Prepared for

County of Sacramento



Annualized (as of 03/31/2025)
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Fund/Index/Average	Expense ratio* (%)	Three months (%)	Year- to-date (%)	One year (%)	Three years (%)	Five years (%)	Ten years (%)	Since Inception (%)
Domestic equity funds								
Vanguard Extended Market Index Fund Institutional Shares (07/07/1997)	0.05	-8.93	-8.93	-0.46	2.69	15.19	7.89	8.56
Spliced Extended Market Index 13		-8.95	-8.95	-0.50	2.53	15.05	7.75	_
Mid-Cap Core Funds Average		-3.89	-3.89	-0.77	4.01	15.57	7.33	_
Vanguard Institutional Index Fund Institutional Plus Shares (07/07/1997)	0.02	-4.28	-4.28	8.23	9.04	18.57	12.49	8.77
S&P 500 Index ³		-4.27	-4.27	8.25	9.06	18.59	12.50	_
Large-Cap Core Funds Average		-4.18	-4.18	5.72	7.99	16.81	10.74	_
Vanguard Institutional Index Fund Institutional Shares (07/31/1990)	0.035	-4.28	-4.28	8.21	9.02	18.56	12.47	10.49
S&P 500 Index ³		-4.27	-4.27	8.25	9.06	18.59	12.50	_
Large-Cap Core Funds Average		-4.18	-4.18	5.72	7.99	16.81	10.74	_

The performance data shown represent past performance. Past performance is no guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at vanguard.com/performance. Some funds assess purchase, redemption, and/or account maintenance fees. The performance data shown do not reflect deduction of these fees. If they did, performance would be lower. Details on these fees and adjusted performance figures can be found in the fund detail section. The performance of an index is not an exact representation of any particular investment, as you cannot invest directly in an index.

For some funds, fees are levied on purchases or redemptions to offset the costs of buying and selling portfolio securities. For others, fees are assessed on redemptions made within certain time periods after a purchase to discourage short-term trading. All purchase or redemption fees are paid directly to the fund to compensate long-term shareholders for the costs of trading activity. Note that one-year performance figures are not fee-adjusted for fees incurred on shares held less than one year.

Effective July 15, 2024, the market price returns are calculated using the official closing price as reported by the ETF's primary exchange. Prior to July 15, 2024, the market price returns were calculated using the midpoint between the bid and ask prices as of the closing time of the New York Stock Exchange (typically 4 p.m., Eastern time). The returns shown do not represent the returns you would receive if you traded shares at other times.

Source: Data derived from Morningstar.

^{*} Expense ratio data are as of the fund's most recent prospectus.

Annualized (as of 03/31/2025)

Fund/Index/Average	Expense ratio* (%)	Three months (%)	Year- to-date (%)	One year (%)	Three years (%)	Five years (%)	Ten years (%)	Since Inception (%)
International funds								
Vanguard Total International Stock Index Fund Institutional Shares (11/29/2010)	0.06	5.51	5.51	6.38	4.67	11.47	5.24	5.22
Spl Total International Stock Index ²		4.55	4.55	5.73	4.21	11.30	5.21	_
International Funds Average		6.38	6.38	5.65	5.23	11.33	5.07	_
Difference due to fair value pricing		0.91	0.91	0.49	0.50	0.23	0.08	_
Balanced funds								
Vanguard Target Retirement 2070 Trust Plus (04/06/2022)	0.055	-0.49	-0.49	6.75	_	_	_	6.82
Target Retirement 2070 Composite Index		-0.88	-0.88	6.55	6.30	14.09	8.71	_
Mixed-Asset Target 2060+ Funds Avg		-0.96	-0.96	5.22	5.81	13.83	_	_
Vanguard Target Retirement 2065 Fund (07/12/2017)	0.08	-0.54	-0.54	6.67	6.24	13.84	_	8.86
Target Retirement 2065 Composite Ix ³		-0.88	-0.88	6.55	6.30	14.09	8.71	_
Mixed-Asset Target 2060+ Funds Avg		-0.96	-0.96	5.22	5.81	13.83	_	_
Vanguard Target Retirement 2065 Trust Plus (07/24/2017)	0.055	-0.52	-0.52	6.72	6.29	13.92	_	9.47
Target Retirement 2065 Composite Ix ³		-0.88	-0.88	6.55	6.30	14.09	8.71	_
Mixed-Asset Target 2060+ Funds Avg		-0.96	-0.96	5.22	5.81	13.83	_	_
Vanguard Target Retirement 2060 Fund (01/19/2012)	0.08	-0.57	-0.57	6.65	6.23	13.83	8.38	9.66
Target Retirement 2060 Composite Ix ³		-0.88	-0.88	6.55	6.30	14.09	8.70	_
Mixed-Asset Target 2060 Funds Avg		-1.01	-1.01	5.13	5.81	13.62	_	_

Source: Data derived from Morningstar.

^{*} Expense ratio data are as of the fund's most recent prospectus.

Annualized (as of 03/31/2025)

Fund/Index/Average	Expense ratio* (%)	Three months (%)	Year- to-date (%)	One year (%)	Three years (%)	Five years (%)	Ten years (%)	Since Inception (%)
Balanced funds (continued)								
Vanguard Target Retirement 2060 Trust Plus (03/23/2012)	0.055	-0.50	-0.50	6.74	6.29	13.93	8.49	9.43
Target Retirement 2060 Composite Ix ³		-0.88	-0.88	6.55	6.30	14.09	8.70	_
Mixed-Asset Target 2060 Funds Avg		-1.01	-1.01	5.13	5.81	13.62	_	_
Vanguard Target Retirement 2055 Fund (08/18/2010)	0.08	-0.56	-0.56	6.67	6.23	13.84	8.38	9.88
Target Retirement 2055 Composite Ix ³		-0.88	-0.88	6.55	6.30	14.09	8.70	_
Mixed-Asset Target 2055 Funds Avg		-0.95	-0.95	5.18	5.77	13.52	7.95	_
Vanguard Target Retirement 2055 Trust Plus (11/30/2011)	0.055	-0.53	-0.53	6.71	6.28	13.91	8.48	10.01
Target Retirement 2055 Composite Ix ³		-0.88	-0.88	6.55	6.30	14.09	8.70	_
Mixed-Asset Target 2055 Funds Avg		-0.95	-0.95	5.18	5.77	13.52	7.95	_
Vanguard Target Retirement 2050 Fund (06/07/2006)	0.08	-0.56	-0.56	6.65	6.22	13.84	8.40	7.75
Target Retirement 2050 Composite Ix ³		-0.88	-0.88	6.55	6.30	14.09	8.70	_
Mixed-Asset Target 2050 Funds Avg		-0.92	-0.92	5.08	5.65	13.28	7.76	_
Vanguard Target Retirement 2050 Trust Plus (08/15/2011)	0.055	-0.53	-0.53	6.73	6.28	13.92	8.49	9.87
Target Retirement 2050 Composite Ix ³		-0.88	-0.88	6.55	6.30	14.09	8.70	_
Mixed-Asset Target 2050 Funds Avg		-0.92	-0.92	5.08	5.65	13.28	7.76	_
Vanguard Target Retirement 2045 Fund (10/27/2003)	0.08	-0.40	-0.40	6.57	5.90	13.56	8.27	8.13
Target Retirement 2045 Composite Ix ³		-0.69	-0.69	6.44	5.97	13.79	8.56	_
Mixed-Asset Target 2045 Funds Avg		-0.72	-0.72	5.22	5.51	13.01	7.70	_

Source: Data derived from Morningstar.

^{*} Expense ratio data are as of the fund's most recent prospectus.

Annualized (as of 03/31/2025)

Fund/Index/Average	Expense ratio* (%)	Three months (%)	Year- to-date (%)	One year (%)	Three years (%)	Five years (%)	Ten years (%)	Since Inception (%)
Balanced funds (continued)								
Vanguard Target Retirement 2045 Trust Plus (08/15/2011)	0.055	-0.36	-0.36	6.60	5.93	13.61	8.34	9.76
Target Retirement 2045 Composite Ix ³		-0.69	-0.69	6.44	5.97	13.79	8.56	
Mixed-Asset Target 2045 Funds Avg		-0.72	-0.72	5.22	5.51	13.01	7.70	_
Vanguard Target Retirement 2040 Fund (06/07/2006)	0.08	-0.21	-0.21	6.42	5.47	12.36	7.80	7.41
Target Retirement 2040 Composite Ix ³		-0.46	-0.46	6.29	5.54	12.59	8.09	_
Mixed-Asset Target 2040 Funds Avg		-0.47	-0.47	5.19	5.18	12.08	7.25	_
Vanguard Target Retirement 2040 Trust Plus (08/15/2011)	0.055	-0.16	-0.16	6.46	5.51	12.43	7.89	9.42
Target Retirement 2040 Composite Ix ³		-0.46	-0.46	6.29	5.54	12.59	8.09	_
Mixed-Asset Target 2040 Funds Avg		-0.47	-0.47	5.19	5.18	12.08	7.25	_
Vanguard Target Retirement 2035 Fund (10/27/2003)	0.08	0.04	0.04	6.26	5.01	11.15	7.26	7.44
Target Retirement 2035 Composite Ix ³		-0.23	-0.23	6.14	5.11	11.40	7.55	_
Mixed-Asset Target 2035 Funds Avg		0.16	0.16	5.33	4.54	10.84	6.79	_
Vanguard Target Retirement 2035 Trust Plus (08/15/2011)	0.055	0.05	0.05	6.29	5.06	11.23	7.36	8.90
Target Retirement 2035 Composite Ix ³		-0.23	-0.23	6.14	5.11	11.40	7.55	_
Mixed-Asset Target 2035 Funds Avg		0.16	0.16	5.33	4.54	10.84	6.79	_
Vanguard Target Retirement 2030 Fund (06/07/2006)	0.08	0.21	0.21	6.03	4.51	9.94	6.70	6.70
Target Retirement 2030 Composite Ix ³		-0.01	-0.01	5.97	4.67	10.20	7.00	_
Mixed-Asset Target 2030 Funds Avg		0.71	0.71	5.32	3.81	9.04	5.89	_

Source: Data derived from Morningstar.

^{*} Expense ratio data are as of the fund's most recent prospectus.

Annualized (as of 03/31/2025)

Expense	Three	Year-	One	Three		Ten	Since
			•	•	•	-	Inception
(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
0.055	0.25	0.25	6.11	4.59	10.02	6.80	8.27
	-0.01	-0.01	5.97	4.67	10.20	7.00	
	0.71	0.71	5.32	3.81	9.04	5.89	
0.08	0.64	0.64	6.10	4.08	8.77	6.16	6.62
	0.44	0.44	6.00	4.24	9.04	6.45	
	1.05	1.05	5.34	3.31	7.52	5.16	
0.055	0.68	0.68	6.14	4.16	8.86	6.26	7.65
	0.44	0.44	6.00	4.24	9.04	6.45	
	1.05	1.05	5.34	3.31	7.52	5.16	
0.08	1.13	1.13	5.97	3.50	7.40	5.47	5.99
	0.96	0.96	5.89	3.61	7.61	5.73	
	1.37	1.37	5.60	3.26	6.88	4.68	
0.055	1.13	1.13	6.00	3.54	7.45	5.55	6.91
	0.96	0.96	5.89	3.61	7.61	5.73	
	1.37	1.37	5.60	3.26	6.88	4.68	
0.08	1.37	1.37	5.82	3.11	5.14	4.15	4.96
	1.21	1.21	5.73	3.18	5.31	4.36	_
	1.35	1.35	5.23	2.82	5.32	3.77	
	0.055 0.08 0.055 0.08	ratio* (%) (%) 0.055	ratio* months (%) (%) 0.055	ratio* (%) months (%) to-date (%) year (%) 0.055 0.25 0.25 6.11 -0.01 -0.01 5.97 0.71 0.71 5.32 0.08 0.64 0.64 6.10 0.44 0.44 6.00 1.05 1.05 5.34 0.055 0.68 0.68 6.14 0.44 0.44 6.00 1.05 1.05 5.34 0.08 1.13 1.13 5.97 0.96 0.96 5.89 1.37 1.37 5.60 0.08 1.37 1.37 5.60 0.08 1.37 1.37 5.82 1.21 1.21 5.73	ratio* (%) months (%) to-date (%) year (%) years (%) 0.055 0.25 0.25 6.11 4.59 -0.01 -0.01 5.97 4.67 0.71 0.71 5.32 3.81 0.08 0.64 0.64 6.10 4.08 0.44 0.44 6.00 4.24 1.05 1.05 5.34 3.31 0.055 0.68 0.68 6.14 4.16 0.44 0.44 6.00 4.24 1.05 1.05 5.34 3.31 0.08 1.13 1.13 5.97 3.50 0.96 0.96 5.89 3.61 1.37 1.37 5.60 3.26 0.055 1.13 1.13 6.00 3.54 0.96 0.96 5.89 3.61 1.37 1.37 5.60 3.26 0.08 1.37 1.37 5.82 3.11 1.21	ratio* (%) months (%) to-date (%) year (%) years (%) years (%) 0.055 0.25 0.25 6.11 4.59 10.02 -0.01 -0.01 5.97 4.67 10.20 0.71 0.71 5.32 3.81 9.04 0.08 0.64 0.64 6.10 4.08 8.77 0.44 0.44 6.00 4.24 9.04 1.05 1.05 5.34 3.31 7.52 0.055 0.68 0.68 6.14 4.16 8.86 0.44 0.44 6.00 4.24 9.04 1.05 1.05 5.34 3.31 7.52 0.08 1.13 1.13 5.97 3.50 7.40 0.96 0.96 5.89 3.61 7.61 1.37 1.37 5.60 3.26 6.88 0.055 1.13 1.13 6.00 3.54 7.45 0.96 0.96 5	ratio* (%) months (%) to-date (%) year (%) years (%) 0.055 0.25 0.25 6.11 4.59 10.02 6.80 6.86 0.055 0.64 0.64 6.10 4.08 8.77 6.16 0.055 0.68 0.68 6.14 4.16 8.86 6.26 0.44 0.44 6.00 4.24 9.04 6.45 1.05 1.05 5.34 3.31 7.52 5.16 0.08 1.13 1.13 5.97 3.50 7.40 5.47 0.96 0.96

Source: Data derived from Morningstar.

^{*} Expense ratio data are as of the fund's most recent prospectus.

Annualized (as of 03/31/2025)

Fund/Index/Average	Expense ratio* (%)	Three months (%)	Year- to-date (%)	One year (%)	Three years (%)	Five years (%)	Ten years (%)	Since Inception (%)
Balanced funds (continued)								
Vanguard Target Retirement Income Trust Plus (08/15/2011)	0.055	1.34	1.34	5.83	3.12	5.17	4.20	4.80
Target Retirement Income Compos. Ix ³		1.21	1.21	5.73	3.18	5.31	4.36	_
Spl Mixed-Asset Target Today FdsAvg ⁴		1.35	1.35	5.23	2.82	5.32	3.77	_
Bond funds								
Vanguard Total Bond Market Index Fund Institutional Shares (09/18/1995)	0.025	2.77	2.77	4.88	0.54	-0.40	1.45	4.23
Spliced Bloomberg USAgg Flt Adjlx ⁵		2.75	2.75	4.87	0.56	-0.36	1.49	_
Spl Interm Inv-Grade Debt Funds Avg ⁶		2.66	2.66	4.99	0.57	0.36	1.47	_

Source: Data derived from Morningstar.

^{*} Expense ratio data are as of the fund's most recent prospectus.

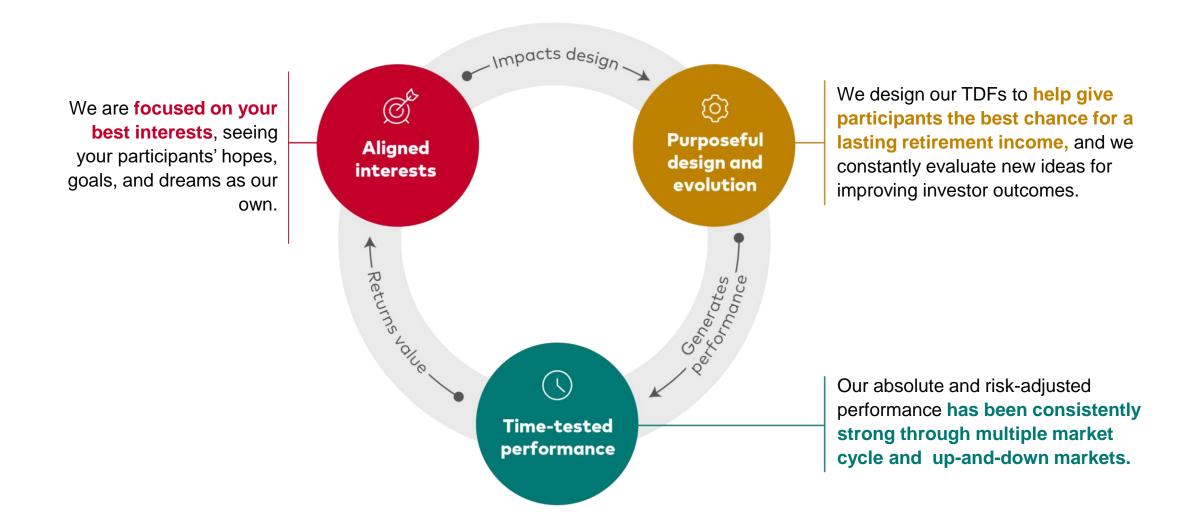
Target Retirement Due Diligence

Agenda

- Vanguard's strategic differentiators
- TDF industry and market overview
- Performance and attribution overview
- Notable updates
- Oversight and management
- Appendix: Detailed performance

Vanguard's strategic differentiators

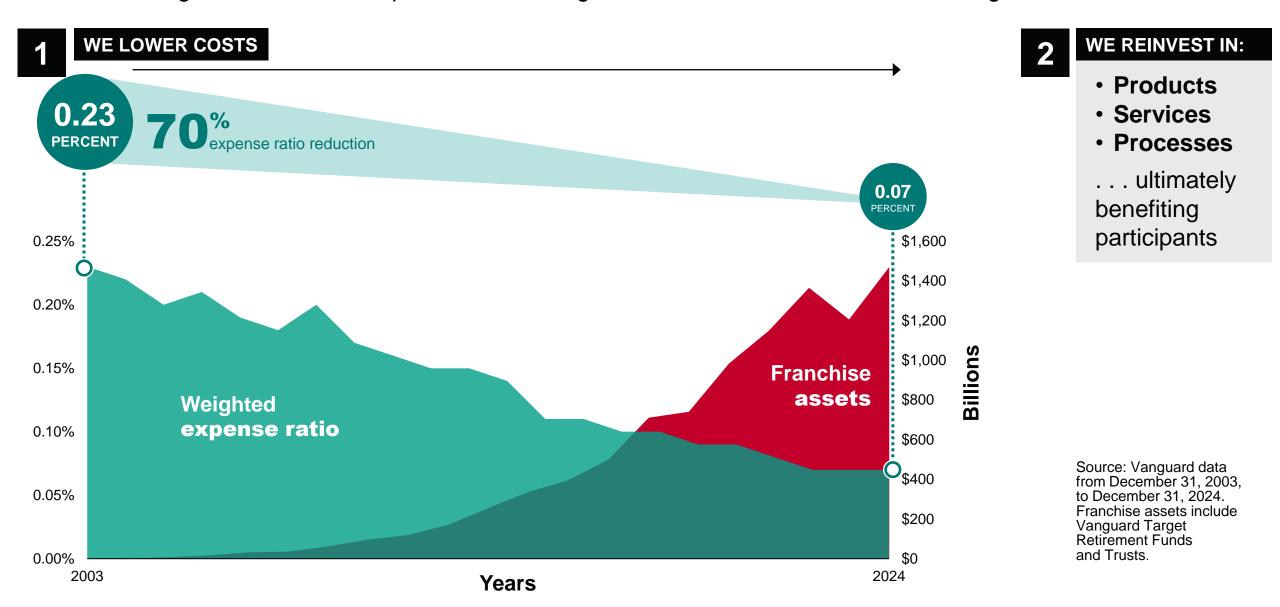
Our key TDF components that power participant success





How we return value to you and your participants

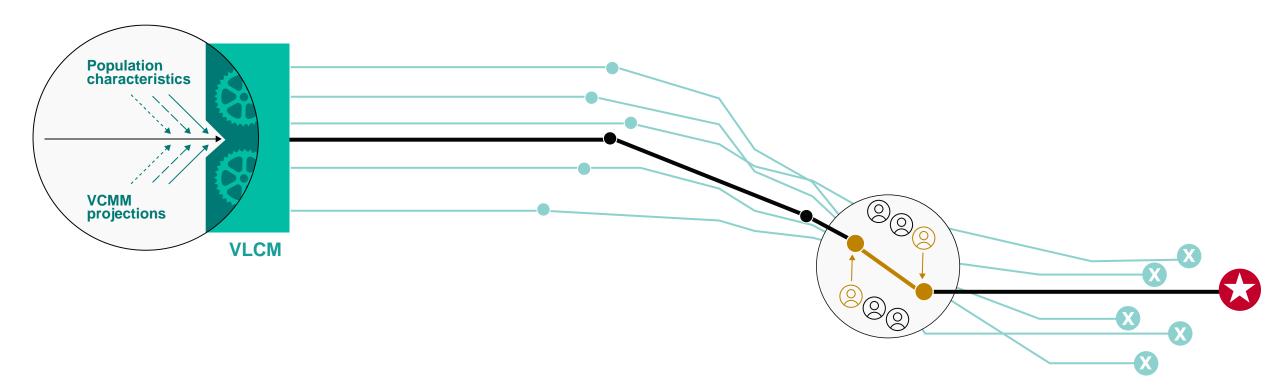
Lowering costs is half the equation of returning value, and the other half is reinvesting in the business.



Slide ID #: S067486



A glide path designed to help improve investor outcomes



Inputs

- Participant population characteristics
- Vanguard Capital
 Markets Model® (VCMM)
 asset-class return
 projections

Constantly evaluated

Due diligence through constant analysis of existing glide path against thousands of simulated glide paths through our Vanguard Life-Cycle Investing Model (VLCM)

Designed for the real world

Practical considerations and observed participant behavior taken into account to meet the needs of real-world TDF investors

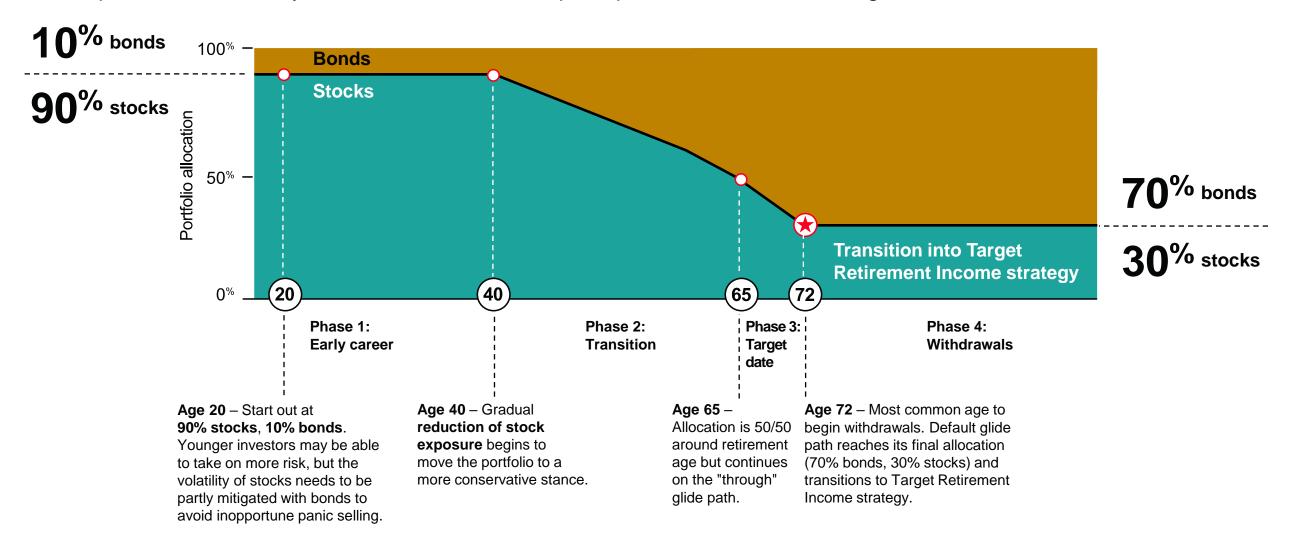
Outputs

- Retirement income sufficiency
- Wealth accumulation
- Portfolio volatility
- Maximum drawdown
- Probability of positive TDF balance at ages 85 and 95



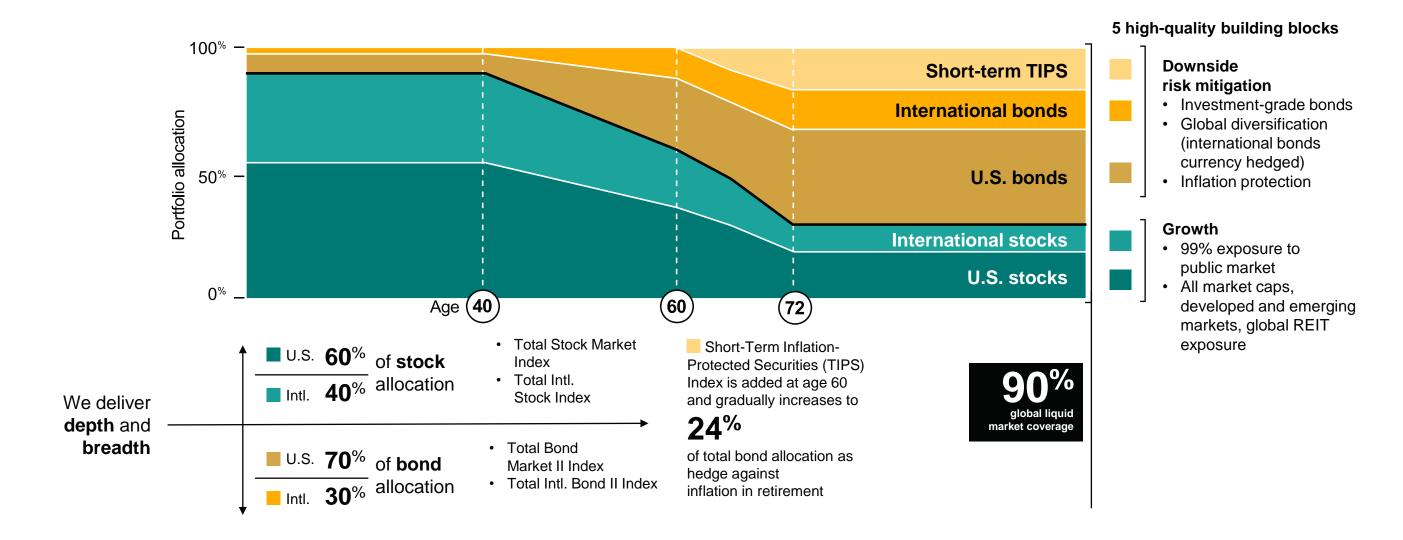
Balancing risk and return at every stage of the investor's life

Glide path determined by time-tested investment principles and behavioral insights

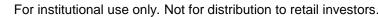




A strategic asset allocation using high-quality building blocks



Sources: FactSet, Fidelity, BlackRock. Stock market measured by FactSet data derived from MSCI US Broad Market Free Float and MSCI ACWI ex USA IMI Indexes. Bond market measured by FactSet data derived from Bloomberg Barclays Global Aggregate ex-USD, U.S. Aggregate Float Adjusted, Global High Yield, and EM Hard Currency Aggregate indexes. Commodities market measured by FactSet data. Data as of December 31, 2024.





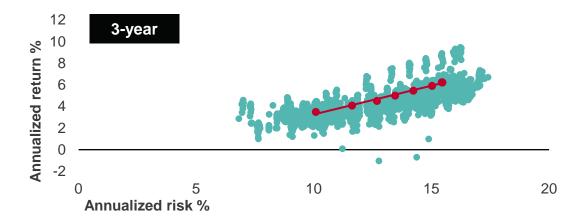


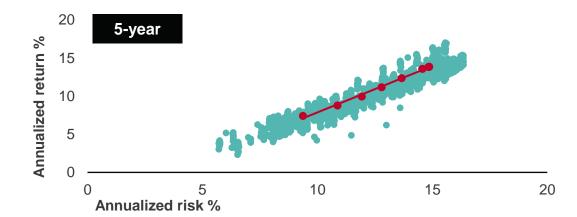
A history of consistently strong risk-adjusted performance

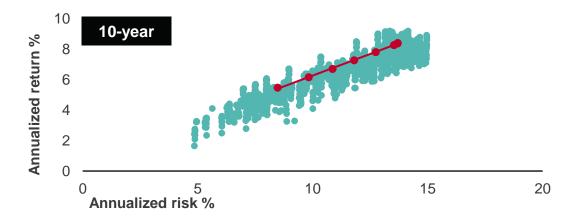
Investors may be in TDFs for decades. Consistent performance across all market environments is critical.

TDF peers in Morningstar universe

Vanguard Target Retirement Funds





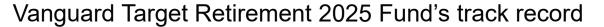


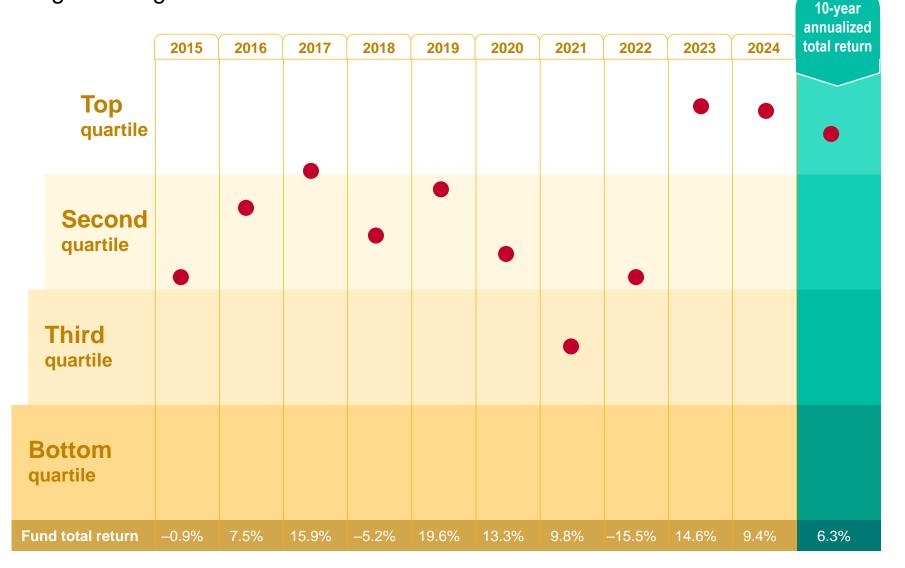
Standard deviation was used for annualized risk. Results will vary for other time periods. All funds in the Morningstar peer group with a minimum 3-, 5-, or 10-year history, respectively, were included in the comparison. There may be other material differences between products that must be considered prior to investing. Note that the competitive performance data shown represent past performance, which is not a guarantee of future results, and that all investments are subject to risks. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For the most recent performance, visit our website at vanguard.com/performance.

Sources: Vanguard and Morningstar, Inc., as of March 31, 2025. Vanguard Investor Shares highlighted.



Relative consistency can lead to long-term top-quartile performance





The annual total return of Vanguard Target Retirement 2025 Fund as ranked in its Morningstar[™] peer-group is indicated in the years 2015 through 2024. Only funds with a minimum 12-month history are included in the annual peer group results. The number of funds in the annual rankings range from 206 in 2015 to 193 in 2024. Only 107 funds with a minimum 10-year history are included in the 10-year annualized total return result. The Morningstar 2025 peer group was chosen because it is larger and has a longer track record than most other TDF vintage peer groups. See Appendix for Vanguard Target Retirement 2025 Fund's 1-, 5-, and 10-year performance data as of March 31, 2025.

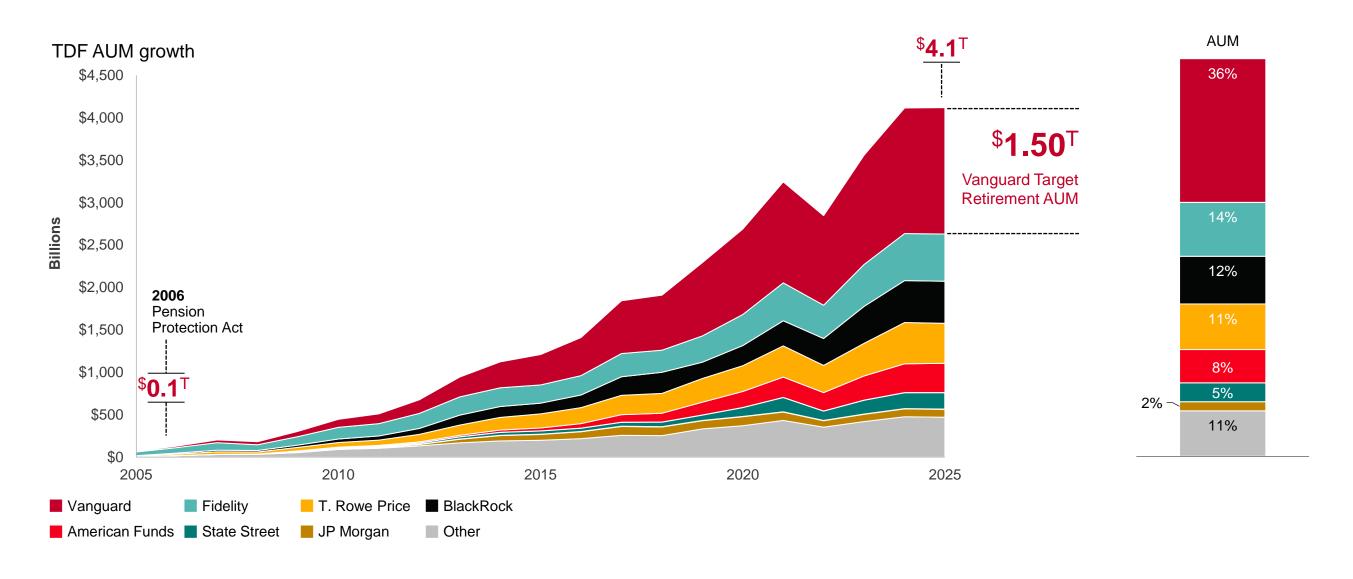
Sources: Vanguard and Morningstar, Inc., as of December 31, 2024.

Note that the competitive performance data shown represent past performance, which is not a guarantee of future results, and that all investments are subject to risks. For the most recent performance, visit our website at vanguard.com/performance. There may be other material differences between products that must be considered before investing.



TDF industry and market overview

Vanguard continues to lead the TDF industry



Sources: TDF assets are based on data from Vanguard, Morningstar, and company public filings, as of March 31, 2025.

Slide ID #: S067491

Market environment

Ranking by returns (%)

2020	2021	2022	2023	2024	2Q 2024	3Q 2024	4Q 2024	1Q 2025
CRSP	REIT	COM	CRSP	CRSP	CRSP	REIT	CRSP	COM
21.0	43.1	16.1	26.0	23.8	3.3	16.1	2.6	8.9
FTSE	COM	CASH	FTSE	REIT	COM	FTSE	CASH	FTSE
11.2	27.1	1.5	15.8	8.8	2.9	8.4	1.2	4.6
AGG	CRSP	STPS	REIT	HYB	STPS	EMB	IAGG	STPS
7.5	25.7	-2.7	13.7	8.2	1.4	6.5	0.2	3.0
HYB	FTSE	HYB	HYB	EMB	CASH	CRSP	HYB	AGG
7.1	8.8	–11.2	13.4	5.9	1.4	6.2	0.2	2.8
EMB	STPS	IAGG	EMB	FTSE	HYB	HYB	STPS	EMB
5.6	5.3	–12.7	10.5	5.5	1.1	5.3	-0.1	2.2
STPS	HYB	AGG	IAGG	CASH	FTSE	AGG	COM	CASH
5.1	5.3	–13.0	8.8	5.5	0.9	5.2	-0.5	1.1
IAGG	CASH	FTSE	AGG	COM	EMB	IAGG	EMB	REIT
4.7	0.1	-16.1	5.5	5.4	0.3	3.9	-2.1	1.1
CASH	AGG	EMB	CASH	STPS	REIT	STPS	AGG	HYB
0.6	–1.5	–17.1	5.3	5.0	0.1	2.5	-3.1	1.0
COM	EMB	CRSP	STPS	IAGG	AGG	CASH	REIT	IAGG
-3.5	-1.8	-19.5	4.5	3.8	0.1	1.4	-6.1	–0.1
REIT	IAGG	REIT	COM	AGG	IAGG	COM	FTSE	CRSP
-7.6	–2.1	-24.5	-7.9	1.3	-0.4	0.7	-7.5	-4.8

Benchmark performance

				Average	annualize	d return
Target R	etirement Fund building blocks	3 months	1 year	3 years	5 years	10 years
CRSP	CRSP U.S. Total Market Index	-4.82	7.09	8.11	18.10	11.75
FTSE	FTSE Global All Cap ex U.S. Index	4.55	5.73	4.21	11.30	5.21
AGG	Bloomberg U.S. Aggregate Bond Index	2.78	4.88	0.52	-0.40	1.46
IAGG	Bloomberg Global Agg ex U.S. Float Adj RIC Cap Index (Hedged)	-0.12	3.58	1.20	0.14	1.84
STPS	Bloomberg U.S. 0–5 Year TIPS Index	3.04	6.98	3.24	4.10	2.84
Other in	dexes					
CASH	3-Month T-Bill	1.10	5.17	4.42	2.68	1.90
НҮВ	Bloomberg U.S. Corporate High Yield Index	1.00	7.69	4.98	7.29	5.01
EMB	Bloomberg USD Emerging Markets Gov RIC Cap Index	2.22	6.93	3.10	3.25	3.10
REIT	MSCI U.S. REIT Index	1.07	10.26	-0.55	11.32	5.28
СОМ	Bloomberg Commodity Index	8.88	12.28	-0.77	14.51	2.77

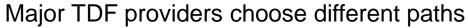
Past performance is no guarantee of future returns. The performance of an index is not an exact representation of any particular investment, as you cannot invest directly in an index.

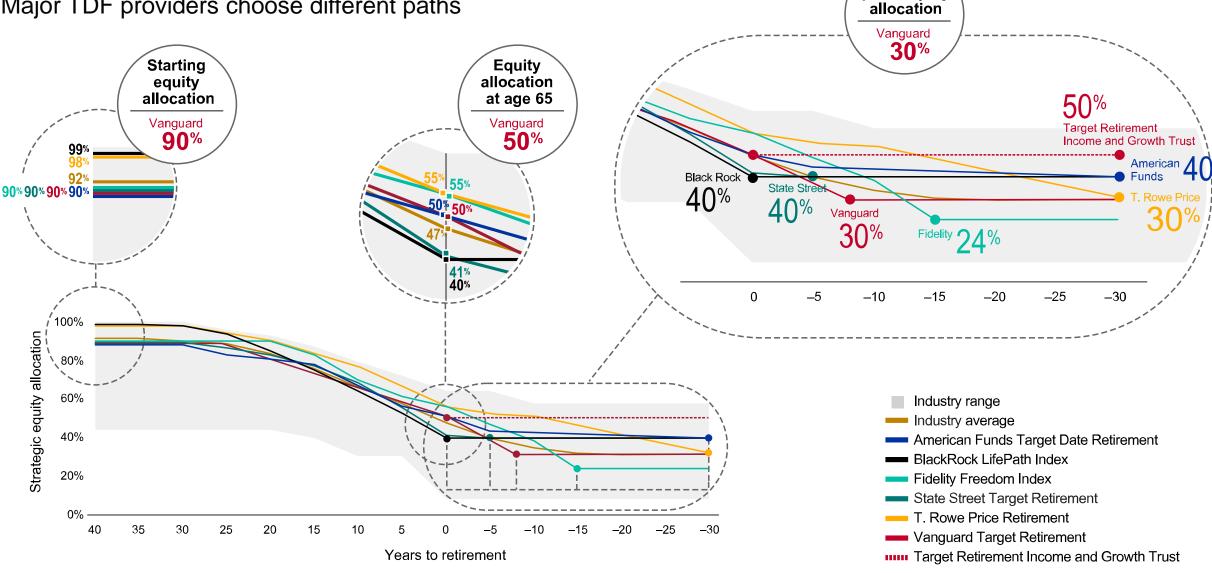
Sources: Vanguard, Bloomberg Live, and Morningstar, as of March 31, 2025.

Note: Beginning 3Q 2021, the benchmark shown for the EMB category changed from Bloomberg Emerging Markets Sovereign Index USD to Bloomberg USD Emerging Markets Gov RIC Cap Index.

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Glide-path comparison





Landing point equity

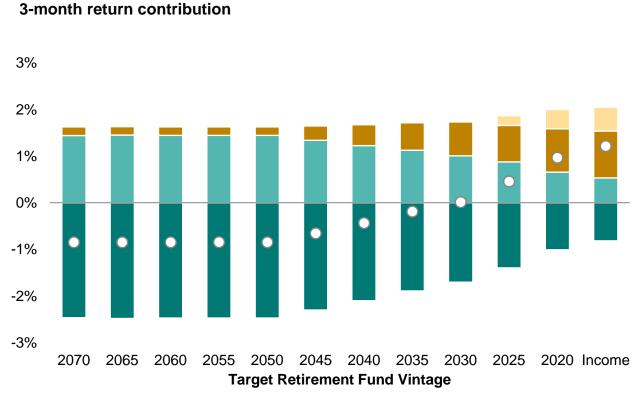
Sources: Vanguard and competitor websites; data as of December 31, 2024; Vanguard calculation for industry average.

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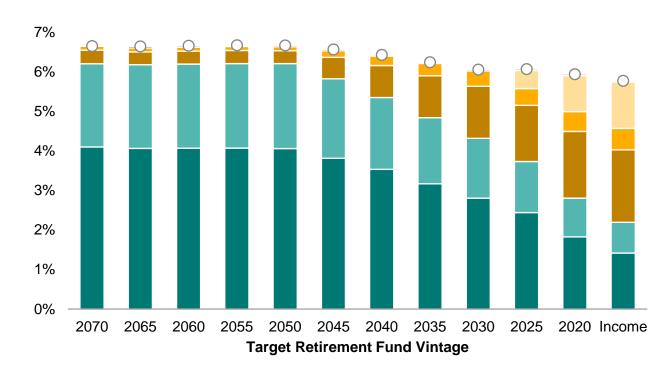
^{*}Vanguard Target Retirement Funds and Trusts reach a 30% equity allocation via Target Retirement Income Fund or Trust. Alternatively, participants can maintain a 50% equity allocation by switching to Vanguard Target Retirement Income and Growth Trust.

Performance and attribution overview

Absolute return contribution



12-month return contribution



- Total Stock Market Index
- Total International Stock Index
- Total return

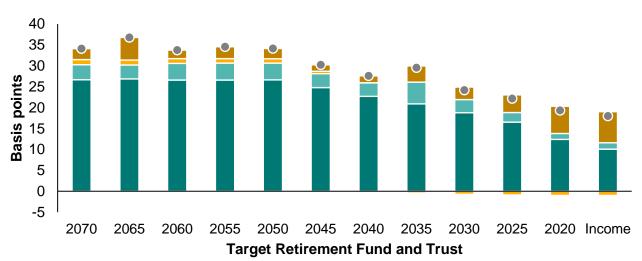
- Total Bond Market II Index
- Total International Bond II Index
- Short-Term Inflation-Protected Securities Index

The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at vanguard.com/performance.

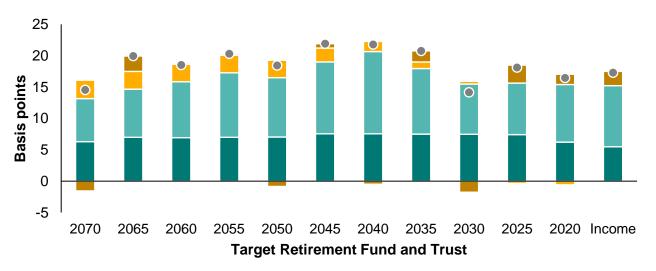
Sources: Vanguard and Morningstar, as of March 31, 2025.

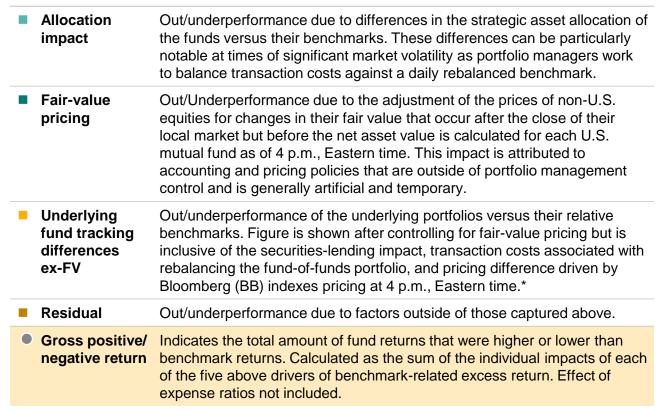
Benchmark relative return attribution

3-month return attribution



12-month return attribution





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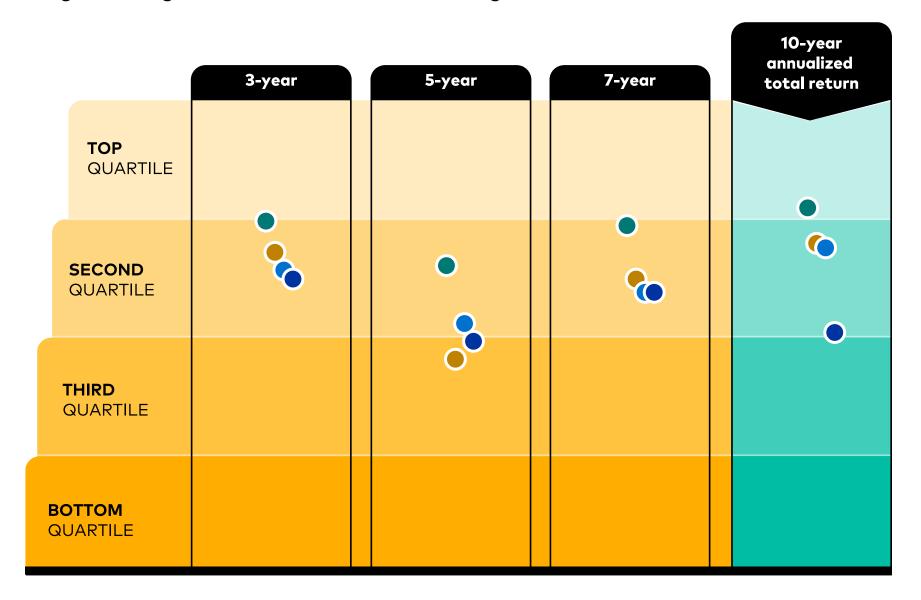
Sources: Vanguard and Morningstar, as of March 31, 2025. See Disclosures slide for composition of composite benchmarks.

V.

^{*} On January 14, 2021, Bloomberg changed its index pricing time from 3 p.m., Eastern time, to 4 p.m., Eastern time. The time change affects the three-year figures.

Strong long-term performance relative to peer group

Vanguard Target Retirement Trust Plus vintages' track record



2025203520452055

The annualized total return of select Vanguard Target Retirement Trusts (TRT) as ranked in its Morningstar[™] peer group is indicated in the 3-, 5-, 7- and 10-year time periods. The number of funds in the annual rankings range from 266 to 388 for 2025; 293 to 509 for 2035; 294 to 508 for 2045; 153 to 455 for 2055. Only investments with a minimum 10-year history are included in the 10-year annualized total return result. See Appendix for Vanguard Target Retirement Trusts' performance data as of March 31, 2025.

Sources: Vanguard and Morningstar, Inc., as of March 31, 2025.

Note that the competitive performance data shown represent past performance, which is not a guarantee of future results, and that all investments are subject to risks. For the most recent performance, visit our website at vanguard.com/performance. There may be other material differences between products that must be considered before investing.

Notable updates

The case for international equities in target-date funds

Given the potential for a multidecade investment timeline and that the primary purpose of a TDF is to help investors prepare for retirement, Vanguard prioritizes a strategic asset allocation that can deliver consistent and reliable results. This approach has been beneficial across multiple market cycles and remains a key investment principle behind Vanguard Target Retirement Funds.

This quarter, we emphasize the disadvantage of chasing outperformance at the expense of portfolio diversification.

View full article



Key takeaways



First look: Enhanced rebalancing policy outcomes

Excess returns for the quarter were positive, primarily driven by fair-value pricing. As anticipated, the allocation impact remained minimal and maintained close alignment to the strategic asset allocation. This outcome highlights the effectiveness of our rebalancing policy in minimizing forced trading and transaction costs, which should ultimately lead to better absolute returns over the long term.



Vanguard Target Retirement Funds shine during market turmoil

Mixed market performance in the first quarter led to a reshuffling of peer-relative results and a broad improvement in Vanguard's peer rankings across the glide path, thanks to our more moderate asset allocation. Amid the market volatility experienced in April 2025, many vintages reached the top quartile YTD and top decile over the 1-year period, demonstrating their resiliency during turbulent times.



The importance of global diversification

In recent years, many have questioned our allocation to international stocks in the Target Retirement Funds, especially given the strong performance of the U.S. stock market. Vanguard has steadfastly committed to global diversification across both equity and fixed income allocations as a best practice in TDF design. This commitment paid off in the first quarter of 2025, with U.S. equities declining by 4.8%, while international equities rose by 5.5%.

Past performance is no guarantee of future returns. The performance of an index is not an exact representation of any particular investment, as you cannot invest directly in an index. Source: Vanguard, as of March 31, 2025.



Committed to ongoing research and thought leadership

Current research priorities

Glide-path and asset allocation

Hybrid annuity target-date funds

Annual glidepath revalidation

Personalization in DC plans: TDFs and advice

Vanguard viewpoints

 Are Vanguard target-date funds equipped to weather market volatility?

2Q 2025

 TDF glide-path essentials: Setting the right starting point

40 2024

 How America is saving with Vanguard Target Retirement Funds

3Q 2024

 Vanguard's approach to target-date fund rebalancing

2Q 2024

Research papers

Advice accounts for differences in saving and spending behaviors

SEPTEMBER 2024

From theory to practice: Guaranteed income and hybrid annuity target-date funds

How America Saves 2024

MAY 2024



Oversight and management

Dedicated expertise at every step of the process

From analyst to CEO, an extensive group of dedicated professionals strive to maximize participants' chances for retirement success

GLOBAL INVESTMENT COMMITTEE (GIC)

- Primary governance committee for all Vanguard products composed of global business leaders, including Vanguard's CEO
- Considers and approves investment matters pertaining to all Vanguard products and provides organizational direction on strategic fund/investment initiatives



STRATEGIC ASSET ALLOCATION COMMITTEE (SAAC)

 Multi-asset governance committee composed of global investment leaders, including Vanguard's global CIO and chief economist • Regularly reviews investment methodology, considers and approves investment strategies, and ensures a consistent approach across product and advice offers



PRODUCT MANAGEMENT

INVESTMENT MANAGEMENT

RISK MANAGEMENT

Multi-Asset Solutions Team

Portfolio Review Department

- Fund health and product oversight
- Product research and new product development
- Competitive analysis and landscape assessment
- Brian Wimmer
 Head of Multi-Asset Solutions

Multi-Asset Portfolio Management Team

Investment Management Group

- Daily implementation of the strategic asset allocation
- Portfolio rebalance policy execution
- Daily cash-flow management

Michael Roach Head of Multi-Asset Portfolio Management

Portfolio Construction Team

Investment Strategy Group

- Vanguard investment model development and maintenance
- Strategic asset allocation methodology
- Sub-asset allocation and portfolio construction research

Roger Aliaga-Díaz Chief Economist (Americas) and Global Head of Portfolio Construction

Multi-Asset Risk Team Investment Management

and Finance Risk

- Investment and operational risk monitoring/analysis
- Ensure adherence to relevant policies/guardrails
- Risk and performance assessments
- Ranga Narayanan
 Head of Multi-Asset Investment Risk



About the SAAC

The Vanguard Strategic Asset
Allocation Committee (SAAC) is a
multi-asset oversight committee
composed of global investment
leaders from across the firm.

The members of the SAAC are responsible for the investment methodology behind our single-fund solutions, including Vanguard LifeStrategy® Funds, Target Retirement Funds, 529 plans, and model portfolios.

The SAAC meets regularly to review its investment methodology, debate investment strategies, and coordinate any changes with Vanguard's Advice Policy Committee, thereby ensuring a consistent approach in our single-fund solutions and advice offers.















Sujatha Srinivasan, Global Head of IMG Risk Management Geoff Parrish, CFA, Principal, Global Head of Fixed Income Indexing (New Member)

Duncan Burns, CFA, Head of Investments, Asia-Pacific, and of Investment Strategy Group, Asia-Pacific







Matthew Brancato, CFA, CPA, Chief Client Officer, Workplace Soutions Qian Wang, Ph.D., Chief Economist, Asia-Pacific, Investment Strategy Group

Dan Reyes, CFA, Head of Portfolio Review Department







Brian Wimmer, CFA, Head of Multi-Asset Solutions (nonvoting member)Joel Dickson, Ph.D., Head of Enterprise Advice MethodologyMichael Roach, CFA, Senior Manager, Head of Multi-Asset Portfolio





Brent Beardsley, Head of Strategy and Development (New Member) **Ian Kresnak**, CFA, Chief of Staff, Investment Strategy Group (Nonvoting Member)

Source: Vanguard.



Questions?

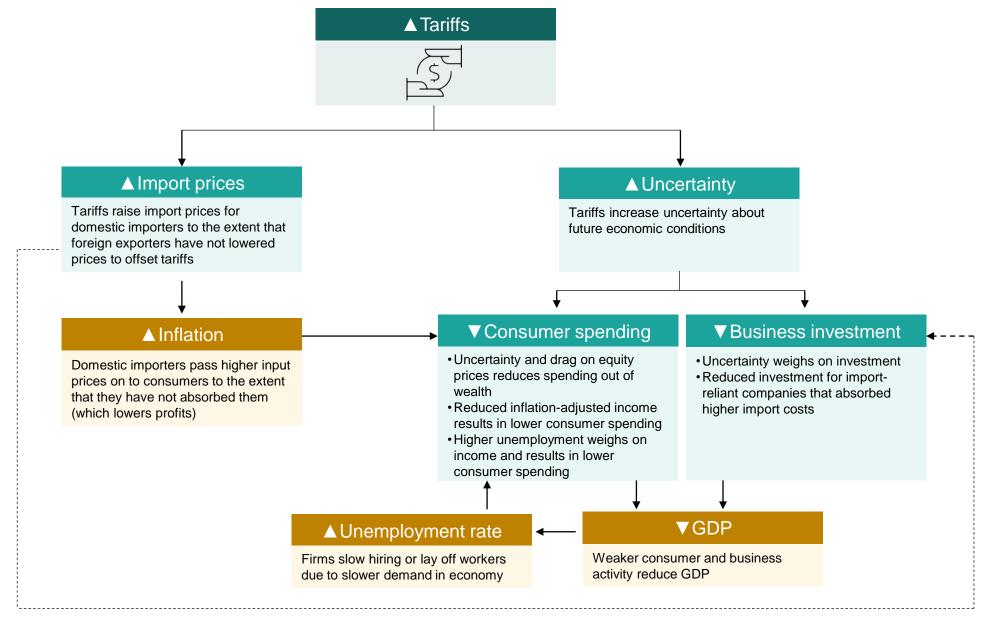


Thank you

for your time and continued confidence.

Global Market Matters Tariff

Anatomy of a tariff shock



Tracking #: 4534264

Slide ID #: S095088

Expiration date: 5/8/2028

10-year asset class return expectations summary

Percentile	U.S. equity	U.S. large-cap	U.S. small-cap	U.S. growth	U.S. value	U.S. REITs	Global ex-U.S. equities
95th	14.5%	14.4%	17.2%	13.5%	16.4%	12.3%	15.2%
75th	9.0%	8.8%	10.9%	7.8%	10.7%	7.4%	10.5%
50th	5.4%	5.2%	6.8%	4.2%	7.0%	4.0%	7.2%
25th	1.9%	1.8%	2.7%	0.7%	3.5%	0.8%	4.2%
5th	-3.1%	-3.3%	-3.2%	-4.6%	-1.7%	-3.7%	-0.3%
Median volatility	16.4%	16.2%	21.0%	17.4%	19.7%	19.3%	20.5%

Percentile	U.S. bonds	U.S. Treasury bonds	U.S. intermediate TIPS	U.S. MBS	U.S. high-yield corporate	Emerging sovereign bonds	Global ex-U.S. bonds hedged	U.S. inflation	U.S. cash
95th	6.1%	6.0%	5.6%	6.1%	7.6%	8.4%	7.0%	3.7%	5.7%
75th	5.2%	5.0%	4.3%	5.4%	6.2%	7.0%	5.7%	2.7%	4.4%
50th	4.5%	4.3%	3.4%	4.9%	5.4%	6.0%	4.8%	2.1%	3.6%
25th	3.9%	3.7%	2.6%	4.2%	4.4%	5.0%	4.0%	1.5%	2.8%
5th	2.9%	2.7%	1.5%	3.2%	3.1%	3.5%	2.7%	0.5%	1.7%
Median volatility	6.4%	6.9%	5.2%	4.2%	10.0%	12.0%	5.1%	1.9%	1.1%

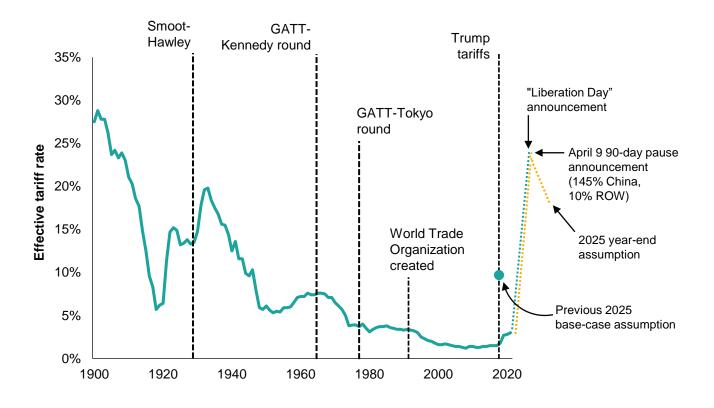
IMPORTANT: The projections and other information generated by the Vanguard Capital Markets Model regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results, and are not guarantees of future results. Distribution of return outcomes from VCMM are derived from 10,000 simulations for each modeled asset class. Simulations as of March 31, 2025. Results from the model may vary with each use and over time. For more information, please see the "Important information" section.

Notes: The forecast corresponds to the distribution of 10,000 VCMM simulations for 10-year annualized nominal returns in USD for the asset classes highlighted here. Median volatility is the 50th percentile of an asset class's distribution of annualized standard deviation of returns. Asset class returns do not take into account management fees and expenses, nor do they reflect the effect of taxes. Returns do reflect reinvestment of dividends and capital gains. Indexes are unmanaged; therefore, direct investment is not possible. See the "Important information" section for further details on asset classes. U.S. inflation is the 10-year average of year-over-year U.S. headline CPI (Consumer Price Index). **Source:** Vanguard calculations, as of March 31, 2025.

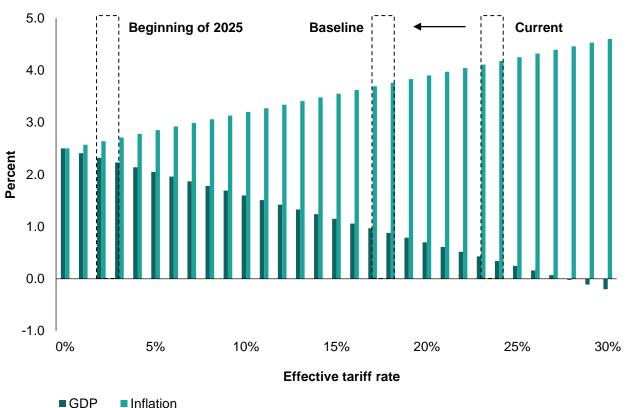
Expiration date: 5/8/2028

Tariff situation holds the key for economic outlook

Effective tariff rate



Guidelines for GDP and inflation impacts



Notes: The chart shows the effective tariff rate throughout history for the United States along with notable tariff and trade agreements. GATT stands for General Agreements on Tariffs and Trade. The sensitivity of a 1 percentage point increase in the effective tariff rate is -0.10% on growth and 0.08% on inflation. **Sources:** Vanguard calculations based on data from the U.S. International Trade Commission.

Notes: Chart shows the estimated impact on U.S. GDP growth and inflation forecasts based on assumed levels of the effective tariff rate.

Sources: Vanguard calculations as of April 10, 2025.

Appendix: Detailed performance

Vanguard Target Retirement Fund and Trust performance

Annualized (as of March 31, 2025)

	Evnance vetic	2	4	2	Evene	10 veere	Since	Inception
	Expense ratio	3 months	1 year	3 years	5 years	10 years	inception	date
Vanguard Target Retirement Income Vintage								
Fund	0.08	1.37	5.82	3.11	5.14	4.15	4.96	10/27/2003
Trust II	0.075	1.33	5.80	3.10	5.15	4.18	4.70	2/29/2008
Target Retirement Income Composite Index ¹	_	1.21	5.73	3.18	5.31	4.36	_	_
Vanguard Target Retirement 2020 Vintage								
Fund	0.08	1.13	5.97	3.50	7.40	5.47	5.99	6/7/2006
Trust II	0.075	1.13	5.99	3.52	7.43	5.52	5.88	2/29/2008
Target Retirement 2020 Composite Index ¹	_	0.96	5.89	3.61	7.61	5.73		_
Vanguard Target Retirement 2025 Vintage								
Fund	0.08	0.64	6.10	4.08	8.77	6.16	6.62	10/27/2003
Trust II	0.075	0.67	6.12	4.13	8.84	6.23	6.34	2/29/2008
Target Retirement 2025 Composite Index ¹	_	0.44	6.00	4.24	9.04	6.45	_	_
Vanguard Target Retirement 2030 Vintage								
Fund	0.08	0.21	6.03	4.51	9.94	6.70	6.70	6/7/2006
Trust II	0.075	0.25	6.09	4.57	9.99	6.77	6.68	2/29/2008
Target Retirement 2030 Composite Index ¹	_	-0.01	5.97	4.67	10.20	7.00	_	_

The performance data shown represent past performance. Past performance is no guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at vanguard.com/performance. Some funds assess purchase, redemption, and/or account maintenance fees. The performance data shown do not reflect deduction of these fees. If they did, performance would be lower. Details on these fees and adjusted performance figures can be found in the fund detail section. The performance of an index is not an exact representation of any particular investment, as you cannot invest directly in an index.

Source: Data derived from Morningstar, Inc.

For some funds, fees are levied on purchases or redemptions to offset the costs of buying and selling portfolio securities. For others, fees are assessed on redemptions made within certain time periods after a purchase to discourage short-term trading. All purchase or redemption fees are paid directly to the fund to compensate long-term shareholders for the costs of trading activity. *Note that one-year performance figures are not fee adjusted for fees incurred on shares held less than one year.*

¹ A blended composite that weights the returns of market indexes for each asset class in proportion with the target weighting of the fund. Detail for each composite index is available upon request.

Vanguard Target Retirement Fund and Trust performance

Annualized (as of March 31, 2025)

	Expense ratio	3 months	1 year	3 years	5 years	10 years	Since inception	Inception date
Vanguard Target Retirement 2035 Vintage	-		<u> </u>	<u> </u>				
Fund	0.08	0.04	6.26	5.01	11.15	7.26	7.44	10/27/2003
Trust II	0.075	0.04	6.26	5.03	11.21	7.34	7.11	2/29/2008
Target Retirement 2035 Composite Index ¹	_	-0.23	6.14	5.11	11.40	7.55	_	_
Vanguard Target Retirement 2040 Vintage								
Fund	0.08	-0.21	6.42	5.47	12.36	7.80	7.41	6/7/2006
Trust II	0.075	-0.16	6.43	5.48	12.41	7.87	7.52	2/29/2008
Target Retirement 2040 Composite Index ¹	_	-0.46	6.29	5.54	12.59	8.09	_	<u> </u>
Vanguard Target Retirement 2045 Vintage								
Fund	0.08	-0.40	6.57	5.90	13.56	8.27	8.13	10/27/2003
Trust II	0.075	-0.36	6.59	5.91	13.59	8.32	7.76	2/29/2008
Target Retirement 2045 Composite Index ¹	_	-0.69	6.44	5.97	13.79	8.56	_	_
Vanguard Target Retirement 2050 Vintage								
Fund	0.08	-0.56	6.65	6.22	13.84	8.40	7.75	6/7/2006
Trust II	0.075	-0.55	6.70	6.26	13.89	8.46	7.86	2/29/2008
Target Retirement 2050 Composite Index ¹	_	-0.88	6.55	6.30	14.09	8.70		

Past performance is not a guarantee of future results.

Source: Data derived from Morningstar, Inc.

For some funds, fees are levied on purchases or redemptions to offset the costs of buying and selling portfolio securities. For others, fees are assessed on redemptions made within certain time periods after a purchase to discourage short-term trading. All purchase or redemption fees are paid directly to the fund to compensate long-term shareholders for the costs of trading activity. *Note that one-year performance figures are not fee-adjusted for fees incurred on shares held less than one year.*

1 A blended composite that weights the returns of market indexes for each asset class in proportion with the target weighting of the fund. Detail for each composite index is available upon request.

Vanguard Target Retirement Fund and Trust performance

Annualized (as of March 31, 2025)

			_					
	Expense ratio	3 months	1 year	3 years	5 years	10 years	Since inception	Inception date
Vanguard Target Retirement 2055 Vintage				- ,	- ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Fund	0.08	-0.56	6.67	6.23	13.84	8.38	9.88	8/18/2010
Trust II	0.075	-0.55	6.68	6.25	13.89	8.45	10.22	8/31/2010
Target Retirement 2055 Composite Index ¹	_	-0.88	6.55	6.30	14.09	8.70	_	
Vanguard Target Retirement 2060 Vintage								
Fund	0.08	-0.57	6.65	6.23	13.83	8.38	9.66	1/19/2012
Trust II	0.075	-0.51	6.72	6.27	13.91	8.47	9.40	3/1/2012
Target Retirement 2060 Composite Index ¹	_	-0.88	6.55	6.30	14.09	8.70	_	_
Vanguard Target Retirement 2065 Vintage								
Fund	0.08	-0.54	6.67	6.24	13.84	_	8.86	7/12/2017
Trust II	0.075	-0.52	6.69	6.27	13.90	_	9.38	7/17/2017
Target Retirement 2065 Composite Index ¹	_	-0.88	6.55	6.30	14.09	8.71	_	_
Vanguard Target Retirement 2070 Vintage								
Fund	0.08	-0.56	6.61	_	_	_	12.52	6/8/2022
Trust II	0.075	-0.49	6.71	_		_	6.81	4/7/2022
Target Retirement 2070 Composite Index ¹	_	-0.88	6.55	6.30	14.09	8.71	_	

Past performance is not a guarantee of future results.

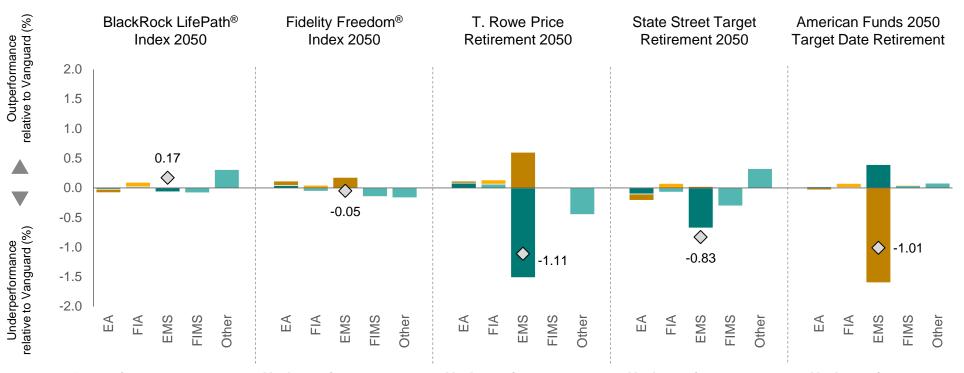
Source: Data derived from Morningstar, Inc.

For some funds, fees are levied on purchases or redemptions to offset the costs of buying and selling portfolio securities. For others, fees are assessed on redemptions made within certain time periods after a purchase to discourage short-term trading. All purchase or redemption fees are paid directly to the fund to compensate long-term shareholders for the costs of trading activity. Note that one-year performance figures are not fee-adjusted for fees incurred on shares held less than one year.

1 A blended composite that weights the returns of market indexes for each asset class in proportion with the target weighting of the fund. Detail for each composite index is available upon request.

12-month return attribution

Top five industry 2050 funds relative to Vanguard (PERCENTAGE)



Outperformance

relative to Vanguard was primarily driven by a higher allocation to U.S. fixed income and the exclusion of international fixed income, partially offset by the higher allocation to U.S. equity.

Underperformance relative to Vanguard was primarily driven by an allocation to long-term

Treasury bonds.

Underperformance relative to Vanguard was primarily driven by an allocation to long-term Treasury bonds.

Underperformance relative to Vanguard was driven by poor security selection within the U.S. equity allocation, specifically a higher allocation to small and mid-cap securities.

Underperformance relative to Vanguard was driven by poor selection within the international equity allocation.

- U.S. equity
- U.S. fixed income
- Foreign equity
- Foreign fixed income
- Total relative return

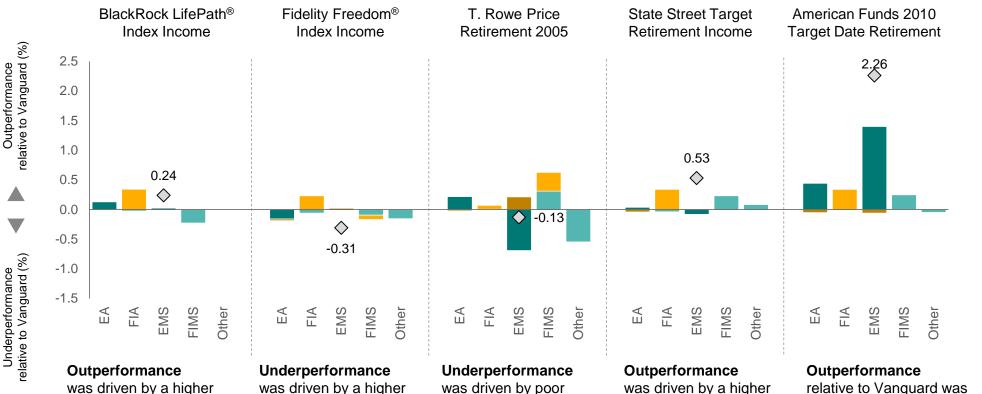
Element	Description
Equity allocation (EA)	Vintage allocation to asset
Fixed income allocation (FIA)	classes and sub-asset allocation to U.S. vs. non-U.S.
Equity manager selection (EMS)	Benchmark construction differences (cap and/or style
Fixed income manager selection (FIMS)	tilts), securities lending, fair- value pricing, building block expense ratios
Other	Compounding effect (residual) due to nondaily holdings availability
Total excess return	The sum of the above relative performance differences between Vanguard Target Retirement Fund and competitors' similar vintage

Past performance is not a guarantee of future results.

Sources: Morningstar and Vanguard calculations; data as of March 31, 2025.

12-month return attribution

Top five industry income (or equivalent) funds* relative to Vanguard (PERCENTAGE)



security selection within

U.S. equity.

allocation to U.S. fixed

income, coupled with

longer duration TIPS

exposure.

driven by strong security

selection in the U.S.

equity sleeve of the portfolio, despite that

asset classes' relative underperformance.

- U.S. equity
- U.S. fixed income
- Foreign equity
- Foreign fixed income
- Total relative return

Element	Description
Equity allocation (EA)	Vintage allocation to asset
Fixed income allocation (FIA)	classes and sub-asset allocation to U.S. vs. non-U.S.
Equity manager selection (EMS)	Benchmark construction differences (cap and/or style
Fixed income manager selection (FIMS)	tilts), securities lending, fair- value pricing, building block expense ratios
Other	Compounding effect (residual) due to nondaily holdings availability
Total excess return	The sum of the above relative performance differences between Vanguard Target Retirement Fund and competitors' similar vintage

Past performance is not a guarantee of future results.

Sources: Morningstar and Vanguard calculations; data as of March 31, 2025.

allocation to U.S. fixed

fixed income.

income coupled with an

exclusion of international

allocation to U.S. fixed

fixed income.

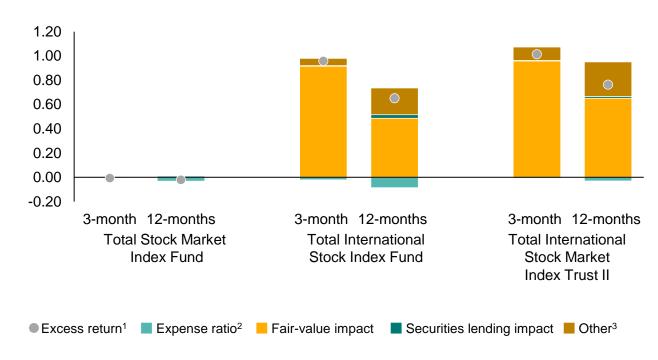
income coupled with an

exclusion of international

^{*}The 2005 fund is used as a proxy for T. Rowe Price, and the 2010 fund is used as a proxy for American Funds, as there is no terminal income fund currently.

Attribution for underlying funds

Equity funds 3- and 12-month return attribution



Numbers may not add due to rounding.

Sources: Vanguard and Morningstar, as of March 31, 2025. See Disclosures slide for composition of composite benchmarks.

On January 14, 2021, Bloomberg changed its index pricing time from 3 p.m., Eastern time, to 4 p.m., Eastern time. The time change affects the three-year figures.

- ¹ Excess return equals fund return minus benchmark return.
- ² Expense ratio (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.
- Other category may include performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences (funds with international investments only), and security pricing differences.

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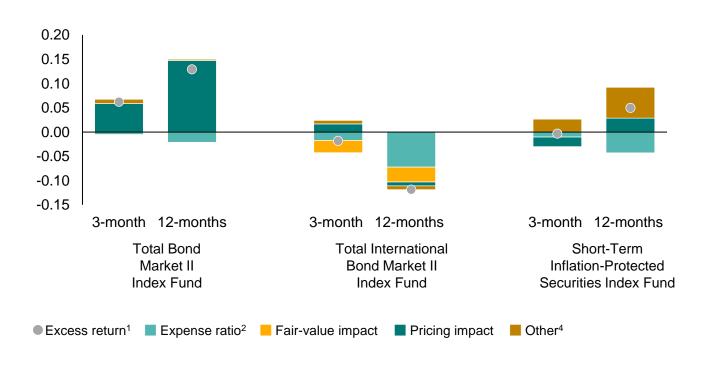
		Fund	Benchmark	Expense	Fair-value	Securities		Excess
Fund name	Attribution	return	return	ratio impact ²	impact	lending impact	Other ³	return ¹
Vanguard Total Stock Market	3-month	-4.826	-4.820	-0.007	0.000	0.002	-0.001	-0.006
Index Fund	12-month	7.067	7.088	-0.032	0.000	0.010	0.002	-0.021
Vanguard Total International	3-month	5.507	4.548	-0.021	0.915	0.006	0.059	0.959
Stock Index Fund	12-month	6.384	5.733	-0.085	0.486	0.029	0.221	0.651
Vanguard Total International	3-month	5.562	4.548	-0.008	0.908	0.004	0.110	1.014
Stock Market Index Trust II*	12-month	6.496	5.733	-0.030	0.494	0.015	0.284	0.763

^{*} Vanguard Total International Stock Market Index Trust II is a building block for the Target Retirement Trusts only.

Expiration date: 7/1/2025

Attribution for underlying funds

Fixed income funds 3- and 12-month return attribution



Numbers may not add due to rounding.

Sources: Vanguard and Morningstar, as of March 31, 2025. See Disclosures slide for composition of composite benchmarks.

On January 14, 2021, Bloomberg changed its index pricing time from 3 p.m., Eastern time, to 4 p.m., Eastern time. The time change affects the three-year figures.

- ¹ Excess return equals fund return minus benchmark return.
- ² Expense ratio (ER) attribution includes the impact of compounding on fund returns over time. Consequently, a fund's ER (above) may appear larger than the published ER.
- ³ Pricing impact includes the difference in performance driven by Bloomberg pricing of benchmarks at 3 p.m., Eastern time, relative to Vanguard's pricing of all funds at 4 p.m., Eastern time, as well as differences in external pricing vendor inputs.
- ⁴ Other category may include performance impacts from the following sources: portfolio manager investment decisions, trading impact, tax withholding differences (funds with international investments only), and security pricing differences.

The performance data shown represent past performance, which is not a guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at vanguard.com/performance.

		Fund	Benchmark	Expense	Fair-value	Pricing		Excess
Fund name	Attribution	return	return	ratio impact ²	impact	impact ³	Other⁴	return ¹
Vanguard Total Bond Market II	3-month	2.814	2.751	-0.005	0.000	0.059	0.009	0.062
Index Fund	12-month	4.998	4.868	-0.021	0.000	0.147	0.003	0.129
Vanguard Total International Bond	3-month	-0.138	-0.120	-0.017	-0.025	0.017	0.007	-0.018
Market II Index Fund	12-month	3.461	3.579	-0.072	-0.030	-0.008	-0.008	-0.119
Vanguard Short-Term Inflation-	3-month	3.041	3.044	-0.010	0.000	-0.020	0.027	-0.003
Protected Securities Index Fund	12-month	7.025	6.975	-0.043	0.000	0.029	0.064	0.050

Expiration date: 7/1/2025

Absolute performance returns

Annualized (as of March 31, 2025)

	Expense ratio	3 months	Year- to-date	1 year	3 year	5 year	10 year	Since inception	Inception date
Vanguard Target Retirement Income Fund	0.08	1.37	1.37	5.82	3.11	5.14	4.15	4.96	10/27/2003
Target Retirement Income Composite Index		1.21	1.21	5.73	3.18	5.31	4.36	_	_
Lipper Target Target Consrv Funds Average		1.35	1.35	5.23	2.82	5.32	3.77	_	_
Fidelity Freedom Income	0.47	2.24	2.24	5.21	2.19	3.82	3.37	4.44	10/17/1996
Fidelity Freedom Index Income Investor	0.12	1.91	1.91	5.51	2.42	3.24	3.22	3.60	10/2/2009
T. Rowe Price Retirement 2005	0.49	1.42	1.42	5.70	3.54	7.26	5.04	5.57	2/27/2004
American Funds 2010 Trgt Date Retire R5	0.34	2.65	2.65	8.08	4.24	7.21	5.35	5.14	2/1/2007
BlackRock LifePath Index Retire K	0.13	1.53	1.53	6.06	2.85	5.95	4.68	5.11	5/31/2011
State Street Target Retirement K	0.26	1.49	1.49	6.35	3.43	6.47	4.62	4.64	9/30/2014
JPMorgan SmartRetirement® Income R5	0.48	1.11	1.11	5.62	3.70	6.26	4.25	4.92	5/15/2006
JPMorgan SmartRetirement® Blend IncomeR5	0.50	1.27	1.27	6.29	3.71	6.27	4.39	4.85	7/2/2012
TIAA-CREF Lifecycle Retire Income Instl	0.56	0.86	0.86	5.05	3.47	6.75	4.91	4.98	11/30/2007

The performance data shown represent past performance. Past performance is no guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the Vanguard fund performance data cited. For performance data current to the most recent month-end, visit our website at vanguard.com/performance. Some funds assess purchase, redemption, and/or account maintenance fees. The performance data shown do not reflect deduction of these fees. If they did, performance would be lower.

Data from Vanguard and Factset.

Absolute performance returns

Annualized (as of March 31, 2025)

	•			•		
1 year	3 year	5 year	10 year	Since inception	Inception date	
6.65	6.22	13.84	8.40	7.75	6/7/2006	
6.55	6.30	14.09	8.70		_	
5.08	5.65	13.28	7.76		_	
5.33	6.25	14.30	8.54	6.95	6/1/2006	
6.60	5.86	13.28	8.40	9.32	10/2/2009	
5.54	6.21	14.29	8.68	7.62	12/29/2006	
5.64	6.38	13.58	9.14	7.91	2/1/2007	
5.55	6.14	14.09	7.85	7.35	7/31/2007	
6.47	6.11	13.68	7.98	9.17	7/2/2012	
3.82	5.93	13.94	8.41	6.83	11/30/2007	
6.82	6.29	14.74	8.70	8.84	5/31/2011	
	0.20					
	6.60 5.54 5.64 5.55 6.47 3.82	6.60 5.86 5.54 6.21 5.64 6.38 5.55 6.14 6.47 6.11 3.82 5.93	6.605.8613.285.546.2114.295.646.3813.585.556.1414.096.476.1113.683.825.9313.94	6.60 5.86 13.28 8.40 5.54 6.21 14.29 8.68 5.64 6.38 13.58 9.14 5.55 6.14 14.09 7.85 6.47 6.11 13.68 7.98 3.82 5.93 13.94 8.41	6.60 5.86 13.28 8.40 9.32 5.54 6.21 14.29 8.68 7.62 5.64 6.38 13.58 9.14 7.91 5.55 6.14 14.09 7.85 7.35 6.47 6.11 13.68 7.98 9.17 3.82 5.93 13.94 8.41 6.83	

The performance data shown represent past performance. Past performance is no guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the Vanguard fund performance data cited. For performance data current to the most recent month-end, visit our website at vanguard.com/performance. Some funds assess purchase, redemption, and/or account maintenance fees. The performance data shown do not reflect deduction of these fees. If they did, performance would be lower.

Data from Vanguard and Factset.

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Standardized performance returns

Annualized (as of March 31, 2025)

	Expense ratio	3 months	Year- to-date	1 year	3 year	5 year	10 year	Since inception	Inception date
Vanguard Total Stock Market Index Fund Institutional Shares	0.03	-4.83	-4.83	7.07	8.11	18.09	11.75	8.84	7/7/1997
Vanguard Total International Stock Index Fund Institutional Shares	0.06	5.51	5.51	6.38	4.67	11.47	5.24	5.22	11/29/2010
Vanguard Total Bond Market Index Fund Institutional Shares	0.025	2.77	2.77	4.88	0.54	-0.40	1.45	4.23	9/18/1995
Vanguard Total International Bond Index Fund Institutional Shares	0.06	-0.16	-0.16	3.44	1.10	0.06	1.71	2.36	5/31/2013
Vanguard Short-Term Inflation-Protected Securities Index Fund Institutional Shares	0.03	3.04	3.04	7.02	3.25	4.09	2.81	2.10	10/17/2012

The performance data shown represent past performance. Past performance is no guarantee of future results. Investment returns and principal value will fluctuate, so investors' shares, when sold, may be worth more or less than their original cost. Current performance may be lower or higher than the Vanguard fund performance data cited. For performance data current to the most recent month-end, visit our website at vanguard.com/performance. Some funds assess purchase, redemption, and/or account maintenance fees. The performance data shown do not reflect deduction of these fees. If they did, performance would be lower.

Data from Vanguard and Factset.

Important disclosures



When used as supplemental sales literature, the Investment Profile must be preceded or accompanied by the fund's current prospectus as well as this disclosure statement. The performance data given represents past performance and should not be considered indicative of future results. Principal value and investment return will fluctuate, so that an investor's shares when redeemed may be worth more or less than the original investment. Fund portfolio statistics change over time. The fund is not FDIC-insured, may lose value and is not guaranteed by a bank or other financial institution.

Performance

Total return reflects performance without adjusting for sales charges or the effects of taxation, but is adjusted to reflect all actual ongoing fund expenses and assumes reinvestment of dividends and capital gains. If adjusted, sales charges would reduce the performance quoted. Standardized Total Return is total return adjusted for sales charges. The sales charge adjusted for may not necessarily be consistent with the prospectus.

The fund's performance is compared with that of an index. The index is an unmanaged portfolio of specified securities and the index does not reflect any initial or ongoing expenses. The Best Fit Index is the index that the fund has the highest correlation with. A fund's portfolio may differ significantly from the securities in the index. The index is chosen by Morningstar.

Morningstar Return

This statistic is a measurement of a fund's excess return over a risk-free rate (the return of the 90-day Treasury bill), after adjusting for all applicable loads and sales charges. In each Morningstar Category, the top 10% of funds earn a High Morningstar Return, the next 22.5% Above Average, the middle 35% Average, the next 22.5% Below Average, and the bottom 10% Low. Morningstar Return is measured for up to three time periods (three-, five-, and 10-years). These separate measures are then weighted and averaged to produce an overall measure for the fund. Funds with less than three years of performance history are not rated.

Morningstar Risk

This statistic evaluates the variations in a fund's monthly returns, with an emphasis on downside variations. In each Morningstar Category, the 10% of funds with the lowest measured risk are described as Low Risk, the next 22.5% Below Average, the middle 35% Average, the next 22.5% Above Average, and the top 10% High. Morningstar Risk is measured for up to three time periods (three-, five-, and 10-years). These separate measures are then weighted and averaged to produce an overall measure for the fund. Funds with less than three years of performance history are not rated.

Risk Measures

R-squared reflects the percentage of a fund's movements that are explained by movements in its benchmark index, showing the degree of correlation between the fund and the benchmark.

Beta is a measure of a fund's sensitivity to market movements. A portfolio with a beta greater than 1 is more volatile than the market, and a portfolio with a beta less than 1 is less volatile than the market.

Alpha measures the difference between a fund's actual returns and its expected performance, given its level of risk (as measured by beta).

The Sharpe ratio uses standard deviation and excess return to determine reward per unit of risk.

Standard deviation is a statistical measure of the volatility of the fund's returns.

Mean represents the annualized three-year geometric return.

Morningstar Style Box™

The Morningstar Style Box reveals a fund's investment strategy as of the date noted on this report. For equity funds the vertical axis shows the market capitalization of the long stocks owned and the horizontal axis shows investment style (value, blend, or growth).

For fixed-income funds, the vertical axis shows the credit quality of the long bonds owned and the horizontal axis shows interest rate sensitivity as measured by a bond's effective duration.

Morningstar seeks credit rating information from fund companies on a periodic basis (e.g., quarterly). In compiling credit rating information Morningstar accepts credit ratings reported by fund companies that have been issued by all Nationally Recognized Statistical Rating Organizations (NRSROs). For a list of all NRSROs, please visit

http://www.sec.gov/divisions/marketreg/ratingagency.htm. Additionally, Morningstar accepts foreign credit ratings from widely recognized or registered rating agencies. If two rating organizations/ agencies have rated a security, fund companies are to report the lower rating; if three or more organizations/agencies have rated a security, fund companies are to report the median rating, and in cases where there are more than two organization/agency ratings and a median rating does not exist, fund companies are to use the lower of the two middle ratings. PLEASE NOTE: Morningstar, Inc. is not itself an NRSRO nor does it issue a credit rating on the fund. An NRSRO or rating agency ratings can change from time-to-time.

Important disclosures



Morningstar Style Box™

For credit quality, Morningstar combines the credit rating information provided by the fund companies with an average default rate calculation to come up with a weighted-average credit quality. The weighted-average credit quality is currently a letter that roughly corresponds to the scale used by a leading NRSRO. Bond funds are assigned a style box placement of "low", "medium", or "high" based on their average credit quality. Funds with a low credit quality are those whose weighted average credit quality is determined to be less than "BBB-"; medium are those less than "AA-", but greater or equal to "BBB-"; and high are those with a weighted-average credit quality of "AA-" or higher. When classifying a bond portfolio, Morningstar first maps the NRSRO credit ratings of the underlying holdings to their respective default rates (as determined by Morningstar's analysis of actual historical default rates). Morningstar then averages these default rates to determine the average default rate for the entire bond fund. Finally, Morningstar maps this average default rate to its corresponding credit rating along a convex curve.

For interest-rate sensitivity, Morningstar obtains from fund companies the average effective duration. Generally, Morningstar classifies a fixed-income fund's interest-rate sensitivity based on the effective duration of the Morningstar Core Bond Index (MCBI), which is currently three years. The classification of Limited will be assigned to those funds whose average effective duration is between 25% to 75% of MCBI's average effective duration; funds whose average effective duration is between 75% to 125% of the MCBI will be classified as Moderate; and those that are at 125% or greater of the average effective duration of the MCBI will be classified as Extensive.

For municipal bond funds, Morningstar also obtains from fund companies the average effective duration. In these cases static breakpoints are utilized. These breakpoints are as follows: (i) Limited: 4.5 years or less; (ii) Moderate: more than 4.5 years but less than 7 years; and (iii) Extensive: more than 7 years. In addition, for non-US taxable and non-US domiciled fixed income funds static duration breakpoints are used: (i) Limited: less than or equal to 3.5 years; (ii) Moderate: greater than 3.5 and less than equal to 6 years; (iii) Extensive: greater than 6 years.

Investment Risk

Foreign Securities Funds/Emerging Market Funds: The investor should note that funds that invest in foreign securities involve special additional risks. These risks include, but are not limited to, currency risk, political risk, and risk associated with varying accounting standards. Investing in emerging markets may accentuate these risks.

Specialty/Sector Funds: The investor should note that funds that invest exclusively in one sector or industry involve additional risks. The lack of industry diversification subjects the investor to increased industry-specific risks. Non-Diversified Funds: The investor should note that funds that invest more of their assets in a single issuer involve additional risks, including share price fluctuations, because of the increased concentration of investments.

Small Cap Funds: The investor should note that funds that invest in stocks of small companies involve additional risks. Smaller companies typically have a higher risk of failure, and are not as well established as larger blue-chip companies. Historically, smaller-company stocks have experienced a greater degree of market volatility than the overall market average and may be less liquid than larger companies.

Mid Cap Funds: The investor should note that funds that invest in companies with market capitalizations below \$10 billion involve additional risks. The securities of these companies may be more volatile and less liquid than the securities of larger companies.

High-Yield Bond Funds: The investor should note that funds that invest in lower-rated debt securities (commonly referred to as junk bonds) involve additional risks because of the lower credit quality of the securities in the portfolio. The investor should be aware of the possible higher level of volatility, and increased risk of default.

Tax-Free Municipal Bond Funds: The investor should note that the income from tax-free municipal bond funds may be subject to state and local taxation and the Alternative Minimum Tax.

Additional Information

For more information on Vanguard or Non-Vanguard funds offered, visit www.vanguard.com or call 800-523-1188 to obtain a prospectus. Investment objectives, risks, charges, expenses, and other important information about a fund are contained in the prospectus; read and consider it carefully before investing.

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Target 2015 Composite Index: An index derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for emerging-markets stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter, as well as the Bloomberg U.S. Treasury Inflation-Protected Securities (TIPS) 0-5 Year Index thereafter; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index; and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI U.S. Broad Market Index through June 2, 2013, and the CRSP U.S. Total Market Index thereafter.

Target 2020, 2030, 2040, and 2050 Composite Indexes: Indexes derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for emerging-markets stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index; and for U.S. stocks, the MSCI U.S. Broad Market Index through June 2, 2013, and the CRSP U.S. Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes.

Target 2025, 2035, and 2045 Composite Indexes: Indexes derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for emerging-markets stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index; and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI U.S. Broad Market Index through June 2, 2013, and the CRSP U.S. Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes.

Target 2055 Composite Index: An index derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for emerging-markets stocks, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Float Adjusted Index; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index beginning June 3, 2013; and for U.S. stocks, the MSCI U.S. Broad Market Index through June 2, 2013, and the CRSP U.S. Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes.

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Target 2060 Composite Index: An index derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for emerging-markets stocks, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Float Adjusted Index; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index beginning June 3, 2013; and for U.S. stocks, the MSCI U.S. Broad Market Index through June 2, 2013, and the CRSP U.S. Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes.

<u>Target 2065 Composite Index</u>: An index derived by applying the fund's target asset allocation to the results of the following benchmarks: the FTSE Global All Cap ex U.S. Index for international stocks, the Bloomberg U.S. Aggregate Float Adjusted Index for U.S. bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index for international bonds, and the CRSP U.S. Total Market Index for U.S. stocks. International stock benchmark returns are adjusted for withholding taxes.

Target Income Composite Index: An index derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for emerging-markets stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex U.S. Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter, as well as the Bloomberg U.S. Treasury Inflation-Protected Securities (TIPS) 0-5 Year Index thereafter; for short-term reserves, the Citigroup Three-Month Treasury Bill Index through June 2, 2013; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index; and for U.S. stocks, the Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005, the MSCI U.S. Broad Market Index through June 2, 2013, and the CRSP U.S. Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes.

Vanguard Short-Term Inflation-Protected Securities Index Fund invests in bonds that are backed by the full faith and credit of the federal government and whose principal is adjusted periodically based on inflation. The fund is subject to interest rate risk because although inflation-indexed bonds seek to provide inflation protection, their prices may decline when interest rates rise and vice versa. The fund's quarterly income distributions are likely to fluctuate considerably more than the income distributions of a typical bond fund. Income fluctuations associated with changes in interest rates are expected to be low; however, income fluctuations associated with changes in inflation are expected to be high. Overall, investors can expect income fluctuations to be high for the fund.

For more information about any fund, visit institutional.vanguard.com or call 866-499-8473 to obtain a prospectus or, if available, a summary prospectus. Investment objectives, risks, charges, expenses, and other important information are contained in the prospectus; read and consider it carefully before investing.

Vanguard ETF® Shares are not redeemable with the issuing fund other than in very large aggregations worth millions of dollars. Instead, investors must buy or sell Vanguard ETF Shares in the secondary market and hold those shares in a brokerage account. In doing so, the investor may incur brokerage commissions and may pay more than net asset value when buying and receive less than net asset value when selling.

Mutual funds and all investments are subject to risk, including the possible loss of the money you invest. Prices of mid- and small-cap stocks often fluctuate more than those of large-company stocks. Investments in stocks or bonds issued by non-U.S. companies are subject to risks including country/regional risk and currency risk. These risks are especially high in emerging markets. Funds that concentrate on a relatively narrow sector face the risk of higher share-price volatility. It is possible that tax-managed funds will not meet their objective of being tax-efficient. Because company stock funds concentrate on a single stock, they are considered riskier than diversified stock funds.

Investments in bond funds are subject to the risk that an issuer will fail to make payments on time and that bond prices will decline because of rising interest rates or negative perceptions of an issuer's ability to make payments. High-yield bonds generally have medium- and lower-range credit quality ratings and are therefore subject to a higher level of credit risk than bonds with higher credit quality ratings. Although the income from a municipal bond fund is exempt from federal tax, you may owe taxes on any capital gains realized through the fund's trading or through your own redemption of shares. For some investors, a portion of the fund's income may be subject to state and local taxes, as well as to the federal Alternative Minimum Tax. Diversification does not ensure a profit or protect against a loss. There is no guarantee that any particular asset allocation or mix of funds will meet your investment objectives or provide you with a given level of income.

While U.S. Treasury or government agency securities provide substantial protection against credit risk, they do not protect investors against price changes due to changing interest rates. Unlike stocks and bonds, U.S. Treasury bills are guaranteed as to the timely payment of principal and interest.

Investments in Target Retirement Funds and Trusts are subject to the risks of their underlying funds. The year in the fund or trust name refers to the approximate year (the target date) when an investor in the fund or trust would retire and leave the workforce. The fund/trust will gradually shift its emphasis from more aggressive investments to more conservative ones based on its target date. The Income Trust/Fund and Income and Growth Trust have fixed investment allocations and are designed for investors who are already retired. An investment in a Target Retirement Fund or Trust is not guaranteed at any time, including on or after the target date.

Vanguard is responsible only for selecting the underlying funds and periodically rebalancing the holdings of target-date investments. The asset allocations Vanguard has selected for the Target Retirement Funds are based on our investment experience and are geared to the average investor. Investors should regularly check the asset mix of the option they choose to ensure it is appropriate for their current situation.

Vanguard collective trusts are not mutual funds. They are collective trusts available only to tax-qualified plans and their eligible participants. Investment objectives, risks, charges, expenses, and other important information should be considered carefully before investing. The collective trust mandates are managed by Vanguard Fiduciary Trust Company, a wholly owned subsidiary of The Vanguard Group, Inc.

A stable value investment is neither insured nor guaranteed by the U.S. government. There is no assurance that the investment will be able to maintain a stable net asset value, and it is possible to lose money in such an investment.

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References

- 1 Dow Jones U.S. Completion Total Stk Mkt Idx (Full Cap) through June 17, 2005; S&P Transitional Completion Idx through Sep 16, 2005; S&P Completion Index thereafter.
- 2 Total International Composite Index through August 31, 2006; MSCI EAFE + Emerging Markets Index through December 15, 2010; MSCI ACWI ex USA IMI Index through June 2, 2013; and FTSE Global All Cap ex US Index thereafter. Benchmark returns are adjusted for withholding taxes.
- **3** A blended composite that weights the returns of market indexes for each asset class in proportion with the target weighting of the fund. Detail for each composite index is available upon request.
- 4 Mixed-Asset Target Consrv Funds Avg through 6/30/2012; Mixed-Asset Target Today Funds Avg thereafter.
- **5** Bloomberg U.S. Aggregate Bond Index through December 31, 2009; Bloomberg U.S. Aggregate Float Adjusted Index thereafter.
- 6 Intermediate US Gov't Funds Average through December 31, 2001; Interm Inv-Grade Debt Funds Avg through August 31, 2013; Core Bond Funds Average thereafter.