



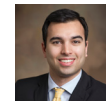
Estimated Factor Exposures: Signal or Noise?

Considerations for thoughtful application of factor analysis.

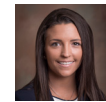
May 2019

KEY INSIGHTS

- Many investors now use factor analysis to identify the drivers of active performance. However, the investment industry has yet to agree on a single, definitive approach.
- Active factor contributions are not static. Exposures can shift both as portfolio positioning evolves and as correlations among risk factors change over time.
- Unexplained risk and the instability of factor relationships mean that the excess returns on active strategies may not be easily replicated using backward-looking factor exposures.
- We believe factor analysis should be applied within a robust framework that takes its potential imprecision into account and also includes other quantitative and qualitative methods.



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Factor analysis has become a popular tool for portfolio managers, investors, and financial advisors seeking a deeper understanding of the performance of actively managed strategies. However, significant differences in factor methodology, and the growing complexity of many factor models, have raised questions about the objectivity and reliability of such analyses.

Historically, the primary focus for most active equity managers has been individual security selection. Over time, academic research also has identified a number of common equity market factors—such as size, valuation, quality, and momentum—that are not fully correlated with each other or with market

beta and that are now used by investors when decomposing active risk and excess return.

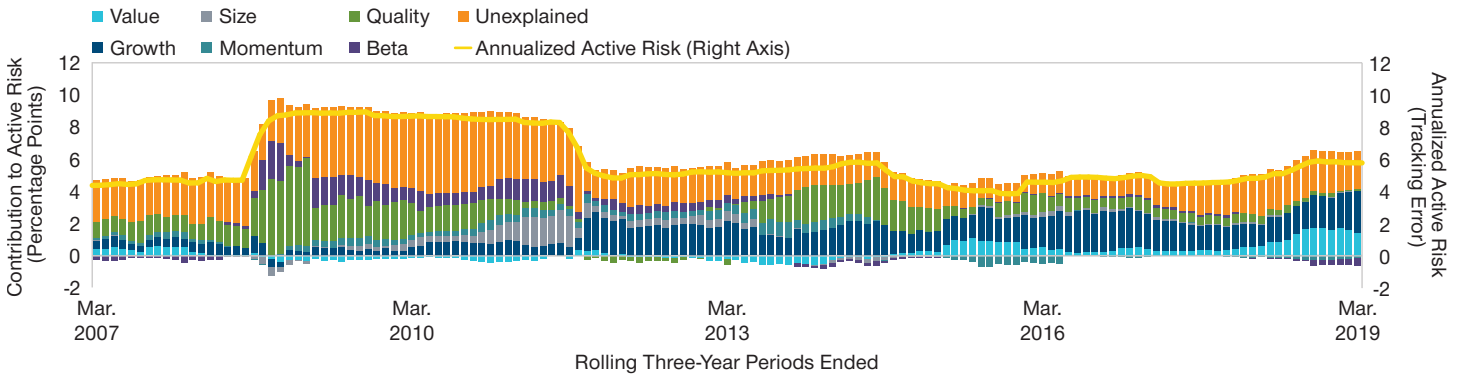
By identifying and tracking factor exposures within active portfolios, investors may be able to gain deeper insights into how their managers have generated returns and how their investment processes have evolved over time. However, the investment industry has yet to agree on a single, definitive factor methodology. Researchers continue to debate different risk factors—which in turn can be defined or measured using a variety of financial metrics. Investors need to understand that these choices may produce very different models and lead to very different analytical conclusions.

(Fig. 1) Relative Factor Importance Can Change Significantly Over Time

Factor Contributions to Total Active Risk

T. Rowe Price Global Focused Growth Equity

March 31, 2004, Through March 31, 2019



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“Our hypothetical example illustrates the weak relationship between the active portfolio’s excess returns and those of the replication strategy.”

The growth of factor-based analysis also has led some investors to consider the possibility of reproducing the returns on existing active portfolios by tracking the factor exposures within them. In our view, the imprecision associated with factor modeling highlights the potential risks in such an approach. Our analysis also suggests that factor risks may not be as closely linked to active returns as many investors seem to assume. For these reasons, we believe that replication strategies based on backward-looking factor positions are likely to result in subpar investment performance.

The Roles of Factor Analysis

While there are many potential considerations in factor-based analysis, we focus on two common applications:

- Decomposition of active risk, including the variability of factor contributions over time and the impact of modifying the time periods used;

- Excess return attribution, or the ability of the various risk factors to explain excess returns.

In addition, we constructed a simple hypothetical model for seeking to replicate future excess returns for an active equity portfolio by tracking its historical factor exposures. Our hypothetical example illustrates the weak relationship between the active portfolio’s excess returns and those of the replication strategy.

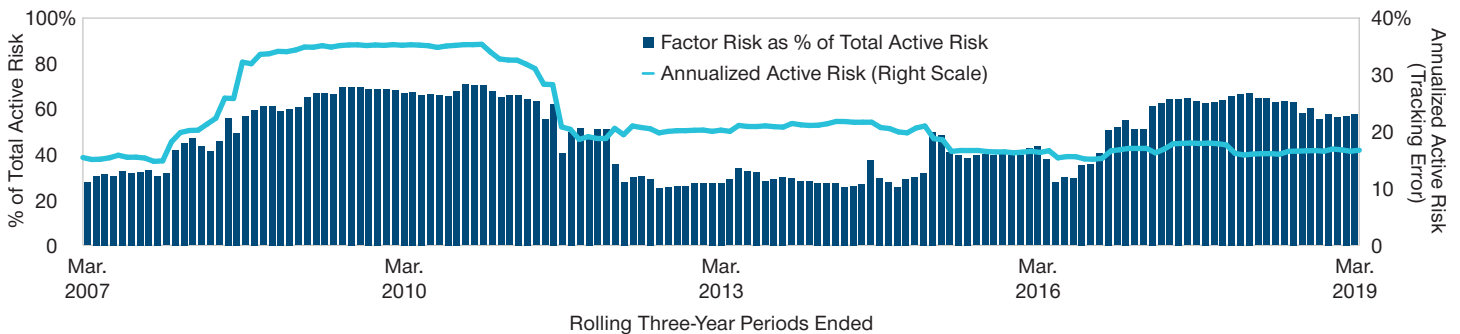
The methodology used in this paper employs the T. Rowe Price Equity Style Factor Model, which primarily is based on corporate balance sheet and income statement items and other equity fundamentals.¹ The specific portfolio used in our analysis is the T. Rowe Price Global Focused Growth Equity (GFGE) composite; however, we believe our findings provide insights that also can be applied to the analysis of other active strategies.

¹ The 5 risk factors (in addition to market beta) specified in the T. Rowe Price Equity Style Factor Model, and the metrics used to quantify those risk factors, can be found in the appendix.

(Fig. 2) Correlation Shifts Can Raise or Lower the Importance of Factor Risk

Factor Risk as % of Total Active Risk in a Hypothetical Single-Stock Portfolio

March 31, 2004 Through March 31, 2019



Sources: FactSet (see Additional Disclosures); MSCI; FTSE (see Fig. 1); Thomson Reuters (see Fig. 1); I/B/E/S (see Fig. 1); Compustat (see Fig. 1); IDC (see Fig. 1). All data analysis by T. Rowe Price.

Factor Contributions Are Dynamic

A central point to understand in any factor analysis is that active factor contributions are not static. Exposures can change dynamically both as portfolio positioning changes and as correlations among risk factors shift over time. Figure 1, for example, shows historical factor contributions to active risk within the GFGE portfolio over three-year rolling periods ended March 31, 2019. At varying points in time, quality and growth each have been the single most significant factor contributing to portfolio active risk and at other times have been the least significant.

This instability in factor exposures across time highlights the importance of using rolling performance periods when decomposing a strategy's active risk in order to capture factor relationships across a variety of market environments.

Our analysis implicitly suggests that the level of unexplained risk in an actively managed portfolio also may vary widely depending on the particular period studied. Three primary reasons for these fluctuations are:

- The impact of security selection decisions;

- adjustments in factor exposures implemented by the manager;
- changes in factor relationships (such as cross-factor correlations).

That last cause—shifts in cross-factor correlations—often is overlooked in factor analysis, yet it can have a significant impact on a portfolio's assessed factor profile and on the expected risk and return characteristics associated with that profile.

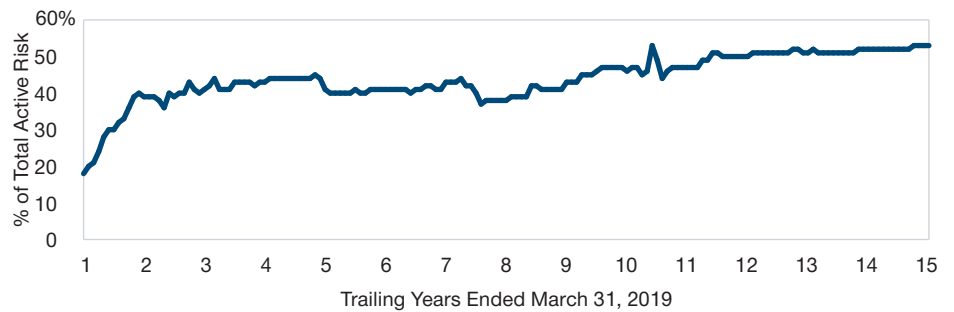
To illustrate this point, we created a hypothetical portfolio holding a single security, the common stock of a large, diversified financial services company. We then regressed the historical returns of that security over three-year rolling periods ended March 31, 2019, based on the same factors we used to analyze the GFGE portfolio.

As the ultimate "high conviction" strategy, a portfolio holding only one stock normally would be expected to have an extremely large unexplained risk factor—reflecting the historical predominance of security-specific risk within unexplained active risk. However, Figure 2 indicates that even for a single-stock portfolio, the contribution of unexplained risk can shift significantly over time—in this case, from

“...the results of any factor decomposition analysis are highly time-dependent.”

(Fig. 3) The Importance of Unexplained Risk May Rise Over Longer Periods

Unexplained Risk as a % of Total Active Risk
 T. Rowe Price Global Focused Growth Equity
 Backward-Expanding Windows, March 31, 2004, Through March 31, 2019



Sources: MSCI; FTSE (see Fig. 1); Thomson Reuters (see Fig. 1); I/B/E/S (see Fig. 1); Compustat (see Fig. 1); IDC (see Fig. 1). All data analysis by T. Rowe Price.

as high as 75% to as low as 29% over the period shown.

In part, the variation in unexplained risk in our hypothetical single-stock portfolio was driven by the specific factor set in the T. Rowe Price Equity Style Factor Model. If the model had included a financial factor, for example, the unexplained contribution probably would have been significantly lower. However, the variability over time seen in Figure 2 also was driven by changing relationships among the risk factors themselves.

These results appear to have significant implications for investors using factor analysis to assess the “activeness” of an investment strategy. As shown, the unexplained component of active risk can be highly unstable and may depend on changing relationships among the factors themselves. In our view, this variability should be a key consideration when applying any backward-looking factor analysis.

We believe it is important for investors to recognize these analytical nuances to avoid the temptation of applying overly simplified rules when evaluating their own active strategies. In our view, factor attribution should be applied within a robust framework that takes

into account its potential imprecision and that complements the analysis using other traditional quantitative and qualitative methods—for example, by supplementing a returns-based factor analysis with a holdings-based analysis.

Factor Importance Is Time-Dependent

Because factor exposures within an active portfolio can be expected to change dynamically over time, the results of any factor decomposition analysis are highly time-dependent—thus the importance of evaluating performance across multiple rolling windows to capture the instability of factor exposures. However, modifying the time frames for those rolling windows (e.g., using 10-year instead of one-year rolling periods) may significantly change the outcome of the analysis.

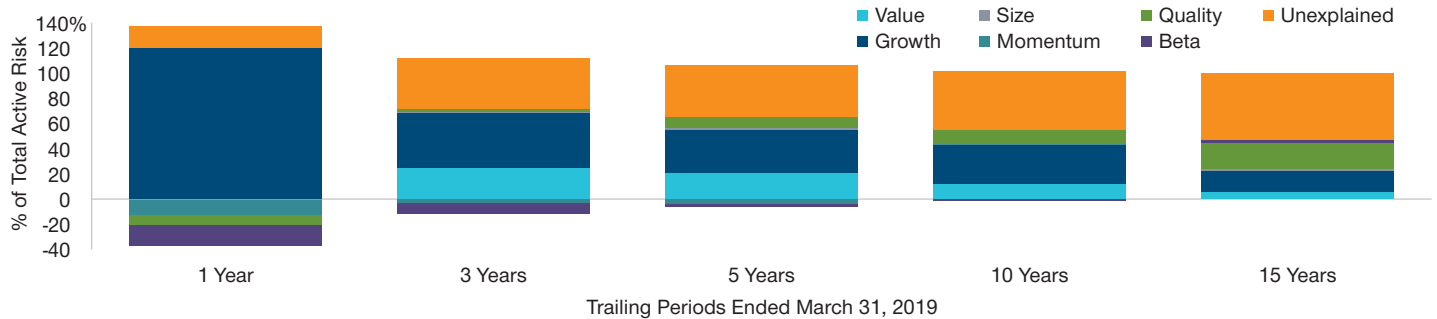
Figure 3, for example, shows the contribution of unexplained risk to total active risk for the GFGE portfolio over the period March 31, 2004, through March 31, 2019. The data points in the chart are all backward-expanding windows—in other words, each data point adds an additional month to the regression compared with the one before it.

(Fig. 4) Longer-Term Factor Contributions Are Distributed More Evenly

Factor Contributions to Total Active Risk

T. Rowe Price Global Focused Growth Equity

Trailing Periods Ended March 31, 2019



Sources: T. Rowe Price; MSCI; FTSE (see Fig. 1); Thomson Reuters (see Fig. 1); I/B/E/S (see Fig. 1); Compustat (see Fig. 1); IDC (see Fig. 1). All data analysis by T. Rowe Price.

Interestingly, the unexplained share of active risk in the portfolio increased quickly until the regression covered a three-year rolling period. From that point on, the influence of unexplained risk leveled off somewhat but still rose gradually, peaking at a 15-year window, the end point in our analysis.

The implication is that, over the long run, unexplained risk accounted for the majority of the strategy's active risk, while the combined contribution of the six risk factors (including market beta) specified in the T. Rowe Price Equity Style Factor Model diminished steadily.

In other words, while specific risk factors appeared to contribute a sizable portion of total active risk over shorter rolling periods, they explained less over time as relationships between the factors and the portfolio and among the factors themselves continued to evolve. We believe this is a result of the strategy's long-term, bottom-up, active approach to investing.

When analyzing factor exposures and their contributions to active risk, we think it is critical for investors to consider the portfolio manager's investment process. For strategies with a long-term focus—such as the GFGE Strategy—a returns-based analysis that

considered only the most recent years of performance could falsely highlight exposures that might have been only fleeting and that likely stemmed from the manager's security-selection decisions based on forward-looking company fundamentals.

In addition, while the proportion of active risk explainable by the factors in our model declined as regression windows were extended, the composition of those factor contributions also changed over time. Figure 4 illustrates the variability of the magnitude of individual factor contributions within the GFGE portfolio.

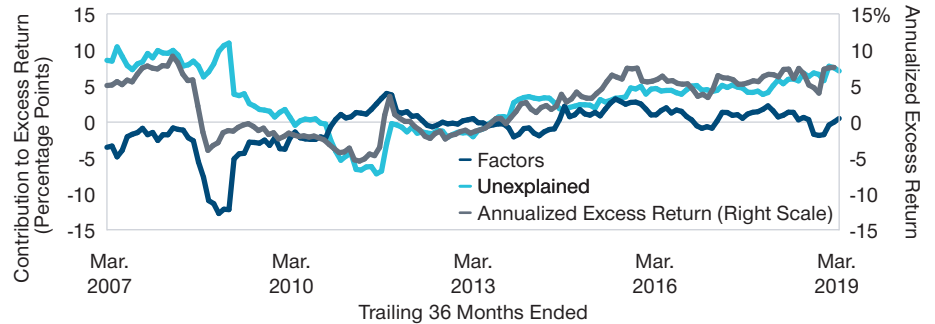
As we focused on increasingly longer-term periods, we found that the contributions by any one factor tended to grow weaker. For example, our growth factor contributed slightly more than one-third of the GFGE portfolio's total active risk over the trailing 12-month window (March 31, 2018, through March 31, 2019). However, as we moved to the longer-term 15-year window ended March 31, 2019, the growth factor contributed less than 20% of total active risk. Factor contributions also were relatively diversified over the 15-year window, spanning value, growth, and quality.

(Fig. 5) Factor Risks May Be Only Weakly Related to Excess Returns

Contributions to Annualized Excess Returns¹

T. Rowe Price Global Focused Growth Equity (Gross of Fees)

Rolling 36-Month Periods, March 31, 2004, Through March 31, 2019



Past performance is not a reliable indicator of future performance.

Sources: T. Rowe Price; MSCI; FTSE (see Fig. 1); Thomson Reuters (see Fig. 1); I/B/E/S (see Fig. 1); Compustat (see Fig. 1); IDC (see Fig. 1). All data analysis by T. Rowe Price.

¹ Excess returns relative to the Morgan Stanley Capital International All Country World Index (MSCI ACWI). Returns would be lower as a result of the deduction of applicable fees.

“...while factors may explain a sizable portion of total active risk, they may *not* explain a comparably large portion of total excess return.”

Factors May Explain Risk but Not Return

Factor decomposition analysis most typically is used to explain active risk, and the “activeness” of portfolio managers often is judged based on the percentage of total active risk that cannot be explained by a factor model. However, identifying and measuring active risk factors is not the same as quantifying the contributions that those factors have made to excess return. In other words, while factors may explain a sizable portion of total active risk, they may *not* explain a comparably large portion of total excess return.

Our initial analysis of the GFGE portfolio, shown in Figure 1, indicated that the factors in our proprietary equity style factor model described a substantial portion of active risk in the portfolio over the period March 31, 2004, through March 31, 2019. However, Figure 5 shows that those same factors explained only a modest share of the GFGE portfolio’s total excess return. The majority of the excess return

was unexplained across most of the time periods studied. In our view, the high proportions of unexplained active risk and excess return demonstrated in our analysis appear to offer compelling evidence of the GFGE Strategy’s “activeness.”

The Trouble With Replication

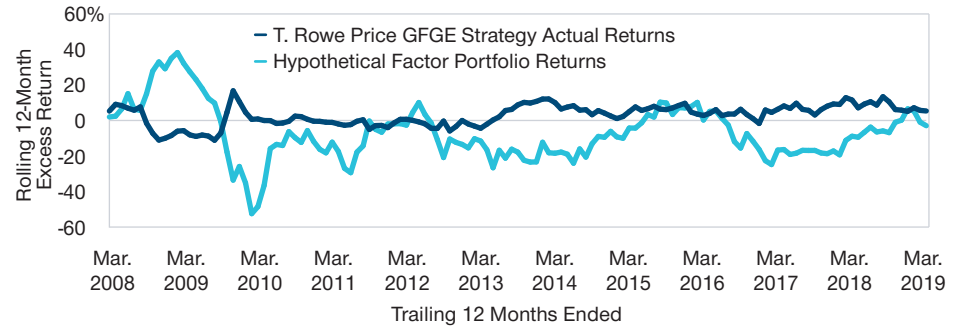
The development of increasingly sophisticated factor models has led some investors to explore whether actively managed strategies could be replicated simply by tracking the factor exposures in those portfolios, thus achieving substantially the same performance while avoiding the costs associated with individual security selection based on fundamental research. However, our analysis suggests that this approach could yield extremely poor results.

To illustrate this point, we constructed a hypothetical portfolio based entirely on the estimated factor exposures within the GFGE portfolio. We then compared the excess returns that potentially could have been generated by this portfolio with the historical returns actually experienced

² Excess returns for the GFGE Strategy and potential excess returns for the hypothetical factor portfolio both were measured relative to the MSCI ACWI. See the Appendix for important disclosures regarding hypothetical portfolios.

(Fig. 6) Active Performance May Not Be Replicable With Factor Exposures

Potential Excess Returns for a Hypothetical Factor-Based Strategy Versus the T. Rowe Price Global Focused Growth Equity Composite (Gross of Fees)¹
Rolling 12-Month Periods, March 31, 2007, Through March 31, 2019



	GFGE Composite	Hypothetical Factor Portfolio
Average Annualized Excess Returns Over the MSCI ACWI	2.9%	-7.1%
Volatility of Excess Returns	5.7%	15.4%
Correlation	-0.38	

Past performance is not a reliable indicator of future performance.

Sources: T. Rowe Price; MSCI; FTSE (see Fig. 1); Thomson Reuters (see Fig. 1); I/B/E/S (see Fig. 1); Compustat (see Fig. 1); IDC (see Fig. 1). All data analysis by T. Rowe Price.

¹ Excess returns relative to the MSCI ACWI. Returns would be lower as a result of the deduction of applicable fees.

This chart contains hypothetical data. See Appendix for important disclosures.

80%

How often the GFGE portfolio could have posted higher annualized excess returns than the hypothetical factor portfolio over the rolling 12-month periods studied.

by the GFGE portfolio. Our analysis covered rolling 12-month excess returns over the period March 31, 2007, through March 31, 2019.² Our hypothetical factor portfolio was rebalanced monthly based on the trailing 36-month factor exposures in the GFGE portfolio as estimated by the T. Rowe Price Equity Style Factor Model.

We found that while our factor set did a relatively poor job of explaining the GFGE Strategy's long-term historical excess returns, trailing factor exposures did an even worse job of predicting (or tracking) the strategy's future excess returns.

As can be seen in Figure 6, the hypothetical factor strategy not only could have underperformed the GFGE portfolio, but could have done so with considerably more portfolio volatility. Over the 133 rolling 12-month periods

covered by our study, the hypothetical factor portfolio could have:

- underperformed the MSCI ACWI by an average 7%,
- experienced average active risk (tracking error) in excess of 15%,
- posted lower annualized excess returns than the GFGE portfolio in almost 80% of rolling-12 month periods.

The analysis indicates that, historically, the performance of the GFGE portfolio could not have been effectively replicated using this method of tracking the portfolio's factor exposures on a backward-looking basis.

Conclusions

Factor-based analysis can be an efficient and effective method for decomposing

active risk into its primary drivers over time. The insights from such an analysis may flag potential areas of concern for investors—such as unexpected changes in a manager’s investment process—or identify potential opportunities to improve future excess returns.

However, as highlighted in this paper, we believe it is important for investors to consider the subjectivity inherent in any factor-based analysis. The results of an analysis can change dramatically depending on the parameters used. Therefore, we recommend that investors:

- incorporate multiple model calibrations (e.g., look-back windows, rolling time periods) to seek to minimize biases stemming from any one approach;
- combine returns-based factor regression with complementary approaches, such as holdings-based

and historical analysis using different factor models and statistical methods;

- include a qualitative analysis of the investment philosophy and process of each active strategy under review.

While factor models can provide a helpful guide to historical drivers of active risk, it is important to understand that the performance of a strategy over a sample of historical periods can be very different from the actual results going forward. Likewise, excess returns for a strategy that is based on tracking the historical factor exposures in an active equity portfolio may be only weakly related to the actual returns for that active portfolio.

We believe these recommendations can help investors and analysts develop a more robust framework for factor analysis, thereby reducing the risks of reaching faulty analytical conclusions or making poor investment decisions.

Key Risks—The following risks are materially relevant to the strategy highlighted in this material: Transactions in securities of foreign currencies may be subject to fluctuations of exchange rates which may affect the value of an investment. The portfolio is subject to the volatility inherent in equity investing, and its value may fluctuate more than a portfolio investing in income-oriented securities. The portfolio may include investments in the securities of companies listed on the stock exchanges of developing countries.

Hypothetical Results: The results shown are hypothetical, do not reflect actual investment results, and are not a guarantee of future results. Hypothetical results were developed with the benefit of hindsight and have inherent limitations. Hypothetical results do not reflect actual trading or the effect of material economic and market factors on the decision-making process. These results are derived from the actual returns of The T. Rowe Price Global Focused Growth Equity Strategy; MSCI ACWI Index, FTSE. Results do not include management fees, advisory fees, trading costs, and other related fees. Actual returns may differ significantly from the results shown above.

Additional Disclosures

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Appendix: Study Methodology

The active risk and return analyses in this study all were computed relative to the Morgan Stanley Capital International All Country World Index (MSCI ACWI). The active risk and return decomposition analyses were performed using rolling and backward-extending window multivariate linear regressions on the five long/short fundamental equity style factors defined in the T. Rowe Price

Equity Style Factor Model, plus a global equity market factor.

The five style factors in the T. Rowe Price model, and the metrics used to define them, are shown in Figure A1. Market beta was measured based on the return on the MSCI ACWI in excess of the risk-free rate, defined as the return on the FTSE 3-Month Treasury Bill Index.

(Fig. A1) Style Factors in the T. Rowe Price Equity Style Factor Model

Factor	Metric Methodology
Value	Fundamental factor based on value-related balance-sheet and income-statement items: Enterprise value (EV)/earnings before interest, taxes, depreciation, and amortization (EBITDA); EV/sales; free cash flow yield; price/book; forward 12-month earnings per share (EPS)
Growth	Fundamental factor based on growth-related balance-sheet and income-statement items: Forward two-year EPS growth; forward two-year sales growth; trailing 12-month EPS growth; trailing 12-month sales growth
Size	Small minus large: Market capitalization
Momentum	High minus low: Trailing nine-month stock price momentum
Quality	High minus low: Composite average of market cap-weighted factors including return stability, return on equity, earnings quality, payout policy

Source: T. Rowe Price.

(Fig. A2) Composite Performance

As of March 31, 2019. Figures are calculated in U.S. Dollar. Domicile: United States

	Annualized						
	3 Months	1 Year	3 Years	5 Years	10 Years	15 Years	Since Manager Inception ⁴
Global Focused Growth Equity Composite (Gross)	18.11%	8.51%	18.87%	13.02%	16.21%	10.21%	15.92%
Global Focused Growth Equity Composite (Net—Separate Account)	17.95	7.87	18.17	12.35	15.52	9.55	15.23
MSCI All Country World Index ¹	12.33	3.16	11.27	7.03	12.58	7.36	9.54
Value Added (Gross of Fees) ²	5.78	5.35	7.60	5.99	3.63	2.85	6.38
MSCI All Country World Index Net ³	12.18	2.60	10.67	6.45	11.98	6.80	8.96
Value Added (Gross of Fees) ²	5.93	5.91	8.20	6.57	4.23	3.41	6.96

Past performance is not a reliable indicator of future performance.

Gross performance returns are presented before management and all other fees, where applicable, but after trading expenses. Net of fees performance reflects the deduction of the highest applicable management fee that would be charged based on the fee schedule contained within this material, without the benefit of breakpoints. Gross and net performance returns reflect the reinvestment of dividends and are net of all non-reclaimable withholding taxes on dividends, interest income, and capital gains.

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¹Returns shown with gross dividends reinvested.

²The Value Added is shown as Global Focused Growth Equity Composite (Gross of Fees) minus the benchmark in the previous row.

³Returns shown with reinvestment of dividends after the deduction of withholding taxes.

⁴September 30, 2012 represents the date the Portfolio Manager took over lead management responsibility for the strategy.

GIPS® DISCLOSURE

Global Focused Growth Equity Composite

Period Ended March 31, 2019. Figures Shown in U.S. dollar.

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	YTD 2019
Gross Annual Returns (%)	46.02	12.79	-10.87	16.78	34.11	7.24	7.78	6.81	33.89	-3.82	18.11
Net Annual Returns (%) ¹	45.17	12.12	-11.41	16.09	33.33	6.61	7.14	6.17	33.10	-4.40	17.95
MSCI All Country World Index (%) ²	35.41	13.21	-6.86	16.80	23.44	4.71	-1.84	8.48	24.62	-8.93	12.33
MSCI All Country World Index Net (%) ²	34.63	12.67	-7.35	16.13	22.80	4.16	-2.36	7.86	23.97	-9.41	12.18
MSCI World Index Net (%) ²	29.99	11.76	-5.54	15.83	26.68	4.94	-0.87	7.51	22.40	-8.71	12.48
Composite 3 Yr St. Dev.	27.60	29.42	21.75	20.08	17.10	12.35	11.79	13.06	12.53	13.25	12.84
MSCI All Country World Index 3 Yr St. Dev.	22.37	24.51	20.59	17.11	13.92	10.48	10.78	11.07	10.37	10.48	9.86
MSCI All Country World Index Net 3 Yr St. Dev.	22.34	24.49	20.59	17.13	13.94	10.50	10.79	11.06	10.36	10.48	9.87
MSCI World Index Net 3 Yr St. Dev.	21.40	23.72	20.15	16.74	13.54	10.23	10.80	10.92	10.23	10.38	9.92
Composite Dispersion	0.47	0.36	0.13	0.44	N/A	N/A	0.30	N/A	0.20	N/A	N/A
Comp. Assets (Millions)	7,944.0	8,407.4	5,128.6	2,048.0	1,036.5	968.8	1,076.5	1,323.1	2,356.6	2,973.2	4,155.1
# of Accts. in Comp.	25	24	21	11	8	7	8	9	12	11	13
Total Firm Assets (Billions)	395.2	485.0	493.1	579.8	696.3	749.6	772.4	817.2	1,000.2	972.7	1,093.2

¹ Reflects deduction of highest applicable fee schedule without benefit of breakpoints. Investment return and principal value will vary. **Past performance is not a reliable indicator of future performance.** Monthly composite performance is available upon request. **See below for further information related to net of fee calculations.**

² Primary benchmark is MSCI AC World Index and secondary benchmark is MSCI World Index.

T. Rowe Price (TRP) has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). TRP has been independently verified for the 22 year period ended June 30, 2018 by KPMG LLP. The verification report is available upon request. Verification assesses whether (1) the firm has complied with all the composite construction requirements of the GIPS standards on a firm wide basis and (2) the firm's policies and procedures are designed to calculate and present performance in compliance with the GIPS standards. Verification does not ensure the accuracy of any specific composite presentation. TRP is a U.S. investment management firm with various investment advisers registered with the U.S. Securities and Exchange Commission, the U.K. Financial Conduct Authority, and other regulatory bodies in various countries and holds itself out as such to potential clients for GIPS purposes. TRP further defines itself under GIPS as a discretionary investment manager providing services primarily to institutional clients with regard to various mandates, which include U.S., international, and global strategies but excluding the services of the Private Asset Management group. The minimum asset level for equity portfolios to be included in composites is \$5 million and prior to January 2002 the minimum was \$1 million. The minimum asset level for fixed income and asset allocation portfolios to be included in composites is \$10 million; prior to October 2004 the minimum was \$5 million; and prior to January 2002 the minimum was \$1 million. Valuations are computed and performance reported in U.S. dollars.

Gross performance returns are presented before management and all other fees, where applicable, but after trading expenses. Net of fees performance reflects the deduction of the highest applicable management fee that would be charged based on the fee schedule appropriate to you for this mandate, without the benefit of breakpoints. Gross and net performance returns are net of nonreclaimable withholding taxes on dividends, interest income, and capital gains. Effective June 30, 2013, portfolio valuation and assets under management are calculated based on the closing price of the security in its respective market. Previously portfolios holding international securities may have been adjusted for after market events. Policies for valuing portfolios, calculating performance, and preparing compliant presentations are available upon request. Dispersion is measured by the standard deviation across asset weighted portfolio returns represented within a composite for the full year. Dispersion is not calculated for the composites in which there are five or fewer portfolios.

Some portfolios may trade futures, options, and other potentially high risk derivatives which generally represent less than 10% of a portfolio.

Benchmarks are taken from published sources and may have different calculation methodologies, pricing times, and foreign exchange sources from the composite.

Composite policy requires the temporary removal of any portfolio incurring a client initiated significant cash inflow or outflow greater than or equal to 10% of portfolio assets. The temporary removal of such an account occurs at the beginning of the measurement period in which the significant cash flow occurs and the account re enters the composite on the last day of the current month after the cash flow. Additional information regarding the treatment of significant cash flows is available upon request.

The firm's list of composite descriptions and/or a presentation that adheres to the GIPS® standards are available upon request.

A portfolio management change occurred effective October 1, 2012. There were no changes to the investment program or strategy related to this composite.

FEE SCHEDULE

Global Focused Growth Equity Composite. The Global Focused Growth Equity Composite seeks long term capital appreciation primarily through investment in established companies operating in developed markets throughout the world, with faster earnings growth and reasonable valuation levels relative to market/sector averages. Further, the strategy seeks to buy companies where there is insight about improving economic returns of the business that are not fully reflected in their valuation. (Created June 2006.) (Formerly known as Global Equity Composite.)	First \$50 million 60 basis points Next \$50 million 55 basis points
	Above \$100 million 50 basis points on all assets ¹
	Above \$200 million 45 basis points on all assets ¹

¹ A transitional credit is applied to the fee schedule as assets approach or fall below the breakpoint. Minimum separate account size 50 million USD.

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