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Nasdaq

Why Downside Protection Makes So Much Sense Right Now

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As with all investments, your capital is at risk

IBKR Spotlight, 4/17/2024

Why Downside Protection Makes So Much Sense Right Now



Hello Philip

Philip Sun, CEO and Co-founder, @Adaptive

Former quant and fund manager, @Sentinel, @Fidelity,
@Wellington, @Highbridge, @PanAgora

Adjunct Professor, @Boston University MSMFT Program and @Hult
International Business School, UG, PG and DBA Programs

MBA @Wharton, PhD Physics @CMU, CFA



Hello Kevin

Kevin Davitt, Head of Index Options Content, @Nasdaq

Former market maker (on floor & off) who managed risk in equity,
ETF, and Index products (1999 – 2007).

Commodity derivative experience (2008 – 2014)

Marquette University, Finance & Political Science

Evans Scholar Alum (Western Golf Association)

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Topics

1. **Intro:** Downside Protection Makes So Much Sense Right Now
2. **Spotlight:** Downside Protection Made Easy with **Index Puts**
3. **Spotlight: Buy-and-Hold 2.0**—Alternative to Asset Allocation
4. Q&A

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Why Now & Why With Options

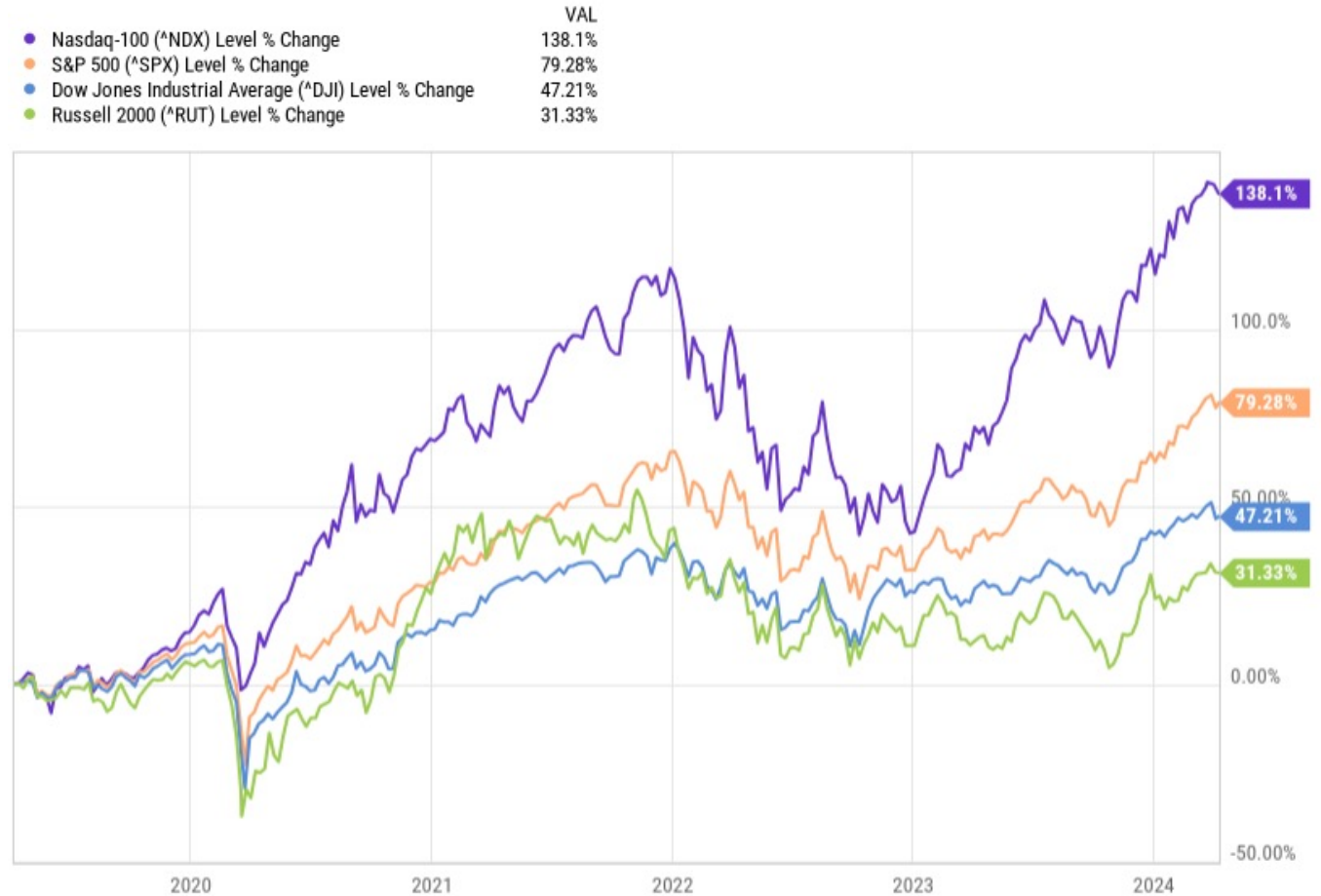
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“Buy protection when you can, not when you ‘have’ to”.

Avoiding poor (emotionally driven) decisions can be more important than making savvy ones.

Relatively low macro volatility with very unusual skew dynamics.

Most [rate hiking cycles end in recession](#). Some resolve in financial crisis (1974, 2000, 2008).



Stock Market Down 10% or More Once a Year

Standard & Poor's 500 Composite Index (1948-2017)



Sources: RIMES, Standard & Poor's. Assumes 50% recovery of lost value. Length measures market high to market low.

The volatility of early 2018 may have felt more jarring than usual because it followed a year that didn't have a single 5% decline. But the market movements of 2018 are much more typical than those in 2017. In fact, since 1980 there have been only four years that had no such drawdown.

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Downside Protection Made Easy and Cost Effective with Index Options

Problem:

- Equity index options are *underutilized* in the retail market ... for *risk management*.
- Cost of hedging a diversified portfolio with *index puts* is lower than buying puts on individual names... but how?
- Trading option is complex, technical and error prone.

Solution:

- Leverage *quant finance* and *computing technology to* automate, streamline and simplify options strategy.
- Simplified and cost effective option strategies are suitable for wealth advisors, their clients and individual investors.

Spotlight on...

“Know Your Options”

—Hedging Made Easy
with Index Options

Know Your Options: Index Puts

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Most Liquid:

- NDX (XND), Nasdaq 100, Nasdaq
- SPX (XSP), S&P500, CBOE
- RUT (MRUT), Russell 2000, CBOE

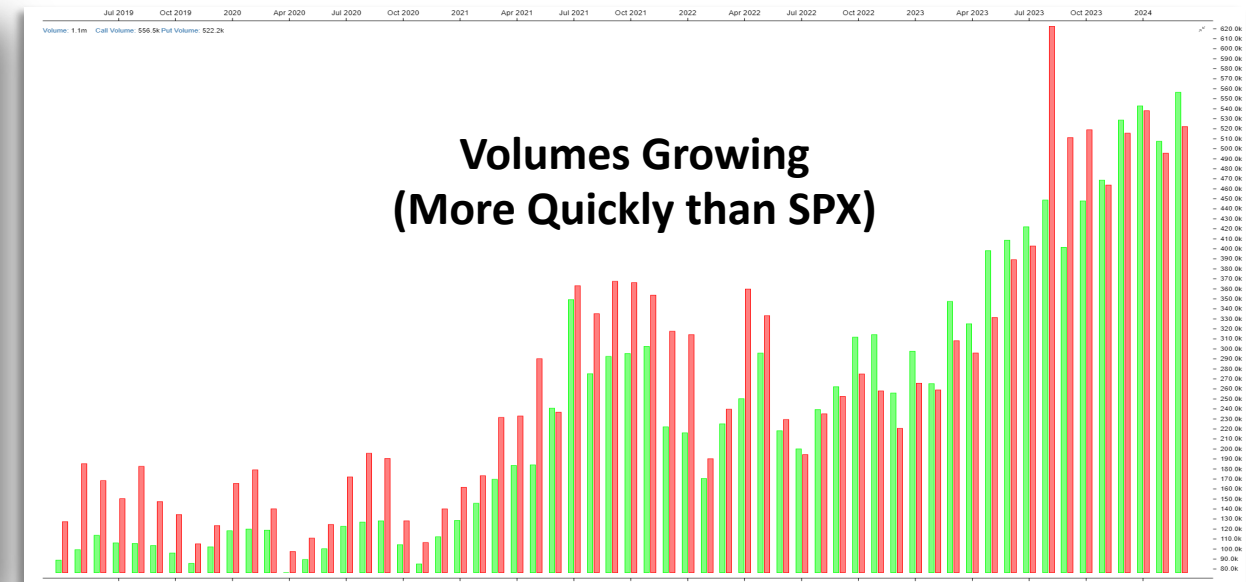
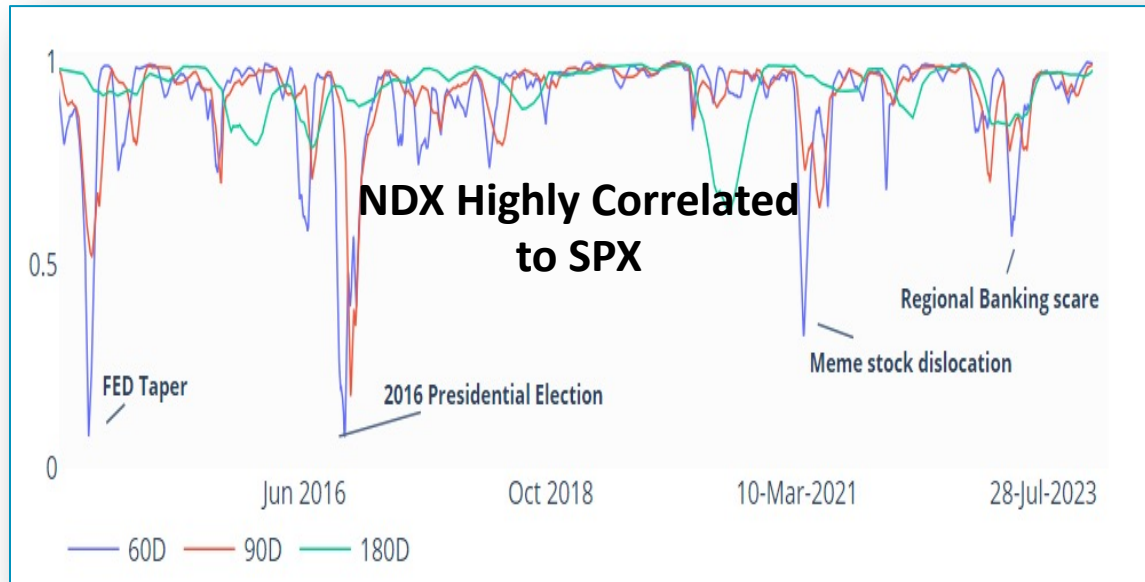
Also Available:

- MSCI Global Indexes (CBOE)

What is the Nasdaq-100 Index (NDX)?

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- The companies in the NDX include 100+ of the largest domestic and international non-financial companies.
 - NDX/S&P 500 Correlation (10 Years)



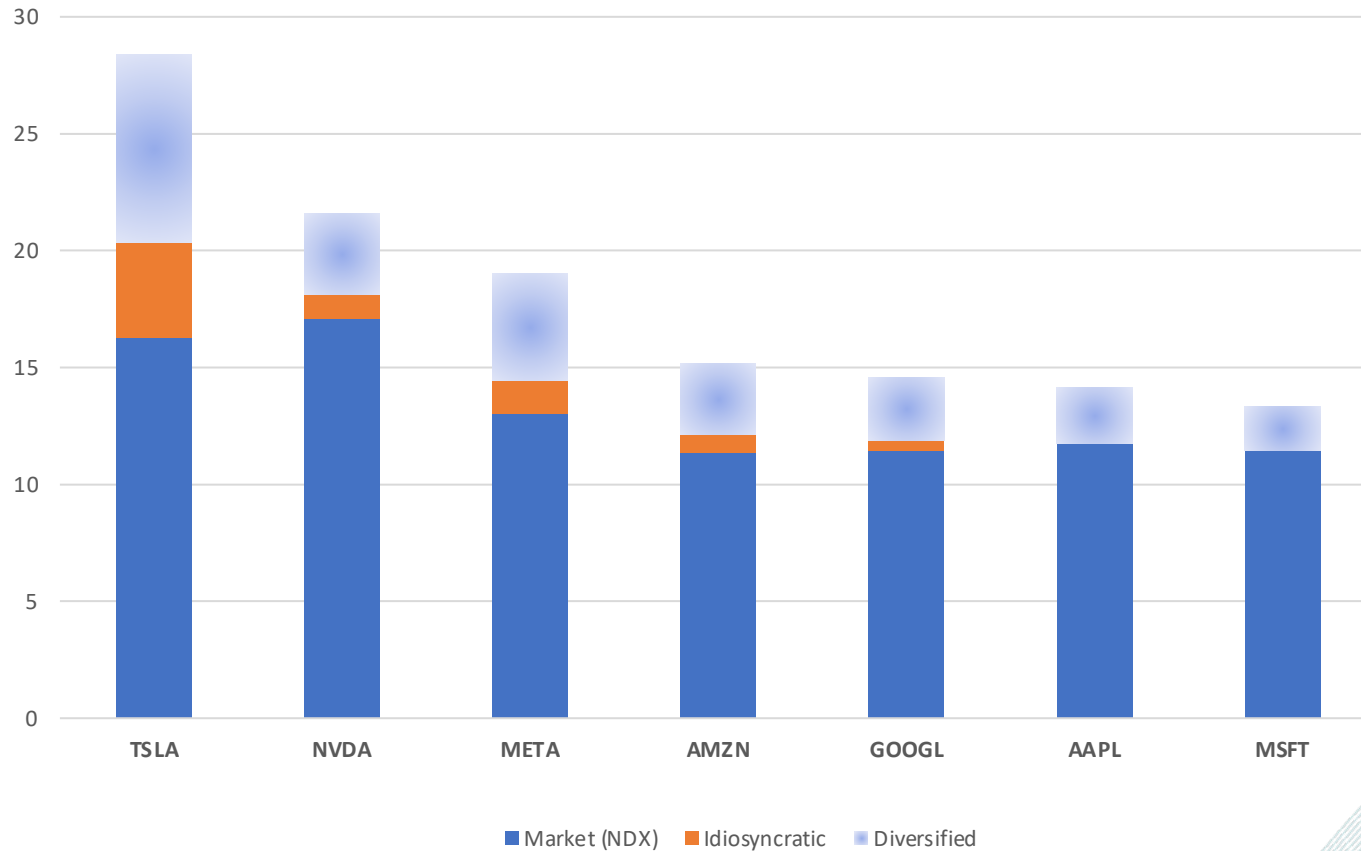
NDX has high exposure (weighting) to the companies that continue to change the world (many generating significant cash flows).

Nasdaq-100 Micro Index XND tracks the NDX with 1/100th the notional exposure of the full-sized index.

NDX is A “Magnificent” Hedge

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Risk Contribution (% of Total Portfolio Risk)
Equal-Weight Magnificent 7 Portfolio



Portfolio Annual Volatility	32.5%
Market (NDX) Contribution	30.0%
<i>beta</i>	<i>1.2</i>
Total from Idiosyncratic Risk	2.5%
Total Risk Reduction (due to diversification)	8.5%

Hedging with Index is Cost Effective

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MODEL PORTFOLIO

The Magnificent Seven

PORTFOLIO VALUE

\$1,000,000.00

PROTECTION PERIOD

1 Month

May 3, 2024

PROTECTION LEVEL

90%

\$900,000.00

MARKET PROTECTION ESTIMATE

\$3,484.00

0.35% of total portfolio value

Risk Weather is LOW. The market is currently anticipating relatively small moves down or up. Downside protection costs are cheaper than historical averages. [Learn more.](#)

Portfolio Details +

PORTFOLIO PROTECTION

Put contracts for individual portfolio holdings, with approximated strike price & expiration. [Learn more.](#)

#	CONTRACT	QUANTITY	PRICE	TOTAL
1	AAPL MAY 10 2024 \$155.0 PUT	9	\$1.04	\$936.00
2	AMZN MAY 10 2024 \$165.0 PUT	8	\$2.27	\$1,816.00
3	GOOGL MAY 10 2024 \$140.0 PUT	10	\$1.44	\$1,440.00
4	META MAY 10 2024 \$460.0 PUT	3	\$10.30	\$3,090.00
5	MSFT MAY 10 2024 \$380.0 PUT	4	\$2.59	\$1,036.00
6	NVDA MAY 10 2024 \$805.0 PUT	2	\$14.85	\$2,970.00
7	TSLA MAY 10 2024 \$155.0 PUT	9	\$5.50	\$4,950.00

Total Cost : \$16,238.00

MARKET PROTECTION

Mini-SPX Put Options on the S&P 500 market index, with approximated strike price & expiration. [Learn more.](#)

This free tool is limited to the S&P 500. [Sign up for the Free Trial](#) to see portfolio fit for other indexes including the Nasdaq 100 & Russell 2000.

#	CONTRACT	QUANTITY	PRICE	TOTAL
1	XND2024-05-03P168	67	\$0.52	\$3,484.00

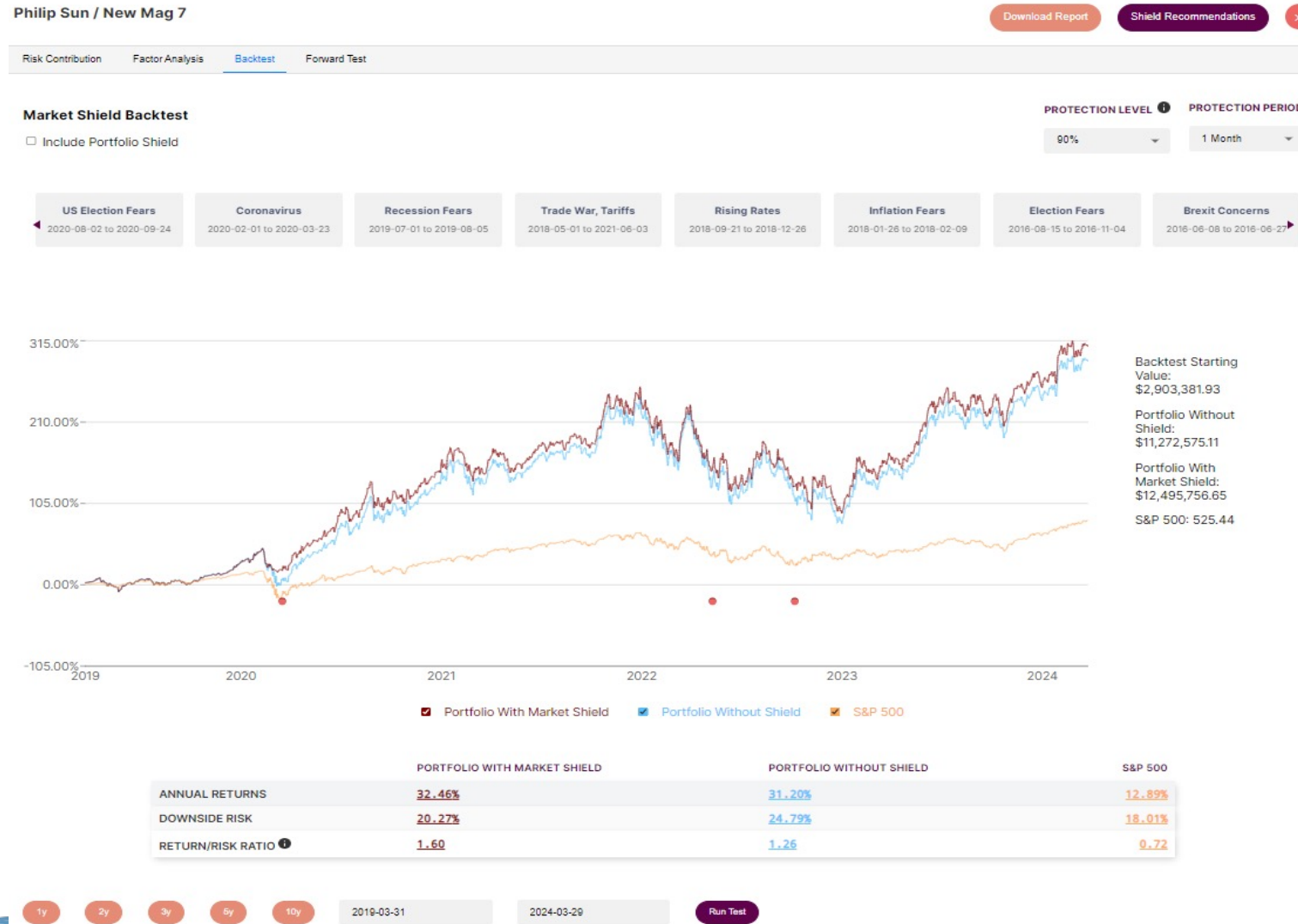
Total Cost : \$3,484.00

Beta 1.22; Tracking Error 9.09; R-Squared 92.31%

[Sign up for the Free Trial](#) to see fit with other indexes (Nasdaq 100, Russell 2000).

Historical Backtest of “Magnificent 07”

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Offset Protection Cost with Covered Calls

Philip Sun / Mag 7 for Call Writing

Shield Recommendation Call Writing Put Buying

PROTECTION TYPE	
PROTECTION PERIOD	1 Month ▼
PROTECTION LEVEL	90 ▼
ASSET ALLOCATION ⓘ	
PORTFOLIO ANALYTICS	Tracking Error 8.97 %
PROTECTION PRICE	\$3,484.00 (0.35%)
PREMIUM COVERED CALLS	\$11,484.00
COST INDIVIDUAL PUTS	\$0.00
NET COST/INCOME	\$11,484.00 (1.15%)

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Covered Calls on Magnificent 7

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Philip Sun / Mag 7 for Call Writing

Shield Recommendation [Call Writing](#) Put Buying

List of Symbols

Global Cap Level

Exp Date

Portfolio Value: **\$1,001,766.45**

Premium Total **\$11,484.00 (1.15%)**

<input checked="" type="checkbox"/>	SYMBOL ↕	SHARES ↕	NO CONTRACTS	CAP LEVEL ↕	EXP DATE ↕	BID	PREMIUM \$	% STOCK VALUE	% PORTFOLIO VALUE
<input checked="" type="checkbox"/>	AAPL	833.08	<input type="text" value="8"/>	<input type="text" value="110"/>	<input type="text" value="05/02/2024"/>	0.80	\$640.00	0.453%	0.064%
<input checked="" type="checkbox"/>	AMZN	791.98	<input type="text" value="7"/>	<input type="text" value="110"/>	<input type="text" value="05/02/2024"/>	2.22	\$1554.00	1.076%	0.155%
<input checked="" type="checkbox"/>	GOOGL	946.52	<input type="text" value="9"/>	<input type="text" value="110"/>	<input type="text" value="05/02/2024"/>	1.36	\$1224.00	0.835%	0.122%
<input checked="" type="checkbox"/>	META	294.2	<input type="text" value="2"/>	<input type="text" value="110"/>	<input type="text" value="05/02/2024"/>	11.35	\$2270.00	1.523%	0.227%
<input checked="" type="checkbox"/>	MSFT	339.55	<input type="text" value="3"/>	<input type="text" value="110"/>	<input type="text" value="05/02/2024"/>	2.07	\$621.00	0.435%	0.062%
<input checked="" type="checkbox"/>	NVDA	158.1	<input type="text" value="1"/>	<input type="text" value="110"/>	<input type="text" value="05/02/2024"/>	16.15	\$1615.00	1.148%	0.161%
<input checked="" type="checkbox"/>	TSLA	812.66	<input type="text" value="8"/>	<input type="text" value="110"/>	<input type="text" value="05/02/2024"/>	4.45	\$3560.00	2.602%	0.355%

Spotlight on...

“Know Your Options”

—Alternative to
Buy-n-Hold Asset Allocation

Traditional “Buy-n-Hold”

For Buy-and-Hold investors, risk management means **owning less Stocks!**

- **Balance funds**: asset allocation with fixed Stocks/Bonds ratio, rebalanced monthly or quarterly.
- **Glide path**: Stocks allocation decline overtime as we approach retirement or with age.

Draw-backs of Traditional Asset Allocation Strategies:

- These are “**Active**” strategies: rebalancing entails market risk and has tax consequences.
- Manage downside risk by **giving up** equal portion of **upside** potential.

Buy-and-Hold 2.0

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Alternative to Asset Allocation

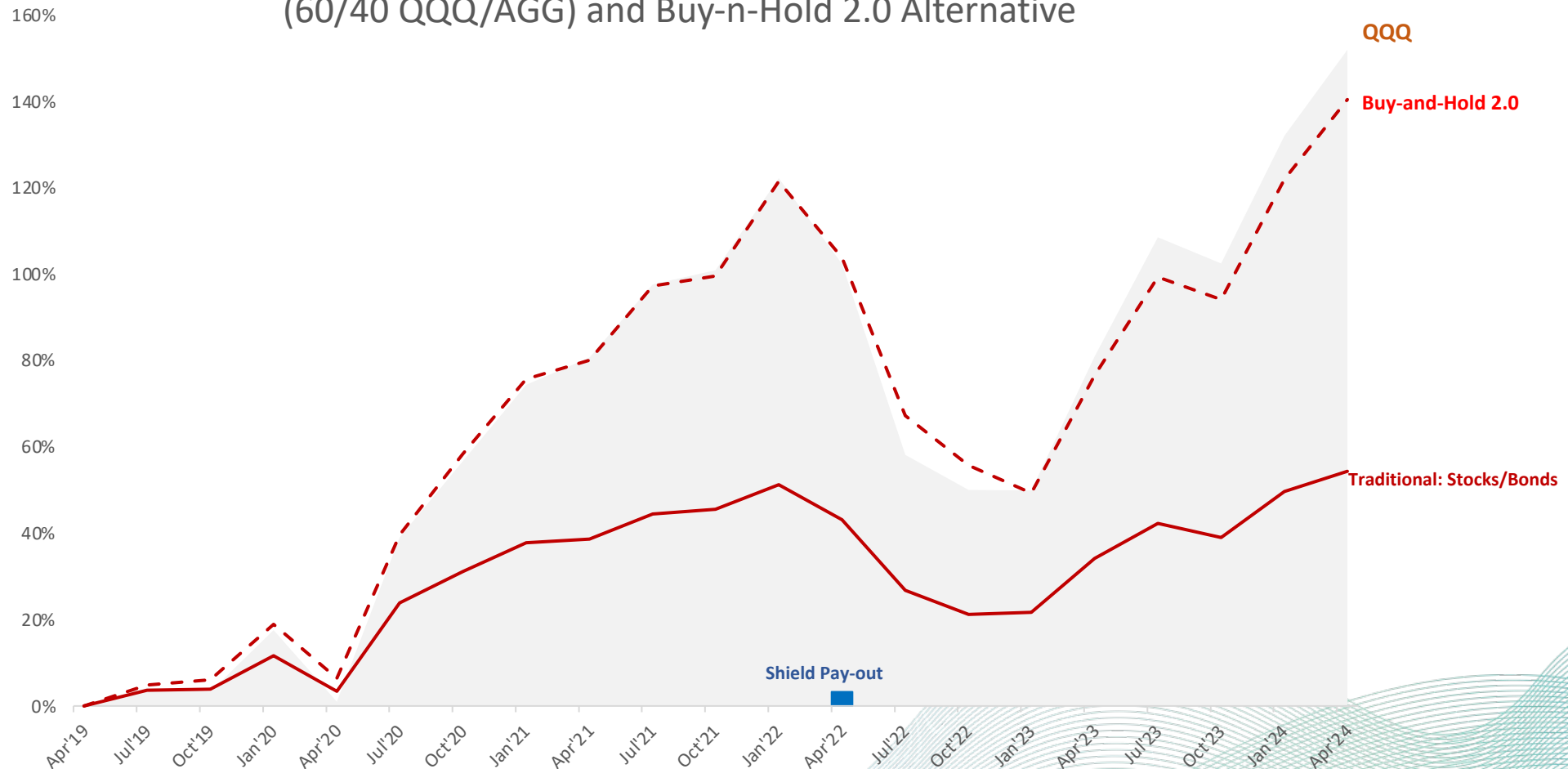
- Own 100% stocks
- Use downside protection (put buying or Adaptive Shield) to manage downside risk.
- **10%** downside protection equivalent to 50/50 Asset Allocation (12% \approx 60/40) [Update this rule of thumb with QQQ+Agg]

Advantages of Buy-and-Hold 2.0

- Passive buy-and-hold of stock portfolio
- Consistently buying puts are no more onerous than rebalancing
- Tax consequences are likely to be small or positive as we anticipate payoff of protection to be offset by costs that are deductible as investment losses
- **Maintain exposure to the upside**
- **Turn negative compounding on its head:** when market is down, re-invest payoff to boost positive compounding when market rebounds

Backtest 60/40 AA and Buy-and-Hold 2.0 Alternative

Cumulative Return of Traditional Stocks/Bonds Balanced Portfolio (60/40 QQQ/AGG) and Buy-n-Hold 2.0 Alternative



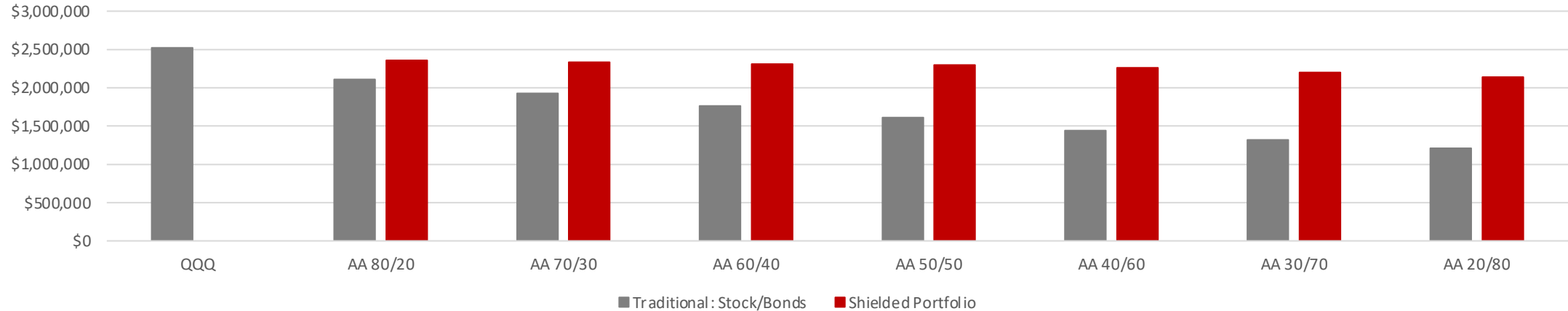
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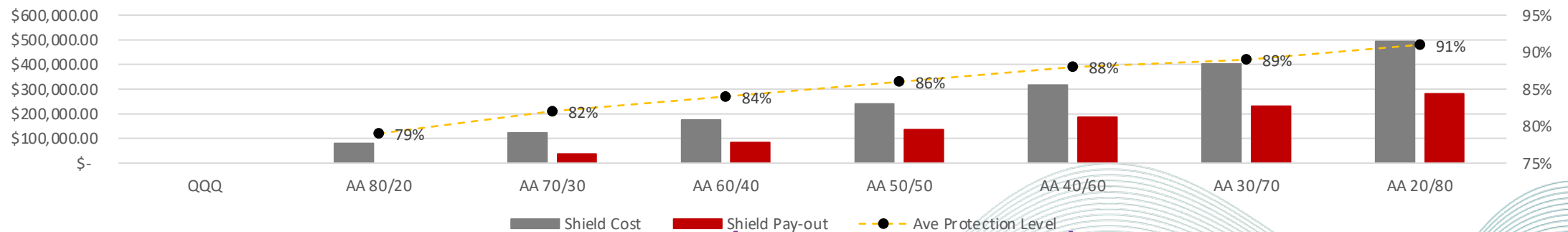
Buy-n-Hold 2.0 Backtest

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Ending Market Values (starting at \$1MM Portfolio 2017-2022)



Shield Costs and Payoff (starting portfolio value of \$1MM)



Ave Equivalent Protection Level ~ 86% for 3 months

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