

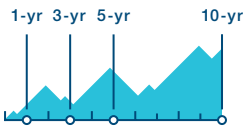


T. Rowe Price’s Strategic Investing Approach Has Benefited Our Target Date Funds

Discipline has brought long-term rewards for clients.

KEY INSIGHTS

- T. Rowe Price examined 11 of our U.S. Retirement Funds (RFs) with at least 10-year records to quantify the value added by our strategic investing approach.¹
- On average, the 11 funds outperformed their benchmarks in 85% of rolling five-year periods and in every rolling 10-year period since inception, net of fees.
- T. Rowe Price seeks to add value for clients at multiple levels, including glide-path design, long-term diversification, and our strategic investing approach.
- We believe our strategic investing approach—including tactical allocation and active management of the underlying strategies—can enhance retirement outcomes.



Rolling Periods

We measured performance over a large number of periods covering the full track record of each RF, instead of just looking at the most recent 5- or 10-year periods. Every calendar month marked the start of a new period—so an RF that launched on September 30, 2002, for example, has 136 rolling five-year periods included in the study.

(Fig. 1)

Retirement Funds Included in Our Performance Study

Source: T. Rowe Price.

Fund	Inception Date
Retirement 2005 Fund	2/27/2004
Retirement 2010 Fund	9/30/2002
Retirement 2015 Fund	2/27/2004
Retirement 2020 Fund	9/30/2002
Retirement 2025 Fund	2/27/2004
Retirement 2030 Fund	9/30/2002

Fund	Inception Date
Retirement 2035 Fund	2/27/2004
Retirement 2040 Fund	9/30/2002
Retirement 2045 Fund	5/31/2005
Retirement 2050 Fund	12/29/2006
Retirement 2055 Fund	12/29/2006

Note that past performance data throughout this material are not reliable indicators of future performance.

¹ All funds are subject to market risk, including possible loss of principal. For more information on the T. Rowe Price funds used in this study, please visit [troweprice.com/complete-target-date-study](https://www.troweprice.com/complete-target-date-study).



How the strategic allocations in a target date fund change over time. A fund far from its target date typically will feature higher equity allocations. A fund close to its target date typically will increase the weight to bonds or other less volatile investments.



Active Success Rate

The active success rate records the percentage of times a fund beat its designated benchmark, net of fees and trading costs, over a specified time period (e.g., 10 years). Think of this as a measure of how often a client might look at his or her monthly statement and find that a fund has outperformed for that time period.

To demonstrate that T. Rowe Price's target date investment process historically has created value for our clients, we conducted a rigorous study of the performance of all of our RFs that had at least 10-year track records as of December 31, 2018 (Figure 1). These 11 RFs held virtually all (more than 99%) of the RF assets managed by the firm as of that date.²

We examined fund performance at three different levels to quantify the following:

- 1. The value added by T. Rowe Price's tactical allocation process.** Returns were calculated based on each fund's fixed strategic asset allocations and then compared with actual returns, which reflect tactical allocation changes.
- 2. The value added by security selection.** Excess returns—net of fees and other costs—were calculated for the underlying funds in each RF relative to each underlying fund's asset class, sector, or style benchmark. These fund-level returns were then aggregated to show the total excess returns achieved by each RF.
- 3. The total value added by T. Rowe Price's implementation.** RF returns were compared with combined index benchmarks constructed by T. Rowe Price that track the strategic allocations of each fund as it moves along its glide path. (See "Benchmarking Target Date Strategies.")

For each level of fund performance, two measures were calculated:

- **Active success rates:** The percentage of total rolling periods in which the RF added value at the performance level being measured.
- **Excess returns:** The value added by each RF at the performance level being measured. Excess returns were calculated for each rolling period and then averaged across all the periods in each time frame.

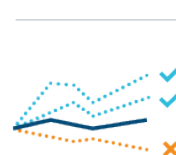
T. Rowe Price believes strongly that longer time horizons provide the most meaningful measures of target date implementation, as they smooth out the effects of shorter-term factors that can produce a distorted picture of relative performance. Accordingly, our analysis focused primarily on performance over rolling five-year and rolling 10-year periods, rolled monthly.³

To provide a summary of the effectiveness of T. Rowe Price's target date process, we also calculated performance averages for all 11 RFs across all three levels of our analysis (total value added, tactical allocation, and security selection). To account for the differing longevity of each RF, these averages were time weighted—the results are based on the percentage of the total performance periods in each time frame provided by each RF.



Tactical Allocation

Managers of target date funds may seek to add value by adjusting the asset allocation to the underlying portfolios to try to take advantage of especially attractive valuations or other short-term market conditions.



Security Selection

Managers of active investment portfolios typically seek to add value by picking stocks, bonds, or other securities that they believe will outperform broad market indexes.



Total Implementation

The full value added by efforts to improve target date strategy returns through tactical allocation, security selection in the underlying funds, or both.

² One Retirement Fund with a relatively distant target date (2060) was excluded from the study because of its relatively short performance track record.

³ Performance results over rolling 1- and 3-year periods for the 11 funds included in our analysis can be found at [troweprice.com/complete-target-date-study](https://www.troweprice.com/complete-target-date-study).

100%

Positive active success rates for total implementation for all 11 RFs over 10-year rolling periods.

“Annualized excess returns were consistently positive across all time frames for all funds.”

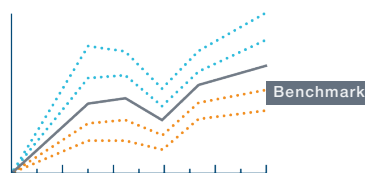
Study Results

By and large, the time-weighted averages reflect the same results as for the individual Retirement Funds: The total value added by T. Rowe Price’s implementation and the contributions made by tactical asset allocation and security selection were all positive and relatively stable across different time periods (Figures 2 and 3).⁴

Individual performance results for the 11 RFs in our study also were strongly positive across both 5- and 10-year time frames:

- **Tactical asset allocation:** The performance contribution from tactical allocation was positive in every 10-year rolling period for every fund (i.e., a 100% active success rate). Active success rates were overwhelmingly positive across five-year rolling periods (averaging 93%). Value added was positive across all time frames (Figure 4).⁵
- **Security selection:** Excess returns were positive in every 10-year rolling period for every RF and strongly positive (averaging almost 90%) across five-year rolling periods. Excess returns were positive across all time frames for all funds (Figure 5).
- **Total implementation:** Active success rates were positive in every 10-year rolling period for every RF and averaged 85% across five-year rolling time periods. Annualized excess returns were consistently positive across all time frames for all funds (Figure 6).

Benchmarking Target Date Strategies



T. Rowe Price uses combined index benchmarks to measure the relative performance of the firm’s Retirement Funds. These benchmarks are constructed from four indexes that reflect the broad asset classes in the underlying RF portfolios:

- U.S. Equity: The Russell 3000 Index.
- Non-U.S. Equity: The MSCI All Country World Index ex USA (Net).
- Fixed Income: The Bloomberg Barclays U.S. Aggregate Bond Index.
- Inflation Focused Fixed Income: The Bloomberg Barclays U.S. 1–5 Year Treasury TIPS Index.

The combined index benchmarks mirror the strategic allocations for each fund, isolating the contributions made by tactical allocation and security selection. This means the weights assigned to different asset classes in the benchmarks will change over time as the funds move along their glide paths. The combined index benchmarks for the 11 funds included in our analysis can be found at

troweprice.com/complete-target-date-study.

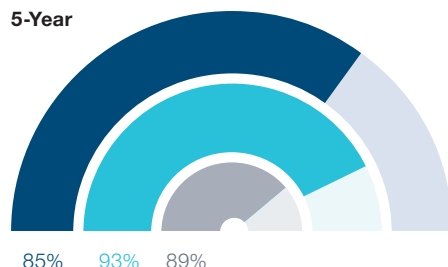
(Fig. 2 and Fig. 3)

Fund Inceptions Through
December 31, 2018

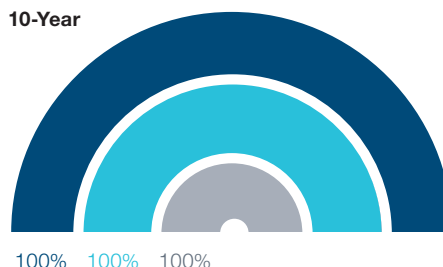
- Total Implementation
- Tactical Asset Allocation
- Security Selection

Time-Weighted Average Active Success Rates for T. Rowe Price Retirement Funds

5-Year



10-Year

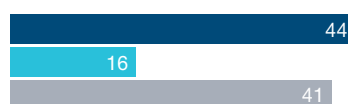


Fund Inceptions Through
December 31, 2018

Sources: Bloomberg Barclays; MSCI, Please see important information section for information about this MSCI information.; Russell; and T. Rowe Price. Data analysis by T. Rowe Price.

Time-Weighted Average Annualized Value Added (in Basis Points) for T. Rowe Price Retirement Funds

5-Year



10-Year



⁴ Certain types of assets are not represented in the combined index benchmarks of the Retirement Funds. These out-of-benchmark allocations may include high yield bonds; floating rate bank loans; emerging markets bonds; international bonds; dynamic global bonds; U.S. long-term Treasury securities; and a “real asset” allocation consisting of natural resources, metals and mining, and real estate stocks. As a result of the returns contributed by RF out-of-benchmark allocations, the value added by tactical allocation and security selection does not exactly equal the value added by total implementation shown in Figure 3.

⁵ The out-of-benchmark allocations in T. Rowe Price’s combined index benchmarks may materially affect RF excess returns relative to those benchmarks.

For more information on the excess returns attributable to out-of-benchmark allocations, please visit troweprice.com/complete-target-date-study.

(Fig. 4) Active Success Rates and Average Value Added by Tactical AllocationFund Inceptions Through
December 31, 2018**Active Success Rates**

Rolling periods

Average Annualized Value Added (Basis Points)

Rolling periods

Fund	5-Year	10-Year	5-Year	10-Year
Retirement Fund 2005	95%	100%	18	18
Retirement Fund 2010	96	100	20	19
Retirement Fund 2015	95	100	18	19
Retirement Fund 2020	94	100	20	20
Retirement Fund 2025	93	100	16	16
Retirement Fund 2030	94	100	16	16
Retirement Fund 2035	92	100	12	12
Retirement Fund 2040	93	100	14	13
Retirement Fund 2045	91	100	11	9
Retirement Fund 2050	87	100	10	5
Retirement Fund 2055	89	100	11	6

Sources: Bloomberg Barclays; MSCI. Please see important information section for information about this MSCI information.; Russell; and T. Rowe Price. Data analysis by T. Rowe Price.

(Fig. 5) Active Success Rates and Average Value Added by Security SelectionFund Inceptions Through
December 31, 2018**Active Success Rates**

Rolling periods

Average Annualized Value Added (Basis Points)

Rolling periods

Fund	5-Year	10-Year	5-Year	10-Year
Retirement Fund 2005	61%	100%	22	22
Retirement Fund 2010	60	100	18	22
Retirement Fund 2015	87	100	30	30
Retirement Fund 2020	89	100	31	35
Retirement Fund 2025	100	100	43	42
Retirement Fund 2030	94	100	43	47
Retirement Fund 2035	100	100	55	54
Retirement Fund 2040	94	100	50	53
Retirement Fund 2045	100	100	58	58
Retirement Fund 2050	100	100	54	59
Retirement Fund 2055	100	100	54	59

Sources: Bloomberg Barclays; Credit Suisse; J.P. Morgan; MSCI. Please see important information section for information about this MSCI information., Russell; and T. Rowe Price. Data analysis by T. Rowe Price.

(Fig. 6) Active Success Rates and Average Value Added by Total ImplementationFund Inceptions Through
December 31, 2018**Active Success Rates**

Rolling periods

Average Annualized Value Added (Basis Points)

Rolling periods

Fund	5-Year	10-Year	5-Year	10-Year
Retirement Fund 2005	82%	100%	46	45
Retirement Fund 2010	81	100	39	44
Retirement Fund 2015	84	100	44	43
Retirement Fund 2020	84	100	44	49
Retirement Fund 2025	86	100	45	44
Retirement Fund 2030	87	100	45	50
Retirement Fund 2035	87	100	47	45
Retirement Fund 2040	87	100	45	49
Retirement Fund 2045	88	100	46	43
Retirement Fund 2050	85	100	41	42
Retirement Fund 2055	85	100	41	42

Sources: Bloomberg Barclays; MSCI. Please see important information section for information about this MSCI information.; Russell; and T. Rowe Price. Data analysis by T. Rowe Price.

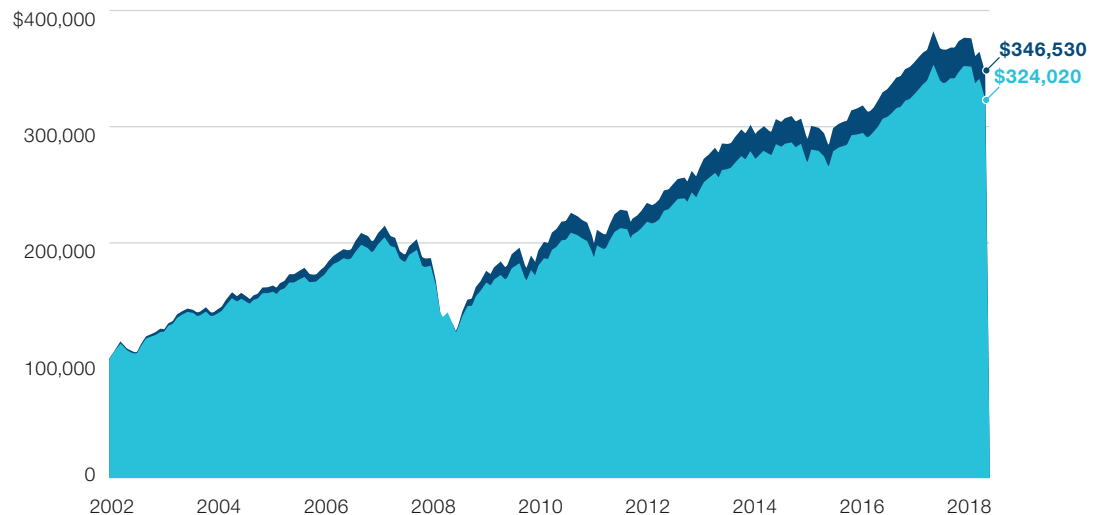
(Fig. 7)

September 30, 2002,
Through December 31, 2018

**T. Rowe Price Retirement
2020 Fund** ■
**Combined Index
Benchmark** ■

Example of the Benefits of T. Rowe Price's Strategic Investing Approach

Portfolio Growth Potential Relative to T. Rowe Price Combined Index Benchmark



Sources: Bloomberg Barclays; MSCI. Please see important information section about this MSCI information.; Russell; and T. Rowe Price. Data analysis by T. Rowe Price.

As of 12/31/2018, the fund's 1-, 5-, and 10-year average annual total returns were -4.94%, 4.47%, and 9.90%, respectively. Current performance may be higher or lower than the quoted past performance, which cannot guarantee future results. Share price, principal value, and return will vary, and you may have a gain or loss when you sell your shares. Average annual total return figures include changes in principal value, reinvested dividends, and capital gain distributions. To obtain the most recent month-end performance, please visit our website or contact a T. Rowe Price representative at 1-800-225-5132. The fund's expense ratio was 0.61% as of its most recent fiscal year ended 5/31/2018.

Benefits for Investors

The excess returns historically achieved by T. Rowe Price's Retirement Funds may seem modest compared with the absolute returns that investors typically have been able to achieve on diversified asset portfolios over longer periods. However, compounded over time, even a small

improvement in returns can make a significant difference in ending portfolio values.

Take, for example, the experience of the T. Rowe Price Retirement 2020 Fund.⁶ From its inception on September 30, 2002, through December 31, 2018, the 2020 fund outperformed its combined index benchmark by almost 0.5 of a percentage point, annualized. In other words, if an investor had invested \$100,000 in the 2020 fund at inception, by the end of 2018 his or her portfolio could have been worth \$22,510 more than the same amount invested in a hypothetical portfolio that earned the same return as the fund's combined index benchmark (Figure 7).

A \$22,510 difference in ending portfolio values could be significant for some retirement investors. In our example, the investor who invested in the Retirement 2020 Fund would be able to withdraw an additional \$1,126 per year over a 20-year retirement time horizon compared with the investor who invested in the hypothetical combined benchmark portfolio—assuming no further portfolio growth after retirement (Figure 8). For some retirees, that \$1,126 difference could have a meaningful impact on living standards.

(Fig. 8)

September 30, 2002, Through
December 31, 2018

Retirement 2020 Fund ■
Combined Index Portfolio ■

Sources: Bloomberg Barclays; MSCI. Please see important information section about this MSCI information.; Russell; and T. Rowe Price. Data analysis by T. Rowe Price.

Potential Postretirement Annual Spending Amounts

Income From a \$100,000 Investment*



* Assumes no further portfolio growth after retirement.

⁶ The Retirement 2020 Fund's inception date was 9/30/2002. The fund's combined index benchmark is composed of 58.50% stocks (40.95% Russell 3000 Index and 17.55% MSCI All Country World Index ex USA) and 41.50% bonds (33.50% Bloomberg Barclays U.S. Aggregate Bond Index and 8.00% Bloomberg Barclays U.S. 1-5 Year Treasury TIPS Index). Benchmark weightings are as of December 31, 2018.

“We believe the value added by our target date implementation can meaningfully enhance retirement outcomes for investors.

Our Approach to Strategic Investing

T. Rowe Price’s target date process seeks to improve outcomes for our target date clients at multiple levels—via glide-path design, long-term diversification, tactical asset allocation, and our strategic investing approach. We believe the value added by our target date implementation can meaningfully enhance retirement outcomes for investors.

Bottom-up fundamental research is at the core of how we manage the underlying strategies in our target date funds. That means that over 400 of our investment professionals go beyond the numbers by visiting senior corporate executives in their offices, touring their companies, and checking reality on the ground with suppliers and customers.⁷ This enables them to ask the

right questions to get a deeper understanding of where a company stands and where they think it could go in the future.

Our target date managers, backed by our committee of asset allocation experts from across multi-asset, equity, and fixed income, seek to get ahead of change by identifying attractive near-term asset valuations and using prudent tactical allocation adjustments to take advantage of those potential opportunities.

Experience has been a critical component of our success as well. Our skilled portfolio managers have deep experience—an average of 22 years in the industry and 17 years with T. Rowe Price.⁸ Significantly, many of our analysts go on to become portfolio managers, which we believe creates a strong foundation on behalf of our clients.

⁷ Investment staff as of 12/31/2018. Includes 105 portfolio managers, 24 associate portfolio managers, 165 investment analysts, 44 associate analysts, 14 multi-asset specialists, 9 specialty analysts, 2 strategists, 2 economists, 29 traders, and 18 senior managers.

⁸ As of December 31, 2018.

Important Information

Standardized Performance

Annualized total returns for periods ended March 31, 2019

Fund (Inception Date)	Gross Expense Ratio [†]	1-Year	3-Year	5-Year	10-Year
Retirement 2010 Fund (NAV) (09/30/2002)	0.54%	3.61%	4.81%	4.81%	7.32%
Retirement 2010 Combined Index Portfolio*		4.51	6.31	4.96	8.76
Retirement 2015 Fund (NAV) (02/27/2004)	0.57	3.63	7.22	5.32	10.48
Retirement 2015 Combined Index Portfolio*		4.64	7.16	5.49	9.83
Retirement 2020 Fund (NAV) (09/30/2002)	0.61	3.62	8.24	5.93	11.48
Retirement 2020 Combined Index Portfolio*		4.83	8.18	6.10	10.81
Retirement 2025 Fund (NAV) (02/27/2004)	0.64	3.56	9.05	6.41	12.29
Retirement 2025 Combined Index Portfolio*		4.94	9.02	6.58	11.64
Retirement 2030 Fund (NAV) (09/30/2002)	0.67	3.52	9.79	6.85	12.96
Retirement 2030 Combined Index Portfolio*		4.97	9.79	7.01	12.33
Retirement 2035 Fund (NAV) (02/27/2004)	0.7	3.39	10.33	7.15	13.40
Retirement 2035 Combined Index Portfolio*		5.04	10.42	7.33	12.83
Retirement 2040 Fund (NAV) (09/30/2002)	0.72	3.33	10.80	7.39	13.63
Retirement 2040 Combined Index Portfolio*		5.07	10.93	7.59	13.06
Retirement 2045 Fund (NAV) (05/31/2005)	0.72	3.32	10.96	7.49	13.67
Retirement 2045 Combined Index Portfolio*		5.02	11.09	7.69	13.11
Retirement 2050 Fund (NAV) (12/29/2006)	0.72	3.23	10.95	7.48	13.67
Retirement 2050 Combined Index Portfolio*		5.02	11.09	7.69	13.11
Retirement 2055 Fund (NAV) (12/29/2006)	0.72	3.32	10.95	7.47	13.68
Retirement 2055 Combined Index Portfolio*		5.02	11.09	7.69	13.11

As of fiscal quarter that ended on March 31, 2019.

[†]Expense ratios are as of the most recent prospectus.

*The combined index portfolio, which is the broad-weighted benchmark for each fund, is an unmanaged portfolio composed of the Russell 3000 Index, MSCI All Country World Index ex USA (Net), Bloomberg Barclays U.S. Aggregate Bond Index, and Bloomberg Barclays U.S. 1–5 Year Treasury TIPS Index.

Sources: Bloomberg Index Services Limited; MSCI (see Important Information), and T. Rowe Price. Data analysis by T. Rowe Price.

Current performance may be higher or lower than the quoted past performance, which cannot guarantee future results. Share price, principal value, and return will vary, and you may have a gain or loss when you sell your shares. Average annual total return figures include changes in principal value, reinvested dividends, and capital gain distributions. To obtain the most recent month-end performance, please visit our website or contact a T. Rowe Price representative at 1-800-225-5132.

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Important Information

Call 1-800-225-5132 to request a prospectus or summary prospectus; each includes investment objectives, risks, fees, expenses, and other information you should read and consider carefully before investing.

The principal value of the Retirement Funds is not guaranteed at any time, including at or after the target date, which is the approximate year an investor plans to retire (assumed to be age 65) and likely stop making new investments in the fund. If an investor plans to retire significantly earlier or later than age 65, the funds may not be an appropriate investment even if the investor is retiring on or near the target date. The funds' allocations among a broad range of underlying T. Rowe Price stock and bond funds will change over time. The funds emphasize potential capital appreciation during the early phases of retirement asset accumulation, balance the need for appreciation with the need for income as retirement approaches, and focus on supporting an income stream over a long-term postretirement withdrawal horizon. The funds are not designed for a lump-sum redemption at the target date and do not guarantee a particular level of income. The funds maintain a substantial allocation to equities both prior to and after the target date, which can result in greater volatility over shorter time horizons.

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