

JULEX CAPITAL

The case for tactical asset allocation - Revisited

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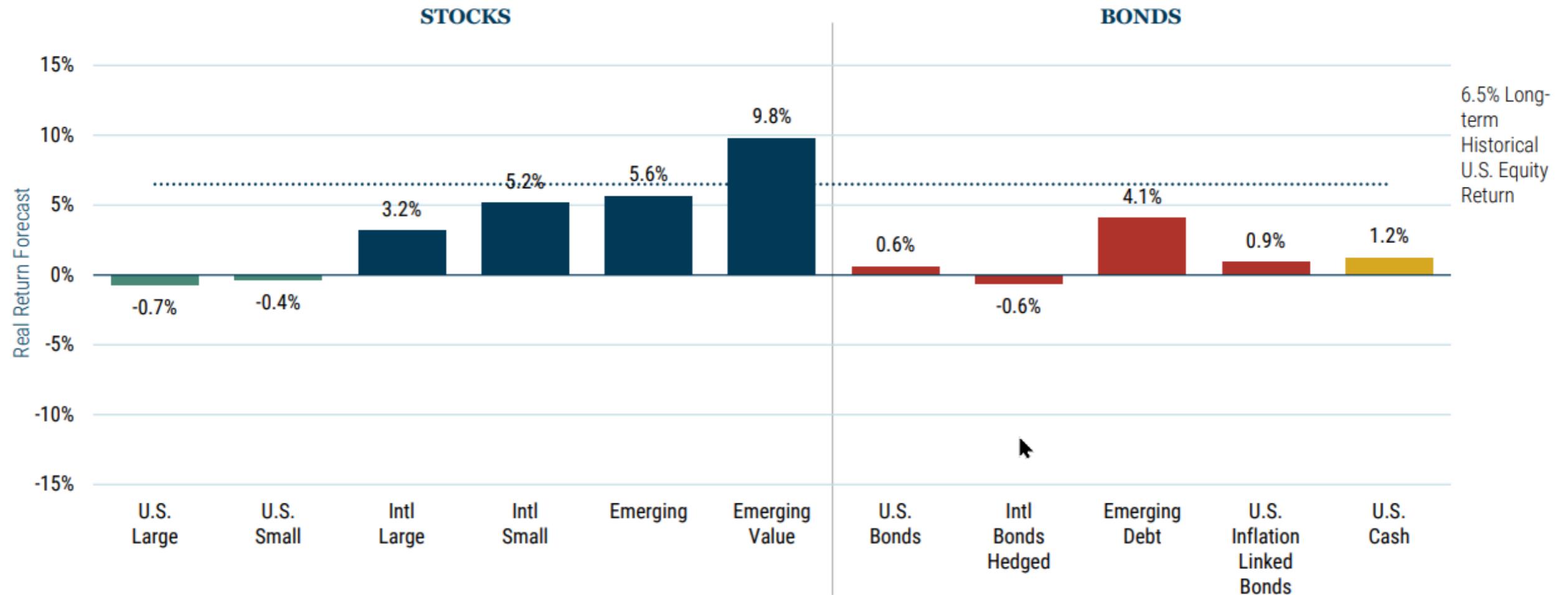
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GM0 7-Year Asset Class Forecast | January 10, 2023

GM0 7-YEAR ASSET CLASS FORECAST: 4Q 2022

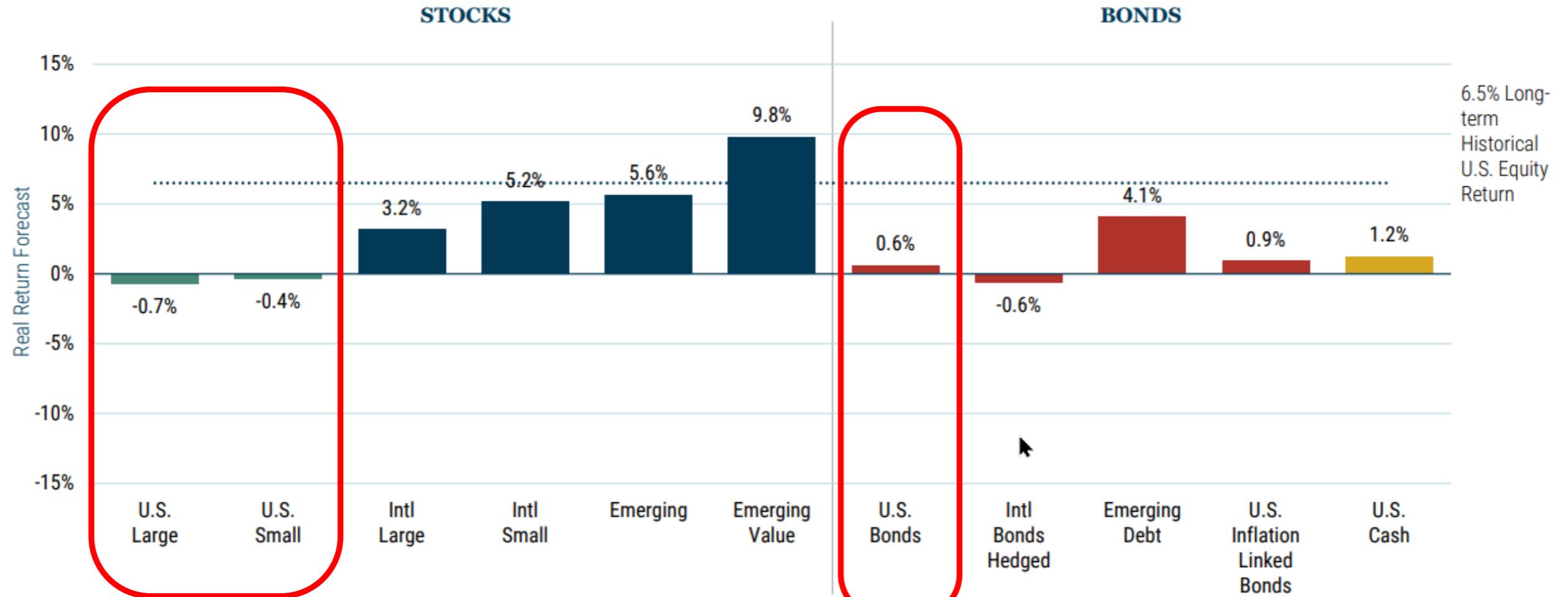
7-YEAR ASSET CLASS REAL RETURN FORECASTS*

As of December 31, 2022



7-YEAR ASSET CLASS REAL RETURN FORECASTS*

As of December 31, 2022



- 35 asset categories considered
- 1914 through the present
 - Multiple wars
 - Inflation, deflation
 - Banking crises
 - Terrorist acts
 - Rapid growth, stagflation
 - Numerous recessions, mild, average, severe
- All analysis completed after full adjustment for inflation

Primary sources of growth

| High-level asset category | Ticker symbol | Narrowly-defined asset |
|---------------------------|---------------|------------------------|
| U.S. stocks | VNQ | Real estate |
| | XLE | Energy |
| | XLF | Finance |
| | XLI | Industrials |
| | XLK | Technology |
| | XLU | Utilities |
| | XLV | Health care |

| | | |
|-----------------------------|------|----------------|
| International stocks | EWA | Australia |
| | EWC | Canada |
| | EWG | Germany |
| | EWJ | Japan |
| | EWT | Taiwan |
| | EWU | United Kingdom |
| | EWY | Korea |
| | EWZ | Brazil |
| | INDA | India |
| | MCHI | China |

| | | |
|--|-------------|-------------------------------|
| Industrial and agricultural commodities | DBA | Agricultural |
| | DBO | Oil |
| | PDBC or DBC | Ultra diversified commodities |

Primary sources of protection

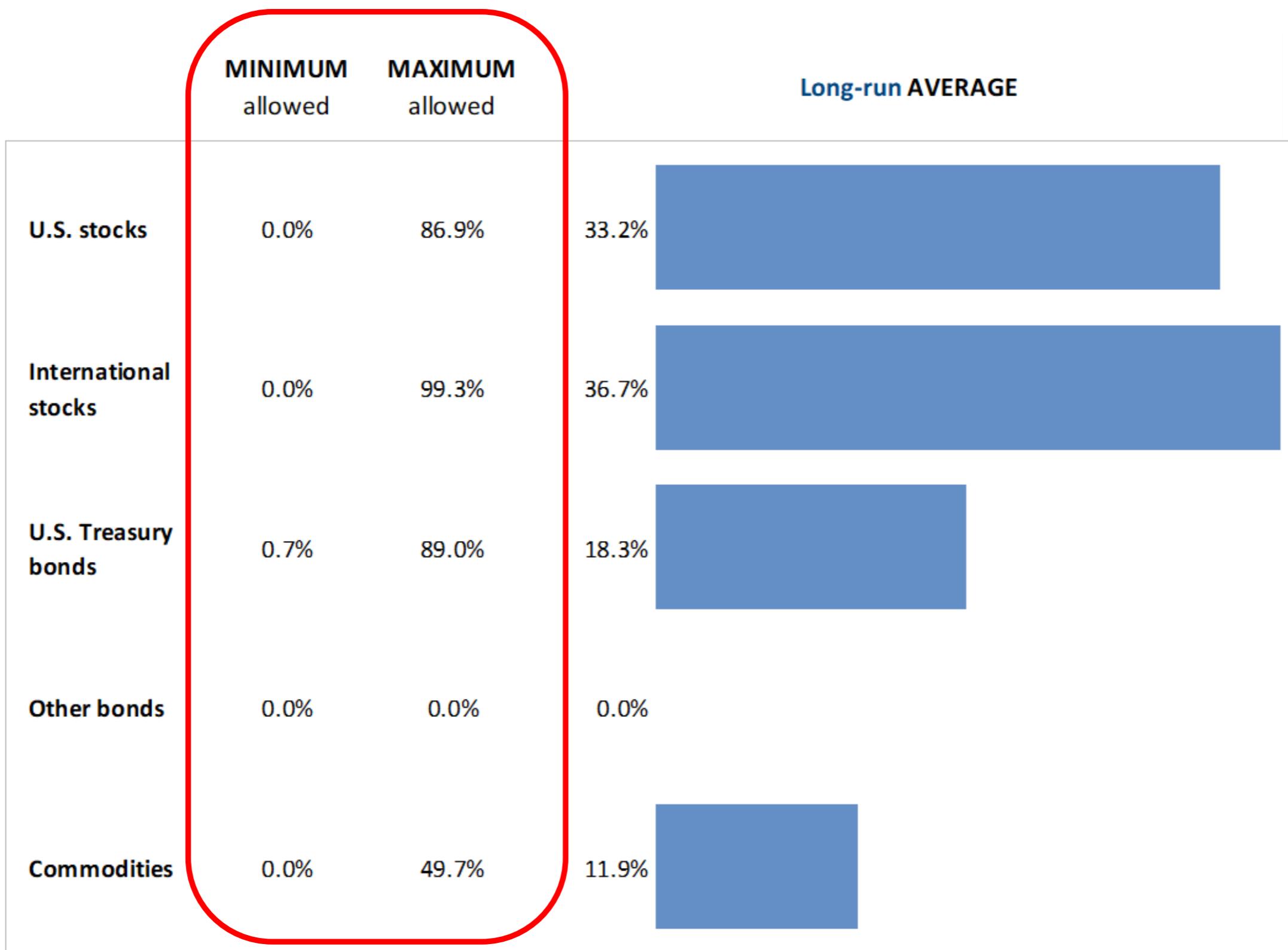
| High-level asset category | Ticker symbol | Narrowly-defined asset |
|------------------------------------|---------------|------------------------------------|
| Investment grade U.S. bonds | IEF | 7-10 year Treasury |
| | IEI | 3-7 year Treasury |
| | SHV | Short-term Treasury |
| | TIP | Inflation protected Treasury |
| | TLT | 20+ year Treasury |
| | VCIT | Intermediate investment grade corp |
| | ZROZ | Ultra long-term Treasury |

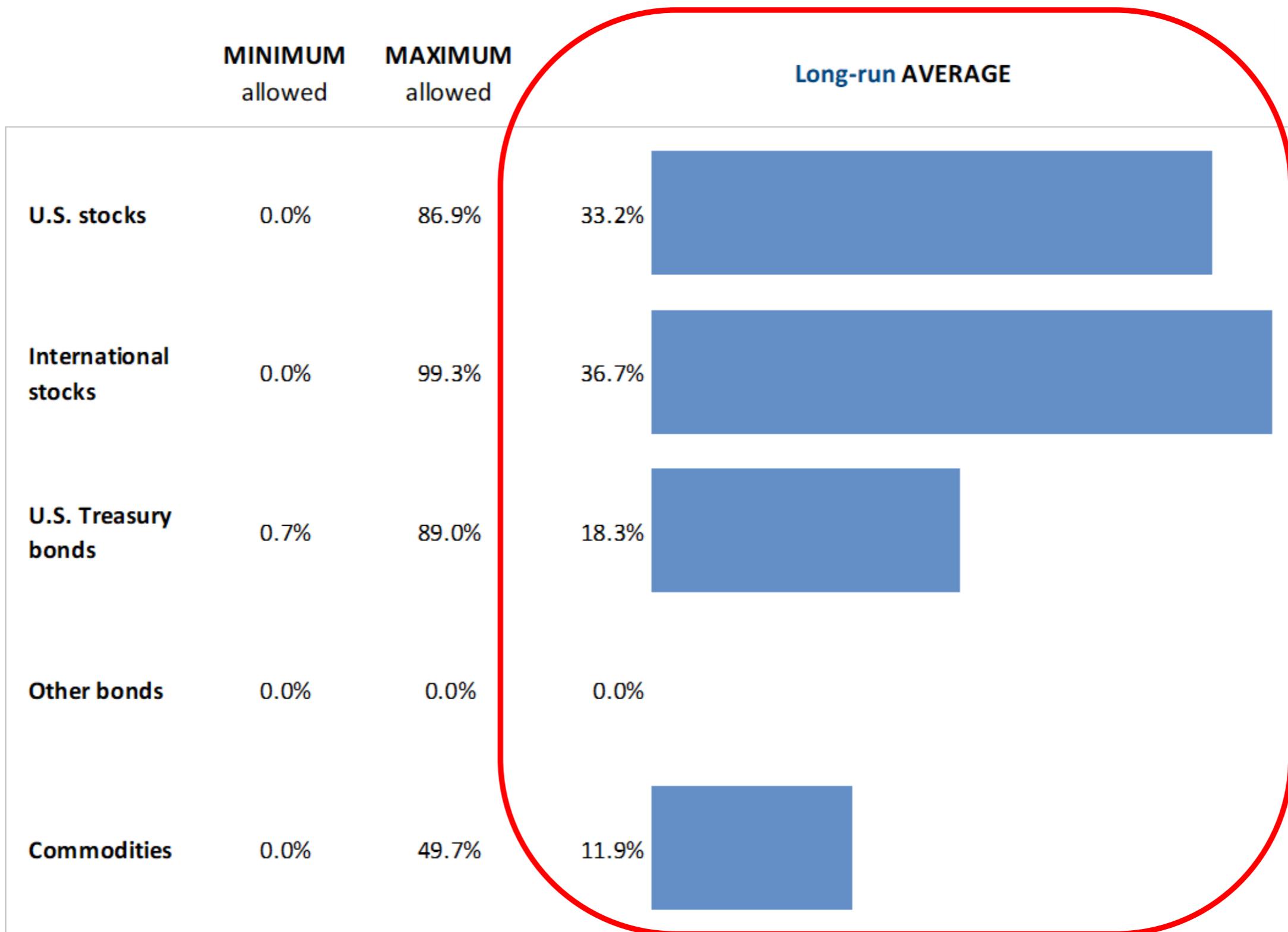
| | | |
|-------------------|-----|------------------|
| Junk bonds | HYG | High yield bonds |
|-------------------|-----|------------------|

| | | |
|------------------------|------|-----------------------------------|
| Precious metals | GDX | Gold mining company common stocks |
| | GLD | Gold |
| | GLTR | Ultra diversified precious metals |
| | PALL | Palladium |
| | PPLT | Platinum |
| | SLV | Silver |

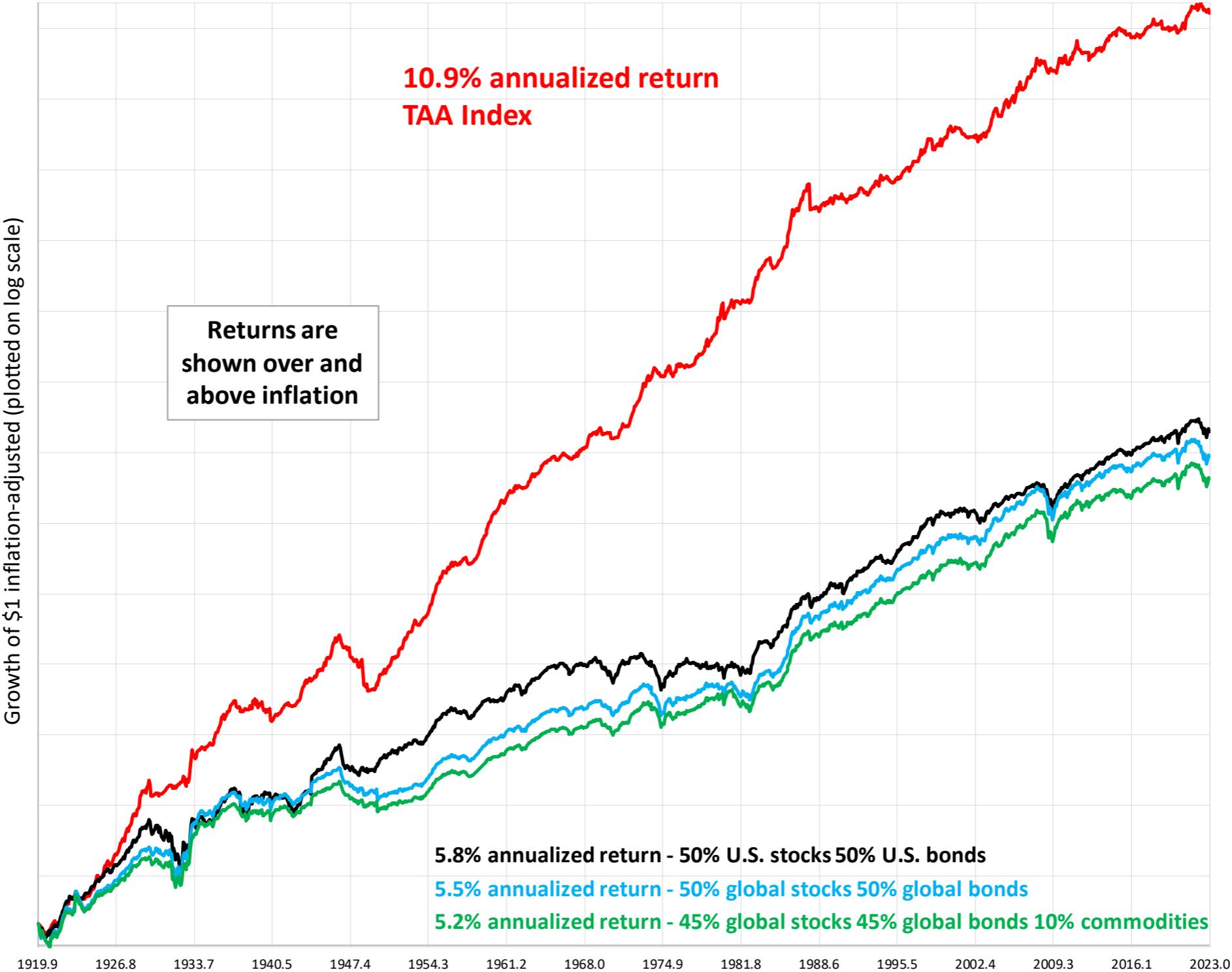
| | | |
|--------------------|------|---------------------------------------|
| Int'l bonds | EMLC | Local currency emerging country bonds |
|--------------------|------|---------------------------------------|

- Eight asset categories that trended the most strongly over the last 11 months
- Equal-weighted
- However Cash (90-Day Treasury Bills) are allowed to take a significant over-weight
- Unique client requirements
 - Investment time horizon of 14.9 years
 - Cash not allowed to exceed 61.4% of the portfolio for reasons of humility

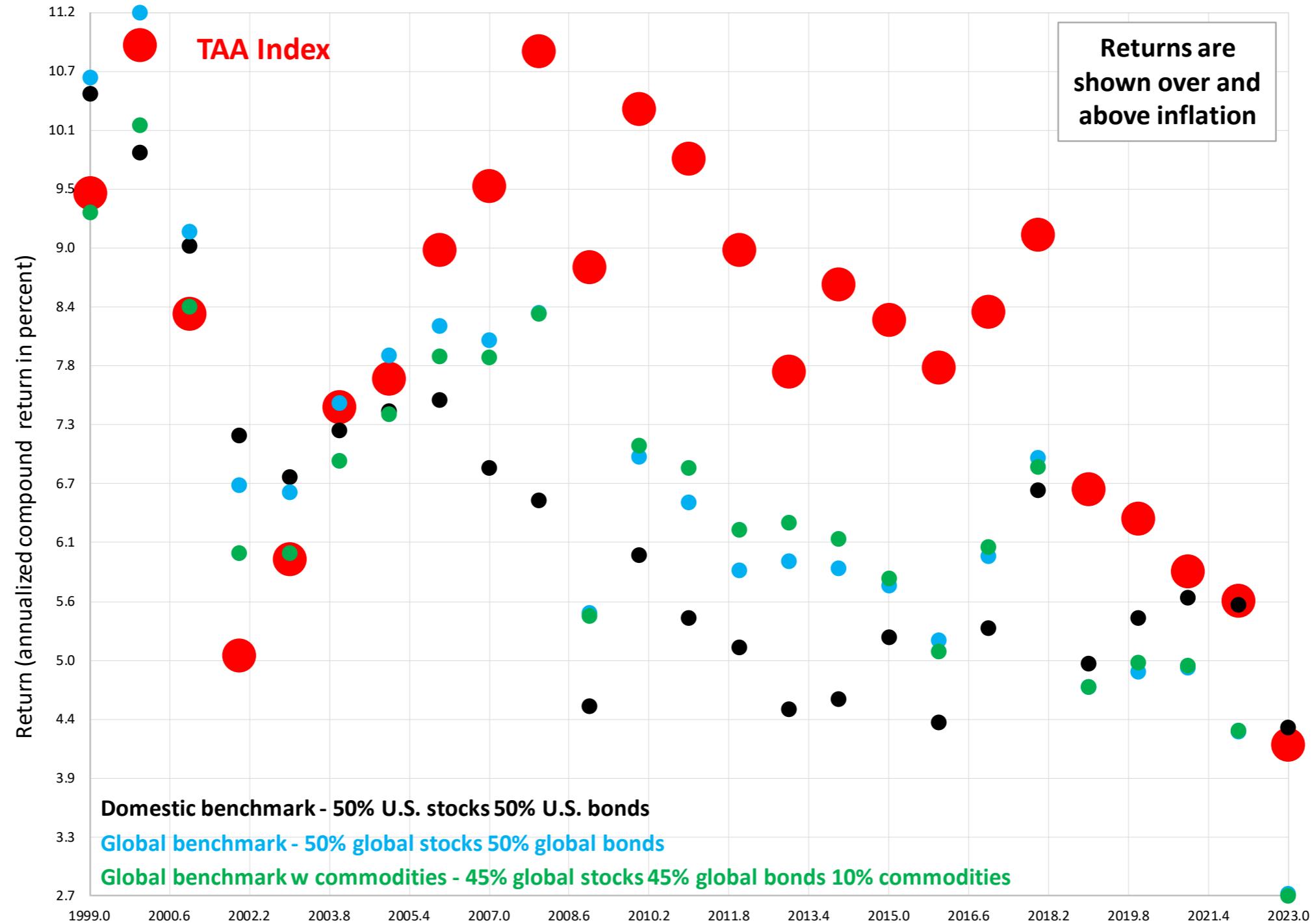


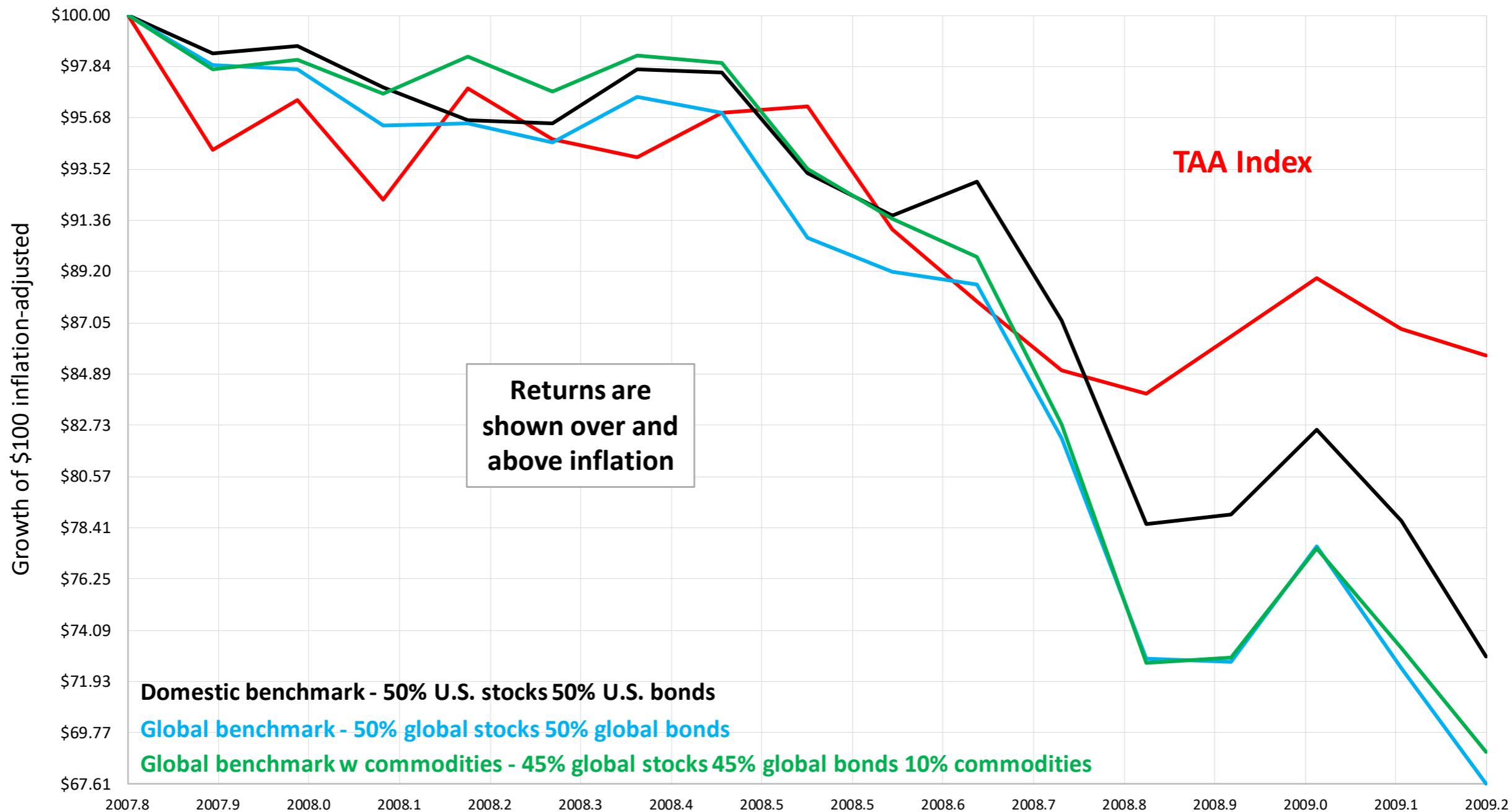


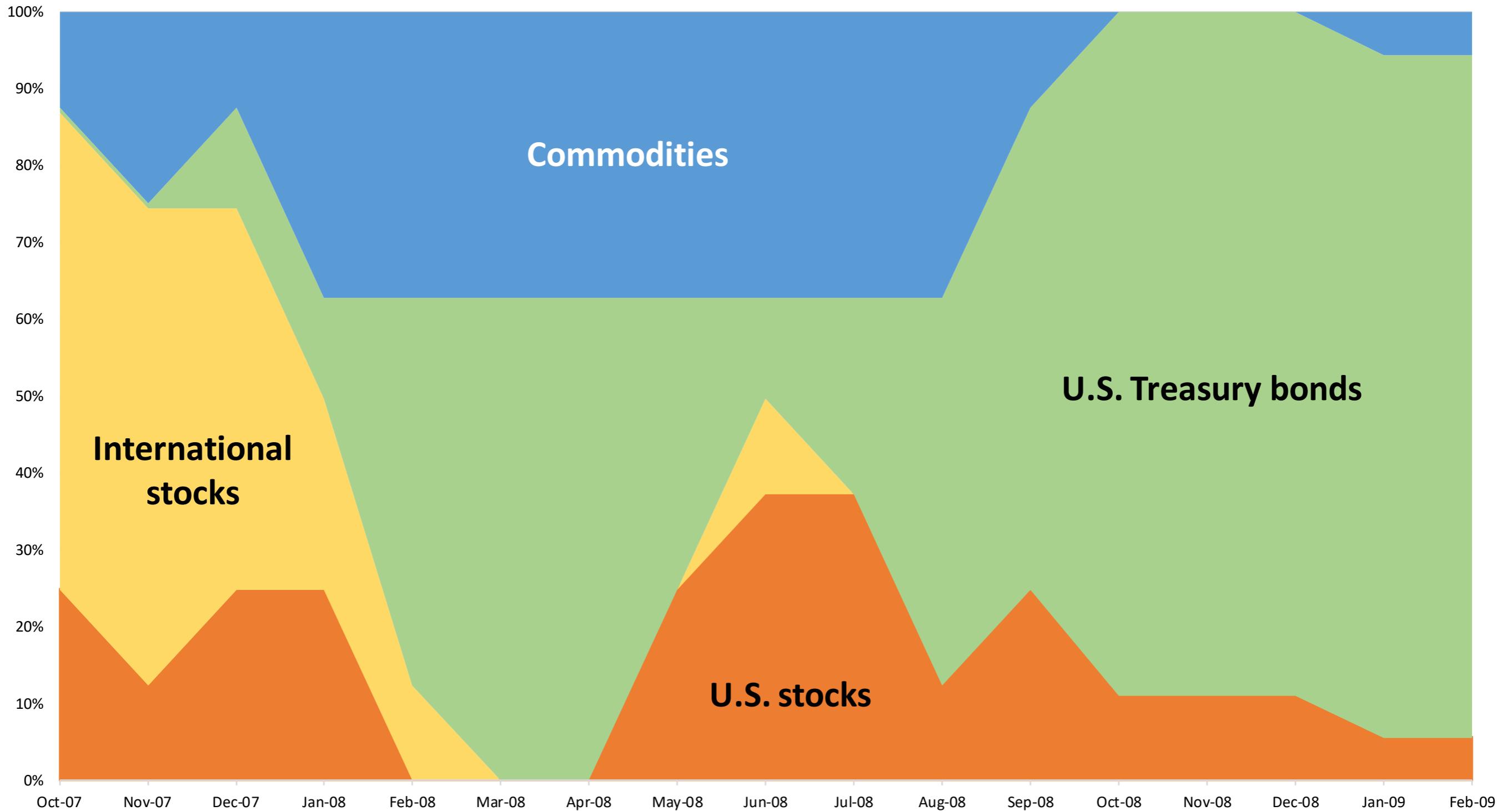
Large and consistent outperformance over the long-run

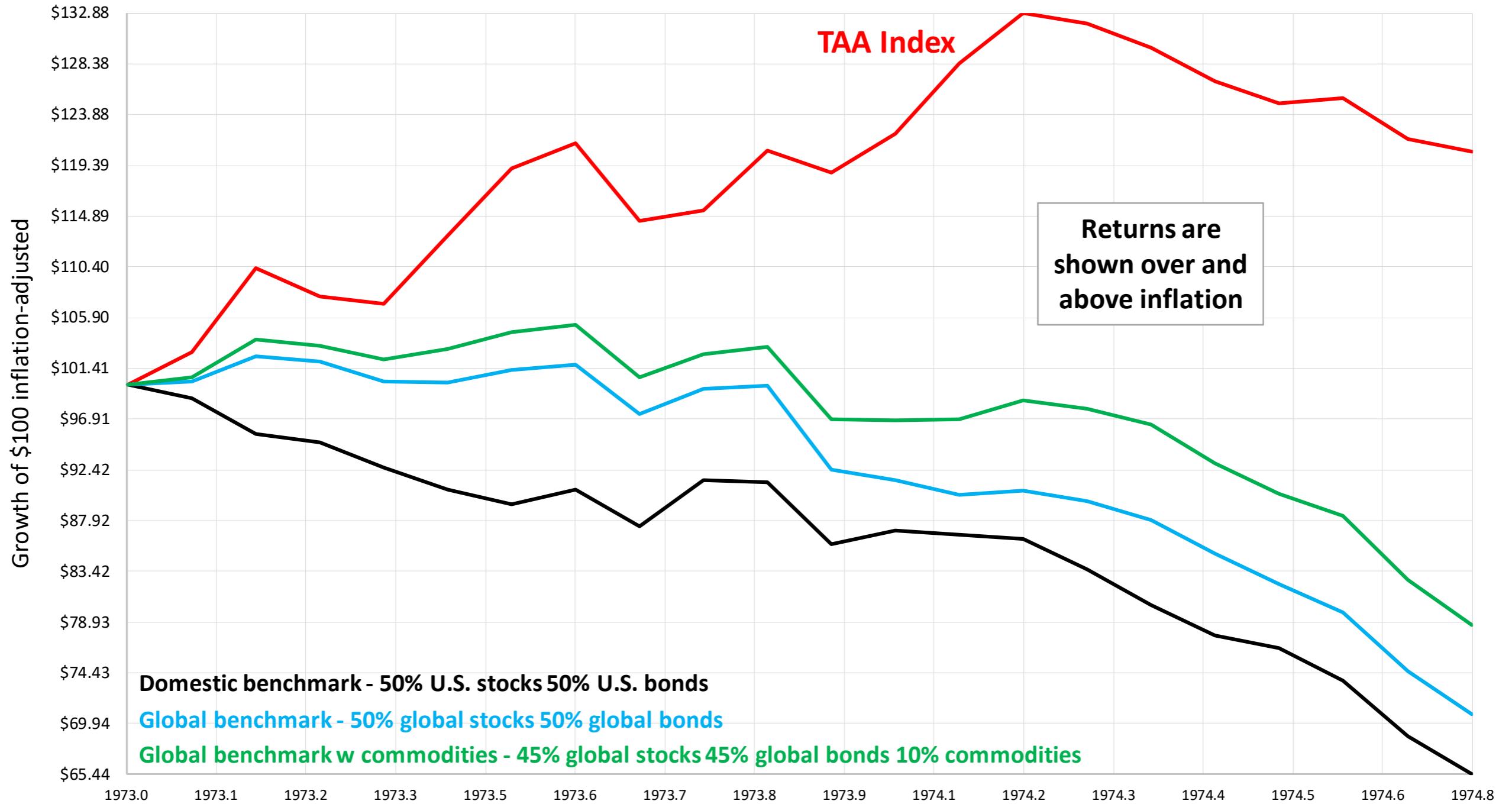


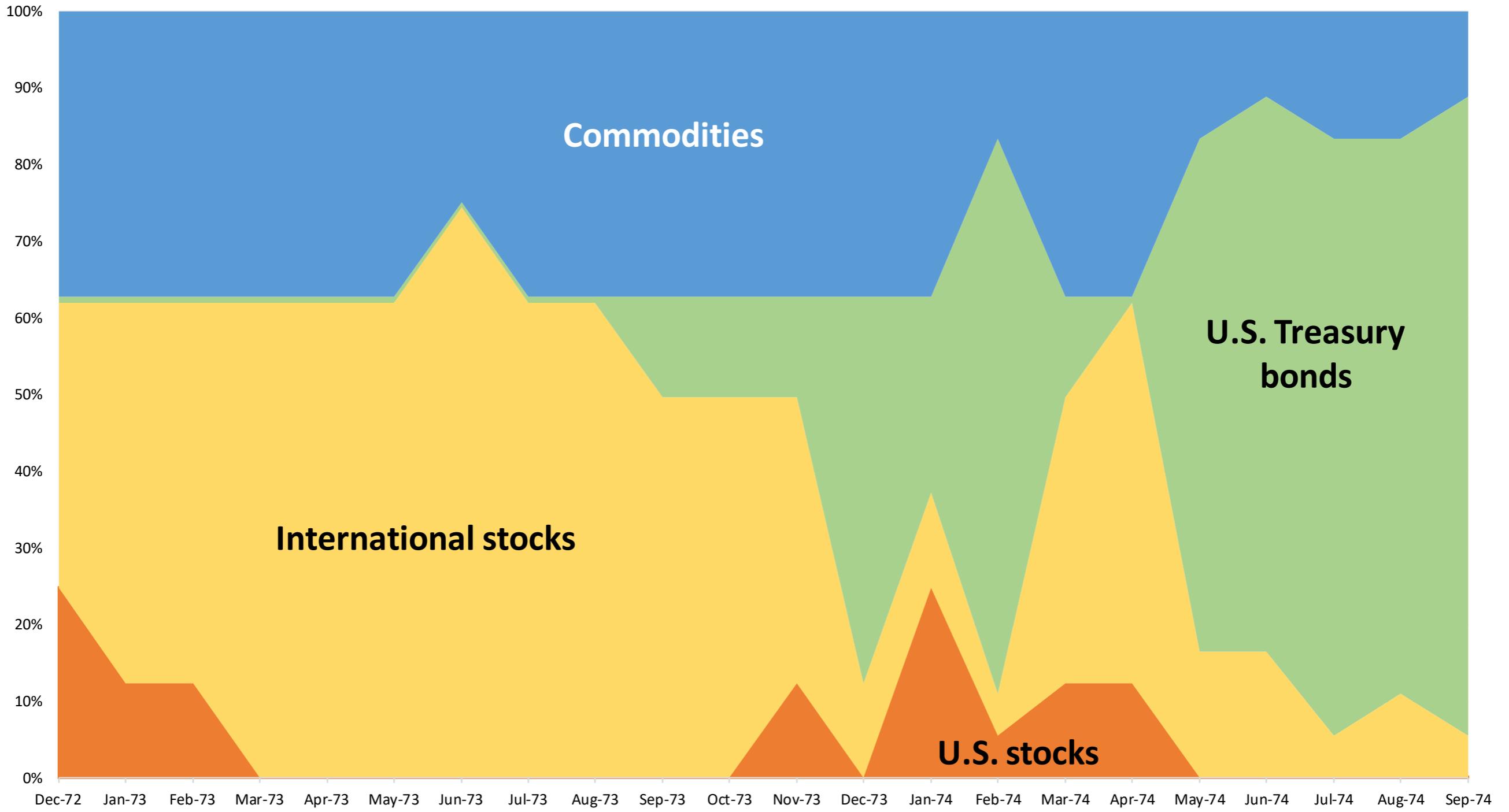
Outperformance over almost all 14.9-year investment periods

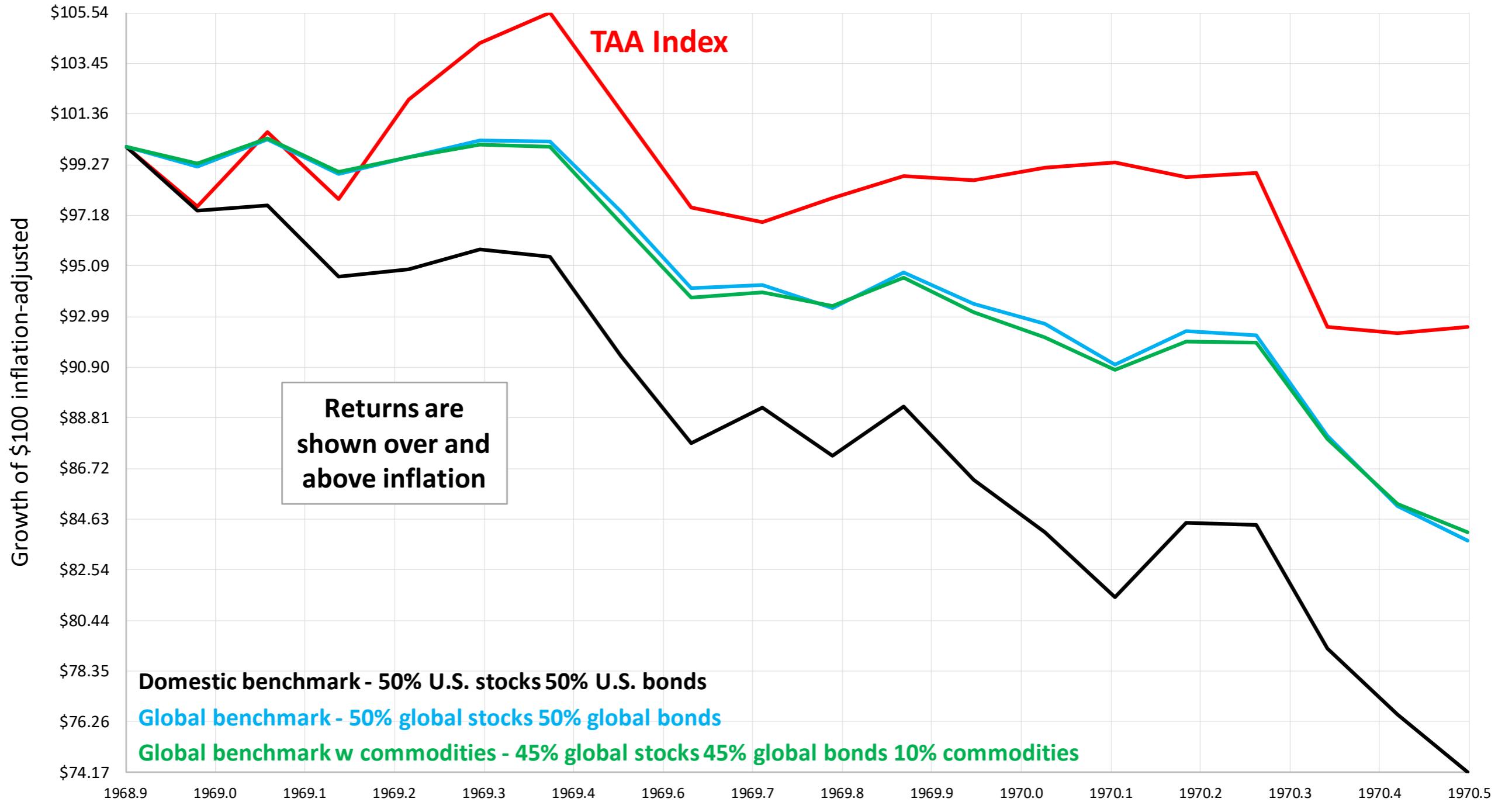


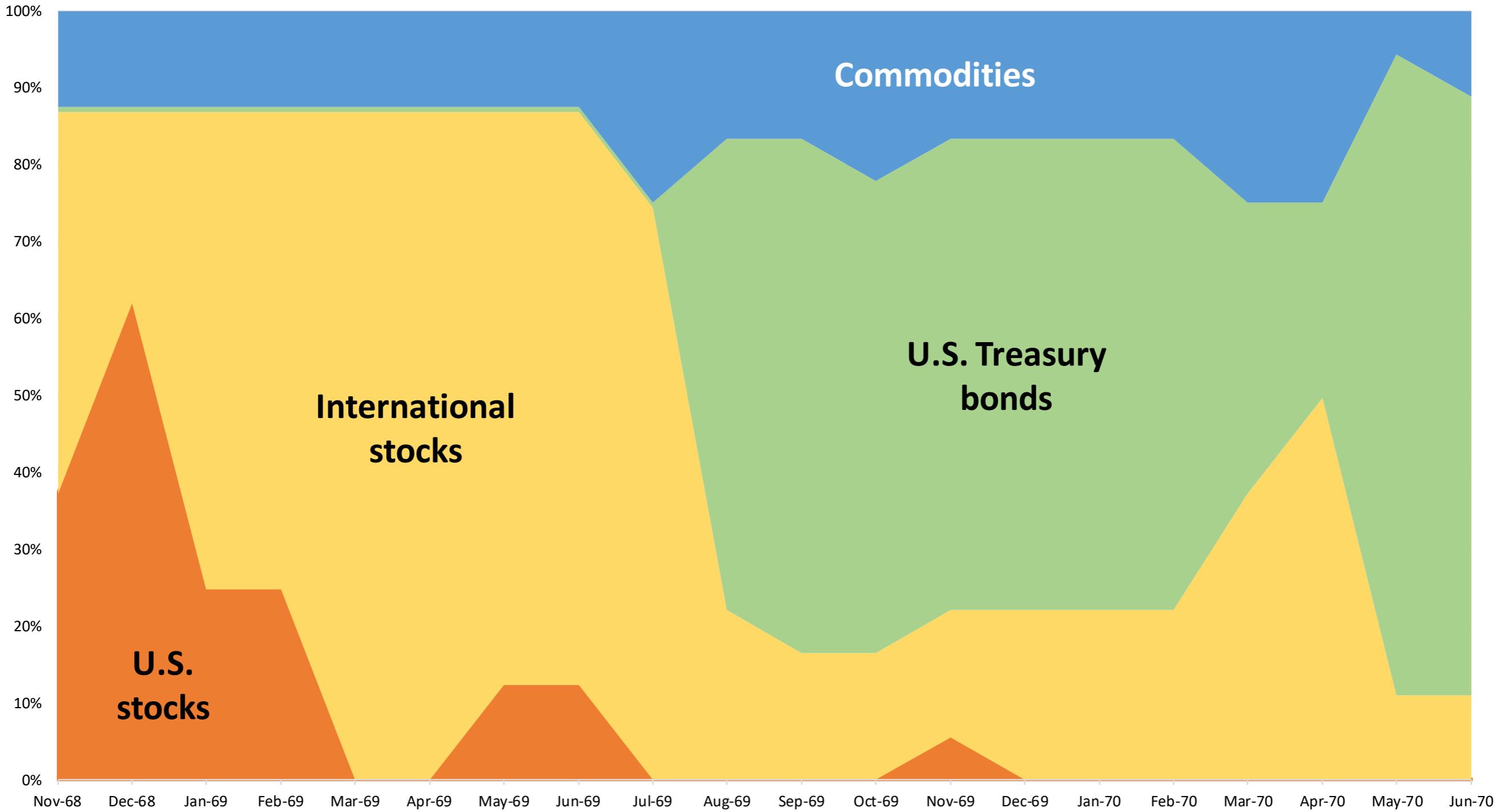








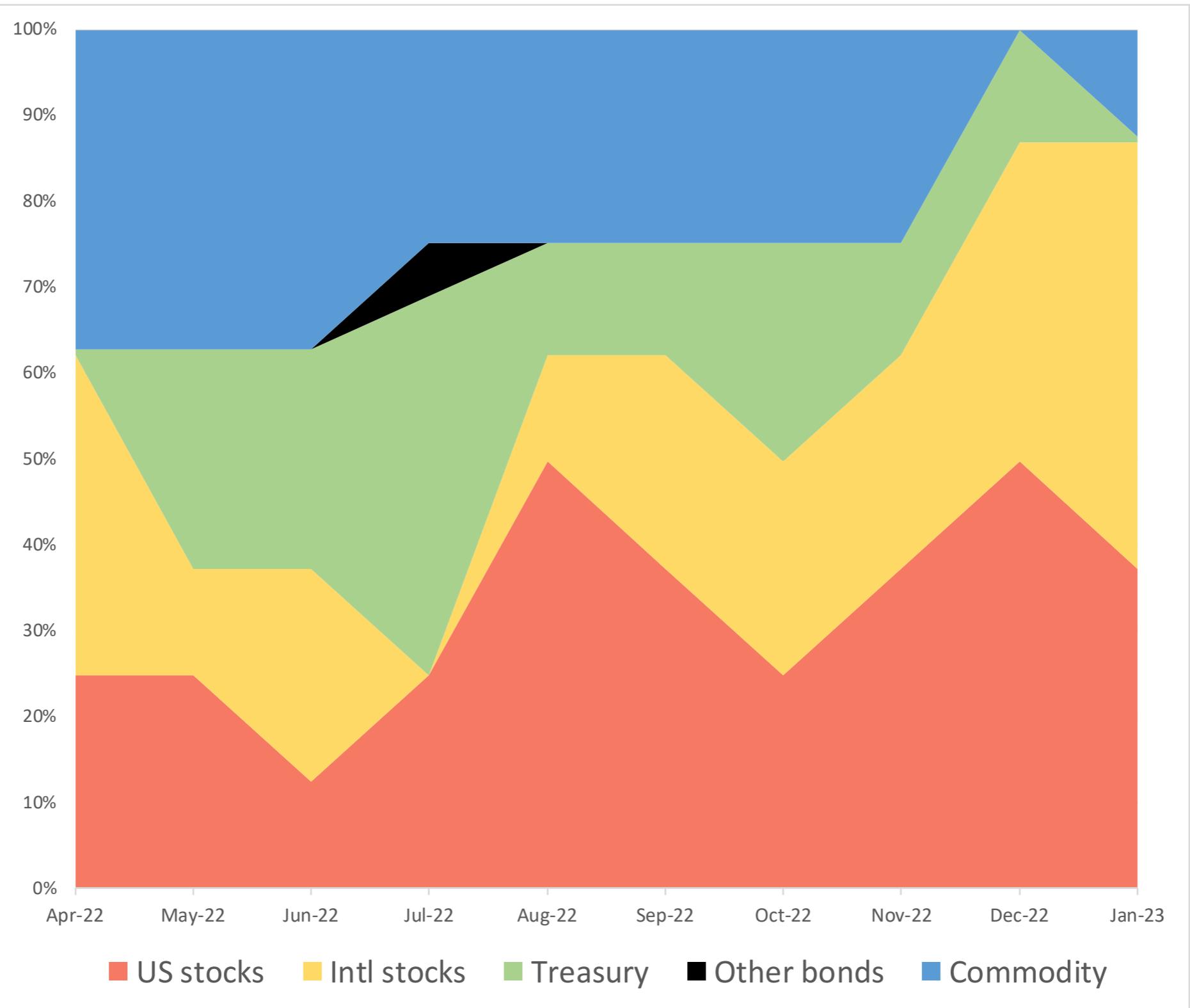




| In or out | Ticker | Asset type | Trending/momentum score |
|-----------|--------|---------------------------------------|-------------------------|
| ✓ | XLF | Finance | 4.30 |
| ✓ | XLI | Industrial | 6.87 |
| ✗ | XLU | Utility | 1.17 |
| ✗ | XLV | Health care | 3.06 |
| ✗ | XLK | Technology | -5.74 |
| ✗ | VNQ | Real estate | -7.02 |
| ✓ | XLE | Energy | 10.64 |
| ✓ | MCHI | China | 9.73 |
| ✗ | EWZ | Brazil | 0.28 |
| ✗ | EWJ | Japan | 0.27 |
| ✓ | EWG | Germany | 10.90 |
| ✗ | EWY | South Korea | 2.47 |
| ✗ | EWT | Taiwan | -2.11 |
| ✓ | EWU | United Kingdom | 5.85 |
| ✗ | EWC | Canada | -4.35 |
| ✗ | INDA | India | -0.34 |
| ✓ | EWA | Australia | 3.45 |
| ✗ | SHV | Ultra short term Treasuries | 0.88 |
| ✗ | TLT | Long term Treasuries | -6.19 |
| ✗ | IEF | 7-10 year Treasuries | -1.86 |
| ✗ | IEI | 3-7 year Treasuries | -0.75 |
| ✗ | ZROZ | Ultra long term Treasuries | -10.61 |
| ✗ | TIP | Inflation protected Treasuries | -3.13 |
| ✗ | VCIT | Intermediate term IG corporate bonds | 0.05 |
| ✗ | HYG | High yield bonds | 1.48 |
| ✓ | EMLC | Local currency emerging country bonds | 3.80 |
| ✓ | GDX | Gold mining company stocks | 6.16 |
| ✓ | SLV | Silver | 7.13 |
| ✗ | GLD | Gold | 3.11 |
| ✗ | PALL | Palladium | -18.25 |
| ✓ | PPLT | Platinum | 9.75 |
| ✗ | GLTR | Diversified precious metals | 1.58 |
| ✗ | PDBC | Ultra diversified commodities | -7.15 |
| ✗ | DBA | Agricultural commodities | -6.34 |
| ✗ | DBO | Oil | -13.72 |

| Date | Optimistic, neutral, or pessimistic | Portfolio's optimism/pessimism score |
|------------|--|--------------------------------------|
| 4/10/2022 |  | 79.6 |
| 5/10/2022 |  | 60.7 |
| 6/10/2022 |  | 61.3 |
| 7/10/2022 |  | 37.7 |
| 8/10/2022 |  | 60.2 |
| 9/10/2022 |  | 67.5 |
| 10/10/2022 |  | 61.3 |
| 11/10/2022 |  | 63.4 |
| 12/10/2022 |  | 63.4 |
| 1/9/2023 |  | 85.1 |

Scores range from 0.0 to 100.0 (most pessimistic to most optimistic)



| | | |
|---------------|--|-------|
| XLF | | 12.41 |
| XLI | | 12.41 |
| XLE | | 12.41 |
| MCHI | | 12.41 |
| EWG | | 12.41 |
| EWU | | 12.41 |
| EWA | | 12.41 |
| SLV | | 12.41 |
| JSTODIAL_CASH | | 0.72 |

Objections

It's based on predictions or forecasts which could be wrong

- **NO** it is not
- It is never based on any forecasts of the future
- Instead, it relies on an extremely simple look-back rule
- One that any high-school graduate could replicate
- Success relies on the observation that all markets trend . . . have momentum
 - Winners repeat
 - Losers repeat
- Often . . . the most successful investment strategies are the simplest

- **NO . . .** I did not
- **It is based on an extremely simple rule**
 - Just select the 8 asset classes that trended the most strongly over the last 11 months
 - That's it
- **Yes . . . cash is weighted as based on the investment time horizon, but not its selection**
 - And those weightings never vary over time
 - It's just like when you build a passive index portfolio yourself

You played with the returns and . . . maybe made them up

- **NO** . . . I did not
- The returns were calculated by Global Financial Data, Inc.
- And not by me

I have to see independent third party verification

- OK
- Here are two fully independent verifications
- Both of them are extremely heavily peer reviewed
- And got published after having passed the highest possible bars for integrity and rigor

The Journal of Portfolio Management

VOLUME 44, NUMBER 1

www.ijpm.com

FALL 2017

A Century of Evidence on Trend-Following Investing

BRIAN HURST, YAO HUA OOI, AND LASSE HEJE PEDERSEN

THE JOURNAL OF

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**PORTFOLIO
MANAGEMENT
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THEORY & PRACTICE FOR FUND MANAGERS

August 2022 Volume 31 Number 5

By With Intelligence

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WINNERS REPEAT,
LOSERS REPEAT

ROB BROWN

Winners Repeat, Losers Repeat

Rob Brown

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KEY FINDINGS

- The TAA portfolio earned an inflation-adjusted 10.8% over the aggregate period (102.1 years), whereas a comparable passive index earned a lesser 6.7% (one with a similar standard deviation, a 75/25 global stock/bond mix).
- TAA's performance advantage resulted even after subtracting unusually high transaction costs from the TAA portfolio, while assuming that the comparable passive index could rebalance each month cost-free.
- The TAA portfolio's greater relative success in achieving the stated investment objective did not diminish with the passage of time. If anything, it may have improved during the most recent period (14.3% of the cases examined drawn from the data spanning 1919-2021).

ABSTRACT

I present a tactical asset allocation proof-of-concept portfolio. It is intended to harvest the non-IID statistical attributes of stocks, bonds, commodities, and currencies, both domestic and international. It has as its objective to benefit from markets' propensity to trend from month to month and during both bull and bear market environments. The proof-of-concept portfolio relies on a simple quantitative rule that allows for rigorous evaluation over the past 102.1 years. The results presented herein suggest that Tactical Asset Allocation (TAA) is an approach worthy of consideration. Moreover, the article suggests that a necessary condition for TAA success lies in correctly specifying its rather differentiated investment objective—one that may be unrelated to comparisons with popular fixed-weight index benchmarks. Such fixed-weight benchmarks have correlations with TAA strategies that are so low as to make commonly used statistical comparisons irrelevant (i.e., not statistically significant). This article attempts to correct our industry's mischaracterization and overpromising of all things TAA by focusing on the time required for success.

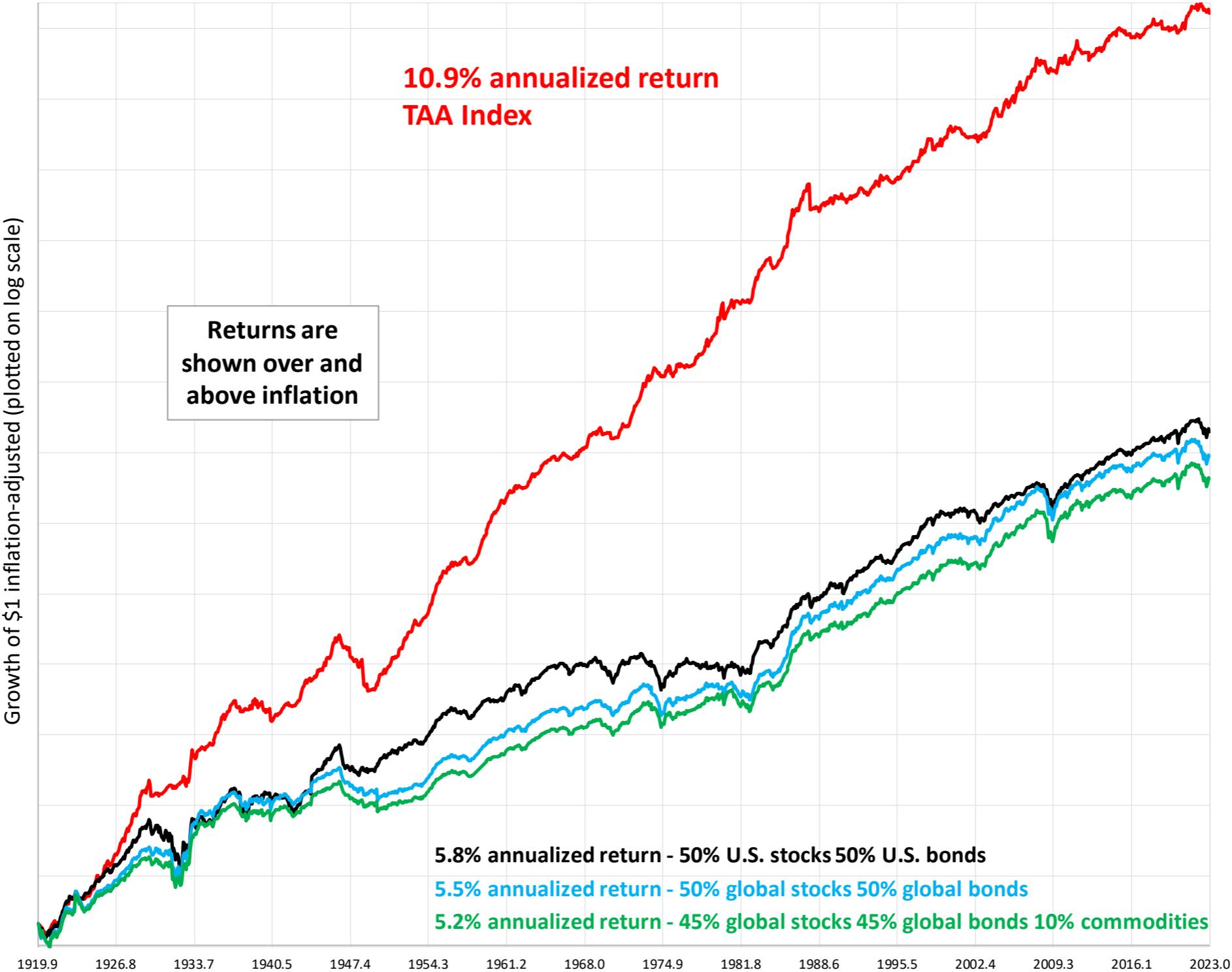
Tactical Asset Allocation (TAA) earned a poor reputation over the past 13 years (since 3/6/2009, the recent bear market low). My objective is to mitigate a portion of the retail industry's TAA skepticism. This is an interesting topic, given the size of the retail industry, TAA's prominence within it, and forecasted future growth in TAA's market share. Direct and indirect, the retail industry is large and growing, currently estimated to be more than \$16 trillion.¹ TAA first came into existence back in the 1980s and has grown consistently ever since, with occasional faster growth

¹Sources: ICMA (International Capital Market Association) analysis using Bloomberg Data (August 2020), Ned Davis Research, and The Visual Capitalist (<https://www.visualcapitalist.com>).

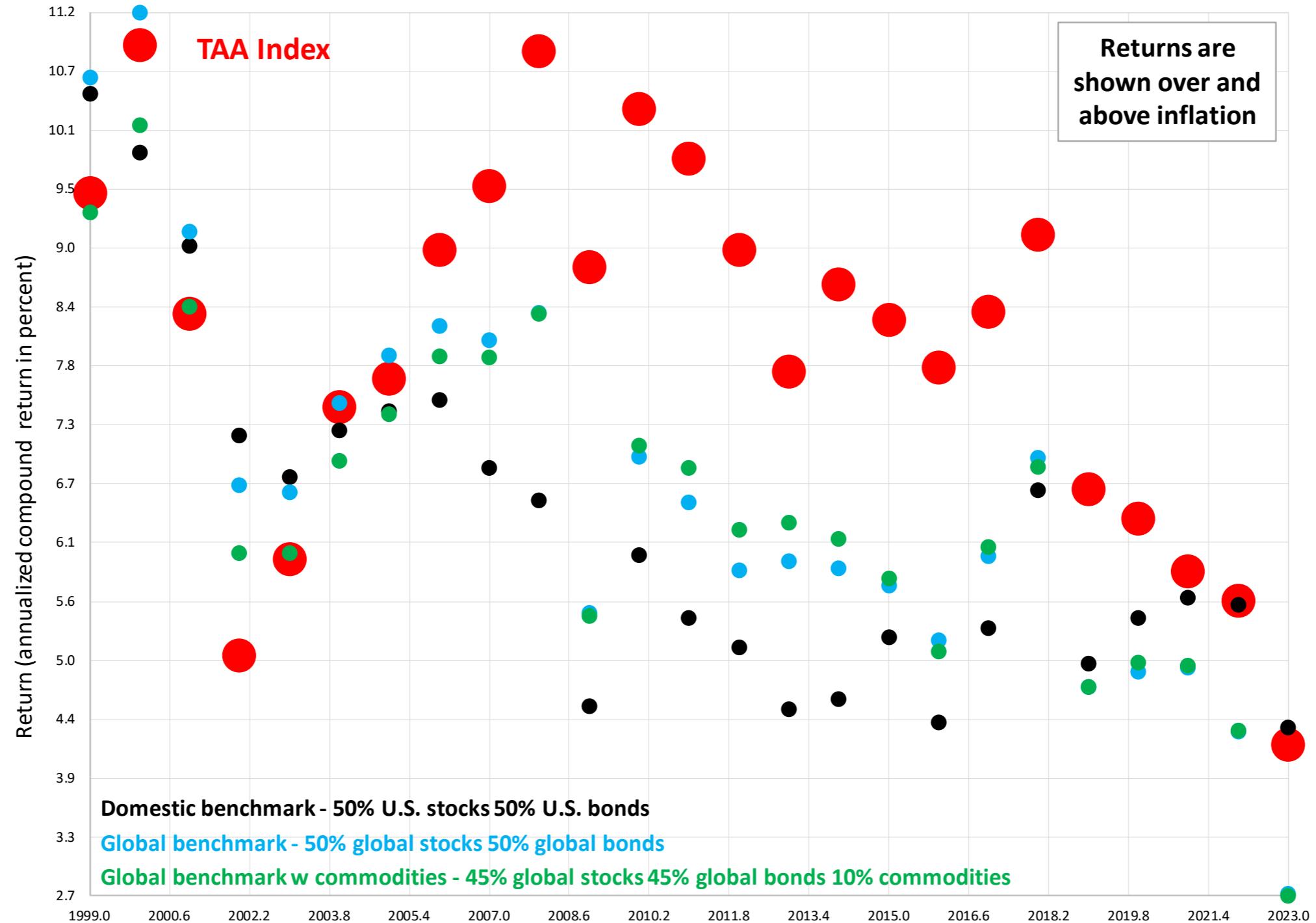
It is only useful for short investment periods

- NO that is just plan wrong
- Such a conclusion is not supported by the data
- The simple model presented herein adopts an investment time horizon of 14.9 years

Large and consistent outperformance over the long-run



Outperformance over almost all 14.9-year investment periods



My favorite Julex tactical asset allocation model

- Dynamic series
- Can go 100% back to “cash”
- International and U.S. are rebalanced at separate points, once each month

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How to access international - But without getting burned

Friday

February 10th

11:00 a.m. EASTERN

All data and statistics were provided by Global Financial Data, Inc. and NDR, Inc. (unless otherwise indicated in the exhibit)

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One of the limitations of hypothetical performance results is that they are generally prepared with the benefit of hindsight. In addition, hypothetical trading does not involve financial risk, and no hypothetical trading record can completely account for the impact of financial risk in actual trading. For example, the ability to withstand losses or adhere to a particular trading program in spite of trading losses are material points which can also adversely affect actual trading results. There are numerous other factors related to the markets in general or to the implementation of any specific trading program which cannot be fully accounted for in the presentation of hypothetical performance results and all of which can adversely affect actual trading results.

The composition of a benchmark index may not reflect the manner in which a Julex portfolio is constructed in relation to expected or achieved returns, investment holdings, portfolio guidelines, restrictions, sectors, correlations, concentrations, volatility, or tracking error targets, all of which are subject to change over time.

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