Sector Rotation and Risk Management

Houston AAII Chapter Sat. Mar. 4, 2023

SectorSurfer
Change the Game

Sector Rotation and Risk Management

Houston AAII Chapter Sat. Nov. 19, 2022

Scott Juds

President & CEO SumGrowth Strategies

Chairman & CEO Merlyn.AI Corporation

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- This presentation is for educational purposes only and is not an offer to buy or sell securities.
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- Investing in securities is speculative. You may lose some or all of the money invested.
- Past results of any particular trading system are not a guarantee of future performance.

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Part 1 – Practical Stuff

- Introducing SectorSurfer
- Markets – No Place to Hide
- SectorSurfer Online Practical Demo
- StormGuard & Bear Market Strategies
- The Tactical Risk Mitigation Index
- The Dual Defense Strategies
- Hall of Fame, Publications, Videos
- Newsletter, Subscriptions

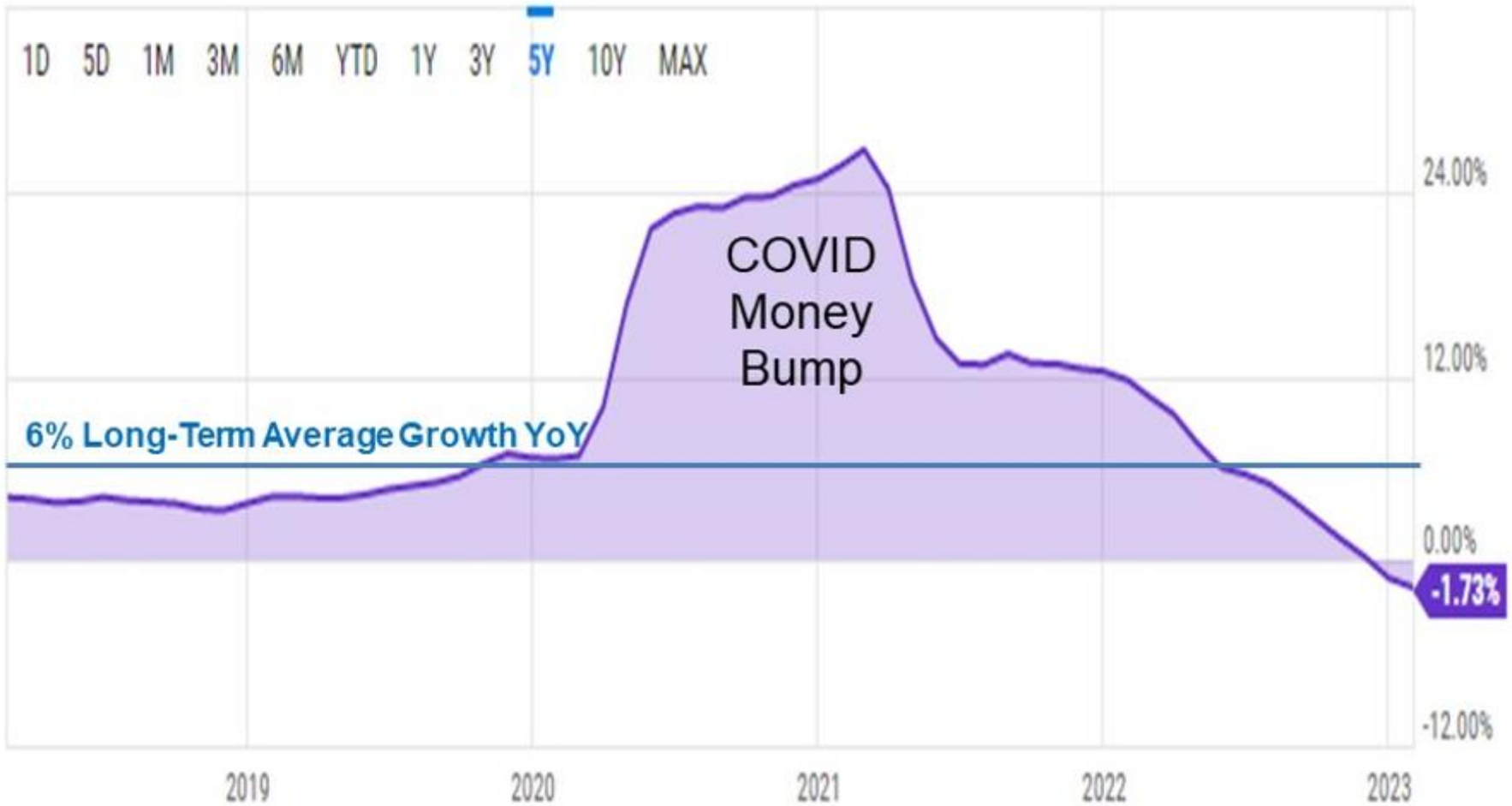
Take a Break Here

Part 2 – Technical Stuff

- MPT: Diversify & Rebalance
- Momentum Exists in Market Data
- Improving the Signal to Noise Ratio
- Bear Markets, StormGuard, SwanGuard
- Alpha Daily Brief Resources
- Hindsight Bias – Tuning and Selection
- Merlyn.AI's Genetic Algorithms
- Formal Indexes: What Lies Ahead?

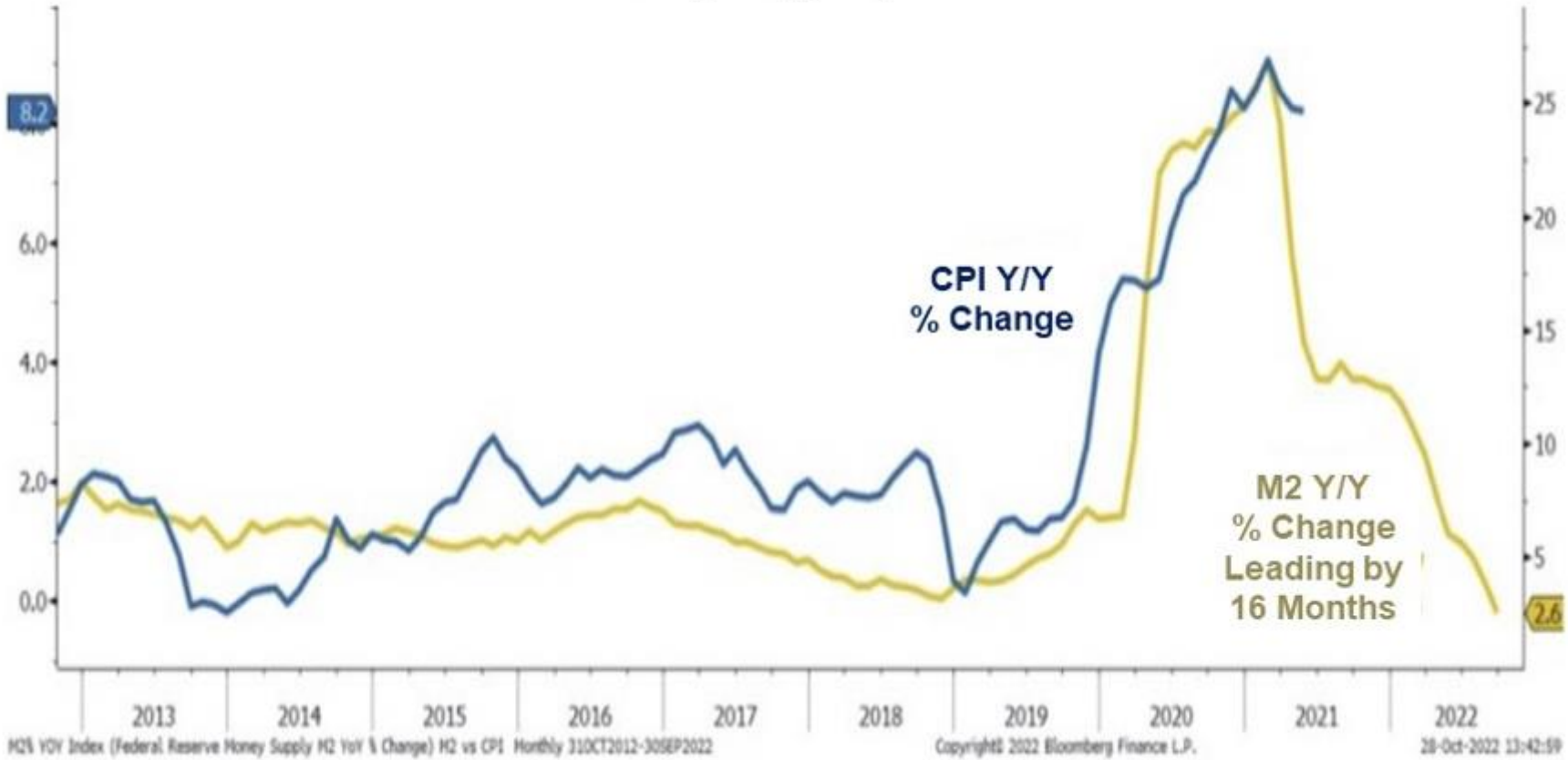
Indicators
Comparison
Feb 02, 1970 - Nov 01, 2022
1D 5D 1M 3M 6M YTD 1Y 2Y 5Y Max
Interval 1M
Line
Draw
^GSPC 3756.07
yahoo!finance
S&P500
Deja vu?
Landing?
4032.33
4,500.00
3,500.00
3,000.00
2,500.00
2,000.00
1,500.00
1,000.00
500.00
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

U.S. M2 Money Supply YoY Change %



M2 Money Supply vs. CPI

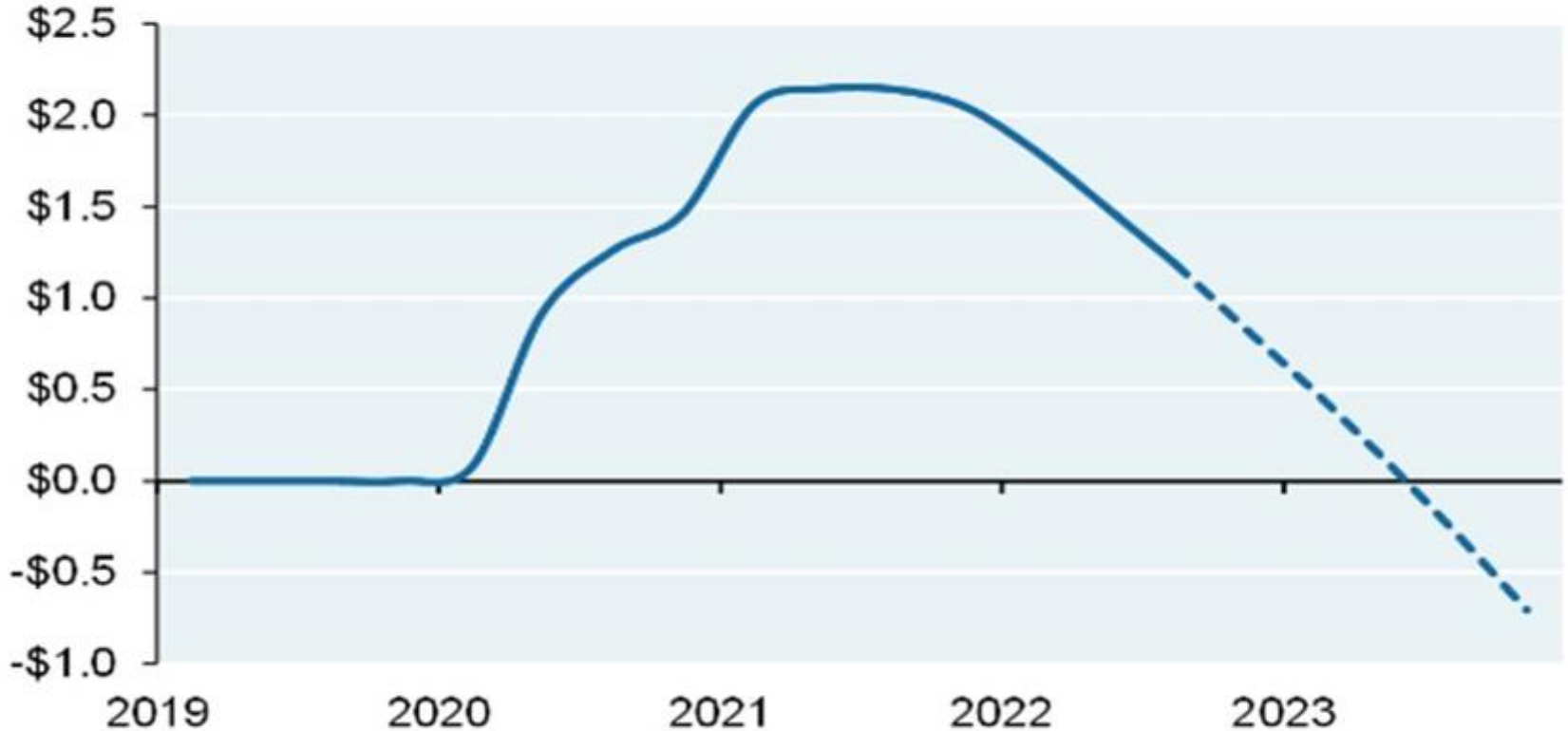
Y/Y % Change Lagged by 16 Months



Source: Bloomberg, Morgan Stanley Research

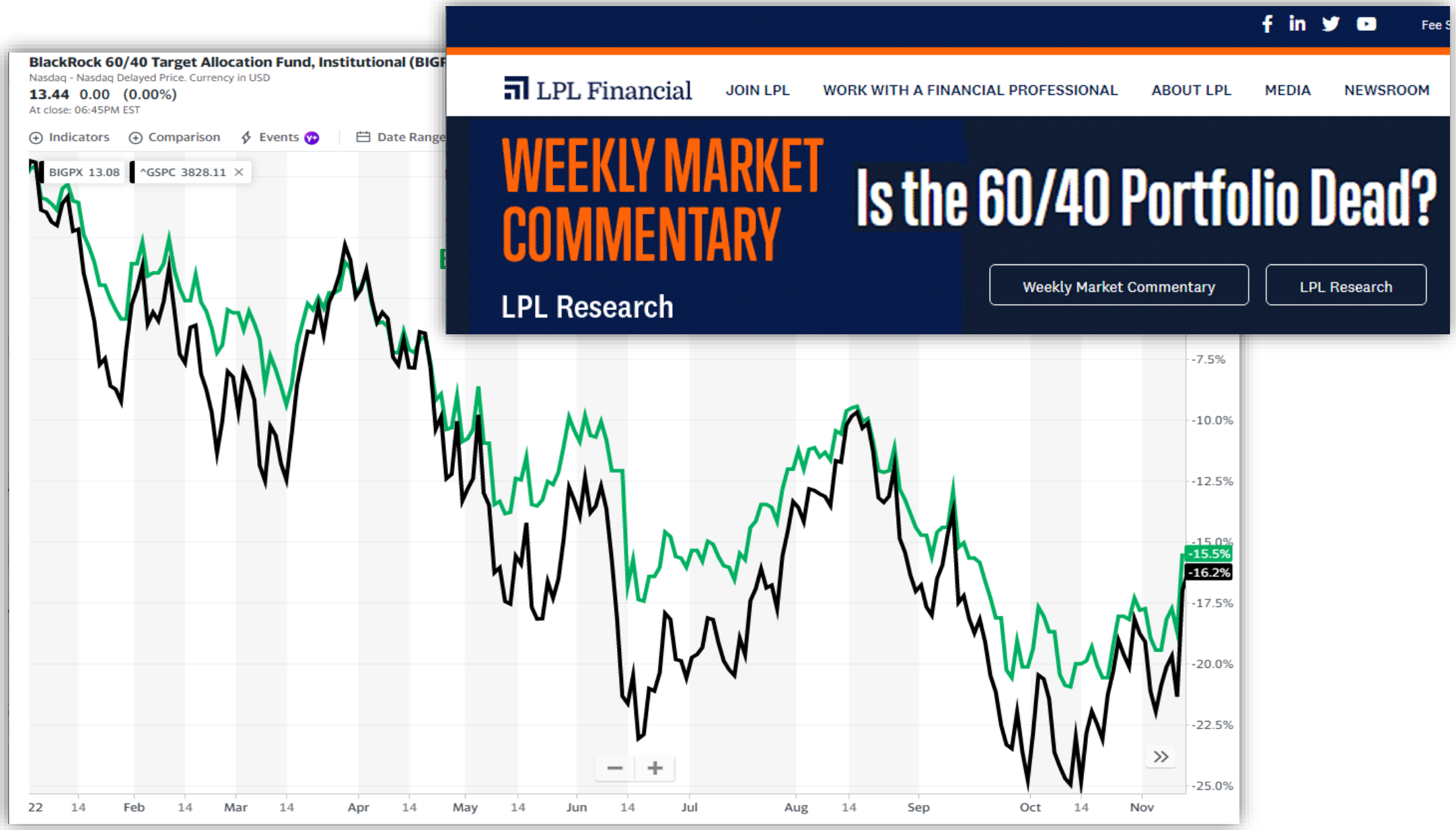
Accumulated “Extra” Savings

US$, trillions

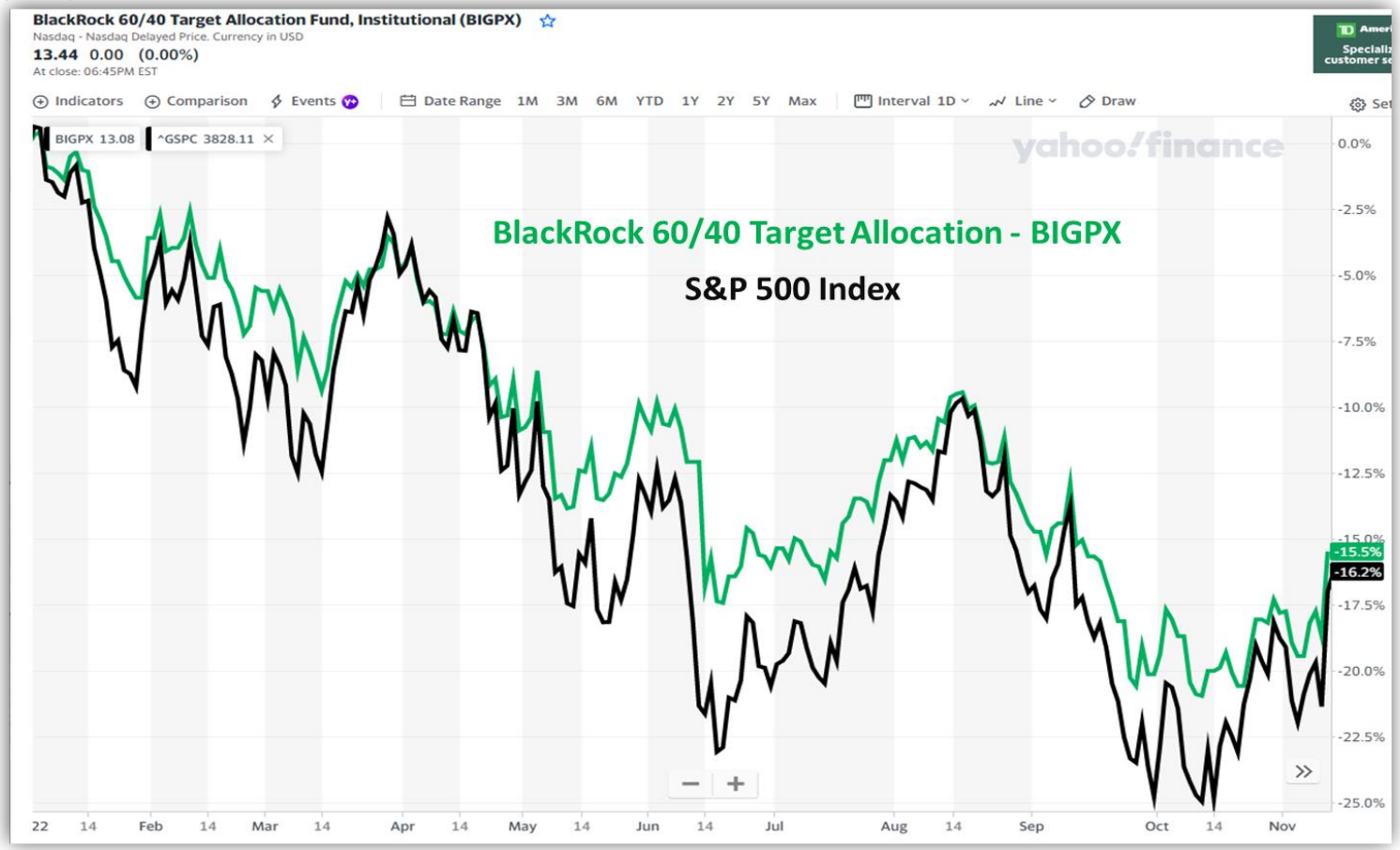


Source: BEA, J.P. Morgan Equity Strategy. Q3 2022. Dotted lines indicate projections.

Standard 60/40 Portfolio – YTD 2020



Hey!
60/40 Isn't Working!
Will Someone Please Fix It?



Dinner Plan?

Select 10 Random Things

Chop and Cook Them

60/40 Fix Plan

Invest Mainstream

But

60/40 Fix Plan

Tactical Risk Mitigation Index - Momentum Models					
Fund Category		TRM-1	TRM-2	TRM-3	TRM-4
1	60/40 Backbone	T6040	T6040	T6040	T6040
2	Commodities	DBC	DBP	DBC	GLD
3	Treasuries Short-Term	SPTS	SHY	SHV	SCHO
4	Treasuries Int-Term	SCHR	IEF	IEI	TLH
5	Treasuries Inflation-Prot	TIPX	SPIP	TIPZ	TIP
6	Ultra Short Term	ICSH	UUP	PULS	UUP
7	Bonds Short-Term	VCSH	BSV	IGSB	SPSB
8	Bonds Interm-Term	BIV	AGG	SCHZ	BND
9	Bonds Long-Term	BLV	SPLB	IGLB	VCLT
10	Corperate Bonds	VCIT	LQD	CORP	SPIB
11	High-Yeild Corp. Bonds	JNK	ANGL	FALN	HYG
12	Municipal Bonds	BAB	HYMB	MUB	HYD
Bear Market Strategy		BMS-W	BMS-M	BMS-Y	BMS-M

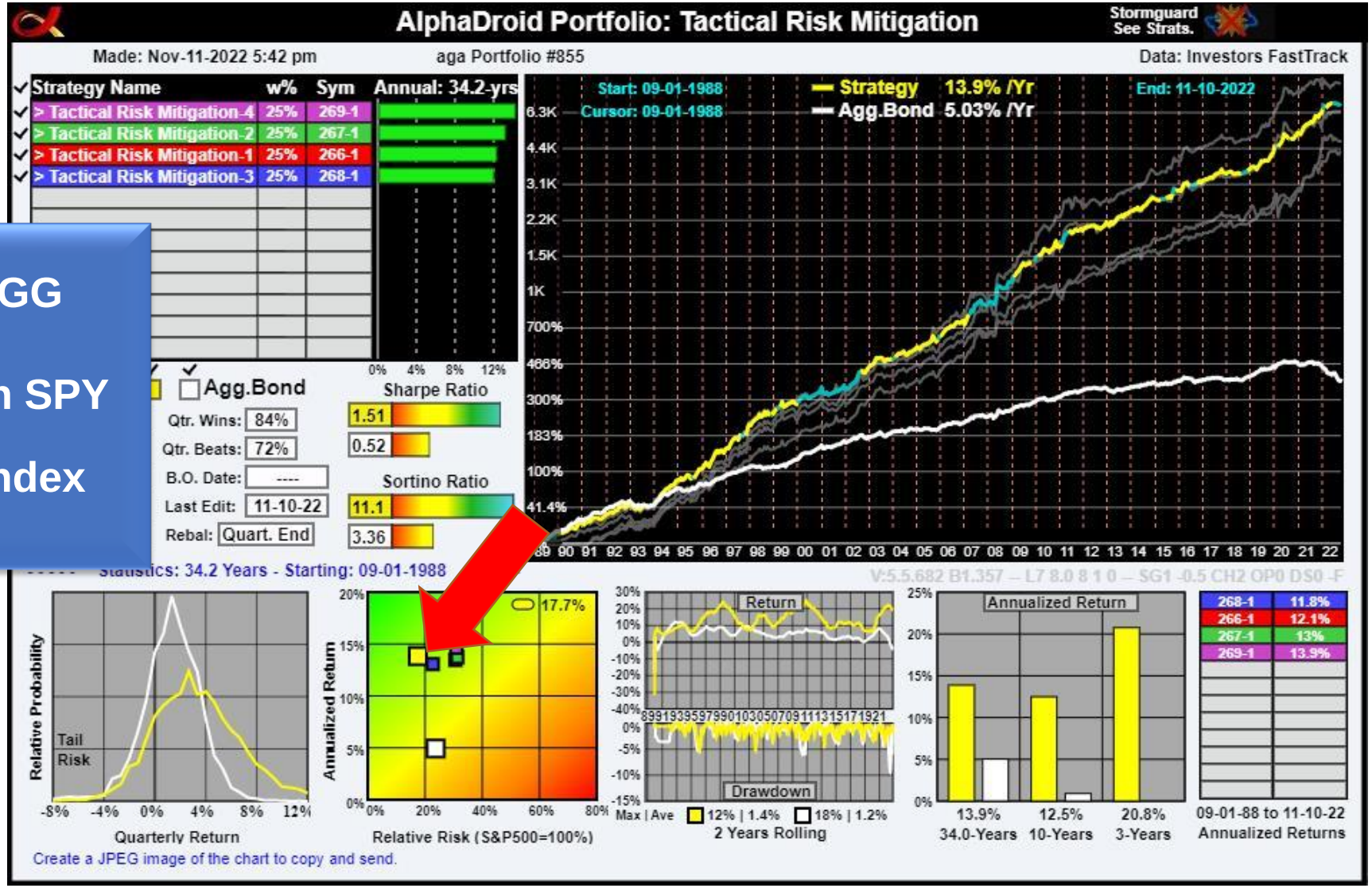
MPT
Body Armor: 40% Bonds

Momentum
Guard Dogs at Front Door

StormGuard
Guard Dogs at Back Door

Tactical Risk Mitigation Index

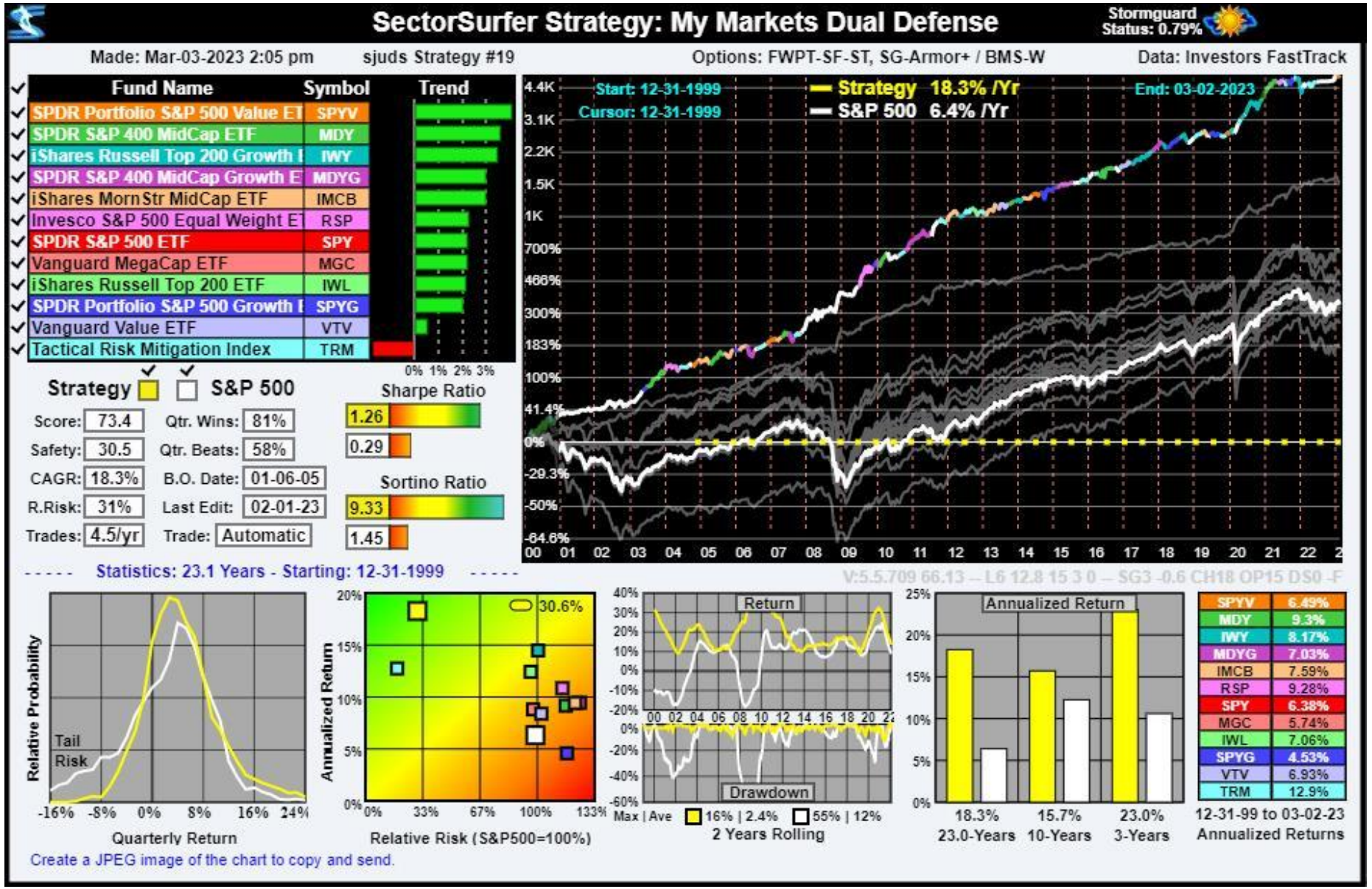
- Lower Risk than AGG
- Higher Return than SPY
- Best All Weather Index



Dual Defence TRM as Backstop

Name: Markets Dual Defense			SPY	MDY	SPYG	MDYG	SPYV	IWY	SELL: -New-
Score: 83	Safety: 31	MDD: 15%	IWL	MGC	VTV	IMCB	RSP	TRM	BUY: SPYV
Name: Sectors Dual Defense			XLB	XLE	XLF	XLK	XLP	XLI	SELL: -New-
Score: 87	Safety: 15	MDD: 24%	XLU	XLV	XLY	MDY	SPY	TRM	BUY: XLY
Name: Growth Dual Defense			SPYG	MDYG	SLYG	RPG	IWY	STLG	SELL: -New-
Score: 102	Safety: 35	MDD: 20%	VTWG	VONG	MGK	VOT	VUG	TRM	BUY: VOT
Name: Value Dual Defense			SPYV	MDYV	SLYV	RPV	IWX	STLV	SELL: -New-
Score: 91	Safety: 32	MDD: 20%	VTWV	VONV	MGV	VOE	VTV	TRM	BUY: MDYV
Name: Dividends Dual Defense			SPYD	DWX	IGRO	SDY	WDIV	DGRO	SELL: -New-
Score: 66	Safety: 33	MDD: 14%	DVY	HDV	IDV	TDVG	NDVG	TRM	BUY: TRM
Name: Qual-Low-Vol Dual Defens			QUAL	FQAL	JQUA	VFQY	ONEV	FDLO	SELL: -New-
Score: 58	Safety: 22	MDD: 13%	QLV	QLVE	DGRW	LGLV	SPLV	TRM	BUY: VFQY
Name: Innovation Dual Defense			IBUY	BUYZ	DTEC	EDOC	QTUM	IDRV	SELL: -New-
Score: 126	Safety: 18	MDD: 23%	IVES	FIVG	ARKG	ARKK	ARKQ	TRM	BUY: QTUM

Dual Defence Example



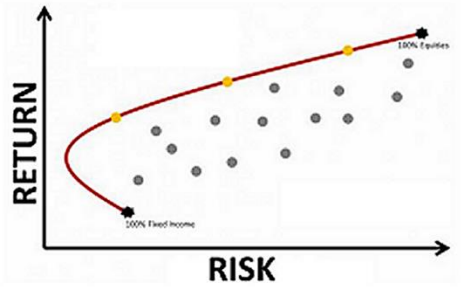
MPT: Diversify and Rebalance

The Efficient Frontier Is The Best You Can Do

Vintage 1952

65 Years Old Is Retirement Age

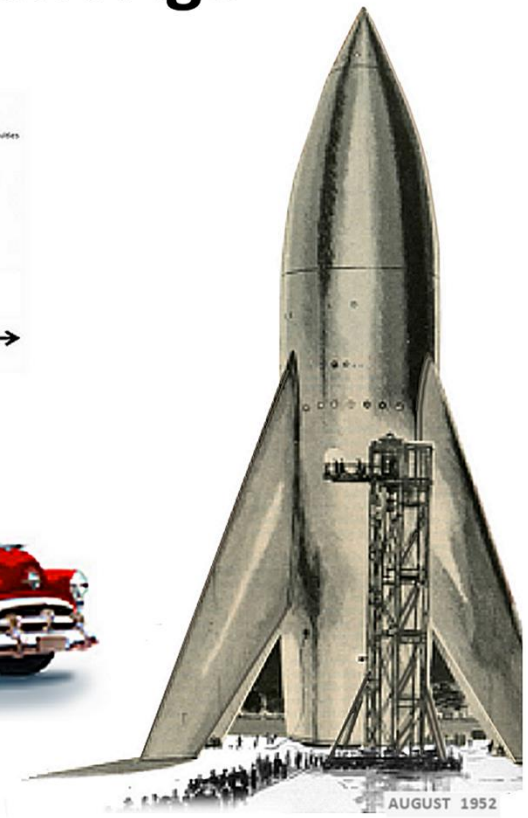
Modern Portfolio Theory



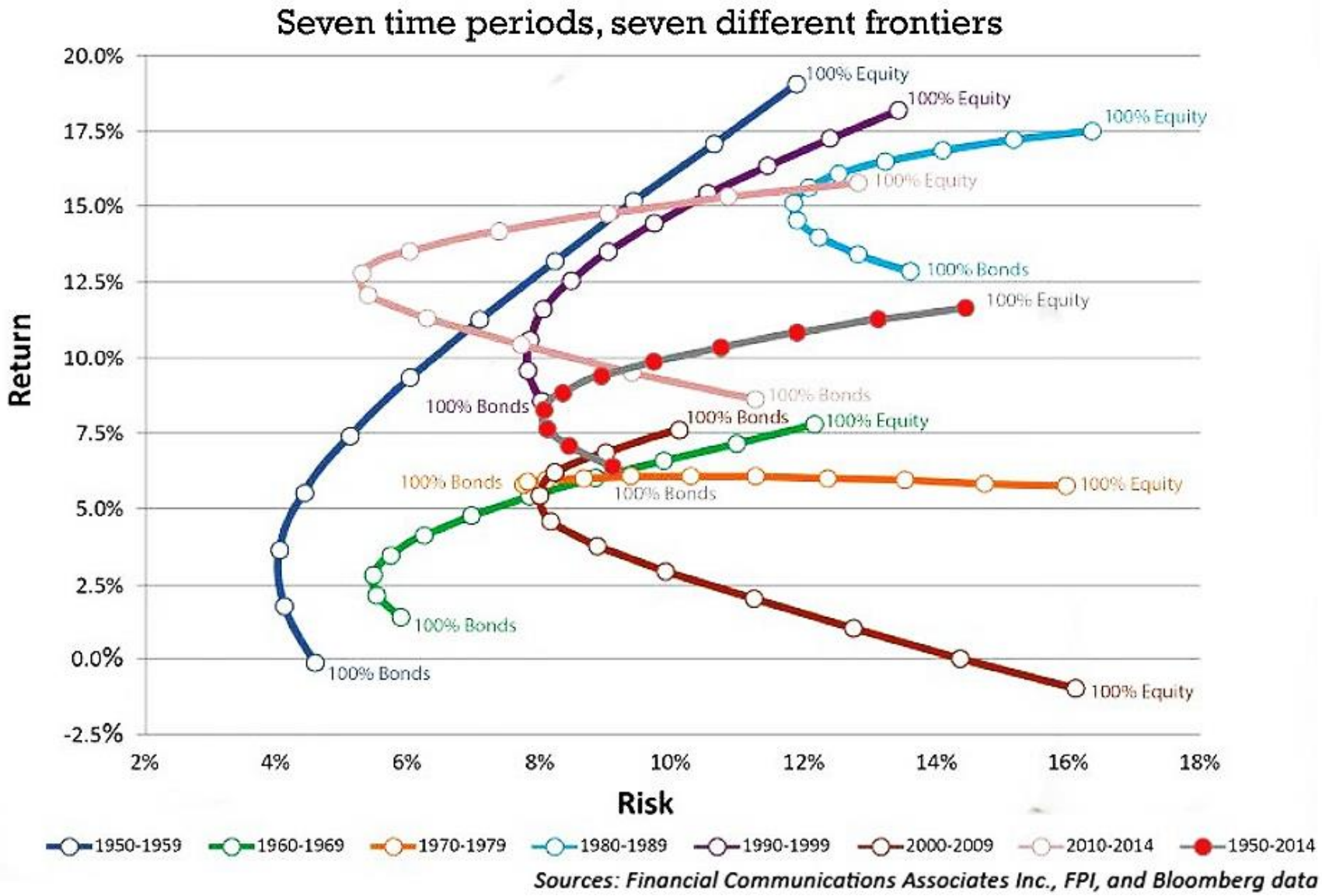
Printers

Phones

Cars



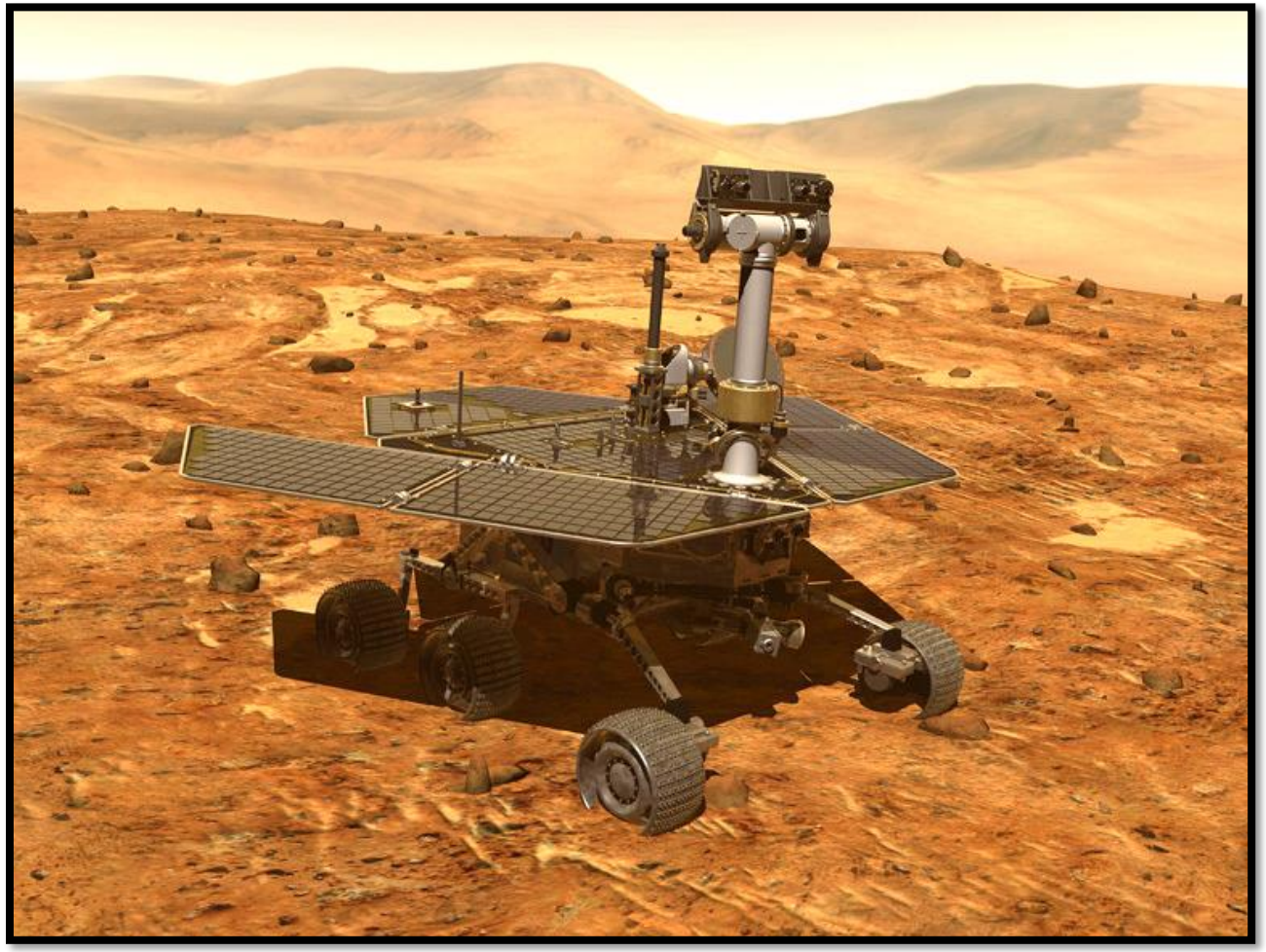
The Efficient Frontier Is The Best You Can Do



MPT:
Based On
Hindsight Bias

MPT:
Momentum
Not Employed

What Changed After 1952 to Get Us Here?



Mars Rover - Opportunity

iPhones

Momentum in Market Data

Narasiman Jegadeesh
Emory University

Sheridan Titman
U. of Texas, Austin

Seminal Academic Paper:

"Returns to Buying Winners and Selling Losers: Implications for Stock Market Efficiency"

(1993)

Profitability of Momentum Strategies:
An Evaluation of Alternative Explanations
By Narasiman Jegadeesh and Sheridan Titman (2001)

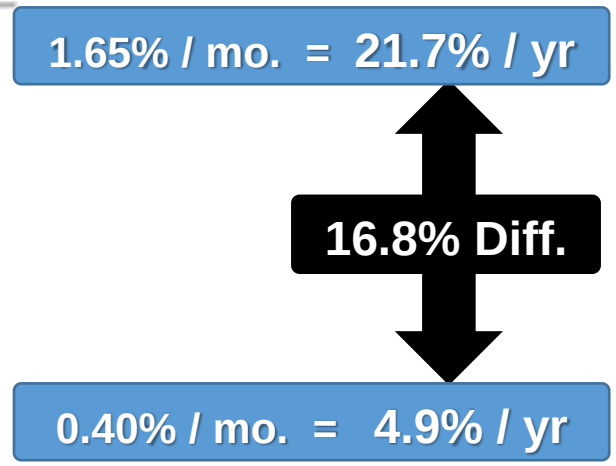
Following Jegadeesh and Titman (1993), at the end of each month we rank the stocks in our sample based on their past six-month returns (Month −5 to Month 0) and then group the stocks into 10 equally weighted portfolios based on these ranks. Each portfolio is held for six months (Month 1 to Month 6) following the ranking month.

Table I

Momentum Portfolio Returns

This table reports the monthly returns for momentum portfolios formed based on past six-month returns and held for six months.

	All Stocks		
	1965–1998	1965–1989	1990–1998
P1 (Past winners)	1.65	1.63	1.69
P2	1.39	1.41	1.32
P3	1.28	1.30	1.21
P4	1.19	1.21	1.13
P5	1.17	1.18	1.12
P6	1.13	1.15	1.09
P7	1.11	1.12	1.09
P8	1.05	1.05	1.03
P9	0.90	0.94	0.77
P10 (Past losers)	0.42	0.46	0.30



Momentum in Market Data

Eugene Fama
Nobel Prize, 2013

Kenneth French
Dartmouth College

“the premier market anomaly” that’s “above suspicion.”

Academic Paper:

“Dissecting Anomalies”

(2008)

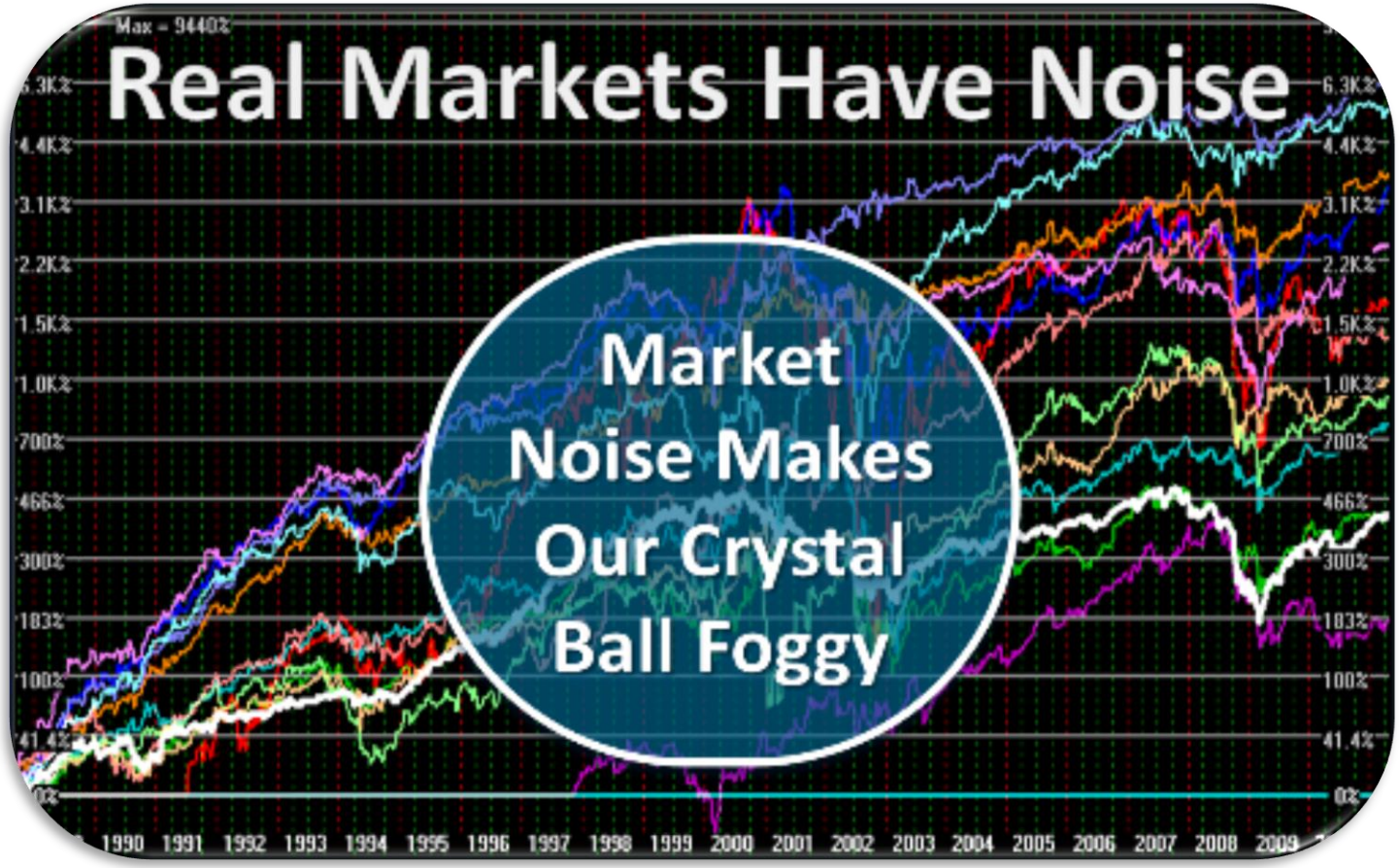
Trends / Momentum are Real

By definition, momentum is a "Portal to the Future."

Where something in the recent past ...

... tells us something about the near future.

Momentum **IS** the crystal ball we all hope to find.

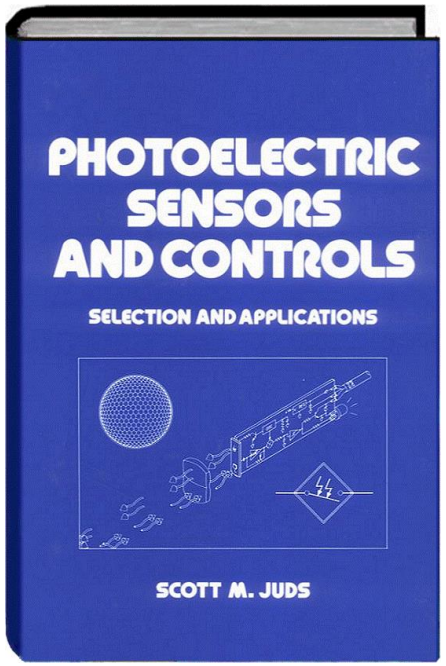


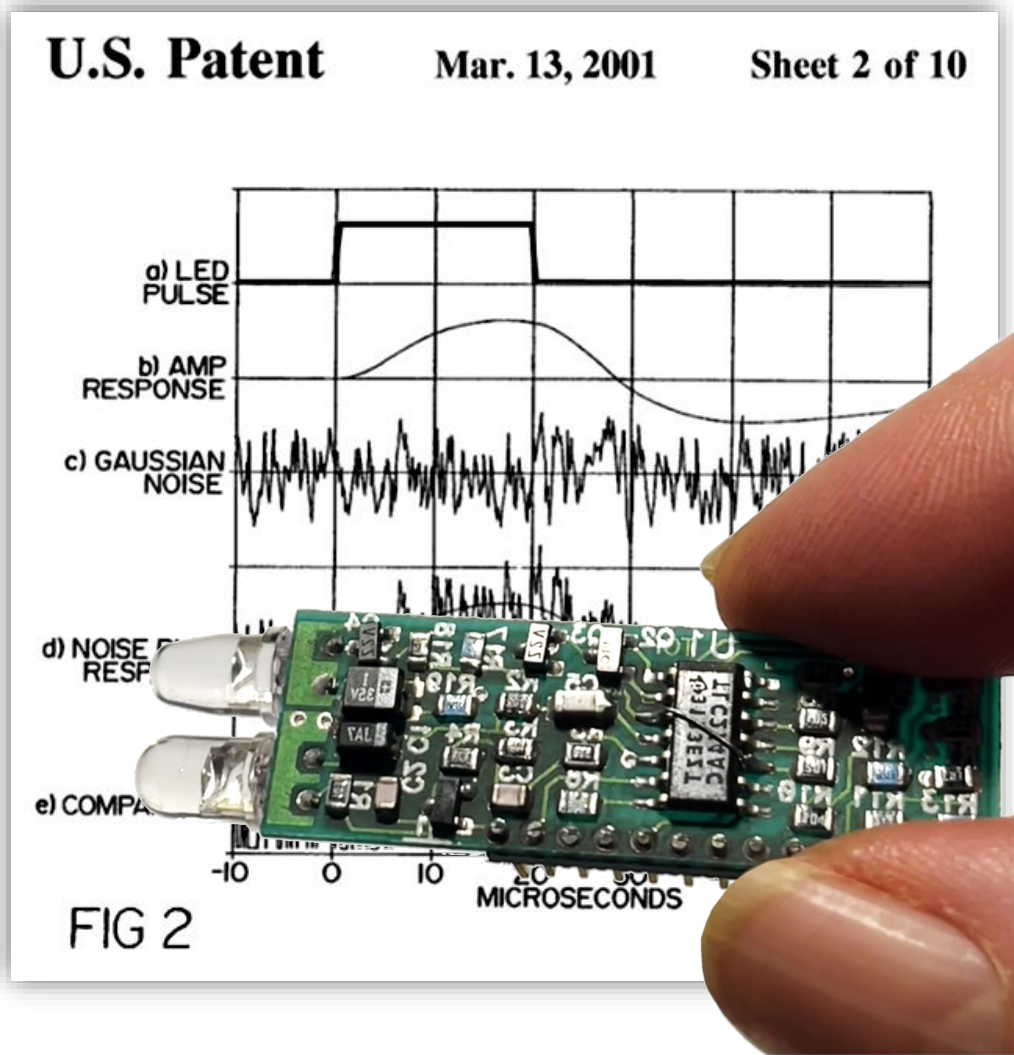
Reducing the Noise
Is the Whole Game

Reducing the Noise Is the Whole Game

Signal Processing Theory is Required

- MSEE from Stanford University
- Over 40 U.S. and foreign patents
- VP Eng. Eaton's optical sensor division





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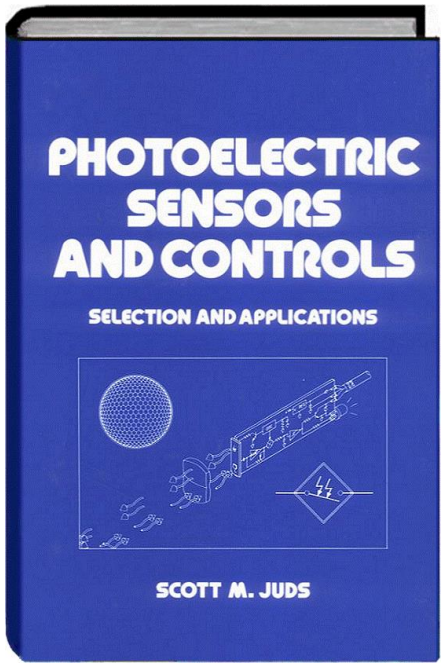
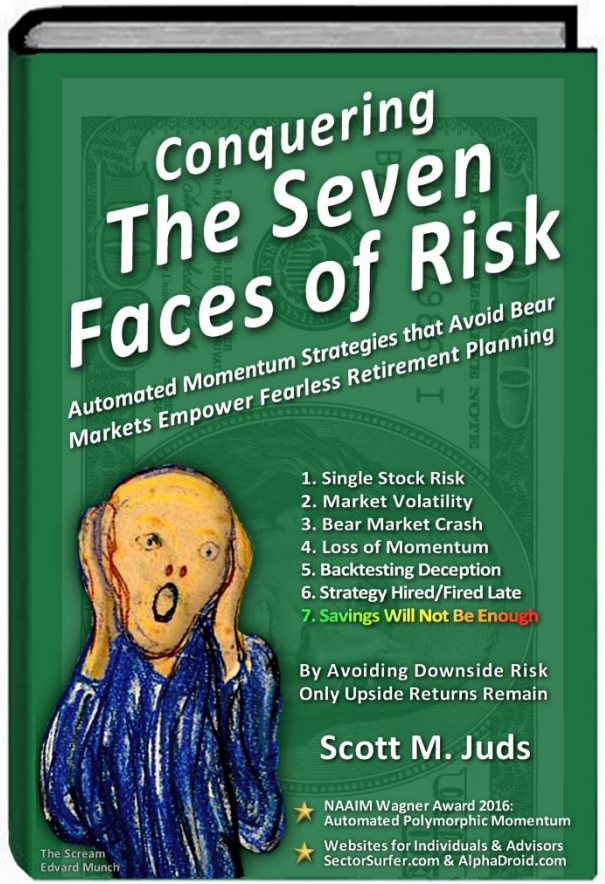
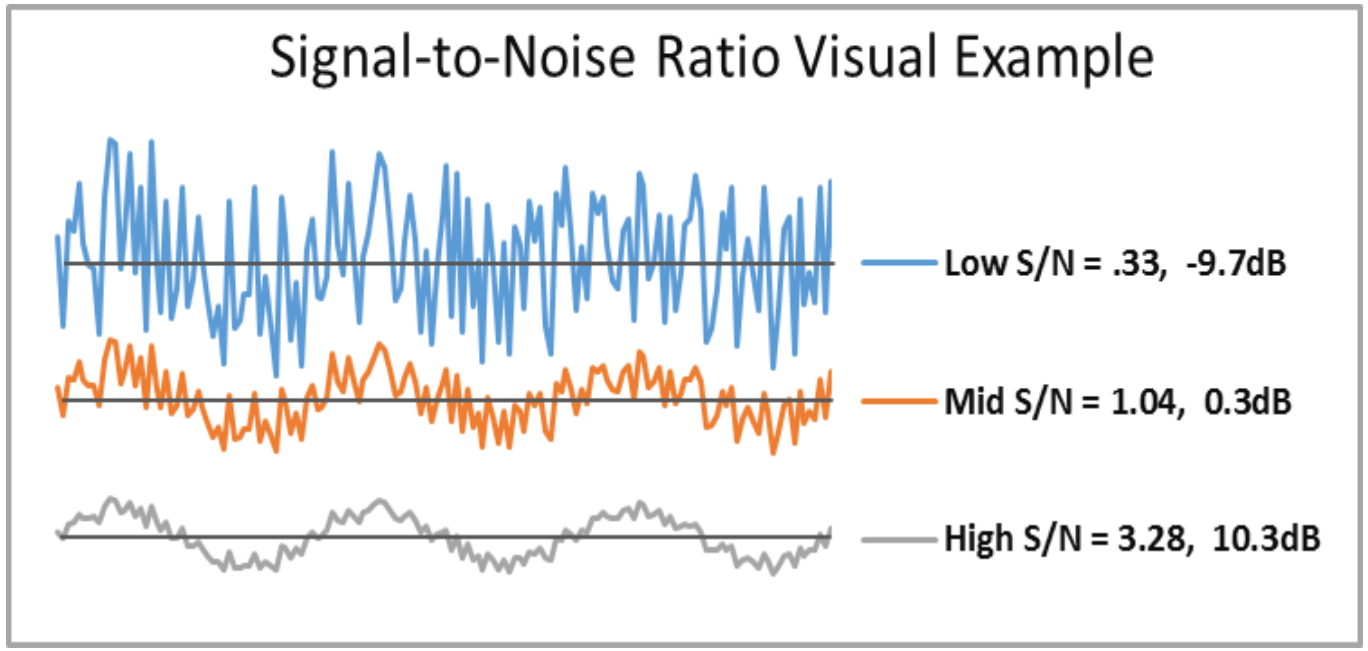




Claude Shannon
National Medal of
Science, 1966

Signal-to-Noise Ratio

Controls the Probability of Making the Right Decision

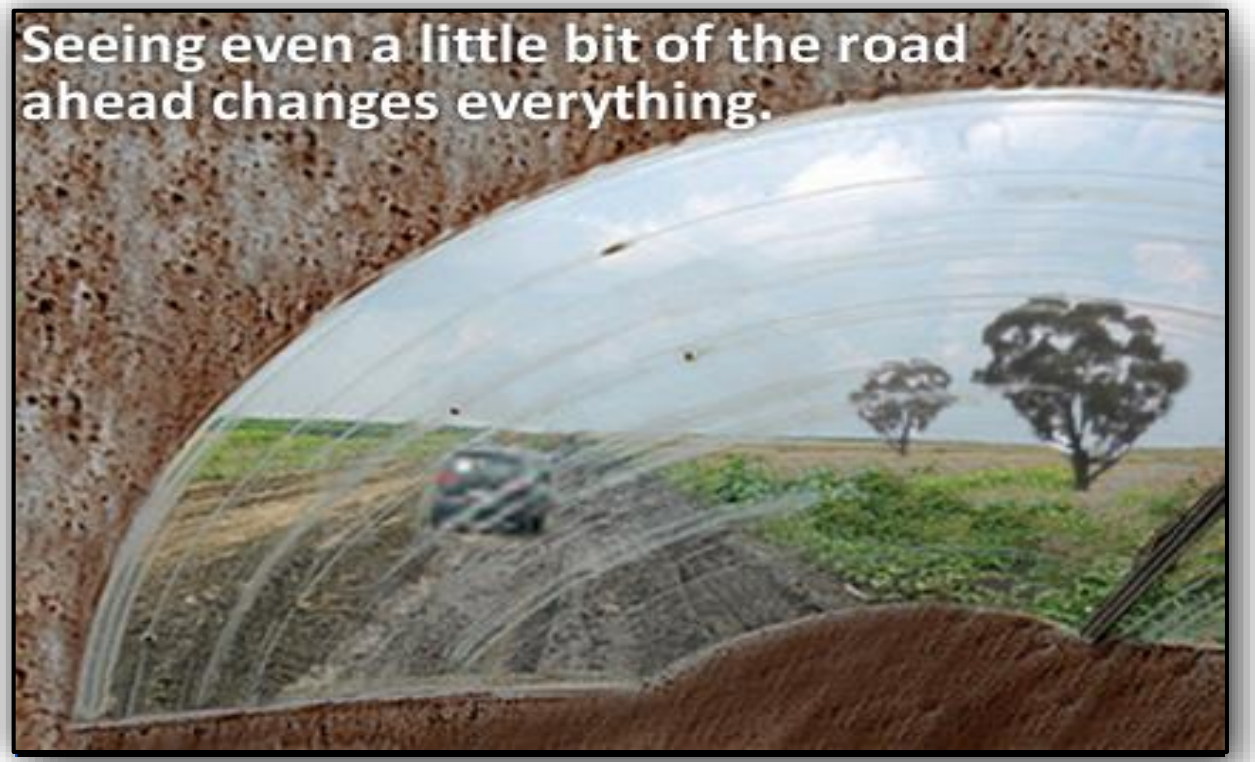


Claude Shannon
National Medal of
Science, 1966

Proved

Signal-to-Noise Ratio

Controls the Probability of Making the Right Decision

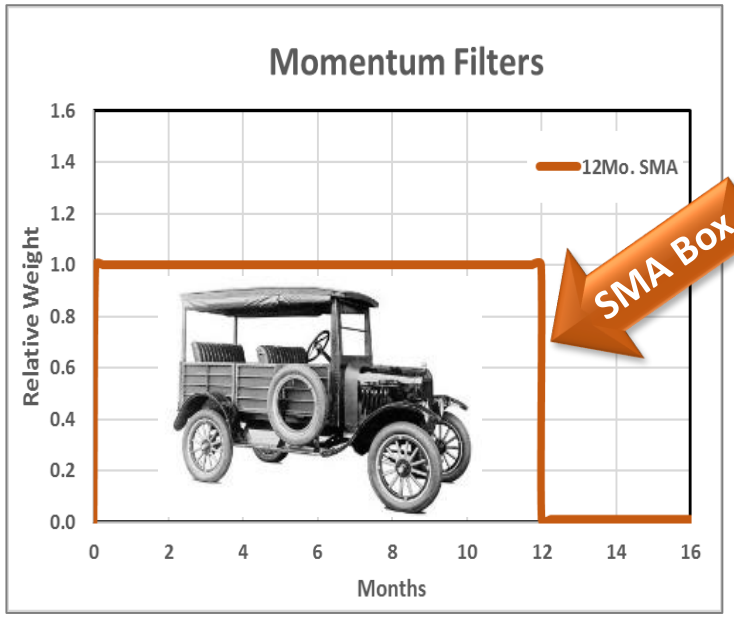


J. H. Van Vleck
Noble Prize, 1977

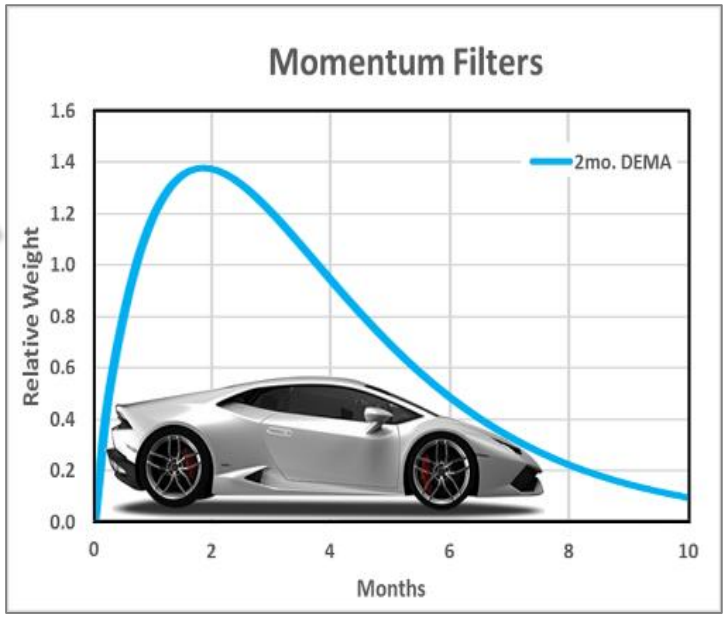
Matched Filter Theory

Design for Optimum
Signal-to-Noise Ratio

Think Outside of the Box



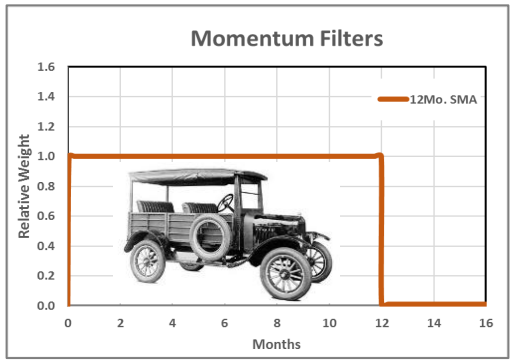
Someplace to Start



Designed for Performance

J. H. Van Vleck
Noble Prize, 1977

Think Outside of the Box



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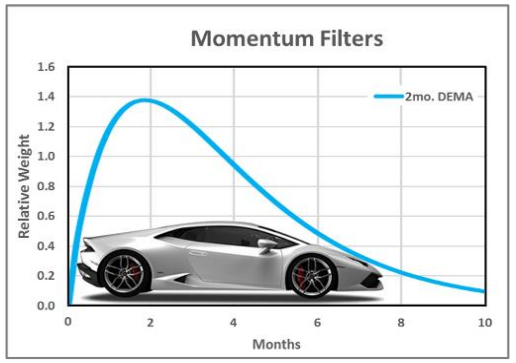
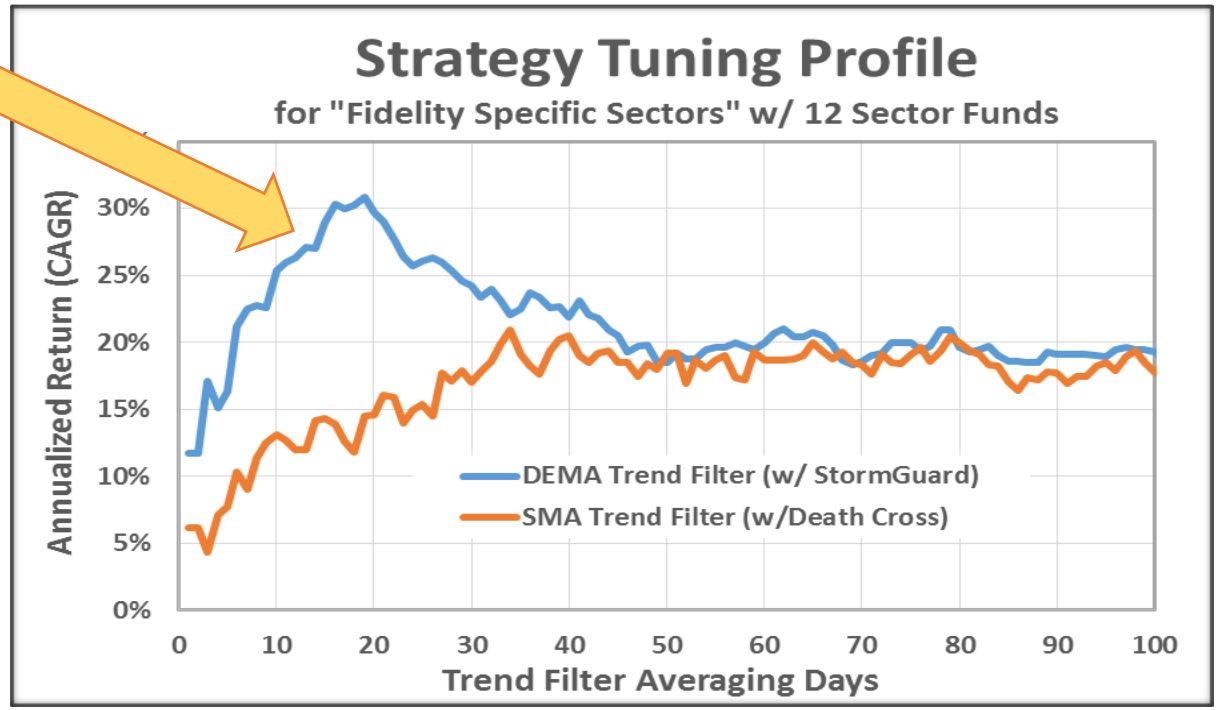
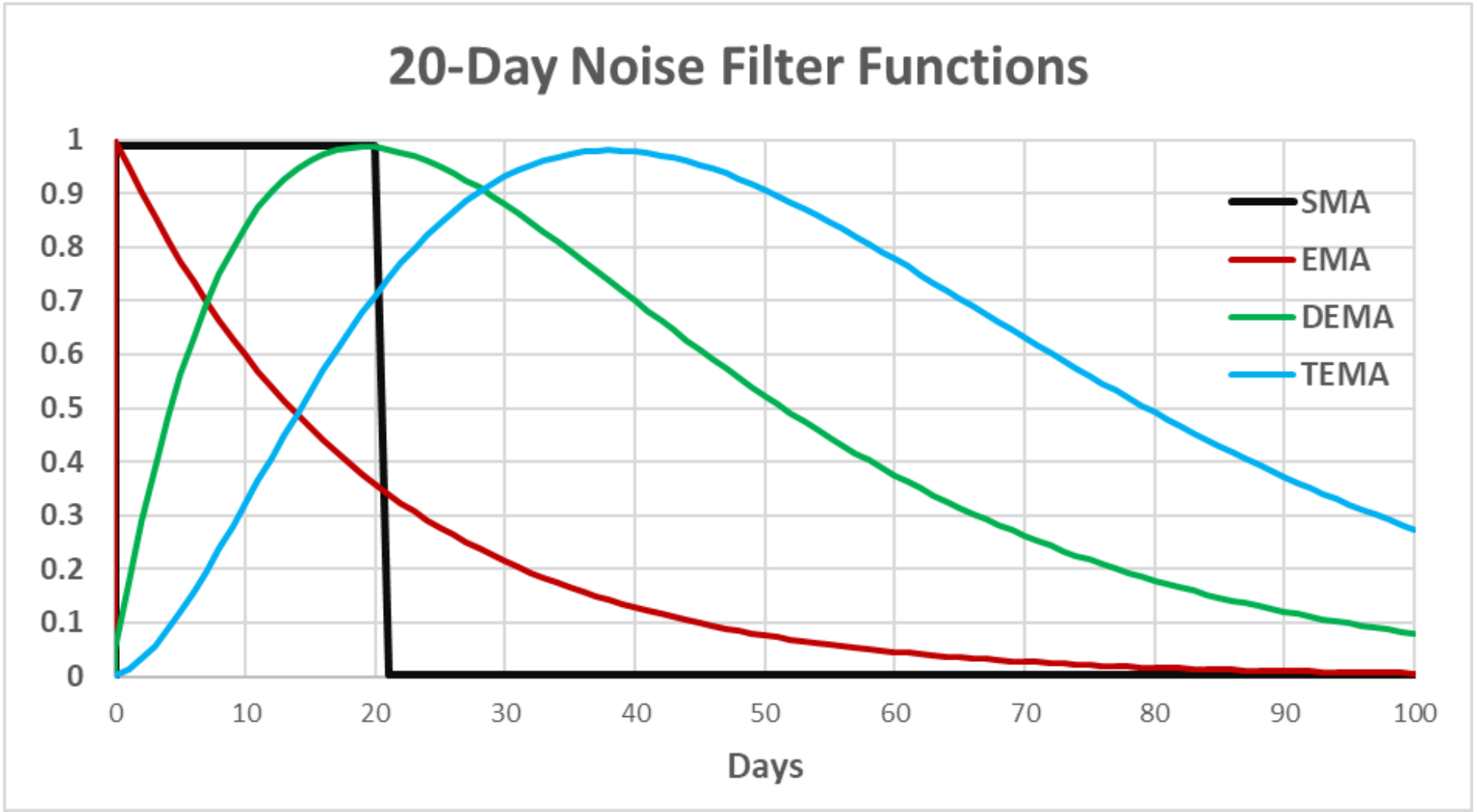


Designed for Performance



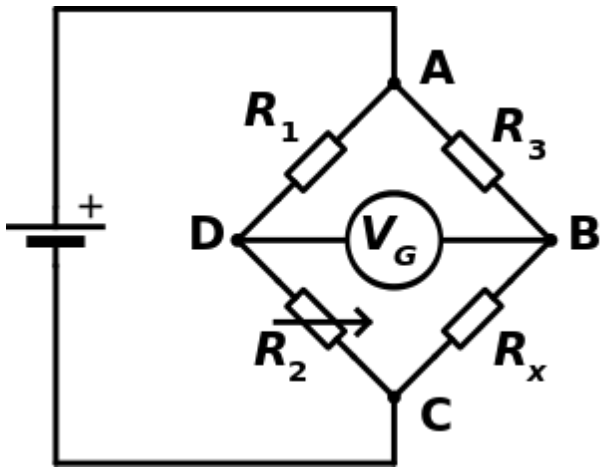

20-Day Noise Filter Functions
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10
20
30
40
50
60
70
80
90
100
Days
SMA
EMA
DEMA
TEMA

Samuel H. Christie
Royal Society 1836

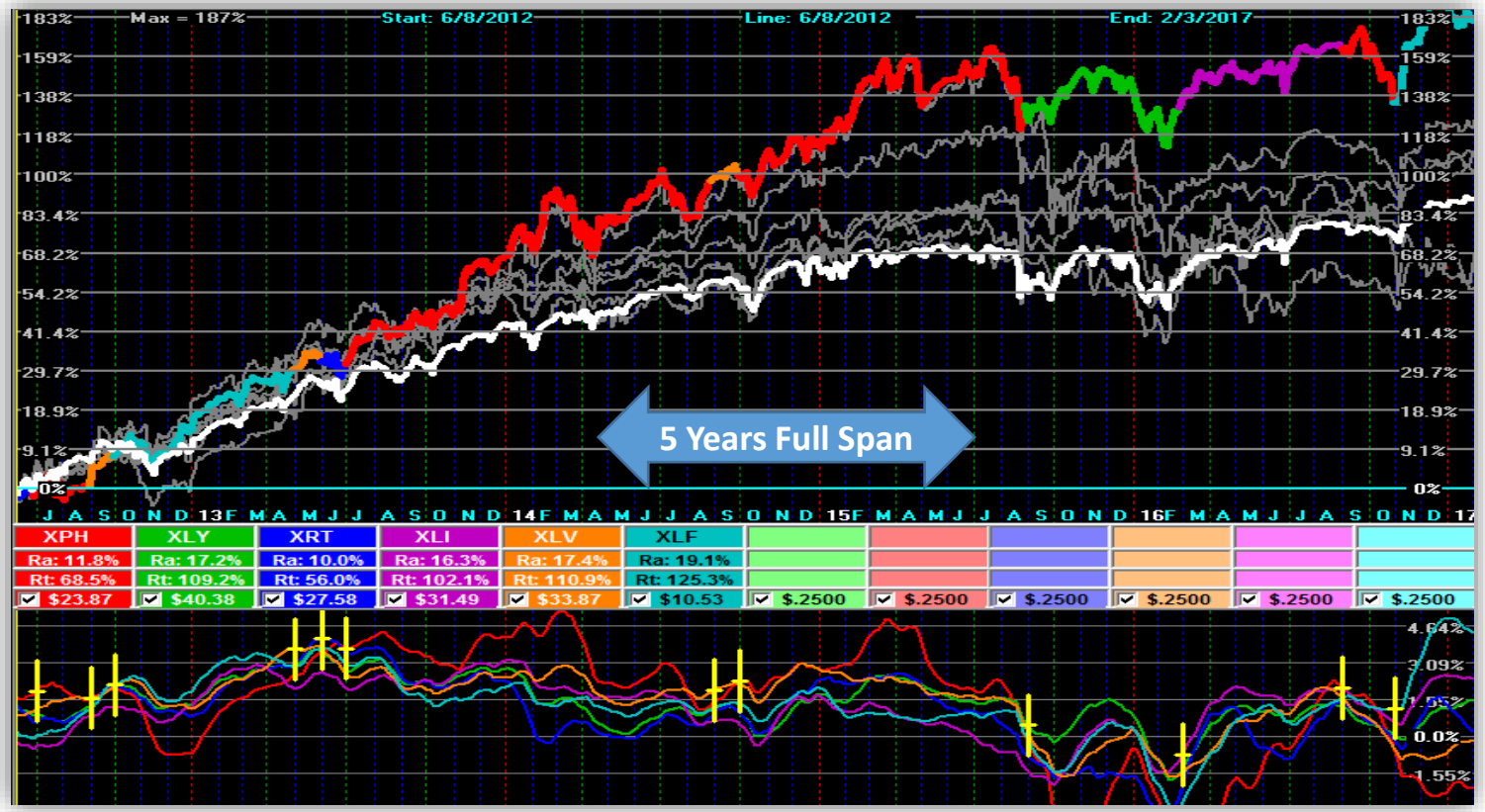
Differential Signal Processing

Removes Common Mode Noise

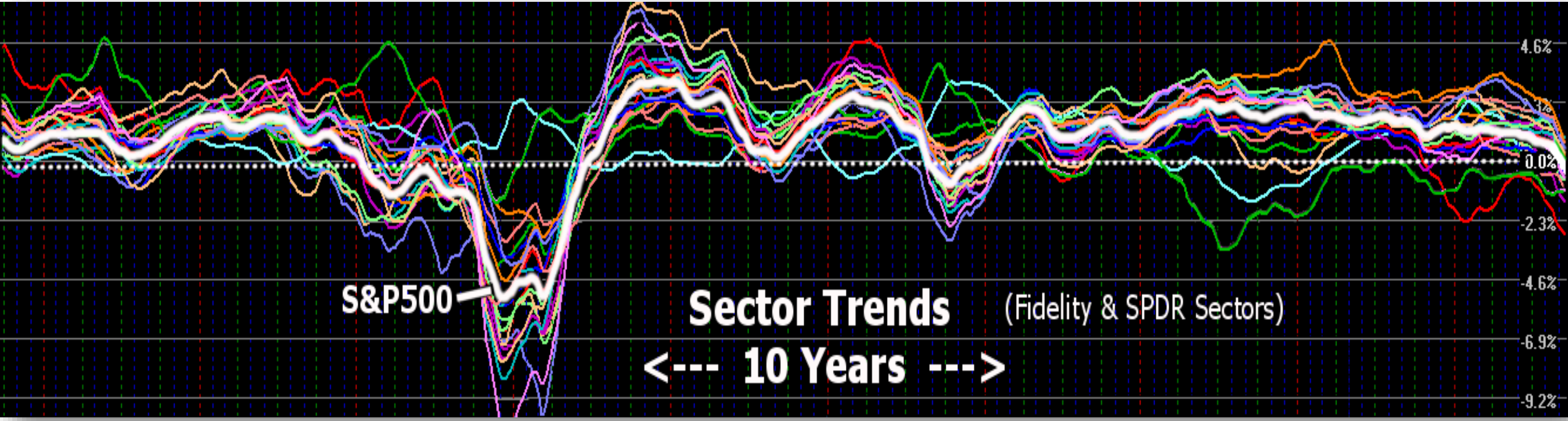
(Relative Strength)

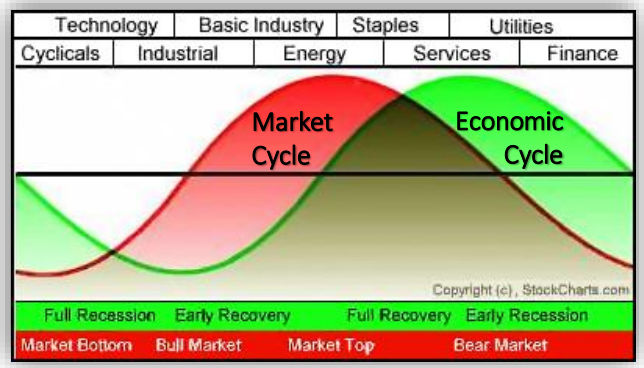


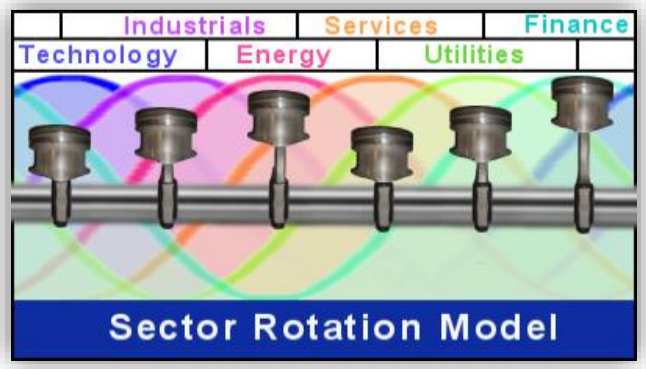
Wheatstone Bridge



Sectors Provide Power Strokes







The Bear Market Problem

S&P 500

50 %

65 %

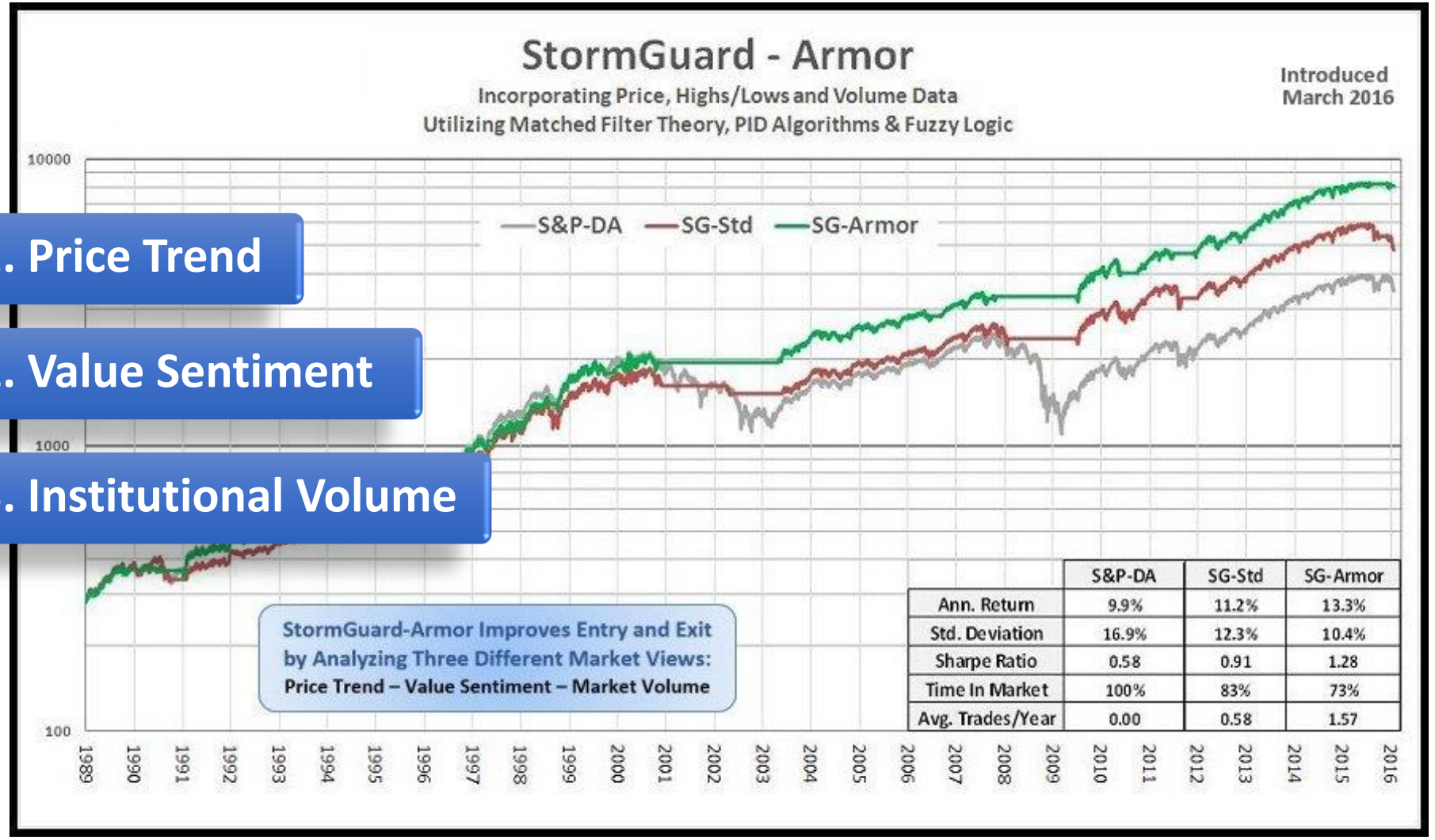
1991

2018

The Death Cross Problem

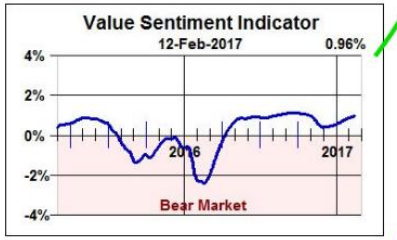
50d Moving Average Crosses the 200d Moving Average

StormGuard-Armor
Detect the Onset of Bear Markets

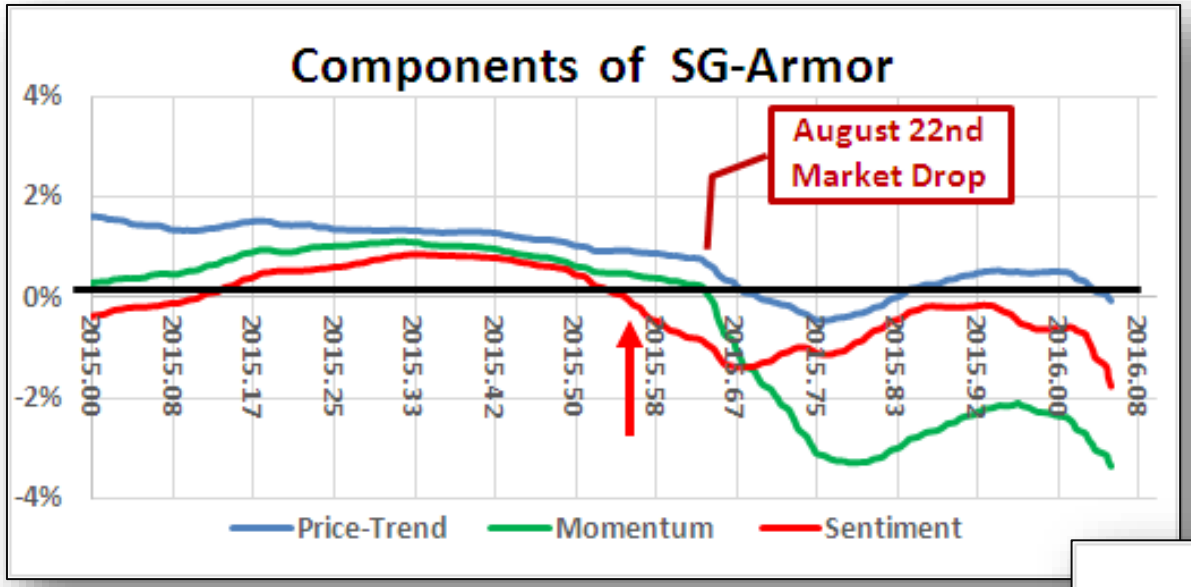


	S&P-DA	SG-Std	SG-Armor
Ann. Return	9.9%	11.2%	13.3%
Std. Deviation	16.9%	12.3%	10.4%
Sharpe Ratio	0.58	0.91	1.28
Time In Market	100%	83%	73%
Avg. Trades/Year	0.00	0.58	1.57

1. Price Trend
2. Value Sentiment
3. Institutional Volume

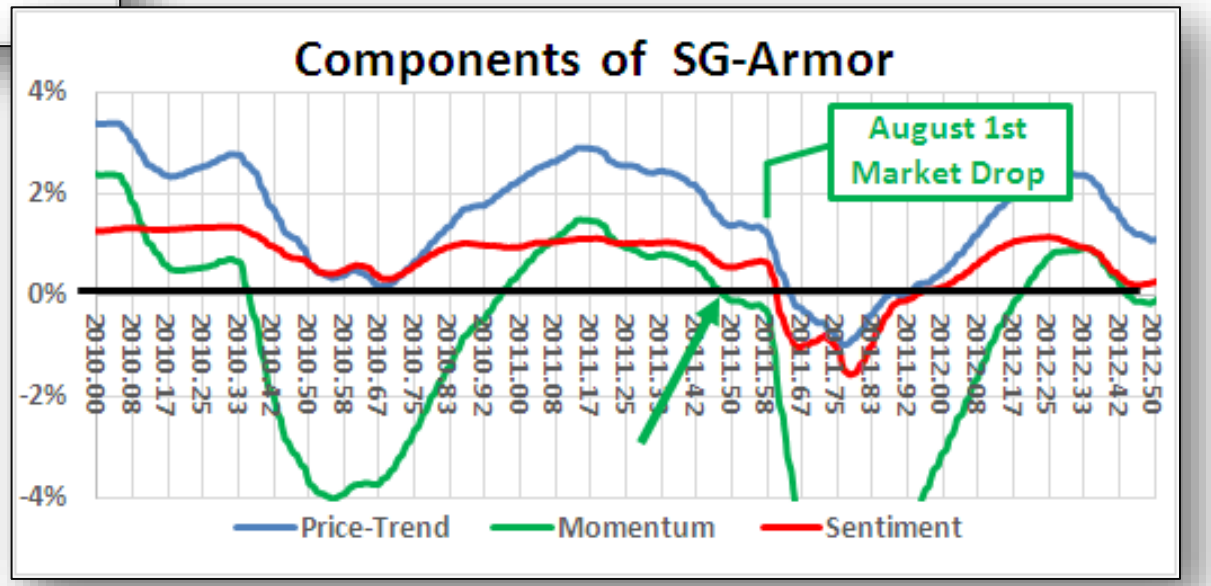


Why is StormGuard-Armor Better?



It Analyses Three Different Kinds of Market Behavior.

It Incorporates Event Detection, not Simply Timing Adjustments.



ALPHA DROID
Change the Game

Alpha Daily Brief

Heat Map, Risk Avoidance, and Portfolio Tools

ALPHA: the additional return of an investment over the S&P500 after adjustment for risk.

Risk Avoidance

Risk is Not a One-Dimensional Problem

+0.79%

StormGuard

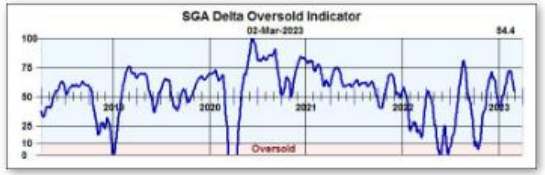
Please Read Narrative Below

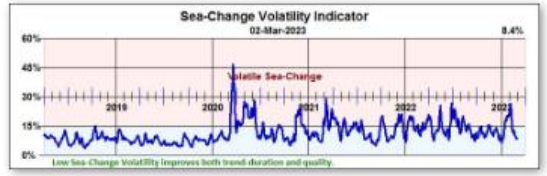
◉ 0-5 Years ○ 5-10 Years
○ 10-20 Years ○ 20-30 Years

Explore

- A Quick Video Tour
- StormGuard-Armor
- Black Swan Vaccination
- Bear Market Strategies
- StormGuardData.csv

Click a chart below to expand it.



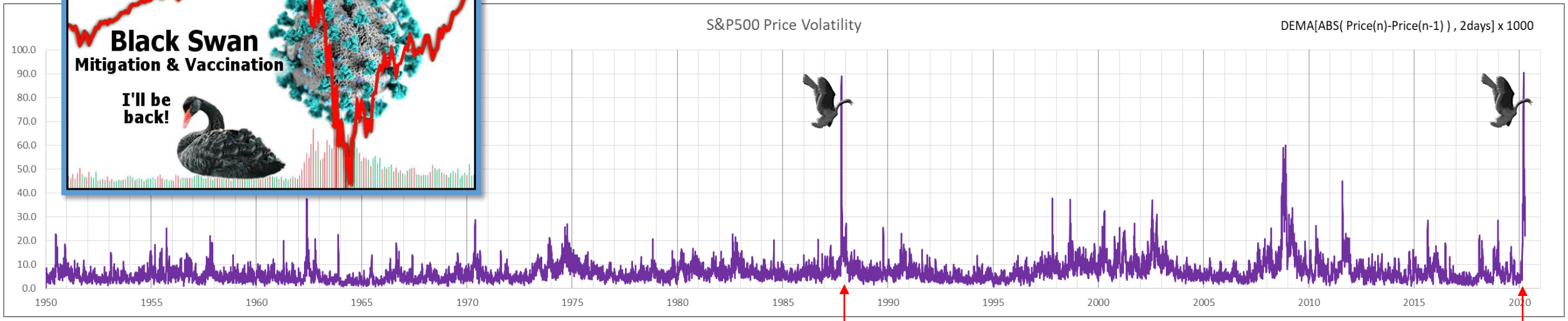


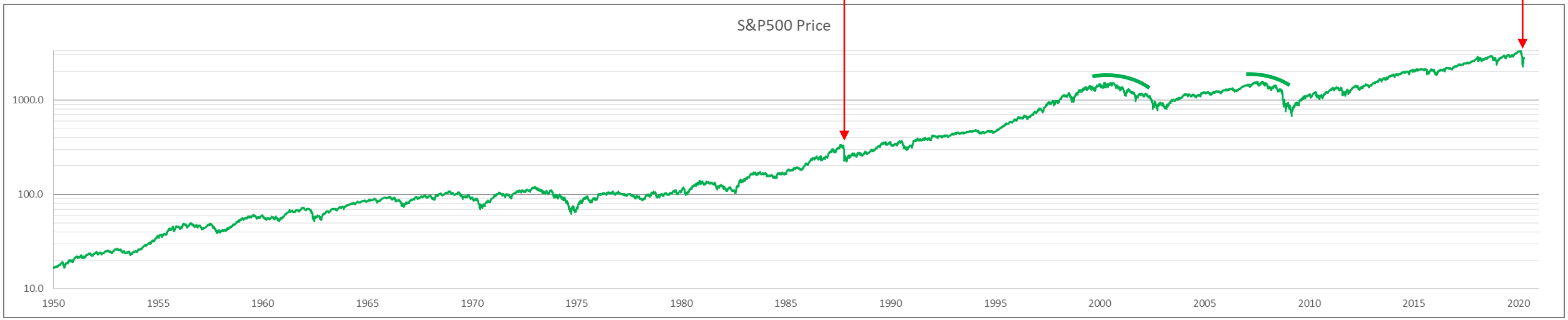
Narrative: StormGuard indicates market safety is strong and improving. NOTE: StormGuard-Armor, like a smoke alarm, is not perfectly clairvoyant but helps improve your long-term batting average.

www.AlphaDailyBrief.com

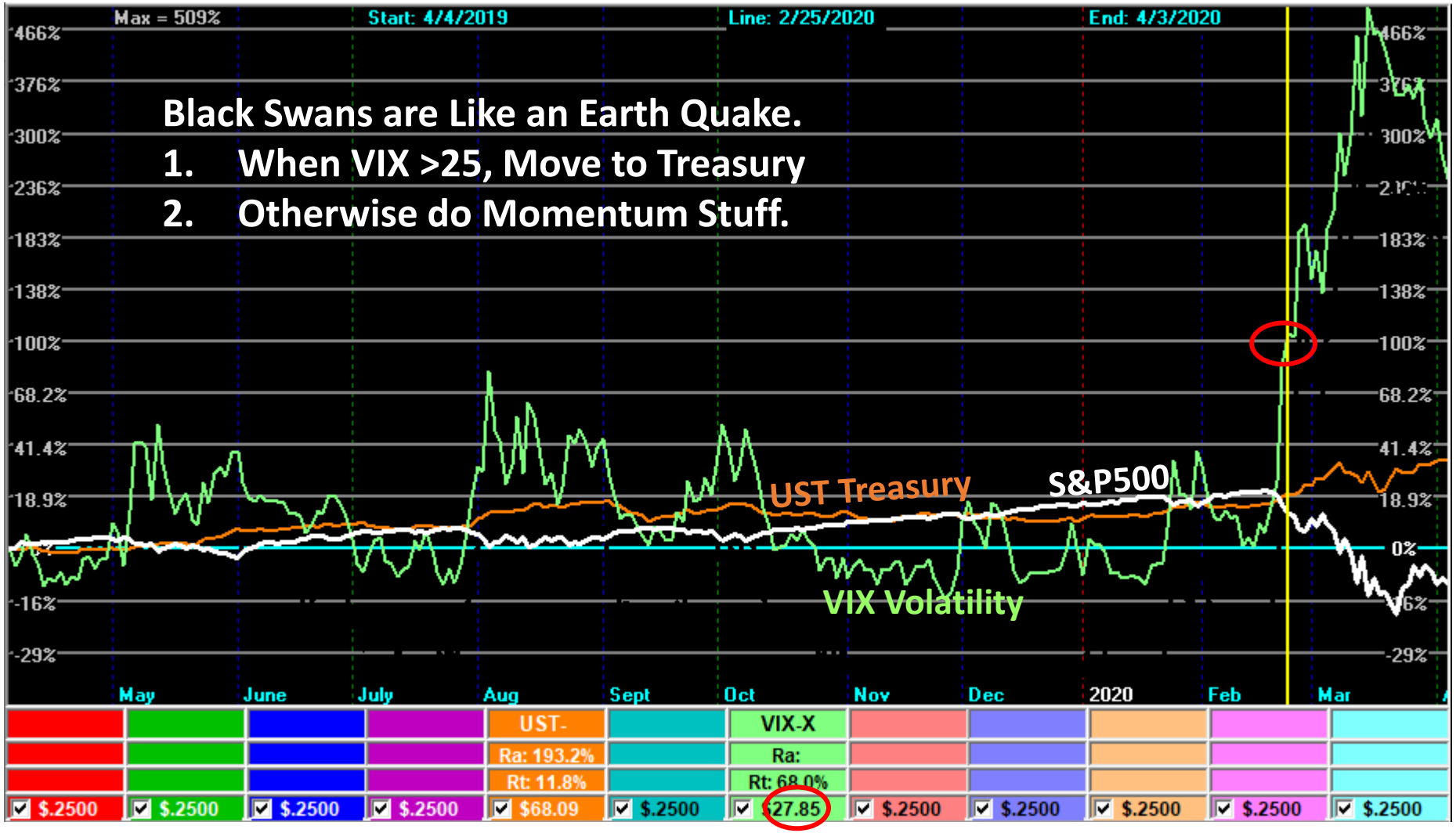
Black Swan Events

January 1950 to April 2020

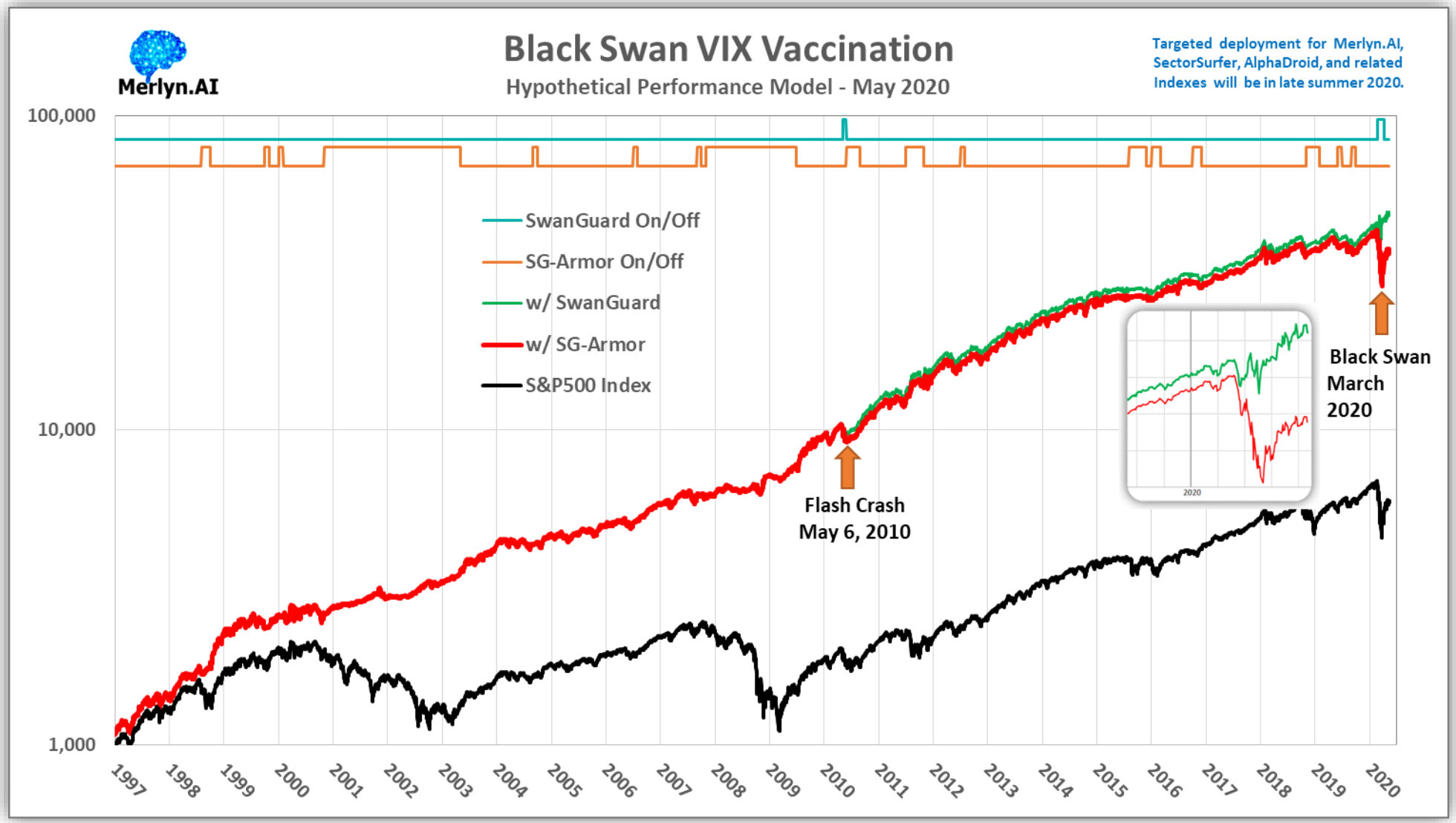




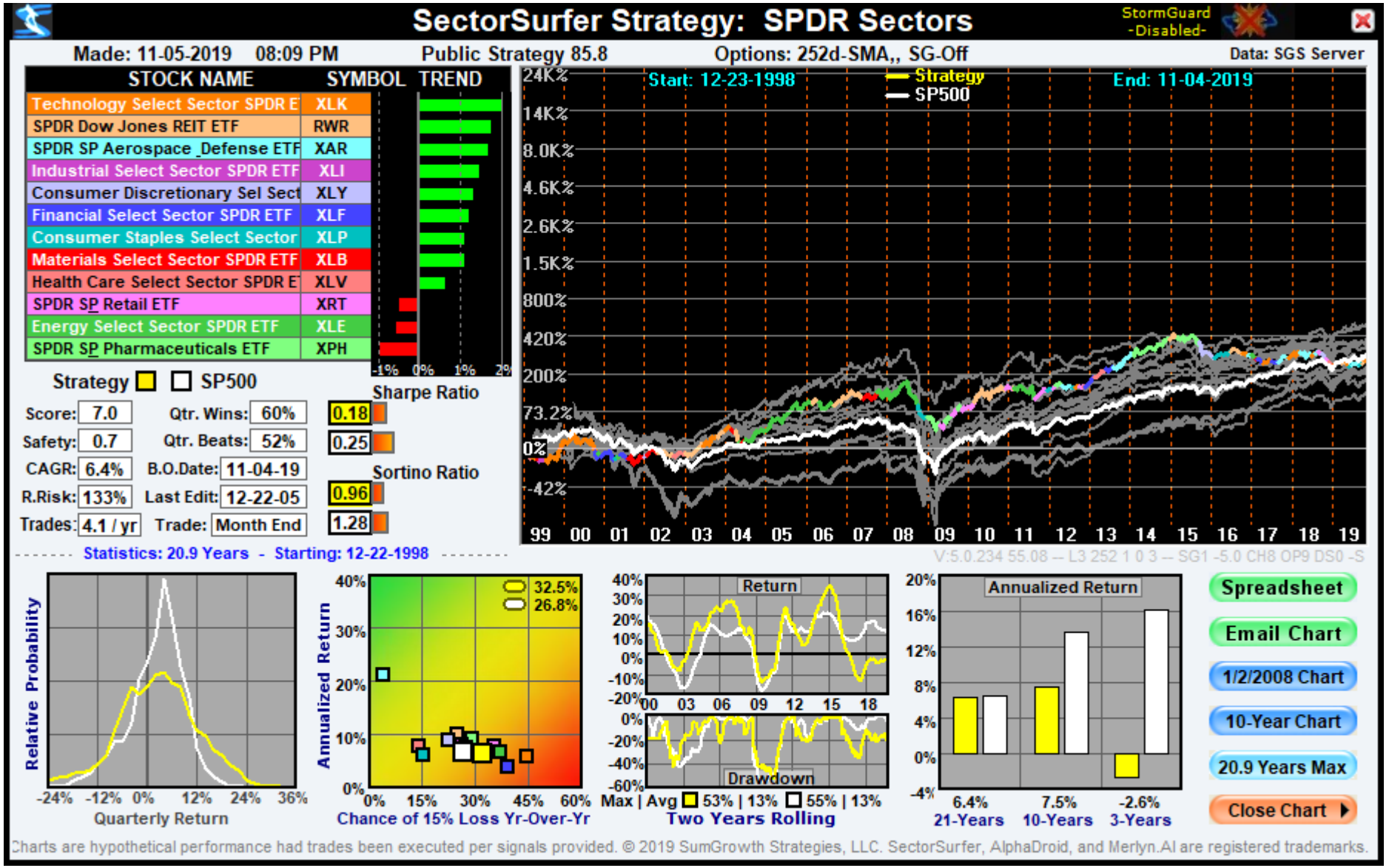
Vaccination Response
Real-Time BS Detection



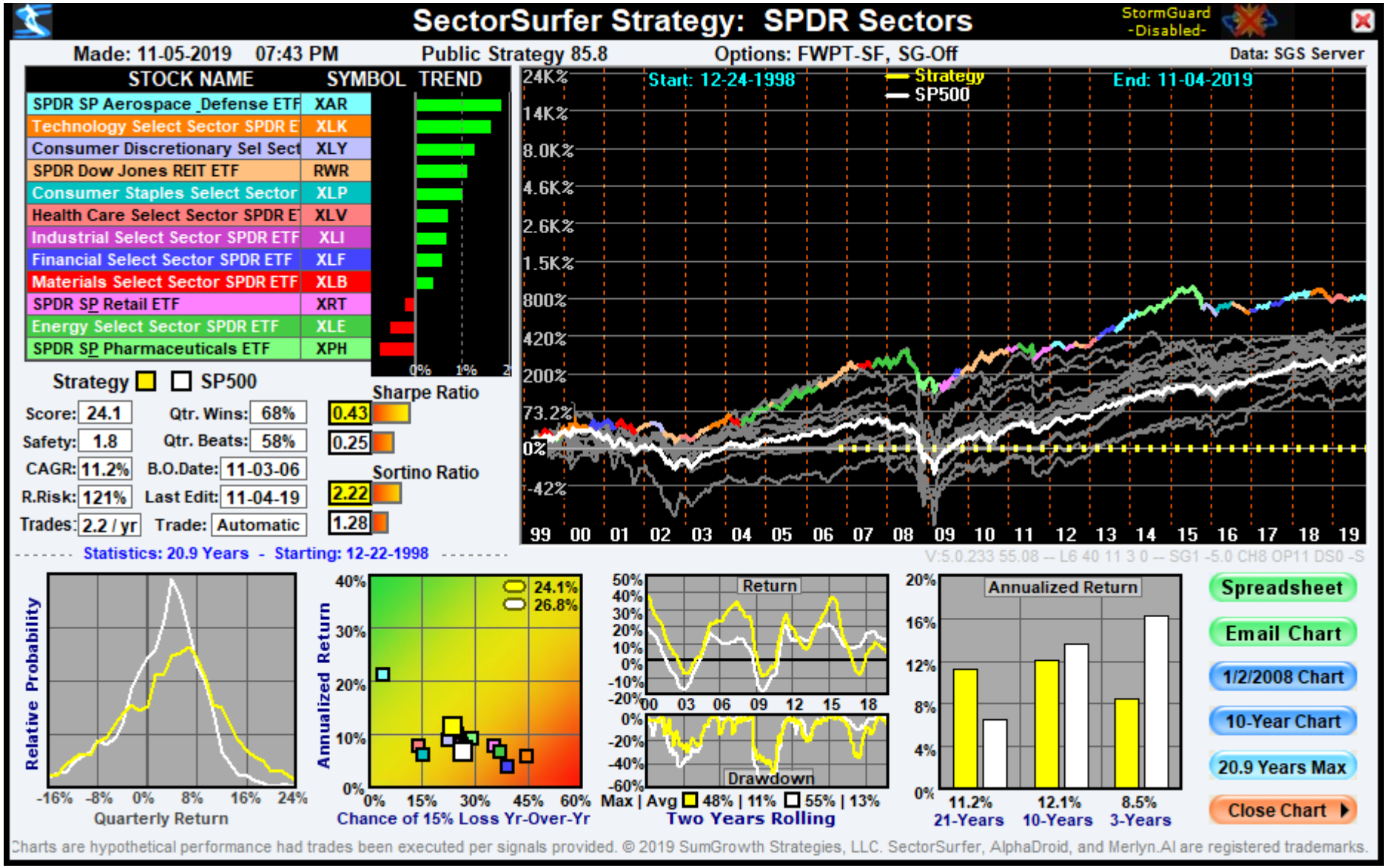
Vaccination Response
Real-Time BS Detection



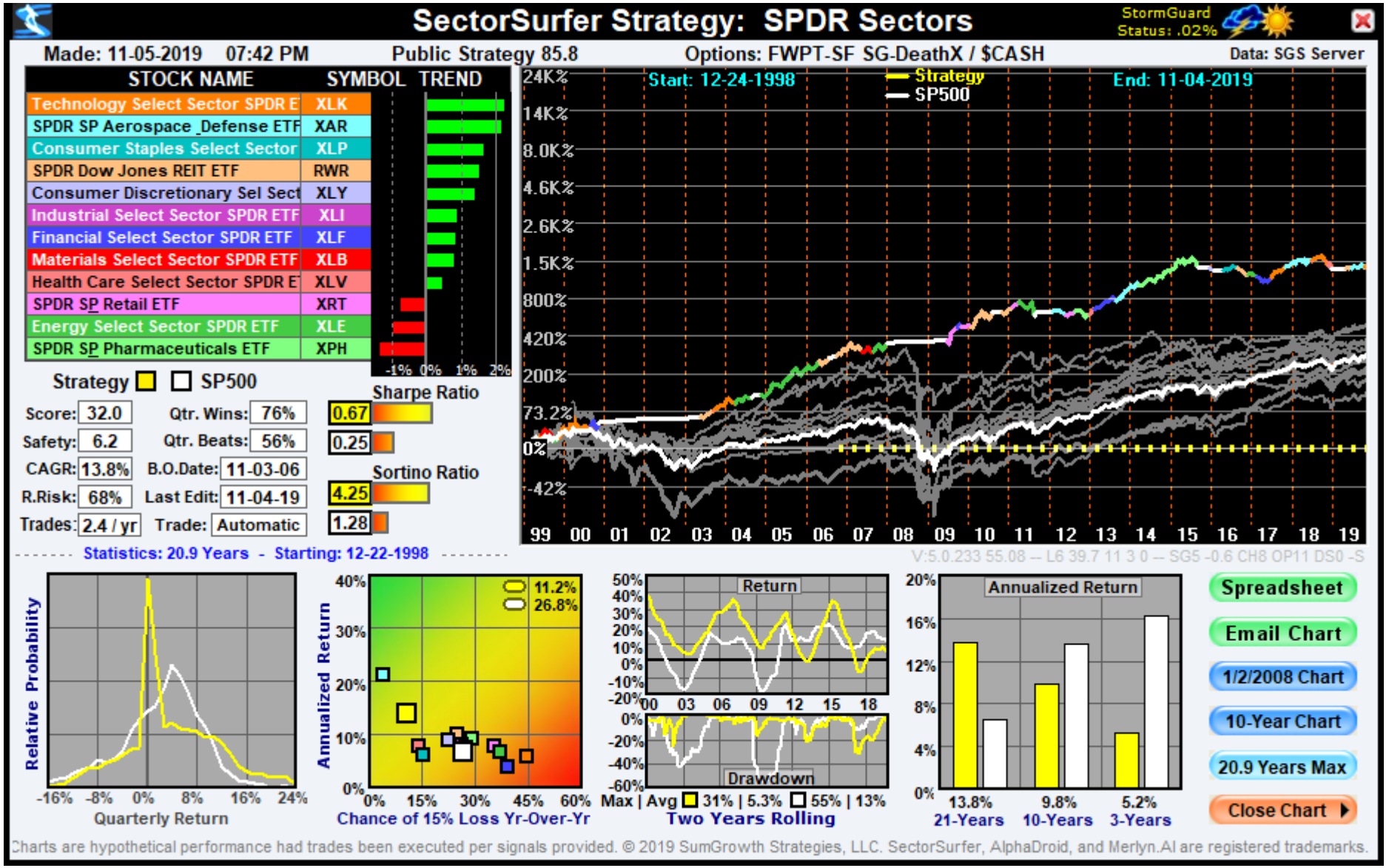
12-Month SMA Sector Strategy



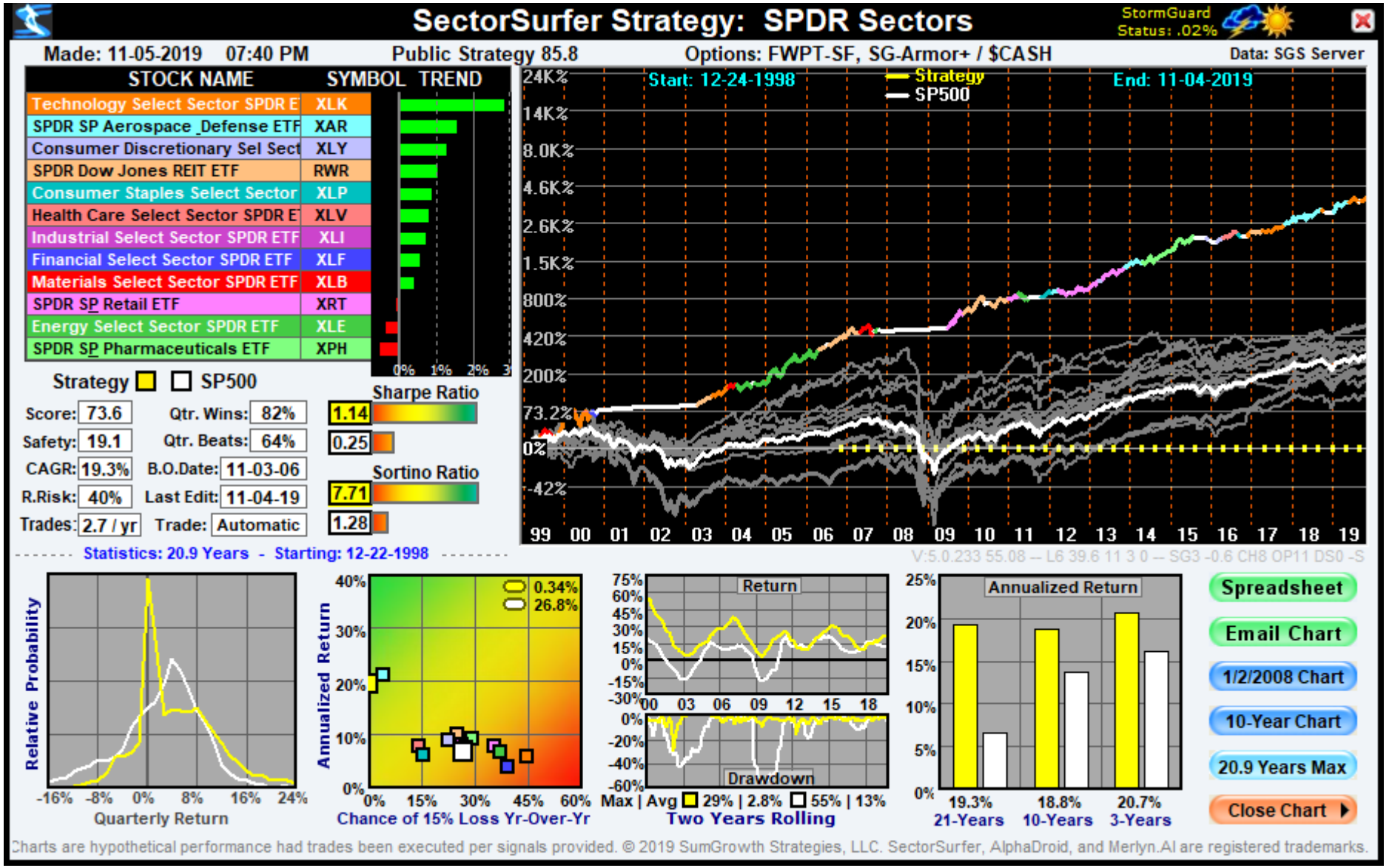
FWPT DEMA Strategy in painted path.



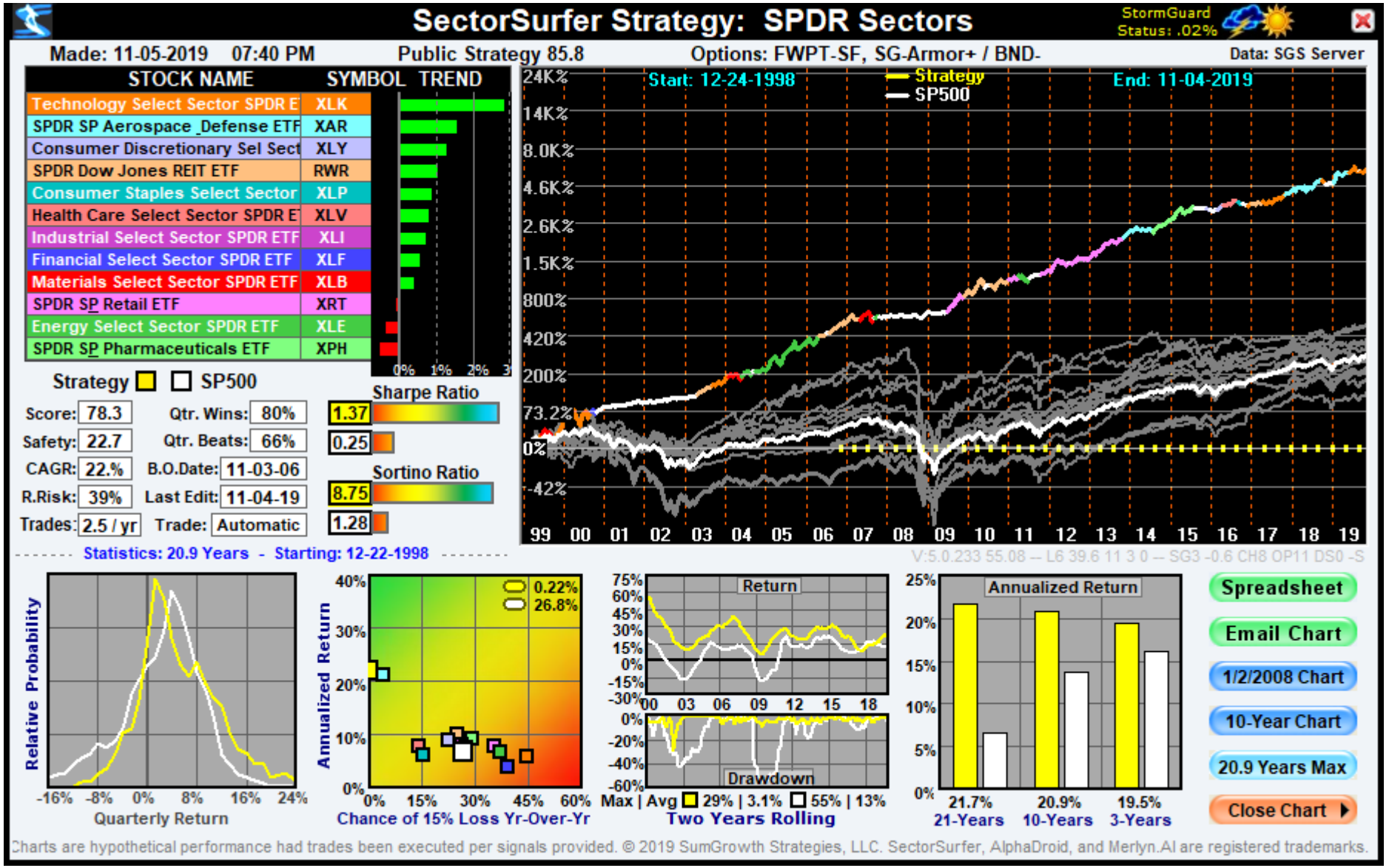
FWPT DEMA Strategy w/ Death Cross to Cash



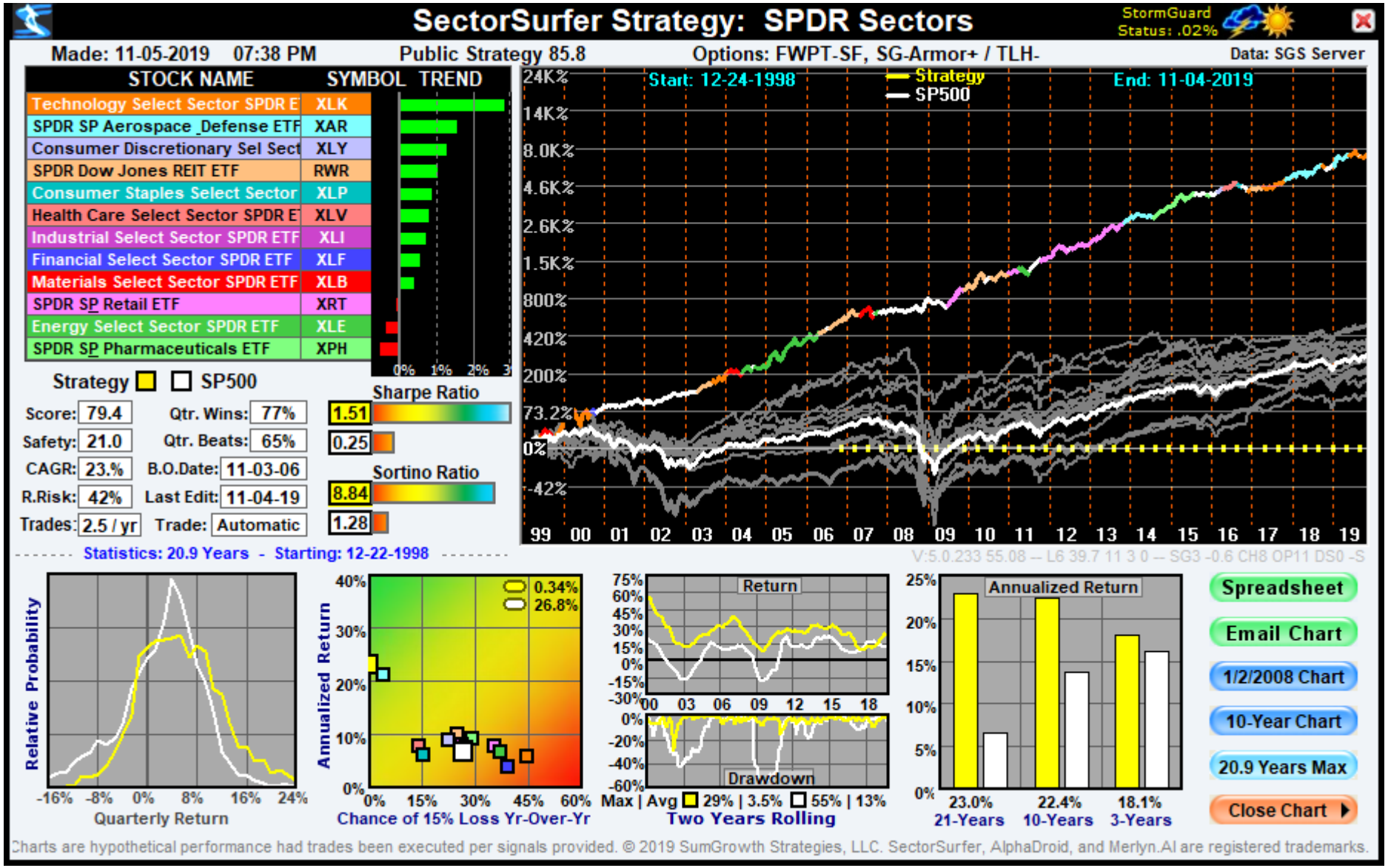
FWPT DEMA Strategy w/ AG-Armor to Cash



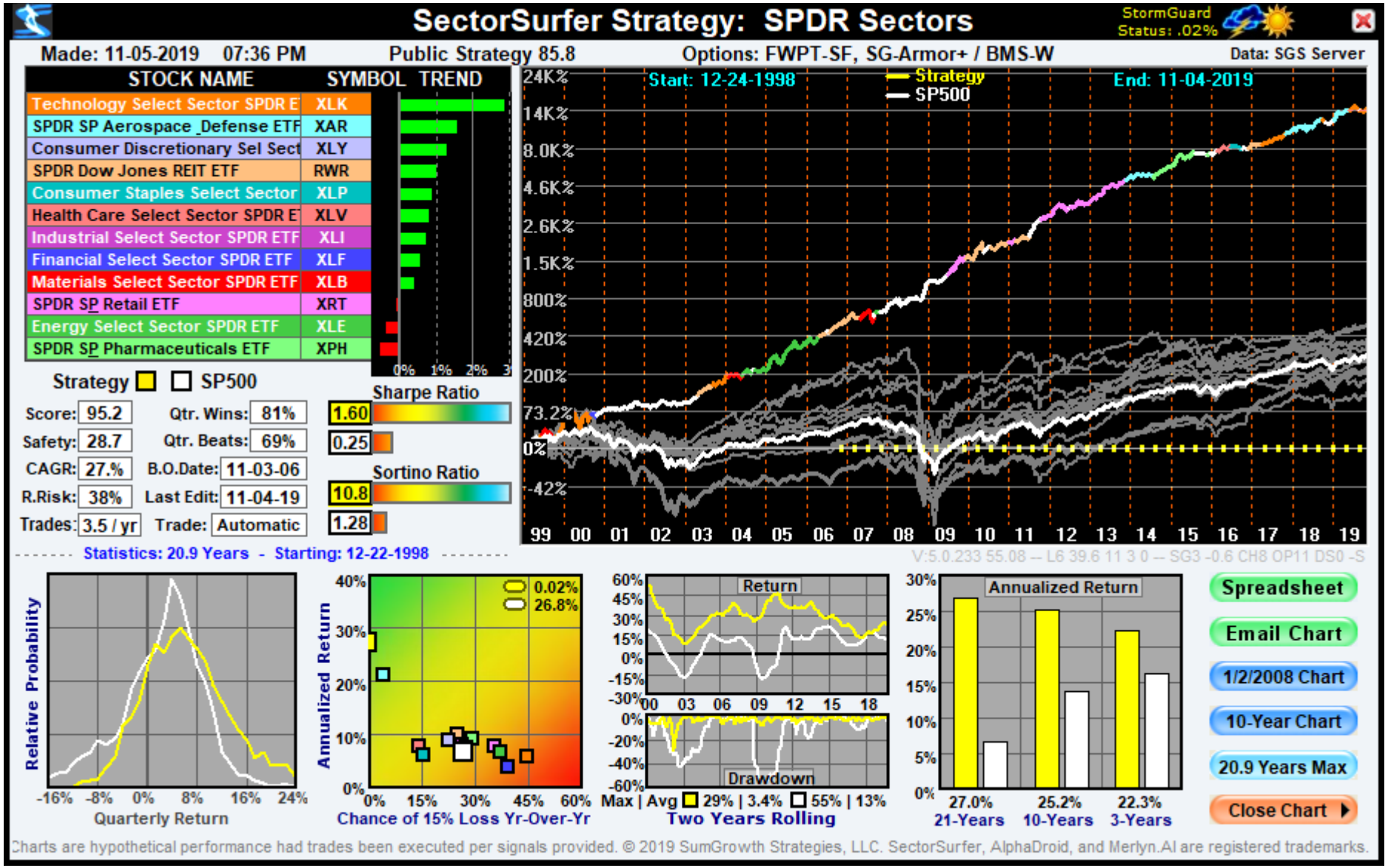
FWPT DEMA Strategy w/ AG-Armor to BND



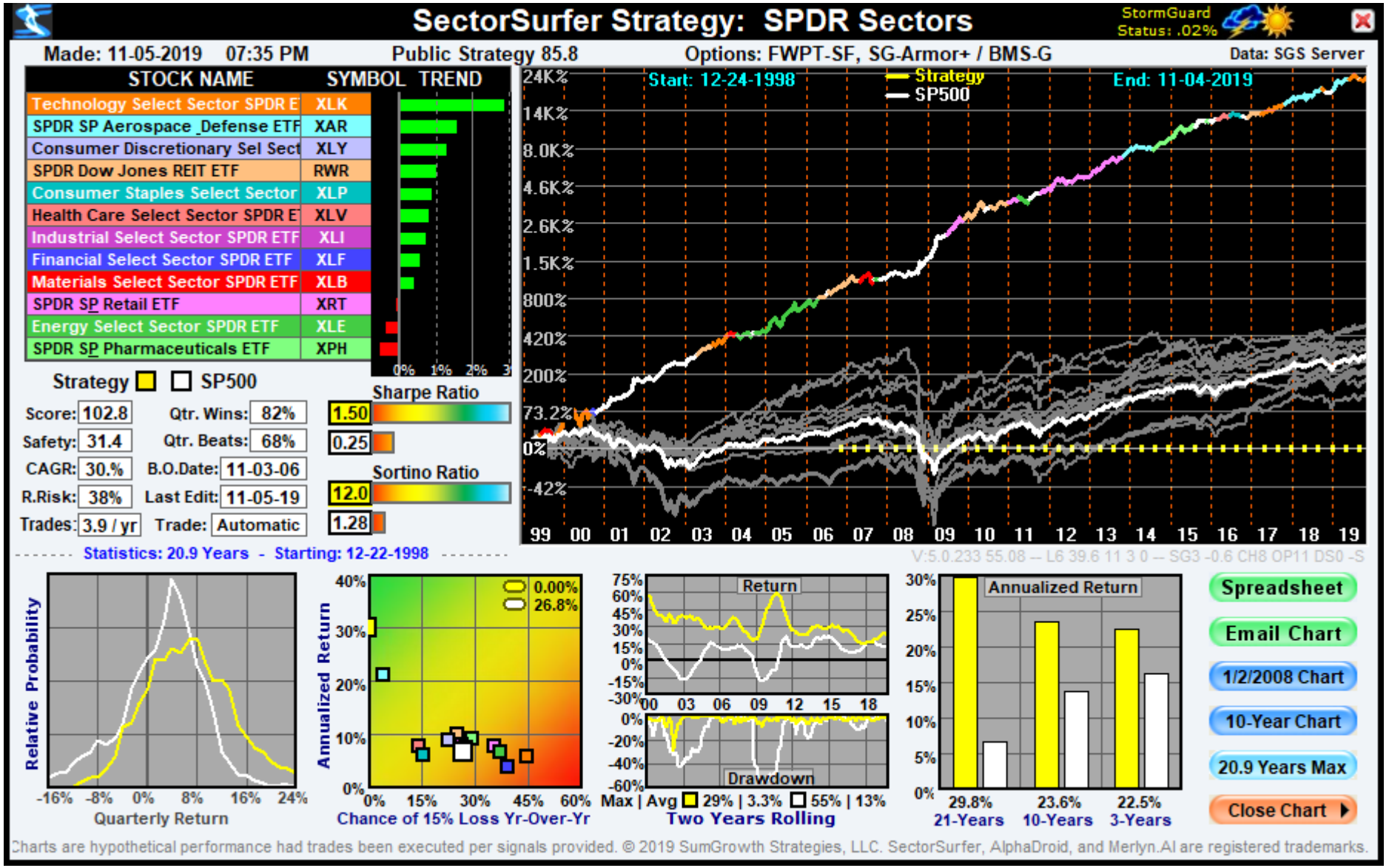
FWPT DEMA Strategy w/ AG-Armor to TLH



FWPT DEMA Strategy w/ AG-Armor to BMS-W



FWPT DEMA Strategy w/ AG-Armor to BMS-G



Eugene Fama
Nobel Prize, 2013

J. H. Van Vleck
Nobel Prize, 1977

Claude Shannon
National Medal
of Science, 1966

Samuel H. Christie
Royal Society 1836

Daniel Kahneman
Nobel Prize, 2002

Amos Tversky
Stanford University

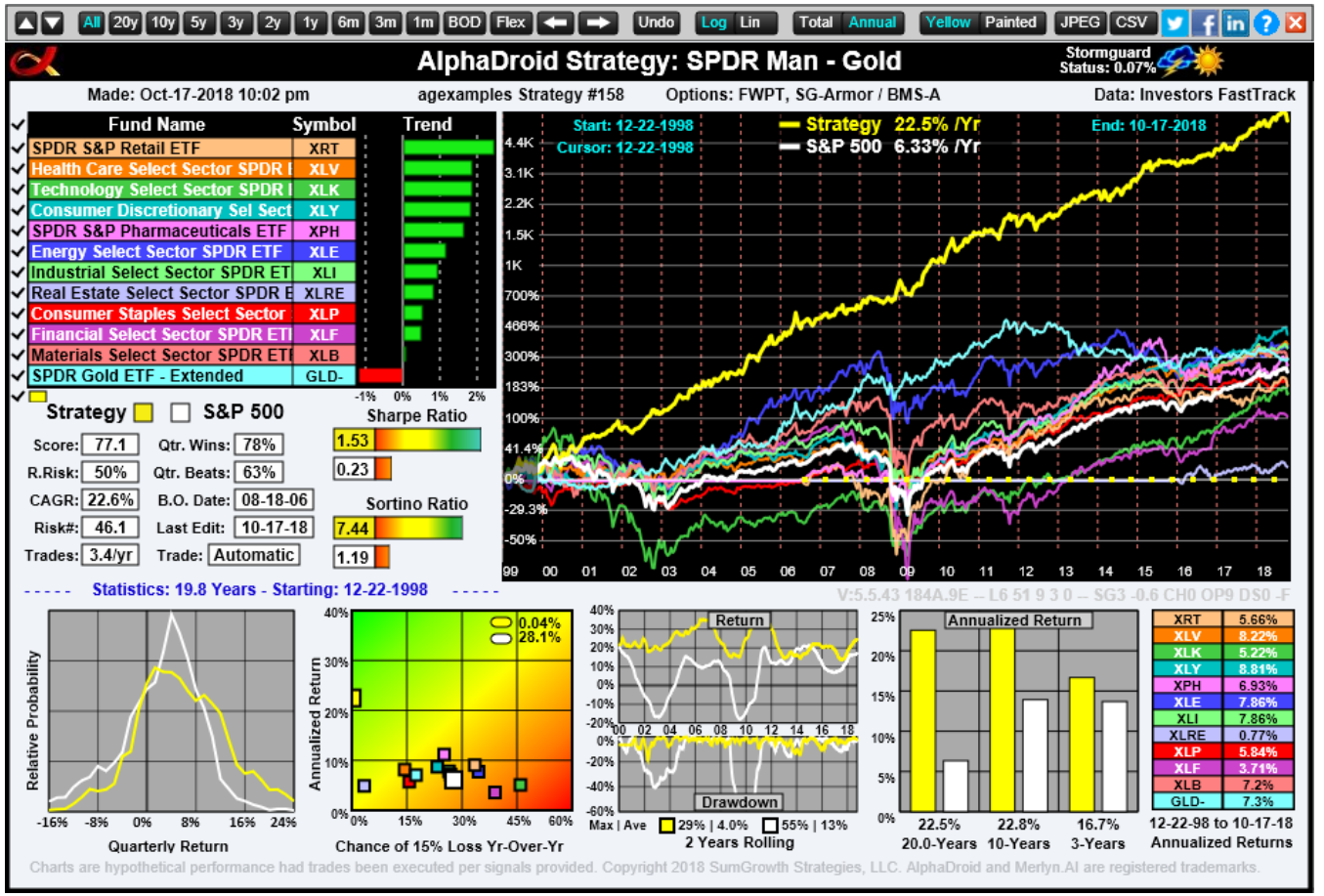
Narasimhan Jegadeesh
Emory University

Sheridan Titman
U. of Texas, Austin

These Guys

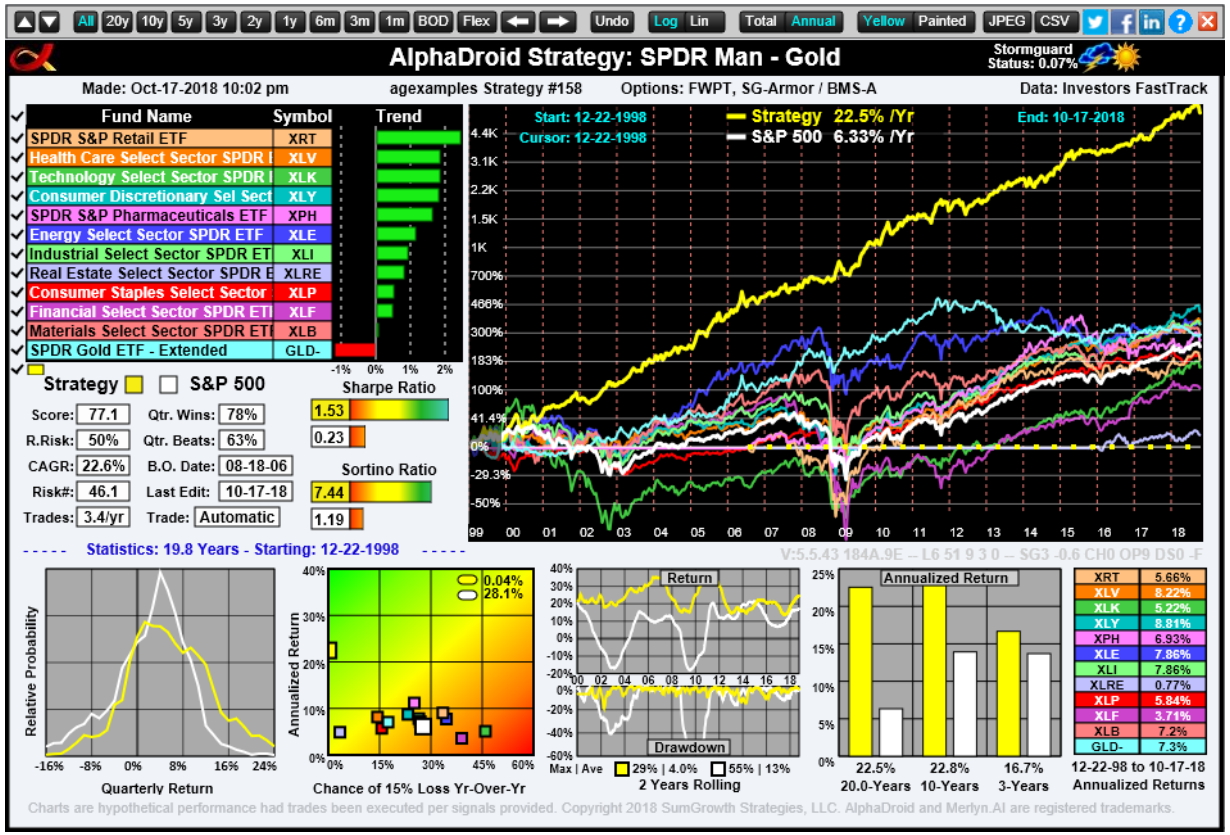
Got us Here

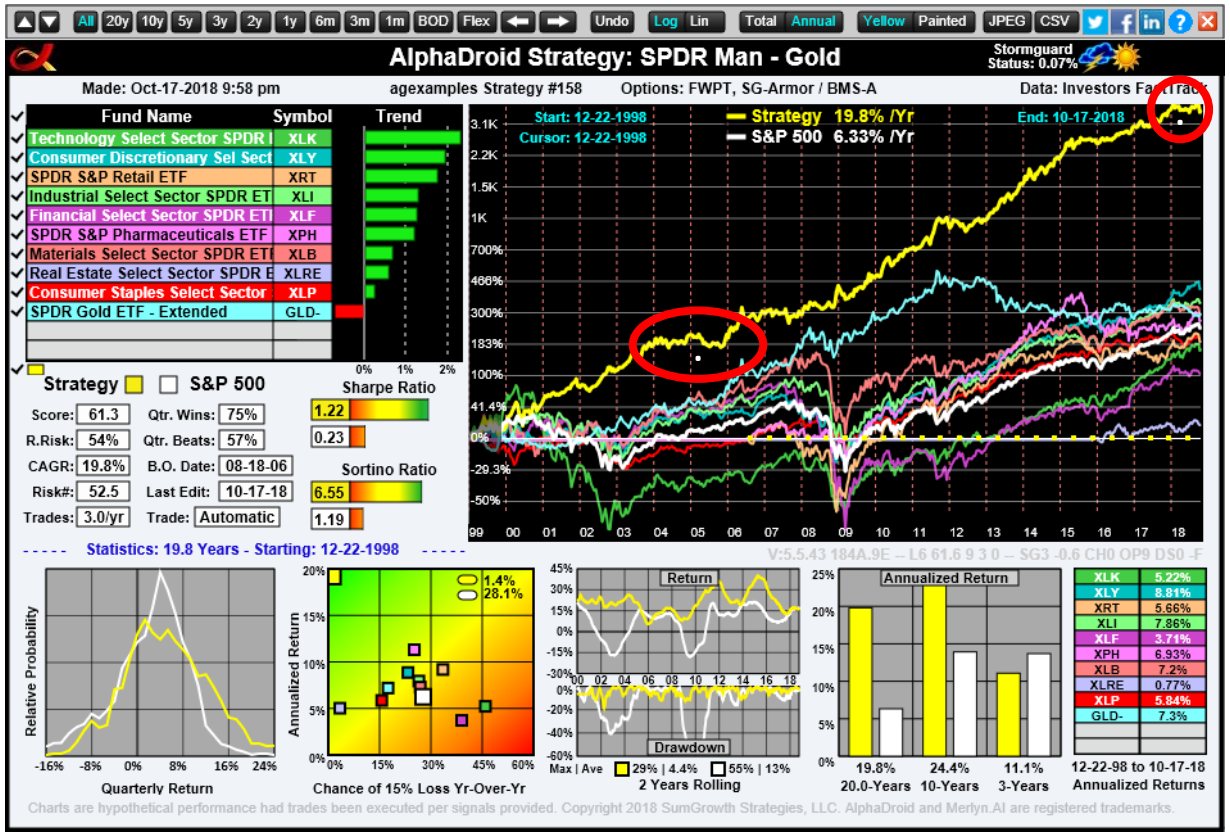
Is There More?



What About Selection Bias?

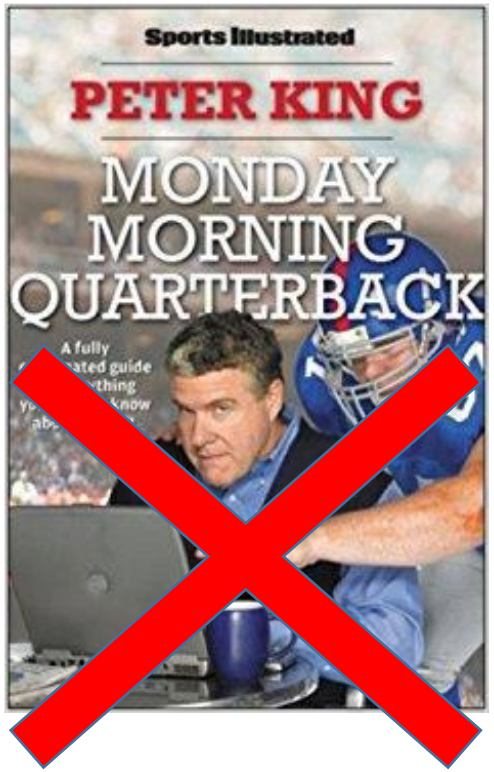
Who Needs
XLV-Healthcare and XLE-Energy?



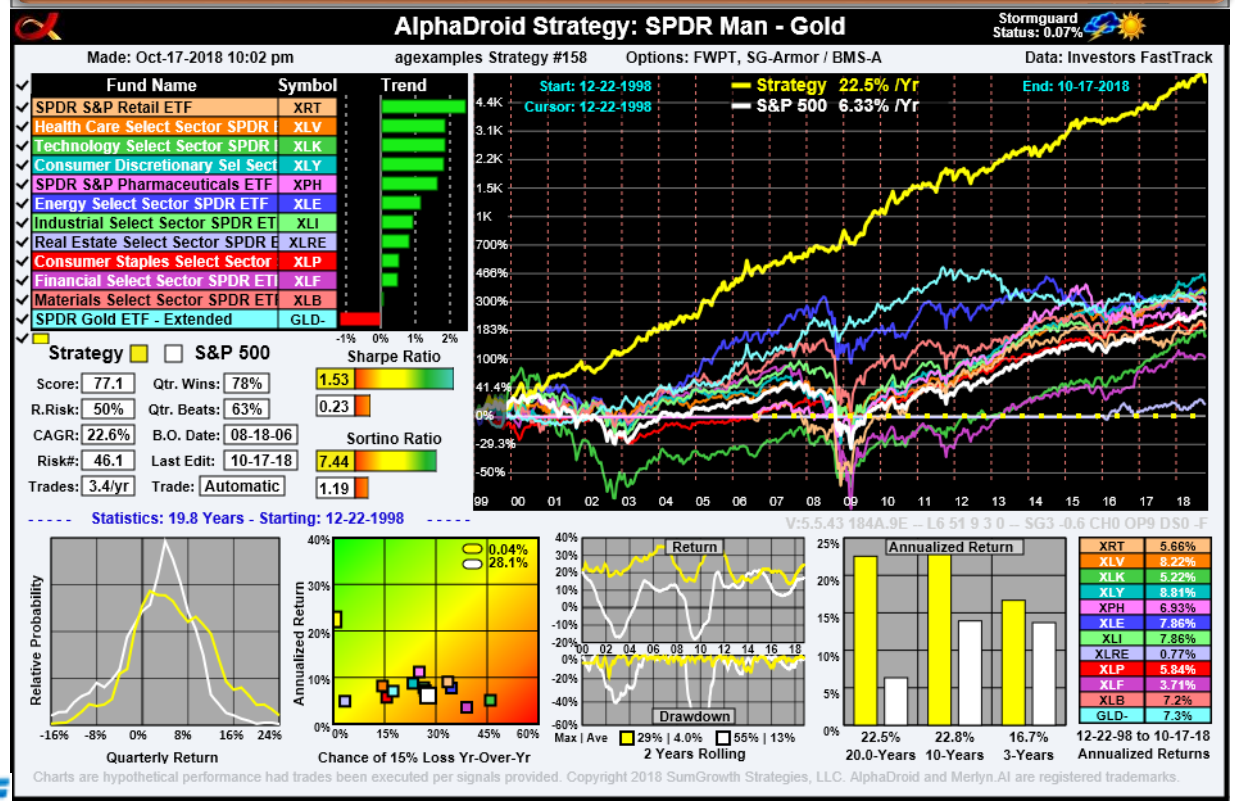


Merlyn.AI

Is a Genetic Algorithm
Layered on Top of a Strategy



Genetic Algorithm on Top



Why?

To Evolve its Set of Funds Each Month

Why?

To Remove Hindsight Selection Bias

Artificial Intelligence Algorithms

Types of machine learning algorithms[edit]
•Almeida–Pineda recurrent backpropagation
•ALOPEX
•Backpropagation
•Bootstrap aggregating
•CN2 algorithm
•Constructing skill trees
•Dehaene–Changeux model
•Diffusion map
•Dominance-based rough set approach
•Dynamic time warping
•Error-driven learning
•Evolutionary multimodal optimization
•Expectation–maximization algorithm
•FastICA
•Forward–backward algorithm
•GeneRec
•Genetic Algorithm for Rule Set Production
•Growing self-organizing map
•HEXQ
•Hyper basis function network
•IDistance
•K-nearest neighbors algorithm
•Kernel methods for vector output
•Kernel principal component analysis
•Leabra
•Linde–Buzo–Gray algorithm
•Local outlier factor
•Logic learning machine
•LogitBoost
•Manifold alignment
•Minimum redundancy feature selection
•Mixture of experts
•Multiple kernel learning
•Non-negative matrix factorization
•Online machine learning
•Out-of-bag error
•Prefrontal cortex basal ganglia working memory
•PVLV
•Q-learning
•Quadratic unconstrained binary optimization
•Query-level feature
•Quickprop
•Radial basis function network
•Randomized weighted majority algorithm
•Reinforcement learning
•Repeated incremental pruning to produce error reduction (RIPPER)
•Rprop
•Rule-based machine learning
•Skill chaining
•Sparse PCA
•State–action–reward–state–action
•Stochastic gradient descent
•Structured kNN
•T-distributed stochastic neighbor embedding
•Temporal difference learning
•Wake-sleep algorithm
•Weighted majority algorithm (machine l

Supervised learning
•AODE
•Artificial neural network
•Association rule learning algorithms
  • Apriori algorithm
  • Eclat algorithm
•Case-based reasoning
•Gaussian process regression
•Gene expression programming
•Group method of data handling (GMDH)
•Inductive logic programming
•Instance-based learning
•Lazy learning
•Learning Automata
•Learning Vector Quantization
•Logistic Model Tree
•Minimum message length (decision trees, decision graphs, etc.)
  • Nearest Neighbor Algorithm
  • Analogical modeling
•Probably approximately correct learning (PAC) learning
•Ripple down rules, a knowledge acquisition methodology
•Symbolic machine learning algorithms
•Support vector machines
•Random Forests
•Ensembles of classifiers
  • Bootstrap aggregating (bagging)
  • Boosting (meta-algorithm)
•Ordinal classification
•Information fuzzy networks (IFN)

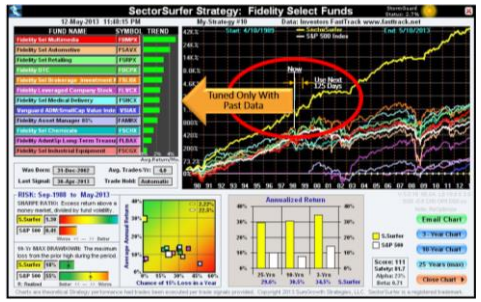
Bayesian[edit]
Bayesian statistics
•Bayesian knowledge base
•Naive Bayes
•Gaussian Naive Bayes
•Multinomial Naive Bayes
•Averaged One-Dependence Estimators (AODE)
•Bayesian Belief Network (BBN)
•Bayesian Network (BN)
Decision tree algorithms[edit]
Decision tree algorithm
•Decision tree
•Classification and regression tree (CART)
•Iterative Dichotomiser 3 (ID3)
•C4.5 algorithm
•C5.0 algorithm
•Chi-squared Automatic Interaction Detection (CHAID)
•Decision stump
•Conditional decision tree
•ID3 algorithm
•Random forest
•SLIQ
Linear classifier[edit]
Linear classifier
•Fisher's linear discriminant
•Linear regression
•Logistic regression
•Multinomial logistic regression
•Naive Bayes classifier
•Perceptron
•Support vector machine
Unsupervised learning[edit]
Unsupervised learning
•Expectation-maximization algorithm
•Vector Quantization
•Generative topographic map
•Information bottleneck method
Artificial neural networks[edit]
Artificial neural network
•Feedforward neural network Logic learning machine
•Self-organizing map
Association rule learning[edit]
Association rule learning
•Apriori algorithm
•Eclat algorithm

Semi-supervised learning[edit]
Semi-supervised learning
•Active learning – special case of semi-supervised learning
Generative models
•Low-density separation
•Graph-based methods
•Co-training
•Transduction
Deep learning[edit]
Deep learning
•Deep belief networks
•Deep Boltzmann machines
•Deep Convolutional neural networks
•Deep Recurrent neural networks
•Hierarchical temporal memory
•Generative Adversarial Networks
•Deep Boltzmann Machine (DBM)
•Stacked Auto-Encoders
Other machine learning methods and problems[edit]
•Anomaly detection
•Association rules
•Bias-variance dilemma
•Classification
  • Multi-label classification
•Clustering
•Data Pre-processing
•Empirical risk minimization
•Feature engineering
•Feature learning
•Learning to rank
•Occam learning
•Online machine learning
•PAC learning
•Regression
•Reinforcement Learning
•Semi-supervised learning
•Statistical learning
•Structured prediction
  • Graphical models
  • Bayesian network
  • Conditional random field (CRF)
  • Hidden Markov model (HMM)
•Unsupervised learning
•VC theory

How SumGrowth Uses AI

To Perceive the environment and take action to maximize success.

FWPT: Forward Walk Progressive Tuning

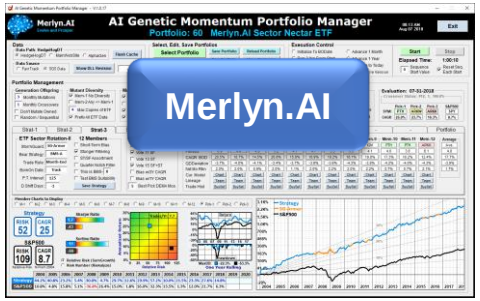


Adaptively changing the algorithm based on the past character of the data. Walks through out-of-sample data for its buy/sell decisions.

StormGuard - Armor

Employs Fuzzy Logic to evaluate a composite of 12 measures of the market's character to determine current investment safety.

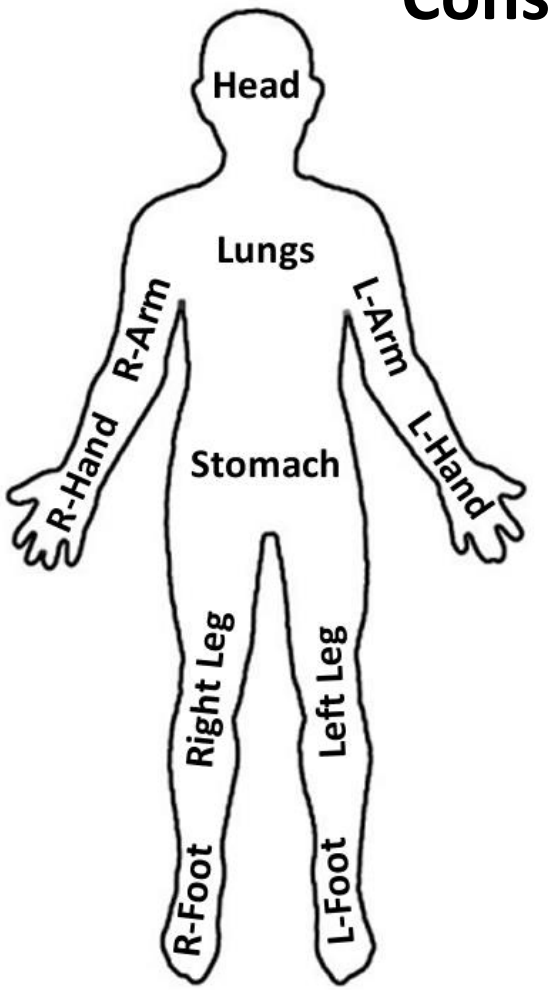
FWPP: Forward Walk Progressive Picking



Uses a Genetic Algorithm to evolve the candidate funds in a population of momentum strategies to eradicate remnants of hindsight selection bias.

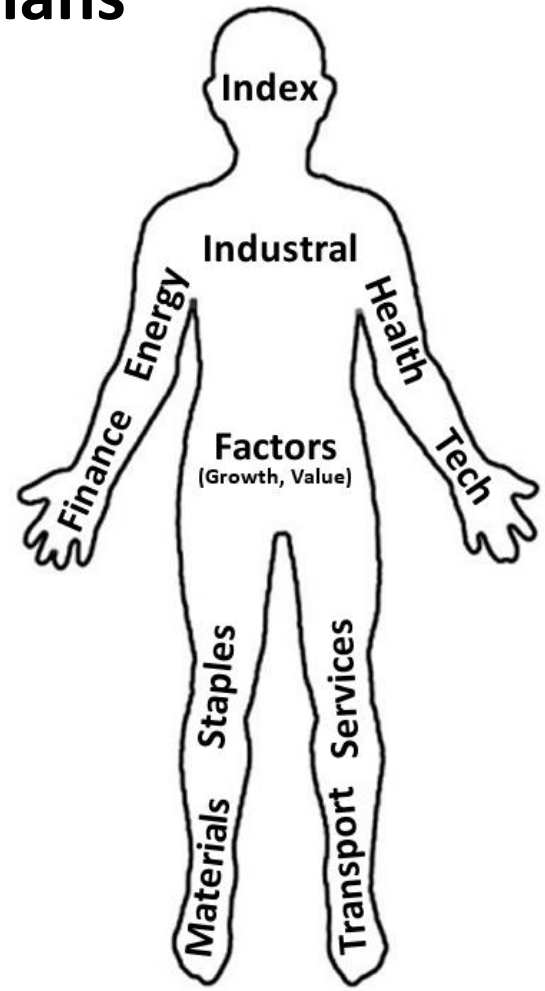
How Our Genetic Algorithm Works

Consider This Analogy to Humans



Human

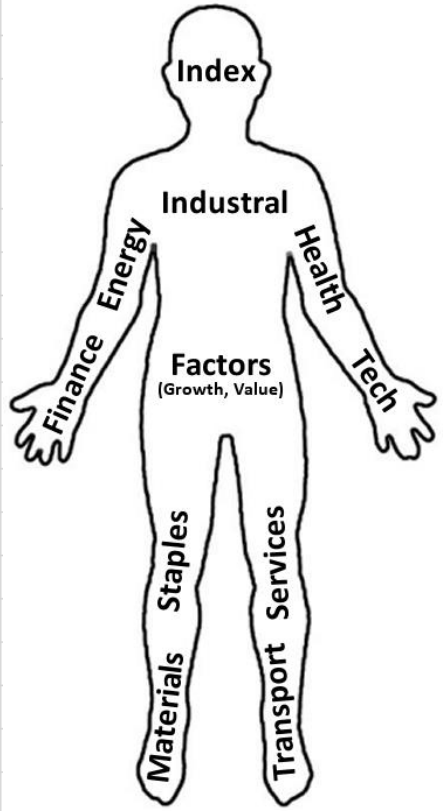
Genetic Evolution:
Mutation
Crossover



Strategy

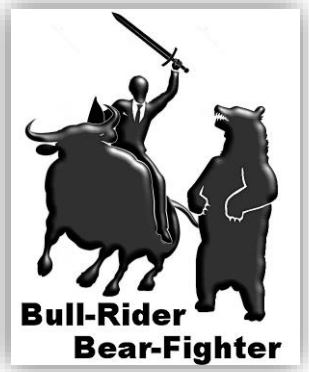
What are the Gene Mutations

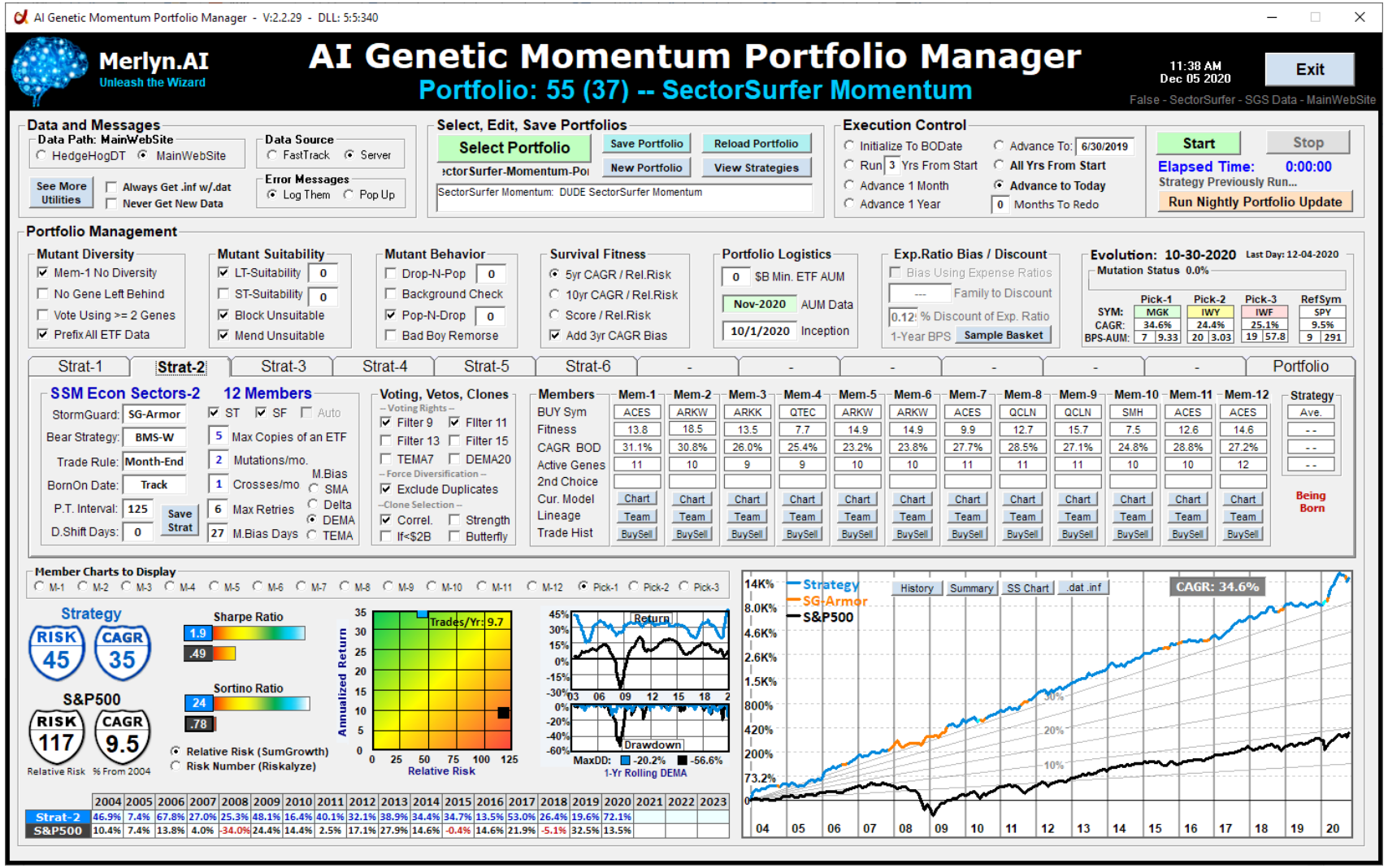
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Name	ETF Sector Rotation-I													
2	Description	SG-A, BMS-A, DSD-1, Mutation and Mating. Population of 10 Strategies. SOS weighted vote. Gene Categories: Cmd, Mat, Enr, Fin, Ind, Cns, Res, Hea, Tk1,													
3	Members	10													
4	StGuard	SG-Armor													
5	BMS	BMS-A													
6	Trade	Month-End													
7	BOD	Track													
8	PT-Int	125													
9	DSDays	-1													
10	S.Filt	0													
11	S.Trends	0													
12	BothFilt	0													
13	QtrNotch	0													
14	Materials	XLB,IYM,VAW,RTM,IGE													
15	Energy	XLE,IYE,VDE,FXN,FENY,RYE													
16	Financial	XLF,IYG,IYF,VFH,FNCL,KBWB,KBWR,FXO,KIE,KRE,KBE,RYF,IAT,IAK,IAI													
17	Industrial	XLI,DIA,IYT,IYJ,ITA,VIS,FXR,XAR,PPA,XTN,RGI													
18	Staples	XLP,VDC,IYK,RHS,FXG,FSTA,RCD,PBJ													
19	Retail/Discr	XLY,IYC,RTH,XRT,PMR,VCR,FDIS,FXD,IBUY,IPAY,FONE,GAMR													
20	Healthcare	XLV,IYH,VHT,IHI,FXH,RYH,IHF,XHE,PTH													
21	Bio-Pharma	PPH,BBH,PJP,IBB,XBI,FBT,IHE,XPH													
22	Technology	XLK,IYW,RYT,IGV,VGT,FXL,ROBO,ARKK,ARKW													
23	Semi-Tech	QQQ,IGM,IGN,XNTK,SMH,XSD,PSI,XT,XNTK,QTEC,FTEC,SNSR													
24	Factors	IVV,RSP,EQWS,GURU,EPS,EZM,CSD,MNA,DGRO,DGRW,FVD,FDL,HDV,PFM,NOBL,QDF,VIG,RDVY,SPYD,SDY,DTD,MMTM,MTUM,BEMO,FDMO,PDP													
25	Stylebox	SPY,MDY,SPYG,MDYG,SPYV,MDYV,IJH,IJJ,IJK,IVE,IVV,IVW,IJR,IJS,IJT,IWL,IWX,IWY,OEF,SPTM,RSP,RPG,FEX,FTA,FTC,FNK,FNX,FNY													
26															



All of our Published Indexes Employ

Merlyn.AI Genetic Algorithms





Model Hypothetical Performance

Bull-Rider Bear-Fighter Portfolio

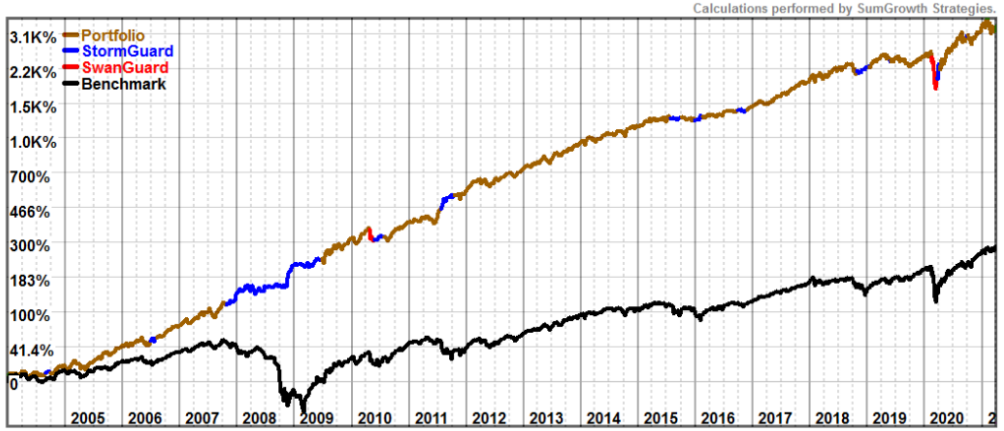
Hypothetical Portfolio Performance

- **Portfolio Inception Date: 09-01-2019** When the portfolio design was completed and available.
- **Forward Walk Starting: 01-02-2004** Backtesting ends. Walk through out-of-sample data begins.
- **Bear Market Strategy: BMS-I,W** Invoked by StormGuard-Armor. Selects only safe harbor funds.
- **Benchmark Index: B8020** Based on suitable Fidelity Asset Manager target allocation mutual funds.

	RISK	CAGR	SHARPE
Portfolio	31.9	22.7%	1.75
Benchmark	71.1	7.9%	0.36

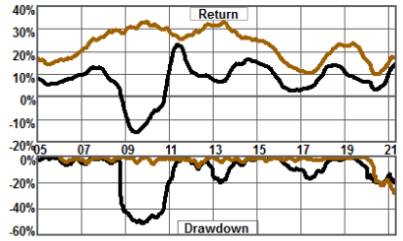
Note: Above statistics are measured from 6/1/2004. Calculations performed by SumGrowth Strategies.

RISK 32 Riskalyze | Merlyn.AI Apr 14, 2021 | CAGR 23 Percent



Underlying Strategies	Weight
1. Bonds BRBF-a	10%
2. Bonds BRBF-b	10%
3. StyleMix BRBF	10%
4. Factors BRBF	10%
5. Regions BRBF	10%
6. Countries BRBF	15%
7. Sectors BRBF-a	20%
8. Sectors BRBF-b	15%

Two Years Rolling



Annualized

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bull-Rider Bear-Fighter	27.9%	19.1%	35.1%	23.7%	32.7%	17.1%	7.5%	12.3%	28.6%	16.5%	11.2%	29.9%
B8020 Benchmark for 80:20	37.7%	16.3%	-5.3%	15.3%	23.5%	5.8%	-0.6%	7.3%	21.1%	-8.7%	25.1%	18.7%

YTD	1-Yr	3-Yr	5-Yr	10-Yr	17.3-Yr
4.0%	47.2%	17.8%	19.2%	21.2%	22.7%
7.0%	44.8%	12.9%	13.3%	9.8%	7.9%

Hypothetical portfolio model performance assumes trade signals provided are executed at the close of the subsequent market day. Past performance does not guarantee future performance. Copyright 2021 SumGrowth Strategies, LLC all rights reserved.

WIZ Index
Bull-Rider Bear-Fighter Index

https://maiindexes.com/wiz-index

SectorSurfer Momentum Portfolio

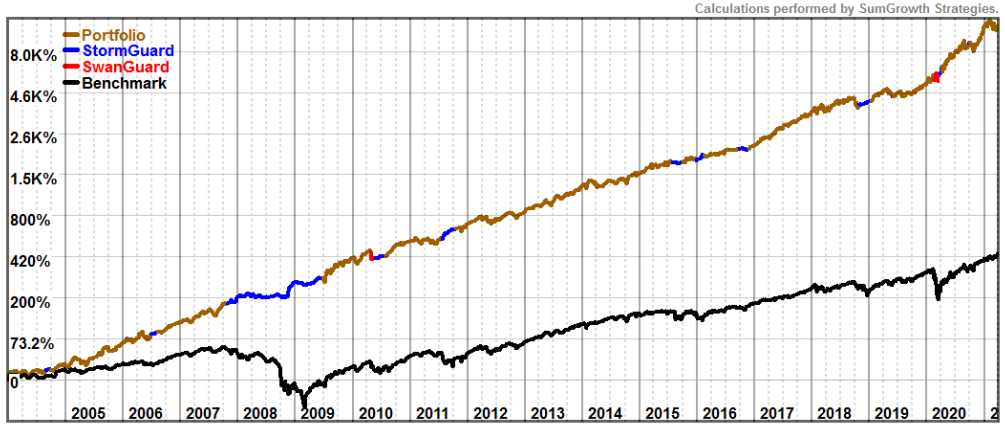
Hypothetical Portfolio Performance

- **Portfolio Inception Date: 11-01-2020** When the portfolio design was completed and available.
- **Forward Walk Starting: 01-02-2004** Backtesting ends. Walk through out-of-sample data begins.
- **Bear Market Strategy: BMS-W,Y** Invoked by StormGuard-Armor. Selects only safe harbor funds.
- **Benchmark: S&P500 Index** Market-cap-weighted index of 500 largest US publicly traded companies.

	RISK	CAGR	SHARPE
Portfolio	25.8	31.7%	1.65
Benchmark	75.6	10.1%	0.50

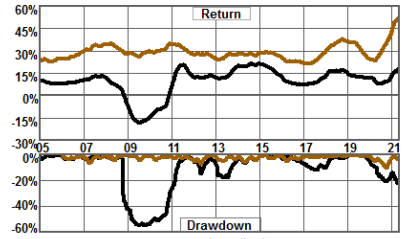
Note: Above statistics are measured from 6/1/2004. Calculations performed by SumGrowth Strategies.

RISK 26 Riskalyze | Merlyn.AI Apr 14, 2021 | CAGR 32 Percent



Underlying Strategies	Weight
1. SSM Econ Sectors-1	20%
2. SSM Econ Sectors-2	20%
3. SSM Econ Sectors-3	15%
4. SSM Econ Sectors-4	15%
5. SSM GeoPolySect-1	15%
6. SSM GeoPolySect-2	15%

Two Years Rolling



Annualized

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
SectorSurfer Momentum	36.2%	25.1%	25.7%	16.4%	44.4%	17.7%	22.6%	17.2%	54.0%	19.3%	25.9%	101.7%
S&P500 Index	26.5%	15.1%	2.1%	16.0%	32.4%	13.7%	1.4%	12.0%	21.8%	-4.4%	31.5%	18.4%

YTD	1-Yr	3-Yr	5-Yr	10-Yr	17.3-Yr
9.9%	75.4%	45.7%	41.2%	33.4%	31.6%
10.3%	47.6%	18.0%	16.9%	14.4%	10.1%

Hypothetical portfolio model performance assumes trade signals provided are executed at the close of the subsequent market day. Past performance does not guarantee future performance. Copyright 2021 SumGrowth Strategies, LLC all rights reserved.

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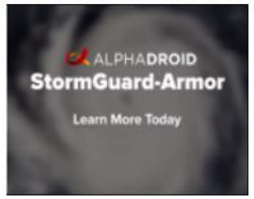

Merlyn.AI Overview - 2 min.

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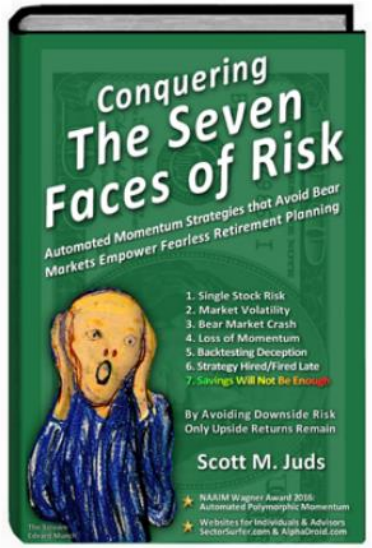
Merlyn.AI Details - 100 min.



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Sector Rotation and Risk Management

Houston AAII Chapter Sat. Nov. 19, 2022