



Authored by:
Rohan Reddy
Director of Research

Date: November 9, 2023
Topic: Risk Management



GLOBAL X ETFs RESEARCH

The Case for a Defined-Outcome Strategy

Equity markets within the U.S. have staged a decent recovery to date in 2023. However, with inflation still tracking at relatively high levels, and interest rate policies shifting around the globe, concerns about navigating a lower return environment remain evident. Investors are adjusting their equity portfolios accordingly, seeking out more defensive positions as the calendar turns toward the final stanza of the year. By accessing the options market via the implementation of a defined-outcome strategy, the opportunity to obtain a specified level of downside protection for their portfolios could be available.

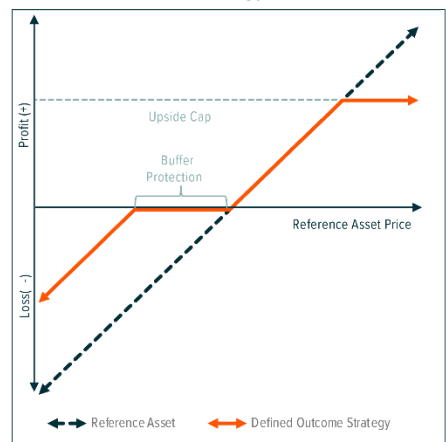
Key Takeaways

- In this challenging macroeconomic environment, defined-outcome strategies may provide reduced equity risk while maintaining a level of upside participation.
- In a rising rate environment, defined-outcome strategies could help minimize equity volatility while avoiding fixed income duration risk.
- Defined-outcome strategies could be beneficial in terms of seeking a specified level of downside protection by maintaining long exposure to the equity markets while offering option packages that come at a cost as close as possible to neutral.

What Are Defined-Outcome Strategies?

Certain defined-outcome strategies, utilizing a combination of put options and call options on a specified reference asset, could provide an explicit level of downside protection with equity upside participation, up to a cap. The key purpose of this type of option overlay is to provide a level of risk mitigation that is predictable and specified, should this type of strategy be held from the initiation of the option contracts to contract expiration.

Defined Outcome Strategy



Defined Outcome Strategy Key Features	
	Level of downside protection on reference asset downside movements, specified by a put option overlay.
	As a zero-cost premium strategy, this lowers options transactions costs for investors.
	The outcome period of returns specified lasts over the life of the strategy's options contracts. The options overlay is reset at expiration.
	Upside potential is capped as the reference asset appreciates beyond the strike price of a written call option.

A defined-outcome strategy consists of the following positions that encompass the overarching exposure:

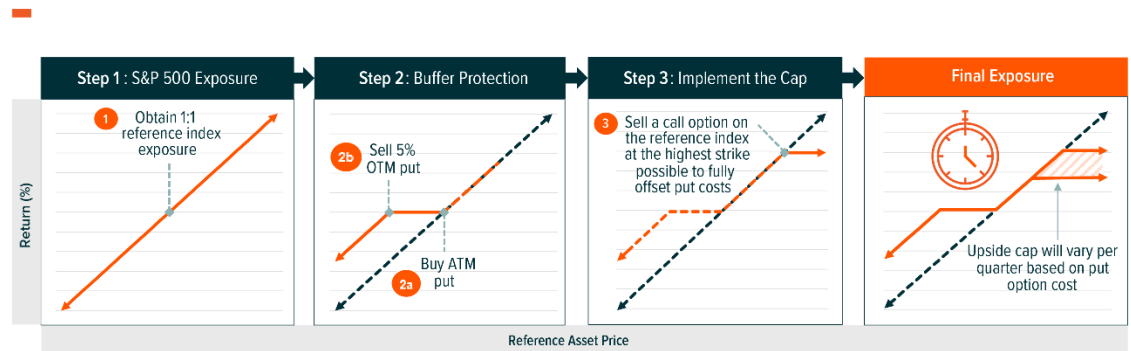


Step 1) Obtain 1:1 exposure to an underlying equity asset or index.

Step 2) The strategy will simultaneously buy a put option and sell a put option on this same underlying asset. This combination of buying a put and selling a put is known as a bear put spread where the strike price of the long put is higher than that of the short put position. The difference between the strike prices determines the degree to which the buffer protection is offered relative to the underlying asset.

Step 3) Lastly, the strategy will sell a call option at a strike price such that it offsets the costs of the bear put spread detailed in Step 2. This short call option position helps create the zero-cost put spread collar.

Defined-outcome strategies can be implemented using options with differing time expirations such as quarterly or annually. Since the premium cost of the bear put spreads will change over time, this will likely result in a different call strike price and therefore a different upside cap during each outcome period. Ultimately, the combination results in a final payoff structure that will likely allow the strategy to achieve full upside potential, up to a cap, with the ability to provide a specified level of protection on losses. Hence, these multiple legs help create the defined outcome characteristics of a strategy like this.



Expectations of a Defined-Outcome Strategy

Given the specified level of downside protection offered from a defined-outcome strategy, implementing it could result in a “defined-outcome” of returns from the underlying asset should this strategy be held from contract initiation until contract expiration.

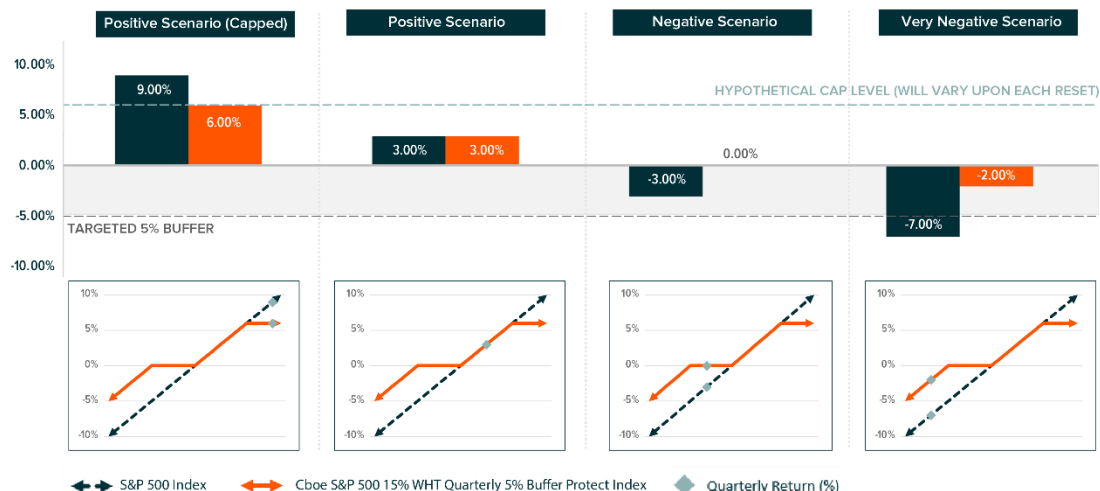
Quarterly Reset Defined Outcome Strategy

For example, the Cboe S&P 500 15% WHT Quarterly 5% Buffer Protect Index, a representation of a quarterly defined-outcome strategy, has a 5% buffer that resets each calendar quarter. The index does this by implementing a hypothetical portfolio containing a put spread featuring a long “at-the-money” put option position paired with a short 5% “out-of-the-money” put option. This means that, in down markets, losses may only occur over a quarterly period if the losses of the S&P 500 exceed 5%. In an uptrend, all of the price appreciation associated with the S&P 500 upside up to a specified cap is dependent on the strike price of the covered call for the outcome period.



DEFINED-OUTCOME STRATEGY HYPOTHETICAL SCENARIO ANALYSIS

Index will have a different level of upside potential every quarter upon the initiation of new options contracts. Hypothetical Scenarios are based on the S&P 500 Price Return Index and doesn't take into account dividends and transaction costs.

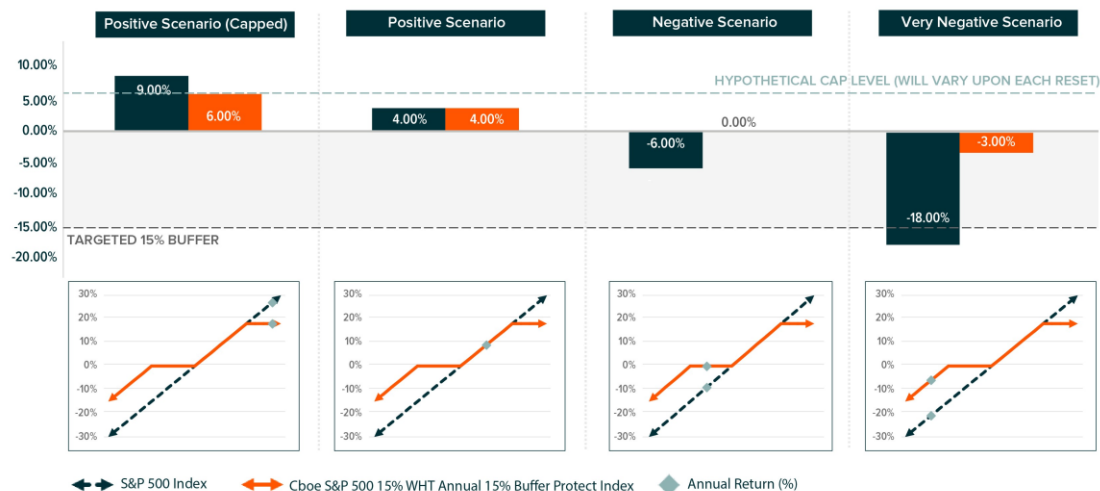


Annual Reset Defined Outcome Strategy

Another implementation approach to a defined outcome strategy is to utilize the same aforementioned options overlay, but with options that have a 1-year time length until expiration. By implementing a defined outcome strategy over a longer timeframe, with a wider strike price between the long put option and short put option positions, an annual defined outcome strategy can potentially offer a higher level of downside protection. Using the Cboe S&P 500 15% WHT Annual 15% Buffer Protect Index as a representation of an annual defined outcome strategy, the index is designed to provide a 15% buffer on the S&P 500 index that is reset each calendar year.

ANNUAL DEFINED-OUTCOME STRATEGY HYPOTHETICAL SCENARIO ANALYSIS

Upside potential will vary every year upon the initiation of new options contracts. Hypothetical Scenarios are based on the S&P 500 Price Return Index and don't take into account dividends, transaction costs.



One difference relative to a quarterly buffer strategy is that an annual reset potentially offers a higher level of downside protection because its options are rolled less frequently. However, the upside potential is lessened due to the longer wait for an upside cap reset. Therefore, having stronger convictions for bearish, equity market sentiment over the course of a 1-year period, but still looking to maintain a level of U.S. equity exposure, may lead to the determination that an annual defined-outcome strategy is more palatable. On the other hand, the quarterly defined outcome strategy may be more suitable in terms of seeking to lower the U.S. equity beta in a portfolio.

Why Should Investors Consider Defined-Outcome Strategies?

After a period of low interest rates and strong equity performance for most of the past decade, the recent inflationary environment led central banks around the globe to increase interest rates at an enhanced pace. This activity has slowed in the late stages of 2023. However, companies that benefitted from the previous low interest rate environment are still under pressure. The bond market has been adversely affected as well, with noteworthy weakness for the typical 60/40 portfolio and a side-effect of rising correlations between equity and fixed income markets. With the potential for higher volatility, it may make sense to explore a defined-outcome strategy for additional sources of portfolio diversification beyond typical asset classes.

FIXED INCOME ROLLING CORRELATIONS TO U.S. EQUITIES

Source: Global X ETFs illustration, with data derived from Morningstar (n.d.) [Correlation]. Data is measured as the monthly rolling correlation between the S&P 500 Index and the Bloomberg U.S. Aggregate Bond Index from April 30th, 2014 to August 31st 2023 and was retrieved on September 7th, 2023 from Global X ETFs Morningstar Direct license.



As the COVID-19 pandemic showed, the risk of an unknown event or a market correction could always be looming on the horizon. Expecting potential capitulation within equity markets, limiting left tail risk may be a priority as opposed to maximizing gains. A defined-outcome strategy can potentially allow an investor to achieve multiple objectives. If equity markets were to fall, a defined-outcome strategy would be expected to provide its specified level of downside protection. However, if markets were to rise, participation in the potential upside of the underlying asset is still possible.

S&P 500 HISTORICAL DRAWDOWNS

Source: Global X ETFs – Morningstar (n.d.) [Return] [Data set]. Drawdowns are declines of 10% or more over any three-month rolling period and is measured from August 31st, 2000 to August 31st, 2023 and was retrieved on September 7th, 2023 from Global X ETFs Morningstar Direct license.



Defined-Outcome Strategies Can Potentially Help Alleviate Portfolio Volatility

Investors have typically sought different types of strategies to lower their portfolio's volatility and mitigate substantial downside movements on particular assets. One common example of this is by purchasing a protective put. These types of option strategies simply purchase a long position on an underlying asset paired with a long put option on the same asset for a level of downside protection. The difference between a protective put and a zero-cost put spread collar, such as a defined-outcome strategy, is that a protective put strategy is expected to have a net premium cost while a defined-outcome strategy is expected to use a covered call to offset premium costs. Therefore, the trade-off is that a protective put may offer higher potential upside, but a defined-outcome strategy may offer a higher level of equity risk reduction related to the underlying asset.

Employing a low volatility factor strategy could be useful in terms of mitigating broader volatility. These types of portfolios tend to be constructed by filtering through a larger index universe to create a roster of low volatility equities over a specific period. Implementing a defined-outcome strategy on a broad index such as the S&P 500 may serve as another option to offset sector risks of low volatility factor strategies to achieve a more explicit level of volatility reduction. Furthermore, a defined-outcome strategy can potentially serve as a complement to the traditional 60/40 equity/fixed income split to improve diversification through the options market.

Conclusion

While markets tend to rise over the long term, there are opportunities for investors to endure a less volatile experience. Using a defined-outcome strategy within a portfolio could provide a way to mitigate potential downside risks while also participating in rising markets. With an explicit level of downside protection over the life of the options overlay, defined-outcome strategies have historically been utilized by investors to minimize equity volatility while avoiding the duration risks of fixed income securities to stay invested in equities for longer.

The Global X UCITS ETFs are regulated by the Central Bank of Ireland.

This is a marketing communication.

Please refer to the relevant prospectus, supplement, and the Key Information Document ("KID") of the relevant UCITS ETFs before making any final investment decisions.



Investors should also refer to the section entitled “Risk Factors” in the relevant prospectus of the UCITS ETFs in advance of any investment decision for information on the risks associated with an investment in the UCITS ETFs, and for details on portfolio transparency. The relevant prospectus and KID for the UCITS ETFs are available in English at www.globalxetfs.eu/funds.

Investment in the UCITS ETFs concern the purchase of shares in the UCITS ETFs and not in a given underlying asset such as a building or shares of a company, as these are only the underlying assets that may be owned by the UCITS ETFs.

A UCITS ETF's shares purchased on the secondary market cannot usually be sold directly back to a UCITS ETF. Investors must buy and sell shares on a secondary market with the assistance of an intermediary (e.g. a stockbroker) and may incur fees for doing so. In addition, investors may pay more than the current net asset value when buying shares and may receive less than the current net asset value when selling them. Changes in exchange rates may have an adverse effect on the value price or income of the UCITS ETF.

Past performance of a UCITS ETF does not predict future returns. Future performance is subject to taxation which depends on the personal situation of each investor, and which may change in the future. Neither past experience nor the current situation are necessarily accurate guides to the future growth in value or rate of return of a UCITS ETF.

Investment may be subject to sudden and large falls in value, and, if it is the case, the investor could lose the total value of the initial investment. Income may fluctuate in accordance with market conditions and taxation arrangements. The difference at any one time between the sale and repurchase price of a share in the UCITS ETF means that the investment should be viewed as medium term to long term.

Any investment in a UCITS ETF may lead to a financial loss. The value of an investment can reduce as well as increase and, therefore, the return on the investment will be variable.

Global X ETFs ICAV is an open-ended Irish collective asset management vehicle issuing under the terms of its prospectus and relevant supplements as approved by the Central Bank of Ireland and is the issuer of certain of the ETFs where stated.

Global X ETFs ICAV II is an open-ended Irish collective asset management vehicle issuing under the terms of its prospectus and relevant supplements as approved by the Central Bank of Ireland and is the issuer of certain of the ETFs where stated.

Communications issued in the European Union relating to Global X UCITS ETFs are issued by Global X Management Company (Europe) Limited (“GXM Europe”) acting in its capacity as management company of Global X ETFs ICAV. GXM Europe is authorised and regulated by the Central Bank of Ireland. GXM Europe is registered in Ireland with registration number 711633.

Communications issued in the United Kingdom and Switzerland relating to Global X UCITS ETFs are issued by Global X Management Company (UK) Limited (“GXM UK”), which is authorised and regulated by the Financial Conduct Authority. The registered office of GXM UK is 77 Coleman St, London, EC2R 5BJ, UK. Information about GXM UK can be found on the Financial Services Register (register number 965081).

Information for Investors in Switzerland

This is an advertising document. The state of the origin of the fund is Ireland. In Switzerland, the representative is 1741 Fund Solutions AG, Burggraben 16, CH-9000 St.Gallen. The paying agent is Telco AG, Bahnhofstrasse 4, 6430 Schwyz.

The prospectus, the key information documents, the articles of association as well as the annual and semi-annual reports may be obtained free of charge from the representative.

Past performance is no indication of current or future performance. The performance data do not take account of the commissions and costs incurred on the issue and redemption of units.

