



MPI Target Date Fund Report

Plan Name
TDF Report

Advisor

Date
March 13, 2023




Target Date Families:

BlackRock LifePath Index K
Fidelity Freedom Index Series Inv
T. Rowe Price Retirement Series
Vanguard Target Retirement Series Inv

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Suitability Summary Review

Question	Recommendation	Description	BlackRock LifePath Index	Fidelity Freedom Index Series	T. Rowe Price Retirement Series	Vanguard Target Retirement Series
 Active vs. Passive	Active, Blend, or Passive Strategies	There is no preference for active, passive or blended management	Suitable	Suitable	Suitable	Suitable
 Open vs. Proprietary	Mix of Proprietary and Non-Proprietary Strategies	The preference is for a mix of organizations to handle the underlying strategies	Less Suitable	Less Suitable	Less Suitable	Less Suitable
 Non-Traditional Assets Exposure	Top 50% of peer group	Suitable strategies employ non-traditional assets more than the industry standard	Suitable	Less Suitable	Less Suitable	Less Suitable
 To vs. Through	Glide Path Type: Through Landing Point: 5 to 15 years after retirement	Portfolio should continue to reduce equity exposure into the participant's retirement, holding constant between ages 70-80	Less Suitable	Suitable	Less Suitable	Suitable
 Glide Path Shape	Before Retirement Exposures Longevity: Moderate/high Inflation: No preference	Prior to retirement, growth assets should be more aggressive than the majority while inflation assets are not important	Suitable	Less Suitable	Less Suitable	Less Suitable
	Near Retirement Exposures Longevity: Moderate/high Inflation: Moderately low to high	Near retirement, growth assets should be more aggressive than the majority while inflation assets should be considerable				
	In Retirement Exposures Longevity: Moderate exposure Inflation: Moderate/high	In retirement, growth assets should be consistent with the industry norm while inflation assets should be more aggressive than the majority				

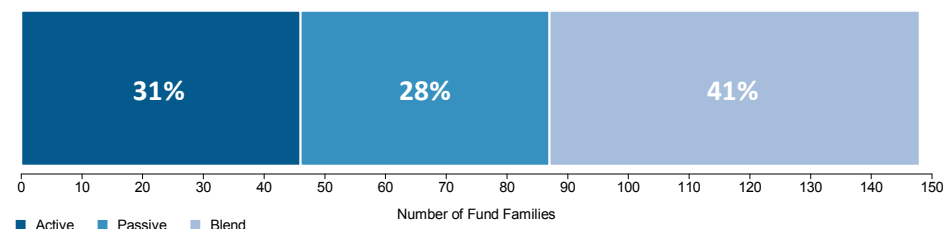


Active vs. Passive Suitability

Suitability Explanation for Active vs. Passive

Active or Passive suitability determines whether the target date fund manager should have an active or passive investment strategy. Active strategies are when managers actively try to outperform a benchmark by adjusting their holdings to exploit profitable opportunities. Passive strategies are strategies where managers invest in a similar mix of assets as a benchmark/index in order to replicate the results of that index. Blend strategies seek to track the performance of a benchmark/index in addition to earning positive excess returns. Based on the questionnaire that was filled out, active, blend, or passive strategies are best suited for you. This was based on the sponsor's view of how likely active management is to improve investment outcomes.

TDF UNIVERSE BREAKDOWN: ACTIVE vs. PASSIVE



Active vs. Passive Suitability

► Suitable Type Active, Blend, or Passive Strategies

BlackRock LifePath Index	Passive
Fidelity Freedom Index Series	Passive
T. Rowe Price Retirement Series	Active
Vanguard Target Retirement Series	Passive

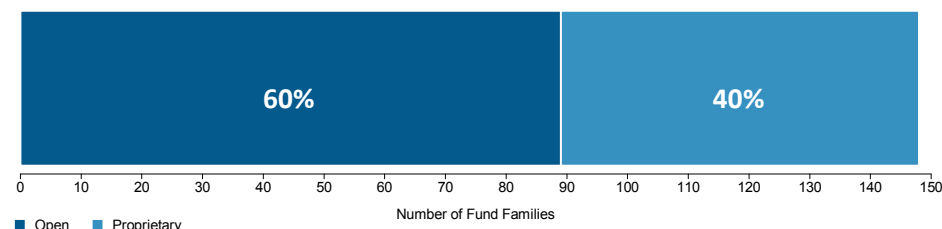


Open vs. Proprietary Suitability

Suitability Explanation for Open vs. Proprietary

Open or Proprietary suitability determines whether the assets that the target date funds invest in should be managed by the same organization that manages the target date fund itself or by multiple organizations. Based on the questionnaire that was filled out, the sponsor's preference is for multiple organizations to handle the underlying strategies, based on each firm's core competency.

TDF UNIVERSE BREAKDOWN: OPEN vs. PROPRIETARY



Open vs. Proprietary Suitability

► Suitable Type Open Strategies

BlackRock LifePath Index	Proprietary
Fidelity Freedom Index Series	Proprietary
T. Rowe Price Retirement Series	Proprietary
Vanguard Target Retirement Series	Proprietary

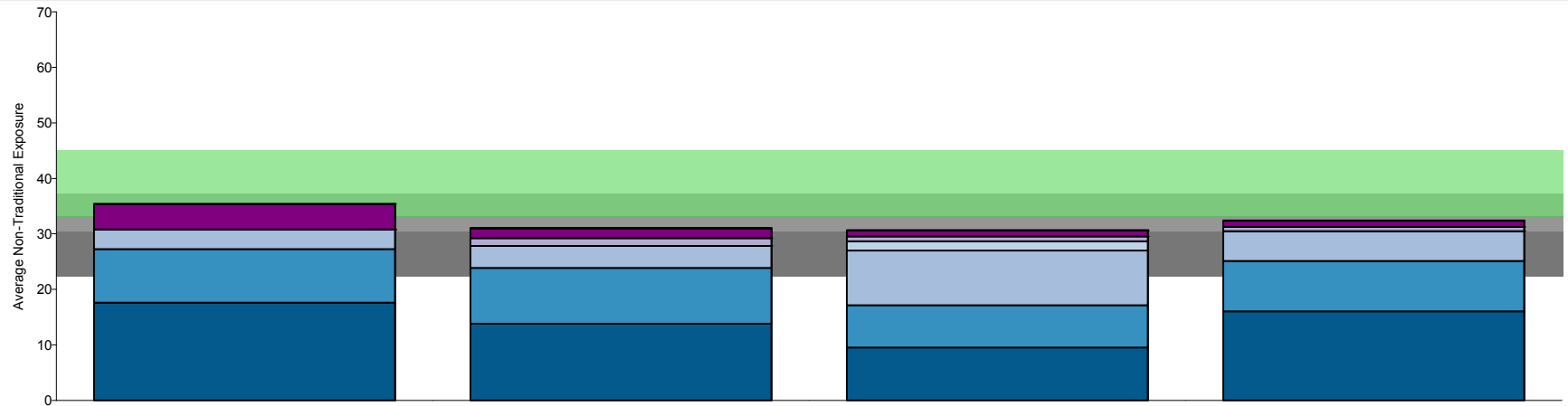


Non-Traditional Asset Class Breakdown

Suitability Explanation for Non-Traditional Assets

Non-traditional asset class suitability determines the degree to which the fund should be exposed to non-traditional assets. Non-traditional assets are composed of indices represented in the table below. These are returns-based style exposures and not based on actual fund holdings. It was the goal of the questionnaire to assess the sophistication of the participant base, the degree to which the sponsor thought these assets might be appropriate, and the sponsor's opinion (if any) of the diversifying benefit of these assets. Based on those questions, the suitable strategies employ non-traditional assets more than the industry standard.

AVERAGE NON-TRADITIONAL ASSETS EXPOSURE



Suitable Range: 1st or 2nd Quartile	BlackRock LifePath Index	Fidelity Freedom Index Series	T. Rowe Price Retirement Series	Vanguard Target Retirement Series
Developed Foreign Equity	17.64	13.82	9.53	16.03
Emerging Markets Equity	9.60	10.07	7.60	9.11
Developed Foreign Debt	3.54	3.96	9.89	5.33
Emerging Markets Debt	0.00	0.00	1.67	0.00
TIPS	0.02	1.37	0.88	0.81
High Yield	0.00	0.01	0.00	0.00
REITs	4.58	1.74	1.07	1.11
Commodities	0.01	0.07	0.01	0.03
Non-Trad. Exposure Total	35.37	31.03	30.65	32.42
Non-Trad. Exposure Rank	2nd Quartile	3rd Quartile	4th Quartile	3rd Quartile

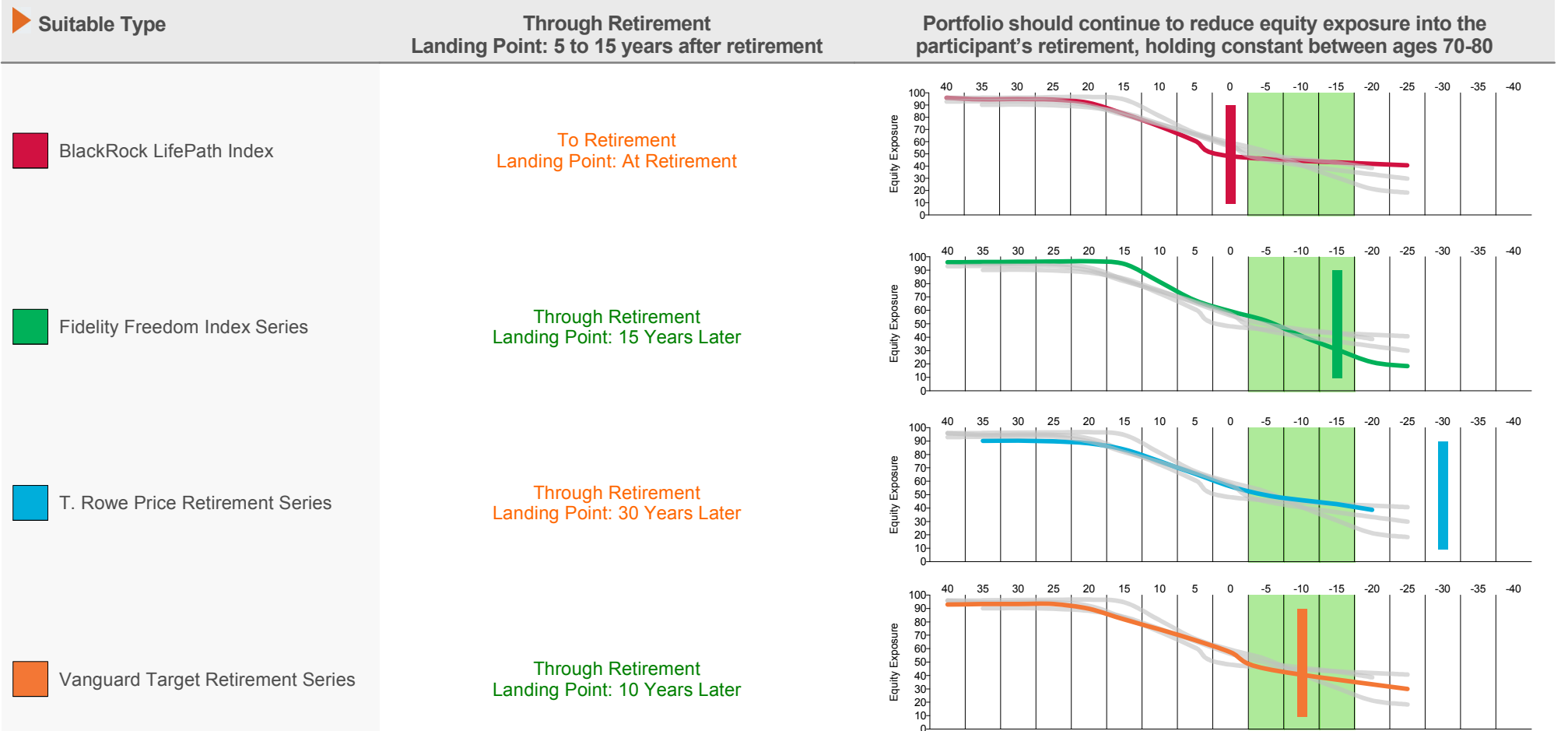
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Landing Point Suitability

Suitability Explanation for To vs. Through Funds and Landing Point

Landing point suitability determines where in a retiree's lifetime the lowest equity allocation should occur. In some cases, this can be before retirement (defined as age 65) or up to retirement ("To Funds") and the retiree's account moves to the Target Date suite's Income fund at that point. In other cases, the landing point might be well beyond or through retirement ("Through Funds") and the equity allocation continues to get lower until the specified "Landing Point". The questionnaire assesses participant behavior and sponsor objective through multiple questions. Based on the answers to those questions, the TDF sponsor believes the portfolio should continue to reduce equity exposure into the participant's retirement, holding constant between ages 70-80.



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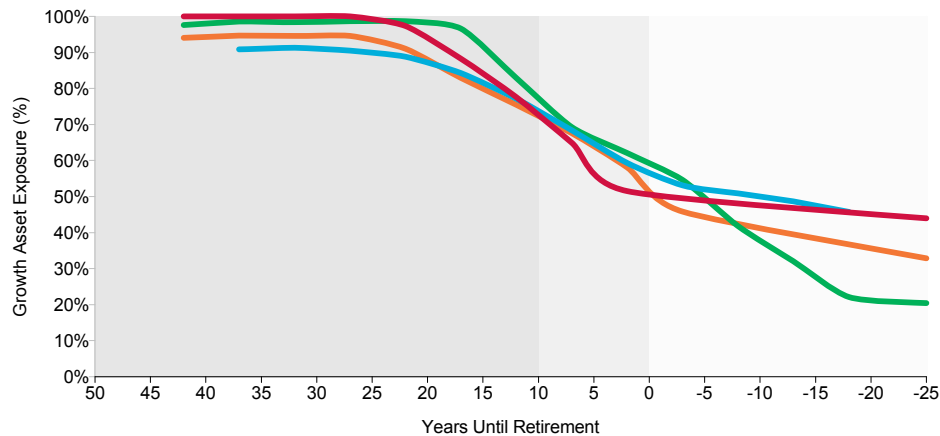
Growth Asset Suitability

Suitability Explanation for Growth Assets

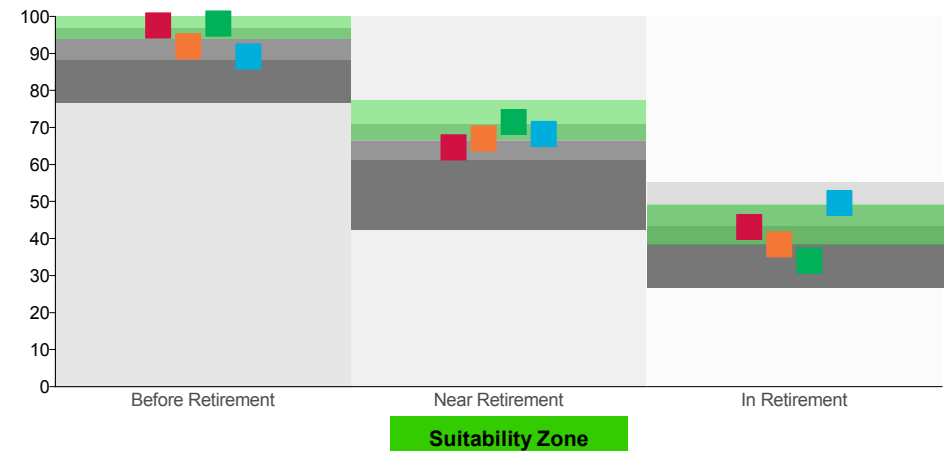
Growth assets are assets that manage Longevity risk, which is the risk of outliving your money. The purpose of these assets, as its name implies, is to grow wealth. The asset classes that compose growth assets are made up of US Equity (Large, Mid, and Small), Non-US Equity (Emerging and Developed), High Yield Fixed Income, Emerging Market Debt, Commodities, and REITs. There are three distinct stages where we look at the percentage of growth assets that should be in a TDF that is suitable for the participant; Before-retirement (<55), Near-retirement (55-65), and In-Retirement (>65). To determine the suitable exposure that a TDF has to these assets, the questionnaire assesses the sponsor's objective, whether it is to minimize longevity risk or volatility risk during each of these stages (longevity risk and volatility risk are reciprocals of each other, so increasing one directly decreases the other by the same amount).

Based on your answers, prior to age 55, the TDFs growth assets should be moderately aggressive, more so than the majority of peers. As the participant nears age 65, growth assets should be moderately aggressive, more so than the majority of peers. Finally, while the participant is above age 65, growth assets should be consistent with the majority of the industry.

GROWTH ASSETS GLIDE PATH



AVERAGE GROWTH ASSETS PER RETIREMENT REGION



	Before Retirement Zone	Near Retirement Zone	In Retirement Zone
Suitable Range	1st or 2nd Quartile	1st or 2nd Quartile	2nd or 3rd Quartile
BlackRock LifePath Index	1st Quartile	3rd Quartile	3rd Quartile
Fidelity Freedom Index Series	1st Quartile	2nd Quartile	4th Quartile
T. Rowe Price Retirement Series	3rd Quartile	2nd Quartile	1st Quartile
Vanguard Target Retirement Series	3rd Quartile	2nd Quartile	4th Quartile

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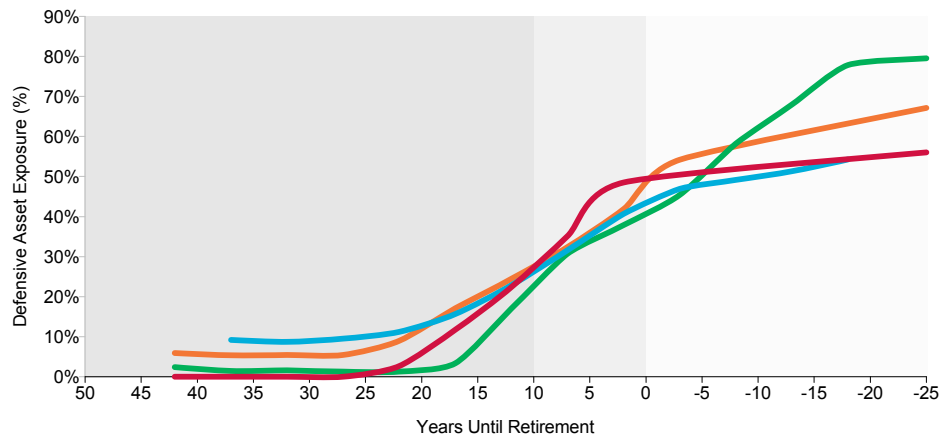


Defensive Asset Suitability

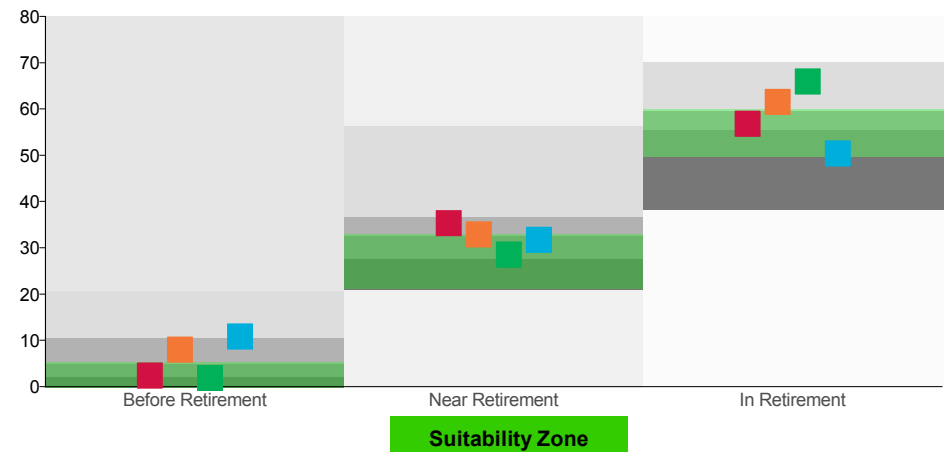
Suitability Explanation for Defensive Assets

Defensive assets are assets that manage Volatility risk, which is the risk of losing value due to market volatility. The purpose of these assets is to provide some insulation from poor market conditions and preserve the value of the portfolio. The asset classes that compose defensive assets are made up of Cash Equivalents, Developed Foreign Debt, and US Fixed Income (Core US Fixed Income, Short Term Corporate, TIPS, and Short-Term TIPS). There are three distinct stages where we look at the percentage of volatility assets that should be in a TDF that is suitable for the participant; Before-retirement (<55), Near-retirement (55-65), and In-Retirement (>65). To determine the suitable exposure that a TDF has to these assets, the questionnaire assesses the sponsor's objective, whether it is to minimize longevity risk or volatility risk during each of these stages (longevity risk and volatility risk are reciprocals of each other; increasing one directly decreases the other). Based on your answers, prior to age 55, the TDFs volatility assets should be conservative, more so than the majority of peers. As the participant nears age 65, volatility assets should be conservative, more so than the majority of peers. Finally, while the participant is above 65, volatility assets should be consistent with the majority of the industry.

DEFENSIVE ASSETS GLIDE PATH



AVERAGE DEFENSIVE ASSETS PER RETIREMENT REGION



	Before Retirement Zone	Near Retirement Zone	In Retirement Zone
Suitable Range	3rd or 4th Quartile	3rd or 4th Quartile	2nd or 3rd Quartile
BlackRock LifePath Index	4th Quartile	2nd Quartile	2nd Quartile
Fidelity Freedom Index Series	4th Quartile	3rd Quartile	1st Quartile
T. Rowe Price Retirement Series	2nd Quartile	3rd Quartile	3rd Quartile
Vanguard Target Retirement Series	2nd Quartile	3rd Quartile	1st Quartile

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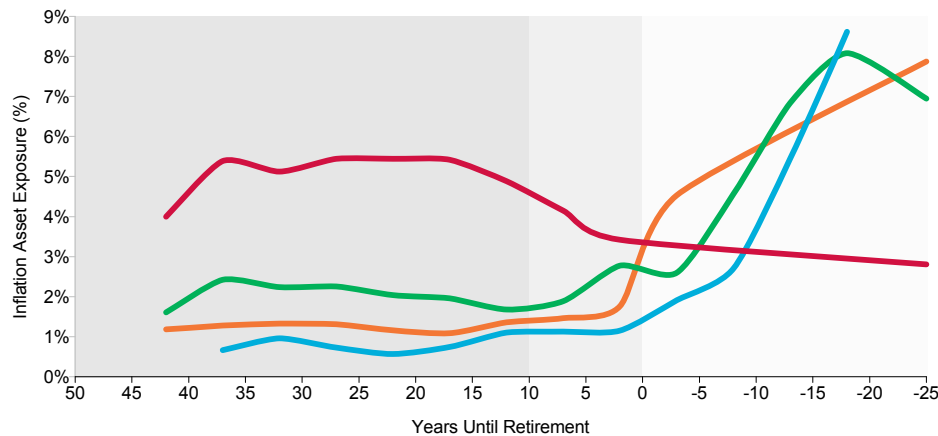
Inflation Asset Suitability

Suitability Explanation for Inflation Assets

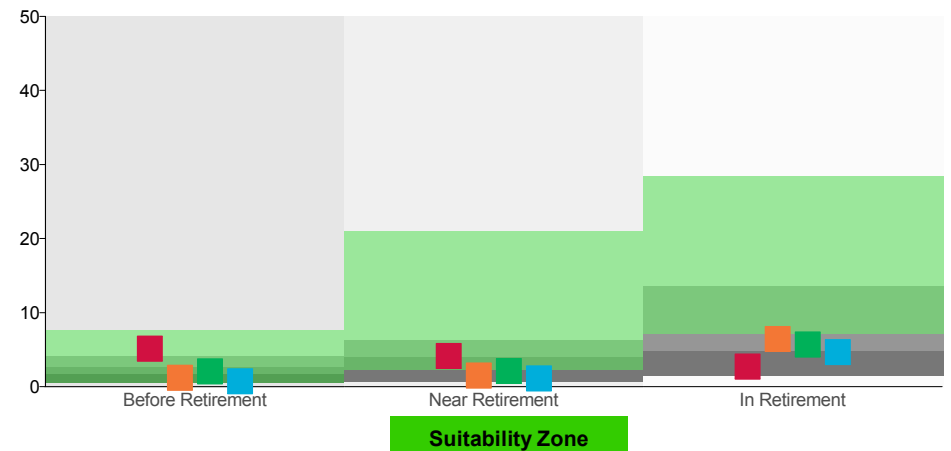
Inflation assets are assets that manage Inflation risk, which is the risk of losing purchasing power. The purpose of these assets is to preserve the purchasing power of wealth that you have accumulated. The asset classes that compose inflation assets are made up of TIPS, Short-Term TIPS, Commodities, and REITs. There are three distinct stages where we look at the percentage of inflation assets that should be in a TDF that is suitable; Before-retirement (<55), Near-retirement (55-65), and In-Retirement (>65). To determine the suitable exposure that a TDF has to these assets, the questionnaire asks you how important it is to manage inflation risk during each of these three stages.

Based on your answers, before age 55, inflation management is not a priority at all. As the participant nears age 65, exposure to inflation should be managed, with the use of inflation-sensitive assets above the 4th quartile. Finally, while the participant is above age 65, exposure to inflation-sensitive assets should be above the majority of the industry.

INFLATION ASSETS GLIDE PATH



AVERAGE INFLATION ASSETS PER RETIREMENT REGION



	Before Retirement Zone	Near Retirement Zone	In Retirement Zone
Suitable Range	Any Quartile	1st, 2nd, or 3rd Quartile	1st or 2nd Quartile
BlackRock LifePath Index	1st Quartile	3rd Quartile	4th Quartile
Fidelity Freedom Index Series	3rd Quartile	4th Quartile	3rd Quartile
T. Rowe Price Retirement Series	4th Quartile	4th Quartile	4th Quartile
Vanguard Target Retirement Series	4th Quartile	4th Quartile	3rd Quartile

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Portfolio Details Summary

	BlackRock LifePath Index	Fidelity Freedom Index Series	T. Rowe Price Retirement Series	Vanguard Target Retirement Series
Share Class / Type	K / Mutual Fund	Inv / Mutual Fund	No Load / Mutual Fund	Inv / Mutual Fund
Vintages Selected	2025 - 2065 + Income	2005 - 2065 + Income	2005 - 2060	2020 - 2065 + Income
Total # Vintages	10	14	12	11
Active/Passive^o	Passive	Passive	Active	Passive
Open/Proprietary¹	Proprietary	Proprietary	Proprietary	Proprietary
Glide Path Type	To Retirement	Through Retirement	Through Retirement	Through Retirement
Landing Point	At Retirement	15 Years After Retirement	30 Years After Retirement	10 Years After Retirement
Equity Exposure (holdings-based)	97.90% (2055) 38.14% (Income) 59.76% (Spread)	88.17% (2060) 18.68% (Income) 69.49% (Spread)	92.54% (2060) 37.96% (2005) 54.58% (Spread)	86.74% (2065) 26.55% (Income) 60.19% (Spread)
Equity Exposure (returns-based)²	96.00% (2065) 40.62% (Income) 55.38% (Spread)	96.65% (2045) 18.37% (Income) 78.28% (Spread)	90.42% (2055) 38.57% (2005) 51.85% (Spread)	93.36% (2060) 29.89% (Income) 63.47% (Spread)
Non-Traditional Exposure Rank (returns-based)³	2nd Quartile	3rd Quartile	4th Quartile	3rd Quartile
Average Expense Ratio	0.09	0.12	0.57	0.08
Longest Manager Tenure (Years)	4.84	13.42	7.58	10.02
Average Manager Tenure (Years)	4.69	12.26	7.58	9.62
Largest Net Assets (\$ Millions)	\$10,442.00 (2030)	\$16,779.00 (2030)	\$16,132.00 (2030)	\$78,593.00 (2030)
Average Net Assets Across Vintages (\$ Millions)	\$5,755.00	\$7,745.50	\$7,271.00	\$49,304.45
Net Asset Date	02/28/2023	02/28/2023	02/28/2023	02/28/2023
Largest # Underlying Funds	12	10	32	7
Average # Underlying Funds Across Vintages	10	7	30	6

All information contained here is based on products selected in this report and not necessarily all available products offered.

^oActive/Passive categorization is based on Morningstar's Top 10 Holdings: <25% passive exposure is Active; >=25% & <75% passive exposure is Blend; >=75% average passive exposure is Passive.

¹Open/Proprietary classification is based on Morningstar's Top 10 Holdings. If 1 or more of the top 10 holdings is managed by a firm other than the Target Date manager, the result is Open classification.

²Factors used in determining total equity exposure are indices representing U.S. Large Cap Equity, U.S. Mid Cap Equity, U.S. Small Cap Equity, Developed Foreign Equity, and Emerging Market Equity.

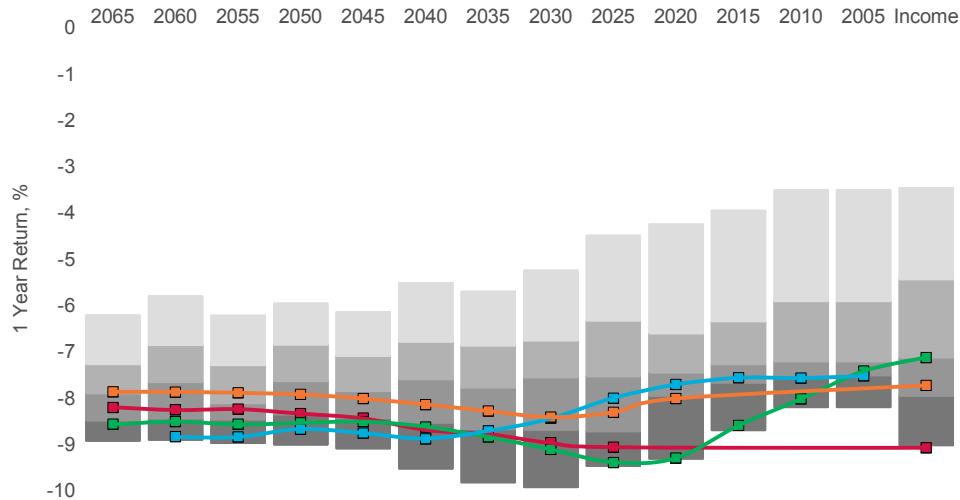
³Factors used in determining non-traditional exposure are indices representing Emg. Market Equity, Dev. Foreign Equity, Emg. Market Debt, Dev. Foreign Debt, High Yield Bonds, Commodities, REITs, and TIPS.

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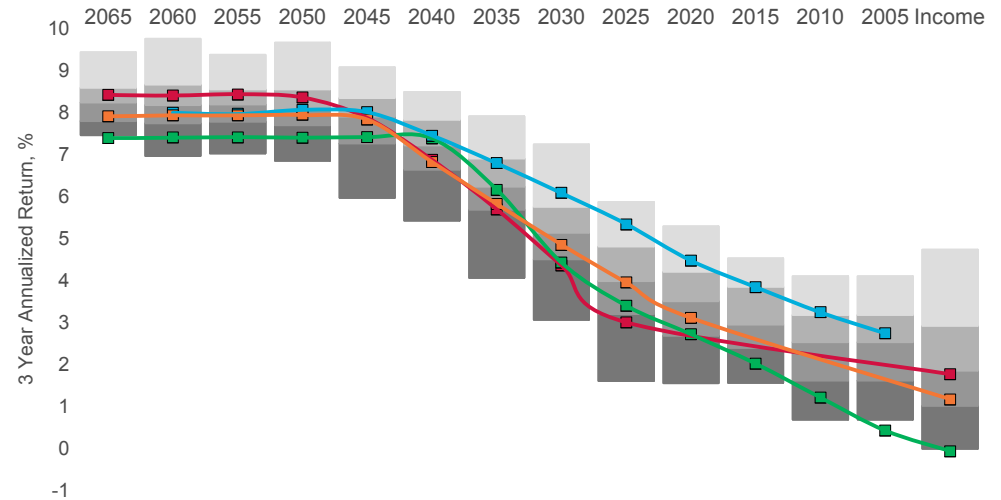
Performance Over Time

As of Feb 28, 2023

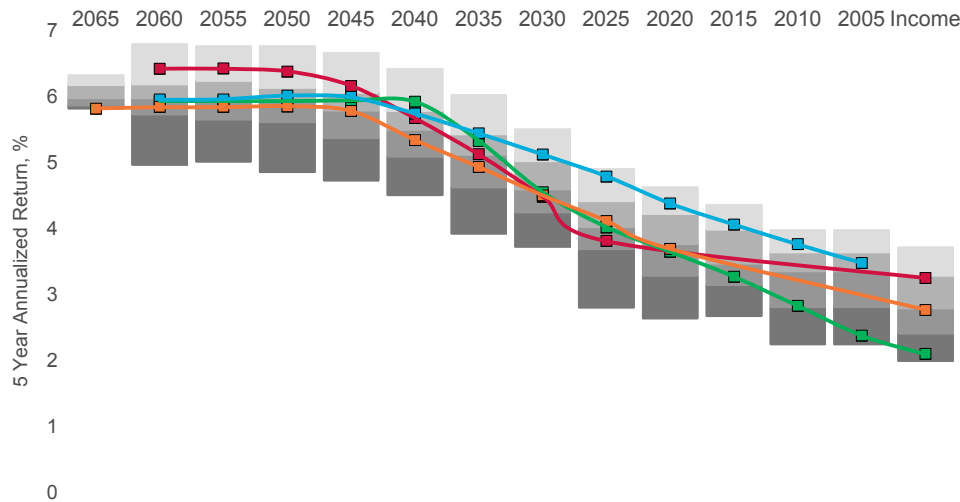
1-YEAR PERFORMANCE VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



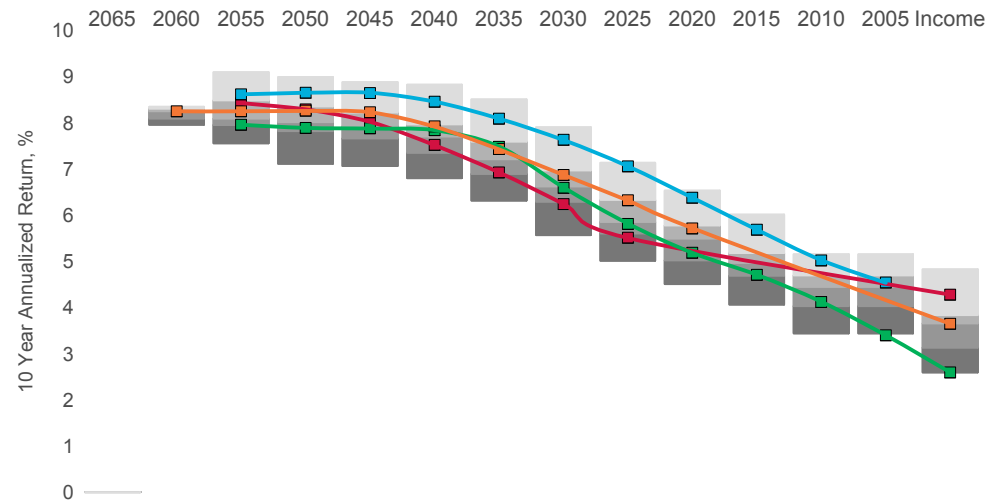
3-YEAR PERFORMANCE VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



5-YEAR PERFORMANCE VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



10-YEAR PERFORMANCE VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



■ BlackRock LifePath Index ■ Fidelity Freedom Index Series ■ T. Rowe Price Retirement Series ■ Vanguard Target Retirement Series

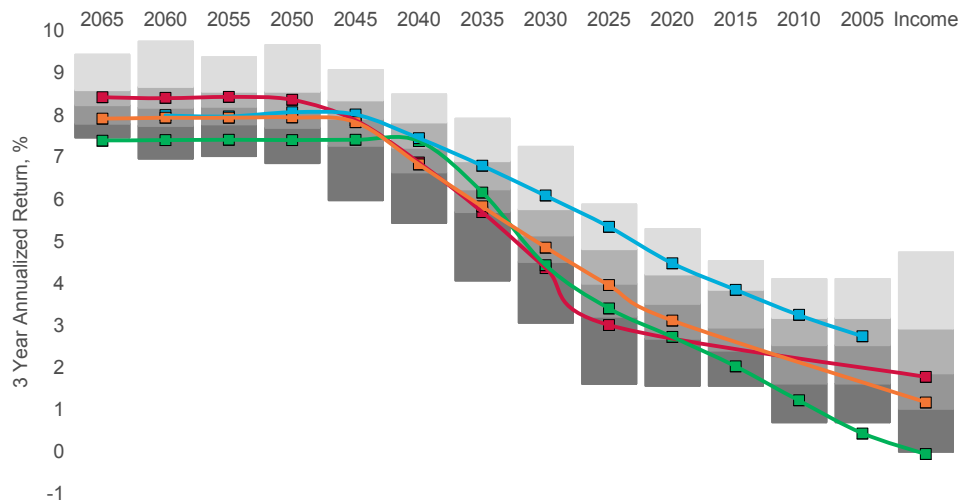
*Morningstar Category peer universe is based off of the oldest share class.

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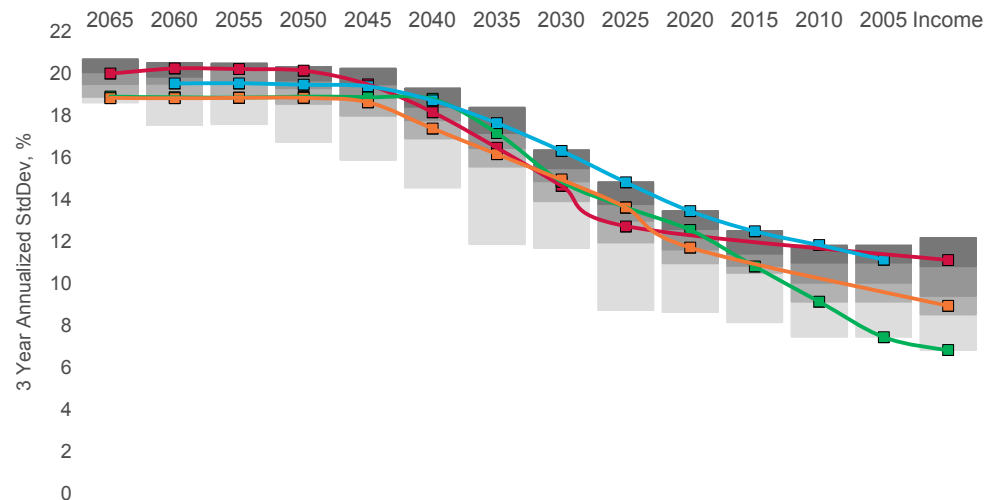
3-Year Risk / Return Analysis

As of Feb 28, 2023

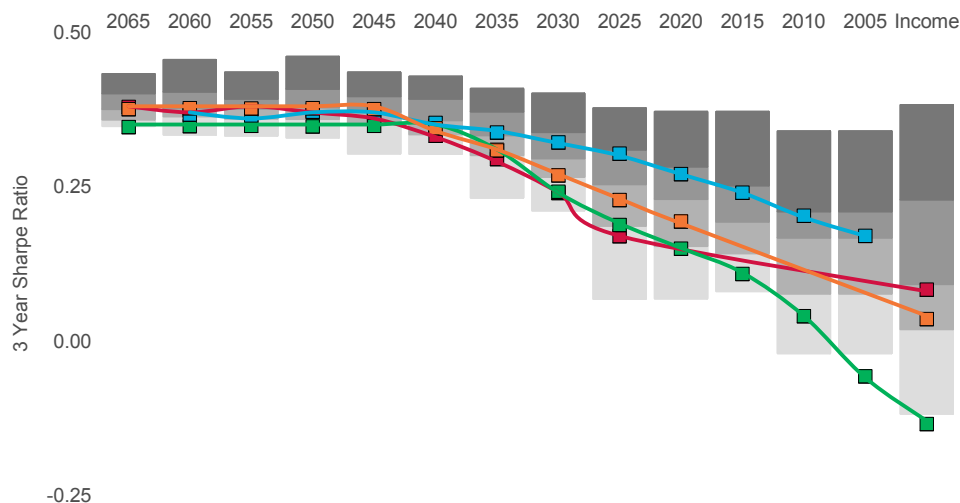
3YR RETURN VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



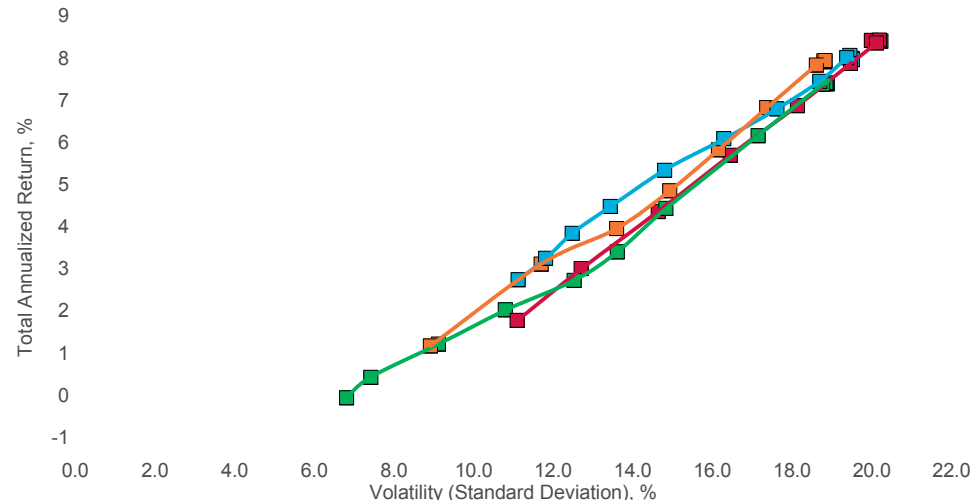
3YR RISK VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



3YR SHARPE RATIO VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



3YR RISK VS. RETURN



■ BlackRock LifePath Index ■ Fidelity Freedom Index Series ■ T. Rowe Price Retirement Series ■ Vanguard Target Retirement Series

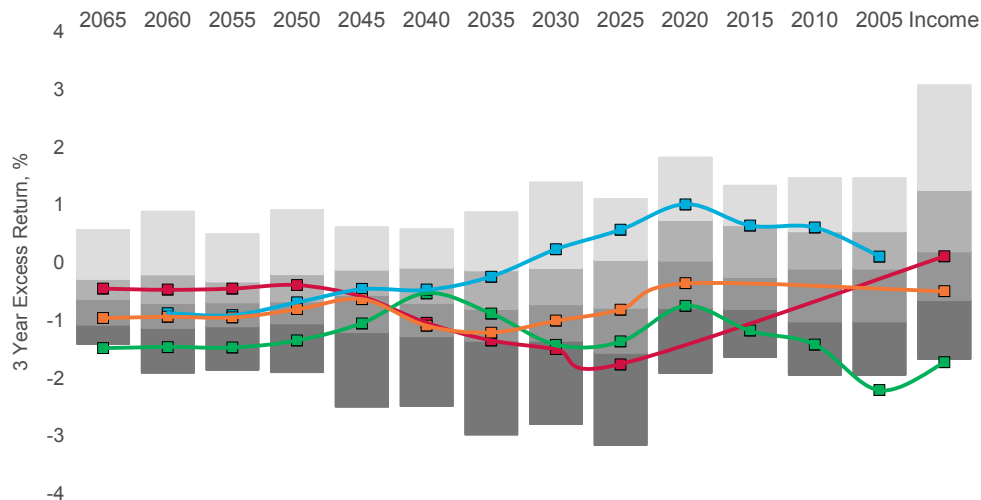
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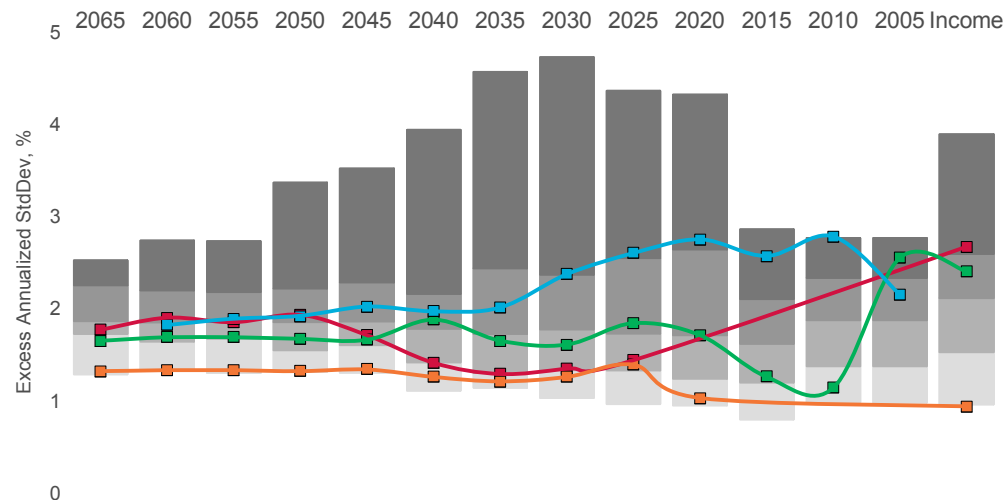
3-Year Relative Risk / Return Analysis

As of Feb 28, 2023

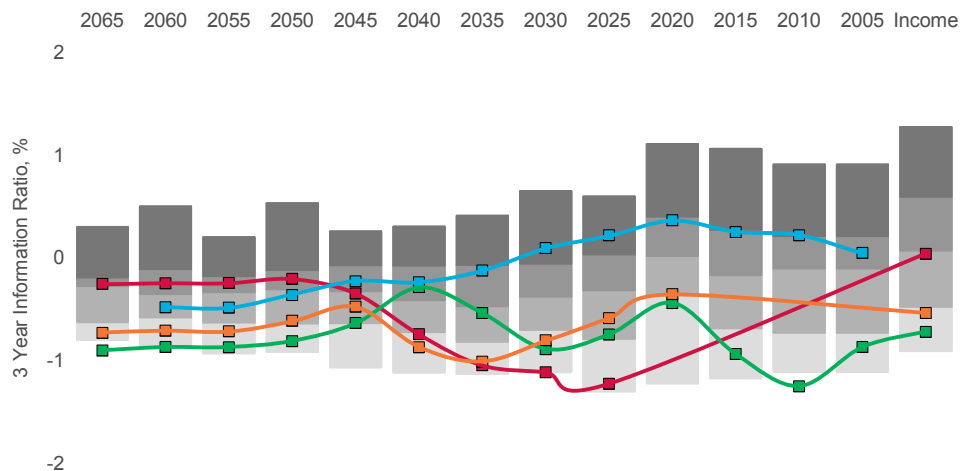
3YR EXCESS RETURN VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



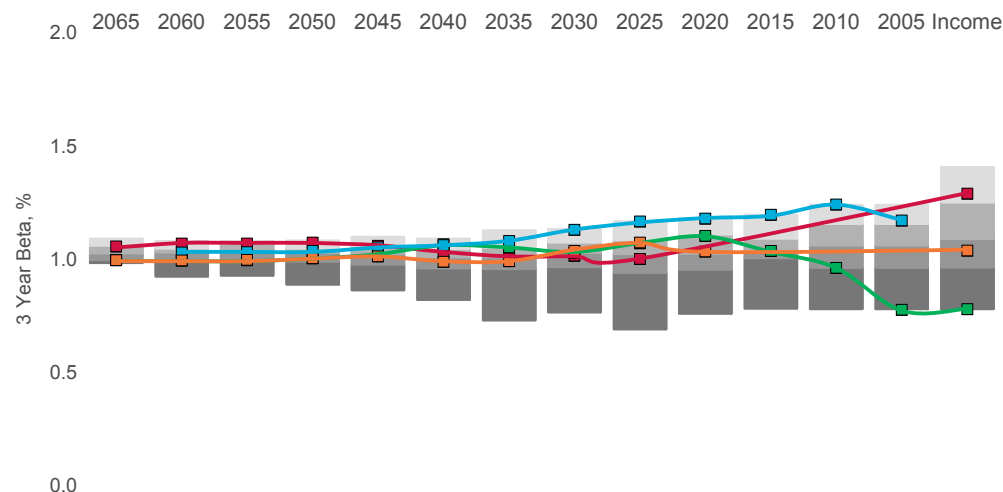
3YR TRACKING ERROR VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



3YR INFORMATION RATIO VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



3YR BETA VS. MORNINGSTAR TARGET DATE CATEGORY UNIVERSE



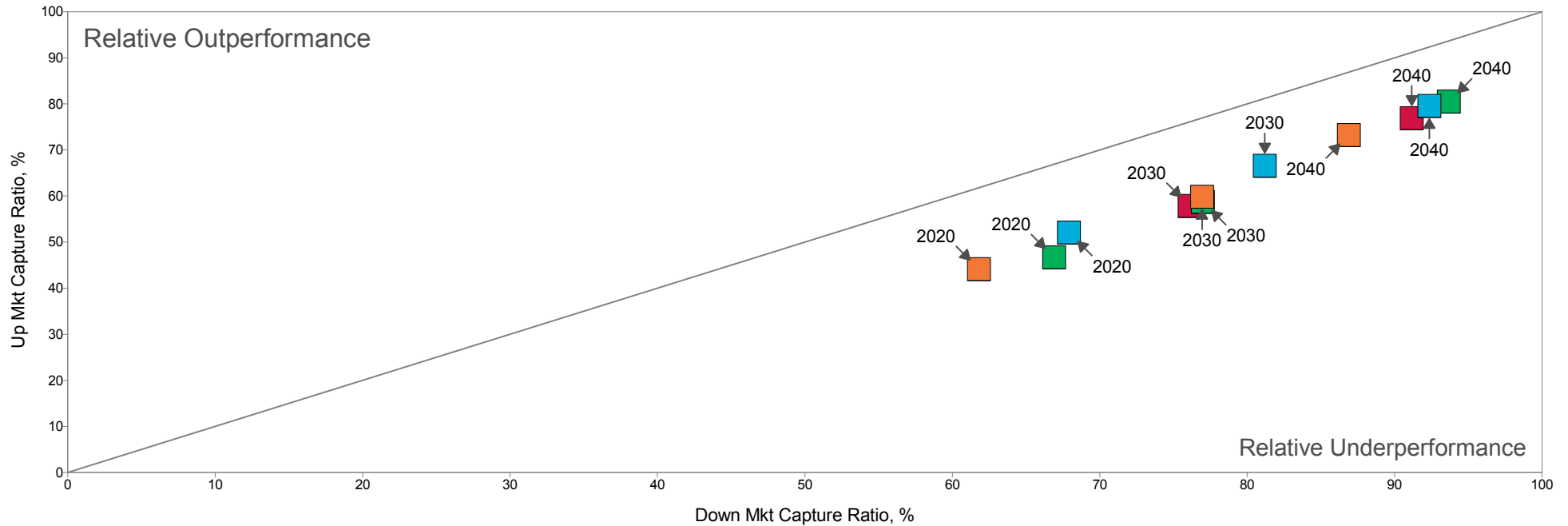
■ BlackRock LifePath Index ■ Fidelity Freedom Index Series ■ T. Rowe Price Retirement Series ■ Vanguard Target Retirement Series

Benchmark series used is S&P Target Date Indices. Specific benchmarks can be found in the disclosure section. Morningstar Category peer universe is based off of the oldest share class.

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MPT Statistics vs. S&P 500 Index

3-YEAR UP/DOWN-MARKET CAPTURE RATIO



	Up Market Capture Ratio	Down Market Capture Ratio	Up Market Average Return	Down Market Average Return	Number of Up Market Months	Number of Down Market Months	R-Squared
BlackRock LifePath Index 2040 K	76.89	91.15	4.04	-4.68	22	14	95.24
BlackRock LifePath Index 2030 K	57.85	76.10	3.13	-3.85	22	14	93.86
Fidelity Freedom Index 2040 Investor	80.49	93.67	4.20	-4.83	22	14	95.20
Fidelity Freedom Index 2030 Investor	58.73	76.99	3.17	-3.90	22	14	93.74
Fidelity Freedom Index 2020 Investor	46.69	66.91	2.57	-3.35	21	15	92.07
T. Rowe Price Retirement 2040	79.55	92.35	4.16	-4.75	22	14	94.82
T. Rowe Price Retirement 2030	66.56	81.19	3.55	-4.13	22	14	94.00
T. Rowe Price Retirement 2020	52.10	67.91	2.84	-3.41	22	14	92.83
Vanguard Target Retirement 2040 Fund	73.21	86.89	3.86	-4.44	22	14	95.13
Vanguard Target Retirement 2030 Fund	59.84	76.94	3.22	-3.90	22	14	94.30
Vanguard Target Retirement 2020 Fund	44.14	61.80	2.44	-3.08	21	15	92.64

Asset Allocation (holdings-based)

Holdings As of Jan 31, 2023

BlackRock LifePath Index	2065	2060	2055	2050	2045	2040	2035	2030	2025						Income
Equities	97.66	97.82	97.90	96.11	89.37	79.19	67.81	56.24	43.67						38.14
Bonds	1.02	1.01	1.00	2.85	8.93	18.49	29.07	39.81	51.50						56.49
Cash	1.23	1.08	1.01	0.96	1.62	2.25	3.06	3.90	4.78						5.33
Other	0.09	0.09	0.09	0.09	0.09	0.07	0.06	0.06	0.05						0.05

Holdings As of Jan 31, 2023

Fidelity Freedom Index Series	2065	2060	2055	2050	2045	2040	2035	2030	2025	2020	2015	2010	2005	Income
Equities	88.15	88.17	88.17	88.17	88.17	85.66	71.92	58.69	52.55	45.91	37.21	28.49	19.92	18.68
Bonds	9.53	9.52	9.51	9.51	9.51	11.67	23.40	35.46	41.60	47.09	53.29	59.53	65.79	66.71
Cash	2.26	2.26	2.26	2.26	2.26	2.63	4.64	5.83	5.83	6.99	9.48	11.96	14.29	14.61
Other	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.02	0.01	0.01

Holdings As of Dec 31, 2022

T. Rowe Price Retirement Serie	2060	2055	2050	2045	2040	2035	2030	2025	2020	2015	2010	2005		
Equities	92.54	92.40	91.82	90.21	85.47	75.97	65.22	54.49	47.66	44.31	41.27	37.96		
Bonds	1.07	1.05	1.05	2.38	6.97	15.46	25.59	36.30	43.54	46.75	49.70	53.05		
Cash	6.24	6.40	6.99	7.26	7.37	8.41	9.02	9.03	8.60	8.73	8.82	8.78		
Other	0.15	0.15	0.14	0.15	0.20	0.16	0.16	0.18	0.20	0.20	0.20	0.21		

Holdings As of Jan 31, 2023

Vanguard Target Retirement Se	2065	2060	2055	2050	2045	2040	2035	2030	2025	2020					Income
Equities	86.74	86.44	86.57	86.63	82.22	74.30	66.70	59.51	51.05	38.91					26.55
Bonds	9.03	9.11	9.10	9.07	12.63	19.19	25.63	31.80	39.05	49.77					60.40
Cash	4.20	4.41	4.29	4.26	5.11	6.47	7.63	8.66	9.86	11.30					13.02
Other	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03					0.02

Morningstar Target Date Cat Av	2065	2060	2055	2050	2045	2040	2035	2030	2025	2020	2015	2010	2005	Income
Equities	87.91	85.23	84.24	81.94	79.61	72.40	65.16	55.75	47.29	39.88	37.15	30.94	30.94	30.10
Bonds	5.16	6.38	6.78	8.35	10.54	15.81	22.13	30.72	36.31	45.20	47.77	49.67	49.67	48.05
Cash	4.76	5.43	5.34	6.05	5.79	6.98	7.74	8.25	10.14	9.18	8.49	11.41	11.41	14.72
Other	2.17	2.96	3.64	3.66	4.06	4.81	4.97	5.27	6.26	5.73	6.59	7.98	7.98	7.14

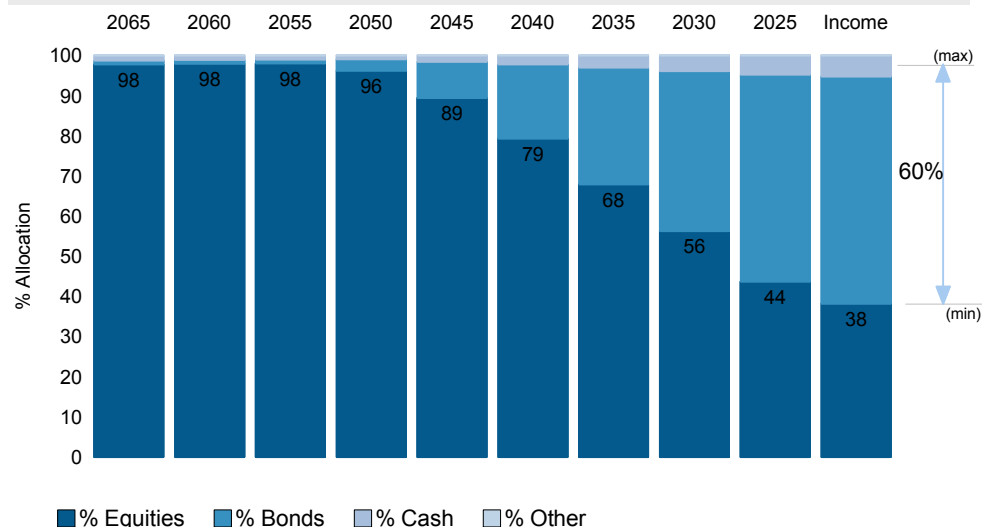
*Morningstar Category peer universe is based off of the oldest share class.

**The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

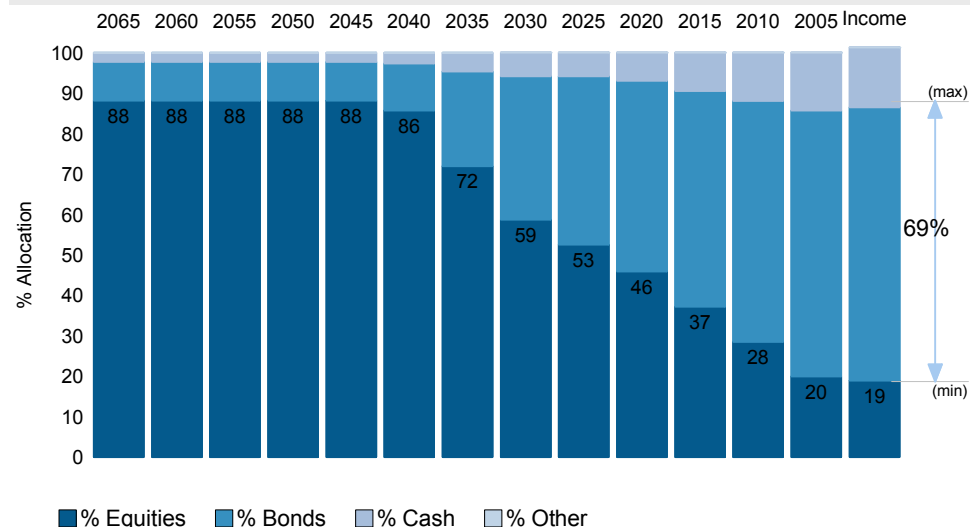
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Glide Path (holdings-based)

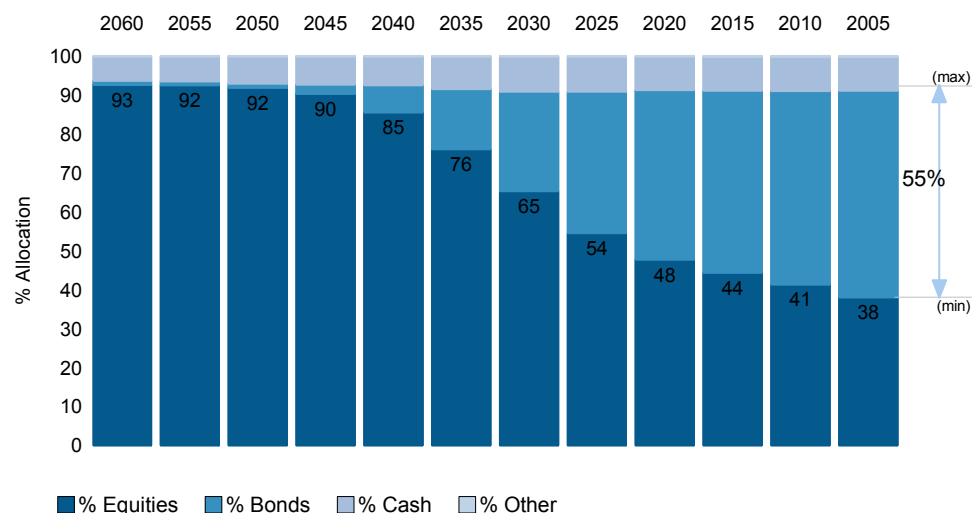
BlackRock LifePath Index



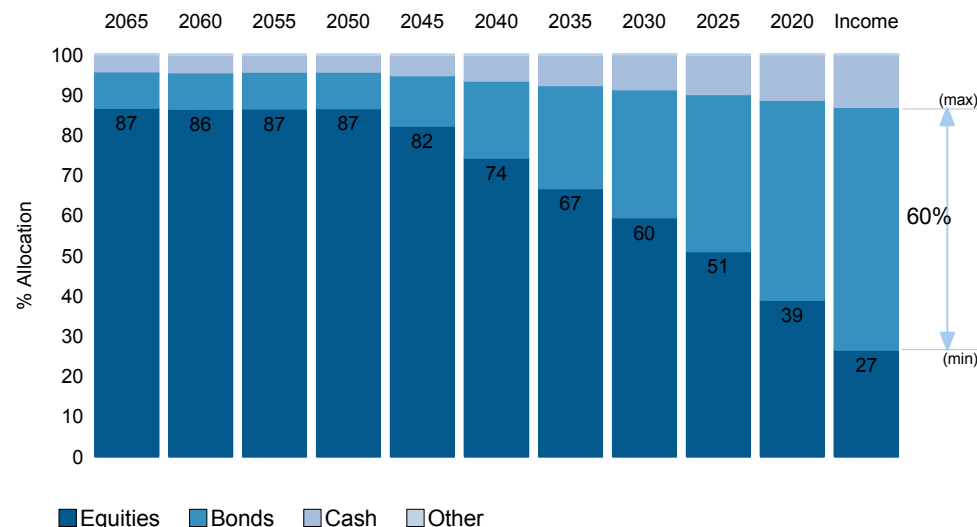
Fidelity Freedom Index Series



T. Rowe Price Retirement Series



Vanguard Target Retirement Series

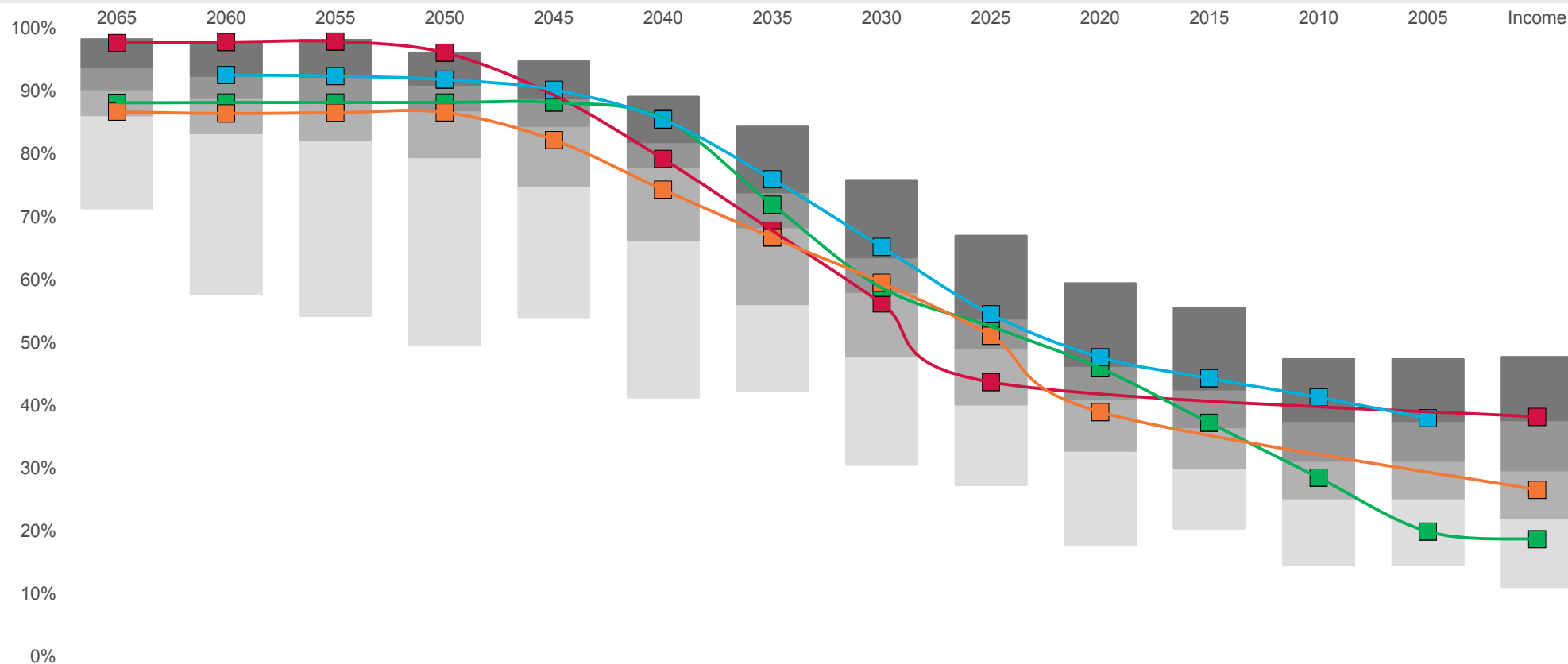


**The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

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Equity Glide Path (holdings-based)

HOLDINGS-BASED EQUITY GLIDE PATH



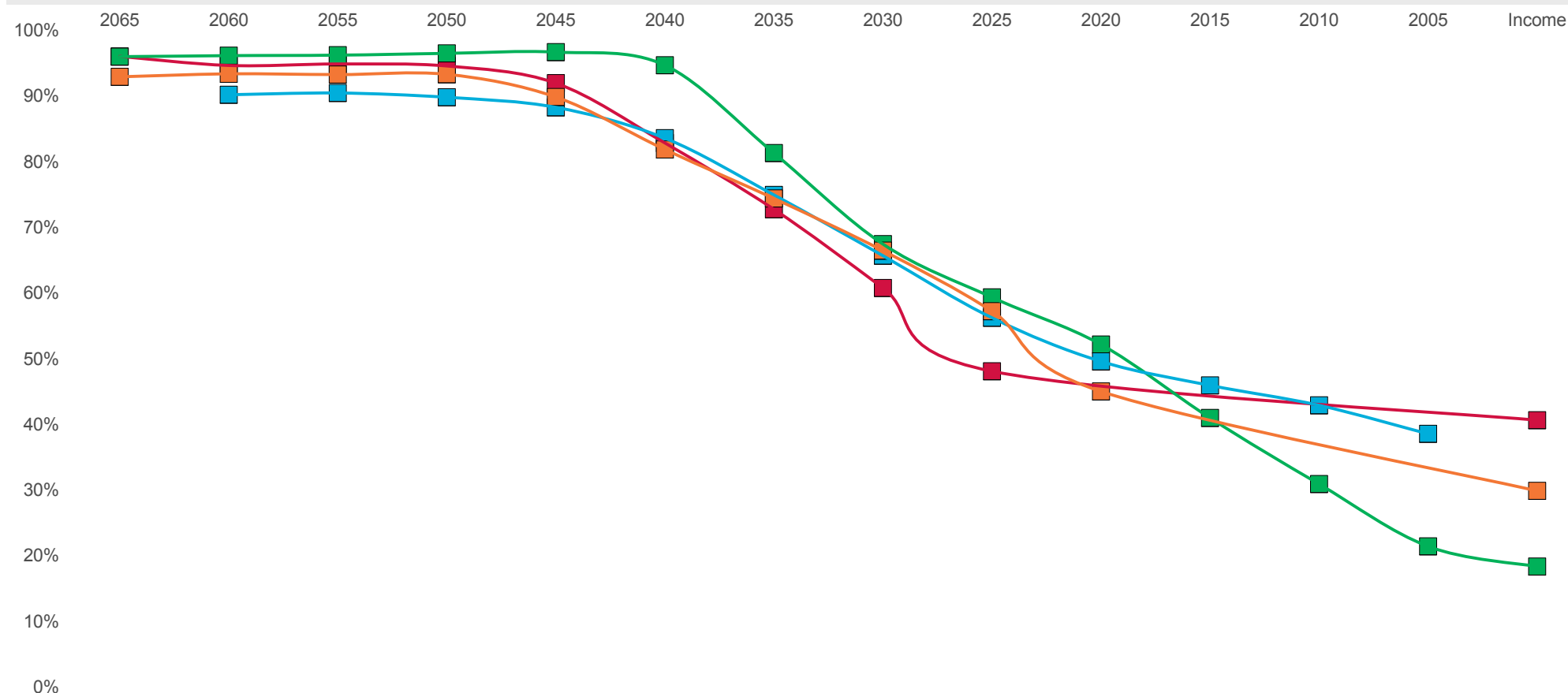
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Equity Exposure Glide Path (returns-based)

RETURNS-BASED EQUITY EXPOSURE GLIDE PATH



Strategy Name	As of Date	2065	2060	2055	2050	2045	2040	2035	2030	2025	2020	2015	2010	2005	Income
BlackRock LifePath Index	02/28/23	96.00	94.61	94.87	94.56	91.92	82.82	72.72	60.75	48.08					40.62
Fidelity Freedom Index Series	02/28/23	95.97	96.13	96.19	96.47	96.65	94.67	81.29	67.42	59.35	52.16	40.97	30.91	21.41	18.37
T. Rowe Price Retirement Series	02/28/23		90.18	90.42	89.77	88.25	83.58	74.93	65.66	56.21	49.57	45.92	42.91	38.57	
Vanguard Target Retirement Series	02/28/23	92.90	93.36	93.24	93.29	89.84	81.83	74.37	66.42	57.21	45.02				29.89

Returns based Total Equity Exposure is the result of multi-variate regression of each product to five equity indices that comprise both US and Non-US Equity.

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Equity Allocation Breakdown (holdings-based)

2020	Holdings As	Equity (%)		Regional Exposure (%)		Market Cap (%)				
	of Date	US Equity	Non-US Equity	Emerging Market	Developed Country	Giant Cap	Large Cap	Medium Cap	Small Cap	Micro Cap
Fidelity Freedom Index Series	01/31/2023	27.26	18.65	8.09	91.91	44.52	34.12	16.29	3.73	1.35
T. Rowe Price Retirement Series	12/31/2022	30.98	16.68	6.43	93.57	39.96	33.44	20.49	4.74	1.36
Vanguard Target Retirement Series	01/31/2023	23.22	15.69	8.13	91.87	41.58	31.83	19.49	5.56	1.55
Morningstar Target Date Cat Avg	02/28/2023	25.90	12.87	5.91	94.09	38.22	31.95	20.85	7.11	1.86

2030	Date	US Equity	Non-US Equity	Emerging Market	Developed Country	Giant Cap	Large Cap	Medium Cap	Small Cap	Micro Cap
BlackRock LifePath Index	01/31/2023	35.18	21.06	6.86	93.14	39.96	31.63	20.72	6.11	1.59
Fidelity Freedom Index Series	01/31/2023	34.85	23.84	8.09	91.91	44.52	34.12	16.29	3.73	1.35
T. Rowe Price Retirement Series	12/31/2022	42.37	22.85	6.48	93.52	39.97	33.40	20.50	4.76	1.36
Vanguard Target Retirement Series	01/31/2023	34.78	24.73	8.38	91.62	41.59	31.86	19.49	5.53	1.52
Morningstar Target Date Cat Avg	02/28/2023	35.35	19.12	6.34	93.66	38.45	31.68	20.58	7.24	2.05

2040	Date	US Equity	Non-US Equity	Emerging Market	Developed Country	Giant Cap	Large Cap	Medium Cap	Small Cap	Micro Cap
BlackRock LifePath Index	01/31/2023	49.34	29.85	6.89	93.11	40.95	32.41	21.12	4.73	0.79
Fidelity Freedom Index Series	01/31/2023	50.85	34.81	8.10	91.90	44.52	34.12	16.28	3.73	1.35
T. Rowe Price Retirement Series	12/31/2022	55.59	29.88	6.68	93.32	40.76	32.07	20.60	5.04	1.53
Vanguard Target Retirement Series	01/31/2023	43.77	30.53	8.28	91.72	41.59	31.85	19.49	5.54	1.53
Morningstar Target Date Cat Avg	02/28/2023	45.70	25.39	6.64	93.36	38.36	31.61	20.67	7.32	2.03

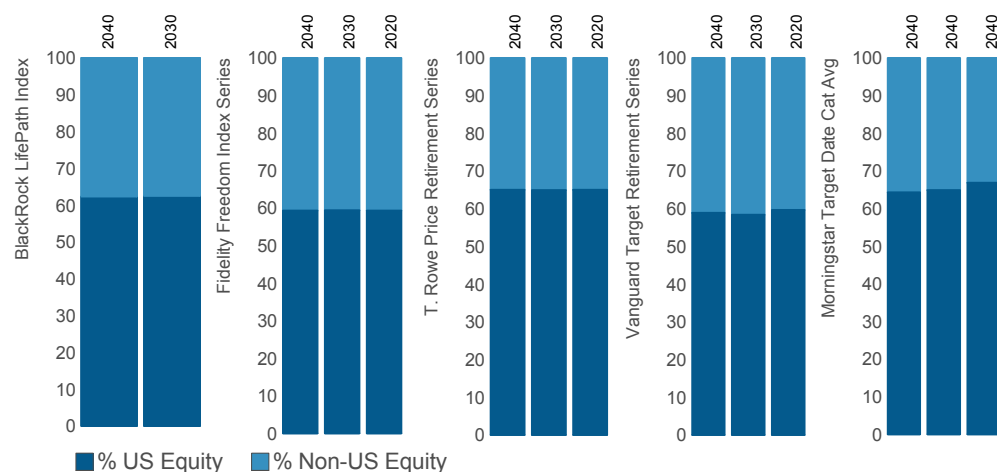
*Morningstar Category peer universe is based off of the oldest share class.

**The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

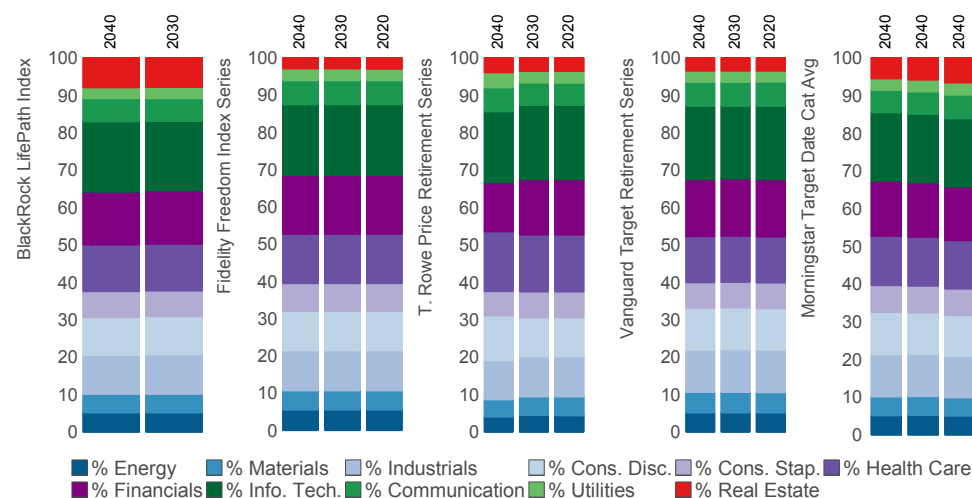
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Equity Allocation Breakdown (holdings-based)

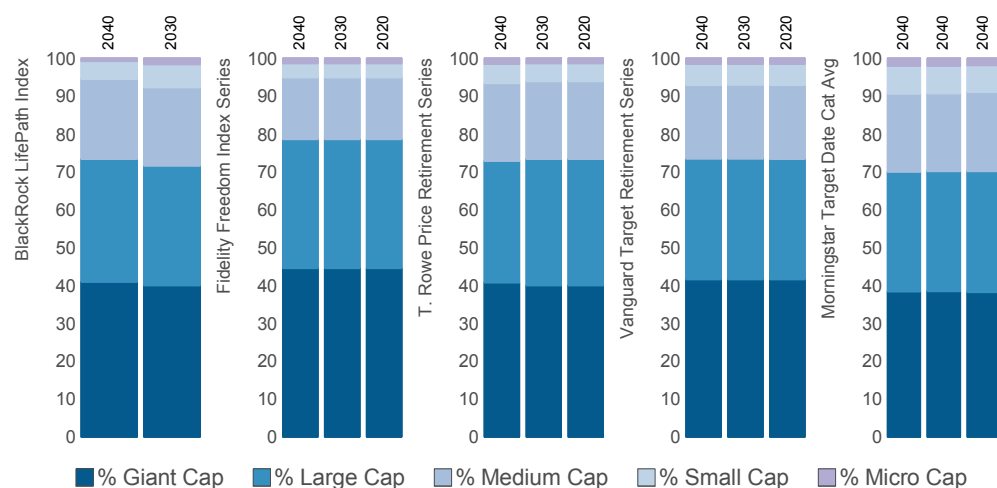
EQUITY ALLOCATION BREAKDOWN



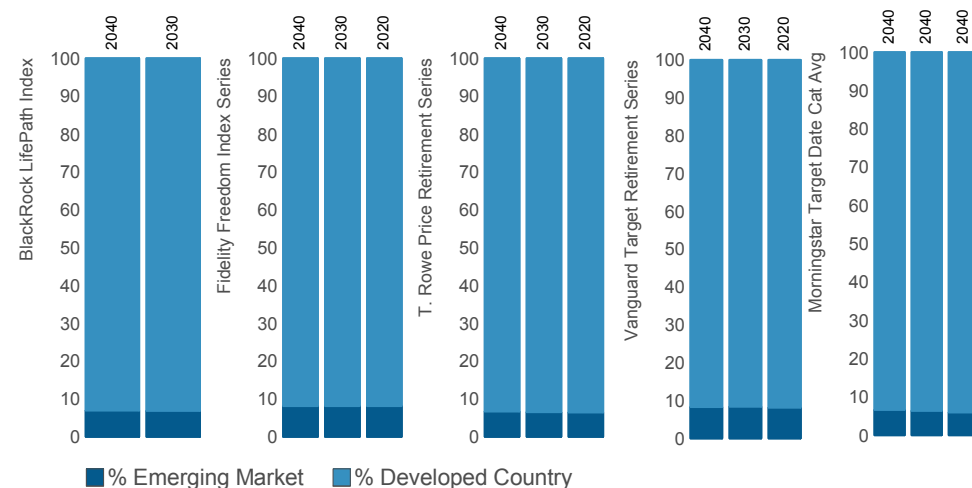
SECTOR ALLOCATION BREAKDOWN (GICS)



MARKET CAP BREAKDOWN



REGION BREAKDOWN



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Fixed Income Allocation Breakdown (holdings-based)

2020	Holdings As of Date	Regional (%)		Sector (%)						Credit Quality (%)					
		US Bonds	Non-US Bonds	Govt	Muni	Corp	Securitized	Cash	Other	AAA	AA	A	BBB	Below Inv Grade	Not Rated
Fidelity Freedom Index Series	01/31/2023	40.17	6.92	59.80	0.30	12.66	15.47	11.77	0.00	85.91	5.90	7.89	7.19	0.00	0.00
T. Rowe Price Retirement Series	12/31/2022	30.90	12.64	54.78	0.18	18.69	10.45	15.84	0.05	62.23	4.46	7.83	9.63	15.84	0.00
Vanguard Target Retirement Series	01/31/2023	35.65	14.12	54.42	0.33	15.17	10.98	4.79	14.32	64.81	8.09	13.95	12.57	0.58	0.00
Morningstar Target Date Cat Avg	02/28/2023	37.77	6.17	44.09	0.38	23.35	15.77	14.40	2.01	62.73	4.38	9.77	12.69	11.04	0.75

2030	Date	US Bonds	Non-US Bonds	Govt	Muni	Corp	Securitized	Cash	Other	AAA	AA	A	BBB	Below Inv Grade	Not Rated
BlackRock LifePath Index	01/31/2023	37.59	2.22	53.55	0.72	19.69	19.87	6.17	0.00	21.38	10.51	42.30	2.75	23.07	0.00
Fidelity Freedom Index Series	01/31/2023	29.12	6.34	56.71	0.31	12.91	15.76	14.31	0.00	85.60	6.94	8.69	7.77	0.00	0.00
T. Rowe Price Retirement Series	12/31/2022	17.18	8.41	45.28	0.10	18.19	10.66	25.70	0.06	62.27	4.84	8.48	10.02	14.39	0.00
Vanguard Target Retirement Series	01/31/2023	20.92	10.88	46.43	0.39	17.94	13.01	5.54	16.69	57.37	9.76	16.92	15.29	0.68	0.00
Morningstar Target Date Cat Avg	02/28/2023	25.40	4.62	40.71	0.38	23.30	15.21	17.71	2.69	60.81	4.76	10.24	12.88	12.22	0.85

2040	Date	US Bonds	Non-US Bonds	Govt	Muni	Corp	Securitized	Cash	Other	AAA	AA	A	BBB	Below Inv Grade	Not Rated
BlackRock LifePath Index	01/31/2023	17.24	1.25	44.62	1.37	27.29	18.22	8.49	0.00	8.27	4.49	53.02	3.92	30.30	0.00
Fidelity Freedom Index Series	01/31/2023	9.91	1.76	61.79	0.21	8.89	10.72	18.39	0.00	90.17	5.61	6.54	5.71	0.00	0.00
T. Rowe Price Retirement Series	12/31/2022	5.06	1.91	29.59	0.05	11.51	8.37	50.48	0.00	77.47	3.32	5.78	6.34	7.09	0.00
Vanguard Target Retirement Series	01/31/2023	12.64	6.55	44.07	0.37	17.04	12.36	10.36	15.81	57.40	9.74	16.91	15.28	0.67	0.00
Morningstar Target Date Cat Avg	02/28/2023	12.78	2.74	35.85	0.41	22.61	13.24	25.20	2.68	59.23	4.95	10.37	13.03	13.35	0.85

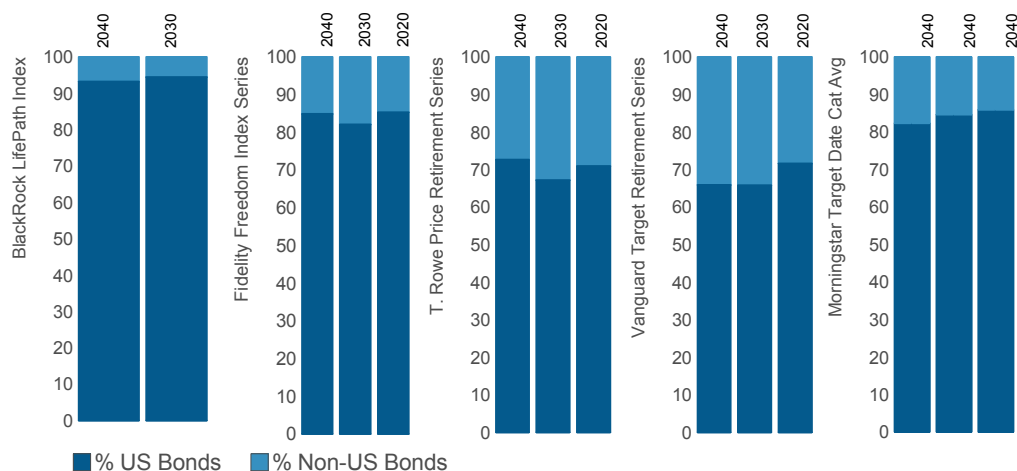
*Morningstar Category peer universe is based off of the oldest share class.

**The above sector weights data are based on a Broad Asset Class Breakdown. Please see Important Information section for detailed information.

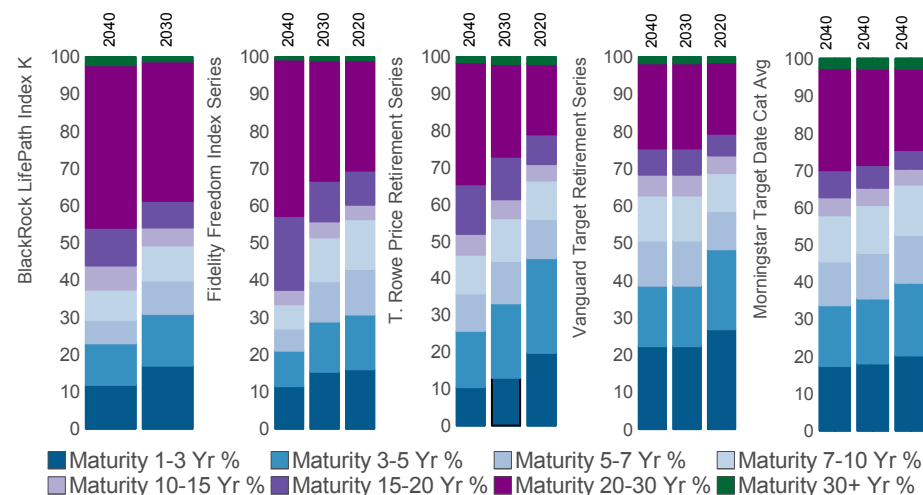
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Fixed Income Allocation Breakdown (holdings-based)

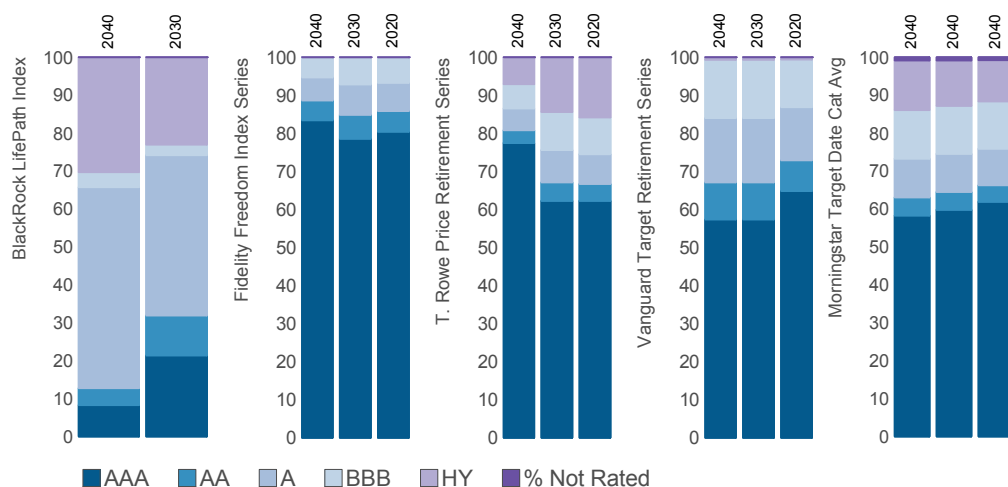
REGIONAL BREAKDOWN



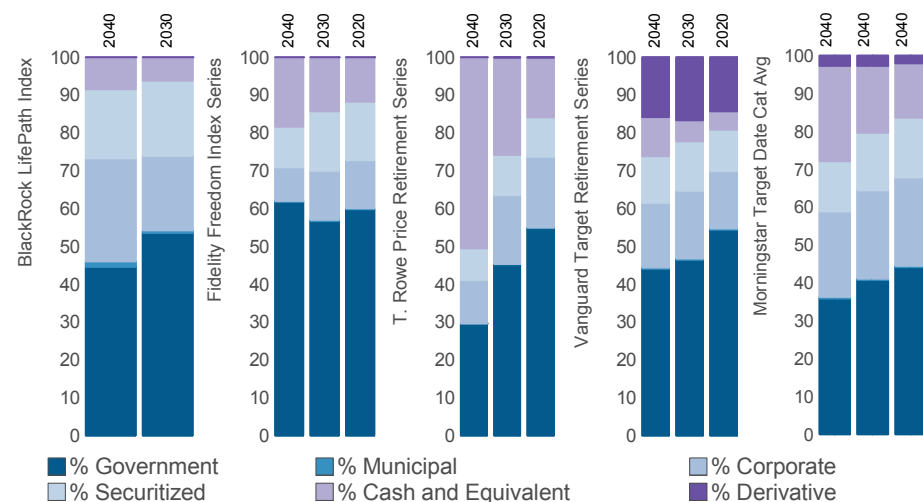
MATURITY BREAKDOWN



QUALITY BREAKDOWN



SECTOR BREAKDOWN



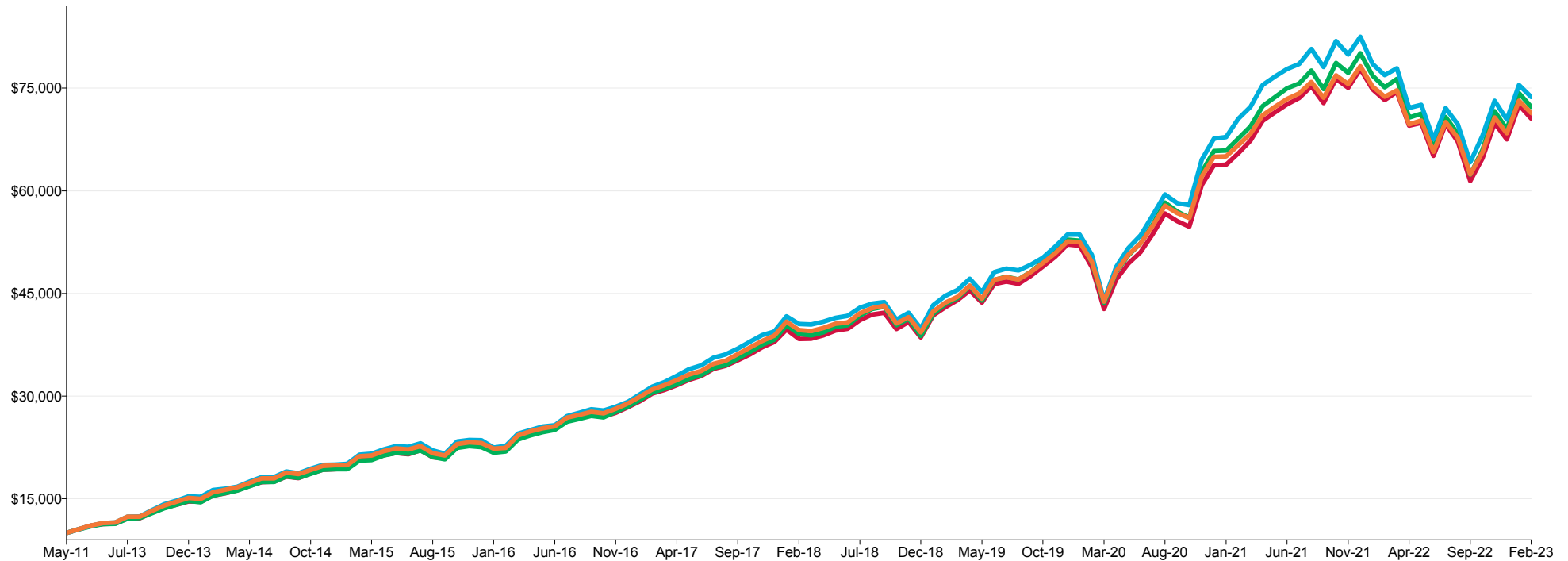
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Investment of \$10,000 & Monthly Contribution of \$300 (May-11 - Feb-23)

CUMULATIVE PERFORMANCE OF \$10,000



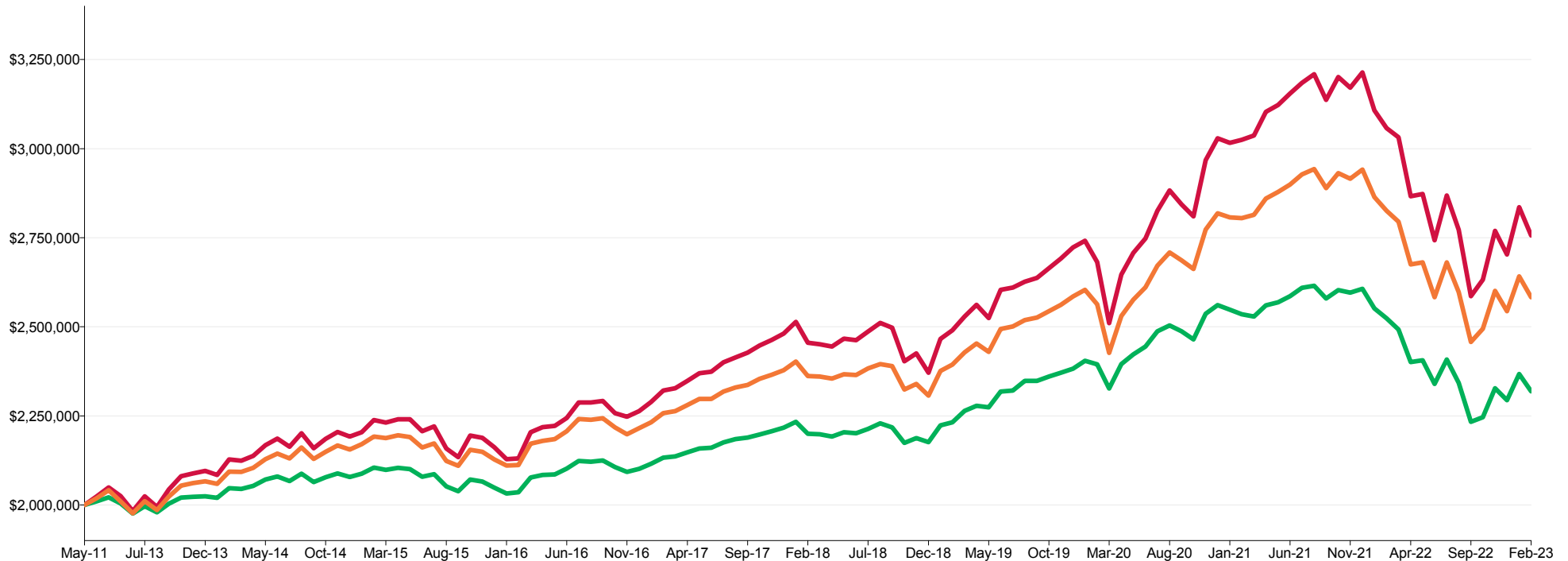
	BlackRock LifePath Index 2040 K	Fidelity Freedom Index 2040 Investor	T. Rowe Price Retirement 2040	Vanguard Target Retirement 2040 Fund
				
Initial Investment (5/31/2011)	\$10,000	\$10,000	\$10,000	\$10,000
Ending Value (2/28/2023)	\$70,544	\$72,269	\$73,724	\$71,363
Total Annualized Return	7.51%	7.83%	8.45%	7.91%
Total Cumulative Return	106.34%	112.52%	125.03%	114.18%
Best Monthly Return	10.57% (Nov 2020)	11.36% (Nov 2020)	10.94% (Nov 2020)	10.29% (Nov 2020)
Worst Monthly Return	-13.12% (Mar 2020)	-12.76% (Mar 2020)	-13.77% (Mar 2020)	-12.33% (Mar 2020)
Max Drawdown Return	-24.04%	-25.07%	-25.09%	-23.27%
Max Drawdown Period	Jan 2022 - Sep 2022 (9 Months)	Jan 2022 - Sep 2022 (9 Months)	Jan 2022 - Sep 2022 (9 Months)	Jan 2022 - Sep 2022 (9 Months)
Recovery Period	Oct 2022 - Jan 2023 (4 Months)	Oct 2022 - Jan 2023 (4 Months)	Oct 2022 - Jan 2023 (4 Months)	Oct 2022 - Jan 2023 (4 Months)

Values for strategies will only be shown here if the strategy has a product associated with the selected Morningstar Category of *Target Date 2040*

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Investment of \$2,000,000 & Monthly Withdrawal of \$2,000 (May-11 - Feb-23)

CUMULATIVE PERFORMANCE OF \$2,000,000



	BlackRock LifePath Index Retire K	Fidelity Freedom Index Income Investor	Vanguard Target Retirement Income Fund
	■	■	■
Initial Investment (5/31/2011)	\$2,000,000	\$2,000,000	\$2,000,000
Ending Value (2/28/2023)	\$2,756,368	\$2,319,142	\$2,583,232
Total Annualized Return	4.27%	2.59%	3.64%
Total Cumulative Return	51.97%	29.14%	43.03%
Best Monthly Return	5.69% (Nov 2020)	3.69% (Nov 2022)	4.35% (Nov 2022)
Worst Monthly Return	-6.66% (Sep 2022)	-4.59% (Sep 2022)	-5.31% (Sep 2022)
Max Drawdown Return	-19.05%	-13.68%	-15.89%
Max Drawdown Period	Jan 2022 - Sep 2022 (9 Months)	Jan 2022 - Sep 2022 (9 Months)	Jan 2022 - Sep 2022 (9 Months)
Recovery Period	Oct 2022 - Jan 2023 (4 Months)	Oct 2022 - Jan 2023 (4 Months)	Oct 2022 - Jan 2023 (4 Months)

Values for strategies will only be shown here if the strategy has a product associated with the selected Morningstar Category of *Target Date Retire*

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Important Information

Target Date Radar's 5 Pillars of Suitability Appendix

Active vs. Blend vs. Passive: Active vs. Passive classification is based solely on Morningstar's Top 10 Holdings information. The classification is based on the percentage of passive holdings present in the Top 10 Holdings. Passive holdings are those in which the primary mandate of the underlying asset is to track an index. Active classification results when less than 25% of the holdings are passive. Blend classification results when passive holdings are between 25% and 75% of holdings. Passive classification results when 75% or more of the holdings are considered passive.

Open vs. Proprietary: Open vs. Proprietary classification is based on Morningstar's Top 10 Holdings information. If one or more of the Top 10 Holdings is/are managed by a firm other than the target date manager, the result is open classification.

Non-Traditional Asset Class Exposure: Non-traditional asset class exposure is handled using our proprietary DSA model, a form of returns based style analysis (RBSA). Each individual target date fund is regressed against a set of indices representing non-traditional asset classes. The asset classes used in the model are Developed Foreign Equity, Emerging Market Equity, Developed Foreign Debt, Emerging Market Debt, High Yield Bonds, Commodities, REITs, and TIPS. The exposures (betas) to each of these indices are then summed up for each target date fund, and an average is found for each individual strategy.

To vs. Through (Landing Point): To vs. Through classification and the Landing Point value is taken directly from Morningstar. When this information is missing, MPI analyzed Target Date Fund factsheets to find this information.

Glide Path Shape: The glide path shape is analyzed more deeply in TDF Radar than on simply just an equity basis and is handled by our proprietary DSA model. The shape is broken down into three asset types, Growth assets, Defensive assets, and Inflation sensitive assets. In addition, these assets are then analyzed in three retirement zones; before retirement (55 and younger), near retirement (55 - 65), and in retirement (65 and older). Growth assets are composed of indices that represent Large Cap US Equity, Mid Cap US Equity, Small Cap US Equity, Developed Foreign Equity, Emerging Market Foreign Equity, High Yield Bonds, Emerging Market Debt, Commodities, and REITs. Defensive assets are composed of indices representing Cash & Equivalents, Foreign Debt, Core US Fixed Income, Short-Term Corporate Fixed Income, TIPS and Short-Term TIPS. Lastly, Inflation sensitive assets are composed of indices representing TIPS, Short Term TIPS, Commodities, and REITs. The exposures (betas) to these assets are summed together on a strategy level and analyzed.

Definitions

Note on Data: All information was sourced through the Morningstar database, and all data was analyzed through MPI Stylus Software. Morningstar is an unaffiliated third-party data provider. Information contained herein is based upon sources we consider to be reliable. Risk/return statistics are calculated using monthly data and are net of fees.

Beta: Beta is defined as a Manager's sensitivity to market movements and is used to evaluate market related, or systematic risk. Beta is a measure of the linear relationship, over time, of the Manager's returns and those of the Benchmark. Beta is computed by regressing the Manager's excess returns over the risk free rate (cash proxy) against the excess returns of the Benchmark over the risk free rate. An investment that is as equally volatile as the market will have a Beta of 1.0; an investment half as volatile as the market will have a Beta of 0.5; and so on. Thus, Betas higher than 1.0 indicate that the fund is more volatile than the market.

Broad Asset Class Breakdown: Broad Asset Class Breakdown is based on underlying holdings classified by Morningstar into four general investment groups. They are calculated using long-only rescaled position holdings, as of the portfolio holdings date indicated. In a rare instance, the portfolio date across vintage years within may differ.

- **% Equities:** Equities include only common stocks (U.S. and Non-U.S. Equities).
- **% Bonds:** Bonds include everything from government notes to high-yield corporate bonds (U.S. and Non-U.S. Bonds).
- **% Cash:** Cash encompasses both actual cash and cash equivalents (fixed-income securities with a maturity of one year or less) held by the portfolio plus receivables minus payables.
- **% Other:** Other includes preferred stocks (equity securities that pay dividends at a specific rate) as well as convertible bonds and convertible preferreds, which are corporate securities that are exchangeable for a set amount of another form of security (usually common shares) at a pre-stated price. Other also denotes all those not-so-neatly categorized securities, such as warrants and options.

Credit Quality: A credit quality breakdown of a funds fixed-income holdings provided by Standard & Poor's or Moody's. Morningstar's database ranges from AAA (highest) to B (lowest). U.S. Government bonds carry the highest credit rating, while bonds issued by speculative companies usually carry the lowest credit ratings. For taxable bonds, anything at or below BB is considered a high-yield or junk bond. For municipal bonds, anything at or below BBB is considered a high-yield or junk bond. For the purpose of Morningstar's calculations, U.S. government bonds are considered AAA. Nonrated municipal bonds generally are classified as BBB. Other nonrated bonds generally are considered B.

Down Market Average Return: Average monthly return over the time period analyzed in which the market (benchmark) earned a negative return.

Down Market (Mkt) Capture Ratio: Down Market Capture Ratio is a measure of an investment's performance in down markets relative to the market itself. A down market is one in which the market's return is less than zero. The lower the investment's Down Market Capture Ratio, the better the investment protected capital during a market decline. A negative Down Market Capture Ratio indicates that an investment's returns rose while the market declined.

Equity Sector Allocations: The percentage a manager has allocated to specific GICS classified economic sectors. Sectors are based on what companies actually do. That is, unlike some standard sector classification systems, sectors aren't based on expected behavior of the stocks of these companies. This is calculated for all stock portfolios based on the securities in the most recent portfolio. For domestic-stock portfolios, this statistic shows the percentage of the domestic stock assets invested in each of the 11 GICS sector classifications.

Excess: Denotes that a statistic is being measured relative to the Market Index selected. The data set analyzed consists of the periodic differences between the investment's measure and the selected Market Index's definition.

Definitions

Fixed Income Super Sector Allocations: The fixed-income securities and fixed-income derivative exposures within a portfolio are rolled up into one of the following super sectors.

- **% Government:** This Super Sector includes all conventional debt issued by governments, bonds issued by a Central Bank or Treasury, and bonds issued by local governments, cantons, regions and provinces.
- **%Municipal:** The Municipal Super Sector includes taxable and tax-exempt debt obligations issued under the auspices of states, cities, counties, provinces, and other non-federal government entities.
- **%Corporate:** This Super Sector includes bank loans, convertible bonds, conventional debt securities issued by corporations, and preferred stock.
- **%Securitized:** The Securitized Super Sector includes all types of mortgage-backed securities, covered bonds and asset-backed securities.
- **%Cash:** This Super Sector includes cash in the bank, certificates of deposit, currency, and money market holdings. Cash can also be any fixed-income securities that mature in less than 12 months. This Super Sector also includes commercial paper and any repurchase agreements held by the fund.
- **%Other:** The Derivatives Super Sector includes the common types of fixed-income derivative contracts: futures and forwards, options and swaps. For display purposes products may elect to identify this sector as Other.

Information Ratio: The Information Ratio is a measure of value added by an investment manager. It is the ratio of (annualized) excess return above the selected Market Index to (annualized) Tracking Error. Excess return is calculated by linking the difference of the manager's return for each period minus the selected Market Index return for each period, then annualizing the result.

Market Cap: Morningstar separates stock portfolio holdings into five market-capitalization groups: Giant, Large, Mid, Small, and Micro. Of the 5000 largest domestic stocks in the equities database, the top 1% are categorized as Giant, the next 4% are Large, the next 15% are Mid, the next 30% are Small, and the remaining 50% are Micro. Stocks outside of the largest 5000 are also classified as Micro.

Max Drawdown: Is the maximum loss incurred by a portfolio during a specified time period. It is used to measure the 'worst case scenario' of investing in a portfolio at the worst possible time.

Morningstar Target Date Cat Avg: This is the arithmetic (holdings based data points) or geometric (time series data points) average which is computed by MPI Stylus based on Morningstar's assigned Morningstar Category.

Morningstar Target Date Cat Med: This is the arithmetic (holdings based data points) or geometric (time series data points) median which is computed by MPI Stylus based on Morningstar's assigned Morningstar Category.

Peer Group Data: Peer group data throughout the report is calculated by MPI based on Morningstar categories. As Target Date funds span across a number of vintages (years to retirement) each vintage is calculated using its unique peer group. A single graph will combine multiple peer group categories which can be visually seen by the date in the column which is associated with the fund and category of the same name. Peer groups contain both Mutual Funds and Collective Investment Trusts (CITs).

Prospectus Net Expense Ratio: Morningstar pulls the net prospectus expense ratio from the fund's prospectus. Prospectus-report expense ratios reflect the actual fees charged during a particular fiscal year. The prospectus expense ratio for a fund of funds is the wrap or sponsor fee only. The expense ratio expresses the percentage of assets deducted each fiscal year for fund expenses, including 12b-1 fees, management fees, administrative fees, operating costs, and all other asset-based costs incurred by the fund. Portfolio transaction fees, or brokerage costs, as well as initial or deferred sales charges are not included in the expense ratio. The expense ratio, which is deducted from the fund's average net assets, is accrued on a daily basis. If the fund's assets are small, its expense ratio can be quite high because the fund must meet its expenses from a restricted asset base. Conversely, as the net assets of the fund grow, the expense percentage should ideally diminish as expenses are spread across the wider base. Funds may also opt to waive all or a portion of the expenses that make up their overall expense ratio. The Morningstar peer universe is based off all available share classes.

Definitions

R-Squared (R2): The diversification measure R2 indicates the percentage of volatility in portfolio returns which can be “explained” by market volatility. This statistic indicates the degree to which the observed values of one variable, such as the returns of a managed portfolio, can be explained by, or are associated with the values of another variable, such as a Market Index. The R2 values generally range from 0.0 to 1.0. An investment with an R2 of 1.0 is perfectly correlated with the market whereas an investment with an R2 of 0.0 will behave independently of the market. An R2 of 0.95, for example, implies that 95% of the fluctuations in a portfolio are explained by fluctuations in the market.

Recovery Period: The time it takes for the asset to recover all value that was lost during its Max Drawdown period.

Regional Allocation: This data set provides a breakdown of the geographical exposure of a fund's stock assets. Regional exposure summarizes a portfolio's exposure to geopolitical risk, and it also provides a reference point for understanding fund returns. Morningstar Categories are assigned based on three years of regional exposure.

- **% Emerging Market:** This data set provides a broad breakdown of an investment's geographical exposure in the Emerging Market region. Each region's exposure is presented as a percentage of non-cash equity assets held by the fund. Regional exposure information summarizes a portfolio's exposure to geopolitical risk.
- **% Developed Country:** This data set provides a broad breakdown of an investment's geographical exposure in the Developed Country region. Each region's exposure is presented as a percentage of non-cash equity assets held by the fund. Regional exposure information summarizes a portfolio's exposure to geopolitical risk.

Return: Expressed in percentage terms, Morningstar's calculation of total return is determined each month by taking the change in monthly net asset value, reinvesting all income and capital-gains distributions during that month, and dividing by the starting NAV. Reinvestments are made using the actual reinvestment NAV, and daily payoffs are reinvested monthly. Unless otherwise noted, Morningstar does not adjust total returns for sales charges (such as front-end loads, deferred loads and redemption fees), preferring to give a clearer picture of a fund's performance. The total returns do account for management, administrative, 12b-1 fees and other costs taken out of fund assets. Total returns for periods longer than one year are expressed in terms of compounded average annual returns (also known as geometric total returns), affording a more meaningful picture of fund performance than non-annualized figures.

Standard Deviation (StdDev): A measure of the extent to which observations in a series vary from the arithmetic mean of the series. The Standard Deviation of a series of asset returns is a measure of volatility or risk of the asset.

Sharpe Ratio: The Sharpe Ratio indicates the excess return per unit of total risk as measured by Standard Deviation. It is a ratio of the arithmetic average of excess returns over the risk free rate to the Standard Deviation. The Sharpe Ratio is a measure of the premium earned for the risk incurred by the portfolio.

Tracking Error (Excess Standard Deviation): Tracking Error is a measure of how closely an investment's returns track the returns of the selected Market Index. It is the annualized Standard Deviation of the differences between the investment's and the associated index's returns. If an investment tracks its associated index closely, then Tracking Error will be low. If an investment tracks its associated index perfectly, then Tracking Error will be zero.

Up Market (Mkt) Capture Ratio: Up Market Capture Ratio is a measure of a product's performance in up markets relative to the market itself. An up market is one in which the market's return is greater than or equal to zero. The higher the investment's Up Market Capture Ratio, the better the investment capitalized on a rising market.

Up Market Average Return: Average monthly return over the time period analyzed in which the market (benchmark) earned a positive return.

Index Definitions

S&P Target Date Index Series: Comprises twelve multi-asset class indices, each corresponding to a particular target retirement date. The asset allocation for each index in the series is determined once a year through survey of large fund management companies that offer target date products. Each index is fully investable, with varying levels of exposure to equities, fixed income and commodities.

Dow Jones Target Date Indices: Comprise a series of risk allocations corresponding to target date years. They are composed of sub-indices ranging across several asset classes. The indices serve as market risk-sensitive benchmarks for target date, or "lifecycle", funds, which are typically used within defined contribution retirement plans or to meet other long-term capital accumulation goals. The indices adjust their asset allocations over time to reflect reductions in potential risk as an investor's target date approaches. This aspect of asset class exposure is frequently referred to as a "target date glide path", wherein total equity exposure typically lessens with the passage of time.

Morningstar Lifetime Allocation Index Family: The index family is designed to meet the benchmarking needs of target-date investors by offering an objective yardstick for performance comparison. Conceptually, the Morningstar Lifetime Allocation Index family are indexes of indexes. These are a broadly diversified set of indices that helps investors mitigate the challenges related to rising life expectancies, evolving risk appetites, inflation in major retirement expense categories, and postretirement income investing.

Category Universe / Benchmark Assignments:

Target Date	Morningstar Category	TDF Benchmark
2065	Target-Date 2065+	S&P Target Date 2060+
2060	Target-Date 2060	S&P Target Date 2060+
2055	Target-Date 2055	S&P Target Date 2055
2050	Target-Date 2050	S&P Target Date 2050
2045	Target-Date 2045	S&P Target Date 2045
2040	Target-Date 2040	S&P Target Date 2040
2035	Target-Date 2035	S&P Target Date 2035
2030	Target-Date 2030	S&P Target Date 2030
2025	Target-Date 2025	S&P Target Date 2025
2020	Target-Date 2020	S&P Target Date 2020
2015	Target-Date 2015	S&P Target Date 2015
2010	Target-Date 2000-2010	S&P Target Date 2010
2005	Target-Date 2000-2010	S&P Target Date 2010
Income	Target-Date Retirement	S&P Target Date Retirement Income

Questionnaire Results

Question	Answer
Name of plan?	TDF Report
What are the sponsor's goals for the plan?	Retire by the age of 63
Active vs. Passive	
View on active management?	No view on whether it will improve outcomes
Open vs. Proprietary	
Do you prefer all underlying strategies be overseen by the same organization?	Mix
Non-Traditional Asset Classes	
Is there a significant portion of your workforce that may be uncomfortable with the use of non-traditional assets (due to either perceived complexity and/or associated fees)?	Comfortable with non-traditional assets
Preferred asset allocation?	No preference on asset allocation
View towards non traditional asset classes?	No view on whether it will improve outcomes
To vs. Through	
Plan objective?	Balance savings and income
Can the current record-keeper support conversion to and administration of a lifetime income stream?	No
For the average TDF user, is the TDF the only investment in the plan?	No
Upon reaching age 65, does the average participant in fact retire?	Yes
Upon retirement, does the average participant leave most assets in the plan?	No
Are most TDF users in the plan equipped to set up and determine an appropriate lifetime income amount from the amount they saved?	No
Glide Path Shape	
Does the plan have a view on management of retirement risks BEFORE retirement?	Minimize longevity risk
Does the plan have a view on management of retirement risks NEAR retirement?	Balance both
Does the plan have a view on management of retirement risks IN retirement?	Minimize volatility risk
How important is it to manage inflation risk to the plan BEFORE retirement?	Less important
How important is it to manage inflation risk to the plan NEAR retirement?	Somewhat important
How important is it to manage inflation risk to the plan IN retirement?	Extremely important
What is the age range for the average TDF user in the plan?	Less than 55
What is the deferral rate for the average TDF user?	Average saver (6-10%)
What is the income range for the average TDF user in the plan?	Average
Does the plan have auto-enroll or auto-escalation features?	None
Does the sponsor offer a DB plan or other retirement income support through qualified or non-qualified plans that may be available to the average TDF user?	Yes
Does the plan prefer to minimize downside risk or maximize upside potential?	Balance both