



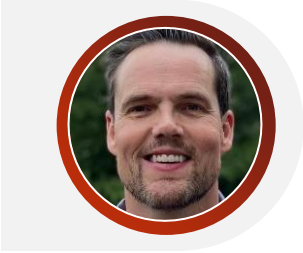
EVENT HORIZON
PARTNERS

**A Data Science and Engineering Company:
Quantitative Hedge Fund**



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Who Are We?



Roger Parkinson

Co-Founder | Technology

Roger combines top-down vision, bottoms-up execution and relentless drive to create innovations that leverage the technical paradise that is modern decision science and engineering.

Having graduated in Information Management, Roger has spent 25 years implementing leading-edge solutions for turning data into decision at scale at GE Capital, Bank of America, Wells Fargo and Event Horizon Partners.

Prior to university, Roger spent time in US Special Forces and Military Intelligence.

The technical innovation he is most proud of is crafting a scalable and fully automated quant hedge fund OS. He loves upgrading this Machine so that it can advance to the next level of what it needs to be. Being aware of where we are at in history as a civilization and then, being able to industrialize with today's tools is a delight and a privilege.



Brad Parkinson

Co-Founder | Operations

Brad is an insatiable iterator and has been in the financial services industry for 21 years at Wells Fargo and JP Morgan in their commercial banking and technology focused spaces.

Leading our operations and risk controls, Brad's innovative drive focuses our company on system stability, and adaptability. His algorithms are not just reacting to market trends but predicting them, ensuring our trading strategies and operations remain innovative, and keeping our portfolio stable and risk balanced.

What Are We Doing?

What We Do

We use Machine Learning and Artificial Intelligence to construct profitable and fully automated trading models.

What We Are Looking For

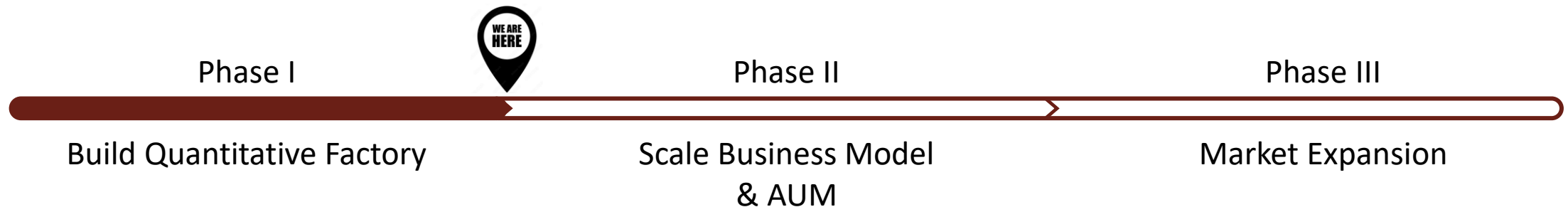
Increase AUM to take advantage of capability we have engineered.

Objective

- Maximize Alpha
- Optimize Beta
- Minimize Volatility

Strategy

- 100% Model Driven
- Minimize correlation
- Maximize # of trading systems
- Maximize instruments traded



Case Study | Renaissance Technologies

Medallion Fund | Average Return: 66% | Max Return : 152% | Min Return: 32%



Jim Simons | Founder

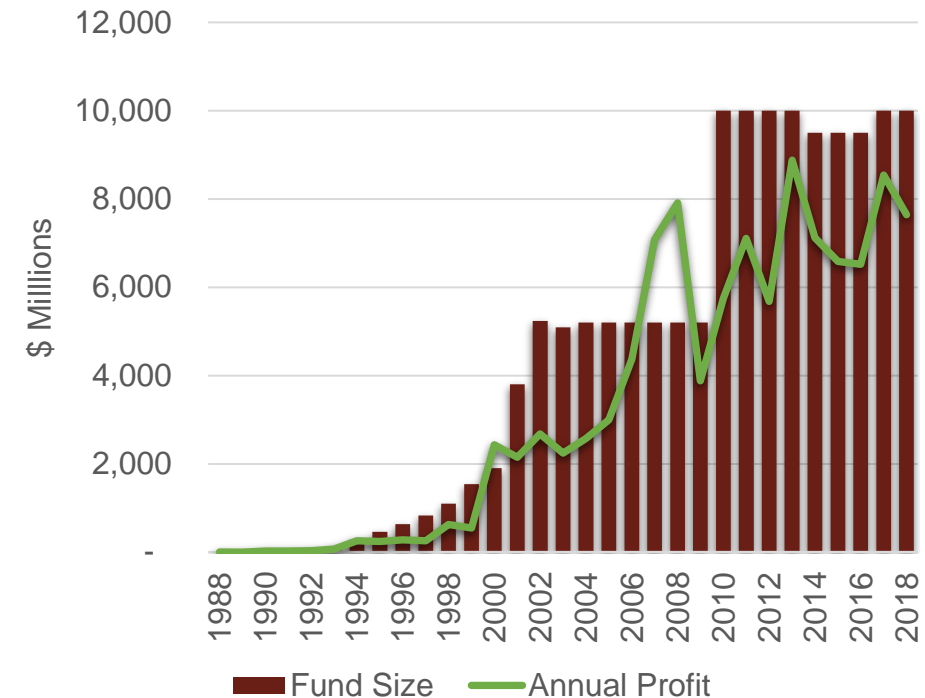
-- We search through historical data looking for anomalous patterns that we would not expect to occur at random. Over time, more subtle anomalies in the data have been discovered. These are not dominant enough to guarantee huge profits alone but are significant when combined.



-- We are 100% model driven. The key to our success is our ability to keep the models improving. When the models are working well, they are very good, but they are not always working well. We spend a tremendous amount of effort trying to understand when they're likely to work and when they're not

-- The current system used is "extraordinarily elaborate," relying on machine learning rather than complex equations.

Medallion Fund Phases



Result: Renaissance Beat the Market with Applied Data Science

Phase I | Build Quantitative Factory

Bottoms-Up Innovation



-- Monitoring --
Risk | Execution | Drift

-- Selection --
Model | Portfolio

Applied Statistics

-- Exploration Pipeline --

Machine Learning

Optimization

Analytics

Scientific Approach

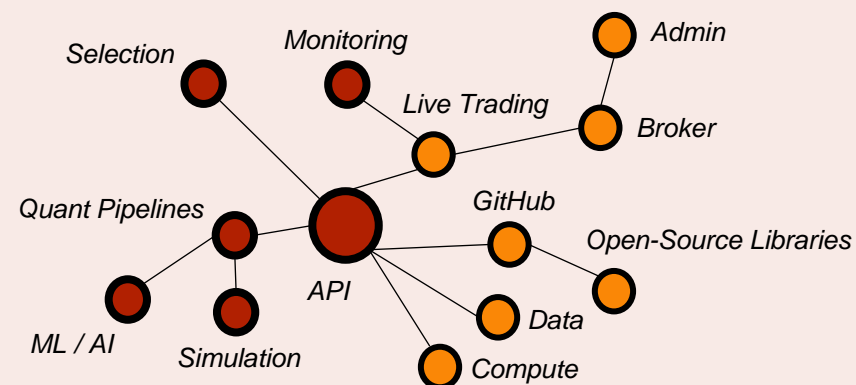
Data Science and Engineering

The factory is the machine that builds the machine.

- Elon Musk

Differentiators

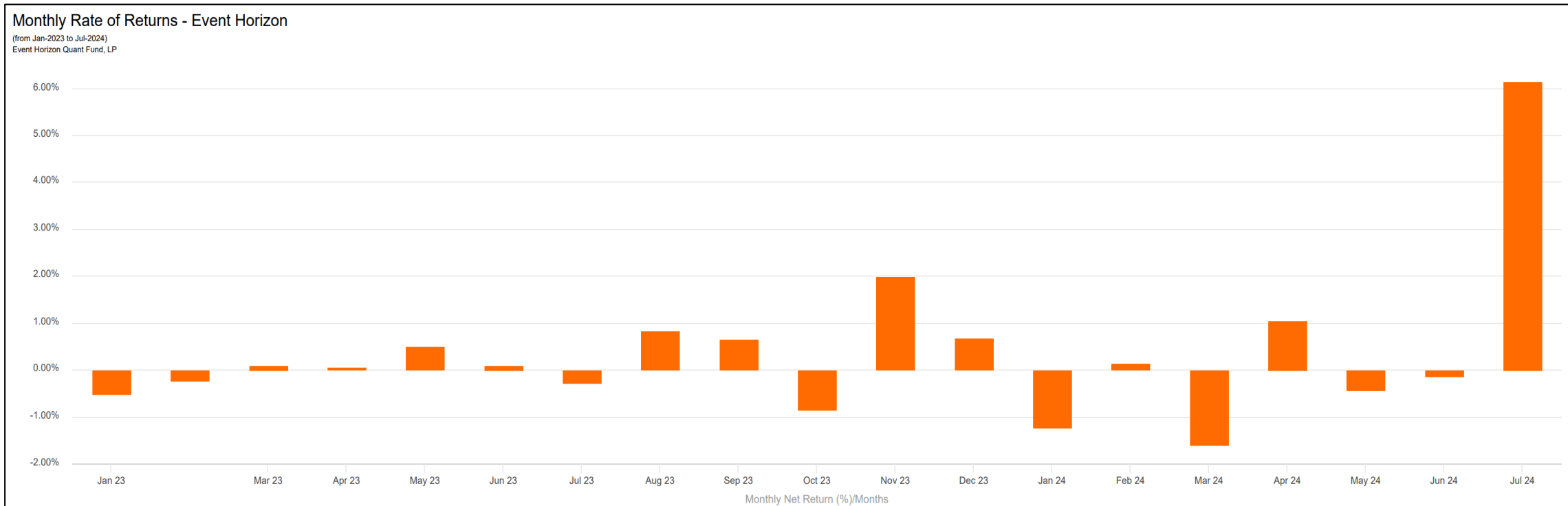
Expected



Quant Factory Components

Result: Quantitative alpha factory that turns market data into profitable trades at industrialized scale

Phase I | Traction | Fund Results



Perhaps the single most important virtue in ML Engineering is persistence. The ML Engineering process is one of repeatedly checking & understanding every detail of the system, until it finally goes through a **phase transition** from “not working at all” to “**working shockingly well**”.

-- **Greg Brockman**
President & Co-Founder @OpenAI

Demo if Live



PHASE II | Scale AUM

Target: All Liquid CBOT, NYMX, EUREX Based Futures | Grow AUM up to \$1 Billion

INDICES							
DJIA 37748.00 H 38031.00 -179.00 L 37651.00 (-0.47%)	S&P 500 4811.25 H 4836.50 -4.25 L 4791.50 (-0.09%)	NASDAQ 100 16955.25 H 17042.50 -11.00 L 16866.50 (-0.06%)	RUSSELL 2000 1962.50 H 2003.30 -6.60 L 1957.30 (-0.34%)	NIKKEI 225 35575.00 H 35760.00 +315.00 L 35220.00 (+0.89%)	EURO STOXX 50 4508.00 H 4518.00 +42.00 L 4482.00 (+0.94%)	DAX 16842.00 H 16880.00 +170.00 L 16733.00 (+1.02%)	VIX 13.35 H 13.45 +0.30 L 12.95 (+2.29%)
ENERGY				BONDS			
CRUDE OIL WTI 72.76 H 75.25 +0.74 L 72.36 (+1.03%)	CRUDE OIL BRENT 78.32 H 80.75 +0.91 L 77.96 (+1.18%)	GASOLINE RBOB 2.1215 H 2.1977 +0.0072 L 2.1155 (+0.34%)	HEATING OIL 2.6756 H 2.7863 +0.0018 L 2.6663 (+0.07%)	NATURAL GAS 3.3310 H 3.3770 +0.2340 L 3.1020 (+7.56%)	ETHANOL 1.5800 H 1.5800 +0.0000 L 1.5800 (+0.00%)	30 YEAR BOND 123.13 H 123.41 +0.41 L 122.28 (+0.33%)	10 YEAR NOTE 112.63 H 112.83 +0.28 L 112.09 (+0.25%)
SOFTS							
COCOA 4315.00 H 4358.00 +41.00 L 4285.00 (+0.96%)	COTTON 81.18 H 82.22 -0.18 L 81.06 (-0.22%)	ORANGE JUICE 304.30 H 309.90 -1.30 L 302.05 (-0.43%)	COFFEE 180.05 H 186.85 -4.00 L 179.00 (-2.17%)	LUMBER 559.00 H 560.00 +1.00 L 550.50 (+0.18%)	SUGAR 21.63 H 21.95 -0.13 L 21.56 (-0.60%)	5 YEAR NOTE 108.77 H 108.91 +0.28 L 108.34 (+0.26%)	2 YEAR NOTE 103.11 H 103.16 +0.20 L 102.83 (+0.20%)
METALS				MEATS			
GOLD 2053.60 H 2067.30 +34.40 L 2033.10 (+1.70%)	SILVER 23.36 H 23.72 +0.66 L 22.92 (+2.88%)	PLATINUM 916.60 H 946.60 -3.00 L 914.00 (-0.33%)	COPPER 3.7350 H 3.8190 -0.0415 L 3.7350 (-1.10%)	PALLADIUM 977.00 H 1006.00 -6.00 L 972.50 (-0.61%)	LIVE CATTLE 171.43 H 172.63 -0.37 L 171.05 (-0.22%)	FEEDER CATTLE 227.45 H 229.60 +0.05 L 225.68 (+0.02%)	LEAN HOGS 71.93 H 72.60 -0.67 L 71.28 (-0.93%)
GRAINS							
SOYBEANS 1226.25 H 1246.75 -10.25 L 1203.00 (-0.83%)	SOYBEAN MEAL 362.80 H 364.80 +0.60 L 353.40 (+0.17%)	SOYBEAN OIL 48.44 H 49.65 -0.28 L 47.70 (-0.57%)	CORN 448.75 H 460.00 -9.00 L 441.00 (-1.97%)	WHEAT 597.00 H 611.75 -6.75 L 587.25 (-1.12%)	ROUGH RICE 17.71 H 17.71 +0.18 L 17.50 (+1.06%)	OATS 369.00 H 385.75 -14.50 L 368.00 (-3.78%)	CANOLA 618.00 H 618.00 -4.70 L 618.00 (-0.75%)
CURRENCIES							
USD 102.20 H 102.32 +0.17 L 101.82 (+0.17%)	EUR 1.0979 H 1.1016 -0.0032 L 1.0965 (-0.29%)	JPY 0.6970 H 0.6999 +0.0026 L 0.6940 (+0.38%)	GBP 1.2757 H 1.2791 -0.0011 L 1.2724 (-0.09%)	CAD 0.7466 H 0.7501 -0.0006 L 0.7463 (-0.08%)	CHF 1.1806 H 1.1861 -0.0005 L 1.1774 (-0.05%)	AUD 0.6699 H 0.6742 -0.0001 L 0.6691 (-0.02%)	NZD 0.6242 H 0.6279 +0.0006 L 0.6231 (+0.10%)

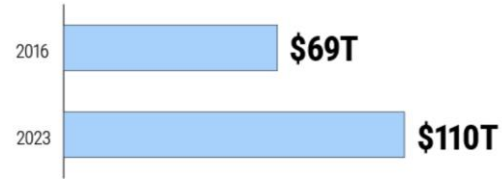
"If it's publicly traded, liquid, and amenable to modeling, we trade it."
-- Jim Simons

PHASE III | Expansion

Target: Grow AUM to 30 Billion + in Top 3 Markets



Total Market Value All Major Stock Exchanges

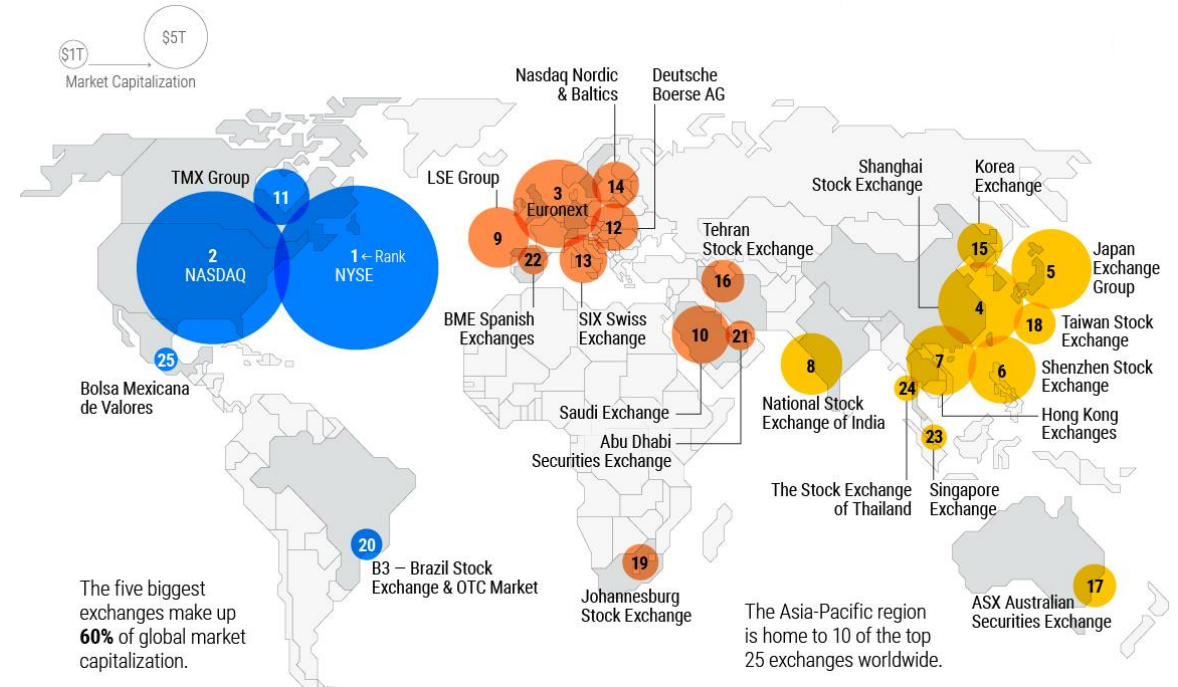


Data as of August 2023.
Source: World Federation of Exchanges

Market Share All Major Stock Exchanges



Global Rank	Stock Exchange	Country	Market Cap Aug 2023
1	NYSE	U.S.	\$25.0T
2	Nasdaq	U.S.	\$21.7T
3	Euronext	Netherlands	\$7.2T
4	Shanghai Stock Exchange	China	\$6.7T
5	Japan Exchange Group	Japan	\$5.9T
6	Shenzhen Stock Exchange	China	\$4.5T
7	Hong Kong Exchanges	Hong Kong	\$4.2T
8	National Stock Exchange of India	India	\$3.5T
9	LSE Group	UK	\$3.4T
10	Saudi Exchange	Saudi Arabia	\$3.1T





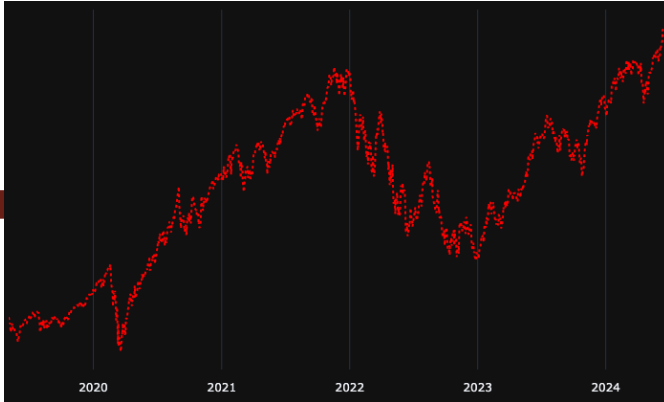
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Appendix

Phase I | Traction | How We Construct a Quant Fund

We're right 50.75% of the time. But we're 100% right 50.75% of the time. You can make billions that way. – Bob Mercer of Renaissance Technologies

Buy and Hold



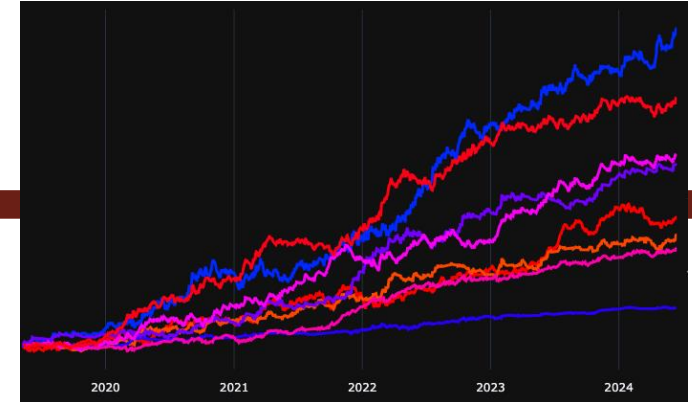
... With fifteen to twenty good, uncorrelated return streams, you can dramatically reduce your risks without reducing your expected returns.

-- Ray Dalio

... focus on **minimizing the volatility** of an entire portfolio ...

-- Jim Simons

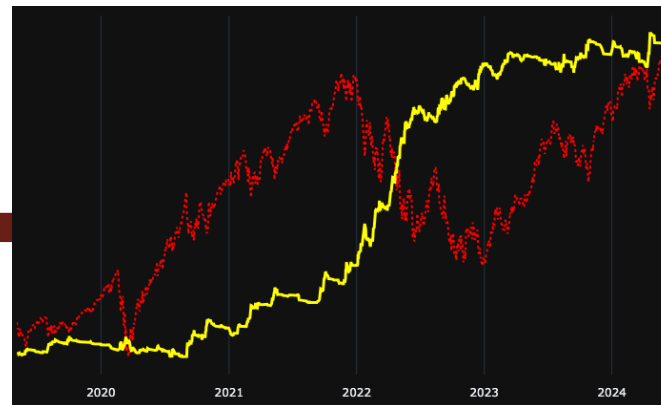
Individual Trading Models



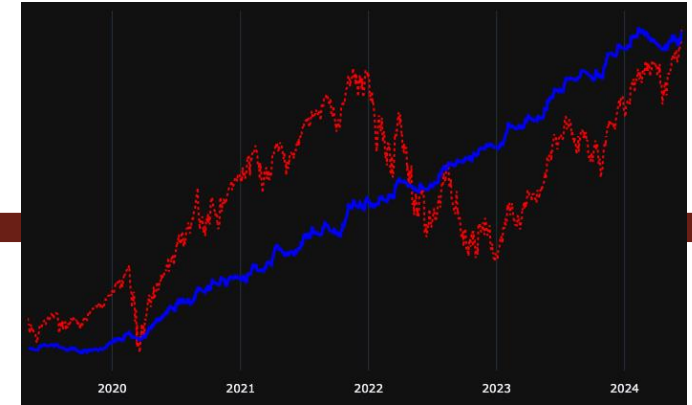
Buy and Hold vs All Trades



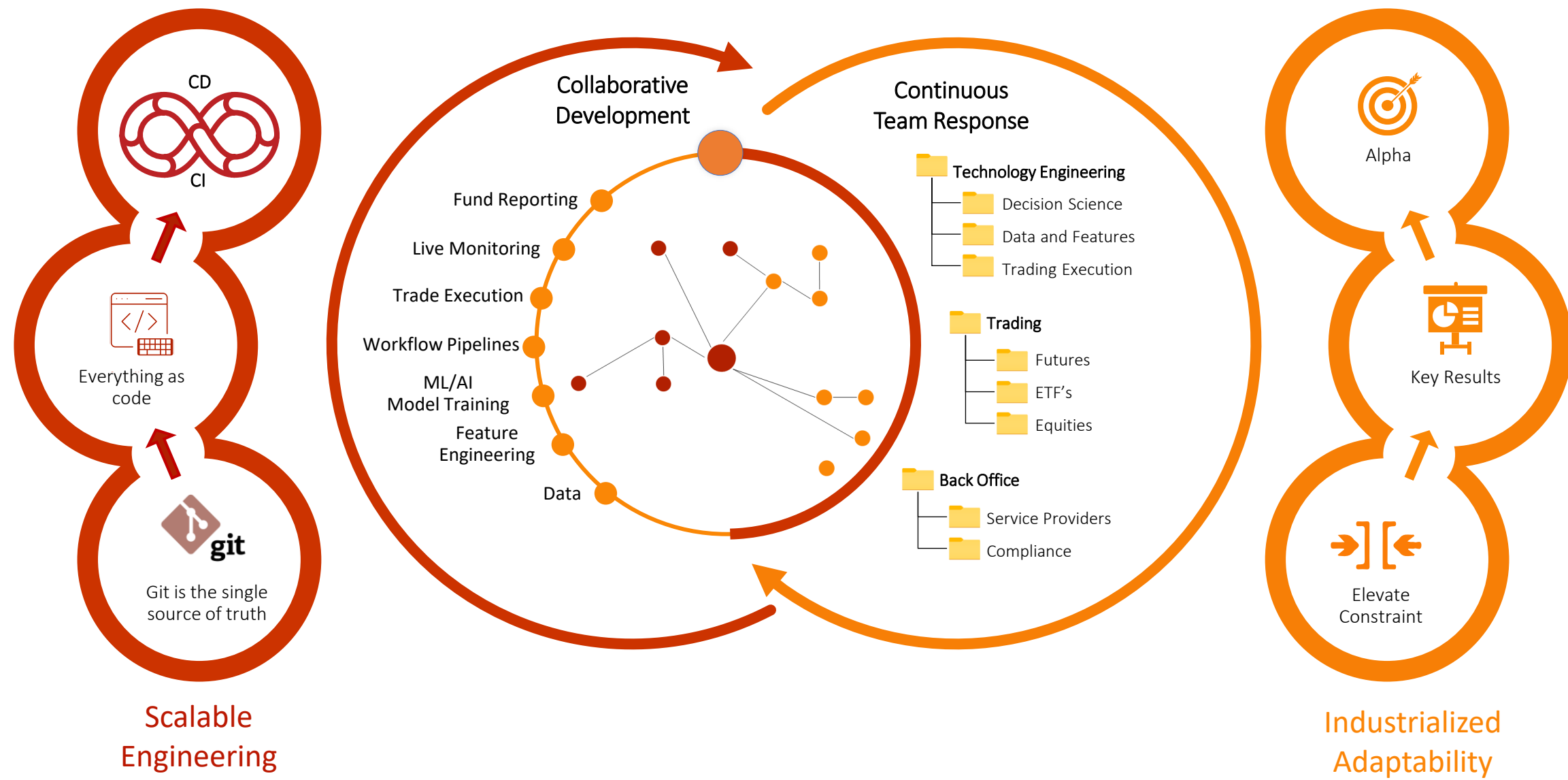
Buy and Hold vs Short Trades



Buy and Hold vs Long Trades



Event Horizon Partners Workflow



SERVICE PROVIDERS



Fund Administrator



NAV Fund Administration Group

Audit & Accounting



Richey May

Banking



Axos Bank

Broker



Interactive Brokers

Legal



Investment Law Group

Technology



[aws.amazon](https://aws.amazon.com)



[cloud.google](https://cloud.google.com)



github.com



[azure.microsoft](https://azure.microsoft.com)

Disclosure



Risk Disclosure: Futures and options trading contains substantial risk and is not for every investor. An investor could potentially lose all or more than the initial investment. Risk capital is money that can be lost without jeopardizing one's financial security or lifestyle. Only risk capital should be used for trading and only those with sufficient risk capital should consider trading. Past performance is not necessarily indicative of future results.

Hypothetical Performance Disclosure: Hypothetical performance results have many inherent limitations, some of which are described below. No representation is being made that any account will or is likely to achieve profits or losses similar to those shown; in fact, there are frequently sharp differences between hypothetical performance results and the actual results subsequently achieved by any particular trading program. 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 of actual trading. For example, the ability to withstand losses or to 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 preparation of hypothetical performance results and all which can adversely affect trading results.

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