RATE



Source: Bloomberg, as of 2/28/19 or most recent release

Fixed income rates & credit

Interest rate environment

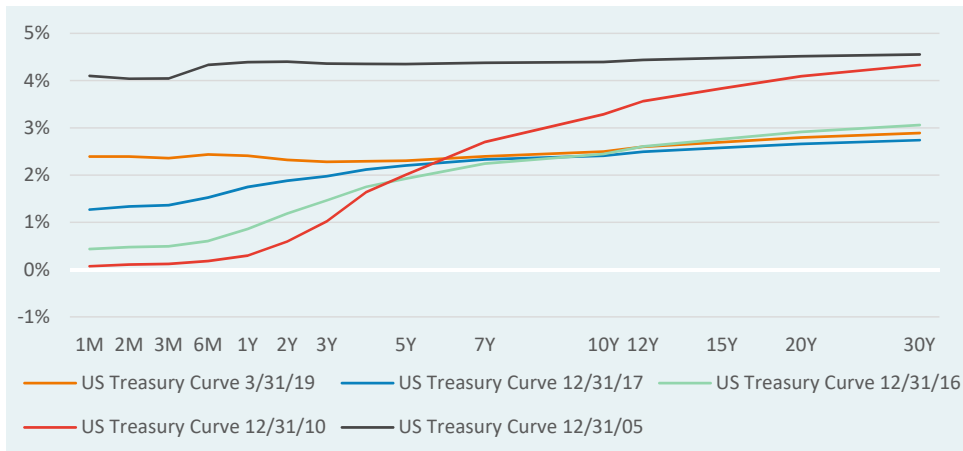
- The Federal Reserve held the fed funds rate unchanged over the quarter, and communicated a much more dovish stance on monetary policy amid slower growth expectations and stable inflation near 2%.
- Fed officials lowered their collective expectations for rate hikes in 2019 from two to zero, and announced that the balance sheet unwind would conclude in September, much earlier than previously anticipated.
- More dovish expectations for monetary policy and concerns over economic growth likely helped push long-term Treasury yields lower. The 10-year yield fell 28 bps to just above 2.4%.
- Falling long-term yields and stable short-term yields led to a brief inversion of the Treasury curve between the 10-year and 3-month yields.
- While widely considered a bearish signal for the economy and risk markets, the timing between curve inversion and bearish economic and market environments has varied widely. Additionally, Fed asset purchases of long-term Treasuries has artificially lowered yields and muddled the information conveyed by the yield curve.
- The ECB also pivoted to a more dovish stance as officials announced that deposit rates will be on hold through at least the end of the year.
- The 10-year German bund yield dipped back into negative territory for the first time since late 2016.
- Emerging market local bonds offer attractive yields relative to developed markets, even after adjusting for inflation. The JPM GBI-EM Index yielded 7% at the end of March.

Area	Short Term (3M)	10-Year
United States	2.39%	2.41%
Germany	(0.53%)	(0.07%)
France	(0.54%)	0.32%
Spain	(0.40%)	1.10%
Italy	(0.20%)	2.49%
Greece	0.87%	3.73%
U.K.	0.80%	1.00%
Japan	(0.17%)	0.08%
Australia	1.68%	1.77%
China	2.08%	3.07%
Brazil	6.31%	8.97%
Russia	7.35%	8.41%

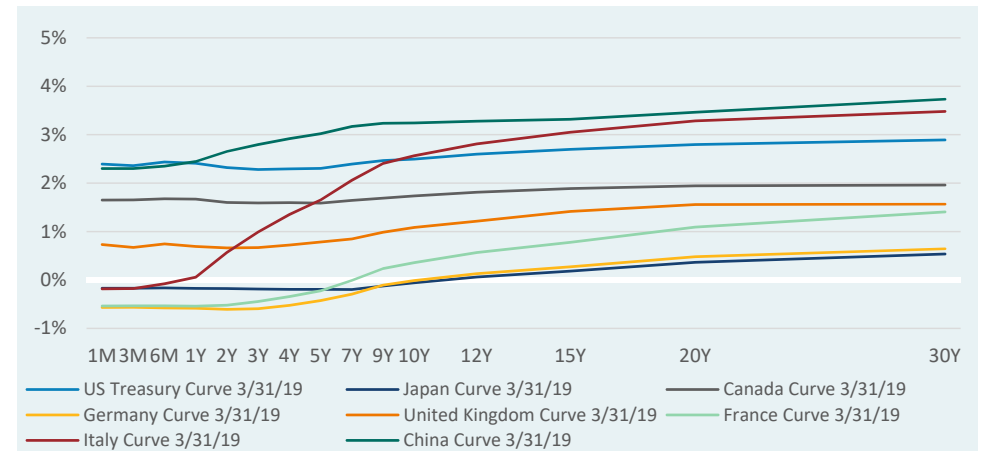
Source: Bloomberg, as of 3/31/19

Yield environment

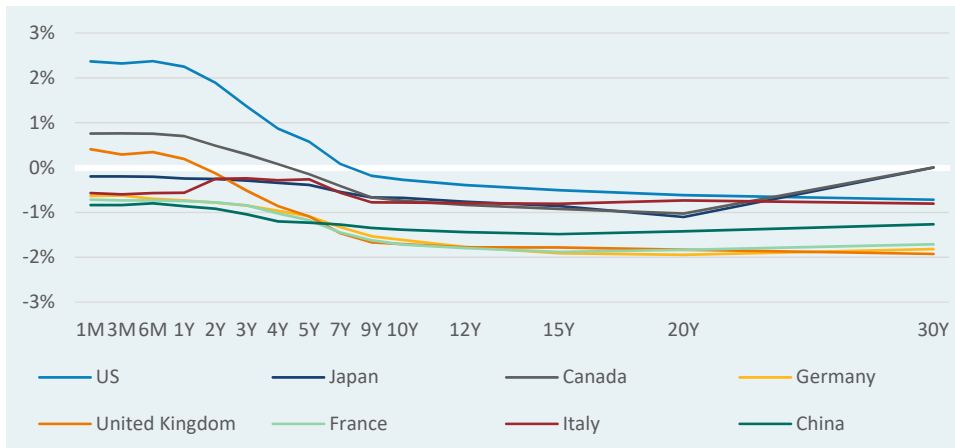
U.S. YIELD CURVE



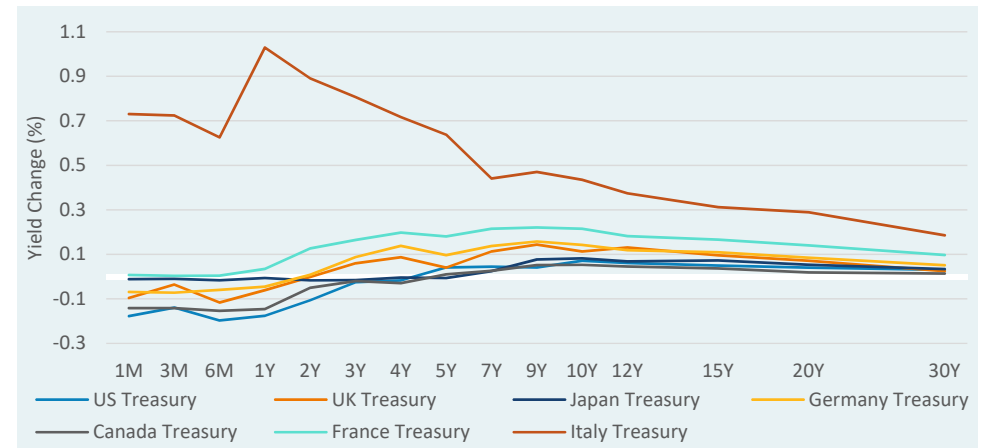
GLOBAL GOVERNMENT YIELD CURVES



YIELD CURVE CHANGES OVER LAST FIVE YEARS



IMPLIED CHANGES OVER NEXT YEAR



Source: Bloomberg, as of 3/31/19

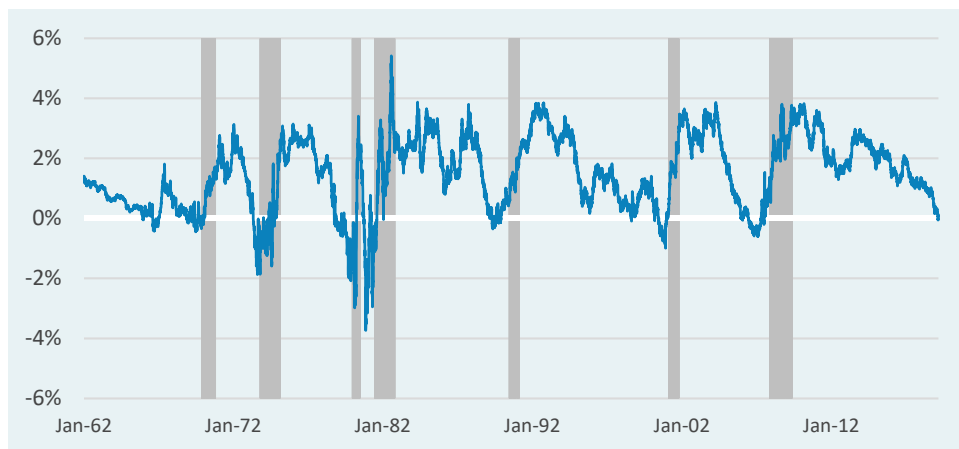
Yield curve inversion

The drop in long-term Treasury yields following the Fed meeting in March briefly caused the yield curve to invert, meaning that short-term yields (3-month) were higher than long-term yields (10-year). Investors have widely considered yield curve inversion as a sign that the economic cycle is coming to an end. At a high level, the shape of the yield curve tells investors something about what the market is expecting. All else equal, when the curve is steep, markets are expecting a positive growth environment and when the curve is flat or inverted, markets are expecting a negative growth environment.

While we have previously noted that the wide range of timing between curve inversion and recession has made the signal less useful, it is also important to note that the Fed's purchases of Treasuries has artificially lowered long-term yields. Therefore, Fed policy has obscured the market's expectation of future growth that is embedded in the shape of the yield curve. Although we are always wary of "this time is different" arguments, we believe that the recent yield curve inversion is not signaling an imminent recession.

The information conveyed by the shape of the yield curve has been obscured by Fed asset purchases

10-YEAR MINUS 3-MONTH TREASURY YIELD CURVE



Source: Bloomberg, as of 3/31/19, recessions are shaded with the dates defined by NBER

TIME FROM CURVE INVERSION TO THE NEXT RECESSION

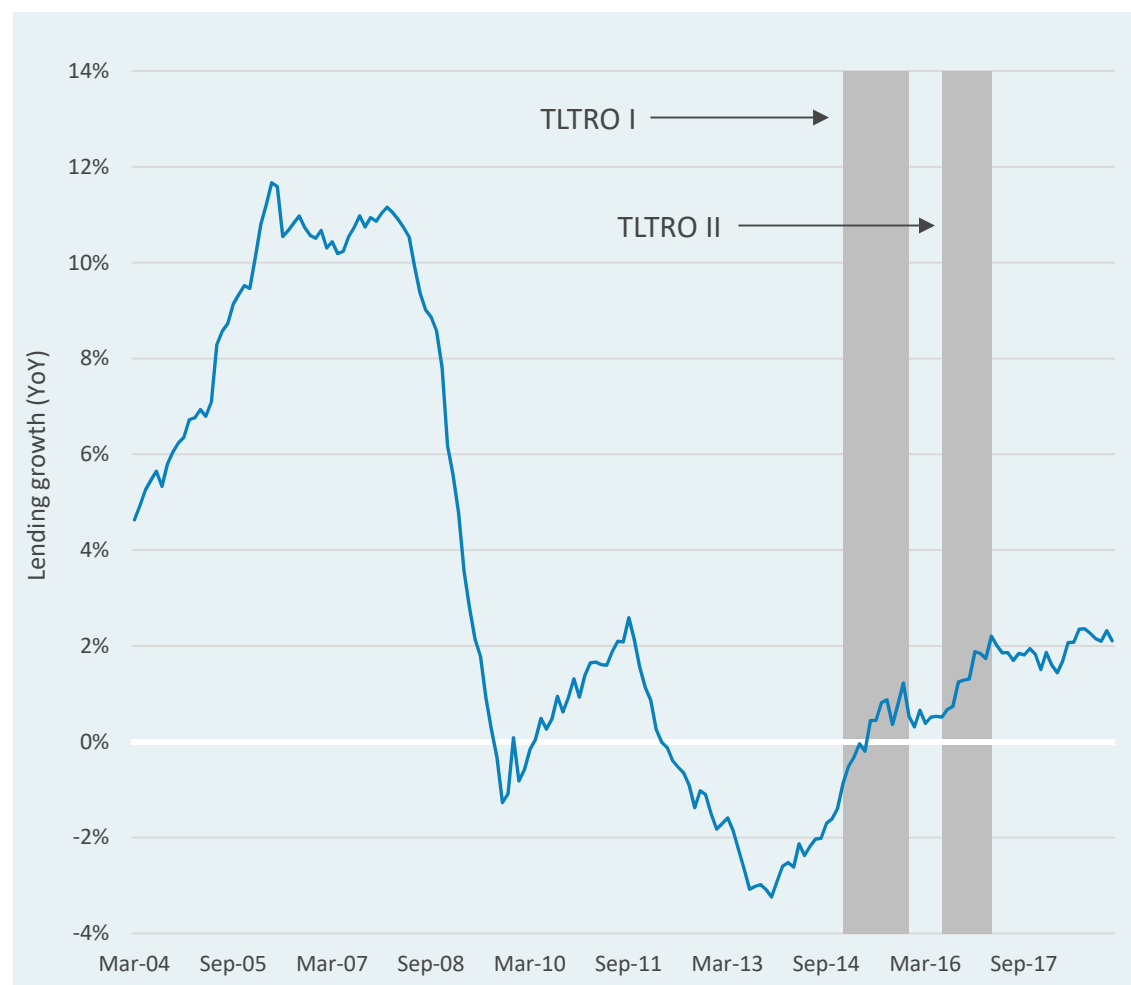
Start of Curve Inversion	Beginning of Next Recession	Months From Inversion to Recession
Jan-66	Dec-69	23
Dec-68	Dec-69	12
Jun-73	Nov-73	5
Nov-78	Jan-80	14
Oct-80	Jul-81	9
Mar-89	Jul-90	15
Jul-00	Mar-01	8
Jan-06	Dec-07	23
Average		13.6

Source: Bloomberg, recession dates defined by NBER

Eurozone monetary policy

- The European Central Bank (ECB) followed the Fed by pivoting to a more dovish monetary policy stance amid expectations of slower economic growth and muted inflation. ECB officials' latest growth forecasts show they expect only 1.1% real GDP growth in 2019.
- To counteract a potential growth slowdown, the ECB announced a third round of targeted long-term refinancing operations (TLTRO) and that it will keep deposit rates on hold through at least the end of the year. In the TLTRO program, the ECB gives out cheap short-term financing to banks with incentives for them to lend this money out to corporations and households.
- A total of €739 billion were lent out in the first two rounds of TLTROs, which helped lead to a modest pick up in bank lending growth. While this round of TLTROs may lead to banks rolling over previous loans, it is not likely to result in a significant increase in lending as the Eurozone already has ample liquidity and credit demand remains weak.
- Despite these recent steps, the ECB has limited ability to effectively ease. This puts the region at risk of a self-reinforcing downturn if conditions were to worsen, particularly since countries also have little room to provide fiscal stimulus.

EUROZONE BANK LENDING TO HOUSEHOLDS & CORPORATES



Source: Bloomberg, as of 1/31/19

Credit environment

High yield bond yields fell in March, impacted by the Fed's pause in the hiking cycle. Anticipation of an easier policy, which could potentially lengthen the credit cycle, has strengthened sentiment for risk assets. BB-rated bonds outperformed both CCC- and B-rated bonds in March. High yield bonds returned 7.3% YTD which is the strongest start to a calendar year on record for the asset class since 2003.

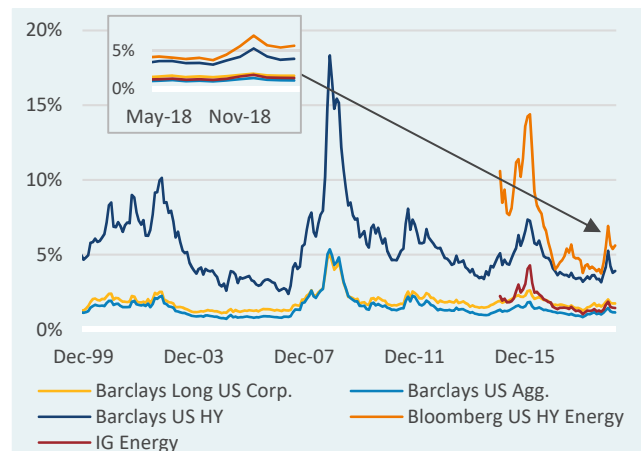
Leveraged loan prices declined during March as the asset class deals with outflows and a pause in the Fed's hiking cycle. The outflows have exceeded \$30 billion over the past two quarters

which represents 20% of assets under management, according to J.P. Morgan. Leveraged loans have returned 3.8% YTD, underperforming both high yield and investment grade bonds.

Based on concerns over late-cycle behavior in credit markets, we do not believe investors are being adequately compensated for credit risk. Late-cycle volatility tends to coincide with a jump in credit spreads and steep credit losses. An underweight to U.S. investment grade, high yield credit, and bank loans may be warranted. Within credit, higher quality and more liquid assets appear most attractive.

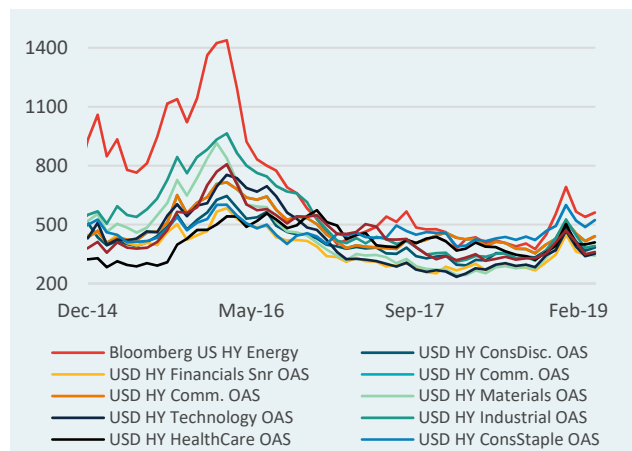
Credit spreads widened due to concerns over slowing global growth and broader risk-off behavior

SPREADS



Source: Barclays, Bloomberg, as of 3/31/19

HIGH YIELD SECTOR SPREADS (BPS)



Source: Bloomberg, as of 3/31/19

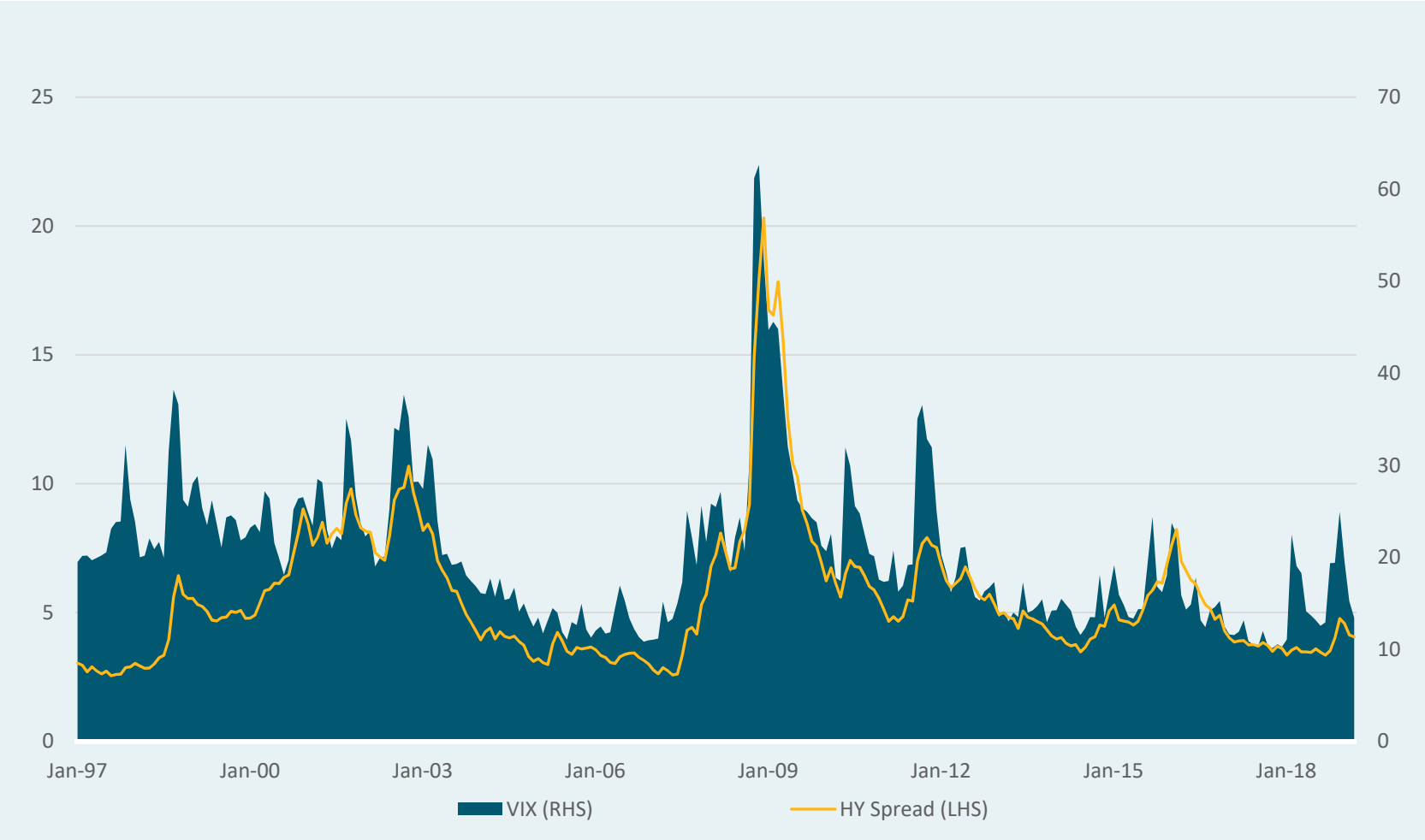
Market	Credit Spread (OAS)	
	3/31/19	3/31/18
Long U.S. Corp	1.7%	1.5%
U.S. Agg Corp	1.2%	1.1%
U.S. High Yield	3.9%	3.5%
U.S. Bank Loans*	4.4%	3.9%

Source: Barclays, Credit Suisse, Bloomberg, as of 3/31/19

*Discount margin (4-year life)

Credit is sensitive to equity volatility

HIGH YIELD BOND SPREADS & VOLATILITY



When volatility rises, higher risk credit typically experiences losses

Source: Cboe, FRED, as of 3/31/19

Default & issuance

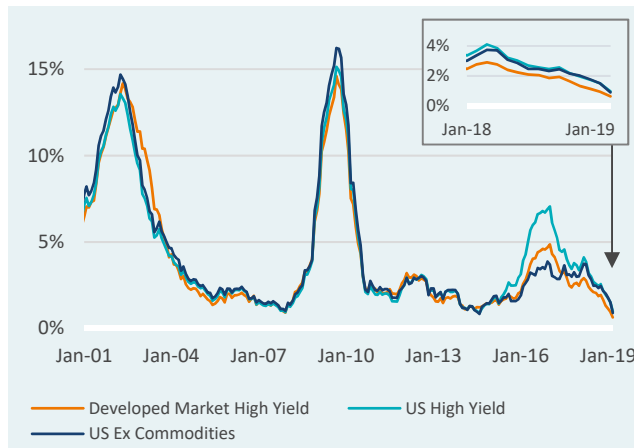
Default activity has been low and stable in the U.S. credit market, despite volatility in spreads. The par-weighted default rate declined to 0.9% and remains below its long-term average range of 3.0-3.5%. For loans, the par-weighted default rate at the end of March was 1.0%, its lowest level since April 2012 (0.8%), according to data from JPMorgan. Sectors that have been more prone to defaults include: consumer, retail, telecom, and automotive. The 2018 loan par-weighted default rate was 1.6%.

Senior loan and high yield markets have essentially

recovered from a wave of defaults seen in 2015-2016 that were generated from the energy and metals/mining sectors. High yield bond recovery rates have improved significantly since that time.

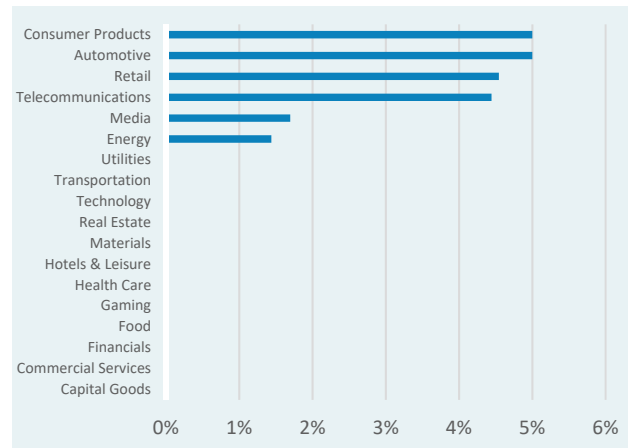
Gross high yield issue activity increased in March to the highest level seen since March of 2018. Loan market issuance is significantly behind last year's pace, likely influenced by a lower demand for floating rate securities now that the Fed has paused monetary tightening.

HY DEFAULT RATE (ROLLING 1-YEAR)



Source: BofA Merrill Lynch, as of 3/31/19

U.S. HY SECTOR DEFAULTS (LAST 12 MONTHS)



Source: BofA Merrill Lynch, as of 3/31/19 – par weighted

GLOBAL ISSUANCE (\$ BILLIONS)



Source: Bloomberg, BofA Merrill Lynch, as of 3/31/19

Private credit

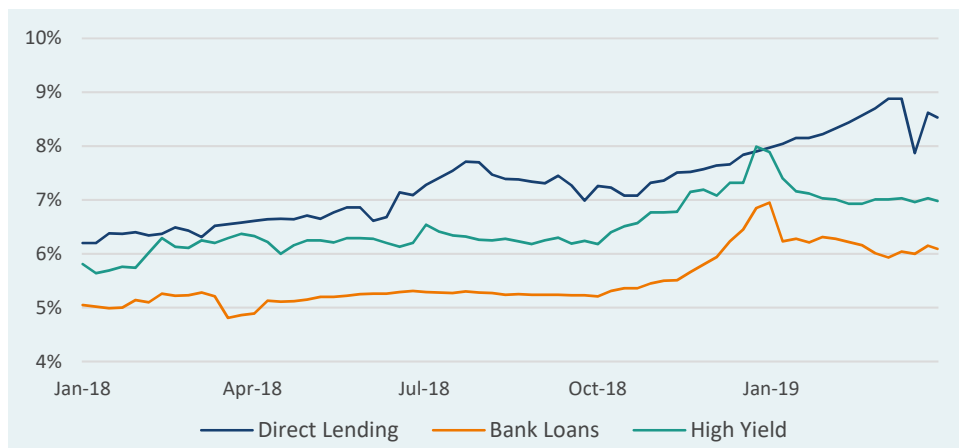
Fundraising in the private credit market slowed through year-end 2018. A total of 163 funds closed on \$110 billion during the year, which was down from 189 funds and \$129 billion in 2017. Direct lending, mezzanine, and distressed debt were the most active strategies, raising \$45 billion, \$31 billion, and \$21 billion, respectively. Even with slower fundraising, dry powder in private credit is at record levels. Private debt dry powder at the end of 2018 was \$280 billion, which beat the 2017 record of \$246 billion.

Yields for loans made by direct lending funds finished March at 8.5%. While yields have been aided by slightly higher LIBOR rates, which grew from 2.3% to 2.6% year-to-date, spreads increased from 4.3% to 5.9% year-to-date.

Fundraising slowed in private credit last year

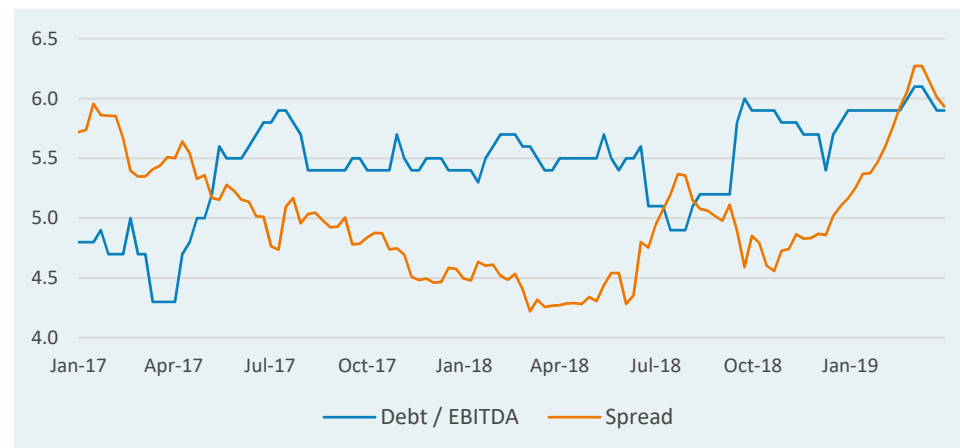
Credit spreads expanded in the first quarter, along with the debt multiples for borrowers. Borrowers now average debt totaling 5.9x EBITDA at the end of March, a 0.4x increase from one year prior.

YIELDS FOR DIRECT LENDING, BANK LOANS & HIGH YIELD



Source: The Lead Left, Middle Market, EBITDA < \$50MM; S&P LSTA US Leveraged Loan Index; ICE BofAML US High Yield Master II, as of 3/31/19

DIRECT LENDING LEVERAGE MULTIPLES (DEBT / EBITDA) & SPREAD



Source: The Lead Left, Middle Market Credit Stats, as of 3/31/19

Equity

Equity environment

- U.S. equities experienced a 13.6% total return (S&P 500 Index) in Q1, nearly a mirror image of Q4 2018. The first quarter has indeed been one of the strongest quarters recently, but was simply a bounce back in lost performance from the prior quarter. At the end of March, the S&P 500 price index was just 3.2% below its high watermark that was reached in September.
- Currency movement had little impact on unhedged international equity over the quarter, though currencies on a 1-year basis have had a substantially negative effect. An unhedged investment in international developed equities (MSCI EAFE) lost 8.9% of portfolio value due to currency movement.
- First quarter earnings growth for S&P 500 companies is expected to be negative for the first time since Q2 2016. If corporate earnings

expectations continue to be downgraded, this will likely hold back markets around the world. The greatest determinant of medium and long-term equity performance is typically the underlying trend of corporate earnings.

- The risk-on quarter drove small cap equities forward. The Russell 2000 Index posted a 14.6% return, compared to the 13.8% return of the Russell 1000 Index.
- Value equities underperformed growth equities over the quarter (Russell 1000 Value +11.7%, Russell 1000 Growth +16.0%). Performance over the quarter reversed value's gains from Q4 2018.
- After spiking in the fourth quarter, U.S. equity volatility returned to muted levels.

	QTD TOTAL RETURN		1 YEAR TOTAL RETURN	
	(unhedged)	(hedged)	(unhedged)	(hedged)
US Large Cap (Russell 1000)	13.8%		8.7%	
US Small Cap (Russell 2000)	14.6%		2.1%	
US Large Value (Russell 1000 Value)	11.7%		4.9%	
US Large Growth (Russell 1000 Growth)	16.0%		12.3%	
International Large (MSCI EAFE)	10.0%	11.3%	(3.7%)	5.2%
Eurozone (Euro Stoxx 50)	10.6%	12.9%	(6.3%)	5.8%
U.K. (FTSE 100)	9.5%	10.1%	(0.2%)	9.6%
Japan (NIKKEI 225)	6.8%	7.6%	(3.4%)	2.9%
Emerging Markets (MSCI Emerging Markets)	9.9%	9.8%	(7.4%)	(2.1%)

Source: Russell Investments, MSCI, STOXX, FTSE, Nikkei, as of 3/31/19

Domestic equity

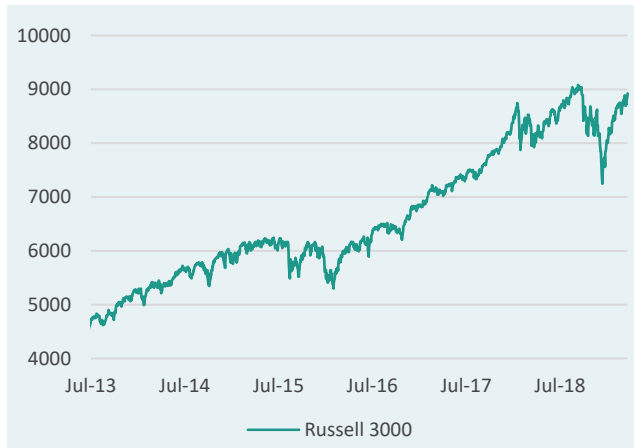
U.S. equities experienced a 13.6% total return (S&P 500 Index) in the first quarter, rebounding from the sharp sell-off in the prior quarter. At the end of March, the S&P 500 price index was just 3.2% below its high watermark that was reached in September. The bounce back in equity prices was driven by better than expected/feared Q1 corporate earnings, improving sentiment toward a U.S.-China trade deal, and the Fed's pivot to a more patient approach to monetary policy. The fall and subsequent rise in equities was primarily reflected in valuation changes. After dropping to a low of 13.6 in December, the forward 12-month P/E ratio on the S&P 500 finished the

quarter at 16.7, essentially unchanged over the past six months.

Now 10 years removed from the bottom of the financial crisis, it is worth noting that U.S. equities have experienced one of their best decades of performance ever. The S&P 500 had a compound price return of 14.2% per year, and over 75% of this was due to profit margin and valuation expansion. With both of these measures at above average levels, we do not think that it is reasonable to expect this level of performance to continue moving forward.

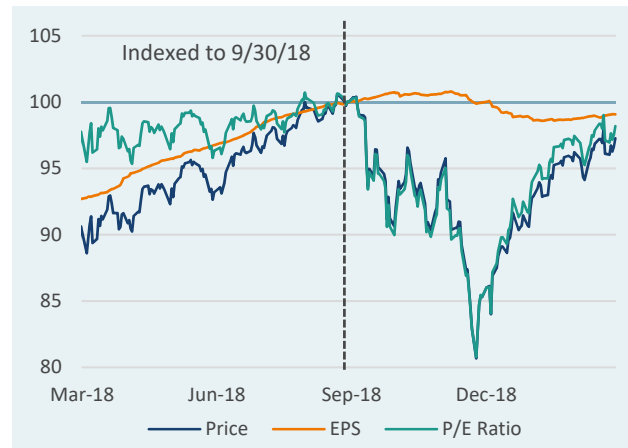
We maintain a neutral view on U.S. equities

U.S. EQUITIES



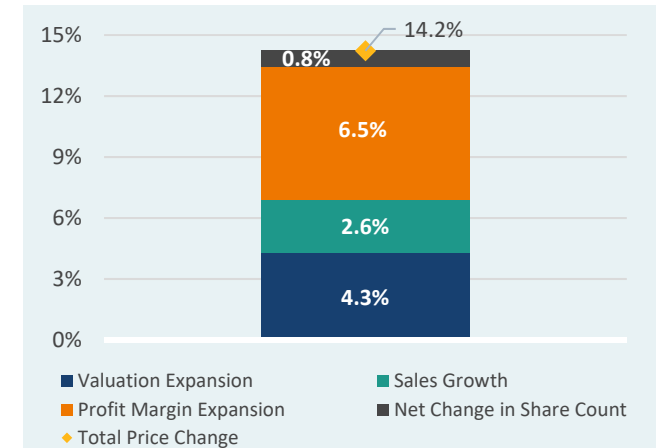
Source: Russell Investments, as of 3/31/19

S&P 500 PRICE MOVEMENT ATTRIBUTION



Source: Bloomberg, as of 3/31/19

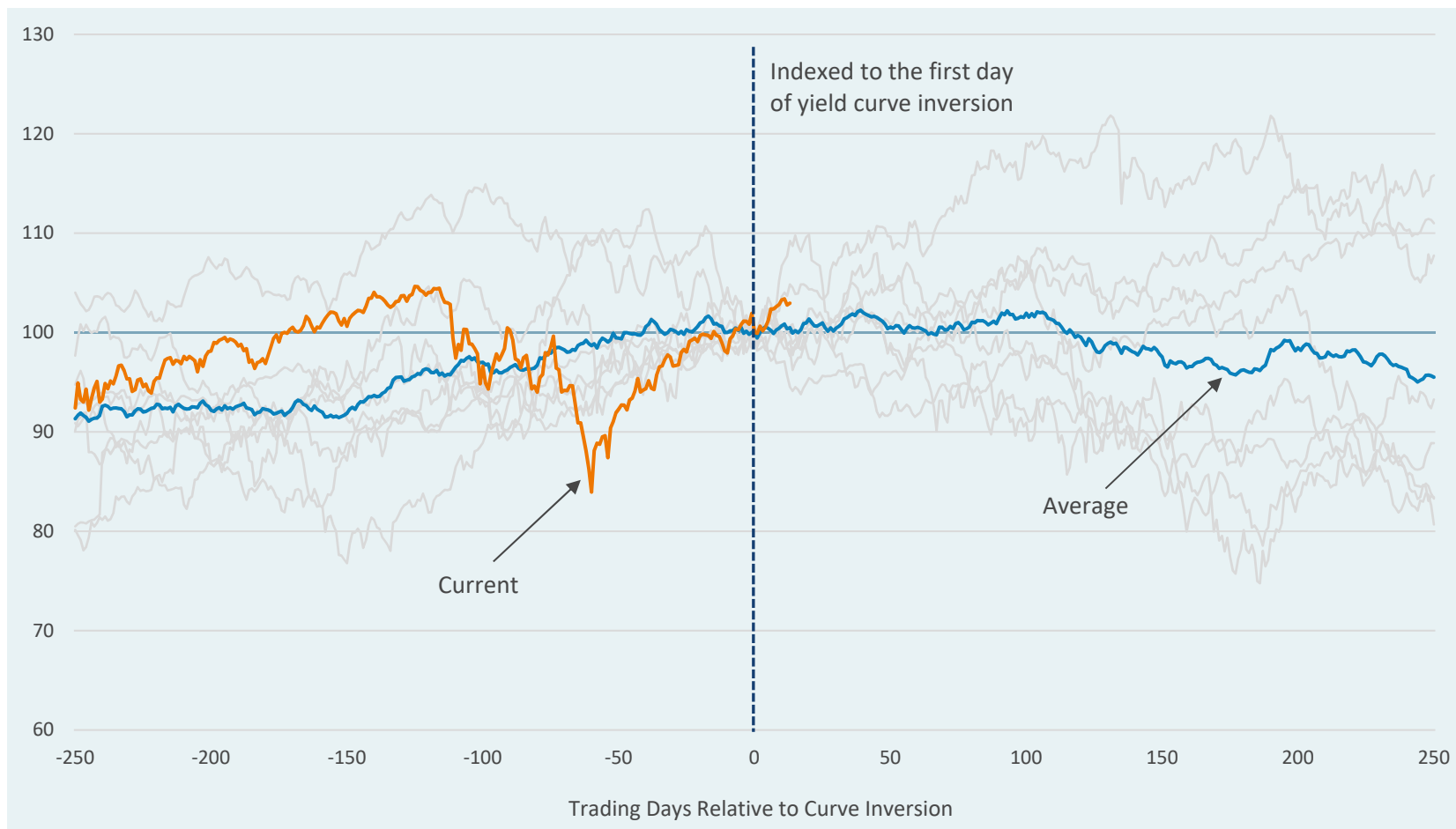
S&P 500 10-YR PRICE RETURN ATTRIBUTION



Source: Verus, Bloomberg, as of 3/31/19

Equity markets and yield curve inversions

EQUITY PERFORMANCE AROUND CURVE INVERSIONS



Equity performance has varied widely following yield curve inversion

Source: Bloomberg, Verus, as of 3/31/19 – equities are represented by the S&P 500 Index and the yield curve is defined as the difference between the 10-year and 3-month Treasury yield; see page 23 for the dates of yield curve inversion

U.S. equity & the economic cycle



A material short-term relationship exists between equity performance and economic growth

An investor's views on the economy cycle should therefore impact equity positioning

Source: Standard & Poor's, data since 1948

Domestic equity size & style

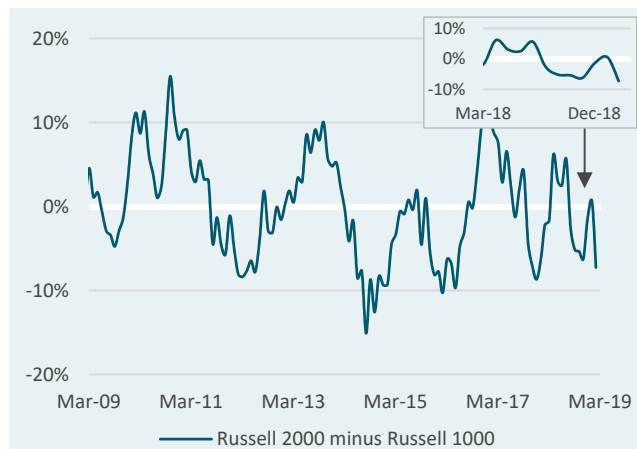
Small cap equities (Russell 2000 +14.6%) slightly outperformed large cap equities (Russell 1000 +14.0%) during the quarter. Meanwhile, growth stocks outperformed value stocks by a wide margin (Russell 1000 Growth +16.1% vs. Russell 1000 Value +11.9%).

The impact of sector performance on the value premium was more nuanced in Q1, as Materials (+10.3%) and Financials (+8.6%) underperformed the overall index (S&P 500 +13.6%), but Energy (+16.4%) outperformed. Information Technology,

the top performing sector, continued to deliver outsized returns (+19.9%).

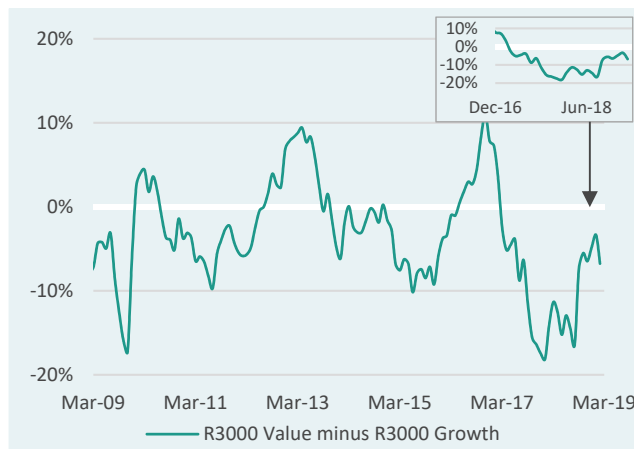
Both the small cap premium and value premium have struggled to deliver positive risk premiums over the past 10 years. It can be difficult to endure longer periods of factor underperformance, but similar to the equity premium in general, these periods do exist and investors should expect this on occasion.

SMALL CAP VS LARGE CAP (YOY)



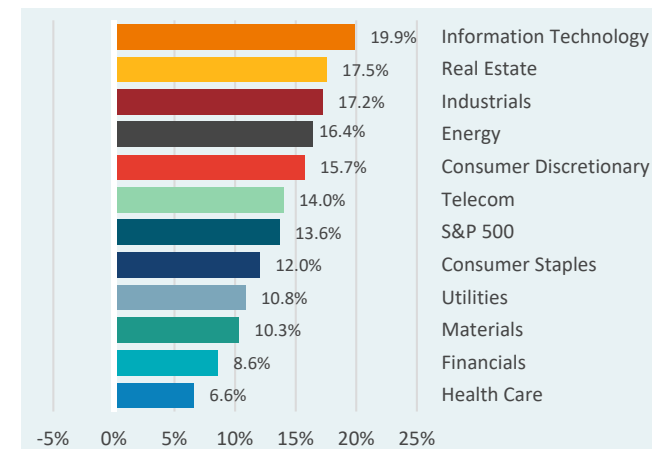
Source: FTSE, as of 3/31/19

VALUE VS GROWTH (YOY)



Source: FTSE, as of 3/31/19

Q1 S&P 500 SECTOR RETURNS



Source: Morningstar, as of 3/31/19

International developed equity

Like U.S. equities, international developed equities erased most of the losses they suffered in the prior quarter. After posting a return of -12.5% in Q4, the MSCI EAFE Index returned +10.2% in Q1. Currency losses were a mild detractor from unhedged U.S. dollar performance. On a currency hedged basis, EAFE equities returned 11.3%. From a country perspective, Swiss, French and UK equities outperformed, while Japanese and German equities lagged the overall index. While most markets are back near record highs, German equities (MSCI Germany) finished the quarter 17% below the previous high watermark. Underperformance in German equities has likely been influenced by a greater

sensitivity to global growth and trade as well as concerns over a slowing domestic economy.

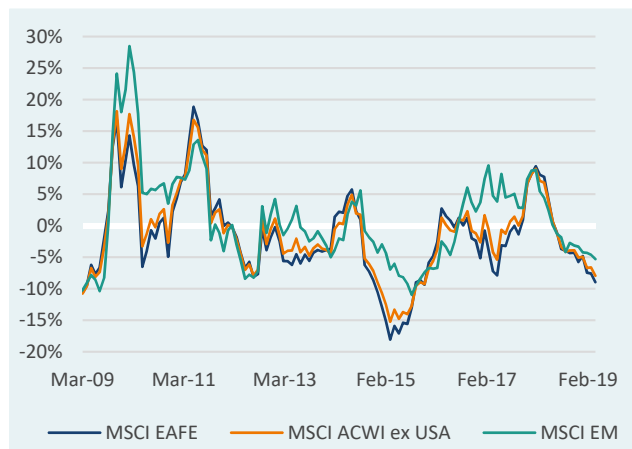
International developed equity markets are still cheap on both an absolute and relative basis at 13.3x forward earnings, but we believe there are good reasons for this pricing in certain markets. Within equity allocations, we are pessimistic on EAFE equities primarily due to a negative view on the Eurozone. We believe slowing economic growth, rising political risks, and the lacking ability of the ECB to meaningfully ease policy presents material headwinds to equity performance.

INTERNATIONAL DEVELOPED EQUITIES



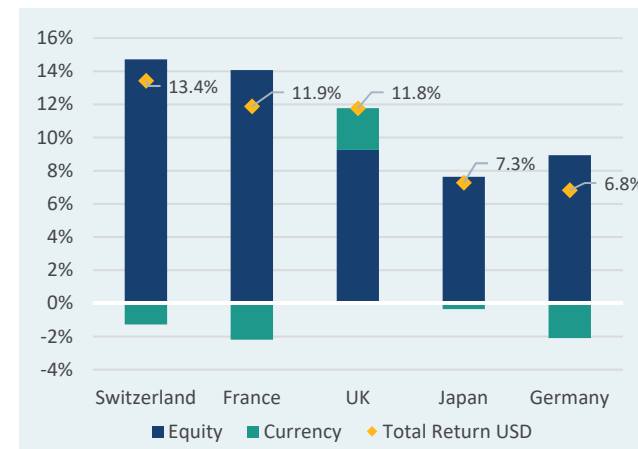
Source: MSCI, as of 3/31/19

EFFECT OF CURRENCY (1-YEAR ROLLING)



Source: MSCI, as of 3/31/19

Q1 COUNTRY PERFORMANCE



Source: MSCI, largest five country exposures shown above

Emerging market equity

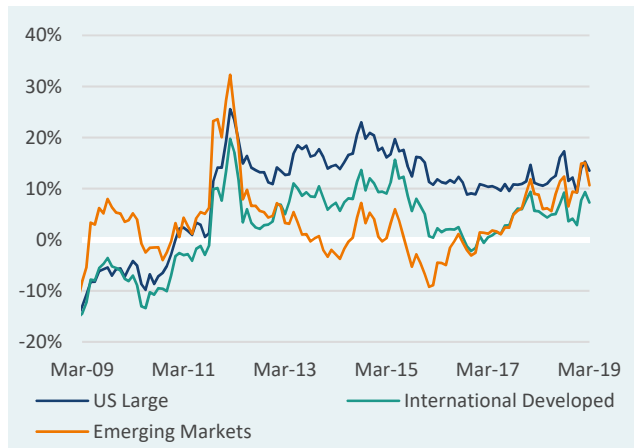
Emerging market equity performance was in-line with international developed markets in the first quarter, while U.S. equities outperformed. Currencies in these markets continued to show stability (MSCI EM +9.9%, MSCI EM Hedged +9.8%). Business sentiment across emerging market economies indicates expanding conditions, and fears of a sharp China slowdown have subsided. Moderating conditions may bolster emerging market returns throughout the year.

Equity multiples rebounded in the first quarter and are near

the long-term average. The divide between domestic and emerging equities remains wide.

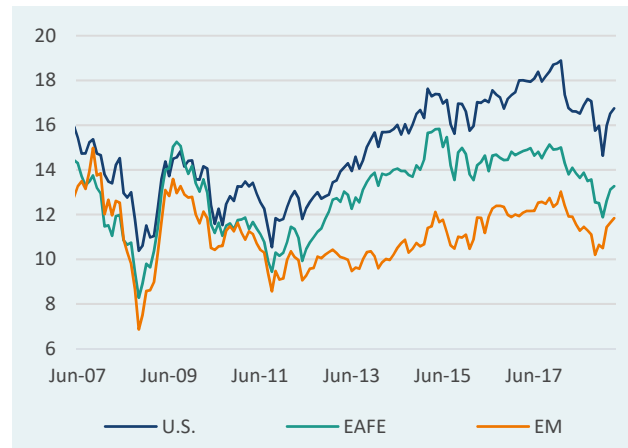
Decelerating global growth and rising probability of recession do present unique risks to emerging markets, as these markets typically exhibit a higher beta during market downside and upside moves. However, emerging markets can also deliver robust performance in times of moderate growth and easy monetary policy when investors seek growth and higher yields.

EQUITY PERFORMANCE (3-YR ROLLING)



Source: Standard & Poor's, MSCI, as of 3/31/19

FORWARD P/E



Source: MSCI, as of 3/31/19

PURCHASING MANAGERS' INDEX (PMI)

	18-Dec	19-Jan	19-Feb	19-Mar
Manufacturing				
Global	51.4	50.8	50.6	50.6
Developed	52.3	51.8	50.4	50.0
US	54.3	56.6	54.2	55.3
EM	50.3	49.5	50.6	51.0
Services				
Global	53.0	52.6	53.3	53.7
Developed	52.8	52.5	53.7	53.7
US	58.0	56.7	59.7	56.1
EM	53.6	52.9	52.1	53.6

Source: Markit, Institute for Supply Management (ISM)

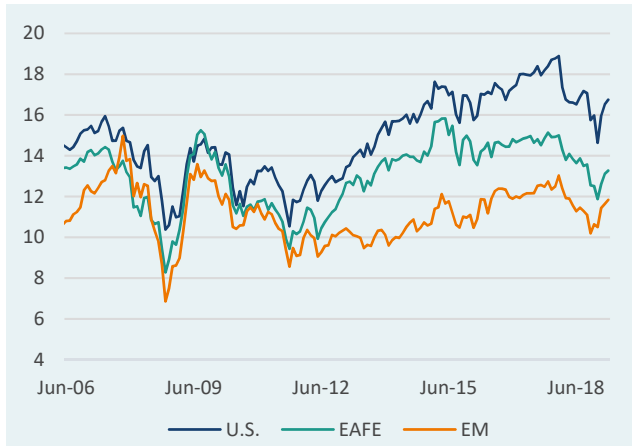
Equity valuations

The fall and subsequent rise in global equity prices was primarily driven by changes in valuations. The recovery in Q1 brought most broad equity market valuations back to September 2018 levels, but below recent cycle highs. In the U.S., equities commanded a forward P/E multiple of 16.7x after hitting a multi-year low in December at 14.6x. International equity valuations also recovered, but are still cheap on a relative basis, particularly when compared to the U.S. At the end of March, the MSCI EAFE and EM Indexes had forward P/E multiples of 13.3x and 11.8x, respectively. U.S. equities currently trade at a 25% forward premium to EAFE

equities, which is the largest gap over the past 15 years. While we believe there are reasons that EAFE equity markets command cheap valuations, particularly in Europe, it is worth noting that barring a significant change in the earnings environment, these markets should have a strong valuation support.

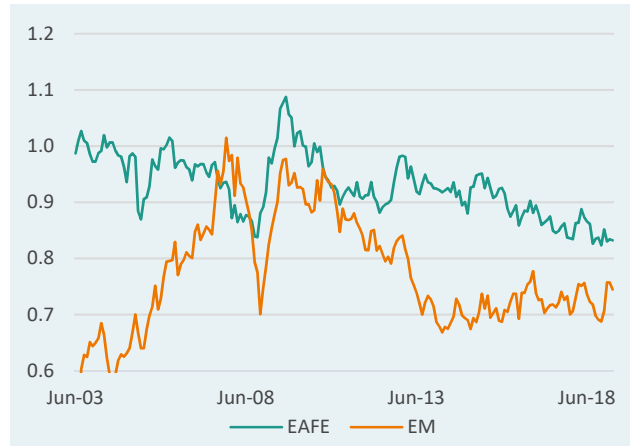
Over the long-term, valuations have had a material relationship with forward equity returns. Given this relationship, we are wary of extrapolating out the recent strong outperformance in U.S. equities.

FORWARD P/E RATIOS



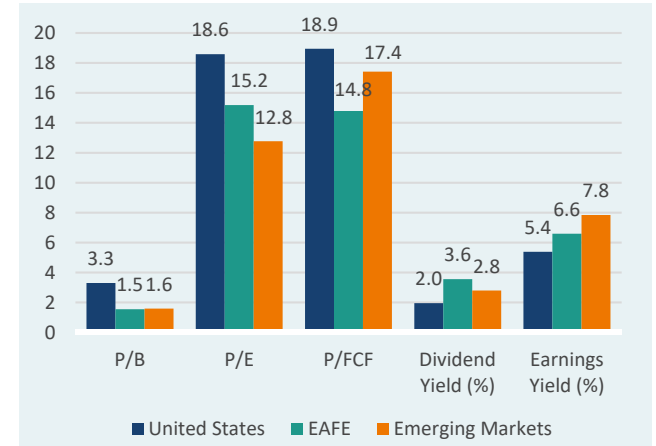
Source: MSCI, as of 3/31/19

P/E MULTIPLES RELATIVE TO U.S. EQUITIES



Source: Verus, MSCI, as of 3/31/19

VALUATION METRICS (3-MONTH AVERAGE)



Source: Bloomberg, MSCI as of 3/31/19 - trailing P/E

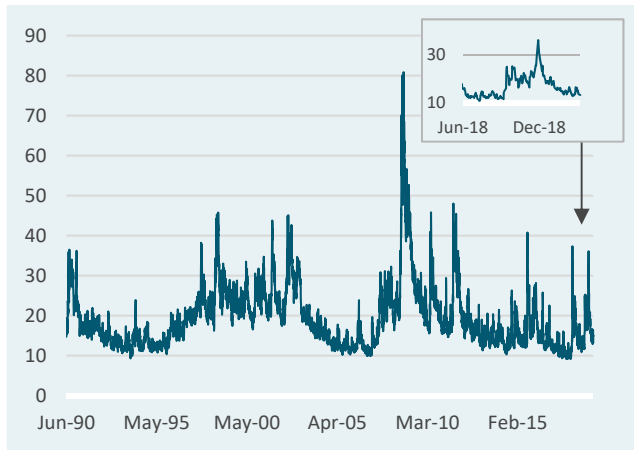
Equity volatility

Equity volatility spiked in the fourth quarter of 2018 but returned to low levels in Q1. The VIX Index ended March at 13.7, which ranked in the 26th percentile dating back to 1990 (volatility was this low 26% of the time). Low volatility is somewhat normal during later stages of the market cycle as the economy expands and business conditions hold steady. However, some investors have questioned the lack of price movement, given seemingly heightened geopolitical and economic risks present around the world today.

One-year volatility picked up after a tumultuous fourth quarter. U.S. markets have shown higher volatility than international markets for the first time since 2008, with a trailing 1 year volatility of 16%.

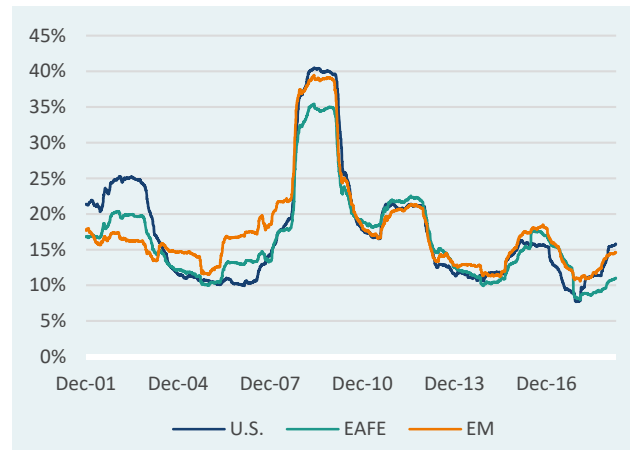
Equity performance around the world in Q1 was nearly a mirror image of 2018 Q4. The first quarter has indeed been one of the strongest quarters of recent decades, but this was mostly a bounceback in lost performance from the prior quarter.

U.S. IMPLIED VOLATILITY (VIX)



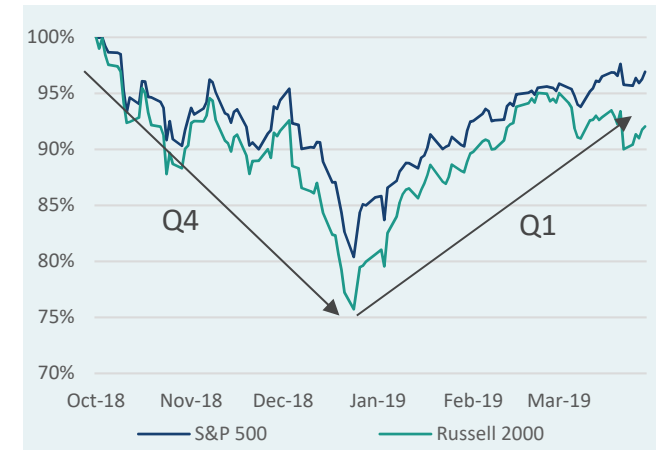
Source: CBOE, as of 3/31/19

REALIZED 1-YEAR ROLLING VOLATILITY



Source: Bloomberg, as of 3/31/19

2019 Q1 PERFORMANCE BOUNCE BACK



Source: Bloomberg, as of 3/31/19

Private equity

Venture capital fundraising and deal volumes continued to set records. \$55 billion of venture capital was raised in the U.S. in 2018, an increase of 63% over the previous year. Similarly, the amount of venture deals were up 58%. Venture deal volume in 2018 of \$131 billion exceeded the record of \$82 billion that was set in 2017.

Buyout activity continued to increase in 2018. Through the fourth quarter, buyouts were up 29% and 5% when measured by dollar value and number of transactions, respectively. The size of the average buyout, \$155 million, increased from \$133 million in 2017. Unlike deal flow, fund capital raising has slowed from the peaks of 2017. Only 186

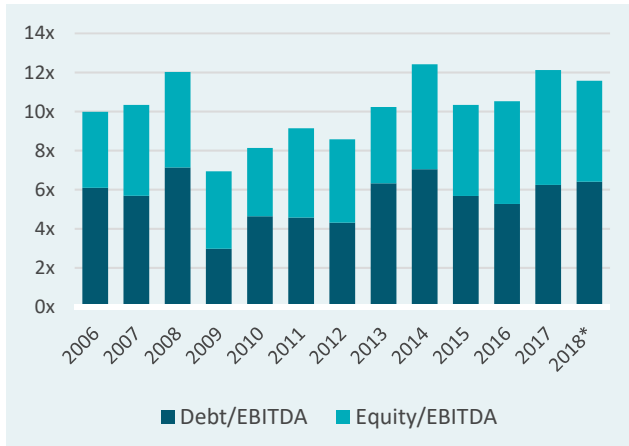
buyout funds representing \$166 billion closed in 2018, down from 235 funds representing a record \$225 billion in 2017.

Buyout multiples decreased slightly from 2017. Average EV/EBITDA was 11.6x through December 31, 2018 (down from 11.9x in 2017) with debt multiples averaging 6.2x through the fourth quarter. Debt as a percentage of transaction value hovered around 54%.

Balancing high deal multiples and a growing number of deals against a slowdown in fundraising, we advocate selectivity in fund investments.

Deals increased in buyouts and venture; multiples are steady; buyout fundraising has slowed

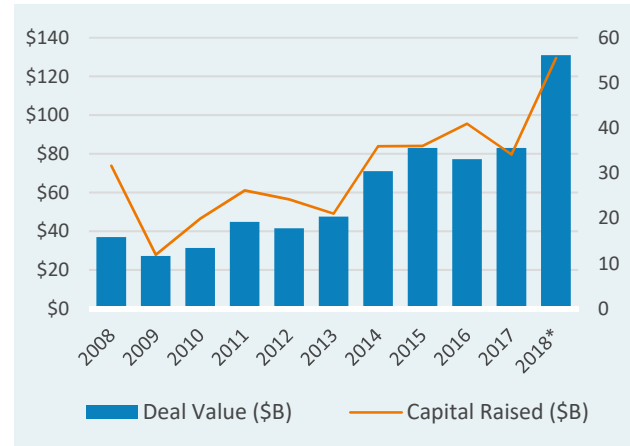
TRANSACTION MULTIPLES



Source: PitchBook, as of 12/31/18

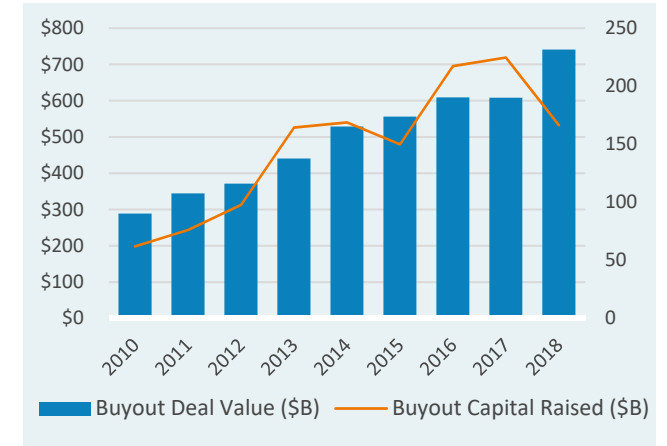
*2018 figures are estimates and are subject to change

VENTURE DEAL VOLUME & FUNDRAISING



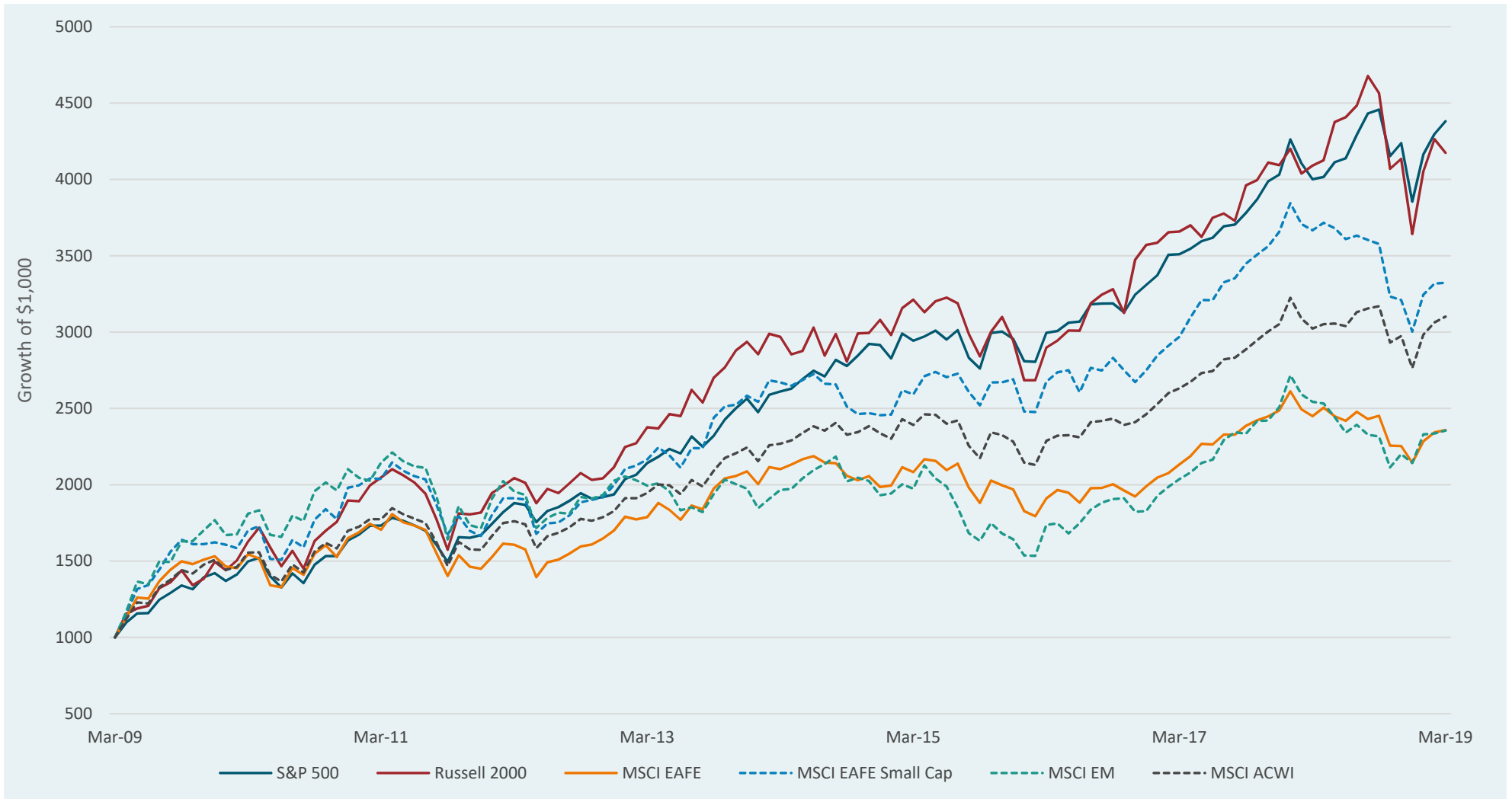
Source: PitchBook, as of 12/31/18

BUYOUTS DEAL VOLUME & CAPITAL RAISED



Source: PitchBook, as of 12/31/18

Long-term equity performance



Source: Morningstar, as of 3/31/19

Other assets

Currency

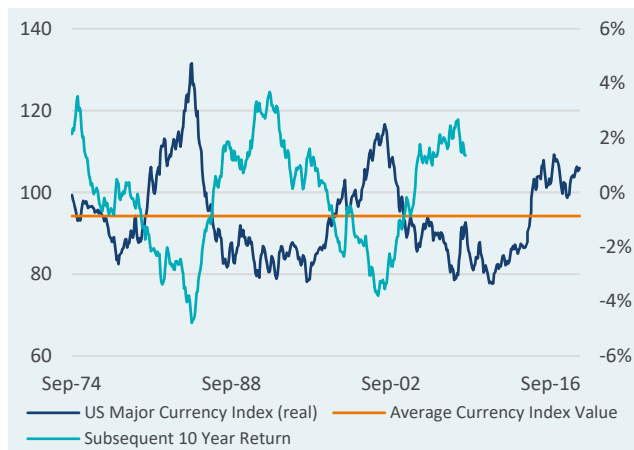
The U.S. dollar failed to gain traction in either direction during the first quarter, and remained near cycle highs. The Major Trade Weighted U.S. Dollar Index fell 0.3% over the period, but was 12.5% above its long-term average dating back to 1974 at the end of March. Expectations for a more accommodative Fed and weaker relative U.S. economic growth (from strong levels in 2018) has led many investors to call for U.S. dollar depreciation, but this has not occurred thus far. This may in part be because other developed central banks have followed the Fed's lead in moving away from monetary tightening.

Emerging market currencies were relatively stable versus the dollar for a second consecutive quarter. The JPMorgan Emerging Market Currency Index gained 0.4%. EM currencies have yet to stage a major comeback after falling more than 15% in the middle of last year.

The U.S. dollar remained near a cycle high

Despite some high-profile Brexit related volatility in the British pound, the global FX market has been relatively quiet. The trailing 1-year volatility of the Bloomberg Dollar Spot Index was 5.2% at the end of the quarter, the lowest level since 2014.

U.S. DOLLAR TRADE WEIGHTED INDEX



Source: Federal Reserve, Verus, as of 3/31/19

JPM EMERGING MARKET CURRENCY INDEX



Source: Bloomberg, JPMorgan, as of 3/31/19

BLOOMBERG DOLLAR SPOT INDEX VOLATILITY



Source: Bloomberg, as of 3/31/19, trailing 12-month vol shown

Hedge funds

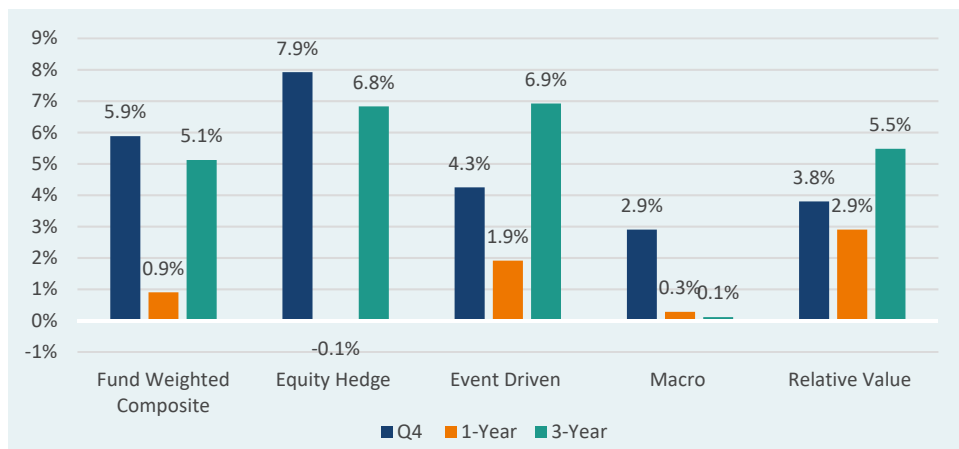
Hedge funds consistently advanced alongside the broad markets and enjoyed the best first calendar quarter result since 2006 (Hedge Fund Weighted Composite (FWC) +5.9% in 2019Q1; +0.9% trailing 12-months). While gains were broad based across strategy types, funds with greater equity market sensitivity earned the highest results. Within the equity hedge strategy set, funds with higher beta exposure rallied strongly.

According to Hedge Fund Research, growth-oriented managers (+9.3%) narrowly outperformed value-oriented (9%) peers. Healthcare focused funds (+13.2%) also stood out as winners. Activists (+8.3%) largely rebounded from a dismal Q4 last year.

For managers trading fixed income securities, funds focused on convertible arbitrage (+5.5%) and credit arbitrage (+5.1%) fared well as those markets bounced back this quarter. Asset backed (+1.7%) and fixed income multi-strategy managers (+2%) posted more muted gains.

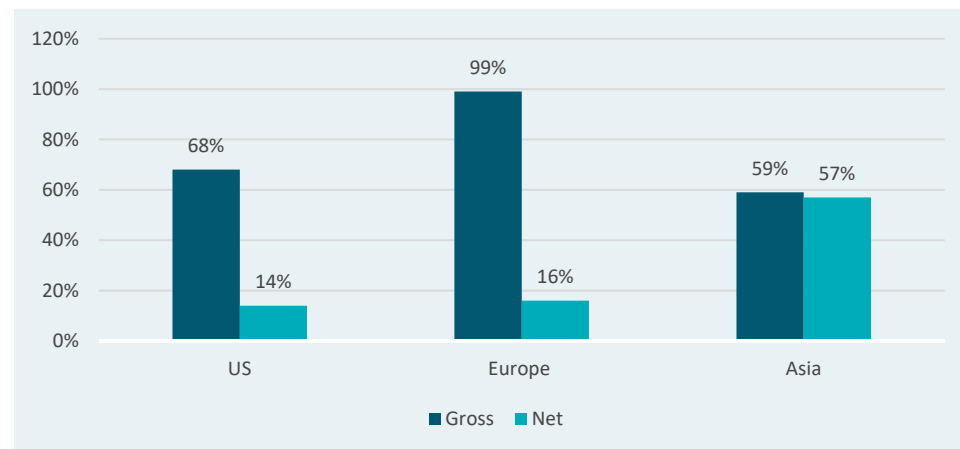
Hedge funds responded to the Q4 sell-off last year by cutting gross and net exposure levels to relatively low levels by year end. Gross leverage has since largely rebounded while net exposure, with the exception of Asia, remains below pre-sell off levels.

HFRI HEDGE FUND STYLE PERFORMANCE



Source: HFRI, as of 3/31/19

HEDGE FUND LEVERAGE LEVELS BY REGION



Source: Morgan Stanley, as of 3/31/19

Appendix

Periodic table of returns

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	YTD	5-Year	10-Year
Small Cap Growth	38.7	66.4	31.8	14.0	25.9	56.3	26.0	34.5	32.6	39.8	5.2	79.0	29.1	14.3	18.6	43.3	13.5	13.3	31.7	37.3	6.7	17.1	13.5	17.5
Large Cap Growth	27.0	43.1	22.8	8.4	10.3	48.5	22.2	21.4	26.9	16.2	1.4	37.2	26.9	7.8	18.1	38.8	13.2	5.7	21.3	30.2	1.9	16.1	10.6	16.5
Small Cap Equity	20.3	33.2	12.2	7.3	6.7	47.3	20.7	20.1	23.5	15.8	-6.5	34.5	24.5	2.6	17.9	34.5	13.0	0.9	17.3	25.0	0.0	14.6	8.7	16.0
Large Cap Equity	19.3	27.3	11.6	3.3	1.6	46.0	18.3	14.0	22.2	11.8	-21.4	32.5	19.2	1.5	17.5	33.5	11.8	0.6	12.1	22.2	-1.5	14.0	8.4	15.4
Large Cap Value	16.2	26.5	7.0	2.8	1.0	39.2	16.5	7.5	18.4	11.6	-25.9	28.4	16.8	0.4	16.4	33.1	6.0	0.0	11.8	21.7	-3.5	11.9	7.7	14.5
Small Cap Value	15.6	24.3	6.0	2.5	-5.9	30.0	14.5	7.1	16.6	10.9	-28.9	27.2	16.7	0.1	16.3	32.5	5.6	-0.4	11.3	17.1	-4.8	11.9	7.1	14.1
International Equity	8.7	21.3	4.1	-2.4	-6.0	29.9	14.3	6.3	15.5	10.3	-33.8	23.3	16.1	-2.1	15.3	23.3	4.9	-0.8	11.2	14.6	-6.0	10.0	5.6	9.0
Emerging Markets Equity	4.9	20.9	-3.0	-5.6	-11.4	29.7	12.9	5.3	15.1	7.0	-35.6	20.6	15.5	-2.9	14.6	12.1	4.2	-1.4	8.0	13.7	-8.3	9.9	4.4	8.9
60/40 Global Portfolio	1.2	13.2	-7.3	-9.1	-15.5	25.2	11.4	4.7	13.3	7.0	-36.8	19.7	13.1	-4.2	11.5	11.0	3.4	-2.5	7.1	7.8	-9.3	8.1	3.7	8.5
Commodities	-2.5	11.4	-7.8	-9.2	-15.7	23.9	9.1	4.6	10.4	5.8	-37.6	18.9	10.2	-5.5	10.5	9.0	2.8	-3.8	5.7	7.7	-11.0	6.3	2.7	8.3
Hedge Funds of Funds	-5.1	7.3	-14.0	-12.4	-20.5	11.6	6.9	4.6	9.1	4.4	-38.4	11.5	8.2	-5.7	4.8	0.1	0.0	-4.4	2.6	7.0	-11.2	5.0	2.3	3.8
US Bonds	-6.5	4.8	-22.4	-19.5	-21.7	9.0	6.3	4.2	4.8	-0.2	-38.5	5.9	6.5	-11.7	4.2	-2.0	-1.8	-7.5	1.0	3.5	-12.9	2.9	2.3	3.6
Cash	-25.3	-0.8	-22.4	-20.4	-27.9	4.1	4.3	3.2	4.3	-1.6	-43.1	0.2	5.7	-13.3	0.1	-2.3	-4.5	-14.9	0.5	1.7	-13.8	0.6	0.8	0.4
Real Estate	-27.0	-1.5	-30.6	-21.2	-30.3	1.0	1.4	2.4	2.1	-9.8	-53.2	-16.9	0.1	-18.2	-1.1	-9.5	-17.0	-24.7	0.3	0.9	-14.6	0.0	-8.9	-2.6

BEST



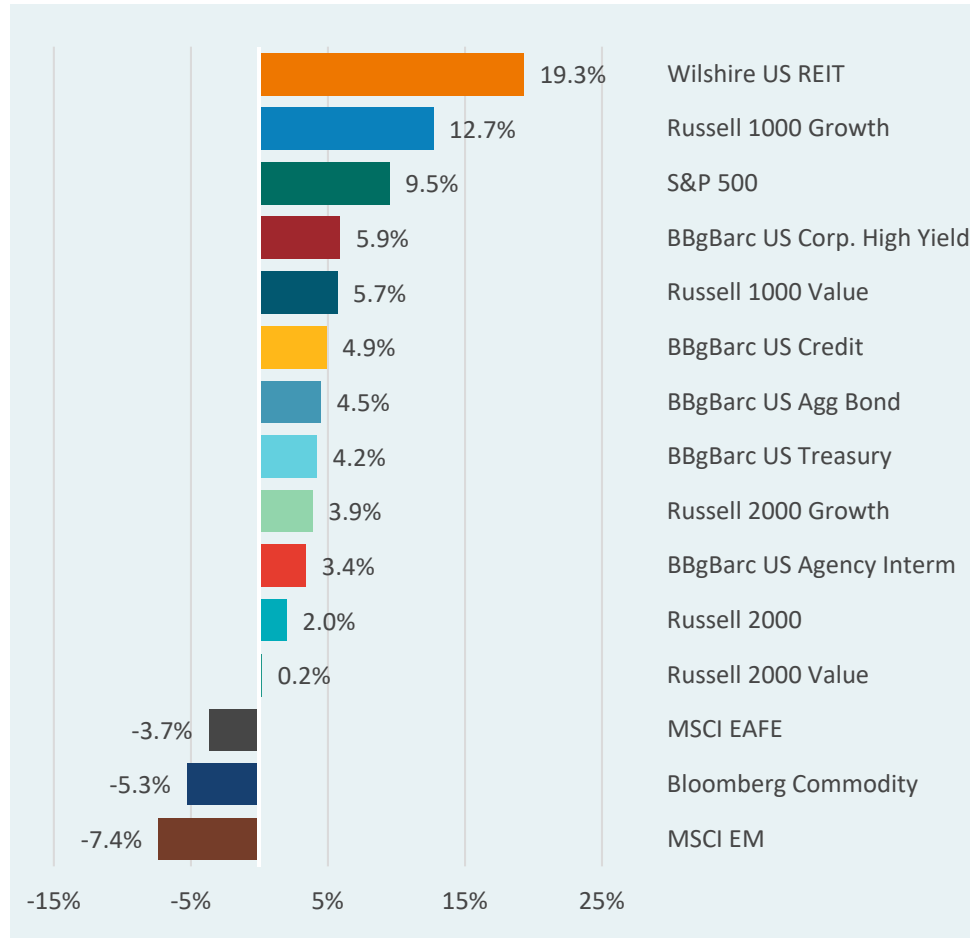
WORST

- Large Cap Equity
- Small Cap Growth
- Commodities
- Large Cap Value
- International Equity
- Real Estate
- Emerging Markets Equity
- Hedge Funds of Funds
- US Bonds
- 60% MSCI ACWI/40% BBgBarc Global Bond
- Cash

Source Data: Morningstar, Inc., Hedge Fund Research, Inc. (HFR), National Council of Real Estate Investment Fiduciaries (NCREIF). Indices used: Russell 1000, Russell 1000 Value, Russell 1000 Growth, Russell 2000, Russell 2000 Value, Russell 2000 Growth, MSCI EAFE, MSCI EM, BBgBarc US Aggregate, T-Bill 90 Day, Bloomberg Commodity, NCREIF Property, HFRI FOF, MSCI ACWI, BBgBarc Global Bond. NCREIF Property Index performance data as of 12/31/18.

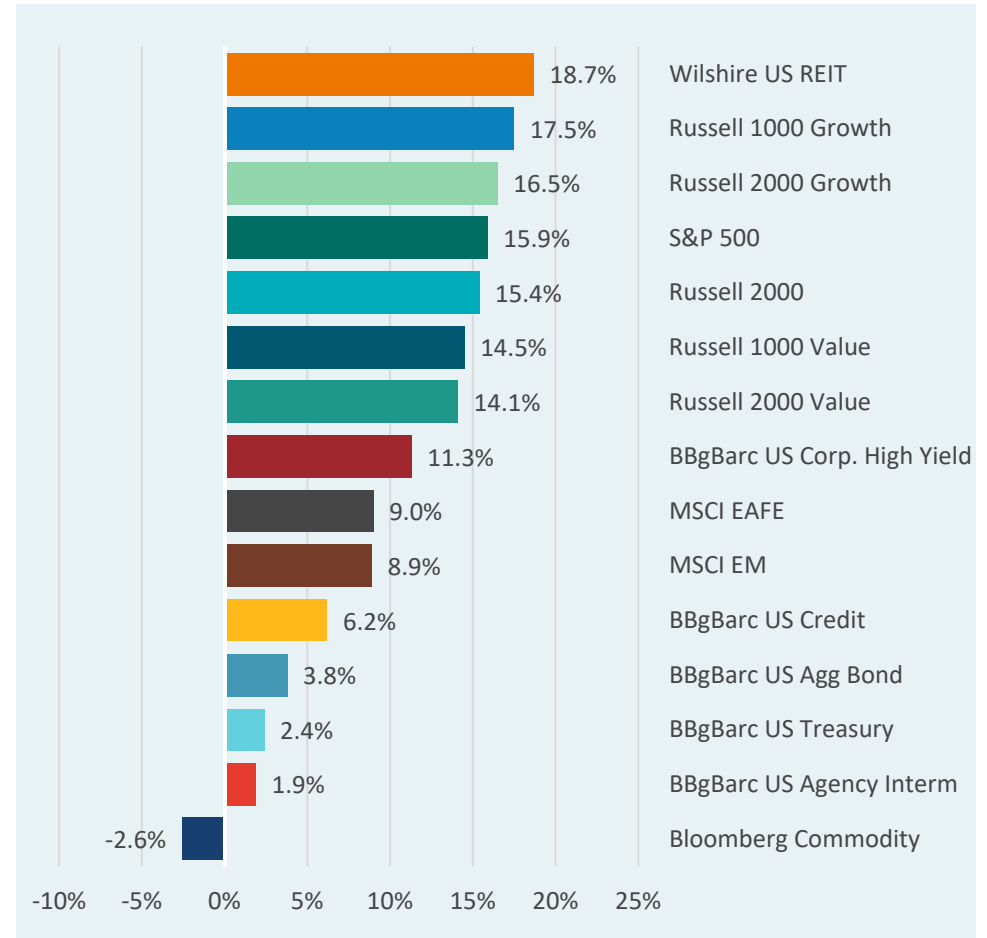
Major asset class returns

ONE YEAR ENDING MARCH



Source: Morningstar, as of 3/31/19

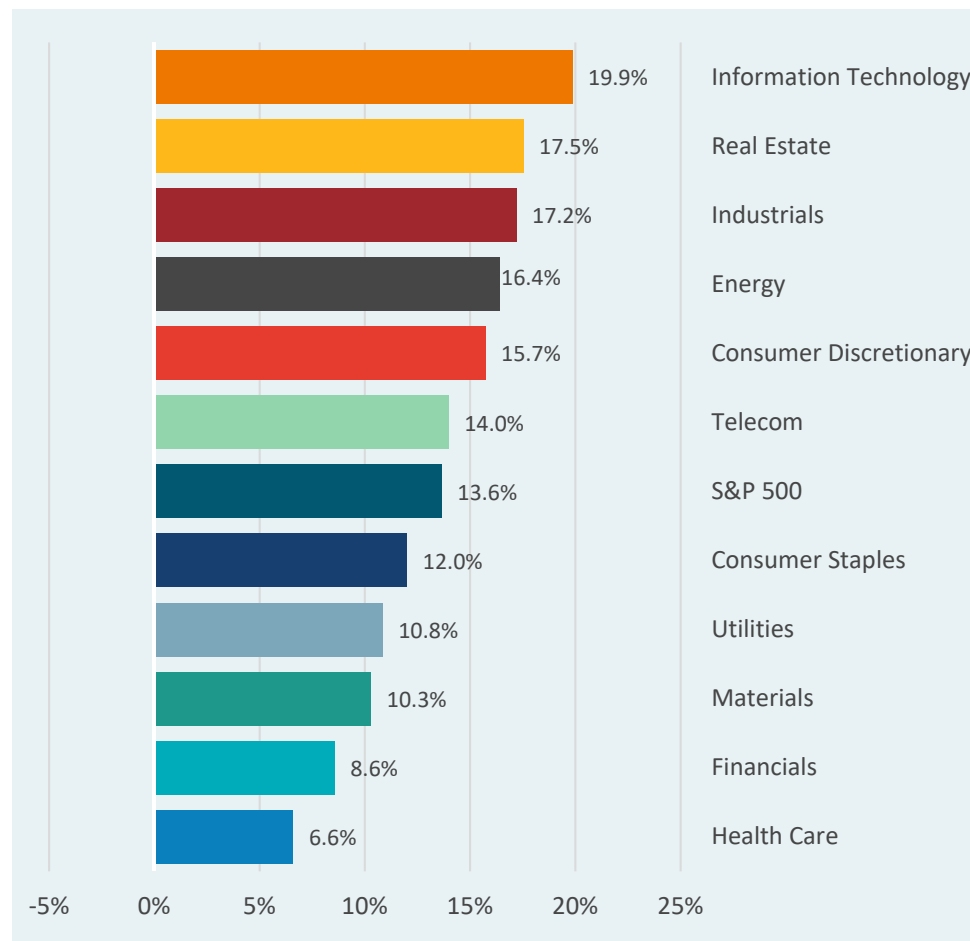
TEN YEARS ENDING MARCH



Source: Morningstar, as of 3/31/19

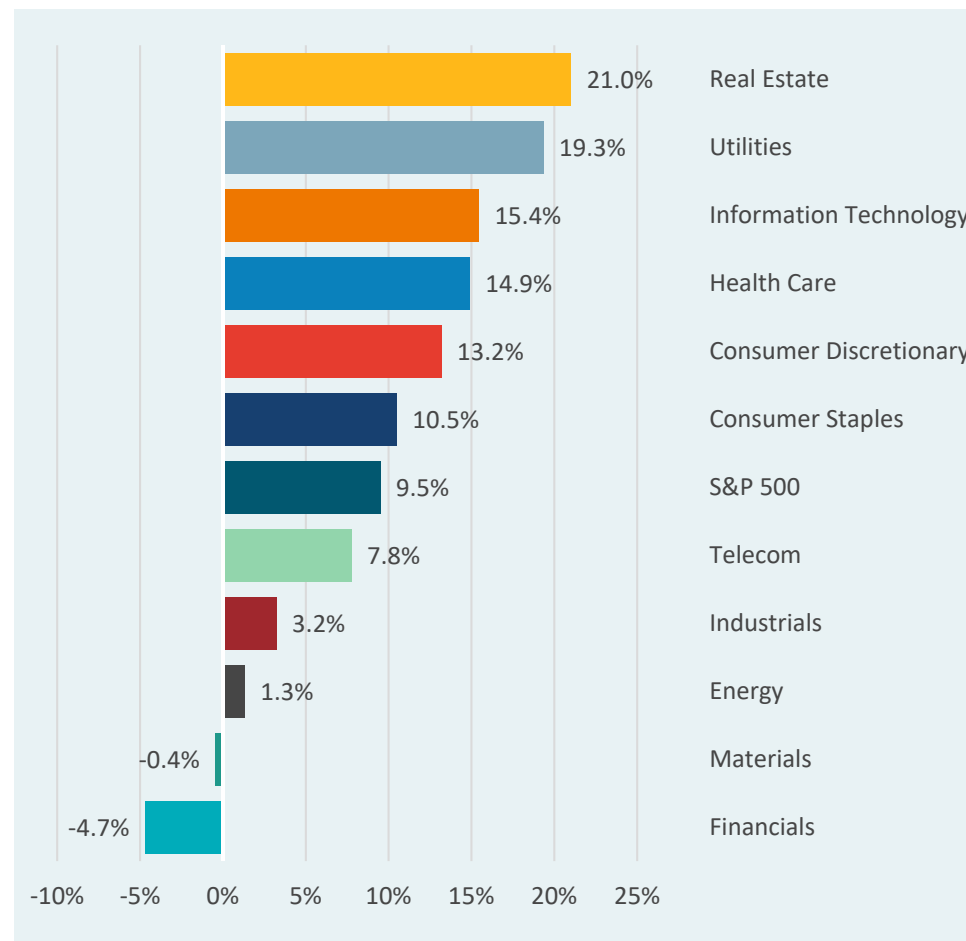
S&P 500 sector returns

QTD



Source: Morningstar, as of 3/31/19

ONE YEAR ENDING MARCH



Source: Morningstar, as of 3/31/19

Detailed index returns

DOMESTIC EQUITY

	Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
Core Index							
S&P 500	1.9	13.6	13.6	9.5	13.5	10.9	15.9
S&P 500 Equal Weighted	0.9	14.9	14.9	7.2	12.0	9.5	17.8
DJ Industrial Average	0.2	11.8	11.8	10.1	16.4	12.2	16.0
Russell Top 200	2.1	13.1	13.1	10.4	14.2	11.4	15.7
Russell 1000	1.7	14.0	14.0	9.3	13.5	10.6	16.0
Russell 2000	(2.1)	14.6	14.6	2.0	12.9	7.1	15.4
Russell 3000	1.5	14.0	14.0	8.8	13.5	10.4	16.0
Russell Mid Cap	0.9	16.5	16.5	6.5	11.8	8.8	16.9
Style Index							
Russell 1000 Growth	2.8	16.1	16.1	12.7	16.5	13.5	17.5
Russell 1000 Value	0.6	11.9	11.9	5.7	10.5	7.7	14.5
Russell 2000 Growth	(1.4)	17.1	17.1	3.9	14.9	8.4	16.5
Russell 2000 Value	(2.9)	11.9	11.9	0.2	10.9	5.6	14.1

INTERNATIONAL EQUITY

Broad Index							
MSCI ACWI	1.3	12.2	12.2	2.6	10.7	6.5	12.0
MSCI ACWI ex US	0.6	10.3	10.3	(4.2)	8.1	2.6	8.8
MSCI EAFE	0.6	10.0	10.0	(3.7)	7.3	2.3	9.0
MSCI EM	0.8	9.9	9.9	(7.4)	10.7	3.7	8.9
MSCI EAFE Small Cap	0.2	10.7	10.7	(9.4)	7.5	4.5	12.8
Style Index							
MSCI EAFE Growth	1.8	12.0	12.0	(1.3)	7.6	3.9	9.7
MSCI EAFE Value	(0.5)	7.9	7.9	(6.1)	6.9	0.7	8.1
Regional Index							
MSCI UK	1.1	11.9	11.9	(0.1)	6.3	0.7	9.3
MSCI Japan	0.6	6.7	6.7	(7.8)	8.1	5.6	8.0
MSCI Euro	0.0	9.8	9.8	(7.8)	6.5	0.6	7.5
MSCI EM Asia	1.8	11.1	11.1	(6.8)	11.8	6.2	10.8
MSCI EM Latin American	(2.5)	7.9	7.9	(6.7)	11.1	(0.3)	5.3

FIXED INCOME

	Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
Broad Index							
BBgBarc US TIPS	1.8	3.2	3.2	2.7	1.7	1.9	3.4
BBgBarc US Treasury Bills	0.2	0.6	0.6	2.2	1.2	0.8	0.5
BBgBarc US Agg Bond	1.9	2.9	2.9	4.5	2.0	2.7	3.8
Duration							
BBgBarc US Treasury 1-3 Yr	0.6	1.0	1.0	2.7	1.0	1.0	1.0
BBgBarc US Treasury Long	5.3	4.7	4.7	6.2	1.5	5.4	5.1
BBgBarc US Treasury	1.9	2.1	2.1	4.2	1.0	2.2	2.4
Issuer							
BBgBarc US MBS	1.5	2.2	2.2	4.4	1.8	2.6	3.1
BBgBarc US Corp. High Yield	0.9	7.3	7.3	5.9	8.6	4.7	11.3
BBgBarc US Agency Interm	0.9	1.4	1.4	3.4	1.2	1.6	1.9
BBgBarc US Credit	2.4	4.9	4.9	4.9	3.5	3.6	6.2

OTHER

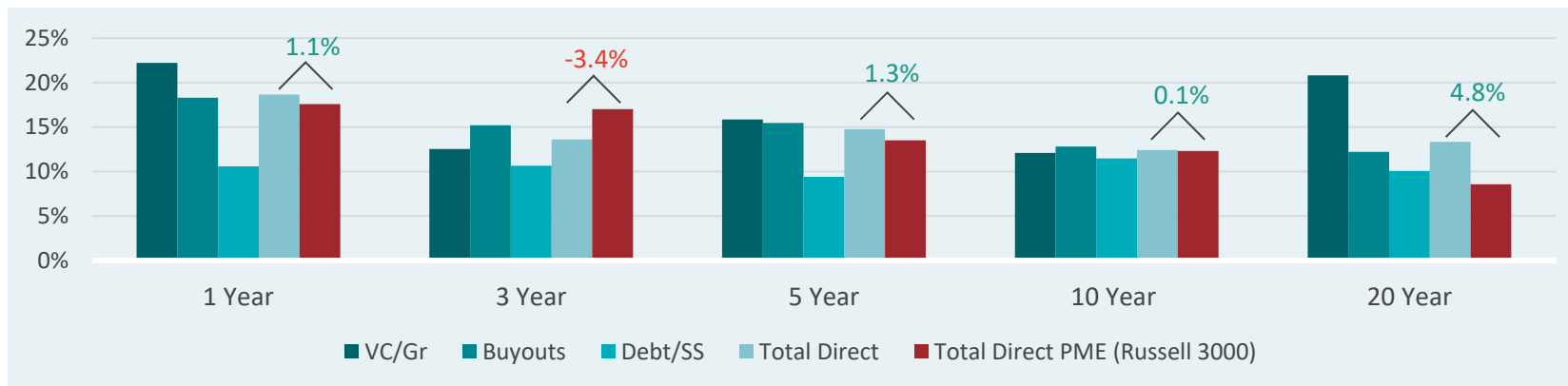
Index							
Bloomberg Commodity	(0.2)	6.3	6.3	(5.3)	2.2	(8.9)	(2.6)
Wilshire US REIT	3.2	16.0	16.0	19.3	5.5	9.0	18.7
CS Leveraged Loans	(0.1)	3.8	3.8	3.3	5.9	3.8	8.0
Alerian MLP	3.8	17.4	17.4	16.8	5.9	(4.2)	11.1
Regional Index							
JPM EMBI Global Div	1.4	7.0	7.0	4.2	5.8	5.4	8.5
JPM GBI-EM Global Div	(1.3)	2.9	2.9	(7.6)	3.3	(0.8)	4.4
Hedge Funds							
HFRI Composite	1.0	5.9	5.9	0.9	5.1	3.1	5.5
HFRI FOF Composite	1.3	5.0	5.0	0.5	4.1	2.3	3.6
Currency (Spot)							
Euro	(1.4)	(1.8)	(1.8)	(8.7)	(0.5)	(4.0)	(1.7)
Pound	(2.0)	2.3	2.3	(7.1)	(3.2)	(4.8)	(0.9)
Yen	0.6	(0.9)	(0.9)	(3.9)	0.5	(1.4)	(1.1)

Source: Morningstar, HFR, as of 3/31/19

Private equity vs. public performance

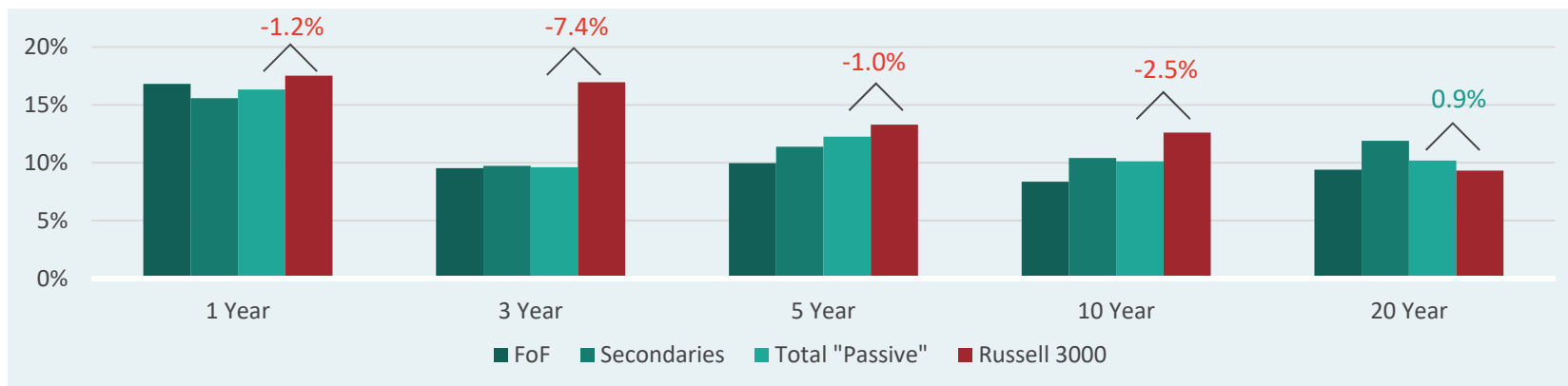
As of 9/30/2018

PUBLIC MARKET EQUIVALENT (PME) ANALYSIS - DIRECT PRIVATE EQUITY



Public market equivalent (PME) analysis shows that direct private equity has outperformed public equity over most periods

PUBLIC MARKET EQUIVALENT (PME) ANALYSIS - "PASSIVE" PRIVATE EQUITY



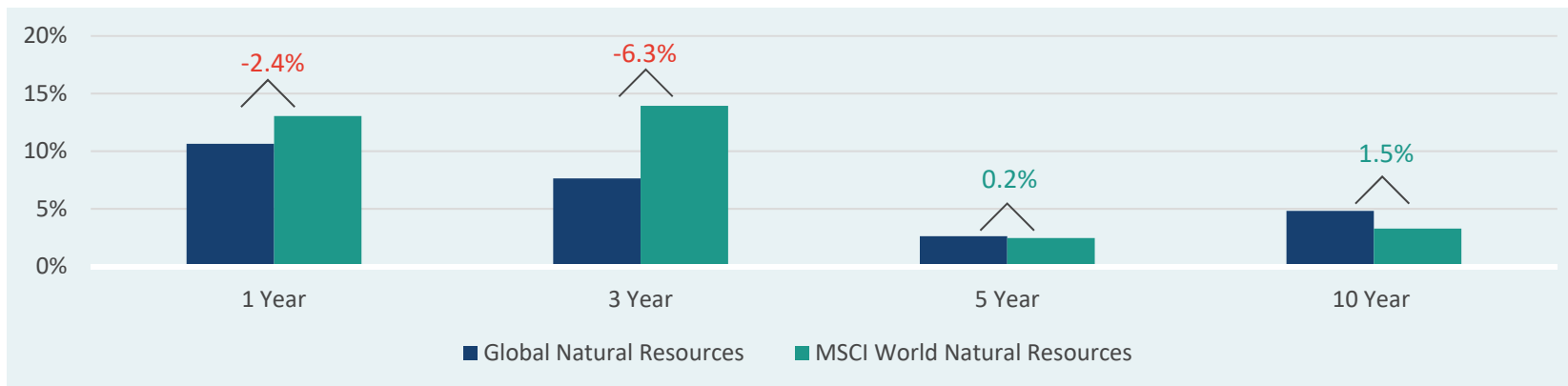
Fund-of-fund & secondary private equity investments have lagged public equities

Sources: Thomson Reuters Cambridge Universe's PME Module: U.S. Private Equity Funds sub asset classes as of September 30, 2018. Public Market Equivalent returns resulted from "Total Passive" and Total Direct's identical cash flows invested into and distributed from respective traditional asset comparable.

Private vs. liquid real assets performance

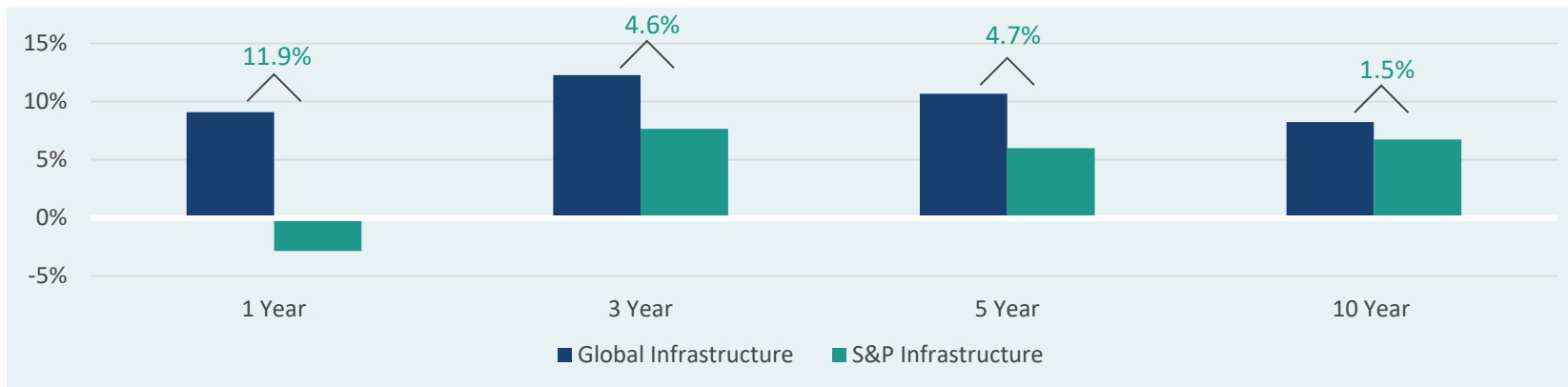
As of 9/30/2018

PUBLIC MARKET EQUIVALENT (PME) ANALYSIS - GLOBAL NATURAL RESOURCES FUNDS



Public market equivalent (PME) analysis shows that private infrastructure has recently underperformed publicly listed infrastructure

PUBLIC MARKET EQUIVALENT (PME) ANALYSIS - GLOBAL INFRASTRUCTURE FUNDS



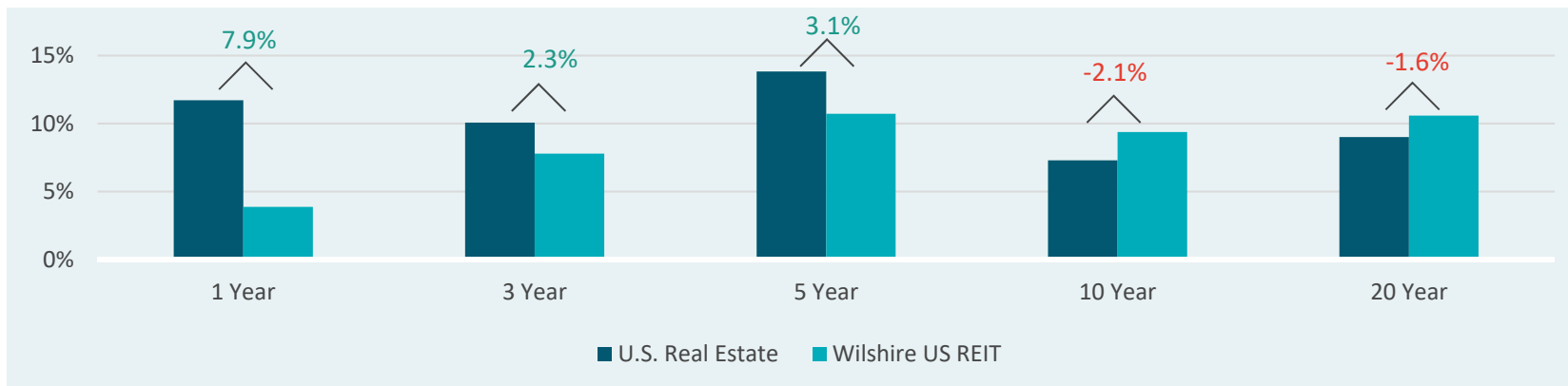
Private infrastructure has materially outperformed publicly listed infrastructure

Sources: Thomson Reuters CJA PME: Global Natural Resources (vintage 1996 and later, inception of MSCI ACWI Energy benchmark) and Global Infrastructure (vintage 2002 and later, inception of S&P Infrastructure benchmark) universes as of September 30, 2018. Public Market Equivalent returns resulted from identical cash flows invested into and distributed from respective liquid real assets universes.

Private vs. liquid & core real estate performance

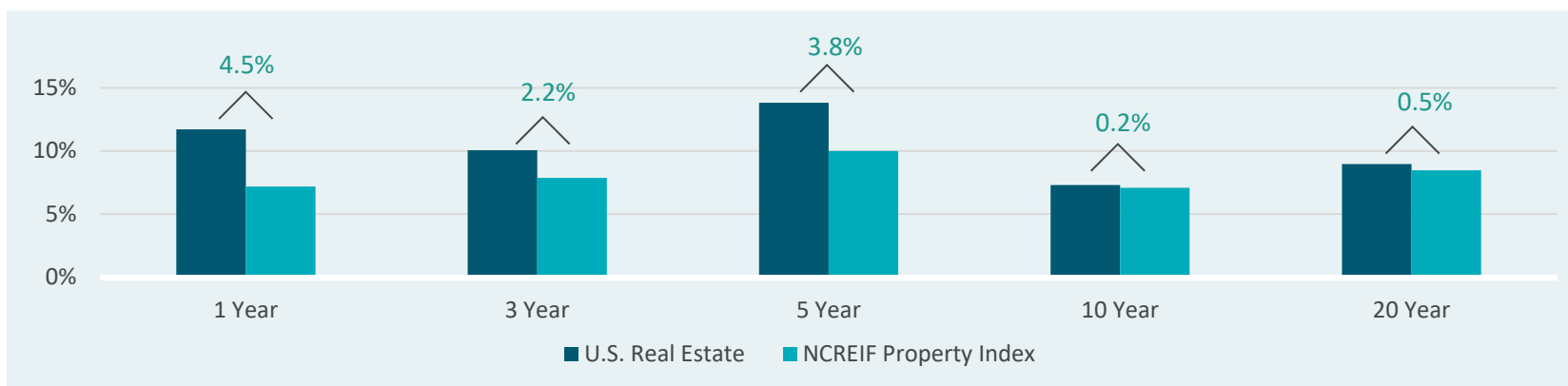
As of 9/30/2018

PUBLIC MARKET EQUIVALENT (PME) ANALYSIS - U.S. PRIVATE REAL ESTATE VS. LIQUID UNIVERSE



Public market equivalent (PME) analysis shows that U.S. private R.E. has underperformed liquid real estate over the long-term

PUBLIC MARKET EQUIVALENT (PME) ANALYSIS - U.S. PRIVATE REAL ESTATE FUNDS VS. CORE FUNDS



U.S. private R.E. has outperformed the NCREIF Property Index over each time period

Sources: Thomson Reuters C|A PME: Global and U.S. Real Estate universes as of September 30, 2018. Public Market Equivalent returns resulted from identical cash flows invested into and distributed from respective liquid real estate universes.

Definitions

Bloomberg US Weekly Consumer Comfort Index - tracks the public's economic attitudes each week, providing a high-frequency read on consumer sentiment. The index, based on cell and landline telephone interviews with a random, representative national sample of U.S. adults, tracks Americans' ratings of the national economy, their personal finances and the buying climate on a weekly basis, with views of the economy's direction measured separately each month. (www.lanqerresearch.com)

University of Michigan Consumer Sentiment Index - A survey of consumer attitudes concerning both the present situation as well as expectations regarding economic conditions conducted by the University of Michigan. For the preliminary release approximately three hundred consumers are surveyed while five hundred are interviewed for the final figure. The level of consumer sentiment is related to the strength of consumer spending. (www.Bloomberg.com)

NFIB Small Business Outlook - Small Business Economic Trends (SBET) is a monthly assessment of the U.S. small-business economy and its near-term prospects. Its data are collected through mail surveys to random samples of the National Federal of Independent Business (NFIB) membership. The survey contains three broad question types: recent performance, near-term forecasts, and demographics. The topics addressed include: outlook, sales, earnings, employment, employee compensation, investment, inventories, credit conditions, and single most important problem. (<http://www.nfib-sbet.org/about/>)

NAHB Housing Market Index - the housing market index is a weighted average of separate diffusion indices for three key single-family indices: market conditions for the sale of new homes at the present time, market conditions for the sale of new homes in the next six months, and the traffic of prospective buyers of new homes. The first two series are rated on a scale of Good, Fair, and Poor and the last is rated on a scale of High/Very High, Average, and Low/Very Low. A diffusion index is calculated for each series by applying the formula $(\text{Good-Poor} + 100)/2$ to the present and future sales series and $(\text{High/Very High-Low/Very Low} + 100)/2$ to the traffic series. Each resulting index is then seasonally adjusted and weighted to produce the HMI. Based on this calculation, the HMI can range between 0 and 100.

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Western States Office & Professional Employees Pension Fund

Investment Performance Review

Period Ending: March 31, 2019



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SEATTLE 206-622-3700

LOS ANGELES 310-297-1777

SAN FRANCISCO 415-362-3484

1st quarter summary

THE ECONOMIC CLIMATE

- Real GDP growth continued at 3.0% YoY - on pace with the third quarter (2.2% quarterly annualized rate). Forecasts for 2019 U.S. growth have weakened. The U.S. economy is expected to grow at a 2.4% pace in 2019, according to the Survey of Professional Forecasters, while the Federal Reserve expects 2.1% growth this year.
- In March, negotiations resumed between U.S. and Chinese trade delegations. The dialogue was viewed as constructive, and optimism picked up for a trade resolution being reached in the near-to-intermediate future. The two sides have yet to agree on a formal timeline.

PORTFOLIO IMPACTS

- The Federal Open Market Committee reiterated its “patient” approach to policy, leaving rates unchanged, helping to push asset prices upward. Chairman Powell announced that starting in May the balance sheet runoff would slow from \$50 to \$30 billion a month, and would end in September.
- Risk assets exhibited strong performance over the quarter. U.S. equities delivered the greatest gains (S&P 500 +13.6%, MSCI ACWI +12.2%), reversing U.S. underperformance in Q4 2018 (S&P 500 -13.5%, MSCI ACWI -12.8%). This was followed by riskier credit with high single-digit returns, and safer credit and government bonds with low single-digit returns.

THE INVESTMENT CLIMATE

- The first quarter was nearly a mirror image of 2018 Q4, as many assets retraced losses of the prior quarter.
- Declining long-term Treasury yields following the Fed meeting in March briefly caused the yield curve to invert, meaning that short-term yields (3-month) were higher than long-term yields (10-year). Investors have expressed concerns that this may signal a near term recession. We believe these concerns are overblown.
- The House of Commons in the British Parliament briefly took control of their government’s legislative agenda, but failed to reach a majority vote on a path forward. On April 10th, British Prime Minister Theresa May and the European Council agreed to extend the Brexit deadline from April 12th to October 31st.

ASSET ALLOCATION ISSUES

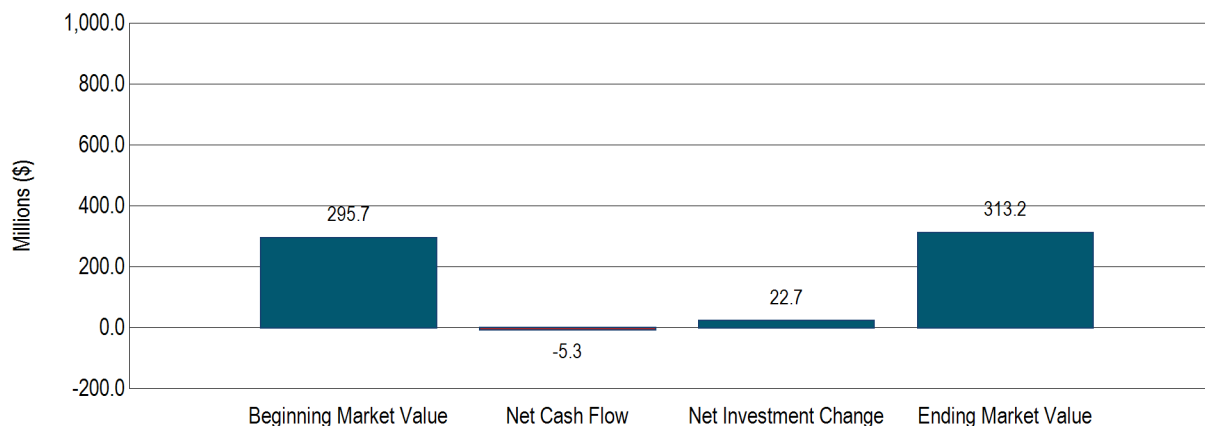
- All major asset classes delivered positive performance in Q1, a refreshing change of pace from broad-based losses experienced in 2018.
- Economic conditions around the world have exhibited a weakening trend, leading to the question of whether a turn in the economic cycle is near. The first quarter was more mixed with strength in places, easing some concern. We remain watchful of this weakening trend, but believe the economy and market may have more room to run.

A neutral risk stance may be appropriate in today’s environment

Portfolio Reconciliation

	Last Three Months	Year-To-Date
Beginning Market Value	\$295,732,840	\$295,732,840
Net Cash Flow	-\$5,311,504	-\$5,311,504
Net Investment Change	\$22,746,320	\$22,746,320
Ending Market Value	\$313,167,656	\$313,167,656

Change in Market Value
Last Three Months



Contributions and withdrawals may include intra-account transfers between managers/funds.

Total Fund

Cash Flow by Manager - Last Three Months

Period Ending: March 31, 2019

	Beginning Market Value	Contributions	Withdrawals	Net Cash Flow	Net Investment Change	Ending Market Value
BlackRock Equity Index NL	\$31,213,799	\$0	-\$2,200,000	-\$2,200,000	\$4,196,321	\$33,210,120
INTECH US Adaptive Volatility	\$27,859,537	\$0	\$0	\$0	\$3,683,974	\$31,543,511
PanAgora US Small Cap Core Stock Selector	\$15,183,447	\$0	\$0	\$0	\$2,208,442	\$17,391,889
WCM Focused International Growth Fund, L.P.	\$26,357,478	\$0	\$0	\$0	\$3,433,638	\$29,791,116
Causeway International Value Ins	\$17,038,011	\$0	\$0	\$0	\$1,752,129	\$18,790,140
Brandes International Small Cap Equity	\$5,729,655	\$0	\$0	\$0	\$230,250	\$5,959,905
Loomis Sayles Core Plus	\$63,621,886	\$0	\$0	\$0	\$2,255,173	\$65,877,059
ASB Allegiance Real Estate	\$25,810,112	\$0	-\$64,800	-\$64,800	\$517,684	\$26,262,996
Invesco Real Estate II	\$43,037	\$0	\$0	\$0	-\$35	\$43,002
JPMorgan Special Situation Property	\$14,327,286	\$0	-\$55,673	-\$55,673	\$284,246	\$14,555,859
IFM Global Infrastructure (US) LP	\$9,123,884	\$0	-\$41,500	-\$41,500	\$239,397	\$9,321,781
JPMorgan IIF ERISA LP	\$8,307,626	\$0	-\$167,115	-\$167,115	\$87,212	\$8,227,723
Invesco Balanced-Risk Allocation	\$46,602,126	\$0	-\$2,900,000	-\$2,900,000	\$3,857,890	\$47,560,016
US Bank Checking Account	\$1,939,155	\$9,150,902	-\$9,031,859	\$119,043	\$0	\$2,058,197
US Bank Clearing Account	\$2,575,801	\$7,716,834	-\$7,718,293	-\$1,459	\$0	\$2,574,342
Total	\$295,732,840	\$16,867,736	-\$22,179,240	-\$5,311,504	\$22,746,320	\$313,167,656

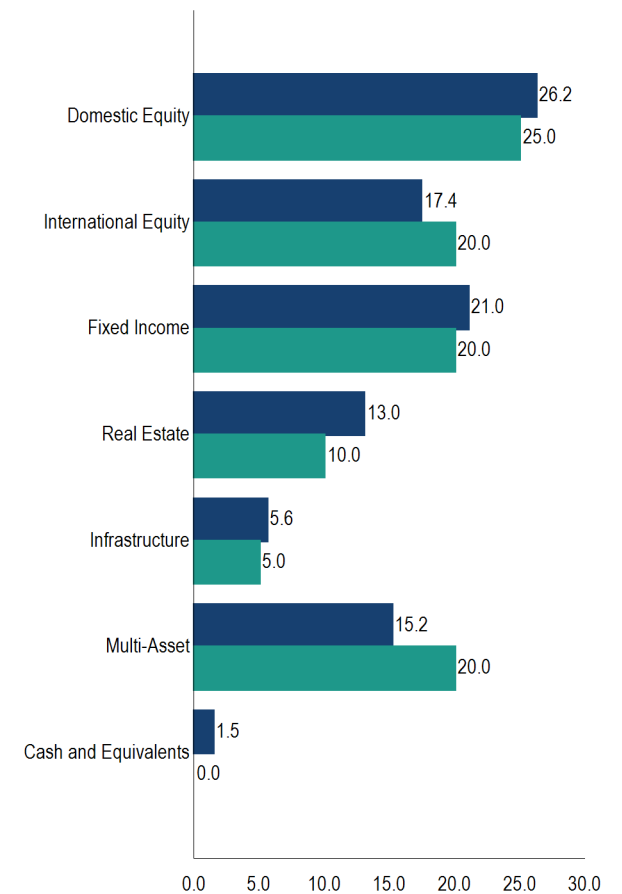
Loomis Sayles Full Discretion liquidated 3/21/2017. Loomis Sayles Core Plus funded 3/21/2017. Parametric liquidated 4/21/2017. Mellon Dynamic liquidated 5/5/2017. Grosvenor Institutional liquidated 4/30/2018.

Total Fund Executive Summary (Net of Fees)

Period Ending: March 31, 2019

	Market Value	% of Portfolio	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs
Total Fund	313,167,656	100.0	7.7	3.7	7.5	5.6	9.7
<i>Total Fund Policy Index</i>			8.0	4.1	7.1	5.2	9.0
<i>Target Asset Allocation Policy Index</i>			8.4	5.0	7.9	6.4	9.5
<i>InvestorForce Tft-Hrtly DB \$250mm-\$1B Net Rank</i>			41	51	83	73	40
Total Domestic Equity	82,145,519	26.2	13.6	5.8	11.8	9.6	15.6
<i>Dow Jones U.S. Total Stock Market</i>			14.0	8.7	13.5	10.3	16.0
<i>InvestorForce Tft-Hrtly DB US Eq Net Rank</i>			70	71	79	39	28
Total International Equity	54,541,161	17.4	11.0	-2.4	7.4	2.4	7.6
<i>Total Public Int'l Equity Benchmark (MSCI ACWI ex US IMI)</i>			10.3	-5.0	7.9	2.7	8.5
<i>InvestorForce Tft-Hrtly DB ex-US Eq Net Rank</i>			39	6	58	55	85
Total Fixed Income	65,877,059	21.0	3.5	3.7	4.4	3.3	7.1
<i>Total Fixed Income Benchmark (BBgBarc Aggregate)</i>			2.9	4.5	2.0	2.7	3.8
<i>InvestorForce Tft-Hrtly DB US Fix Inc Net Rank</i>			31	79	20	21	10
Total Real Estate	40,861,857	13.0	1.9	7.8	6.1	8.9	8.0
<i>NCREIF-ODCE</i>			1.4	7.5	8.0	10.2	8.7
Total Infrastructure	17,549,505	5.6	1.9	5.9	10.2	7.1	7.6
<i>CPI + 5%</i>			2.4	6.9	7.3	6.5	6.9
Total Multi-Asset	47,560,016	15.2	8.5	3.5	6.4	5.2	10.1
<i>60% MSCI ACWI Net/40% FTSE WGBI</i>			7.9	1.2	6.8	4.2	8.2
<i>eV Global Balanced Net Rank</i>			62	57	81	54	32
Total Cash	4,632,539	1.5	0.0	0.0	0.5	-2.5	--

Actual vs Target Allocation (%)



Actual Policy

Policy Index: 45% MSCI World, 25% BBgBarc Aggregate, 10% NCREIF-ODCE, 20%(60% MSCI ACWI Net/40% CITI WGBI). Target Asset Allocation Policy Index: 25% Dow Jones US Total Stock, 20% MSCI ACWI ex US IMI, 20% BBgBarc Aggregate, 10% NCREIF-ODCE, 5% CPI + 5%, and 20% (60% MSCI ACWI Net/40% CITI WGBI). Data prior to 3Q 2015 is from previous consultant.

Total Fund

Risk Analysis - 3 & 5 Year (Net of Fees)

Period Ending: March 31, 2019

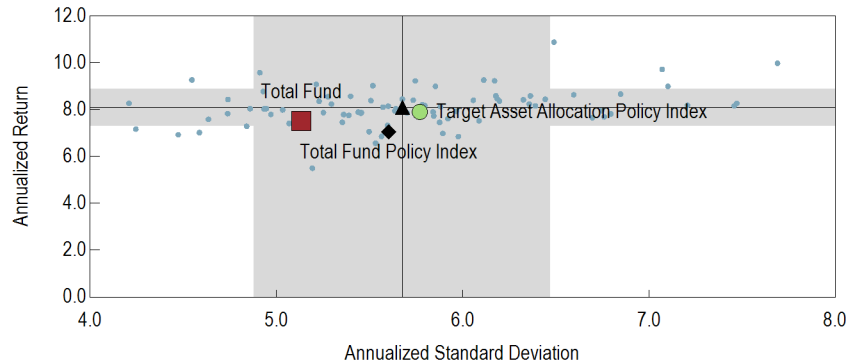
3 Year

	Anlzd Standard Deviation	Ann Excess BM Return	Anlzd Alpha	Beta	R-Squared	Up Mkt Capture Ratio	Down Mkt Capture Ratio	Information Ratio	Tracking Error	Sharpe Ratio
Total Fund	5.13%	0.47%	1.21%	0.89	0.95	96.47%	82.76%	0.37	1.26%	1.22
Total Fund Policy Index	5.60%	0.00%	0.00%	1.00	1.00	100.00%	100.00%	--	0.00%	1.04
Target Asset Allocation Policy Index	5.77%	0.85%	0.71%	1.02	0.98	107.36%	97.67%	1.05	0.81%	1.16

5 Year

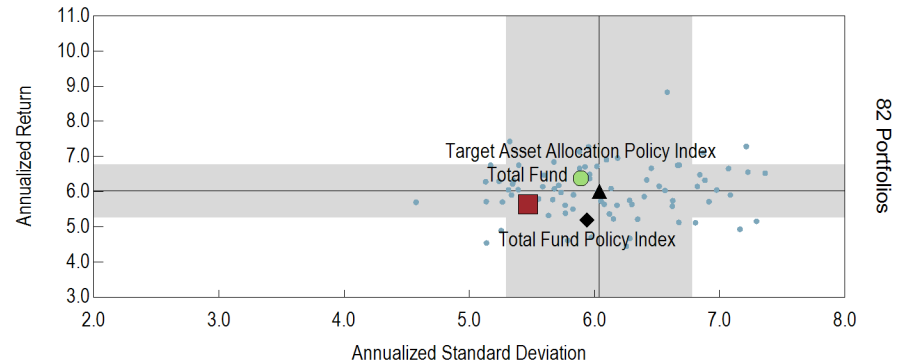
	Anlzd Standard Deviation	Ann Excess BM Return	Anlzd Alpha	Beta	R-Squared	Up Mkt Capture Ratio	Down Mkt Capture Ratio	Information Ratio	Tracking Error	Sharpe Ratio
Total Fund	5.47%	0.45%	0.97%	0.90	0.96	94.31%	85.44%	0.35	1.29%	0.89
Total Fund Policy Index	5.94%	0.00%	0.00%	1.00	1.00	100.00%	100.00%	--	0.00%	0.75
Target Asset Allocation Policy Index	5.89%	1.19%	1.29%	0.98	0.98	105.72%	89.39%	1.33	0.89%	0.95

3 Year



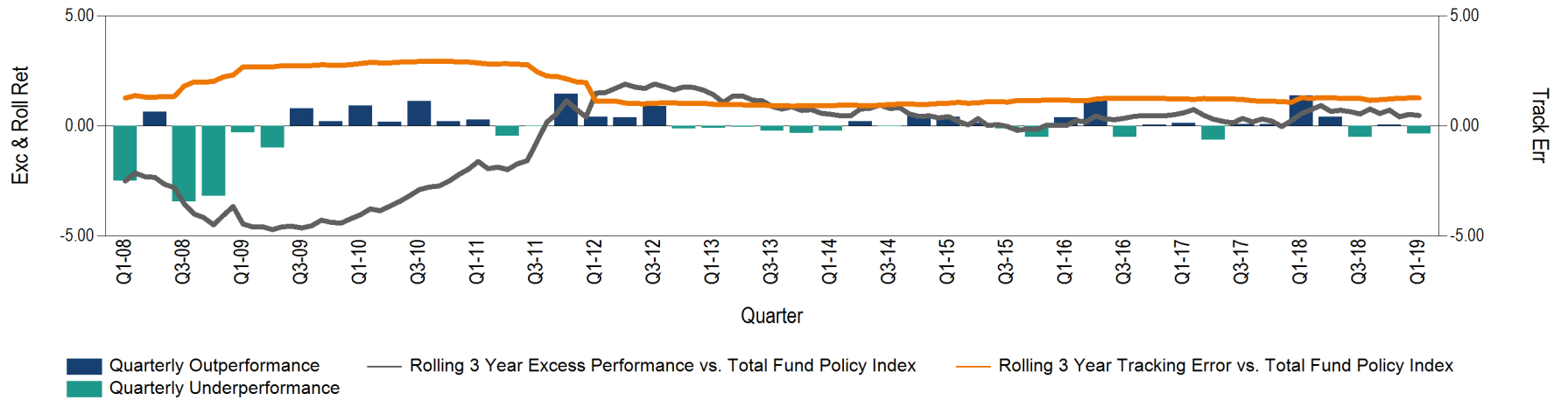
- Total Fund
- ◆ Total Fund Policy Index
- Target Asset Allocation Policy Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Tft-Hrtly DB \$250mm-\$1B Net

5 Year

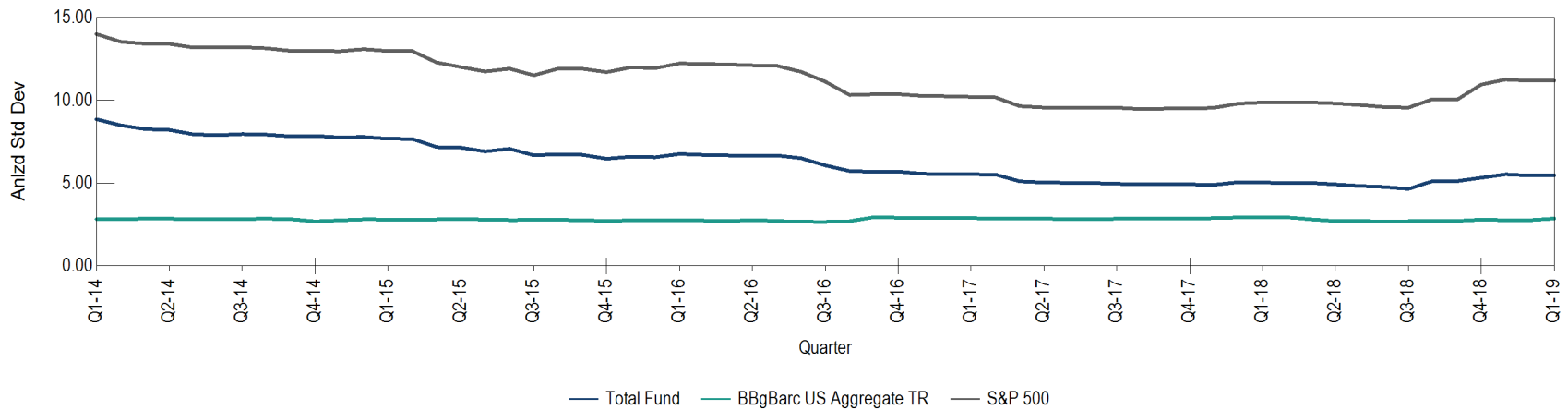


- Total Fund
- ◆ Total Fund Policy Index
- Target Asset Allocation Policy Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Tft-Hrtly DB \$250mm-\$1B Net

Rolling Annualized Excess Performance and Tracking Error



Rolling 5 Year Annualized Standard Deviation



Total Fund
Executive Summary (Net of Fees)

Period Ending: March 31, 2019

	Market Value	% of Portfolio	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs	2018	2017	2016	2015	2014
Total Fund	313,167,656	100.0	7.7	3.7	7.5	5.6	9.7	-3.2	13.0	6.9	0.9	5.1
<i>Total Fund Policy Index</i>			8.0	4.1	7.1	5.2	9.0	-4.5	13.5	5.8	1.1	4.7
<i>Target Asset Allocation Policy Index</i>			8.4	5.0	7.9	6.4	9.5	-3.2	13.7	7.2	1.3	7.1
<i>InvestorForce Tft-Hrtly DB \$250mm-\$1B Net Rank</i>			41	51	83	73	40	45	64	80	38	70
Domestic Equity	82,145,519	26.2										
BlackRock Equity Index NL	33,210,120	10.6	13.7	9.5	13.5	10.9	--	-4.4	21.8	11.9	1.3	13.8
S&P 500			13.6	9.5	13.5	10.9	--	-4.4	21.8	12.0	1.4	13.7
<i>eV US Large Cap Core Equity Net Rank</i>			34	28	22	17	--	32	46	21	37	33
INTECH US Adaptive Volatility	31,543,511	10.1	13.2	--	--	--	--	--	--	--	--	--
Russell 1000			14.0	--	--	--	--	--	--	--	--	--
<i>eV US Large Cap Core Equity Net Rank</i>			45	--	--	--	--	--	--	--	--	--
PanAgora US Small Cap Core Stock Selector	17,391,889	5.6	14.3	0.5	11.4	--	--	-9.2	10.8	20.3	--	--
Russell 2000			14.6	2.0	12.9	--	--	-11.0	14.6	21.3	--	--
<i>eV US Small Cap Core Equity Net Rank</i>			39	55	56	--	--	36	83	41	--	--
International Equity	54,541,161	17.4										
WCM Focused International Growth Fund, L.P.	29,791,116	9.5	13.0	3.3	--	--	--	-7.4	31.1	--	--	--
MSCI ACWI ex USA			10.3	-4.2	--	--	--	-14.2	27.2	--	--	--
<i>eV ACWI ex-US All Cap Growth Eq Net Rank</i>			65	2	--	--	--	1	71	--	--	--
Causeway International Value Ins	18,790,140	6.0	10.3	-6.7	--	--	--	-18.6	27.2	--	--	--
MSCI EAFE			10.0	-3.7	--	--	--	-13.8	25.0	--	--	--
<i>Foreign Large Value MStar MF Rank</i>			16	31	--	--	--	91	14	--	--	--
Brandes International Small Cap Equity	5,959,905	1.9	4.0	-12.7	--	--	--	-17.6	11.6	--	--	--
S&P Developed Ex-U.S. SmallCap			10.4	-9.2	--	--	--	-18.4	32.4	--	--	--
<i>eV ACWI ex-US Small Cap Equity Net Rank</i>			95	72	--	--	--	39	99	--	--	--
Fixed Income	65,877,059	21.0										
Loomis Sayles Core Plus	65,877,059	21.0	3.5	3.7	--	--	--	-0.4	--	--	--	--
BBgBarc US Aggregate TR			2.9	4.5	--	--	--	0.0	--	--	--	--
<i>eV US Core Plus Fixed Inc Net Rank</i>			60	88	--	--	--	40	--	--	--	--

Policy Index: 45% MSCI World, 25% BBgBarc Aggregate, 10% NCREIF-ODCE, 20%(60% MSCI ACWI Net/40% CITI WGBI). Target Asset Allocation Policy Index: 25% Dow Jones US Total Stock, 20% MSCI ACWI ex US IMI, 20% BBgBarc Aggregate, 10% NCREIF-ODCE, 5% CPI + 5%, and 20% (60% MSCI ACWI Net/40% CITI WGBI). Loomis Sayles Core Plus replaced Loomis Sayles Full Discretion 3/21/2017. Parametric liquidated 4/21/2017. Mellon Dynamic liquidated 5/5/2017. Grosvenor Institutional liquidated 4/30/2018. Data prior to 3Q 2015 is from previous consultant.

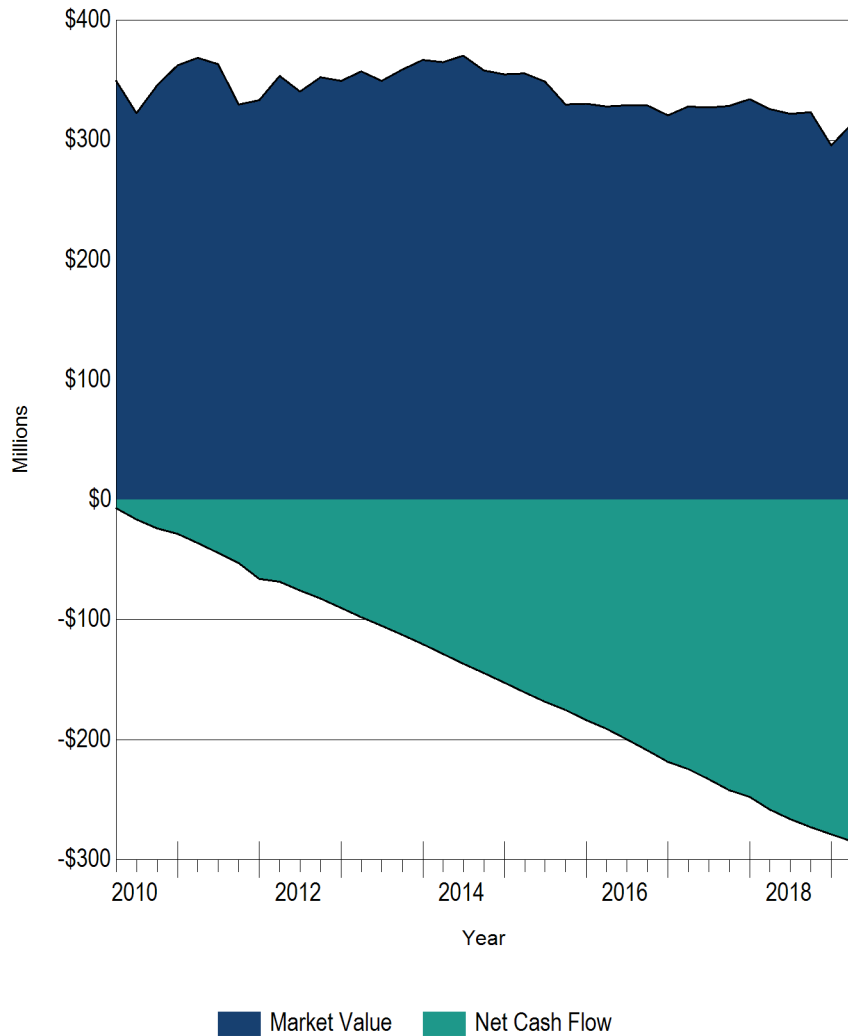
Total Fund
Executive Summary (Net of Fees)

Period Ending: March 31, 2019

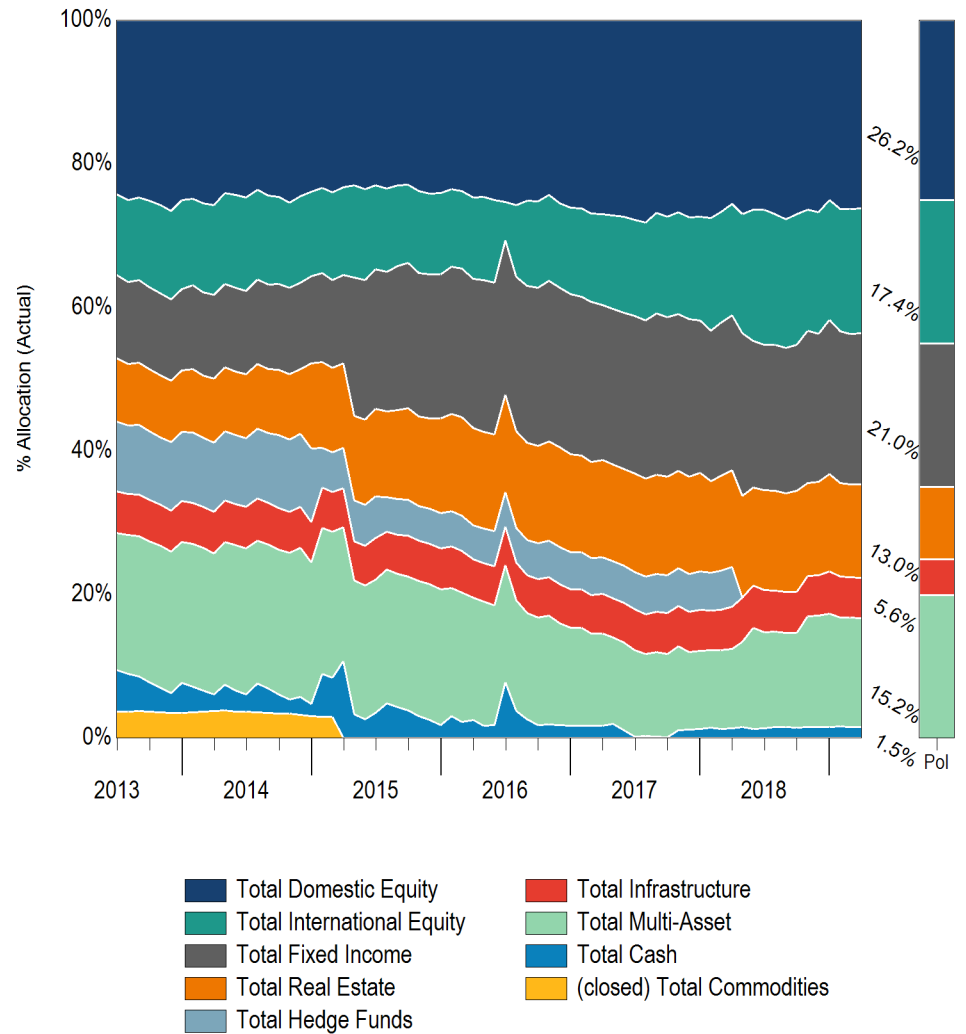
	Market Value	% of Portfolio	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs	2018	2017	2016	2015	2014
Real Estate	40,861,857	13.0										
ASB Allegiance Real Estate	26,262,996	8.4	2.0	7.4	5.4	--	--	7.1	3.9	4.5	--	--
NCREIF-ODCE			1.4	7.5	8.0	--	--	8.3	7.6	8.8	--	--
Invesco Real Estate II	43,002	0.0	-0.1	-5.9	-1.4	2.4	4.0	-6.1	4.8	1.2	6.1	11.5
NCREIF-ODCE			1.4	7.5	8.0	10.2	8.7	8.3	7.6	8.8	15.0	12.5
JPMorgan Special Situation Property	14,555,859	4.6	1.6	8.9	8.3	--	--	9.6	7.9	8.7	18.9	--
NCREIF-ODCE			1.4	7.5	8.0	--	--	8.3	7.6	8.8	15.0	--
Infrastructure	17,549,505	5.6										
IFM Global Infrastructure (US) LP	9,321,781	3.0	2.6	9.1	14.1	9.7	9.5	15.8	21.1	6.1	5.2	1.3
CPI + 5%			2.4	6.9	7.3	6.5	6.9	7.0	7.2	7.2	5.8	5.8
JPMorgan IIF ERISA LP	8,227,723	2.6	1.1	2.4	5.9	4.3	--	4.2	14.2	1.2	3.4	-1.6
CPI + 5%			2.4	6.9	7.3	6.5	--	7.0	7.2	7.2	5.8	5.8
Multi-Asset	47,560,016	15.2										
Invesco Balanced-Risk Allocation	47,560,016	15.2	8.5	3.5	7.3	5.0	--	-5.8	10.5	12.2	-3.5	6.3
60% MSCI ACWI Net/40% FTSE WGBI			7.9	1.2	6.8	4.2	--	-5.8	17.1	5.5	-2.6	2.3
FTSE 3-Month T-bill +6%			2.1	8.2	7.2	6.8	--	8.0	6.9	6.3	6.0	6.0
eV Global Balanced Net Rank			62	57	54	57	--	22	99	19	74	37
Cash and Equivalents	4,632,539	1.5										
US Bank Checking Account	2,058,197	0.7										
US Bank Clearing Account	2,574,342	0.8										

Policy Index: 45% MSCI World, 25% BBcBarc Aggregate, 10% NCREIF-ODCE, 20%(60% MSCI ACWI Net/40% CITI WGBI). Target Asset Allocation Policy Index: 25% Dow Jones US Total Stock, 20% MSCI ACWI ex US IMI, 20% BBcBarc Aggregate, 10% NCREIF-ODCE, 5% CPI + 5%, and 20% (60% MSCI ACWI Net/40% CITI WGBI). Loomis Sayles Core Plus replaced Loomis Sayles Full Discretion 3/21/2017. Parametric liquidated 4/21/2017. Mellon Dynamic liquidated 5/5/2017. Grosvenor Institutional liquidated 4/30/2018. Data prior to 3Q 2015 is from previous consultant.

Market Value History



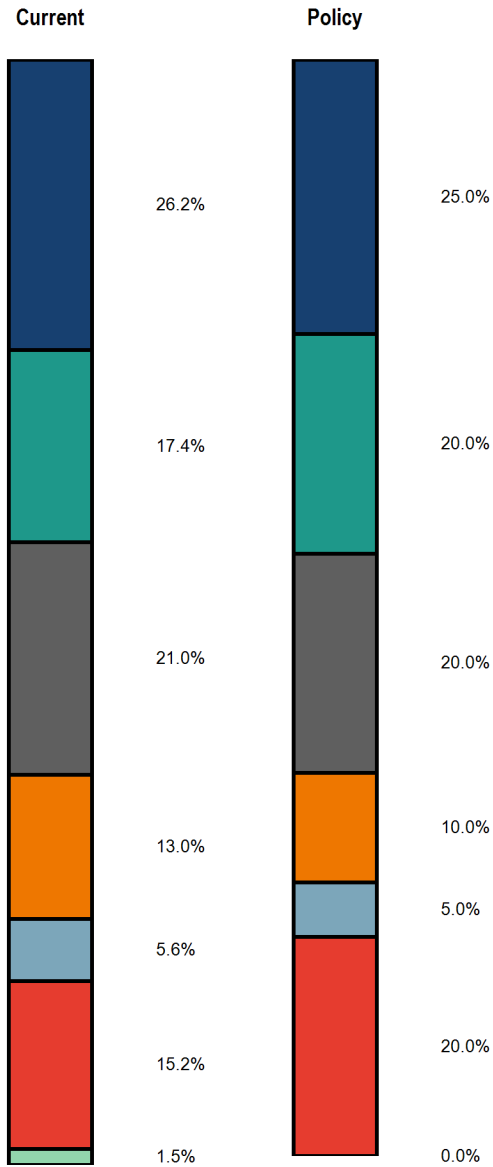
Asset Allocation History



Net cash flow is cumulative.

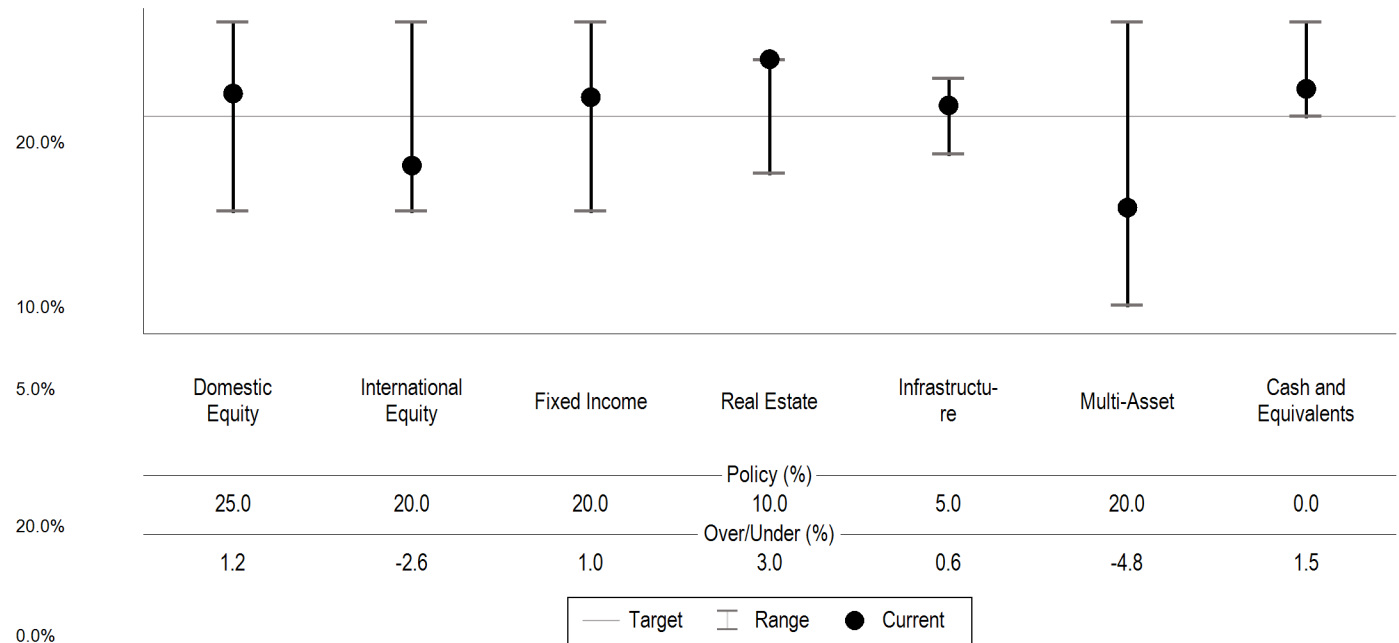
Total Fund
Asset Allocation vs. Policy

Period Ending: March 31, 2019



	Current	%	Policy	Difference	Policy Range	Within Range
Domestic Equity	\$82,145,519	26.2%	25.0%	\$3,853,605	20.0% - 30.0%	Yes
International Equity	\$54,541,161	17.4%	20.0%	-\$8,092,370	15.0% - 25.0%	Yes
Fixed Income	\$65,877,059	21.0%	20.0%	\$3,243,528	15.0% - 25.0%	Yes
Real Estate	\$40,861,857	13.0%	10.0%	\$9,545,092	7.0% - 13.0%	No
Infrastructure	\$17,549,505	5.6%	5.0%	\$1,891,122	3.0% - 7.0%	Yes
Multi-Asset	\$47,560,016	15.2%	20.0%	-\$15,073,515	10.0% - 25.0%	Yes
Cash and Equivalents	\$4,632,539	1.5%	0.0%	\$4,632,539	0.0% - 5.0%	Yes
Total	\$313,167,656	100.0%	100.0%			

Actual vs. Target



Total Fund
Investment Fund Fee Analysis

Period Ending: March 31, 2019

Name	Asset Class	Fee Schedule	Market Value	% of Portfolio	Estimated Fee Value	Estimated Fee
BlackRock Equity Index NL	Domestic Equity	0.03% of Assets	\$33,210,120	10.6%	\$9,963	0.03%
INTECH US Adaptive Volatility	Domestic Equity	0.40% of Assets	\$31,543,511	10.1%	\$126,174	0.40%
PanAgora US Small Cap Core Stock Selector	Domestic Equity	0.85% of Assets	\$17,391,889	5.6%	\$147,831	0.85%
WCM Focused International Growth Fund, L.P.	International Equity	0.75% of Assets	\$29,791,116	9.5%	\$223,433	0.75%
Causeway International Value Ins	International Equity	0.90% of Assets	\$18,790,140	6.0%	\$169,111	0.90%
Brandes International Small Cap Equity	International Equity	0.90% of Assets	\$5,959,905	1.9%	\$53,639	0.90%
Loomis Sayles Core Plus	Fixed Income	0.35% of First 20.0 Mil, 0.25% Thereafter	\$65,877,059	21.0%	\$184,693	0.28%
ASB Allegiance Real Estate	Real Estate	1.25% of First 5.0 Mil, 1.00% of Next 10.0 Mil, 0.90% of Next 60.0 Mil, 0.75% Thereafter	\$26,262,996	8.4%	\$263,867	1.00%
Invesco Real Estate II	Real Estate	0.67% of Assets	\$43,002	0.0%	\$288	0.67%
JPMorgan Special Situation Property	Real Estate	1.60% of Assets	\$14,555,859	4.6%	\$232,894	1.60%
IFM Global Infrastructure (US) LP	Infrastructure	0.77% of Assets	\$9,321,781	3.0%	\$71,778	0.77%
JPMorgan IIF ERISA LP	Infrastructure	1.25% of First 50.0 Mil, 1.15% of Next 50.0 Mil, 1.05% Thereafter	\$8,227,723	2.6%	\$102,847	1.25%
Invesco Balanced-Risk Allocation	Multi-Asset	0.38% of First 250.0 Mil, 0.35% of Next 500.0 Mil, 0.33% of Next 250.0 Mil, 0.30% Thereafter	\$47,560,016	15.2%	\$178,350	0.38%
US Bank Checking Account	Cash and Equivalents		\$2,058,197	0.7%		
US Bank Clearing Account	Cash and Equivalents		\$2,574,342	0.8%		
Total			\$313,167,656	100.0%	\$1,764,868	0.56%

Total Fund Watch List (Net of Fees)

Period Ending: March 31, 2019

Name	Allocation Group	Status	Rule 1	Rule 2	Rule 3	Rule 4	Rule 5	Rule 6
BlackRock Equity Index NL	Domestic Equity	No Issues	--	--	--	--	--	✓
INTECH US Adaptive Volatility	Domestic Equity	No Issues	--	--	--	--	--	--
PanAgora US Small Cap Core Stock Selector	Domestic Equity	No Issues	R	R	--	--	--	--
WCM Focused International Growth Fund, L.P.	International Equity	No Issues	--	--	--	--	--	--
Causeway International Value Ins	International Equity	No Issues	--	--	--	--	--	--
Brandes International Small Cap Equity	International Equity	No Issues	--	--	--	--	R	--
Loomis Sayles Core Plus	Fixed Income	No Issues	--	--	--	--	--	--
ASB Allegiance Real Estate	Real Estate	No Issues	R	--	--	--	--	--
Invesco Real Estate II	Real Estate	No Issues	R	--	R	--	--	--
JPMorgan Special Situation Property	Real Estate	No Issues	✓	--	--	--	--	--
IFM Global Infrastructure (US) LP	Infrastructure	No Issues	✓	--	✓	--	--	--
JPMorgan IIF ERISA LP	Infrastructure	No Issues	R	--	R	--	--	--
Invesco Balanced-Risk Allocation	Multi-Asset	No Issues	✓	R	✓	R	--	--

Rule 1 - Manager has underperformed the benchmark index for the three year period.

Rule 2 - Manager has underperformed the 50th percentile in the appropriate style universe for the three year period.

Rule 3 - Manager has underperformed the benchmark index for the five year period.

Rule 4 - Manager has underperformed the 50th percentile in the appropriate style universe for the five year period.

Rule 5 - Fund experiences non-performance related issues including personnel turnover, changes in investment philosophy or drift, excessive asset growth, change in ownership and any other reason that raises concern.

Rule 6 - Index Fund Tracking Error exceeds 0.25% of the appropriate benchmark over the one year period.

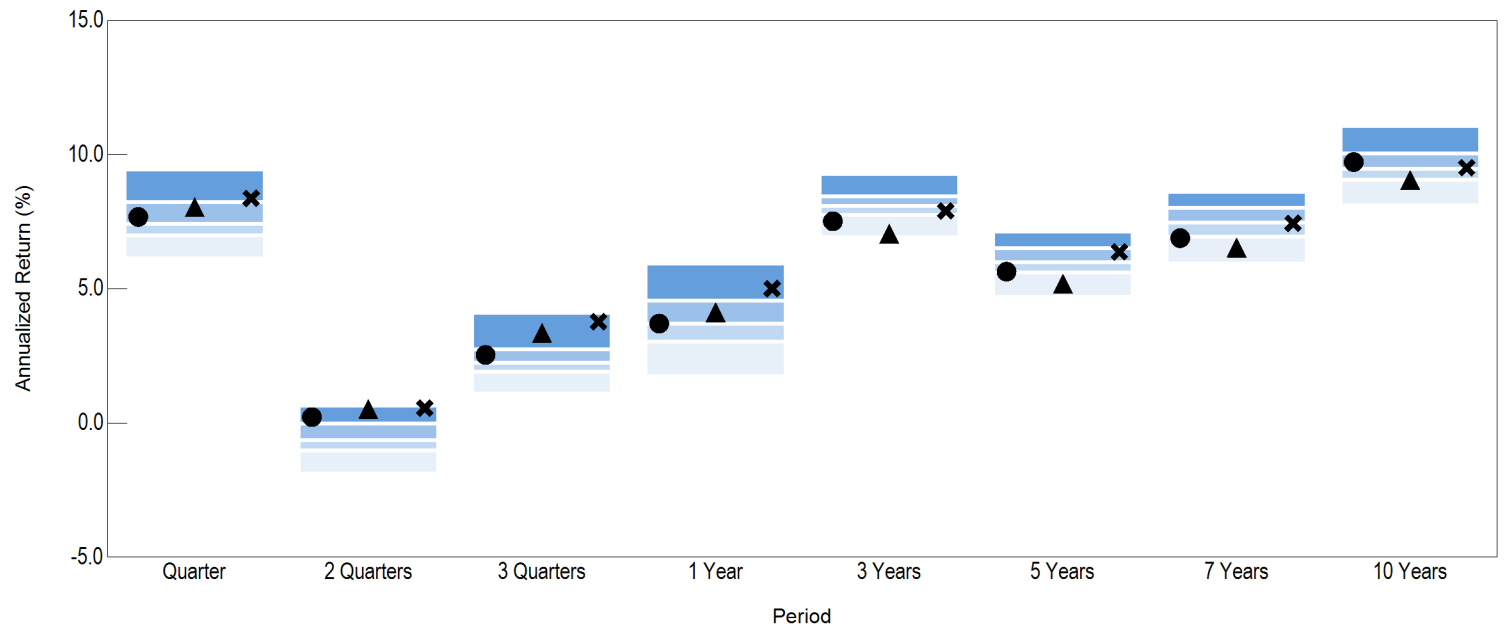
Brandes: Firm founder and significant equity holder Charles Brandes stepped down early 2018 in order to focus on personal matters.

Total Fund

Peer Universe Comparison: Cumulative Performance (Net of Fees)

Period Ending: March 31, 2019

Total Fund Cumulative Performance vs. InvestorForce Tft-Hrtly DB \$250mm-\$1B Net



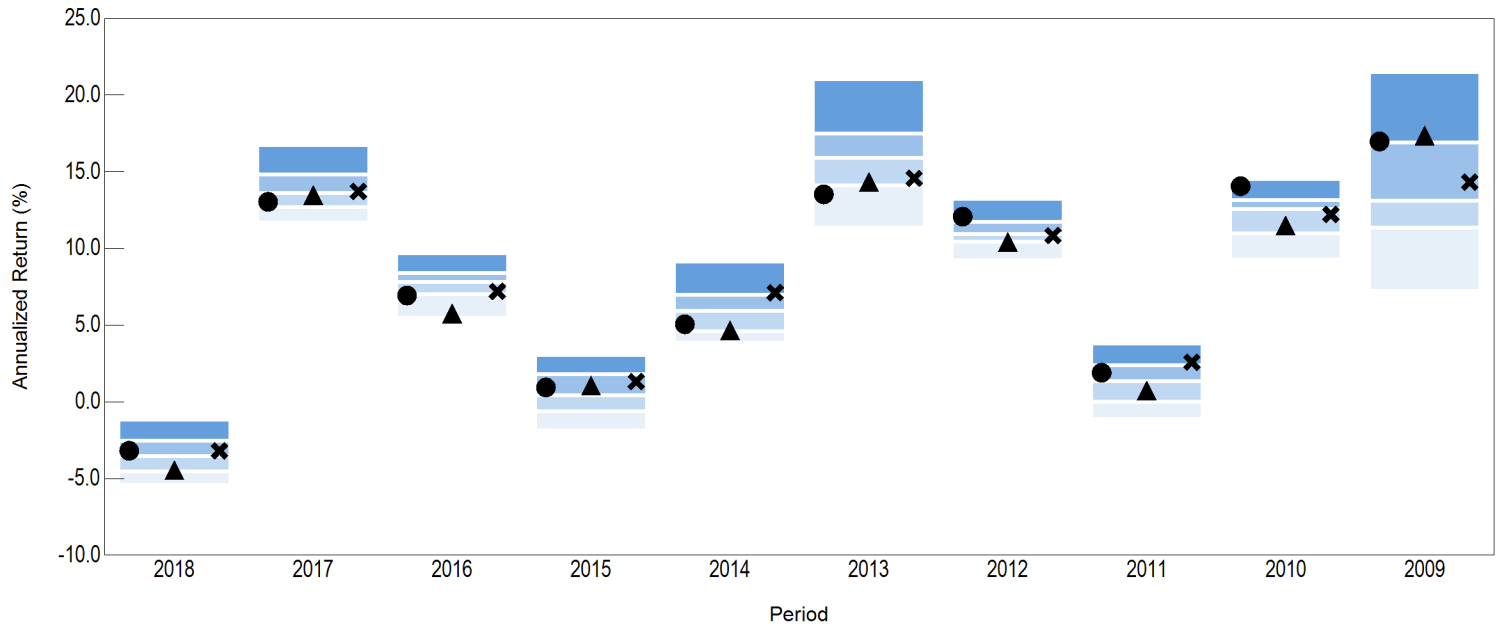
	Return (Rank)															
	Quarter		2 Quarters		3 Quarters		1 Year		3 Years		5 Years		7 Years		10 Years	
5th Percentile	9.4	0.6	4.1	5.9	9.3	7.1	8.6	11.1								
25th Percentile	8.3	0.0	2.8	4.6	8.4	6.5	8.0	10.1								
Median	7.4	-0.6	2.3	3.7	8.1	6.0	7.5	9.5								
75th Percentile	7.0	-1.0	1.9	3.0	7.8	5.6	6.9	9.1								
95th Percentile	6.1	-1.9	1.1	1.8	6.9	4.7	6.0	8.1								
# of Portfolios	91	90	89	89	83	82	80	71								
● Total Fund	7.7	(41)	0.2	(19)	2.5	(37)	3.7	(51)	7.5	(83)	5.6	(73)	6.9	(77)	9.7	(40)
▲ Total Fund Policy Index	8.0	(29)	0.5	(8)	3.4	(17)	4.1	(33)	7.1	(92)	5.2	(88)	6.5	(88)	9.0	(77)
✕ Target Asset Allocation Policy Index	8.4	(20)	0.6	(8)	3.8	(8)	5.0	(14)	7.9	(63)	6.4	(30)	7.4	(55)	9.5	(50)

Total Fund

Peer Universe Comparison: Consecutive Periods (Net of Fees)

Period Ending: March 31, 2019

Total Fund Consecutive Periods vs. InvestorForce Tft-Hrtly DB \$250mm-\$1B Net



	Return (Rank)									
	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
5th Percentile	-1.2	16.7	9.7	3.0	9.1	21.0	13.2	3.8	14.5	21.5
25th Percentile	-2.5	14.9	8.4	1.8	7.0	17.5	11.8	2.4	13.2	16.9
Median	-3.5	13.6	7.8	0.4	6.0	15.9	11.0	1.4	12.6	13.1
75th Percentile	-4.5	12.7	7.0	-0.6	4.6	14.2	10.4	0.0	11.0	11.4
95th Percentile	-5.4	11.7	5.5	-1.9	3.9	11.4	9.3	-1.1	9.3	7.2
# of Portfolios	84	69	56	58	55	49	37	34	32	31
● Total Fund	-3.2 (45)	13.0 (64)	6.9 (80)	0.9 (38)	5.1 (70)	13.5 (79)	12.1 (20)	1.9 (40)	14.1 (10)	17.0 (25)
▲ Total Fund Policy Index	-4.5 (73)	13.5 (51)	5.8 (93)	1.1 (37)	4.7 (75)	14.3 (70)	10.4 (79)	0.7 (60)	11.5 (66)	17.4 (24)
✕ Target Asset Allocation Policy Index	-3.2 (45)	13.7 (46)	7.2 (69)	1.3 (36)	7.1 (21)	14.6 (66)	10.8 (63)	2.6 (20)	12.2 (58)	14.3 (44)

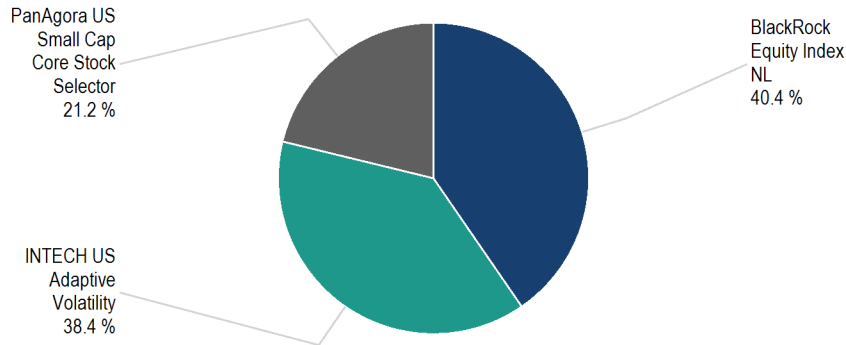
Domestic Equity

Total Domestic Equity Performance Summary (Net of Fees)

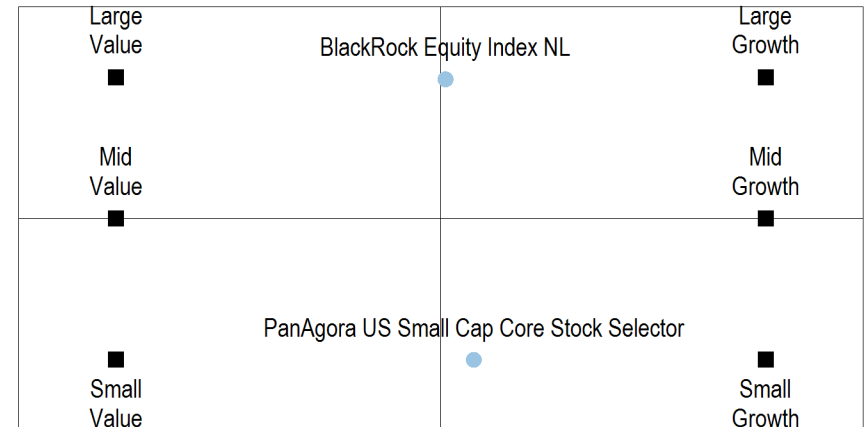
Period Ending: March 31, 2019

	Market Value	% of Portfolio	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs	2018	2017	2016	2015	2014
Total Domestic Equity	82,145,519	100.0	13.6	5.8	11.8	9.6	15.6	-5.9	19.4	11.5	0.7	12.5
<i>Dow Jones U.S. Total Stock Market</i>			14.0	8.7	13.5	10.3	16.0	-5.3	21.2	12.6	0.4	12.5
<i>InvestorForce Tft-Hrtly DB US Eq Net Rank</i>			70	71	79	39	28	34	71	61	30	10
Domestic Equity	82,145,519	100.0										
BlackRock Equity Index NL	33,210,120	40.4	13.7	9.5	13.5	10.9	--	-4.4	21.8	11.9	1.3	13.8
<i>S&P 500</i>			13.6	9.5	13.5	10.9	--	-4.4	21.8	12.0	1.4	13.7
<i>eV US Large Cap Core Equity Net Rank</i>			34	28	22	17	--	32	46	21	37	33
INTECH US Adaptive Volatility	31,543,511	38.4	13.2	--	--	--	--	--	--	--	--	--
<i>Russell 1000</i>			14.0	--	--	--	--	--	--	--	--	--
<i>eV US Large Cap Core Equity Net Rank</i>			45	--	--	--	--	--	--	--	--	--
PanAgora US Small Cap Core Stock Selector	17,391,889	21.2	14.3	0.5	11.4	--	--	-9.2	10.8	20.3	--	--
<i>Russell 2000</i>			14.6	2.0	12.9	--	--	-11.0	14.6	21.3	--	--
<i>eV US Small Cap Core Equity Net Rank</i>			39	55	56	--	--	36	83	41	--	--

**Total Domestic Equity
Current Allocation**

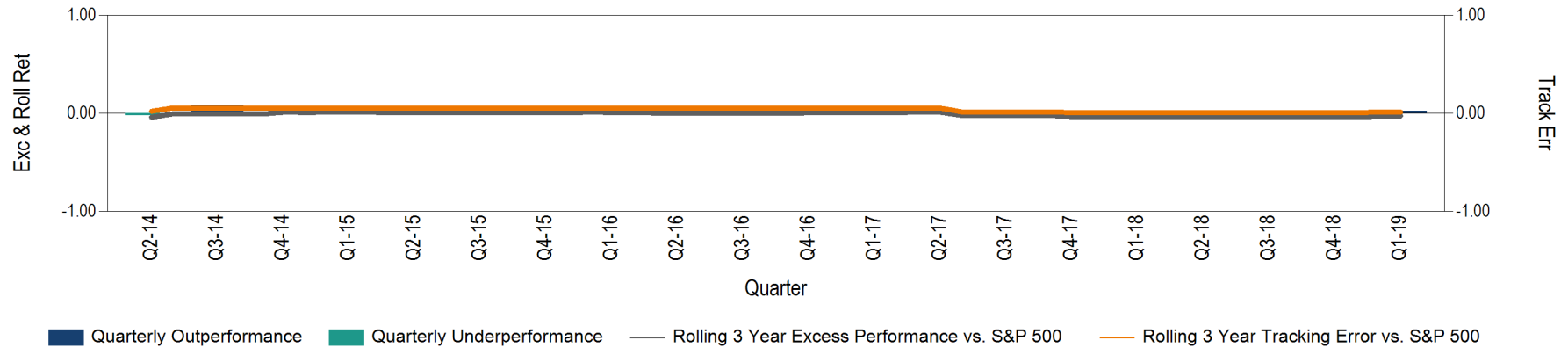


**Domestic Effective Style Map
3 Years**

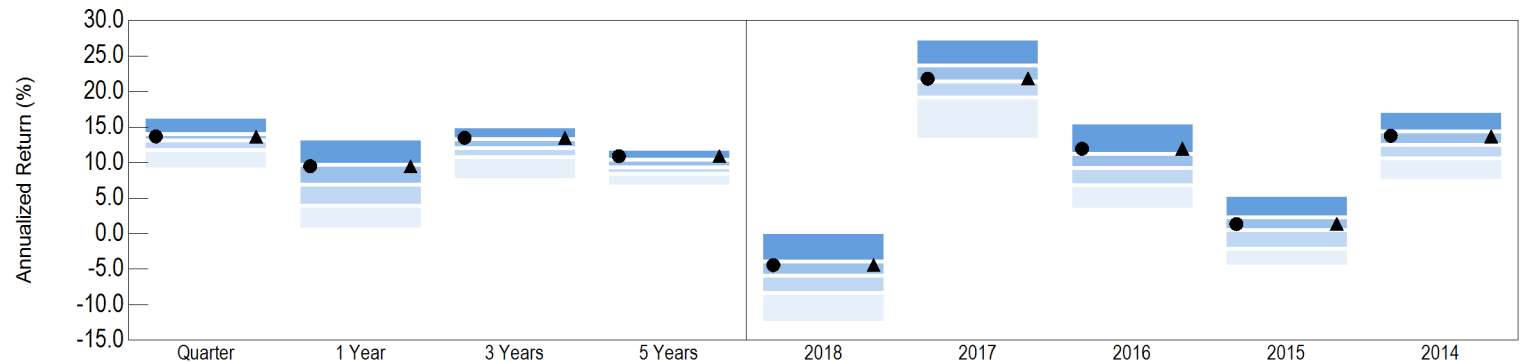


Style map requires 3 years of returns. INTECH US Adaptive Volatility replaced INTECH US Managed Volatility on 8/3/2018.

Rolling Annualized Excess Performance and Tracking Error



BlackRock Equity Index NL vs. eV US Large Cap Core Equity Net Universe

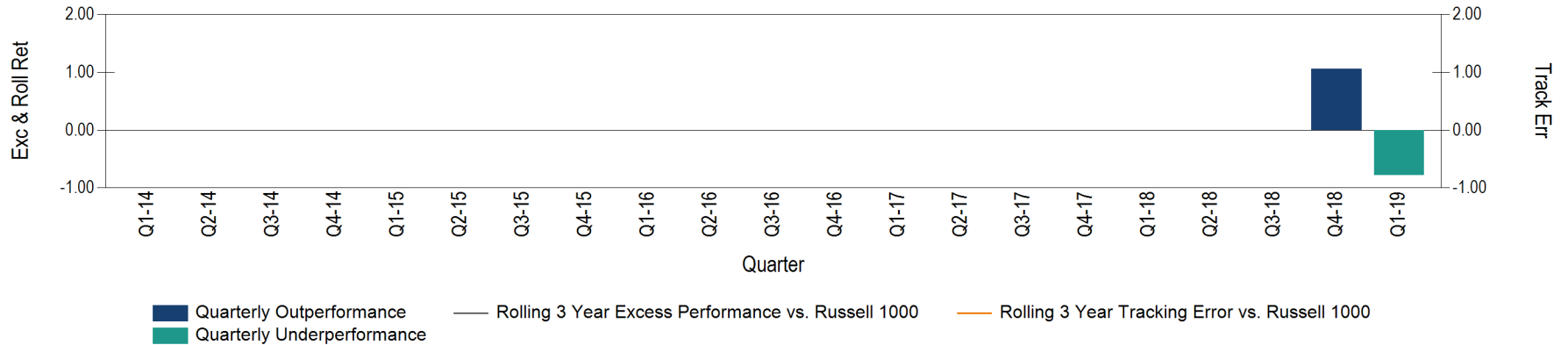


	Quarter	1 Year	3 Years	5 Years	2018	2017	2016	2015	2014
5th Percentile	16.4	13.3	15.1	11.9	0.1	27.4	15.6	5.4	17.2
25th Percentile	14.1	9.7	13.3	10.5	-3.8	23.7	11.3	2.4	14.4
Median	13.1	6.9	12.1	9.4	-5.8	21.4	9.3	0.6	12.5
75th Percentile	11.8	4.0	10.9	8.5	-8.3	19.2	6.9	-2.0	10.6
95th Percentile	9.1	0.6	7.6	6.7	-12.5	13.2	3.4	-4.6	7.5
# of Portfolios	197	192	185	176	189	188	177	142	140
● BlackRock Equity Index NL	13.7 (34)	9.5 (28)	13.5 (22)	10.9 (17)	-4.4 (32)	21.8 (46)	11.9 (21)	1.3 (37)	13.8 (33)
▲ S&P 500	13.6 (35)	9.5 (28)	13.5 (21)	10.9 (17)	-4.4 (32)	21.8 (46)	12.0 (21)	1.4 (37)	13.7 (33)

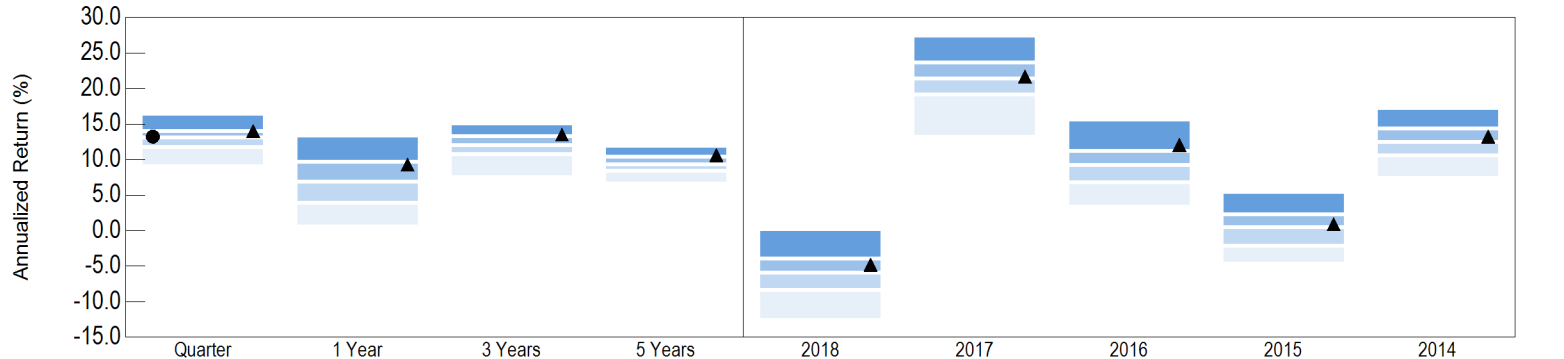
INTECH US Adaptive Volatility Performance Summary (Net of Fees)

Period Ending: March 31, 2019

Rolling Annualized Excess Performance and Tracking Error



INTECH US Adaptive Volatility vs. eV US Large Cap Core Equity Net Universe



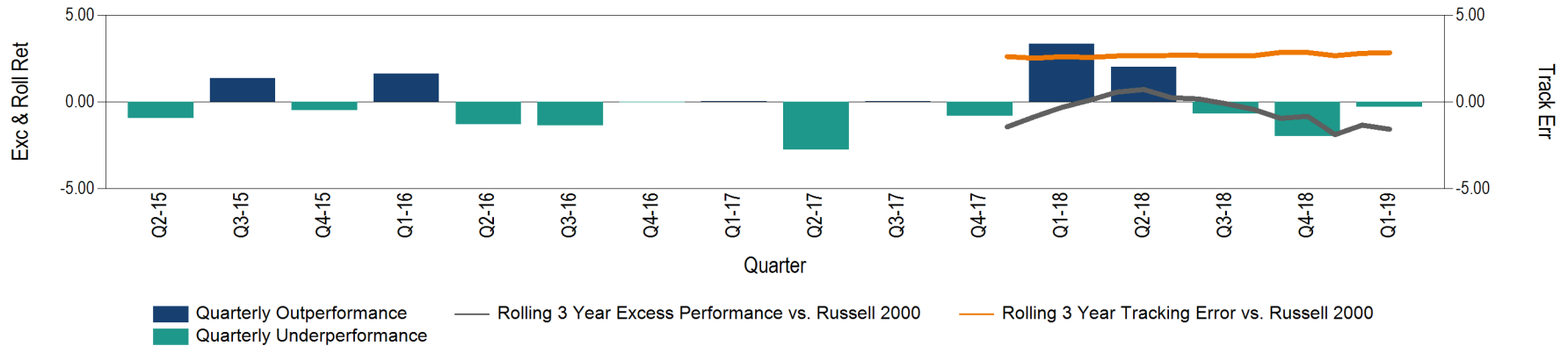
	Quarter Return (Rank)	1 Year	3 Years	5 Years	2018	2017	2016	2015	2014
5th Percentile	16.4	13.3	15.1	11.9	0.1	27.4	15.6	5.4	17.2
25th Percentile	14.1	9.7	13.3	10.5	-3.8	23.7	11.3	2.4	14.4
Median	13.1	6.9	12.1	9.4	-5.8	21.4	9.3	0.6	12.5
75th Percentile	11.8	4.0	10.9	8.5	-8.3	19.2	6.9	-2.0	10.6
95th Percentile	9.1	0.6	7.6	6.7	-12.5	13.2	3.4	-4.6	7.5
# of Portfolios	197	192	185	176	189	188	177	142	140
● INTECH US Adaptive Volatility	13.2 (45)	-- (-)	-- (-)	-- (-)	-- (-)	-- (-)	-- (-)	-- (-)	-- (-)
▲ Russell 1000	14.0 (27)	9.3 (30)	13.5 (20)	10.6 (20)	-4.8 (37)	21.7 (47)	12.1 (20)	0.9 (47)	13.2 (39)

INTECH US Adaptive Volatility replaced INTECH US Managed Volatility on 8/3/2018.

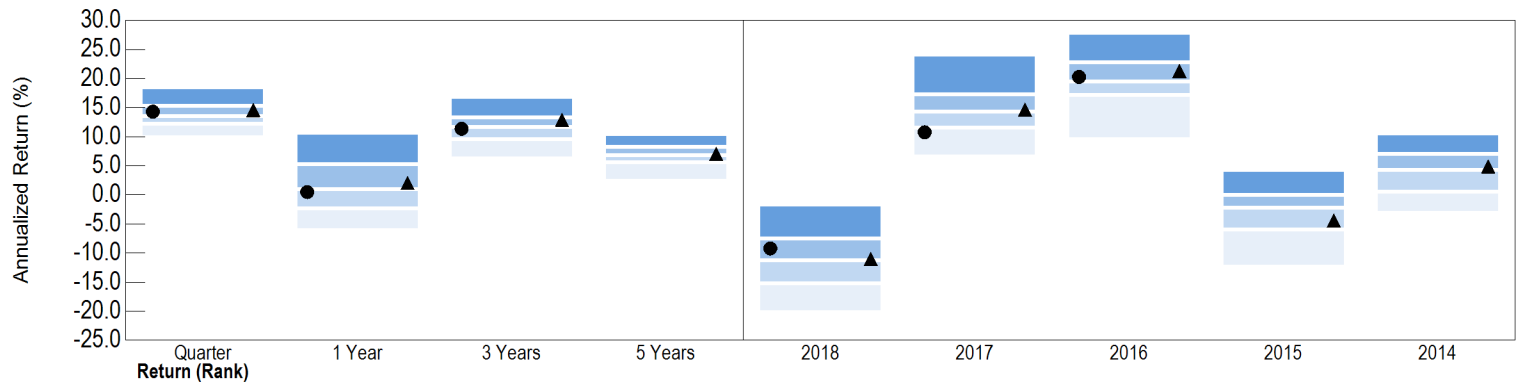
PanAgora US Small Cap Core Stock Selector Performance Summary (Net of Fees)

Period Ending: March 31, 2019

Rolling Annualized Excess Performance and Tracking Error



PanAgora US Small Cap Core Stock Selector vs. eV US Small Cap Core Equity Net Universe



	Quarter	1 Year	3 Years	5 Years	2018	2017	2016	2015	2014
5th Percentile	18.4	10.6	16.8	10.4	-1.8	24.1	27.8	4.2	10.5
25th Percentile	15.4	5.4	13.3	8.3	-7.5	17.3	22.8	0.1	7.2
Median	13.6	1.0	11.7	6.9	-11.1	14.4	19.5	-2.1	4.4
75th Percentile	12.3	-2.3	9.6	5.7	-15.1	11.6	17.3	-5.9	0.6
95th Percentile	10.0	-6.0	6.4	2.5	-20.1	6.7	9.7	-12.3	-3.1
# of Portfolios	113	112	104	102	113	106	99	88	77
● PanAgora US Small Cap Core Stock Selector	14.3 (39)	0.5 (55)	11.4 (56)	-- (--)	-9.2 (36)	10.8 (83)	20.3 (41)	-- (--)	-- (--)
▲ Russell 2000	14.6 (36)	2.0 (43)	12.9 (28)	7.1 (49)	-11.0 (50)	14.6 (46)	21.3 (34)	-4.4 (71)	4.9 (47)

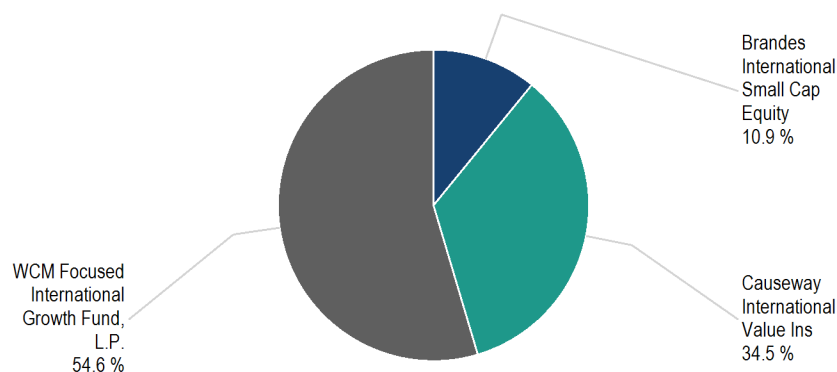
International Equity

Total International Equity Performance Summary (Net of Fees)

Period Ending: March 31, 2019

	Market Value	% of Portfolio	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs	2018	2017	2016	2015	2014
Total International Equity	54,541,161	100.0	11.0	-2.4	7.4	2.4	7.6	-13.0	26.6	0.9	-4.5	-3.8
<i>Total Public Int'l Equity Benchmark (MSCI ACWI ex US IMI)</i>			10.3	-5.0	7.9	2.7	8.5	-14.8	27.8	4.4	-4.6	-3.9
<i>InvestorForce Tft-Hrtly DB ex-US Eq Net Rank</i>			39	6	58	55	85	14	71	82	51	59
International Equity	54,541,161	100.0										
WCM Focused International Growth Fund, L.P.	29,791,116	54.6	13.0	3.3	--	--	--	-7.4	31.1	--	--	--
<i>MSCI ACWI ex USA</i>			10.3	-4.2	--	--	--	-14.2	27.2	--	--	--
<i>eV ACWI ex-US All Cap Growth Eq Net Rank</i>			65	2	--	--	--	1	71	--	--	--
Causeway International Value Ins	18,790,140	34.5	10.3	-6.7	--	--	--	-18.6	27.2	--	--	--
<i>MSCI EAFE</i>			10.0	-3.7	--	--	--	-13.8	25.0	--	--	--
<i>Foreign Large Value MStar MF Rank</i>			16	31	--	--	--	91	14	--	--	--
Brandes International Small Cap Equity	5,959,905	10.9	4.0	-12.7	--	--	--	-17.6	11.6	--	--	--
<i>S&P Developed Ex-U.S. SmallCap</i>			10.4	-9.2	--	--	--	-18.4	32.4	--	--	--
<i>eV ACWI ex-US Small Cap Equity Net Rank</i>			95	72	--	--	--	39	99	--	--	--

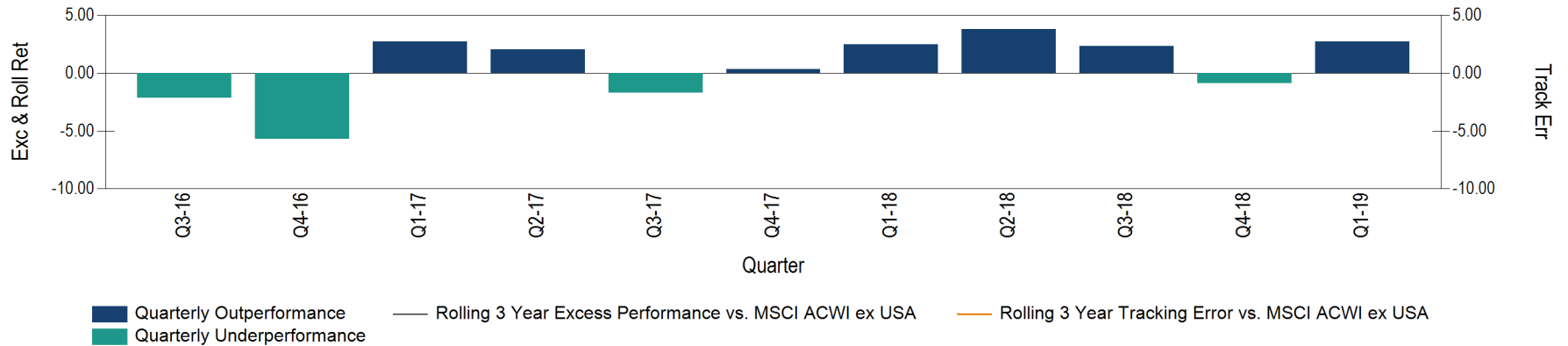
Total International Equity
Current Allocation



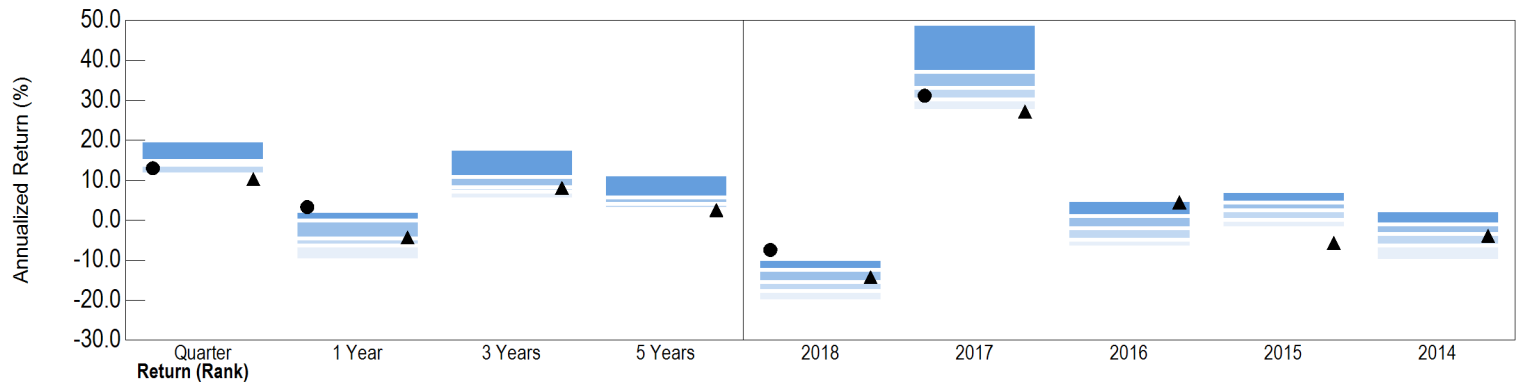
WCM Focused International Growth Fund, L.P.
Performance Summary (Net of Fees)

Period Ending: March 31, 2019

Rolling Annualized Excess Performance and Tracking Error

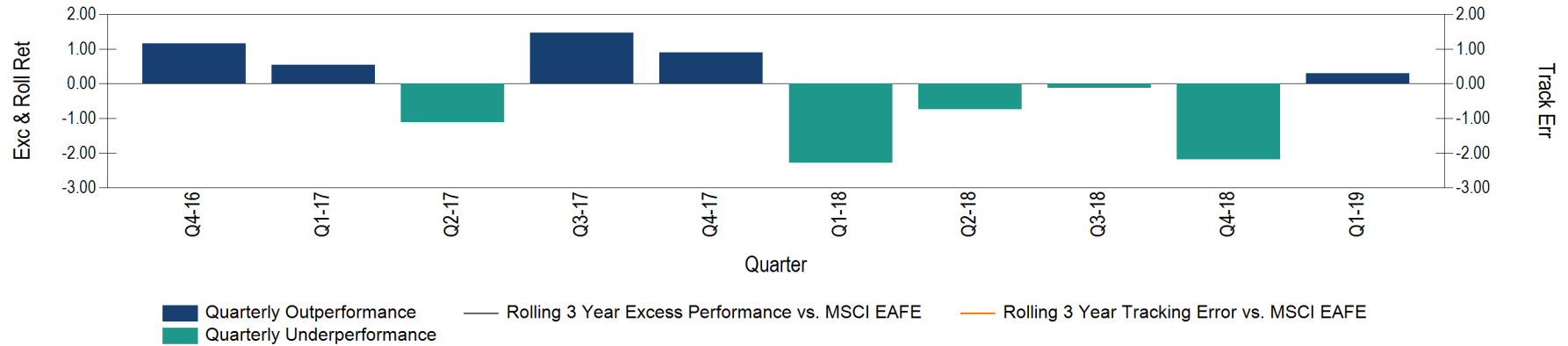


WCM Focused International Growth Fund, L.P. vs. eV ACWI ex-US All Cap Growth Eq Net Universe

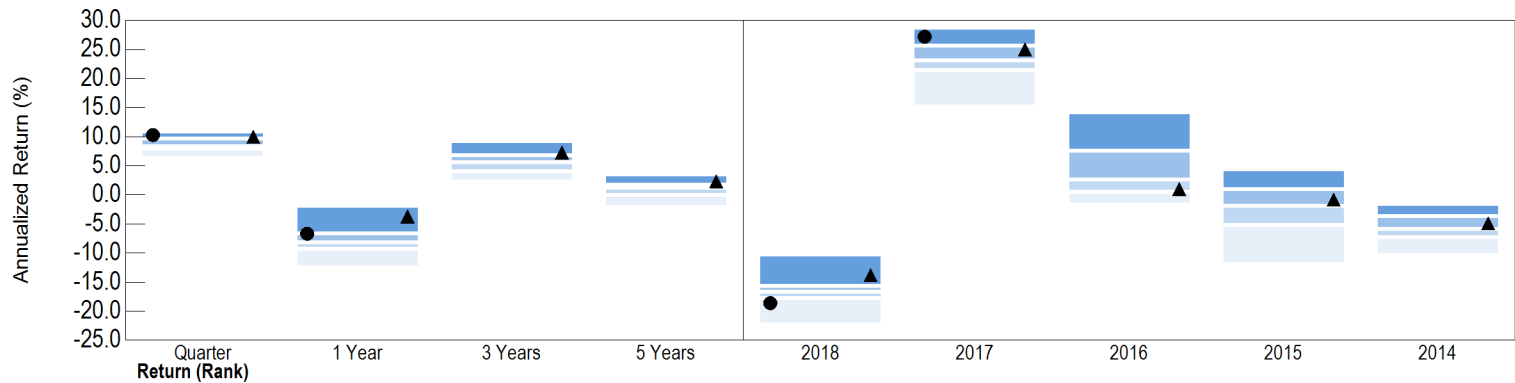


	Quarter	1 Year	3 Years	5 Years	2018	2017	2016	2015	2014
5th Percentile	19.9	2.3	17.7	11.4	-9.7	49.1	5.0	7.2	2.5
25th Percentile	14.9	0.0	10.9	5.9	-12.3	37.2	1.2	4.5	-0.9
Median	13.9	-4.4	8.4	4.2	-15.3	33.2	-2.0	2.5	-3.4
75th Percentile	11.6	-6.2	7.2	3.0	-17.5	30.4	-4.7	0.2	-6.3
95th Percentile	10.7	-9.9	5.4	2.2	-20.2	27.5	-6.6	-1.9	-10.1
# of Portfolios	26	26	26	25	26	27	25	18	16
● WCM Focused International Growth Fund, L.P.	13.0 (65)	3.3 (2)	-- (--)	-- (--)	-7.4 (1)	31.1 (71)	-- (--)	-- (--)	-- (--)
▲ MSCI ACWI ex USA	10.3 (99)	-4.2 (43)	8.1 (55)	2.6 (85)	-14.2 (49)	27.2 (96)	4.5 (8)	-5.7 (99)	-3.9 (57)

Rolling Annualized Excess Performance and Tracking Error



Causeway International Value Ins vs. Foreign Large Value MStar MF Universe

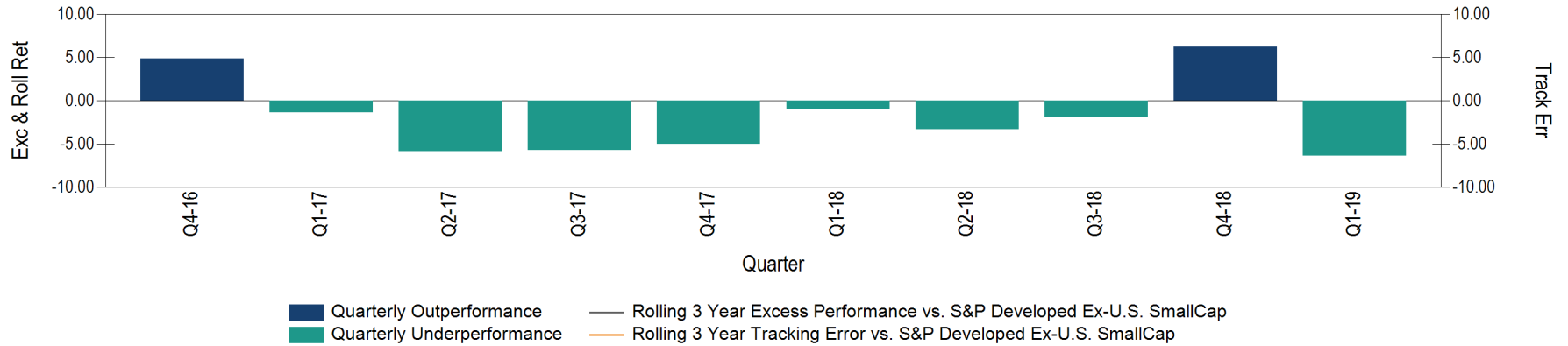


	Quarter	1 Year	3 Years	5 Years	2018	2017	2016	2015	2014
5th Percentile	10.9	-2.0	9.2	3.4	-10.4	28.7	14.1	4.4	-1.5
25th Percentile	9.7	-6.5	6.9	1.8	-15.6	25.7	7.7	1.1	-3.6
Median	8.4	-8.1	5.7	1.2	-16.5	23.2	2.7	-1.8	-5.7
75th Percentile	7.9	-9.2	4.1	0.0	-17.7	21.5	0.6	-5.1	-7.2
95th Percentile	6.5	-12.4	2.4	-2.0	-22.2	15.3	-1.6	-11.9	-10.3
# of Portfolios	78	74	73	65	74	74	78	76	73
● Causeway International Value Ins	10.3 (16)	-6.7 (31)	-- (--)	-- (--)	-18.6 (91)	27.2 (14)	-- (--)	-- (--)	-- (--)
▲ MSCI EAFE	10.0 (24)	-3.7 (12)	7.3 (24)	2.3 (23)	-13.8 (17)	25.0 (30)	1.0 (69)	-0.8 (43)	-4.9 (36)

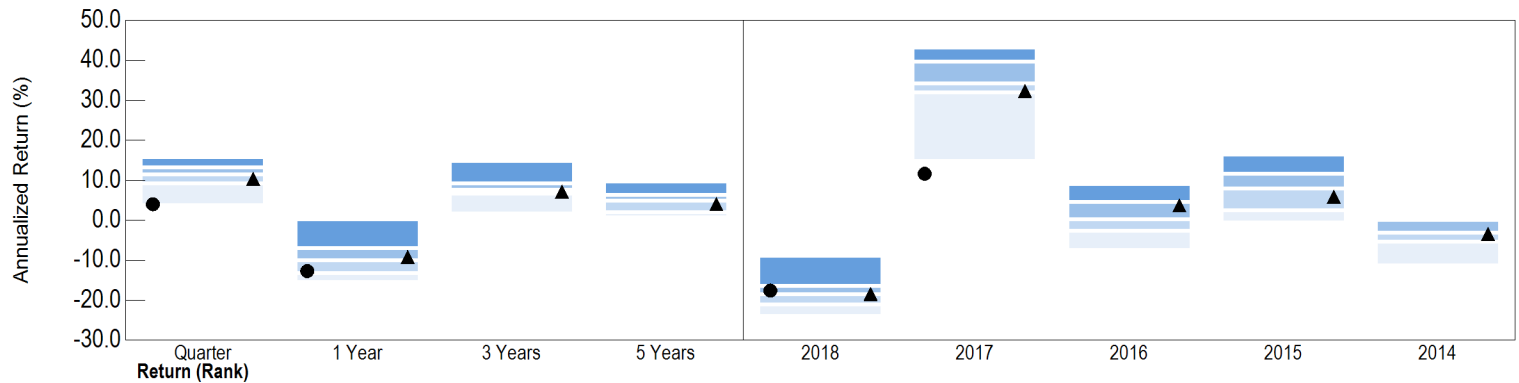
Brandes International Small Cap Equity Performance Summary (Net of Fees)

Period Ending: March 31, 2019

Rolling Annualized Excess Performance and Tracking Error



Brandes International Small Cap Equity vs. eV ACWI ex-US Small Cap Equity Net Universe



	Quarter	1 Year	3 Years	5 Years	2018	2017	2016	2015	2014
5th Percentile	15.8	0.2	14.7	9.6	-9.0	43.1	9.0	16.3	1.0
25th Percentile	13.3	-6.9	9.3	6.5	-16.3	39.7	4.7	11.8	0.3
Median	11.6	-9.8	7.7	5.0	-18.5	34.4	0.4	8.0	-3.0
75th Percentile	9.4	-13.1	6.7	2.2	-20.9	32.1	-2.6	2.6	-5.2
95th Percentile	3.8	-15.4	1.8	0.8	-23.8	14.9	-7.4	-0.5	-11.2
# of Portfolios	43	42	40	30	45	45	42	27	16
● Brandes International Small Cap Equity	4.0 (95)	-12.7 (72)	-- (--)	-- (--)	-17.6 (39)	11.6 (99)	-- (--)	-- (--)	-- (--)
▲ S&P Developed Ex-U.S. SmallCap	10.4 (69)	-9.2 (45)	7.2 (65)	4.1 (57)	-18.4 (50)	32.4 (68)	3.8 (29)	5.9 (57)	-3.4 (62)

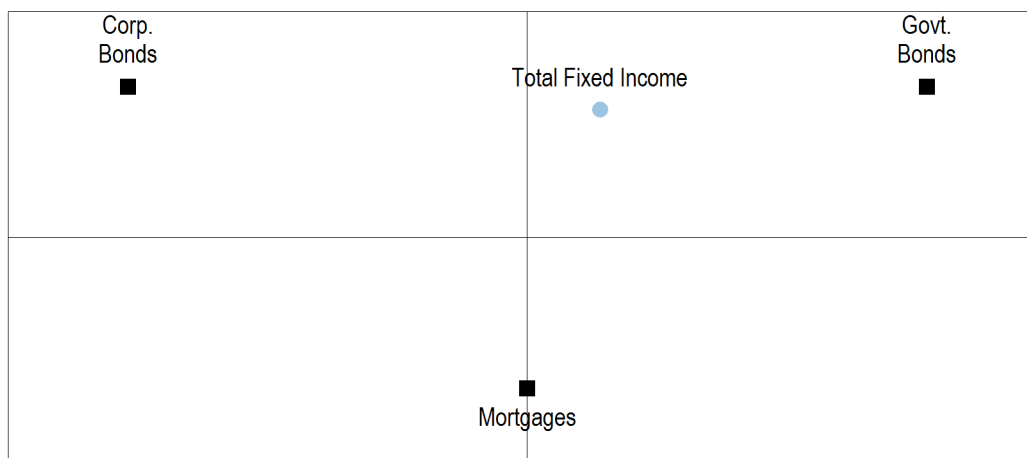
Domestic Fixed Income

Total Fixed Income Performance Summary (Net of Fees)

Period Ending: March 31, 2019

	Market Value	% of Portfolio	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs	2018	2017	2016	2015	2014
Total Fixed Income	65,877,059	100.0	3.5	3.7	4.4	3.3	7.1	-0.4	5.6	7.5	-2.1	5.9
<i>Total Fixed Income Benchmark (BBgBarc Aggregate)</i>			2.9	4.5	2.0	2.7	3.8	0.0	3.5	2.6	0.5	6.0
<i>InvestorForce Tft-Hrtly DB US Fix Inc Net Rank</i>			31	79	20	21	10	75	18	9	93	10
Fixed Income	65,877,059	100.0										
Loomis Sayles Core Plus	65,877,059	100.0	3.5	3.7	--	--	--	-0.4	--	--	--	--
<i>BBgBarc US Aggregate TR</i>			2.9	4.5	--	--	--	0.0	--	--	--	--
<i>eV US Core Plus Fixed Inc Net Rank</i>			60	88	--	--	--	40	--	--	--	--

Fixed Income Style Map
3 Years



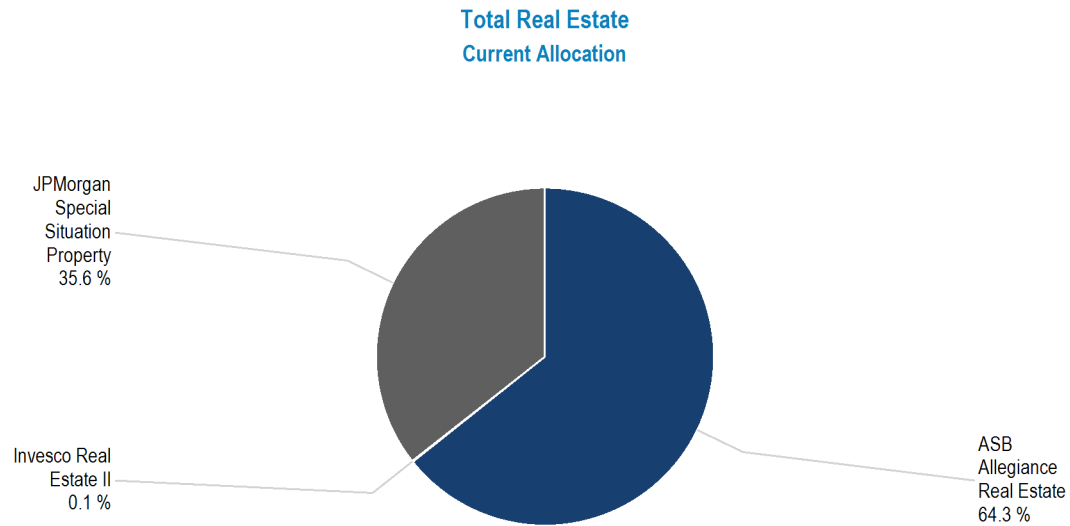
Loomis Sayles Core Plus replaced Loomis Sayles Full Discretion 3/21/2017.

Alternatives

Total Real Estate
Performance Summary (Net of Fees)

Period Ending: March 31, 2019

	Market Value	% of Portfolio	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs	2018	2017	2016	2015	2014
Total Real Estate	40,861,857	100.0	1.9	7.8	6.1	8.9	8.0	7.8	5.0	5.4	16.9	11.2
<i>NCREIF-ODCE</i>			1.4	7.5	8.0	10.2	8.7	8.3	7.6	8.8	15.0	12.5
Real Estate	40,861,857	100.0										
ASB Allegiance Real Estate	26,262,996	64.3	2.0	7.4	5.4	--	--	7.1	3.9	4.5	--	--
<i>NCREIF-ODCE</i>			1.4	7.5	8.0	--	--	8.3	7.6	8.8	--	--
Invesco Real Estate II	43,002	0.1	-0.1	-5.9	-1.4	2.4	4.0	-6.1	4.8	1.2	6.1	11.5
<i>NCREIF-ODCE</i>			1.4	7.5	8.0	10.2	8.7	8.3	7.6	8.8	15.0	12.5
JPMorgan Special Situation Property	14,555,859	35.6	1.6	8.9	8.3	--	--	9.6	7.9	8.7	18.9	--
<i>NCREIF-ODCE</i>			1.4	7.5	8.0	--	--	8.3	7.6	8.8	15.0	--

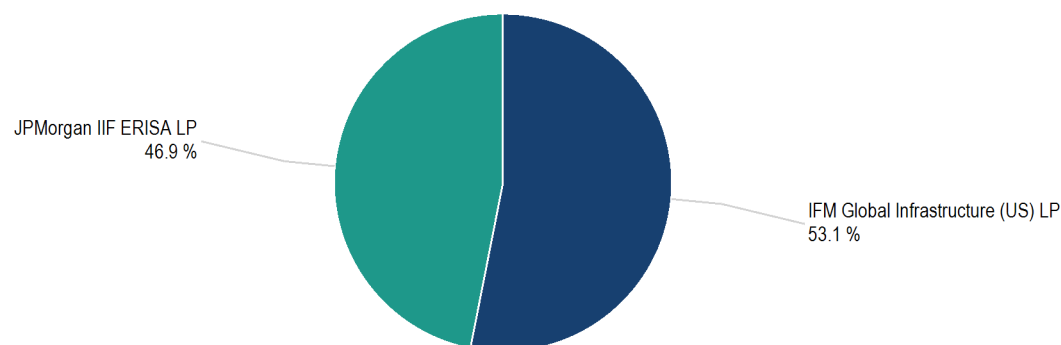


Total Infrastructure Performance Summary (Net of Fees)

Period Ending: March 31, 2019

	Market Value	% of Portfolio	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs	2018	2017	2016	2015	2014
Total Infrastructure	17,549,505	100.0	1.9	5.9	10.2	7.1	7.6	10.2	17.9	3.8	4.2	-0.3
<i>CPI + 5%</i>			2.4	6.9	7.3	6.5	6.9	7.0	7.2	7.2	5.8	5.8
Infrastructure	17,549,505	100.0										
IFM Global Infrastructure (US) LP	9,321,781	53.1	2.6	9.1	14.1	9.7	9.5	15.8	21.1	6.1	5.2	1.3
<i>CPI + 5%</i>			2.4	6.9	7.3	6.5	6.9	7.0	7.2	7.2	5.8	5.8
JPMorgan IIF ERISA LP	8,227,723	46.9	1.1	2.4	5.9	4.3	--	4.2	14.2	1.2	3.4	-1.6
<i>CPI + 5%</i>			2.4	6.9	7.3	6.5	--	7.0	7.2	7.2	5.8	5.8

Total Infrastructure
Current Allocation



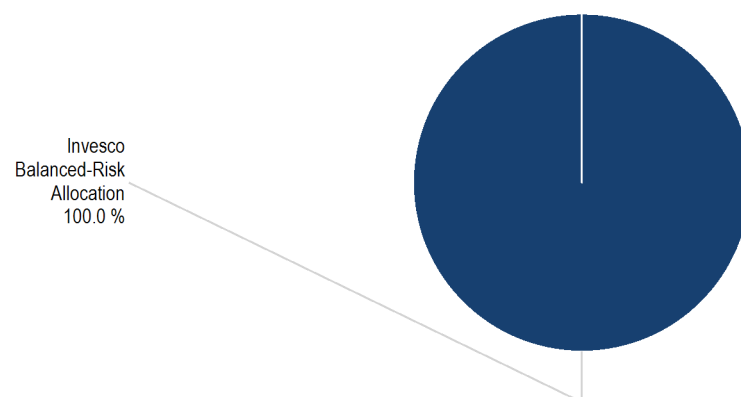
JP Morgan IIF ERISA market value as of 12/31/2018.

Total Multi-Asset Performance Summary (Net of Fees)

Period Ending: March 31, 2019

	Market Value	% of Portfolio	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs	2018	2017	2016	2015	2014
Total Multi-Asset	47,560,016	100.0	8.5	3.5	6.4	5.2	10.1	-5.8	10.6	7.4	-1.0	6.7
60% MSCI ACWI Net/40% FTSE WGBI			7.9	1.2	6.8	4.2	8.2	-5.8	17.1	5.5	-2.6	2.3
eV Global Balanced Net Rank			62	57	81	54	32	22	99	54	38	31
Multi-Asset	47,560,016	100.0										
Invesco Balanced-Risk Allocation	47,560,016	100.0	8.5	3.5	7.3	5.0	--	-5.8	10.5	12.2	-3.5	6.3
60% MSCI ACWI Net/40% FTSE WGBI			7.9	1.2	6.8	4.2	--	-5.8	17.1	5.5	-2.6	2.3
FTSE 3-Month T-bill +6%			2.1	8.2	7.2	6.8	--	8.0	6.9	6.3	6.0	6.0
eV Global Balanced Net Rank			62	57	54	57	--	22	99	19	74	37

Total Multi-Asset
Current Allocation

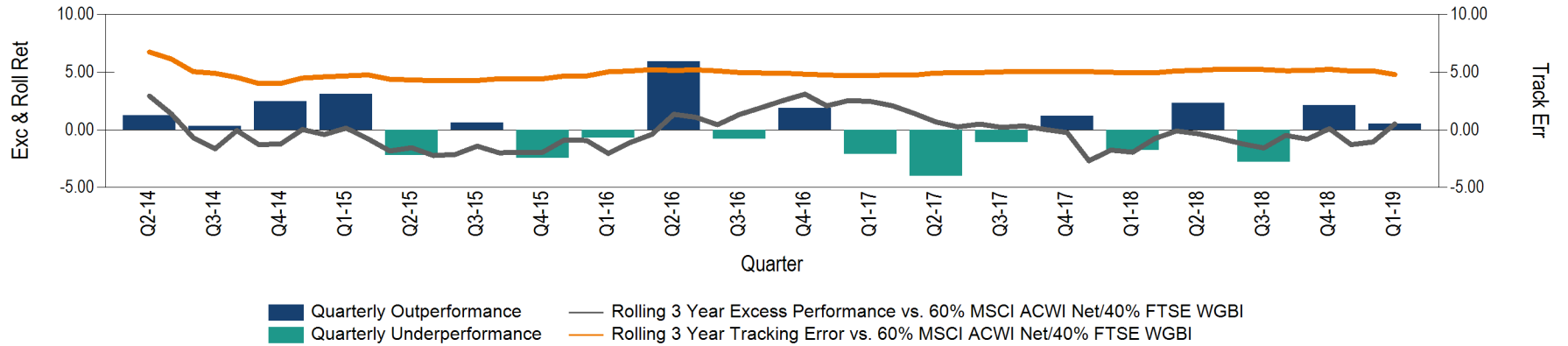


Mellon Dynamic liquidated 5/5/2017.

Invesco Balanced-Risk Allocation
Performance Summary (Net of Fees)

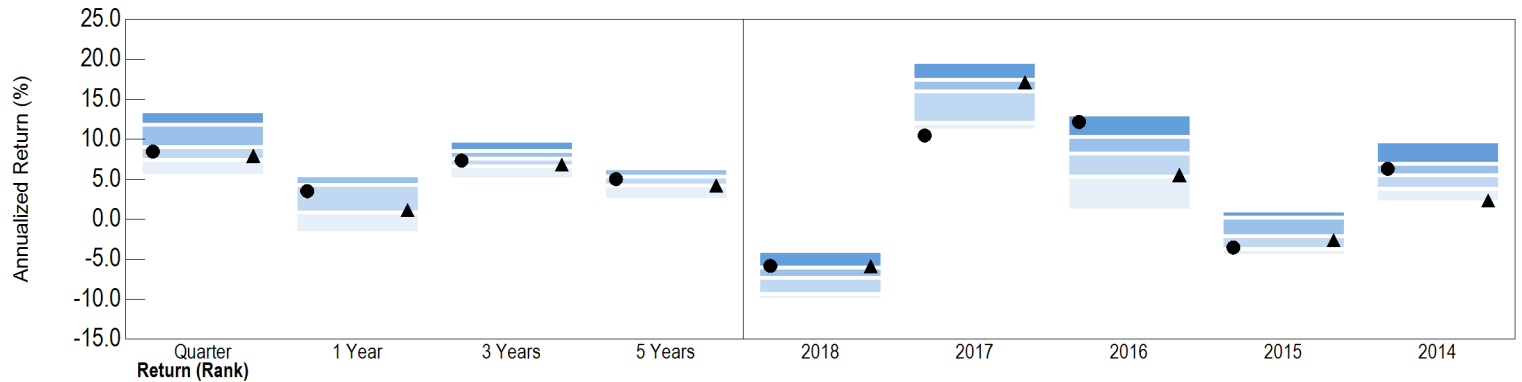
Period Ending: March 31, 2019

Rolling Annualized Excess Performance and Tracking Error



■ Quarterly Outperformance — Rolling 3 Year Excess Performance vs. 60% MSCI ACWI Net/40% FTSE WGBI
■ Quarterly Underperformance — Rolling 3 Year Tracking Error vs. 60% MSCI ACWI Net/40% FTSE WGBI

Invesco Balanced-Risk Allocation vs. eV Global Balanced Net Universe



	Quarter	1 Year	3 Years	5 Years	2018	2017	2016	2015	2014
5th Percentile	13.5	6.0	9.8	6.7	-4.0	19.6	13.1	1.1	9.7
25th Percentile	11.9	5.5	8.6	6.4	-6.0	17.5	10.3	0.2	7.0
Median	9.0	4.3	7.6	5.4	-7.3	16.1	8.2	-2.0	5.6
75th Percentile	7.4	0.9	6.7	4.3	-9.3	12.2	5.4	-3.7	3.9
95th Percentile	5.5	-1.7	5.1	2.5	-10.0	11.1	1.1	-4.6	2.2
# of Portfolios	10	10	10	10	10	9	13	13	14
● Invesco Balanced-Risk Allocation	8.5 (62)	3.5 (57)	7.3 (54)	5.0 (57)	-5.8 (22)	10.5 (99)	12.2 (19)	-3.5 (74)	6.3 (37)
▲ 60% MSCI ACWI Net/40% FTSE WGBI	7.9 (68)	1.2 (73)	6.8 (71)	4.2 (76)	-5.8 (22)	17.1 (29)	5.5 (68)	-2.6 (64)	2.3 (94)

Performance Return Calculations

Performance is calculated using Modified Dietz and for time periods with large cash flow (generally greater than 10% of portfolio value), Time Weighted Rates of Return (TWRR) methodologies. Monthly returns are geometrically linked and annualized for periods longer than one year.

Data Source

Verus is an independent third party consulting firm and calculates returns from best source book of record data. Returns calculated by Verus may deviate from those shown by the manager in part, but not limited to, differences in prices and market values reported by the custodian and manager, as well as significant cash flows into or out of an account. It is the responsibility of the manager and custodian to provide insight into the pricing methodologies and any difference in valuation.

Illiquid Alternatives

Due to the inability to receive final valuation prior to report production, closed end funds (including but are not limited to Real Estate, Hedge Funds, Private Equity, and Private Credit) performance is typically reported at a one-quarter lag. Valuation is reported at a one-quarter lag, adjusted for current quarter flow (cash flows are captured real time). Closed end fund performance is calculated using a time-weighted return methodology consistent with all portfolio and total fund performance calculations. For Private Markets, performance reports also include Verus-calculated multiples based on flows and valuations (e.g. DPI and TVPI) and manager-provided IRRs.

Manager Line Up

<u>Manager</u>	<u>Fund Incepted</u>	<u>Data Source</u>	<u>Manager</u>	<u>Fund Incepted</u>	<u>Data Source</u>
BlackRock Equity Index NL	4/30/2010	BlackRock	Invesco Real Estate II	6/30/2008	Invesco
INTECH US Adaptive Volatility	8/3/2018	INTECH	JPMorgan SSP	12/31/2014	JP Morgan
PanAgora US Small Cap	1/31/2015	PanAgora	Grosvenor Instl Partners LP	10/31/2009	Grosvenor
WCM Focused International Growth	7/1/2016	WCM	IFM Global Infrastructure (US) LP	1/31/2009	IFM
Causeway International Value	7/27/2016	US Bank	JPMorgan IIF ERISA LP	9/30/2010	JP Morgan
Brandes International Small Cap II	8/1/2016	Brandes	Invesco Balanced-Risk Allocation	1/31/2010	Invesco
Loomis Sayles Core Plus	3/21/2017	Loomis Sayles	US Bank Checking Account	N/A	US Bank
ASB Allegiance Real Estate	3/31/2015	ASB	US Bank Clearing Account	N/A	US Bank

Policy & Custom Index Composition

Policy Index: 45% MSCI World, 25% BBgBarc Aggregate, 10% NCREIF-ODCE, 20% (60%MSCI ACWI Net/40% CITI WGBI)

Target Asset Allocation Policy: 25% Dow Jones US Total Stock, 20% MSCI ACWI ex US IMI, 20% BBgBarc Aggregate, 10% NCREIF-ODCE, 5% CPI + 5%, and 20% (60%MSCI ACWI Net/40% CITI WGBI).

Glossary

Allocation Effect: An attribution effect that describes the amount attributable to the managers' asset allocation decisions, relative to the benchmark.

Alpha: The excess return of a portfolio after adjusting for market risk. This excess return is attributable to the selection skill of the portfolio manager. Alpha is calculated as: $\text{Portfolio Return} - [\text{Risk-free Rate} + \text{Portfolio Beta} \times (\text{Market Return} - \text{Risk-free Rate})]$.

Benchmark R-squared: Measures how well the Benchmark return series fits the manager's return series. The higher the Benchmark R-squared, the more appropriate the benchmark is for the manager.

Beta: A measure of systematic, or market risk; the part of risk in a portfolio or security that is attributable to general market movements. Beta is calculated by dividing the covariance of a security by the variance of the market.

Book-to-Market: The ratio of book value per share to market price per share. Growth managers typically have low book-to-market ratios while value managers typically have high book-to-market ratios.

Capture Ratio: A statistical measure of an investment manager's overall performance in up or down markets. The capture ratio is used to evaluate how well an investment manager performed relative to an index during periods when that index has risen (up market) or fallen (down market). The capture ratio is calculated by dividing the manager's returns by the returns of the index during the up/down market, and multiplying that factor by 100.

Correlation: A measure of the relative movement of returns of one security or asset class relative to another over time. A correlation of 1 means the returns of two securities move in lock step, a correlation of -1 means the returns of two securities move in the exact opposite direction over time. Correlation is used as a measure to help maximize the benefits of diversification when constructing an investment portfolio.

Excess Return: A measure of the difference in appreciation or depreciation in the price of an investment compared to its benchmark, over a given time period. This is usually expressed as a percentage and may be annualized over a number of years or represent a single period.

Information Ratio: A measure of a manager's ability to earn excess return without incurring additional risk. Information ratio is calculated as: excess return divided by tracking error.

Interaction Effect: An attribution effect that describes the portion of active management that is contributable to the cross interaction between the allocation and selection effect. This can also be explained as an effect that cannot be easily traced to a source.

Portfolio Turnover: The percentage of a portfolio that is sold and replaced (turned over) during a given time period. Low portfolio turnover is indicative of a buy and hold strategy while high portfolio turnover implies a more active form of management.

Price-to-Earnings Ratio (P/E): Also called the earnings multiplier, it is calculated by dividing the price of a company's stock into earnings per share. Growth managers typically hold stocks with high price-to-earnings ratios whereas value managers hold stocks with low price-to-earnings ratios.

R-Squared: Also called the coefficient of determination, it measures the amount of variation in one variable explained by variations in another, i.e., the goodness of fit to a benchmark. In the case of investments, the term is used to explain the amount of variation in a security or portfolio explained by movements in the market or the portfolio's benchmark.

Selection Effect: An attribution effect that describes the amount attributable to the managers' stock selection decisions, relative to the benchmark.

Sharpe Ratio: A measure of portfolio efficiency. The Sharpe Ratio indicates excess portfolio return for each unit of risk associated with achieving the excess return. The higher the Sharpe Ratio, the more efficient the portfolio. Sharpe ratio is calculated as: $\text{Portfolio Excess Return} / \text{Portfolio Standard Deviation}$.

Sortino Ratio: Measures the risk-adjusted return of an investment, portfolio, or strategy. It is a modification of the Sharpe Ratio, but penalizes only those returns falling below a specified benchmark. The Sortino Ratio uses downside deviation in the denominator rather than standard deviation, like the Sharpe Ratio.

Standard Deviation: A measure of volatility, or risk, inherent in a security or portfolio. The standard deviation of a series is a measure of the extent to which observations in the series differ from the arithmetic mean of the series. For example, if a security has an average annual rate of return of 10% and a standard deviation of 5%, then two-thirds of the time, one would expect to receive an annual rate of return between 5% and 15%.

Style Analysis: A return based analysis designed to identify combinations of passive investments to closely replicate the performance of funds

Style Map: A specialized form or scatter plot chart typically used to show where a Manager lies in relation to a set of style indices on a two-dimensional plane. This is simply a way of viewing the asset loadings in a different context. The coordinates are calculated by rescaling the asset loadings to range from -1 to 1 on each axis and are dependent on the Style Indices comprising the Map.

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