Penn Mutual

Sound Investing, Made Easier®

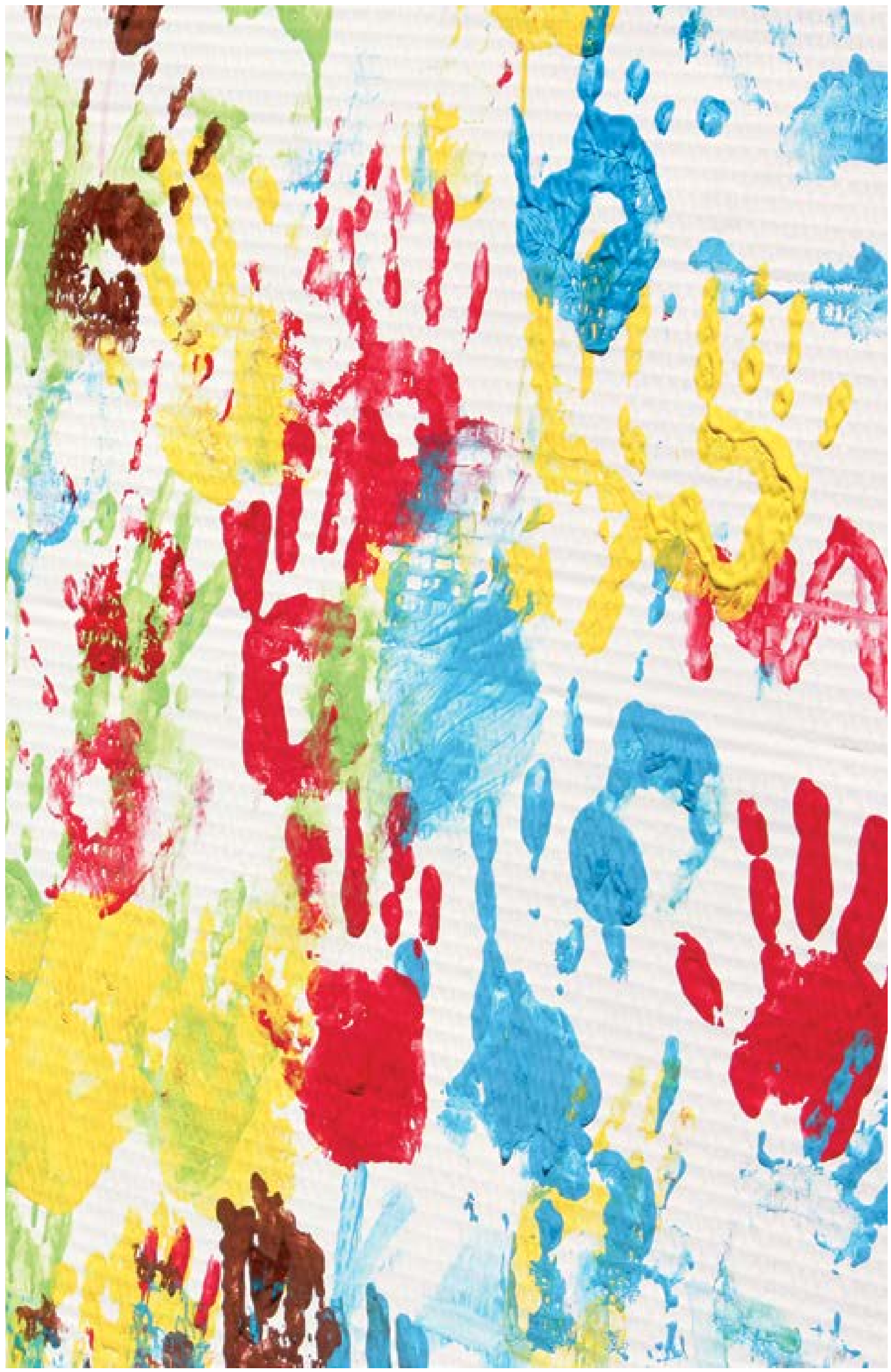
Variable Investment Options

Variable Investment Options

Discover What's Possible

You invest in order to reach your goals and realize your dreams. You know that the future — both for yourself and your family — will largely be shaped by the financial and investment decisions you make today.

Successful investing requires having both a sound investment plan and the right tools to bring that plan to life. That means having the kind of quality investment choices that offer diverse opportunities for return, while helping you manage the potential impact of volatility.



Through its variable life and annuity products, Penn Mutual provides a wide array of investment opportunities for a variety of investors. You have the option to create your own customized portfolio or choose a LifeStyle Asset Allocation Fund, which provides a completely diversified portfolio in one fund.

A **customized portfolio** allows you and your financial professional the freedom to create your own sound and well balanced portfolio of funds that you can adjust over time as your life progresses.

Choosing one of the **LifeStyle Asset Allocation Funds** provides you with a diverse portfolio of carefully chosen and closely monitored funds that are designed to address a specific level of risk.

Whether you choose the customized portfolio approach, or the automated LifeStyle Fund path, you will find that Penn Mutual has a fund solution that compliments your variable product, while helping to maximize earning potential.

These investment options are subject to market risk and may lose value. Past performance is not indicitive of future results.

A Fund Array as Varied as Your Needs

Solid Choices You Can Trust

Penn Mutual is highly selective in both the investments it offers and the investment firms with whom it forms relationships. Each investment option and firm available with our variable life and annuity products goes through a rigorous screening process, which involves both quantitative and qualitative analysis, as well as on-site consultations.

Among the things considered are each firms:

- Investment philosophy and process
- Investment expertise
- Continuity of solid fund performance
- Sound management and ownership structure
- Commitment to ethical practices

The performance and positioning of each investment option is regularly reviewed to help ensure that it continues to meet its objectives. Periodic adjustments are made to help keep the funds and your investment strategy on track.

Access to Leading Investment Managers

Penn Mutual has built strong relationships with some of today's best known investment management firms.

AllianceBernstein

Penn Mutual Asset Management

State Street Global Advisors | SSgA

American Century Investments

Janus Henderson Investors

T. Rowe Price

Cohen & Steers

MFS Investment Management

Ivy Investments

Eaton Vance

Morgan Stanley Investment Management

Vontobel

Goldman Sachs Asset Management

Neuberger Berman

Individual Investment Options

Fund Highlights

If you build your own portfolio, you can choose from any of our 24 individual funds that represent various asset classes and categories, managed by seasoned investment professionals.

Large Cap

Large Growth Stock Fund

T. Rowe Price Associates

Invests in common stocks of well-established companies that are believed to have long-term growth potential and an above-average rate of earnings growth

Large Core Growth Fund

Morgan Stanley Investment Management

Invests in securities of companies with strong name recognition and sustainable competitive advantages

Large Cap Growth Fund

MFS Investment Management

Invests in companies believed to have above average earnings growth potential compared to other growth companies

Large Core Value Fund

Eaton Vance Management

Invests primarily in dividend-paying value stocks and may also invest in REITs, non-income producing stocks and fixed-income securities such as convertible debt

Large Cap Value Fund

AllianceBernstein

Invests in securities that are believed to be undervalued relative to long-term earnings and cash-flow potential

Index 500 Fund

State Street Global Advisors

Invests in securities of the S&P 500® Index in an attempt to replicate the performance of the Index

Mid Cap

Mid Cap Growth Fund

Ivy Investment Management

Invests in equity securities believed to have strong earnings growth potential and that are diversified across economic sectors

Mid Cap Value Fund

Neuberger Berman Investment Advisers

Invests in companies believed to be undervalued with strong business fundamentals, consistent cash flow, and a sound track record through all market cycles

Mid Core Value Fund

American Century Investment Management

Invests in companies whose stock price may not reflect the company's value and hold each stock until its price more accurately reflects the fair value of the company

SMID (Small / Mid) Cap

SMID Cap Growth Fund

Goldman Sachs Asset Management

Invests in small- and medium-sized growth companies believed to have unique business models, sustainable growth and knowledgeable management teams

SMID Cap Value Fund

AllianceBernstein

Invests in small- and medium-sized companies that are believed to be undervalued and have long-term earnings potential

Small Cap

Small Cap Growth Fund[1]

Janus Capital Management

Invests in small capitalization companies with differentiated business models and sustainable competitive advantages; holds these companies to capture more growth potential over a longer period

Small Cap Value Fund[1]

Goldman Sachs Asset Management

Invests in well-positioned cash generating businesses at a price considered low enough to help provide a healthy margin of safety

Small Cap Index Fund[1]

State Street Global Advisors

Invests in securities of companies included in the Russell 2000® Index to attempt to replicate the performance of the Index

Balanced

Flexibly Managed Fund

T. Rowe Price Associates

Invests in common stocks of well-established U.S. companies with above-average potential for capital growth as well as convertible securities, preferred stocks, corporate and governmental debt securities

Balanced Fund

Penn Mutual Asset Management, LLC

Invests in a combination of underlying Penn Series Funds with an allocation strategy designed to provide a mix of the growth opportunities of stock investing with the income opportunities of fixed income securities

Specialty

Real Estate Securities Fund[2]

Cohen & Steers Capital Management

Invests in common stocks and other equity securities issued by real estate companies of any market capitalization, including real estate investment trusts (REITs)

International

International Equity Fund[3]

Vontobel Asset Management

Invests primarily in higher quality growth companies with consistent operating histories, financial performance and long-term prospects operating in Europe and the Pacific Basin

Emerging Markets Equity Fund[3]

Morgan Stanley Investment Management

Invests in growth-oriented securities in emerging countries, which can include every nation in the world except the U.S., Canada, Japan, Australia, New Zealand and most nations in Western Europe with an emphasis on countries whose economies are developing strongly and becoming more sophisticated

Developed International Index Fund[3]

State Street Global Advisors

Invests in securities listed in the Morgan Stanley Capital International® Europe, Australia, Far East (MSCI EAFE) Index in an attempt to replicate the Index (see back cover for more information)

Fixed Income

Money Market Fund[4]

Penn Mutual Asset Management, LLC

Invests no less than 99.5% of its total assets in government securities, cash or repurchase agreements that are collateralized fully by government securities or cash

Limited Maturity Bond Fund

Penn Mutual Asset Management, LLC

Invests primarily in short- to intermediate-term investment grade debt securities of the U.S. government and corporate issuers

Quality Bond Fund

Penn Mutual Asset Management, LLC

Invests primarily in marketable investment grade debt securities that are believed to be undervalued based on their quality, maturity and sector in the marketplace

High Yield Bond Fund[5]

Penn Mutual Asset Management, LLC

Invests primarily in high-yield corporate bonds that are rated below investment grade, as well as income producing convertible securities and preferred stocks

[1] Investing in small companies involves greater risk than is customarily associated with more established companies, due to increased volatility, less liquidity and less publicly available information.

[2] Real Estate Investment Securities involve risks such as refinancing, economic impact on industry, changes in property values, dependency on management skills and risks similar to small company investing.

[3] International investing involves certain risks including political and economic uncertainties, in addition to currency price fluctuations not inherent in domestic investing.

[4] An investment in the Fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The Fund's sponsor has no legal obligation to provide financial support to the Fund, and you should not expect that the sponsor will provide financial support to the Fund at any time.

[5] High-yield bonds are subject to greater fluctuations in value and risk of loss of income and principal.

LifeStyle Asset Allocation Funds

By choosing a LifeStyle Asset Allocation Fund, you are selecting a complete and broadly diversified portfolio consisting of a diverse array of quality, underlying investment options that have been designed to address a specific level of risk tolerance:

- Conservative Allocation Fund
- Moderately Conservative Allocation Fund
- Moderate Allocation Fund
- Moderately Aggressive Allocation Fund
- Aggressive Allocation Fund

Each Fund is thoroughly analyzed and constructed based on the potential for risk-adjusted returns and automatically readjusted to help keep it on track.

Quality Investments, Expert Management

The five LifeStyle Asset Allocation Funds incorporate funds from the available individual investment choices, or "sub-accounts," which are managed by some of today's most experienced and highly regarded investment firms.

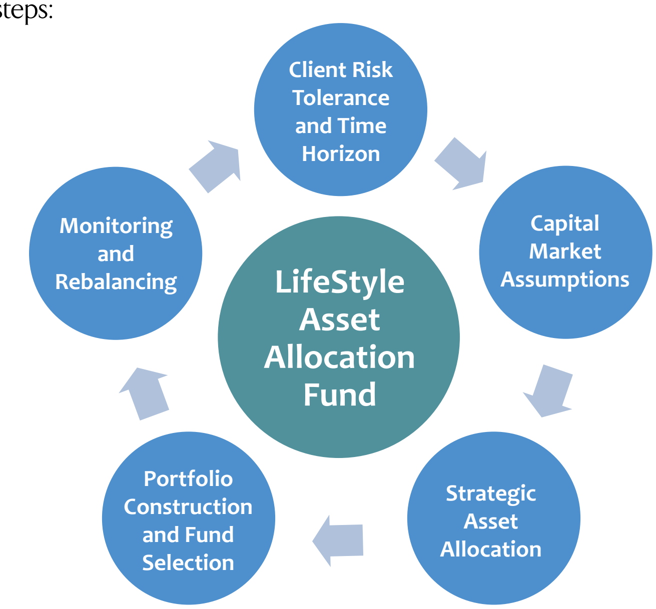
Penn Mutual works with its wholly owned investment advisory subsidiary, Penn Mutual Asset Management, LLC (PMAM), which oversees and manages the selection and monitoring of the individual fund managers. In addition, PMAM's talented and experienced portfolio management team leverages its in-house investment expertise in the design and monitoring of each LifeStyle Asset Allocation Fund.

Together, each Fund is continually reviewed to help ensure that they remain consistent with its investment objectives by making periodic adjustments, including:

- Quarterly review of the underlying asset classes that make up each Fund
- Adjustments, when necessary, of specific sub-accounts within an asset class
- Automatic rebalancing of each LifeStyle Fund on a quarterly basis

A Measured Investment Approach

The portfolio management team at Penn Mutual Asset Management, LLC employs a methodology that incorporates both capital market assumptions and strategic asset allocation decisions in the design and allocation of each LifeStyle Asset Allocation Fund. Its process consists of five distinct and principal steps:



Flexibility to Change

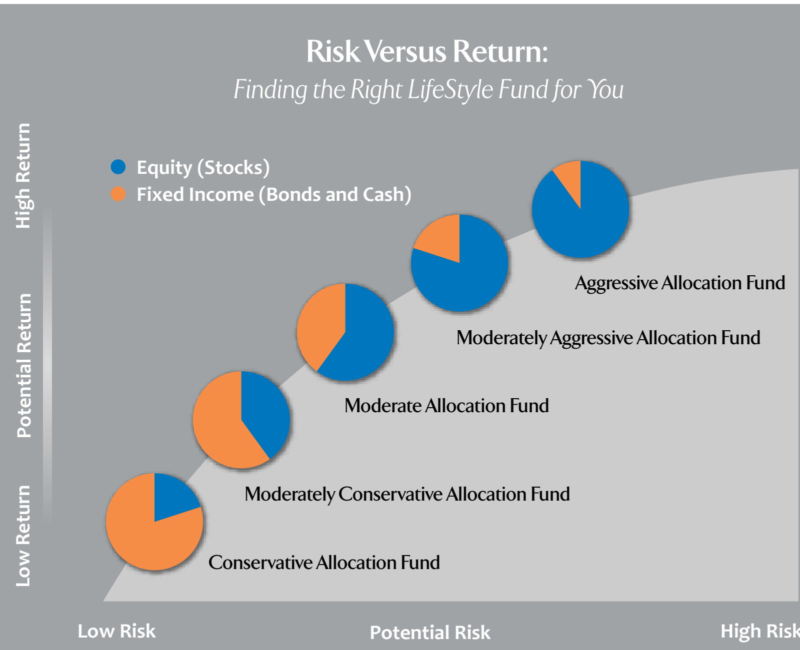
Whatever LifeStyle Fund works for you today can easily be switched to a different Fund as your needs, goals, lifestyle or risk tolerance changes.

The Choice is Yours

Choosing the right LifeStyle Asset Allocation Fund will depend primarily on your own specific degree of risk tolerance and time horizon.

Your financial professional, who is familiar with your evolving life-situation, can provide invaluable assistance to you in both your initial selection and when planning your move from one LifeStyle Fund to another.

As you can see, as the potential for return increases, so does the potential for risk. That's why there are five diversified LifeStyle Funds for five different levels of risk-tolerance. Result: Whatever your "risk profile," there is a LifeStyle Fund that can fit your needs and your comfort zone.

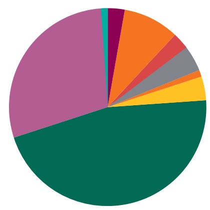


A Closer Look Inside the LifeStyle Asset Allocation Funds

Asset Classes

Conservative Allocation Fund

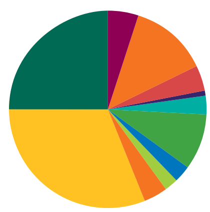
The Fund invests in a combination of other **Penn Series Funds** in accordance with its target asset allocation of **20% equity** and **80% fixed-income** securities.



2%	Large Cap Growth Stocks	1%	Domestic REITs
9%	Large Cap Value Stocks	3%	High Yield Bonds
4%	Mid Cap Value Stock	42%	Intermediate Bonds
3%	International Stocks	35%	Short Term Bonds
1%	Small Cap Value Stocks		

Moderately Conservative Allocation Fund

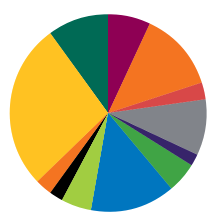
The Fund invests in a combination of other **Penn Series Funds** in accordance with its target asset allocation of **40% equity** and **60% fixed-income** securities.



5%	Large Cap Growth Stocks	2%	Emerging Markets
14%	Large Cap Value Stocks	2%	Domestic REITs
5%	Mid Cap Value Stocks	3%	High Yield Bonds
1%	Small Cap Growth Stocks	32%	Intermediate Bonds
3%	Small Cap Value Stocks	25%	Short Term Bonds
8%	International Stocks		

Moderate Allocation Fund

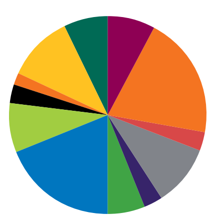
The Fund invests in a combination of other **Penn Series Funds** in accordance with its target asset allocation of **60% equity** and **40% fixed-income** securities.



6%	Large Cap Growth Stocks	12%	International Stocks
14%	Large Cap Value Stocks	5%	Emerging Markets
2%	Mid Cap Growth Stocks	2%	Domestic REITs
10%	Mid Cap Value Stocks	3%	High Yield Bonds
3%	Small Cap Growth Stocks	22%	Intermediate Bonds
6%	Small Cap Value Stocks	15%	Short Term Bonds

Moderately Aggressive Allocation Fund

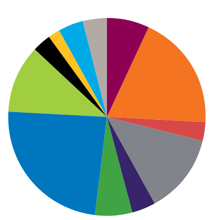
The Fund invests in a combination of other **Penn Series Funds** in accordance with its target asset allocation of **80% equity** and **20% fixed-income** securities.



7%	Large Cap Growth Stocks	17%	International Stocks
20%	Large Cap Value Stocks	8%	Emerging Markets
3%	Mid Cap Growth Stocks	3%	Domestic REITs
11%	Mid Cap Value Stocks	2%	High Yield Bonds
4%	Small Cap Growth Stocks	7%	Intermediate Bonds
7%	Small Cap Value Stocks	11%	Short Term Bonds

Aggressive Allocation Fund

The Fund invests in a combination of other **Penn Series Funds** in accordance with its target asset allocation of **90% equity** and **10% fixed-income** securities.



6%	Large Cap Growth Stocks	22%	International Stocks
19%	Large Cap Value Stocks	11%	Emerging Markets
3%	Mid Cap Growth Stocks	3%	Domestic REITs
14%	Mid Cap Value Stocks	2%	High Yield Bonds
5%	Small Cap Growth Stocks	1%	Intermediate Bonds
7%	Small Cap Value Stocks	7%	Short Term Bonds

LifeStyle Asset Allocation Fund investment percentage amounts are current as of December, 2018 and are subject to change.

The Penn Mutual Family of Funds

Penn Mutual offers a wide array of investment options to help meet your specific need and goals that range across asset classes and categories.

Large Cap

Large Growth Stock Fund
T. Rowe Price Associates

Large Core Growth Fund
Morgan Stanley Investment Management

Large Cap Growth Fund
MFS Investment Management

Index 500 Fund
State Street Global Advisors

Large Core Value Fund
Eaton Vance Management

Large Cap Value Fund
AllianceBernstein

Mid Cap

Mid Cap Growth Fund
Ivy Investment Management

Mid Cap Value Fund
Neuberger Berman Investment Advisers

Mid Core Value Fund
American Century Investment Management

SMID Cap

SMID Cap Growth Fund
Goldman Sachs Asset Management

SMID Cap Value Fund
AllianceBernstein

Small Cap

Small Cap Growth Fund
Janus Capital Management

Small Cap Index Fund
State Street Global Advisors

Small Cap Value Fund
Goldman Sachs Asset Management

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International Equity Fund
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Penn Mutual Asset Management, LLC

LifeStyle Asset Allocation Funds

Aggressive Allocation Fund
Penn Mutual Asset Management, LLC

Moderately Aggressive Allocation Fund
Penn Mutual Asset Management, LLC

Moderate Allocation Fund
Penn Mutual Asset Management, LLC

Moderately Conservative Allocation Fund
Penn Mutual Asset Management, LLC

Conservative Allocation Fund
Penn Mutual Asset Management, LLC

Market Capitalization:

Large Cap – Companies with market capitalization value of more than $10 billion.

Mid Cap – Companies with market capitalization between $2 and $10 billion.

Small Cap – Companies with market capitalization below $2 billion.

Investment Style:

A **value** style seeks securities that are undervalued in price and have the potential to appreciate.

A **growth** style seeks securities with the potential to grow faster than the rest of the market.

A **blend** style seeks to invest in both value securities, as well as growth securities.

Why Penn Mutual?

At Penn Mutual, we are singularly committed to helping families unlock the possibilities of life through our life insurance and annuity solutions.

We have never failed to meet an obligation to a policyholder. With our financial strength and stability standing behind our guarantees, we are committed to the brighter futures and best interests of all of our policyholders.

Penn Mutual

Our Noble Purpose

Since 1847, Penn Mutual has been driven by our noble purpose – to create a world of possibilities, one individual, one family and one small business at a time. As an original pioneer of mutual life insurance in America, we believe that purchasing life insurance is the most protective, responsible and rewarding action a person can take to build a solid foundation today and create a brighter future for generations to come.

Investors should consider the investment objectives, risks, charges and expenses of a variable insurance product carefully before investing. Please carefully read the prospectuses for the relevant variable insurance product as well as its underlying investment options, which contain this and other information about the product. You can obtain a prospectus from your financial professional.

Penn Mutual's investment options are not available for direct investment, are available only through the Penn Mutual line of variable insurance products, and are subject to market risk and may lose value. For more details about Penn Mutual's variable insurance products, please ask for a product brochure and/or prospectus.

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