

Prudent Benchmarking of Target Date Funds and Actuarial Glidepaths

April 19, 2013

Presented by:

Gregory W. Kasten, MD, MBA, CFP®, CPC, AIFA® Chief Executive Officer Unified Trust Company, NA



Target Date Trends in 2013

- Target date funds continue to attract strong flows relative to other mutual fund categories and will account for 40-50% of DC assets in a few years
- Big Three continue to dominate market share
- Index-based series growing at faster rate than active
- Fees continue to trend downward, but wide disparities persist
- Since June 2009, expenses based on lowest-cost share class method have declined from 0.91% annually to 0.83%



Target Date Trends in 2013

- Fees range from 0.18% at Vanguard to 1.55% at Oppenheimer
- Losses during 2008 have prompted heightened awareness of risk surrounding near-retirees
- Benchmarking still very difficult, most plan sponsors and advisors do not understand the structure
- Prospectus benchmarks vary widely with S&P 500 most common, but over 20 different benchmarks listed across 43 fund families



PPA 2006 Safe Harbor

With the passage of the Pension Protection Act of 2006 ("PPA"), it is now easier for plan sponsors to increase participation in their plans without exposing themselves to the liability associated with making default investments.

This is because PPA added a new fiduciary protection to ERISA for default investments. Specifically, the PPA added ERISA §404(c)(5), which provides for Qualified Default Investment Alternatives or "QDIAs" (the "QDIA rule").

These rules are helpful when employees fail to make an investment election.



PPA 2006 Safe Harbor

The QDIA rule provides that, for default investments made in accordance with a regulation issued by the DOL, fiduciaries are entitled to a statutory defense against any claims by participants that they were improperly invested.

This is sometimes called a fiduciary "safe harbor".

There are three types of safe harbor: age based fund, risk based fund and/or a managed account.



Useful Reference Articles—FAB 2008-03

U.S. Department of Labor

Employee Benefits Security Administration Washington, D.C. 20210



FIELD ASSISTANCE BULLETIN NO. 2008-03

DATE: APRIL 29, 2008

MEMORANDUM FOR: VIRGINIA C. SMITH

DIRECTOR OF ENFORCEMENT REGIONAL DIRECTORS

FROM: ROBERT J. DOYLE

DIRECTOR OF REGULATIONS AND INTERPRETATIONS

SUBJECT: GUIDANCE REGARDING QUALIFIED DEFAULT INVESTMENT

ALTERNATIVES (29 CFR § 2550.404c-5)

BACKGROUND

On October 24, 2007, the Department of Labor (Department) published a final regulation providing relief from certain fiduciary responsibilities under the Employee Retirement Income Security Act (ERISA) for investments made on behalf of participants or beneficiaries who fail to direct the investment of assets in their individual accounts. See 29 CFR § 2550.404c-5 (hereafter referred to as the "QDIA regulation"). Since publication of the QDIA regulation, a number of issues have been raised concerning the scope and meaning of various provisions of the QDIA regulation. This Bulletin is intended to supplement the QDIA regulation by providing guidance, in a question and answer format, on a number of the most frequently asked questions.

QUESTIONS AND ANSWERS

SCOPE OF QDIA REGULATION

Q-1. To what extent does the QDIA regulation relieve a plan sponsor from fiduciary liability when the plan sponsor chooses to create and manage a qualified default

172 FR 60452 (Oct. 24, 2007).



29 C.F.R. §2550.404c-5(b)(1) Still Requires Investment Monitoring

Q-1. To what extent does the QDIA regulation relieve a plan sponsor from fiduciary liability when the plan sponsor chooses to create and manage a qualified default investment alternative (QDIA) itself using a mix of the plan's available investment alternatives?

A-1. A plan sponsor that chooses to create and manage a QDIA itself may be relieved of liability for decisions to invest all or part of a participant's or beneficiary's account in a QDIA only if the plan sponsor is a named fiduciary (see § 2550.404c-5(e)(3)(i)(C)).

The plan sponsor would not be relieved of liability for the management of the QDIA (see § 2550.404c-5(b)(1)(ii)) or the prudent selection and monitoring of the QDIA (see § 2550.404c-5(b)(3)).



Useful Reference Articles from Morningstar





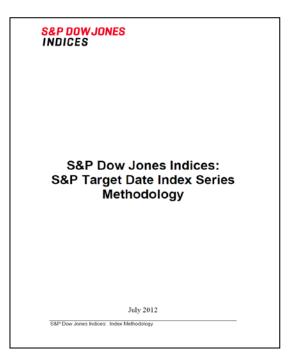




Useful Reference Articles from Standard and Poors









Target Date Retirement Funds Tips for ERISA Plan Fiduciaries

Target Date Retirement Funds -Tips for ERISA Plan Fiduciaries



U.S. Department of Labor Employee Benefits Security Administration February 2013

Target date retirement funds (also called target date funds or TDS) have become an increasingly popular investment option in 401(k) plans and similar employee-directed retirement plans. The U.S. Department of Labo's Employee Benefits Security Administration (EBSA) prepared the following general guidance to assist plan flacionire in selecting and monitoring TDS and other investment options in 401(k) and similar participant-directed individual occurry plans. Employees and other plan flacionires can learn more about their fluidary responsibilities under the Employee Retirement Income Security Act of 1974 (ERISA) by visiting EBSA's website at twen (Act of polyer based on the plans of the U.S. and the Company of the Compa

Target Date Fund Basics

With the growth of 401(s) and other individual account retirement plans, many more participants are responsible for investing their retirement savings. Target date retirement funds, or IDFs. can be attractive investment options for employees who do not want to actively manage their retirement savings. IDFs automatically rebalance to become more connectative as an employee gest obser to retirement. The 'target date' refers to a target retirement date, and often is part of the name of the fund. For example, you might see 1DFs with names like "Portfolio 2009." "Retirement Part 2009. The series 2009" that are designed for individuals who intend to retire during or near the year 2030. Because of these features, many plan sponsors decide to use TDFs as their plan's qualified default interstement attensative (QDM) under Department of Labor regulations. A QDM is a default investment option chosen by a plan fiduciary for participants who fail to make an election regarding investment of their account balances.'

TDFs offer a long sterm investment strategy based on holding a mix of stocks, bonds and other investments (this mix is called an asset allocation) that automatically changes over time as the participant ages. A TDFs initial asset allocation, when the target date is a number of years away, usually consists mostly of stocks or equity investments, which often have greater petential for higher returns but also can be more volatile and carry greater investment risk. As the target retriement date approaches (and often continuing after the target date), the fund's asset allocations highs to include a higher proportion of more conservative investments, like bonds and cash instruments, which generally are less volatile and carry less investment risk than stocks. The shift in the asset allocation over time is called the TDFs 'guide path, it is important to know whether a target date fund's glide path uses a "to retirement" or a "through retirement" approach. A "to" approach reduces the TDFs equity exposure over time to its most conservative point at the target date. A "through" approach reduces equity exposure through the target date so it does not reach its most conservative point until years later.

Within this general Framework, however, there are considerable differences among TDFs offered by different providers, even among TDFs with the same target date. For example, TDFs may have different investment strategies, gide paths, and investment-related fees. Because these differences can significantly affect the way a TDF performs, it is important that flouriaries understand these differences when selecting a TDF as an investment option for their plan.

- Establish a process for comparing and selecting TDFs.
- Establish a process for the periodic review of selected TDFs.
- Understand the fund's investments the allocation in different asset classes (stocks, bonds, cash), individual investments, and how these will change over time.
- Review the fund's fees and investment expenses.
- Inquire about whether a custom or non-proprietary target date fund would be a better fit for your plan.
- Develop effective employee communications.
- Take advantage of available sources of information to evaluate the TDF and recommendations you received regarding the TDF selection.
- Document the process.





Understanding Glidepath Benchmarks



Essential Characteristics of a Benchmark

- Unambiguous
- Investable
- Measurable
- Appropriate
- Reflective of current investment opinions
- Specified in advance



1. S&P Target Date Series

Modified peer group average ("consensus") based on survey of fund families with AUM of \$100 million or more. If an asset class is included in 25% of target maturity funds it is included in the average. Summed survey results lead to the equity glide path.

9 asset classes included in the index.

2. Dow Jones US Target Indexes

Semi-variance-based glide path. Starting 40 years prior to the target date, the funds target 90% of the semi-variance of equity. This decreases to 20% of the semi-variance of equity 10 years after the retirement date.

10 asset classes included in the index.

3. Morningstar Lifetime Allocation

Three risk tracks; aggressive, moderate and conservative. Moderate usually used in most reports.

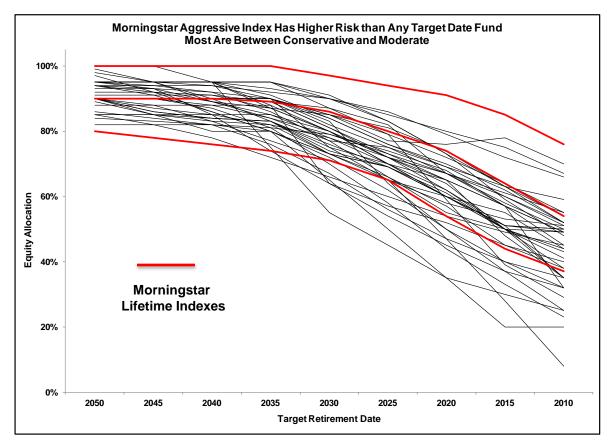
Modern Portfolio Theory (MPT)-based glide path evolves with the median U.S. citizen's total economic situation--including an evolving picture of their financial capital, human capital, and retirement income liability.

3. Morningstar Lifetime Allocation

The glide paths attempt to maximize a participant's total financial health by investing their financial capital in such a way that it brings their total wealth closest to MPT's Sharpe maximizing portfolio (adjusted for risk preferences and liabilities).

19 asset classes included in the index.

Most Target Date Funds Fall Between the Morningstar Moderate and Conservative Lifetime Index Bands

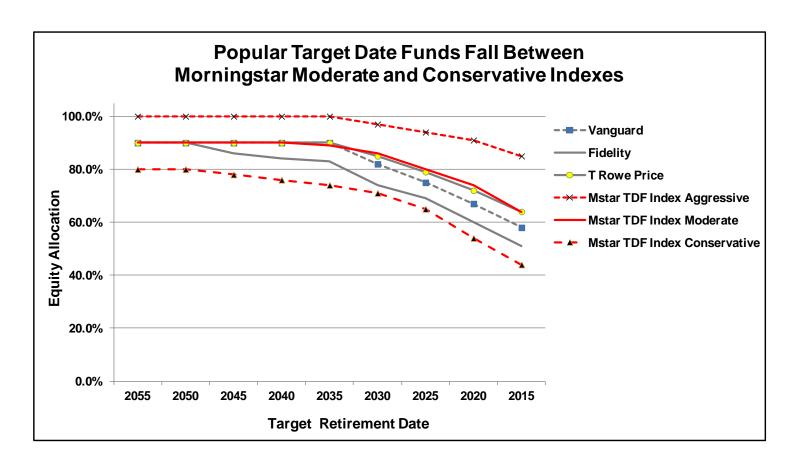


Source: Data from all 43 fund family TDF holdings,

Morningstar Target-Date Series Research Paper: 2012 Industry Survey, May, 2012

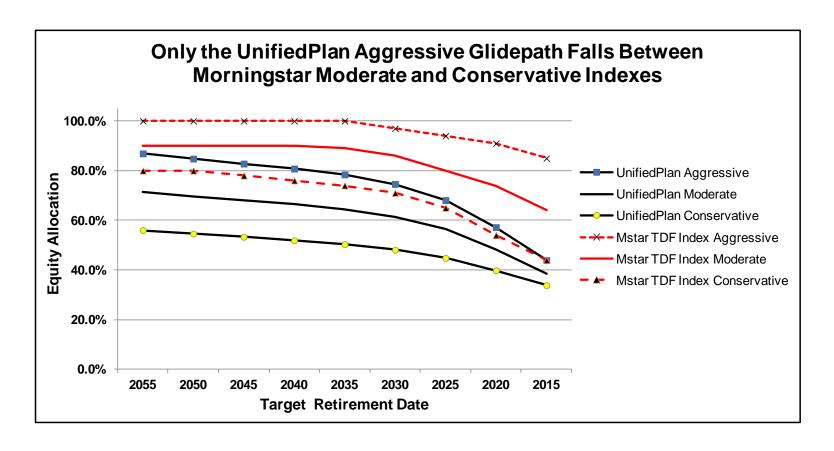


"Big Three" Target Date Funds Fall Between Morningstar Moderate and Conservative Index Glidepaths



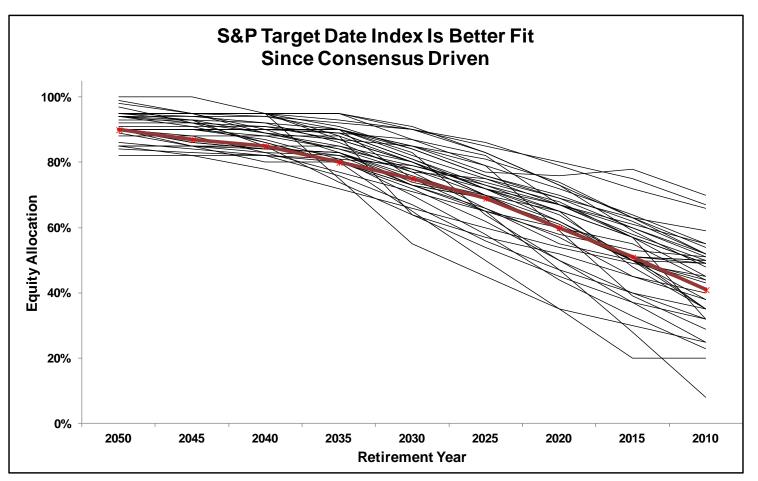


Only the UnifiedPlan Aggressive Glidepath Falls Between Morningstar Moderate and Conservative Index Glidepaths





Consensus Driven S&PTarget Date Indexes Fit Better to TDF Universe



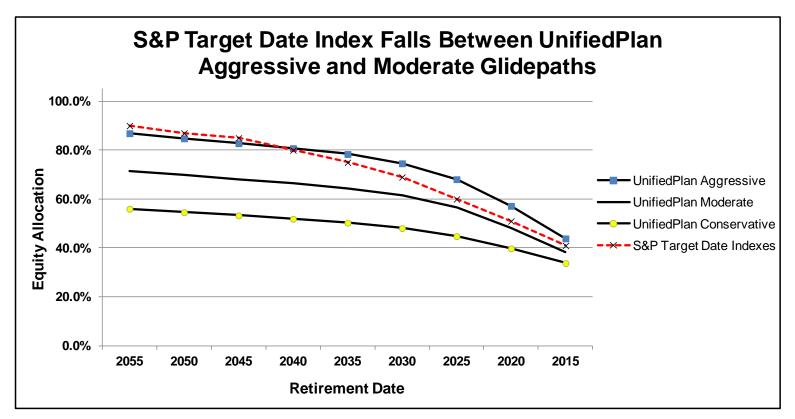
Source: Data from all 43 fund family TDF holdings,

Morningstar Target-Date Series Research Paper: 2012 Industry Survey, May, 2012

Source: S&P Target Date Scorecard data as of December 31, 2011



S&PTarget Date Indexes Fit Better to UnifiedPlan Aggressive and Moderate Glidepaths



Source: Data from all 43 fund family TDF holdings,

Morningstar Target-Date Series Research Paper: 2012 Industry Survey, May, 2012

Source: S&P Target Date Scorecard data as of December 31, 2011



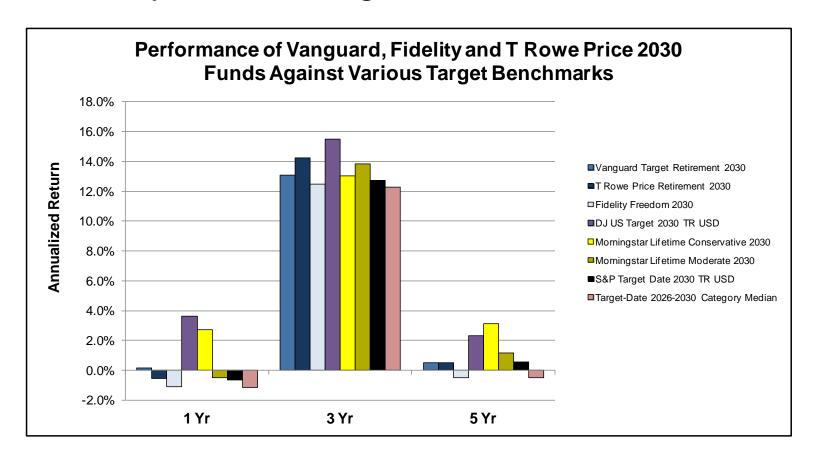
Most Target Date Funds Underperform the S&PTarget Date Indexes

Fraction of TDF Mutual Funds Lagging S&P Index				
Fund Category	Comparison Index	One Year	Three Year	Five Year
Retirement Income	S&P Target Date Ret Income	87.2%	17.6%	62.5%
Target 2010	S&P Target Date 2010	80.8%	18.2%	82.4%
Target 2015	S&P Target Date 2015	78.9%	13.8%	76.5%
Target 2020	S&P Target Date 2020	71.8%	22.9%	87.0%
Target 2025	S&P Target Date 2025	77.8%	23.1%	85.7%
Target 2030	S&P Target Date 2030	79.5%	28.6%	91.3%
Target 2035	S&P Target Date 2035	85.7%	36.0%	85.7%
Target 2040	S&P Target Date 2040	84.6%	40.0%	80.0%
Target 2045+	S&P Target Date 2045	89.0%	42.6%	63.2%

Source: S&P Target Date Scorecard data as of December 31, 2011

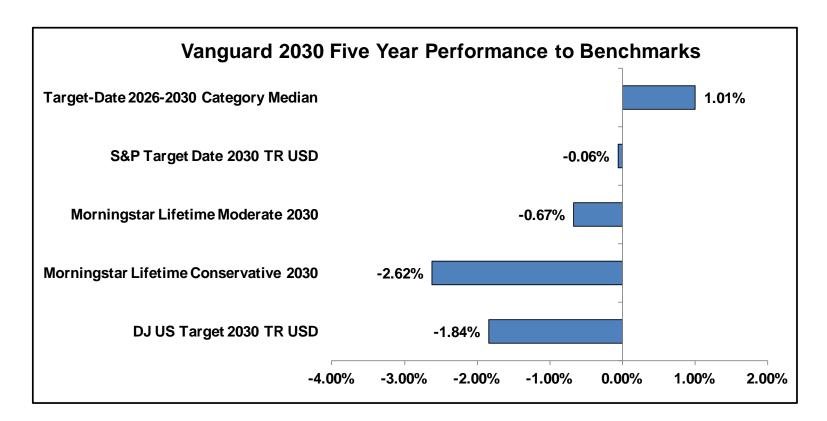


"Big Three" Target Date Funds Have Generally Lagged All TDF Benchmarks, with Fidelity Performing the Worst



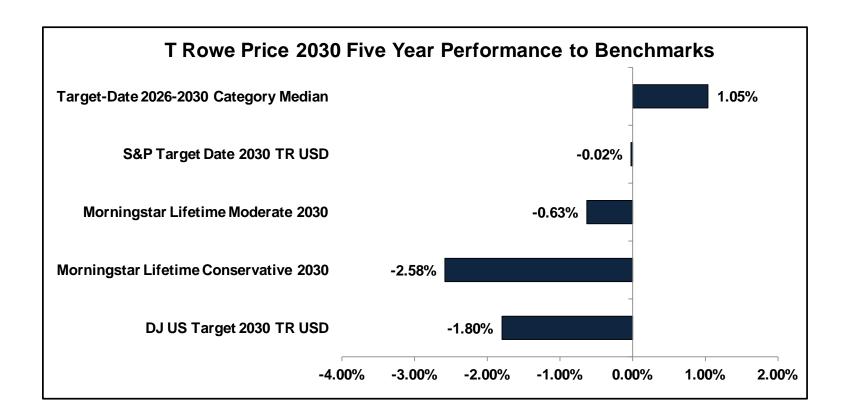


"Big Three" Target Date Funds Have Generally Lagged TDF Benchmarks, with Fidelity Performing the Worst



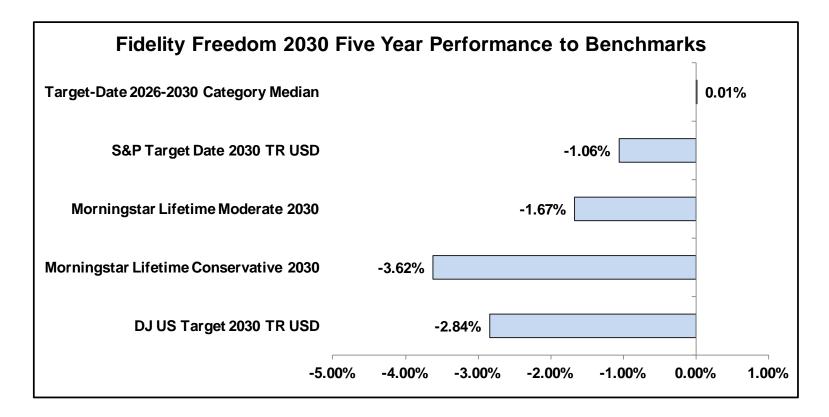


"Big Three" Target Date Funds Have Generally Lagged TDF Benchmarks, with Fidelity Performing the Worst



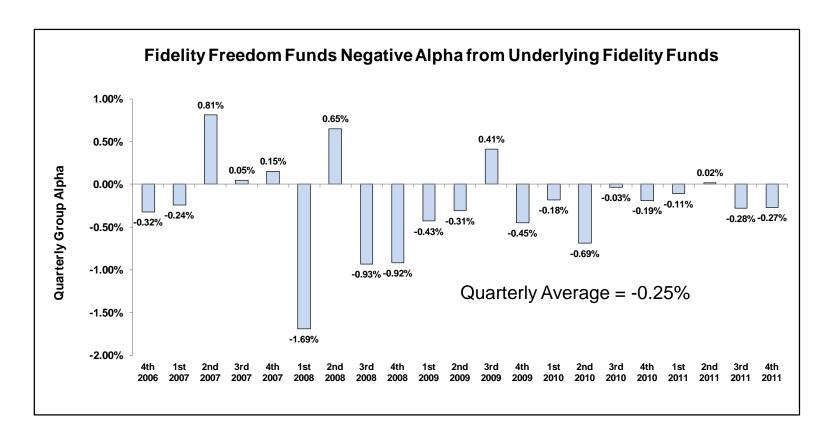


"Big Three" Target Date Funds Have Generally Lagged TDF Benchmarks, with Fidelity Performing the Worst





Fidelity Freedom Performed the Worst Because of Negative Alpha in Underlying Proprietary Fidelity Funds

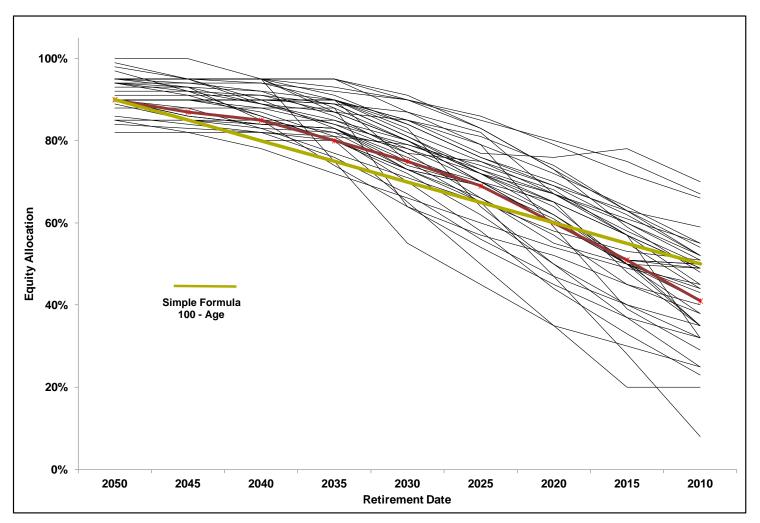


Source: Morningstar Using a Target Date Benchmark, April, 2012

Target Date Glidepath Benchmarking Conclusions

- 1. There is no perfect glidepath benchmark since glidepaths vary widely. None are investable.
- 2. Morningstar Lifetime Moderate Index is most popular, but more aggressive than many funds.
- 3. S&PTarget Date Series is closest to actual fund holdings and industry universe.
- 4. No glidepath is right or wrong—prudence depends upon the individual participant's asset/liability funded status.

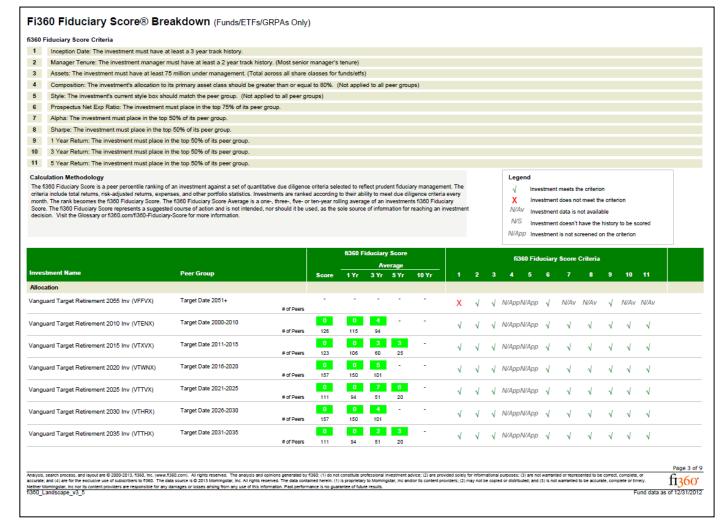
Simple Formula of "100- Age" Works Just As Well for "Ideal" Glidepath



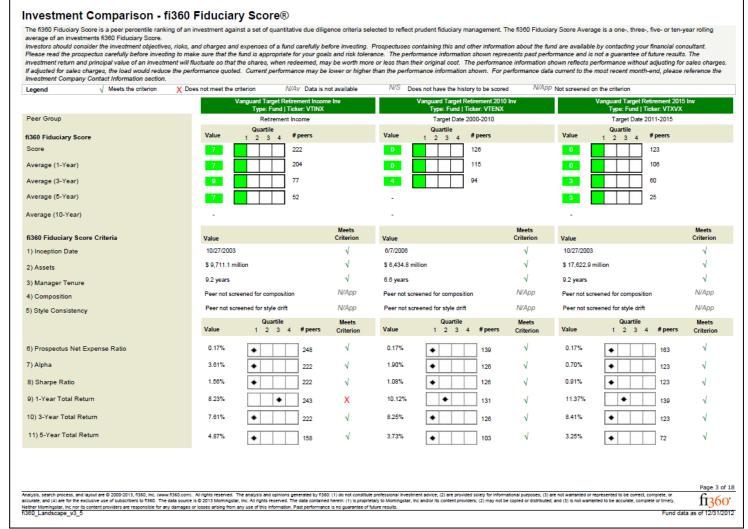
Target Date Glidepath Benchmarking Conclusions

- 5. Most target date funds lag behind all the target date glidepath benchmarks.
- 6. Lagging performance can be explained by fees, proprietary sub-portfolio funds that underperform their benchmarks, and asset allocation significantly different from the benchmark.
- 7. Since target date manufacturers are not ERISA fiduciaries, they can select imprudent sub-portfolio funds and face no fiduciary liability.

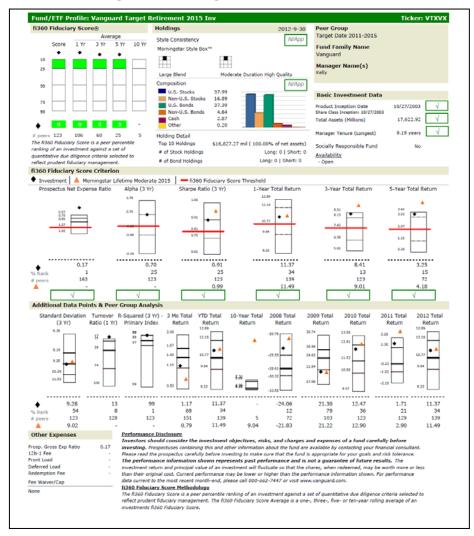
Fiduciary Analytics Target Date Benchmarking— Overview



Fiduciary Analytics Target Date Benchmarking—Moderate Detail



Fiduciary Analytics Target Date Benchmarking—High Detail



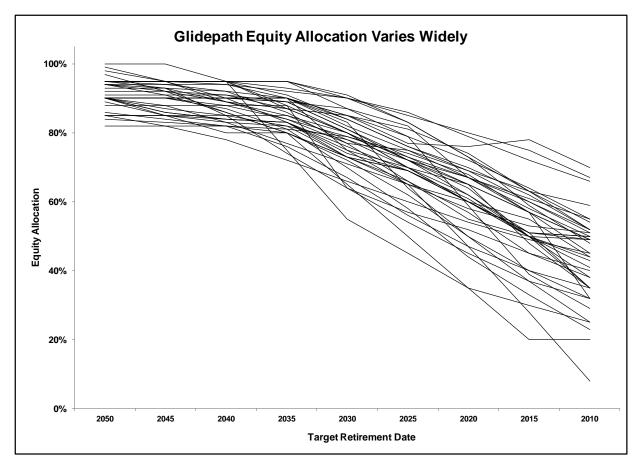




Understanding Glidepath Risk



Variability of Target Date Fund Glidepath Risk <u>Increases</u> as the Retirement Date Draws Closer

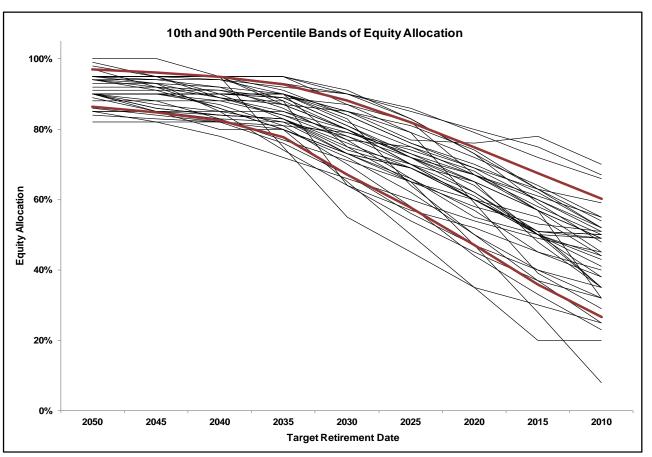


Source: Data from all 43 fund family TDF holdings,

Morningstar Target-Date Series Research Paper: 2012 Industry Survey, May, 2012



10th and 90th Percentile Equity Allocation Bands Show Significant Variability



Source: Data from all 43 fund family TDF holdings,

Morningstar Target-Date Series Research Paper: 2012 Industry Survey, May, 2012



10th and 90th Percentile Equity Allocation Bands Increase Variability When Uncertainty Should be Decreasing

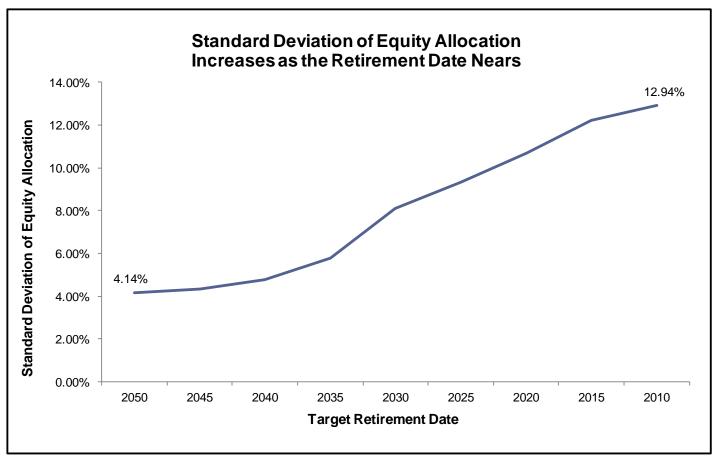
	2050	2045	2040	2035	2030	2025	2020	2015	2010
Mean	91.7%	90.5%	88.6%	85.3%	77.6%	69.9%	61.0%	51.6%	43.4%
St Dev —	→ 4.1%	4.3%	4.8%	5.8%	8.1%	9.3%	10.7%	12.2%	12.9%
90th Percentile	97.0%	96.2%	94.8%	92.8%	88.1%	82.0%	74.9%	67.5%	60.2%
10th Percentile	86.3%	84.8%	82.4%	77.7%	67.1%	57.7%	47.1%	35.8%	26.6%

Source: Data from all 43 fund family TDF holdings,

Morningstar Target-Date Series Research Paper: 2012 Industry Survey, May, 2012



Variability of Glidepath Risk Increases as the Retirement Date Draws Closer

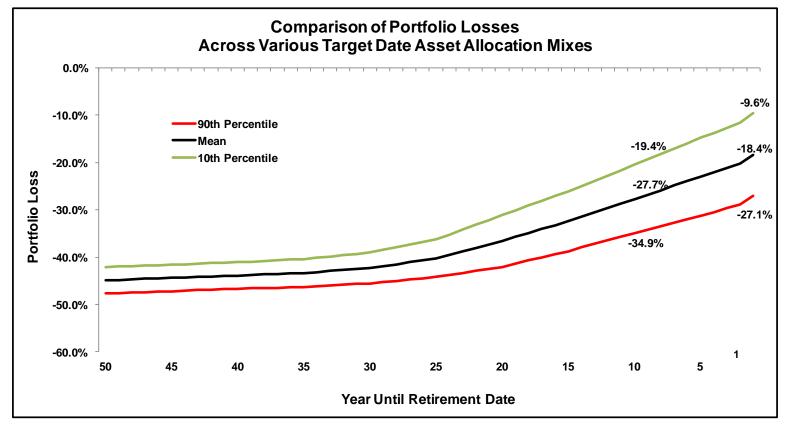


Source: Data from all 43 fund family TDF holdings,

Morningstar Target-Date Series Research Paper: 2012 Industry Survey, May, 2012



10th and 90th Percentile Equity Allocation Bands Show Significant Risk Variability— Especially As Retirement Approaches

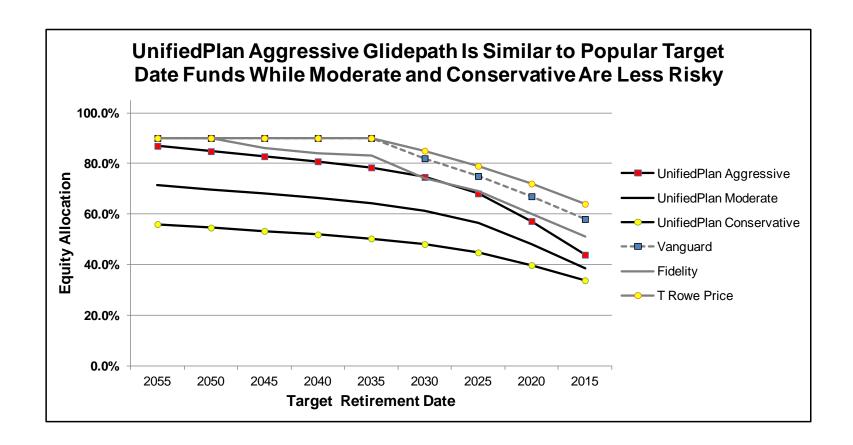


Source: Data from all 43 fund family TDF holdings,

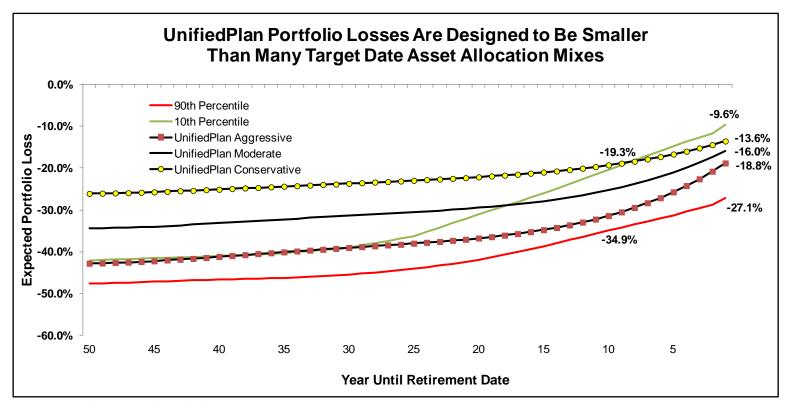
 $Morning star\ Target-Date\ Series\ Research\ Paper:\ 2012\ Industry\ Survey,\ May,\ 2012$



The UnifiedPlan Aggressive Glidepath Is Similar to "BigThree" Target Date Funds



UnifiedPlan Portfolios Are Designed to Be Less Risky and More Consistent — Especially As Retirement Approaches



Source: Data from all 43 fund family TDF holdings, Morningstar Target-Date Series Research Paper: 2012 Industry Survey, May, 2012



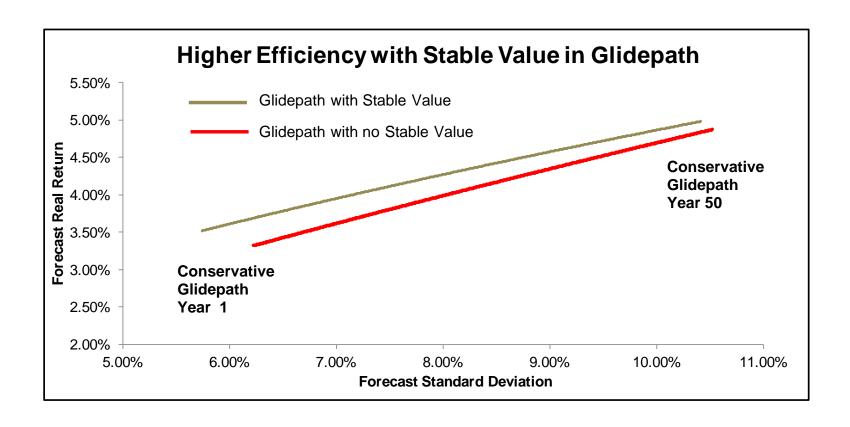
Benchmarking "To" Versus "Through"

- One of the reasons for the wide disparity in ending equity allocation is the "to" versus "through" philosophy.
- 2. The 'through" approach assumes participants will leave their money in the TDF (plan) for another 20-30 years after beginning retirement.
- 3. Yet most (> 83%) participants withdraw or rollover all their funds within 3 years of terminating employment.

Why No Stable Value in Target Date Funds?

- 1. Stable Value not available in any mutual fund
- No true open architecture since built from proprietary underlying mutual funds
- 3. Lack of critical thinking and fiduciary process

Stable Value Addition to Portfolio Reduces Risk and Increases Efficiency



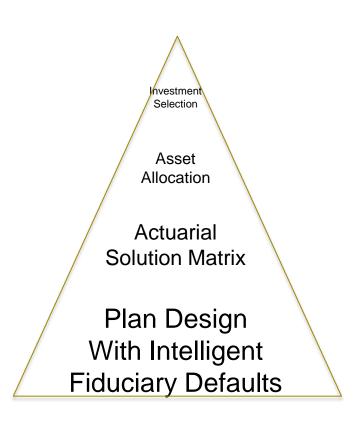


Individual Asset/Liability
Funded Status Is the Most
Important Glidepath
Determinant



The Four Key Parts to Retirement Success are Like a Pyramid







Without Knowing the Participant's Funded Status There Cannot Be a "Correct" Glidepath

Using the Asset/Liability Funded Ratio to Better Manage Target Date Risk

Participant #1 "Steady Saver"

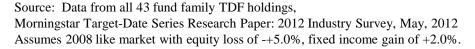
- √ 40 years old
- ✓ Earns \$50,000 per year
- ✓ Saves 8% of pay in total
- ✓ Has 1 year's pay saved in plan
- √ Wants to retire at 65 (25 years from now)
- ✓ Seeks to replace 70% of income
- ✓ Social Security replaces 32% of pay

Using the Asset/Liability Funded Ratio to Better Manage Target Date Risk

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Participant #1 "Steady Saver"

Age 65 infl. Adj. plan liability = $363,213
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10<sup>th</sup> percentile TDF asset forecast = $318,108
50<sup>th</sup> percentile TDF asset forecast = $331,560
90<sup>th</sup> percentile TDF asset forecast = $345,639
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WARNING!

You Generally Cannot Solve a Funding Shortfall With Riskier Portfolios

Using the Asset/Liability Funded Ratio to Better Manage Target Date Risk

Participant #1 "Steady Saver"

All TDFs leave the participant underfunded at age 65, but aggressive looks closest!

10th percentile TDF A/L funded ratio = 0.876

50th percentile TDF A/L funded ratio = 0.913

90th percentile TDF A/L funded ratio = 0.952



90th Percentile Exposes the Participant to Much Greater Losses Near Retirement and a Greatly Reduced Funded Ratio

Participant #1 "Steady Saver"

Age 65 account value after pre-retirement year bear market-aggressive is -31% underfunded!

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10<sup>th</sup> percentile equity = -9.6%, funded = 0.792
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$$50^{th}$$
 percentile equity = -18.4%, funded = 0.745

$$90^{th}$$
 percentile equity = -27.1%, funded = 0.694

Unified Trust asset/liability calculations assume real (inflation adjusted) net equity returns of +5.0%, fixed income of +2.0%.



Actuarial Solution Matrix Can Still Keep the Participant Fully Funded

Participant #1 "Steady Saver"

Age 67 Actuarial Solution Matrix before the final year bear market. (ASM Solution 0 A)

ASM Actuar	al Solution Matrix
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Year	0	1	2	3
С	0.905	1.140	1.473	1.971
M	0.964	1.218	1.578	2.117
A	1.020	1.291	1.677	2.256

Unified Trust asset/liability calculations assume real (inflation adjusted) net equity returns of +5.0%, fixed income of +2.0%.



Actuarial Solution Matrix Can Still Keep the Participant Fully Funded

Participant #1 "Steady Saver"

Age 67 Actuarial Solution Matrix after the final year bear market. (ASM Solution 1 M)

ASM Actuarial Solution Matrix						
Year	0	1	2	3		
С	0.782	0.985	1.273	1.704		
M	0.810	1.023	1.326	1.779		
Α	0.828	1.048	1.362	1.831		

Unified Trust asset/liability calculations assume real (inflation adjusted) net equity returns of +5.0%, fixed income of +2.0%.



The Aggressive Target Date Fund Allocation Is Even Worse for the Near Retiree

Participant #2 "Just About Retired"

- √ 59 years old
- ✓ Earns \$50,000 per year
- ✓ Saves 15% of pay in total
- ✓ Has 5 year's pay saved in plan
- ✓ Wants to retire at 65 (6 years from now)
- ✓ Seeks to replace 70% of income
- ✓ Social Security replaces 32% of pay

Using the Asset/Liability Funded Ratio to Better Manage Target Date Risk

Participant #2 "Just About Retired" Age 65 infl. Adj. plan liability = \$363,213

10th percentile TDF asset forecast = \$349,821 50th percentile TDF asset forecast = \$358,617 90th percentile TDF asset forecast = \$367,607

Source: Data from all 43 fund family TDF holdings, Morningstar Target-Date Series Research Paper: 2012 Industry Survey, May, 2012 Assumes 2008 like market with equity loss of -+5.0%, fixed income gain of +2.0%.



Using the Asset/Liability Funded Ratio to Better Manage Target Date Risk

Participant #2 "Just About Retired"

The aggressive (90th percentile) TDF forecast to be fully funded at 65.

10th percentile TDF A/L funded ratio = 0.963

50th percentile TDF A/L funded ratio = 0.987

90th percentile TDF A/L funded ratio = 1.012



90th Percentile Exposes the Participant to Much Greater Losses Near Retirement and a Greatly Reduced Funded Ratio

Participant #2 "Just About Retired"

Age 65 account value after pre-retirement year bear market— 90th is now -26% underfunded!

10th percentile equity = -9.6%, funded = 0.871 50th percentile equity = -18.4%, funded = 0.806 90th percentile equity = -27.1%, funded = 0.738

Unified Trust asset/liability calculations assume real (inflation adjusted) net equity returns of +5.0%, fixed income of +2.0%.



Actuarial Solution Matrix Can Still Keep the Participant Fully Funded

Participant #2 "Just About Retired"

Age 67 Actuarial Solution Matrix before the final year bear market. (ASM Solution 0 C)

ASM Actua	rial Solution	Matrix
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Year	0	1	2	3
C	1.166	1.475	1.912	2.567
M	1.185	1.503	1.955	2.631
Α	1.205	1.532	1.997	2.694

Unified Trust asset/liability calculations assume real (inflation adjusted) net equity returns of +5.0%, fixed income of +2.0%.



Actuarial Solution Matrix Can Still Keep the Participant Fully Funded

Participant #2 "Just About Retired"

Age 67 Actuarial Solution Matrix after the final year bear market. (ASM Solution 0 C)

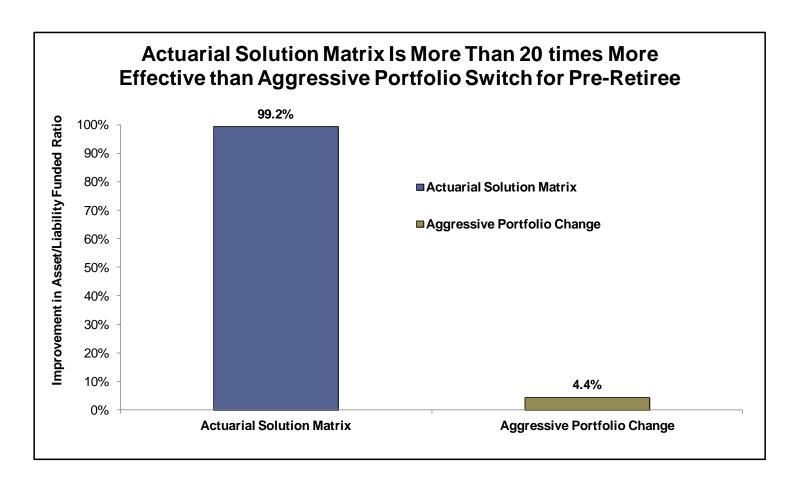
ASM	Actuarial	Solution	Matrix
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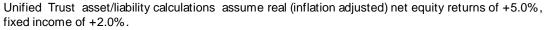
Year	0	1	2	3
С	1.008	1.275	1.653	2.218
M	0.996	1.263	1.642	2.211
А	0.978	1.243	1.621	2.187

Unified Trust asset/liability calculations assume real (inflation adjusted) net equity returns of +5.0%, fixed income of +2.0%.



The Actuarial Solution Matrix Is Much More Powerful than Just Investment Changes







Asset/Liability Funded Status Conclusions

- 1. The individual participant's funded status drives the glidepath allocation.
- 2. Target date funds do not know the individual participant's funded status.
- 3. Many, if not most, target date funds expose near retirees to significant risk just prior to retirement.
- 4. The Actuarial Solution Matrix is many times more effective than a simple portfolio change. It is not about "finding alpha".

Asset/Liability Funded Status

Conclusions

5. The individual participant's funded status information makes their asset allocation more effective.

Their investment performance results are better.

Variability is reduced by 30% and accounts are 10% more likely to hit targeted ending value.







Prudent Benchmarking of Target Date Funds and Actuarial Glidepaths

Questions?

Presented by:

Gregory W. Kasten, MD, MBA, CFP®, CPC, AIFA® Chief Executive Officer Unified Trust Company, NA



Disclosures

- 1. The UnifiedPlan reporting tool helps investors understand whether they are on course to achieve a successful retirement. The UnifiedPlan uses "asset liability" matching. The asset is the money forecast to be accumulated and the liability is the amount of money needed to pay for the retirement. For investors who are planning for retirement, the tool estimates the amount of funds required to meet their retirement spending goals and provides alternatives such as delaying retirement or lowering retirement spending for those who may not be able to save the required amount.
- 2. For investors who are already retired, the tool estimates the confidence that their portfolio will be able to sustain their desired spending throughout retirement. The tool uses a combination of deterministic methods and Monte Carlo simulation that consider factors that include saving and spending levels, long-term market expectations associated with the risk profile selected, pre- and in-retirement time horizons, and other sources of outside income.
- 3. The UnifiedPlan limitations relate to the large number of assumptions used in the analysis. The accuracy of these assumptions directly impacts the quality of the tool's assessment. Potential problems may include, but are not limited to, the use of inaccurate financial data by the investor, the selection of a risk tolerance by the investor that does not represent how their portfolio is actually invested, long term market expectations of risk, return, and inflation that are not achieved in the modeled time frame, the inclusion future income that is never received, and unforeseen life emergencies that require decreased saving before retirement, force an earlier retirement, or increase spending needs during retirement.
- 4. The UnifiedPlan is highly dependent upon assumptions of annual income and annual savings. Any variances or changes in the figures used should be reported immediately by the plan participant. Unified Trust is not responsible for any discrepancies in the data, or output from the UnifiedPlan tool.
- 5. All mutual fund and collective investment fund data was gathered from publicly available sources of information such as Standard & Poor's, Morningstar, Zephyr or vendors' own websites. We take reasonable care in collecting the data, and believe the data are accurate, but reserve the right to correct any errors. Individual mutual fund or collective fund performance data throughout the document are net of underlying fund expense ratios but gross of add-on expenses such as Trustee fees, administration fees, or advisory fees. The performance histories reported are simply dollar-weighted historical returns for the proposed funds and do not reflect the effects of rebalancing or fund replacements.



Disclosures

- 6. Any past performance information for the illustrated investment selections is not indicative of future returns but is merely a snapshot of historical performance. Past performance is not a guarantee of future performance. The investments are not FDIC insured.
- 7. Differences will probably exist between prospective and your actual results because events and circumstances frequently do not occur as expected, and those differences may be material, especially when making estimates over extended time periods. All figures are shown in current (inflation adjusted) dollars. The estimated inflation rate used in this analysis may vary over time.
- 8. The UnifiedPlan portfolio changes and time line changes for each participant are governed by the Plan Document, the Investment Policy Statement and the Benefit Policy Statement for their Plan.
- 9. The calculated 70% income replacement goal includes the estimated Social Security benefit. The actual Social Security benefit may be different from the estimated value.
- 10. Compensation in excess of the IRC 415 limit is excluded. All figures reported in current (inflation-adjusted) real dollars.
- 11. The projections or other information generated by the tool regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results, and are not guarantees of future results. Projected growth of assets is based Unified Trust Company's Projected Future Modeled Returns and the asset allocation of your portfolio for this goal. The graphical representations are an approximation taken from the direct path between the pertinent events tied to your goal. Indices are unmanaged, do not incur management fees or expenses, and cannot be invested in directly.
- 12. Neither the Plan Sponsor nor Unified Trust can guarantee that any participant will achieve a successful retirement. The UnifiedPlan reporting tool helps investors understand whether they are on course to achieve a successful retirement. The UnifiedPlan uses "asset liability" matching. The asset is the money forecast to be accumulated and the liability is the amount of money needed to pay for the retirement. For investors who are planning for retirement, the tool estimates the amount of funds required to meet their retirement spending goals and provides alternatives such as delaying retirement or lowering retirement spending for those who may not be able to save the required amount.
- 13. Projections are made based upon expected asset transfers. Actual transfer amounts may be different and may require a new retirement solution.

