


WEALTH MANAGEMENT Morgan Stanley

Introduction to Alternative Investments



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Consider a Different Way to Diversify Your Portfolio

Alternative investments have been an established part of the investing landscape for decades.

They have the potential to provide attractive risk-adjusted performance, lower volatility and additional diversification relative to traditional asset classes.¹

Alternative investments include:

- Hedge Funds
- Fund of Hedge Funds
- Managed Futures
- Private Equity
- Real Estate
- Exchange Funds



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Alternative Investments Differ from Traditional Investments

- Alternative investments describe a spectrum of strategies that cannot be accessed through traditional fixed income and equity markets
- These strategies have the potential to help lower volatility and increase diversification in clients' portfolios

Alternative Investments	Traditional Investments
Absolute performance objective ¹	Relative performance objective ²
May use leverage	Limited or no leverage
Performance dependent primarily on alternative investment manager skill	Performance generally dependent primarily on market returns
Historically low to moderate correlation with market indices	Historically high correlation with market indices
Typically have reduced liquidity ranging from monthly to 2+ year lock-ups	Typically offers daily liquidity
Generally higher fees which may include performance fees ³	No performance fees but may include fixed management fees for professional management

1. There is no guarantee that these objectives will be met.
2. Generally includes long-term management and performance fees for professional management.
Please see the Glossary for key definitions and Appendix for Risk Considerations.

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Alternative Investments Industry: AUM Projections

ALTERNATIVE ASSETS UNDER MANAGEMENT OVER TIME

From 2013 through 2018...

- Private Equity AUM expected to increase from \$3.8T to \$4.2T, or +10%
- Hedge Funds AUM expected to increase from \$3.7T to \$3.7T, or +20%

Source: Preqin, McKinsey, Hedge Fund Research, Morgan Stanley (2014)

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Large College Endowments Are Heavily Invested in Alternatives

PORTFOLIO ALLOCATIONS FOR FISCAL YEAR 2014

■ Alternative Strategies ■ Traditional Strategies

AVERAGE 5- AND 10-YEAR NET RETURNS FOR FISCAL YEAR 2014

	Total Institutions	Over \$1 Billion	\$500 Million - \$1 Billion	\$250 - \$500 Million	\$100 - \$250 Million	Under \$100 Million
Number of Institutions	832	91	77	262	108	399
5-Year Net Return	11.2%	12.0%	12.8%	11.8%	11.4%	11.4%
10-Year Net Return	7.2%	8.2%	7.2%	7.3%	6.5%	6.8%

Source: National Association of College and University Business Officers (NACUBO), survey of 823 institutions published January 2015. Returns shown are based on data ending 12/31/2014. This study does not indicate the percentage of portfolio returns attributable to the allocation to alternatives. Note: The larger the endowment, the better the ability to diversify. Past performance does not guarantee future results. Risk is inherent in any investment strategy. Includes Comprehensive Equity, Fixed Income and Cash, Alternatives Strategies, Real Estate, Hedge Funds, Private Equity, Venture Capital, Natural Resources and Commodity.

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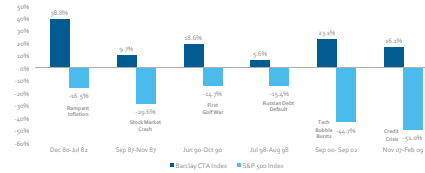
Annualized Return of Managed Futures

Jan-93 to Dec-2014	US Stocks	US Bonds	International Stocks	Managed Futures
Average Annual Return	11.81%	8.16%	9.57%	10.28%
Annualized Standard Deviation	15.17%	5.52%	17.47%	14.43%
Worst Draw Down	-50.95%	-8.99%	-56.40%	-15.66%
Best / Worst 12 Month Return	61.18% / -43.32%	35.22% / -5.13%	103.70% / -49.94%	63.69% / -7.88%
% Positive 12 Month Periods	80.44%	92.91%	71.64%	81.17%

Source: In the performance table above, average annual return is based on annualized compounded monthly returns. The standard deviation statistic measures the dispersion of monthly returns about the mean and is used to represent the volatility of rates. The worst draw down is the largest percentage loss an investor would expect to incur over the life of the portfolio period. Quarterly performance is a more realistic performance measure than monthly returns. The best and worst 12-month returns are based on the observations of US Stocks (S&P 500 Index), US Bonds (Barclays Aggregate Bond Index), International Stocks (MSCI EAFE Index), and Managed Futures (Barclays CTA Index - Morgan Stanley Global Fund LP). Monthly returns for the Barclays CTA Index reflect the composite performance of the reported and controlled funds, and therefore, may be higher or lower than the return applicable to any one particular managed future fund. Returns are annualized and returns cannot directly move in time. Composite index results are based on historical performance and do not represent the performance of a specific investment. Please see Appendix for index descriptions. Past performance is no guarantee of future results.

Managed Futures During Market Turmoil

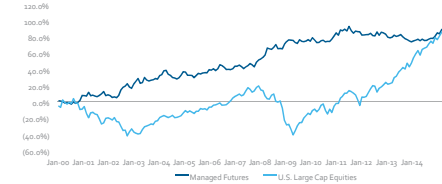
Since 1980, stocks have declined more than 10% on six occasions, with an average decline of 28.6% on these occasions. Managed Futures has had an average rate of return of 18.7% during those six periods.



Data through 10/15/2014. December 2014. Monthly returns for the S&P 500 Index provided by First Financial Information, LLC (FirstFI). The data is not subject to the Barclays CTA Index provided by Barclays Hedge, L.P. (Barclays CTA). Managed Futures performance data for the period between 1980 and 2014 is based on the observations of US Stocks (S&P 500 Index), US Bonds (Barclays Aggregate Bond Index), International Stocks (MSCI EAFE Index), and Managed Futures (Barclays CTA Index - Morgan Stanley Global Fund LP). Monthly returns for the Barclays CTA Index reflect the composite performance of the reported and controlled funds, and therefore, may be higher or lower than the return applicable to any one particular managed future fund. Returns are annualized and returns cannot directly move in time. Composite index results are based on historical performance and do not represent the performance of a specific investment. Please see Appendix for index descriptions. PAST PERFORMANCE IS NO GUARANTEE OF FUTURE RESULTS.

Index Growth Comparison

MANAGED FUTURES COMPARED TO US LARGE CAP EQUITIES
January 1, 1980 - December 31, 2014



Managed Futures: Barclays CTA Index, Source: Barclays Hedge, L.P. (Barclays CTA). U.S. Large Cap Equity: S&P 500 Index with the reinvestment of dividends, Source: Bloomberg. Indexes are annualized and returns cannot directly move in time. The composite index results above are the historical performance and do not represent the performance of a specific investment. Past performance is no guarantee of future results. Refer to the Appendix for index descriptions and details.

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Real Estate



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Real Estate Attributes

Potential benefits to Real Estate investing when compared to traditional investments:

Traditional Investments	Real Estate
• No leverage	• Leverage (typically 0 to 75%)
• Historically, high correlation with market indices	• Historically, low correlation with market indices
• More volatility than real estate, even during periods of out performance	• Less volatility compared to equities and fixed income
• Financial asset	• Physical asset
• Highly liquid	• Relatively illiquid
• Historically vulnerable to inflation	• Potential inflation hedge

1. There is no guarantee that these objectives will be met. Individual funds will have specific goals related to their investment program that will vary from fund to fund. Please review and be familiar with the fund's offering materials, including the private placement memorandum or prospectus. Please see the Glossary for key definitions and Appendix for Risk Considerations.

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The 4 Quadrants of Commercial Real Estate Investing

Public and Private – Debt and Equity

	Debt	Equity
Public	<ul style="list-style-type: none"> Commercial Mortgage Backed Securities (CMBS) Collateralized Debt Obligations (CDOs) 	<ul style="list-style-type: none"> Real Estate Investment Trusts (REITs) Real Estate Operating Companies (REOCs)
Private	<ul style="list-style-type: none"> Whole Mortgage Loans (First Mortgages) Mezzanine Financing Bridge Loans Construction Loans 	<ul style="list-style-type: none"> Limited Partnerships Private REITs Open- or Closed-End Funds Separate Accounts

Note: These investments are only suitable for long-term investors willing to forgo liquidity and principal at risk for an indefinite time. Past performance is no guarantee of future results.

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Real Estate Investment Strategies¹

- Core Investing**
 - Lower Risk / Lower Return Potential
 - Well managed, high quality properties
 - High grade credit quality tenants, substantially leased
 - Diversified across property types
 - Return derived primarily from income
- Value Added Investing**
 - Moderate Risk / Return Potential
 - Undervalued properties due to sub-optimal management
 - Value potential through renovation, re-leasing, repositioning or redevelopment
 - Improved income as a result of better management
- Opportunistic Investing**
 - High Risk / High Return Potential
 - Limited current income
 - Disposed investments
 - Driven by capital appreciation
 - Specialized development

A Range of Opportunities to Satisfy Objectives

Footnote 1: Individual funds will have specific objectives that may vary from fund to fund. Please review and be familiar with the fund offering materials, including the investment management or prospectus. Please see the following for key definitions and Appendix for Risk Considerations.

Footnote 2: There can be no assurance that any targeted or expected return to be realized or that actual returns or performance results will not be materially lower than expected returns. They are based on analysis conducted as of the date of the report and are being provided for informational purposes only. The expected returns do not reflect the performance of any Morgan Stanley investment.

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Diversifying With Commercial Real Estate

- US commercial real estate ("CRE") is a huge asset class – \$12 trillion in 2014¹
- Over the long term, real estate may provide diversification benefits due to historically lower correlations with other asset classes²
- Contractual leases may provide greater stability due to cash flow / income streams³

CORRELATION OF TOTAL RETURNS Quarterly, Last 10 Years (in⁴)

	Stocks	Bonds	Real Estate	Commodities	ES/TS	Core RE	Oppty RE
Stocks	1.00	(0.48)	0.55	0.49	0.78	0.42	0.45
Bonds		1.00	(0.23)	(0.43)	(0.62)	(0.48)	(0.20)
Real Estate			1.00	0.58	0.50	0.53	0.40
Commodities				1.00	0.57	0.46	0.43
ES/TS					1.00	0.54	0.39
Core RE						1.00	0.54
Oppty RE							1.00

Source: Alternative Investments calculations, data from Standard & Poor's, Barclays, Barclays Aggregate Index, Hedge Funds and the Morgan Compustats Index, Commodity Channel - US Commodity Index Total Return, REITs (FTSE NAREIT US Real Estate Index Series, Core RE (S&P 500 Index), and Oppty RE (S&P 500 Index) (quarterly returns).

1. Core CRE \$12.4 Trn, 10/1/14

2. There are no reported Alternative Investments of the date of the presentation and are subject to change at any time due to changes in market or economic conditions.

3. Past performance is not indicative of future results. Real returns may vary. Please see Appendix for Risk Considerations and other definitions.

4. Values are unannualized investment returns (quarterly returns). Comparative results are based on their own processes and do not represent the performance of a specific investment.

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Exchange Funds

Appendix (cont'd)

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Liquidity Risk: Lack of hedge funds may limit redemptions date. Underlying advisors may also have lock-up periods and frequent redemptions dates, thereby limiting the investor's ability to liquidate assets in a timely and efficient manner.

MANAGED PORTFOLIES

Leverage: The use of leverage increases portfolio volatility and risk. A small change in the market price of a contract can produce large changes for the fund. This could limit your ability to redeem units in kind. In many cases, you may only redeem units after an initial three-month holding period and then only on a monthly basis.

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Appendix (cont'd)

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Liquidity Risk: Your ability to redeem units is limited. In many cases, you may only redeem units after an initial three-month holding period and then only on a monthly basis. Competition for investments may result in the availability of alternative investments and the Manager's ability to identify and consummate such investments.

PRIVATE EQUITY

Valuation: As Private Equity Funds generally will invest in securities that are not readily marketable, the securities generally will be carried at the value provided by the Fund or at cost. These valuations are subject to review, and such valuations may fluctuate significantly and may reflect a value lower than the value at which investments are ultimately realized.

REAL ESTATE

Risk: Real estate development that uses historically less experienced operators, fluctuates and cycles in value and has limited liquidity may result in reductions in the value and the income associated with real property interests, including possible loss of principal investment.

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Appendix (cont'd)

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Alternative Exchange (AEX) Exchange that comprises the AEX Effectives, the AEX Options (formerly the European Options Exchange or EOE) and the AEX Agraria Commodity Composites.

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Important Notice Regarding Complex Products

The type of mutual funds and ETFs discussed in this presentation utilizes nontraditional or complex investment strategies and/or derivatives. Examples of these types of funds include those that utilize one or more of the below noted investment strategies or categories or which seek exposure to the following markets:

- Commodities (e.g., agricultural, energy and metals), Currency, Precious Metals
- Managed Futures
- Leveraged, Inverse or Inverse Leveraged
- Bear Market, Hedging, Long Short Equity, Market Neutral
- Real Estate
- Volatility (seeking exposure to the CBOE VIX Index)

You should keep in mind that while mutual funds and ETFs may, at times, utilize nontraditional investment options and strategies, they should not be equated with unregistered privately offered alternative investments. Because of regulatory limitations, mutual funds and ETFs that seek alternative-like investment exposure must utilize a more limited investment universe. As a result, investment returns and portfolio characteristics of alternative mutual funds and ETFs may vary from traditional hedge funds pursuing similar investment objectives. Moreover, traditional hedge funds have limited liquidity with long "lock up" periods allowing them to pursue investment strategies without having to factor in the need to meet client redemptions and ETFs trade on an exchange. On the other hand, mutual funds typically must meet daily client redemptions. This differing liquidity profile can have a material impact on the investment returns generated by a mutual or ETF pursuing an alternative investing strategy compared with a traditional hedge fund pursuing the same strategy.

Nontraditional investment options and strategies are often employed by a portfolio manager to further a fund's investment objective and to help offset market risks. However, these features may be complex, making it more difficult to understand the fund's essential characteristics and risks, and how it will perform in different market environments and over various periods of time. They may also expose the fund to increased volatility and unanticipated risks particularly when used in complex combinations and/or accompanied by the use of borrowing or "leverage."

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Past performance is no guarantee of future results. Estimates of future performance are based on assumptions that may not be realized. This material is not a solicitation of any offer to buy or sell any security or other financial instrument or a recommendation to buy, sell, or hold any security. Please refer to the prospectus for more information and for a complete list of risks.
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Appendix

HFRI Indices

While the HFRI Indices are frequently used, they have limitations (some of which are typical of other widely used indices). These limitations include survivorship bias (the returns of the indices may not be representative of all the hedge funds in the universe because of the tendency of lower performing funds to leave the index), heterogeneity (not all hedge funds are alike or comparable to one another), and the index may not accurately reflect the performance of a described style(s) and limited data (many hedge funds do not report to indices, and the index may omit funds, the inclusion of which might significantly affect the performance shown). The HFRI Indices are based on information self-reported by hedge fund managers that decide on their own, at any time, whether or not they want to provide, or continue to provide, information to HFRI Asset Management, L.L.C. Results for funds that go out of business are included in the index until the date that they cease operations. Therefore, these indices may not be complete or accurate representations of the hedge fund universe, and may be biased in several ways.

Hedge Fund Index Performance Biases

It should be noted that the majority of hedge fund indices are comprised of hedge fund manager returns. This is in contrast to traditional indices, which are comprised of individual securities in the various market segments they represent and offer complete transparency as to membership and construction methodology. As such, some believe that hedge fund index returns have certain biases that are not present in traditional indices. Some of these biases inflate index performance, while others may skew performance negatively. However, many studies indicate that overall hedge fund index performance has been biased to the upside. Some studies suggest performance has been inflated by up to 300 basis points or more annually depending on the types of biases included and the time period studied. Although there are numerous potential biases that could affect hedge fund returns, we identify some of the most common ones throughout this paper.

Self-selection bias results when certain manager returns are not included in the index returns and may result in performance being skewed up or down. Because hedge funds are private placements, hedge fund managers are able to decide which fund returns they want to report and are able to opt out of reporting to the various databases. Certain hedge fund managers may choose only to report returns for funds with strong returns and opt out of reporting returns for weak performers. Other hedge funds that close may decide to stop reporting in order to retain secrecy, which may cause a downward bias in returns. **Survivorship bias results** when certain constituents are removed from an index. This often results from the closure of funds due to poor performance, "slow ups," or other such events. As such, this bias typically results in performance being skewed higher. As noted, hedge fund index performance biases can result in positive or negative skew. However, it would appear that the skew is more often positive. While it is difficult to quantify the effects precisely, investors should be aware that idiosyncratic factors may be giving hedge fund index returns an artificial "lift" or upwards bias.

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Asset Allocation Models & Insurance Products Disclosures

GLOBAL INVESTMENT COMMITTEES (GIC) ASSET ALLOCATION MODELS
The Asset Allocation Models are created by Morgan Stanley Wealth Management's GIC.
CLIENTS TO CONSIDER THEIR OWN INVESTMENT NEEDS
The GIC Asset Allocation Models are formulated based on general client characteristics such as investable assets and risk tolerance. This report is not intended to be a client-specific suitability analysis or recommendation, or offer to participate in any investment. Therefore, do not use the report as the sole basis for investment decisions. Clients should consider all relevant information, including their existing portfolio, investment objectives, risk tolerance, liquidity needs and investment time horizon. Such a suitability determination may lead to asset allocation(s) results that are materially different from the asset allocation shown in this report. Clients should talk to their Financial Advisor about what would be a suitable asset allocation for them.

HYPOTHETICAL MODEL PERFORMANCE (GROSS)
Hypothetical model performance results do not reflect the investment or performance of an actual portfolio following a GIC Strategy, but simply reflect actual historical performance of selected indices on a real-time basis over the specified period of time representing the GIC Strategy and financial allocations or of the date of this report. The past performance shown here is simulated performance based on benchmark indices, not investment results from an actual portfolio or actual trading. There can be large differences between hypothetical and actual performance results achieved by a particular asset allocation or trading strategy. Hypothetical performance results do not represent actual trading and are generally designed with the benefit of hindsight. Actual performance results of accounts vary due to, for example, market factors (such as liquidity) and client-specific factors (such as investment vehicle selection, timing of contributions and withdrawals, restrictions and rebalancing instructions). Clients would not necessarily have obtained the performance results shown here if they had invested in accordance with any GIC Asset Allocation Model for the period indicated.
Despite the limitations of hypothetical performance, these hypothetical performance results allow clients and Financial Advisors to obtain a sense of the risk/return trade-off of different asset allocation products. The hypothetical performance results in this report are calculated using the returns of benchmark indices for the asset classes, and not the returns of actual securities, fund or other investment products.

Performance of indices may be more or less volatile than any investment product. The risk of loss in value of a specific investment is not the same as the risk of loss in a broad market index. Therefore, the historical returns of an index will not be the same as the historical returns of a particular investment or client selection.
Models may contain allocations to Hedge Funds, Private Equity and Private Real Estate. The benchmark indices for these asset classes are not based on a daily basis. When calculating model performance on a daily basis for which benchmark index data is available, we have assumed a conservative growth rate for these index levels until before and after that date.
Fees reduce the performance of actual accounts. None of the fees or other expenses (e.g. commissions, mark-ups, mark-downs, fees) associated with actual trading or accounts are reflected in the GIC Asset Allocation Models. The GIC Asset Allocation Models and any model performance included in this presentation are intended as illustrative materials. When a client to use these models in connection with modeling, any investment decisions made would be subject to transaction and other costs which, when compounded over a period of years, would decrease returns. Information regarding Morgan Stanley's model advisory fees is available in the Form ADV Part 2, which are available at www.morganstanley.com/disclosures. The following hypothetical example for the compound effect fees had on investment returns: If a portfolio earned an 8% return 30% of the year and the account pays 1% fees per annum, the gross contribution to the net return would be 5%. If the fee was 1.5% and the fee was 2% the net return would be 4.5% and 4% respectively. Fees under expenses would apply to clients who invest in investments in an account based on these asset allocations, and would reduce client returns. The amount of fees and/or expenses can be material.

INSURANCE PRODUCTS AND ETF DISCLOSURES
Morgan Stanley Smith Barney L.L.C. offers insurance products in conjunction with its mutual insurance agency affiliate.
An investment in an exchange-traded fund involves risks similar to those of investing in a broadly based portfolio of equity securities traded on an exchange in the relevant securities market, such as market fluctuations and volatility. Such factors as economic and political developments, changes in interest rates, general market trends and local factors.
Variable annuities, mutual funds and ETFs are sold by prospectus only. The prospectus contains the investment objectives, risks, fees, charges and expenses, and other information regarding the variable annuity contract and the underlying investments, or the ETF, which should be considered carefully before investing. Prospective for both the variable annuity contract and the underlying investments, or the ETF, are available from your Financial Advisor. Please read the prospectus carefully before you invest.
Variable annuities are long-term investments designed for retirement purposes and may be subject to market fluctuations, investment risk, and possible loss of principal. All guarantees, including optional benefits, are based on the financial strength and claims-paying ability of the issuing insurance company and do not apply to the underlying investment options.
Optional riders may be able to be purchased in connection and are available at an additional cost. Some optional riders must be elected at time of purchase. Optional riders may be subject to certain limitations, restrictions, holding periods, costs, and expenses as specified by the insurance company's annuity contract.
If you are investing in a variable annuity through a discretionary retirement plan, such as an IRA, you will get additional tax advantages from the variable annuity. Under these circumstances, you should only consider buying a variable annuity if you are of the other features, such as lifetime income payments and death benefits protection.
Taxable distributions (and certain deemed distributions) are subject to ordinary income tax and, if made prior to age 59½, may be subject to a soft federal income tax penalty. Early withdrawals will reduce the death benefit and cash surrender value.
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Asset Class Risk Considerations

For index definitions in the <http://www.morganstanley.com/public/etf/index> please visit the following:

Equity securities may include in equities across all companies, industries, market conditions and general economic environments.

Investing in foreign markets entails risks not typically associated with domestic markets, such as currency fluctuations and controls, restrictions on foreign investments, less governmental supervision and regulation, and the potential for political instability. These risks may be magnified in countries with **emerging markets** and **frontier markets**, since these countries may have relatively unstable governments and less established markets and economies.

Investing in small- or medium-sized companies entails special risks, such as limited product lines, smaller and financial resources, and greater volatility than securities of larger, more established companies.

The value of **fixed income securities** will fluctuate and, upon a sale, may be worth more or less than their original cost or maturity value. Bonds are subject to interest rate risk, call risk, reinvestment risk, liquidity risk, and credit risk of the issuer.

High yield bonds (bonds rated below investment grade) may have speculative characteristics and present significant risks beyond those of other securities, including greater credit risk, price volatility, and limited liquidity in the secondary market. High yield bonds should comprise only a limited portion of a balanced portfolio.

Interest on municipal bonds is generally exempt from federal income tax. However, some bonds may be subject to the alternative minimum tax ("AMT"). Typically, state tax exemption applies if interest is earned within one state of residence and, if applicable, local tax exemption applies if securities are issued within one's state of residence.

Treasury Inflation Protection Securities (TIPS) receive payments and underlying principal are automatically increased to compensate for inflation by tracking the consumer price index (CPI). While the real rate of return is guaranteed, TIPS tend to offer a low return. Because the effect of TIPS is linked to inflation, TIPS may significantly underperform versus conventional U.S. Treasuries in times of deflation.

Ultra-short-term fixed income asset class is comprised of fixed income securities with high quality, very short maturities. They are therefore subject to the risks associated with debt securities such as credit and interest rate risk.

Alternative investments may be either traditional alternative investment vehicles, such as hedge funds, fund of hedge funds, private equity, private real estate and managed futures or non-traditional products such as mutual funds and exchange-traded funds that also seek alternative-like exposure but have significant differences from traditional alternative investments. The risks of traditional alternative investments may include, but are not limited to, illiquidity, speculation and risk suitable for all investors, loss of a substantial portion of the investment due to leverage, short selling, or other speculative practices, volatility of returns, restrictions on transferring interests, a lack of general lack of distribution and resulting higher risk due to concentration of trading activity, when a slight adverse is realized, absence of information regarding valuation and pricing, complex tax structures and delays in tax reporting, less regulation and higher fees than open-end mutual funds, and risks associated with the structure, performance and practices of the manager. Non-traditional alternative trading products may employ various investment strategies that include, but are not limited to, and more speculative programs such as short selling, leverage, derivatives and options, which can increase volatility and the risk of investment loss. **Master Limited Partnerships (MLPs)** Individual MLPs are publicly traded partnerships that have unique risks related to their structure. These include, but are not limited to, their reliance on the capital markets for fund growth, adverse change in the current tax treatment of distributions (typically mostly tax deferred), and commodity volume risk. The potential tax benefits from investing in MLPs depend on their being treated as partnerships for federal income tax purposes and if the MLP is deemed to be a corporation, then its income would be subject to federal taxation at the entity level, reducing the amount of cash available for distribution to the fund which could result in a reduction of the fund's value. MLPs carry interest rate risk and may underperform in a rising interest rate environment. **Investing in commodities** entails significant risks. Commodity prices may be affected by a variety of factors, including but not limited to: (i) changes in supply and demand relationships; (ii) government programs and policies; (iii) natural and international political and economic events; and (iv) trading activities in derivatives and related contracts. (ii) positions, technological change and weather; and (iii) the price volatility of a commodity. In addition, the commodities markets are subject to temporary disruptions or other disruptions due to various factors, including lack of liquidity, participation of speculators and government intervention. **Physical precious metals** are non-regulated products. Precious metals are speculative investments, which may experience short-term and long-term price volatility. The value of precious metals investments may fluctuate and may appreciate or decline, depending on market conditions. Unlike bonds and stocks, precious metals do not make interest or dividend payments. Therefore, precious metals may not be suitable for investors who require current income. Precious metals are commodities that should be valued as such, which may cause price volatility. **REITs** invest only in real estate and are similar to stocks associated with direct investments in real estate property value fluctuations, lack of liquidity, limited distribution and sensitivity to economic factors such as interest rate changes and market increases.

Risks of private real estate include: illiquidity, long-term investment horizon with limited or no secondary market, lack of transparency, volatility of risk of loss, and leverage.

Principal is returned on a monthly basis over the life of a mortgage-backed security. Principal repayment can significantly affect the monthly income stream and the maturity of any type of MBS, including standard MBS, CDOs and CDOs.

Asset-backed securities generally decrease in value as a result of interest rate increases, but may benefit less than other fixed income securities from declining interest rates, primarily because of prepayments.

Asset Class Risk Considerations (cont'd)

Floating rate securities: The real interest rate on a floating rate security may be less than that of a fixed rate security of the same maturity because investors expect to receive additional income due to future increases in the floating security's underlying reference rate. The reference rate could be an index or an interest rate. However, there can be no assurance that the reference rate will increase. Some floating rate securities may be subject to call risk.

Yields are subject to change with economic conditions. Yield is only one factor that should be considered when making an investment decision.

Call features are subject to change.

Complex pricing structures can reduce or delay or preclude any of the following:

- Asset allocation and diversification do not assure a profit or protect against loss in declining financial markets.
- The index is outperformed: An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment.
- The indices selected by Morgan Stanley Wealth Management to measure performance are representative of broad asset classes. Morgan Stanley Wealth Management retains the right to change investments in the index at any time.
- Because of their narrow focus, sector investments tend to be more volatile than investments that diversify across many sectors and companies.
- Growth investing does not guarantee a profit or eliminate risk. The stocks of those companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth opportunities.
- Value investing does not guarantee a profit or eliminate risk. Not all companies whose stocks are considered to be value stocks are able to turn their business around or successfully execute corrective strategies which would result in stock prices that do not rise as initially expected.
- Rebalancing does not protect against a loss in declining financial markets. There may be a potential tax implication with a rebalancing strategy. Investors should consult with their tax advisor before implementing such a strategy.
- Duration, the most commonly used measure of bond risk, quantifies the effect of changes in interest rates on the price of a bond or bond portfolio. The longer the duration, the more sensitive the bond or portfolio would be to changes in interest rates.
- Besides the general risk of holding securities that may decline in value, **diversified funds** may have additional risks related to declining market prices relative to net asset values (NAV), active manager underperformance, and potential leverage. Some funds also invest in foreign securities, which may involve currency risk.

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