

NAPS - a Systematic Portfolio Seminar - 30th April 2016





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We would like to draw your attention to the following important investment warnings:

- The value of shares and investments and the income derived from them can go down as well as up
- Investors may not get back the amount they invested
- Past performance is not a guide to future performance

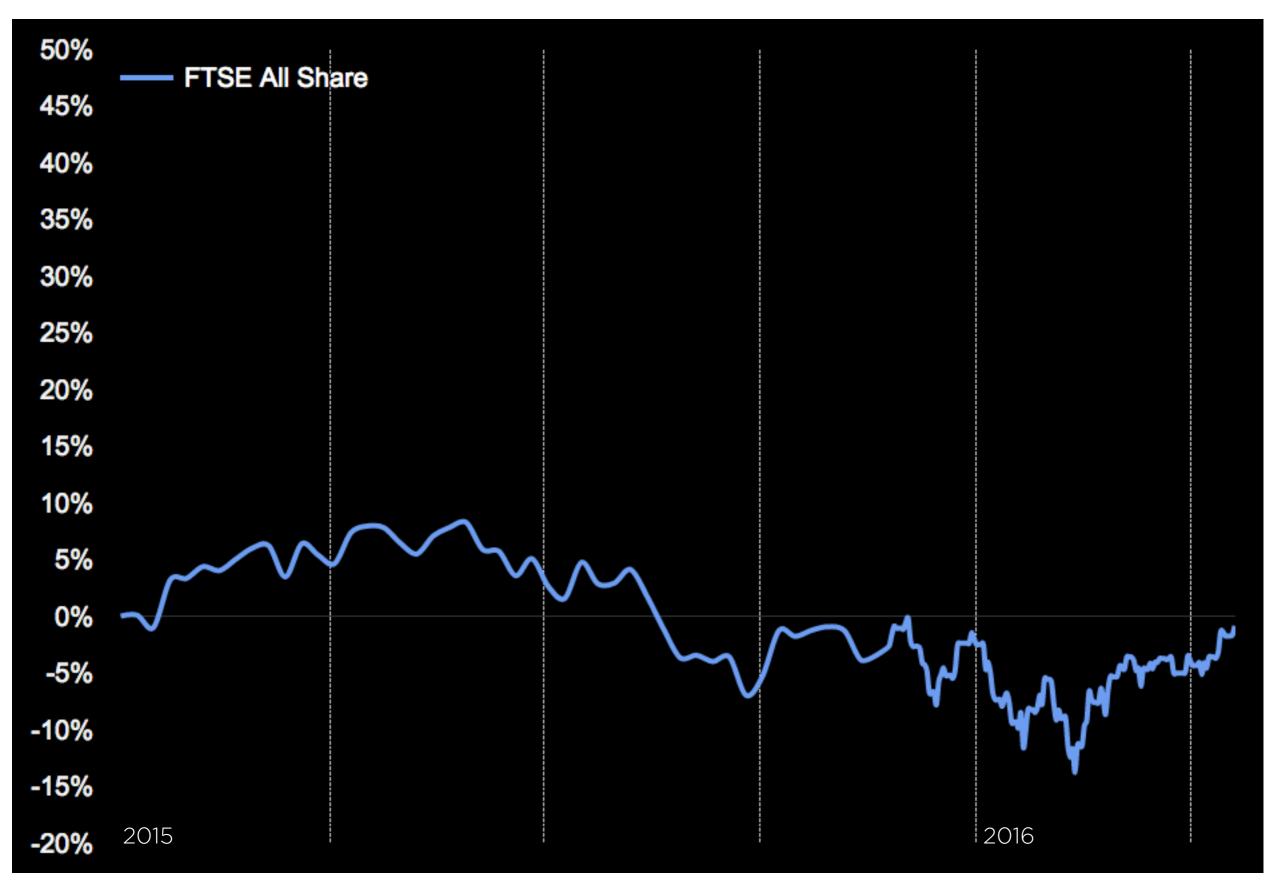
Please note that all data in this document is historic and dated when this document went to print: 30th April 2016

Seminar Agenda

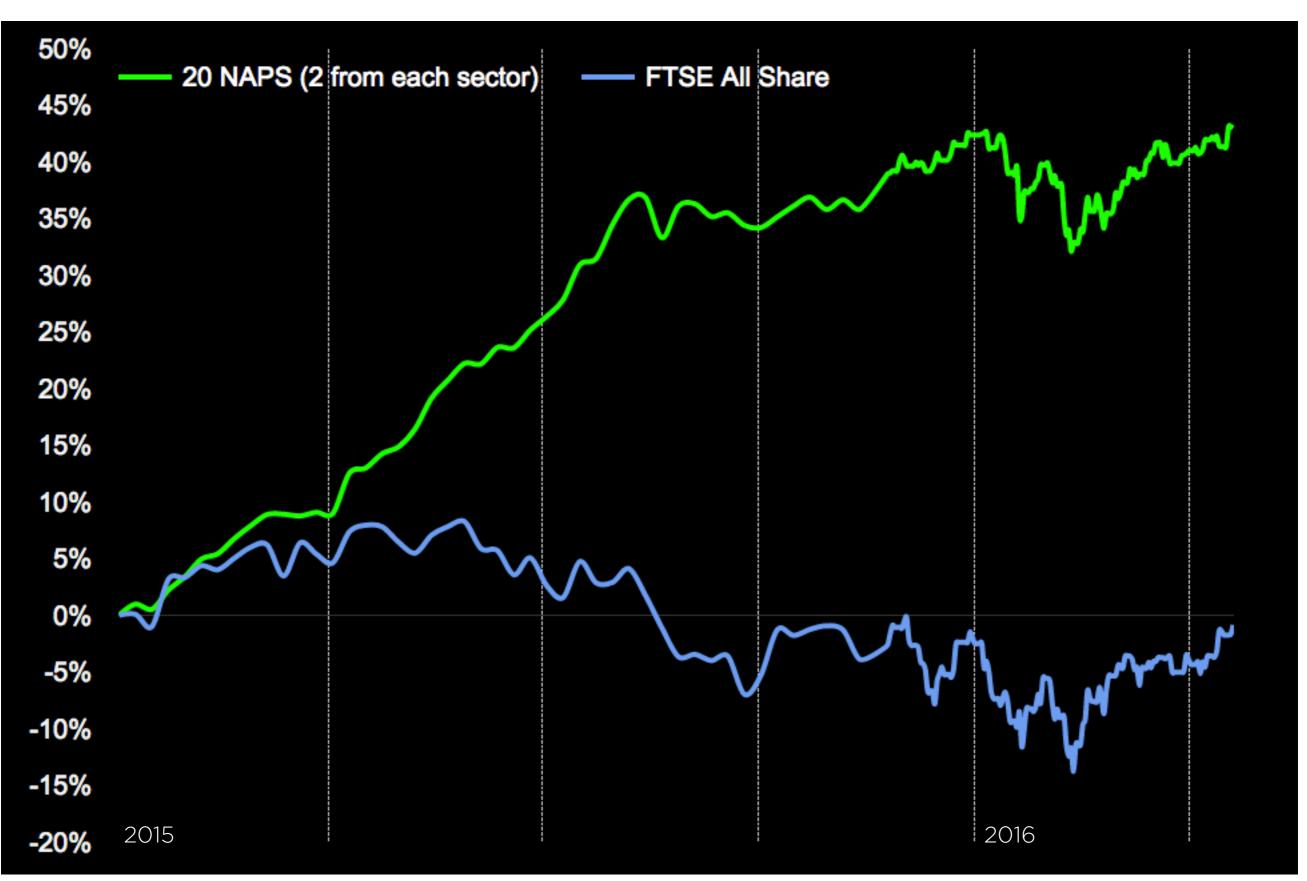
- NAPS Portfolio Performance Review
 - What are the NAPS? Performance YTD, standout winners & losers
 - Why it's gone right ? Philosophy of the StockRanks
- How to construct a StockRanks Portfolio
 - Demonstration using the StockRanks portal, Folios, Screener.
 - Diversification approaches & lessons learned.
- Ongoing portfolio management
 - Sell rules & rebalancing why rebalance at all ? SNAPs portfolio lessons.
- Closing thoughts
 - Why stock pickers often choose the losers from lists of winners. StockRank Stats.
 - Q&A

Portfolio Review of the NAPS

FTSE All Share



New Year NAPs Portfolio



The NAPs Annual StockRanks Selections



A "Nap Hand" is a declaration that you can take all 5 tricks - so it's only ever used when you've got very strong odds.

Card Game "Napoleon"

NAPS 2015 NAPS 2016

stk.pe/naps-2015

stk.pe/naps-2016

What are the NAPs?

A portfolio of shares selected according to the following simple rules.

- Rank by descending StockRank
- Exclude small & hard to trade shares
 - Market Capitalisation > £20m
 - Bid-Ask Spread < 5%
- 2 stocks from each sector

New 2016 Rules

Some additional anti-risk measures brought in in 2016

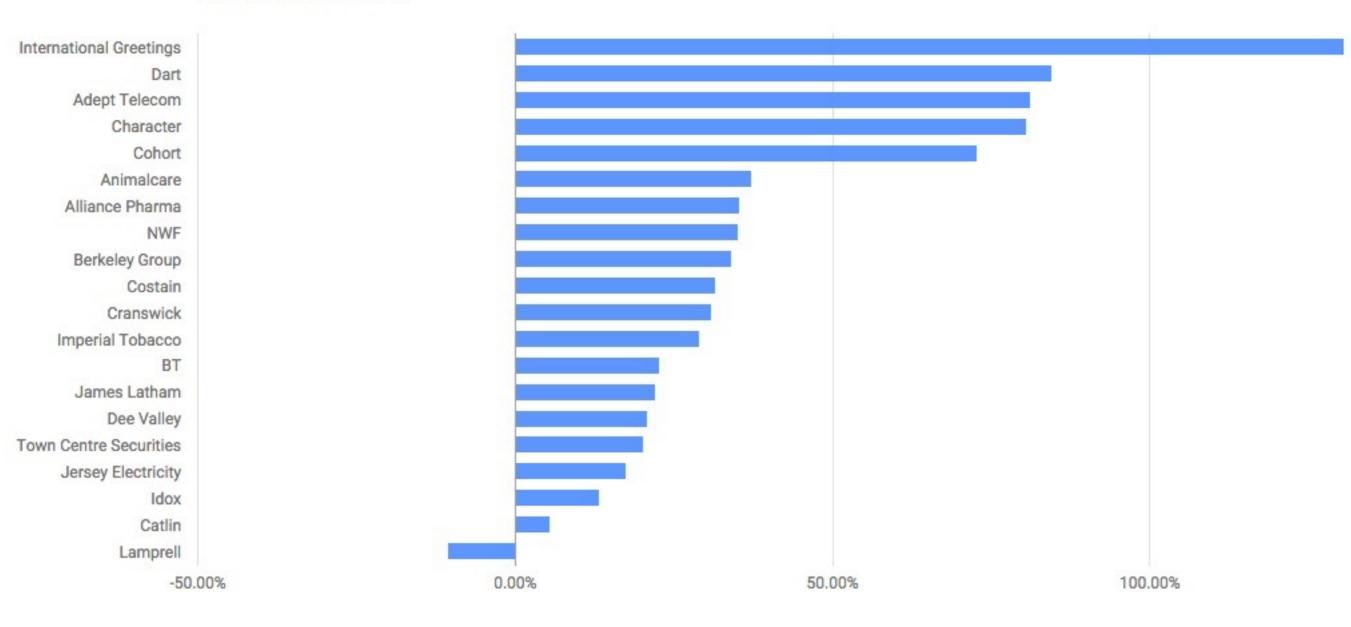
No more than 1 in each industry group

• Size diversification - at least:

- 6 small caps
- 6 mid caps
- 6 large caps
- No Microcaps !

Winners vs Losers 2015

Total Gain % vs. Close

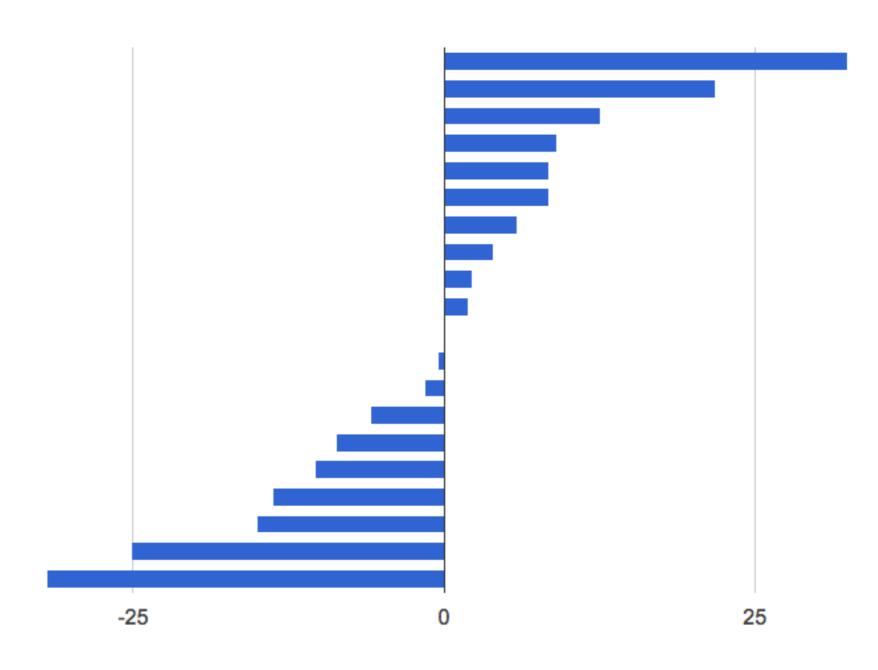


Winners vs Losers 2016*

Total Gain %

Drax H & T J Sainsbury Character GlaxoSmithKline Dart Hilton Food National Grid TT electronics John Wood Castings Manx Telecom Computacenter Alumasc International Greetings Inland Homes Indivior Cambria Automobiles NWF Alternative Networks

-50

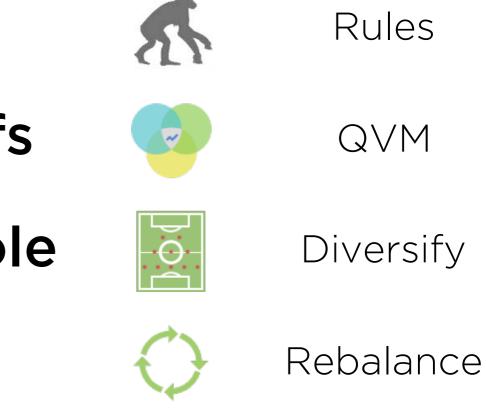


*by April 30th 2016

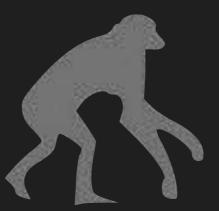
Buildingthe Portfolio

Four Principles for stock market success

- 1. Manage the Monkey
- 2. Align with the Payoffs
- 3. Give every stock a role
- 4. Keep your balance



1. Managing the Monkey Using a rules-based process



"The evidence is clear: quant models usually provide a ceiling (from which we detract performance) rather than a floor (on which we can build performance). We tend to overweight our own opinions relative to those of the models.

James Montier

<u>stk.pe/ode-to-quant</u>



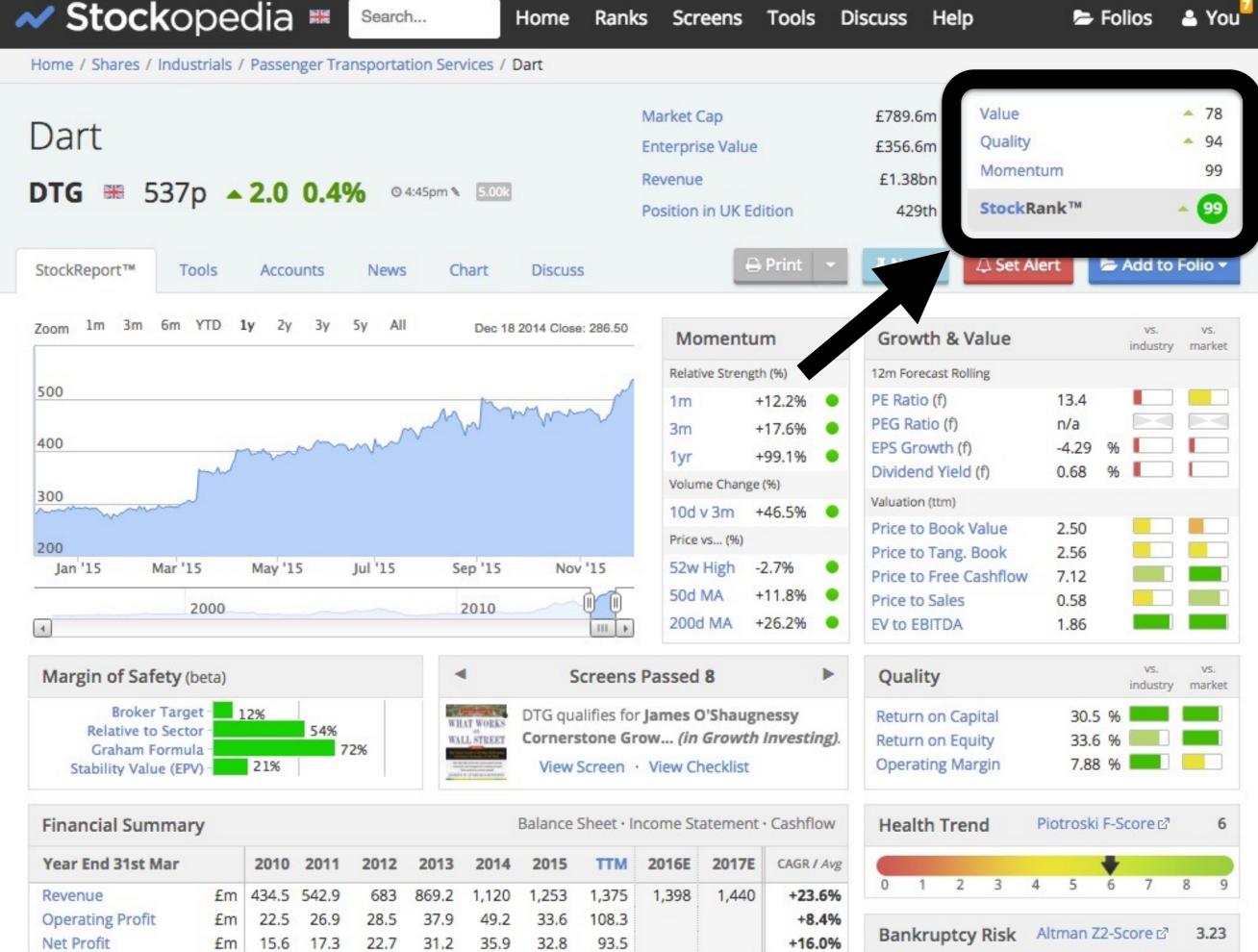
2. Aligning with the Payoffs The StockRanks



Learn more about the **StockRanks**

stk.pe/webinar-stockranks

stk.pe/webinar-stockranks-portal



62.9

15.4

EPS Reported

D

10.6

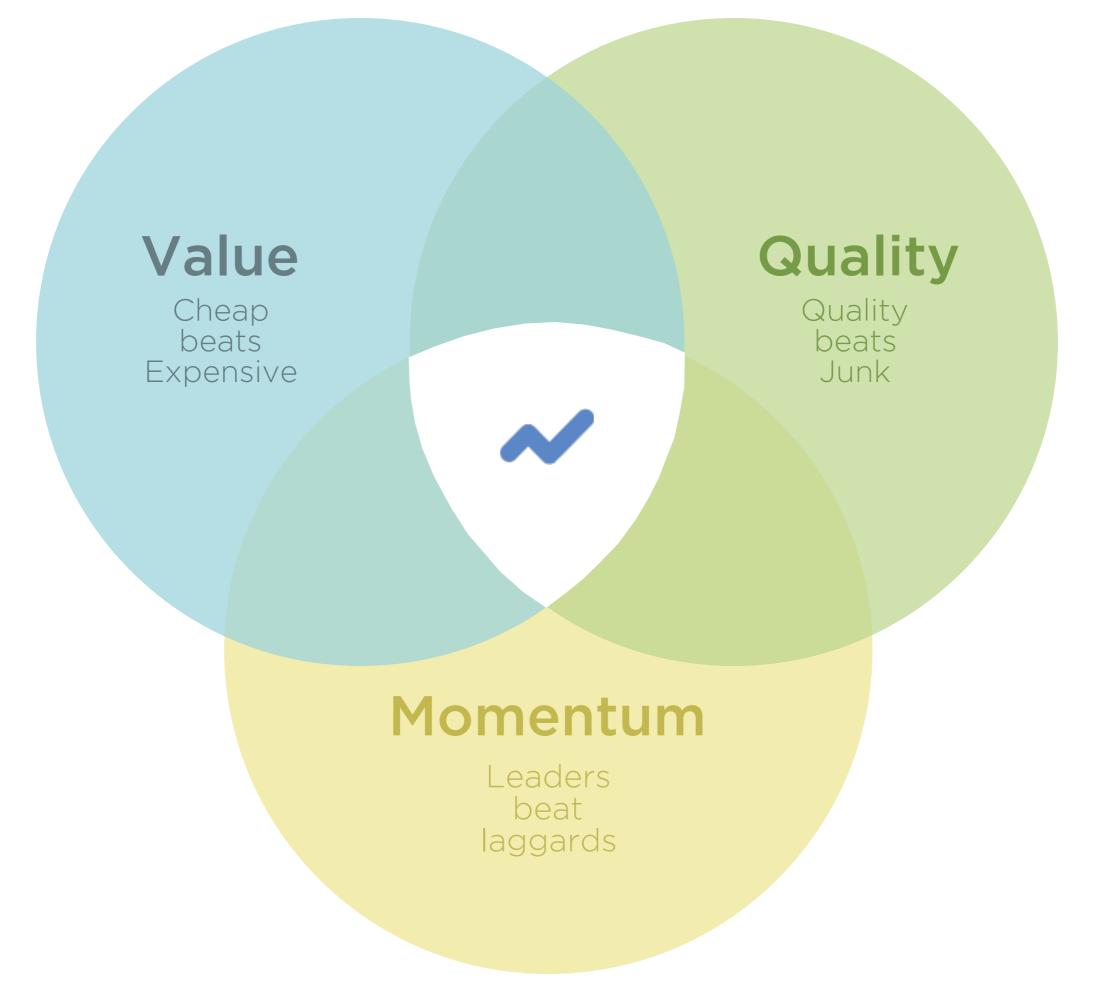
11.8

24.3

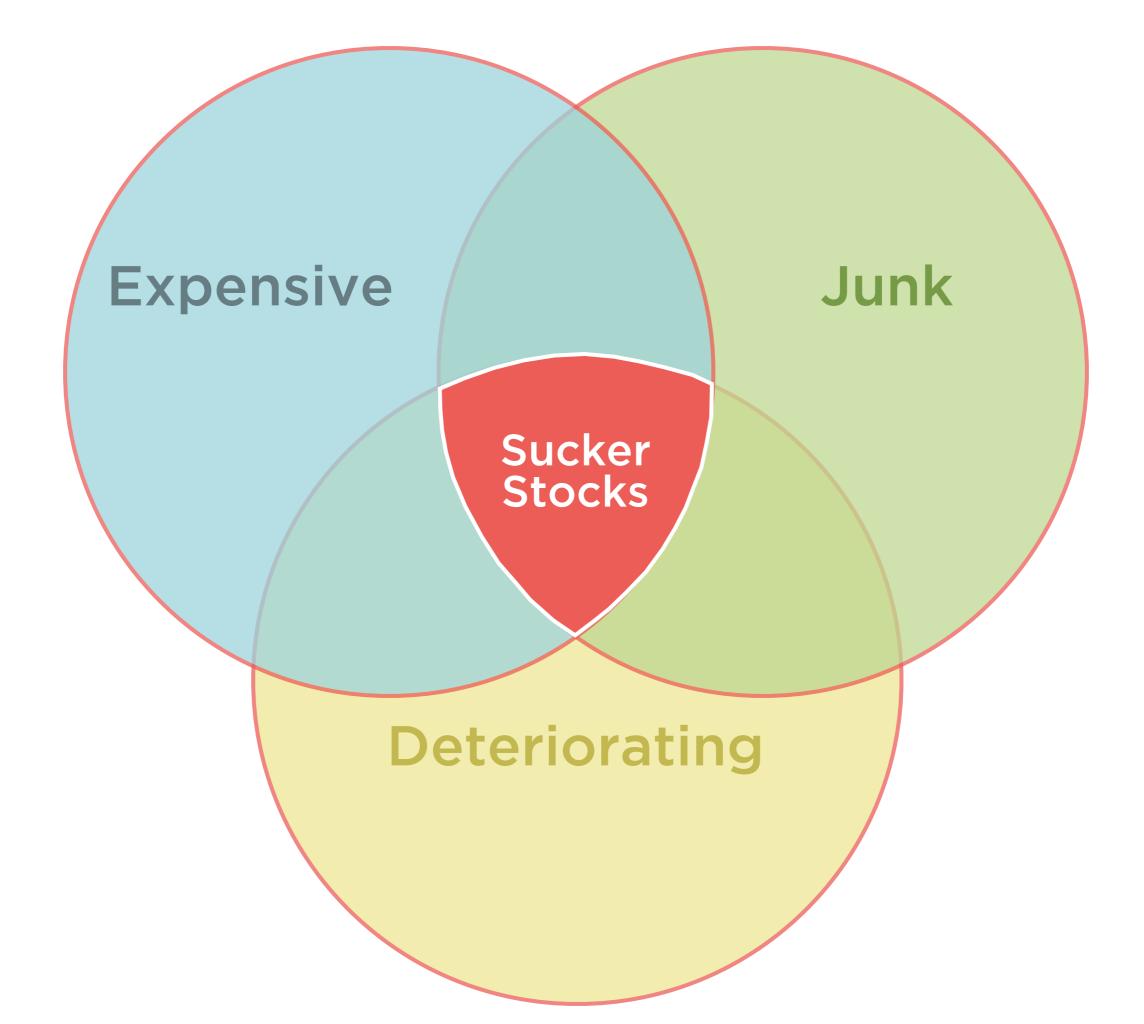
21.4

22.2

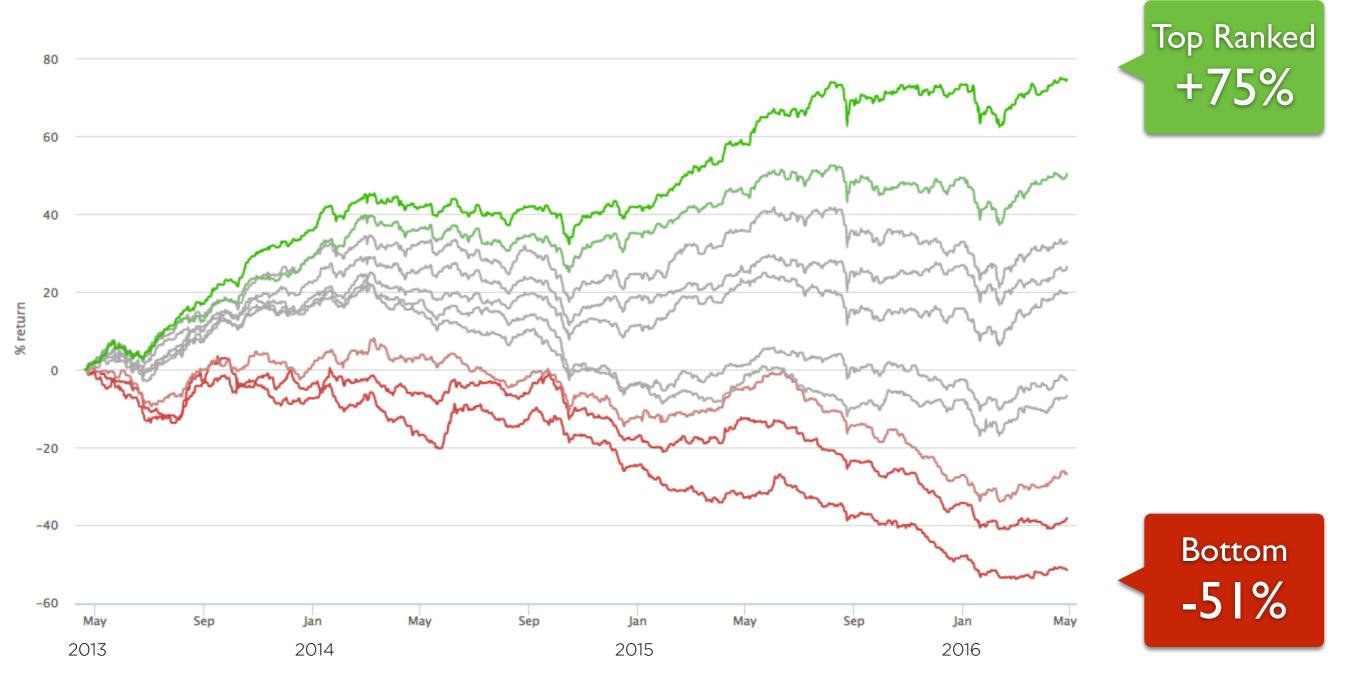
+15.9%





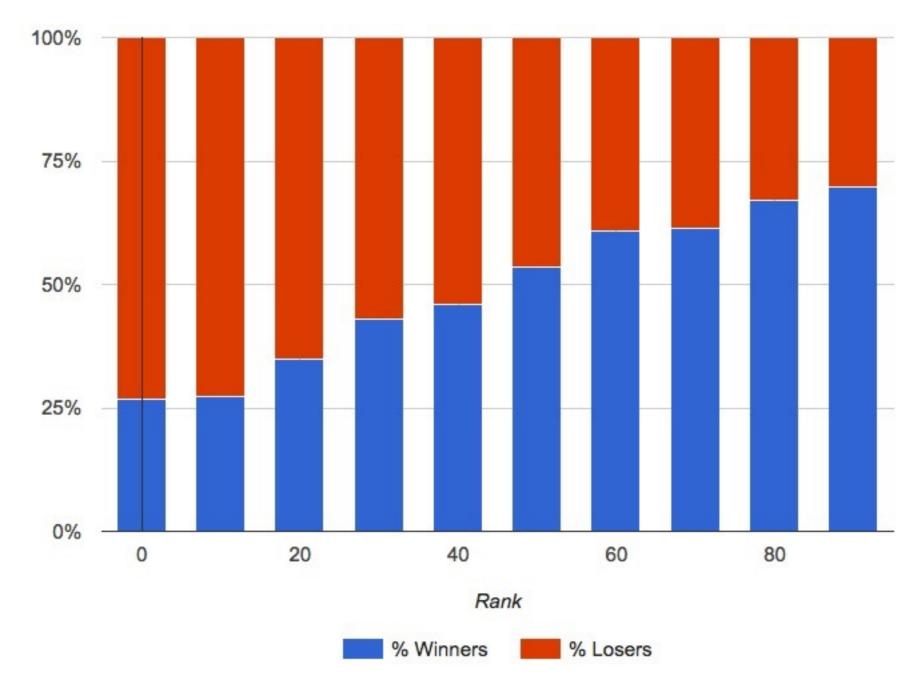


StockRanks Performance



* Based on quarterly rebalanced portfolios of >£10m market capitalisation LSE listed stocks split into deciles according to StockRank

% Hit Rate of picking winners stk.pe/stockrank-odds



Average annual percentage of stocks with positive returns (winners) versus percentage of stocks with negative returns (losers) in each StockRank decile since launch in April 2013 (by Nov 2015).

Why is buying high ranking stocks hard?

Nobody likes buying cheap stocks (problems)

Nobody likes buying good stocks (**boring**)

Nobody likes buying leading stocks (scary)

It's contrary to human nature

3. Give each stock a role On diversification



Diversification 1. How many stocks?

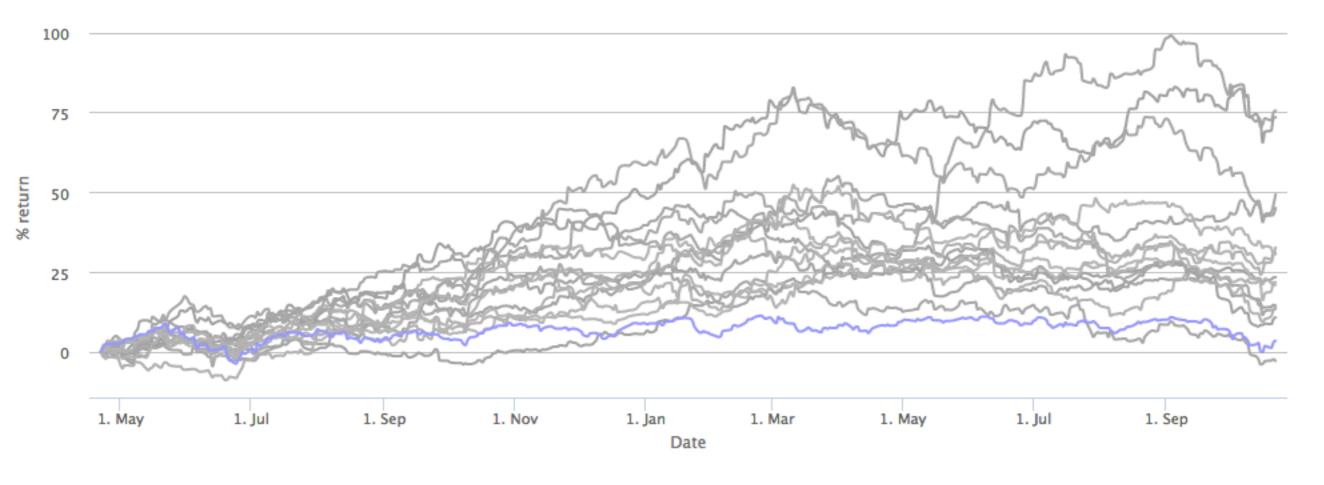
The most dangerous quote in finance?

"Diversification is a hedge for ignorance"

Warren Buffett



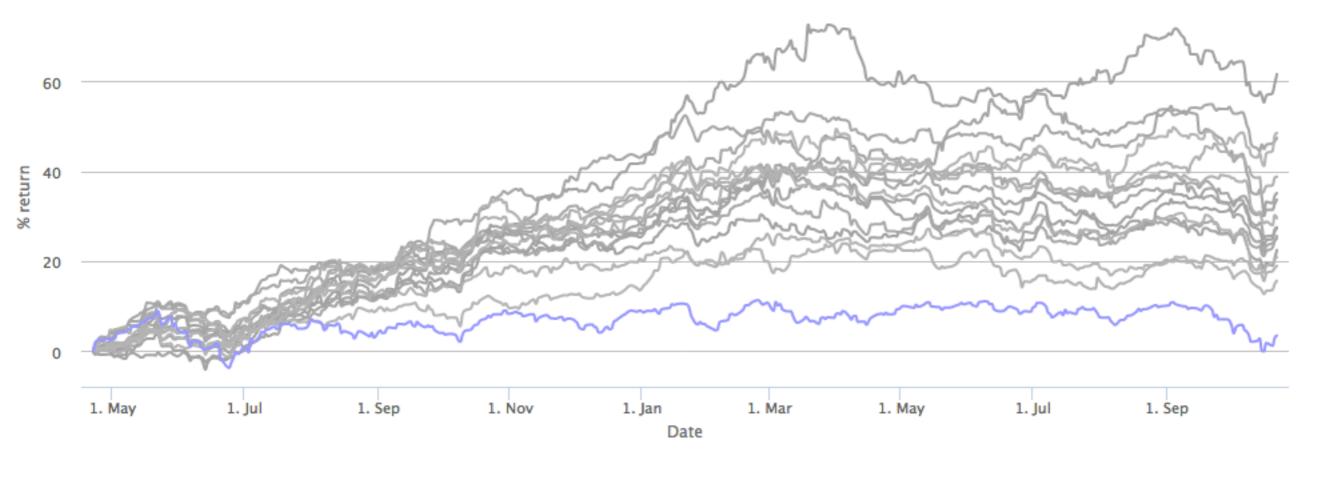
Random 5 stock portfolios Rank 90+



stk.pe/how-many-stocks

*Portfolios of 5 LSE stocks >£10m market cap held since inception.

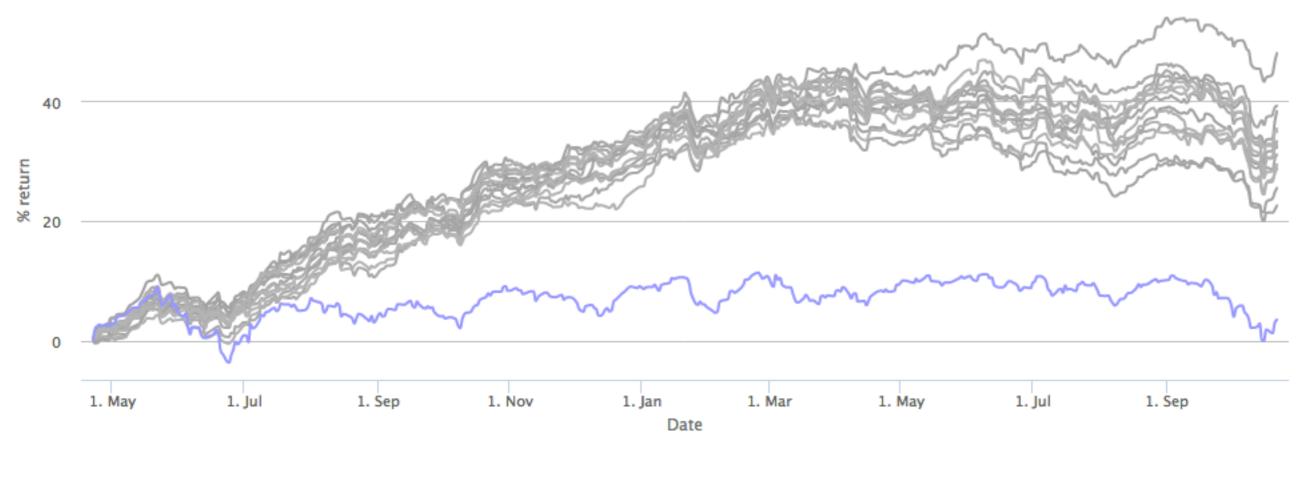
Random 15 stock portfolios Rank 90+



stk.pe/how-many-stocks

*Portfolios of 5 LSE stocks >£10m market cap held since inception.

Random 25 stock portfolios Rank 90+



stk.pe/how-many-stocks

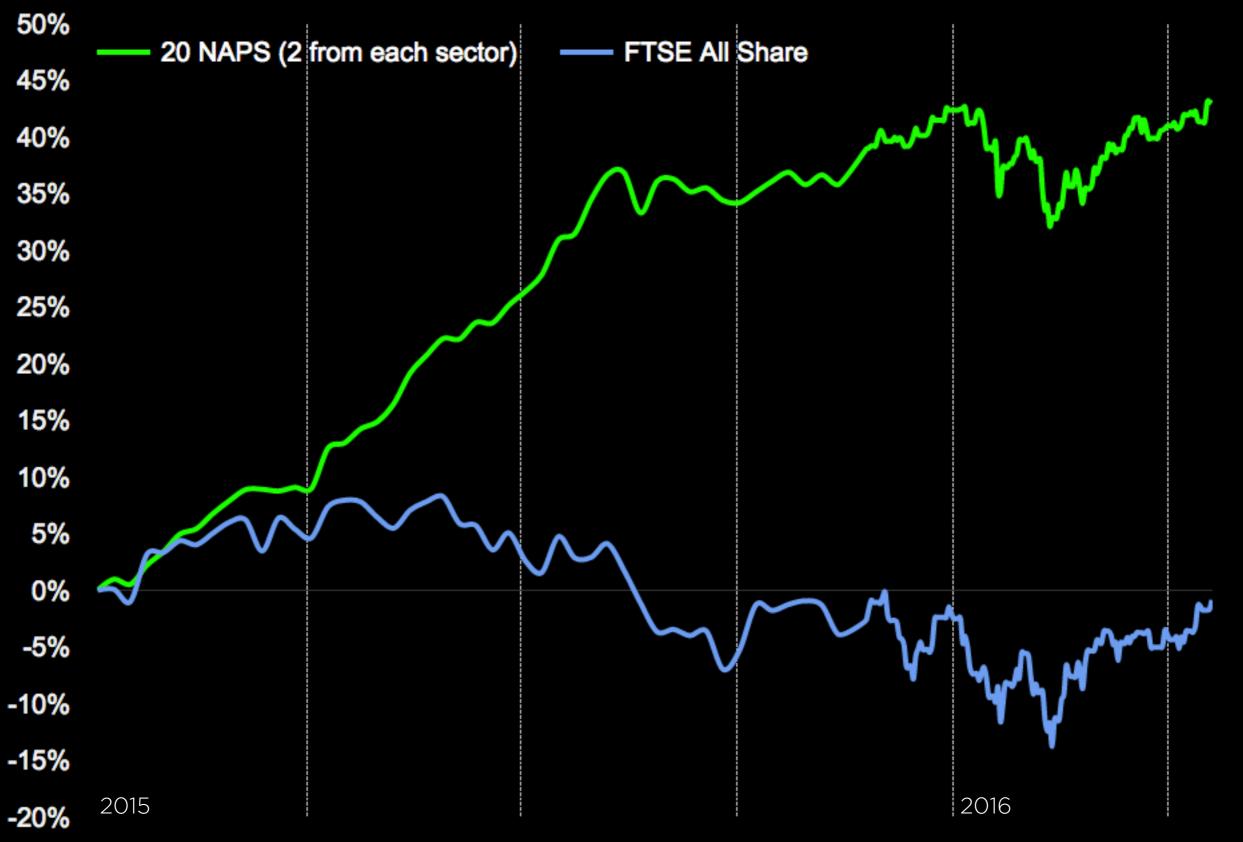
*Portfolios of 5 LSE stocks >£10m market cap held since inception.

"If you are doing a limited amount of work on individual stocks or no work at all like most investors, diversifying with 20 or 30 (magic formula) stocks is most definitely the right plan for you."

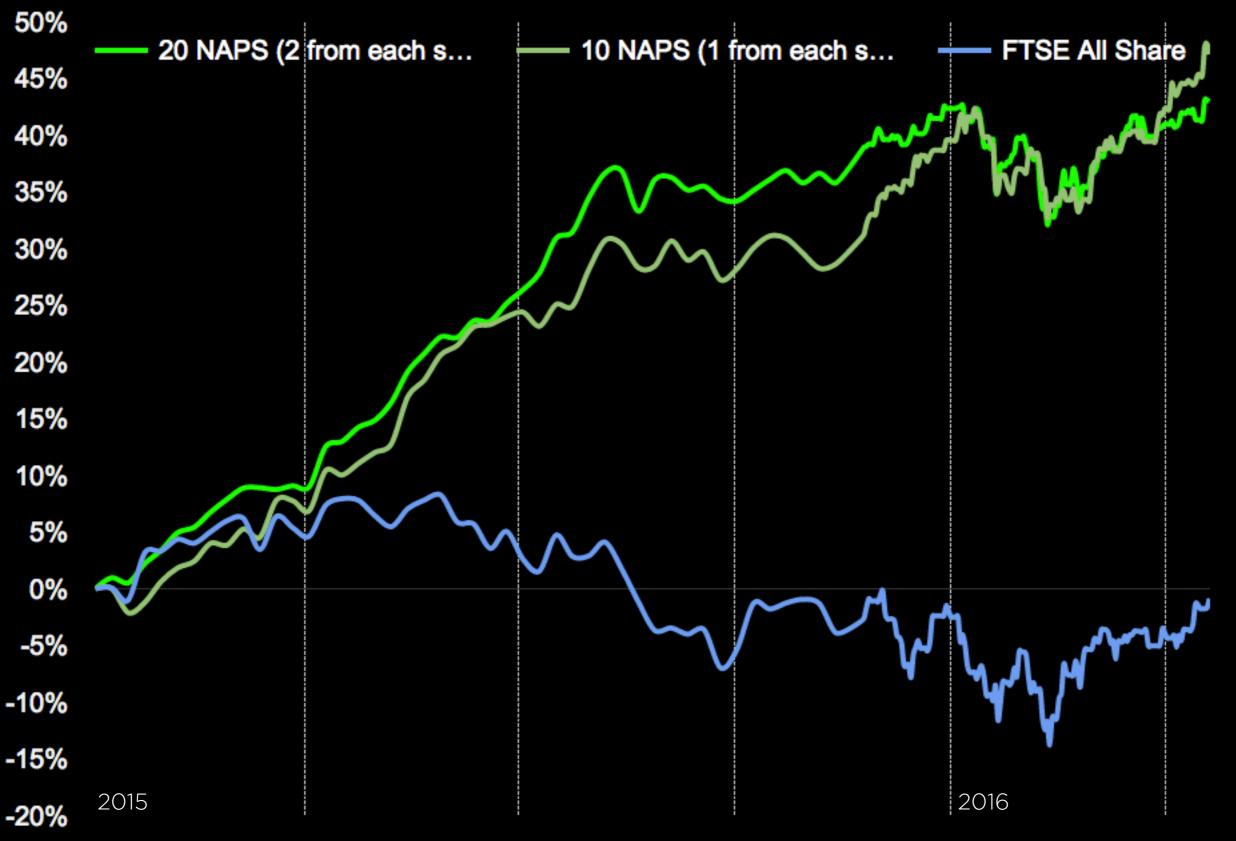
Joel Greenblatt Author, Columbia Lecturer, Gotham Capital



How many stocks?



How many stocks?



How many stocks?

- Aim to build up to 25 stocks
- Bear in mind costs & size

	Portfolio Size (£)					
Stocks in portfolio	5,000	10,000	20,000	30,000	50,000	100,000
1	4.72%	2.76%	1.78%	1.45%	1.19%	1.00%
5	6.00%	3.40%	2.10%	1.67%	1.32%	1.06%
10	7.60%	4.20%	2.50%	1.93%	1.48%	1.14%
15	9.20%	5.00%	2.90%	2.20%	1.64%	1.22%
20	10.80%	5.80%	3.30%	2.47%	1.80%	1.30%
25	12.40%	6.60%	3.70%	2.73%	1.96%	1.38%
30	14.00%	7.40%	4.10%	3.00%	2.12%	1.46%
50	20.40%	10.60%	5.70%	4.07%	2.76%	1.78%

stk.pe/folio-breadth

Concentration vs Leverage

There are 2 ways to increase returns:

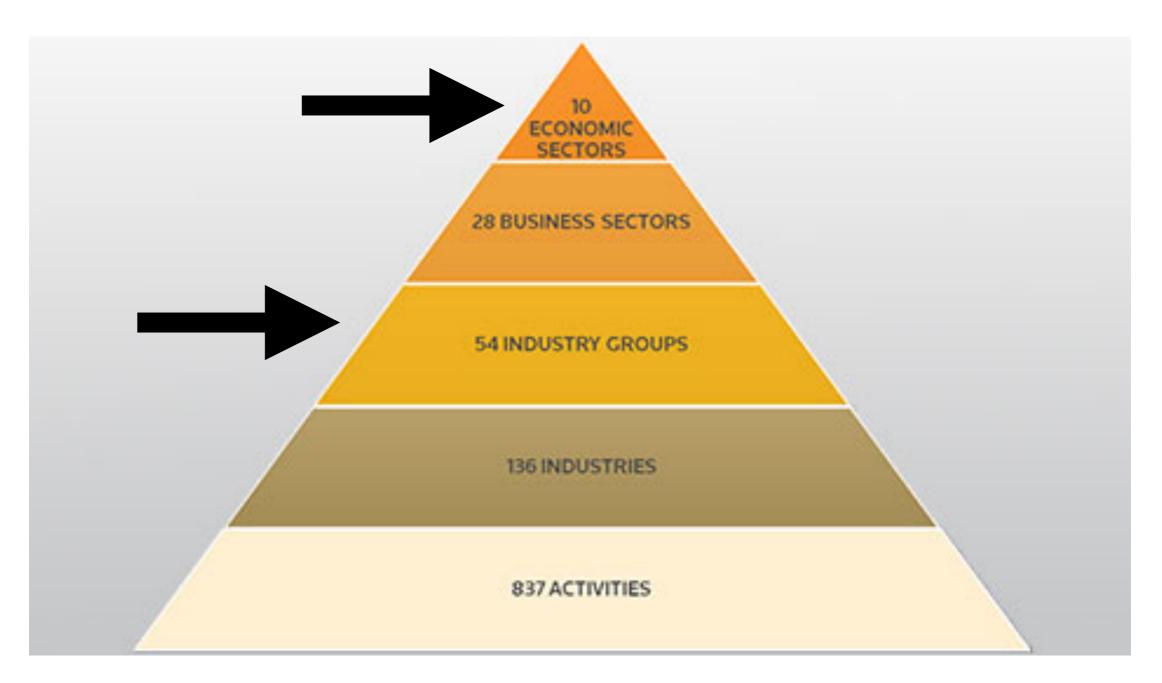
- 1. Concentrate in just a few stocks (get lucky)
- 2. Diversify and Leverage (get smart)

Managing leverage risk is easier than managing concentration risk ! stk.pe/concentration-vs-leverage

Diversification 2. How many sectors?

TRBC Business Classification

A simple but effective sector classification schema



TRBC Business Classification

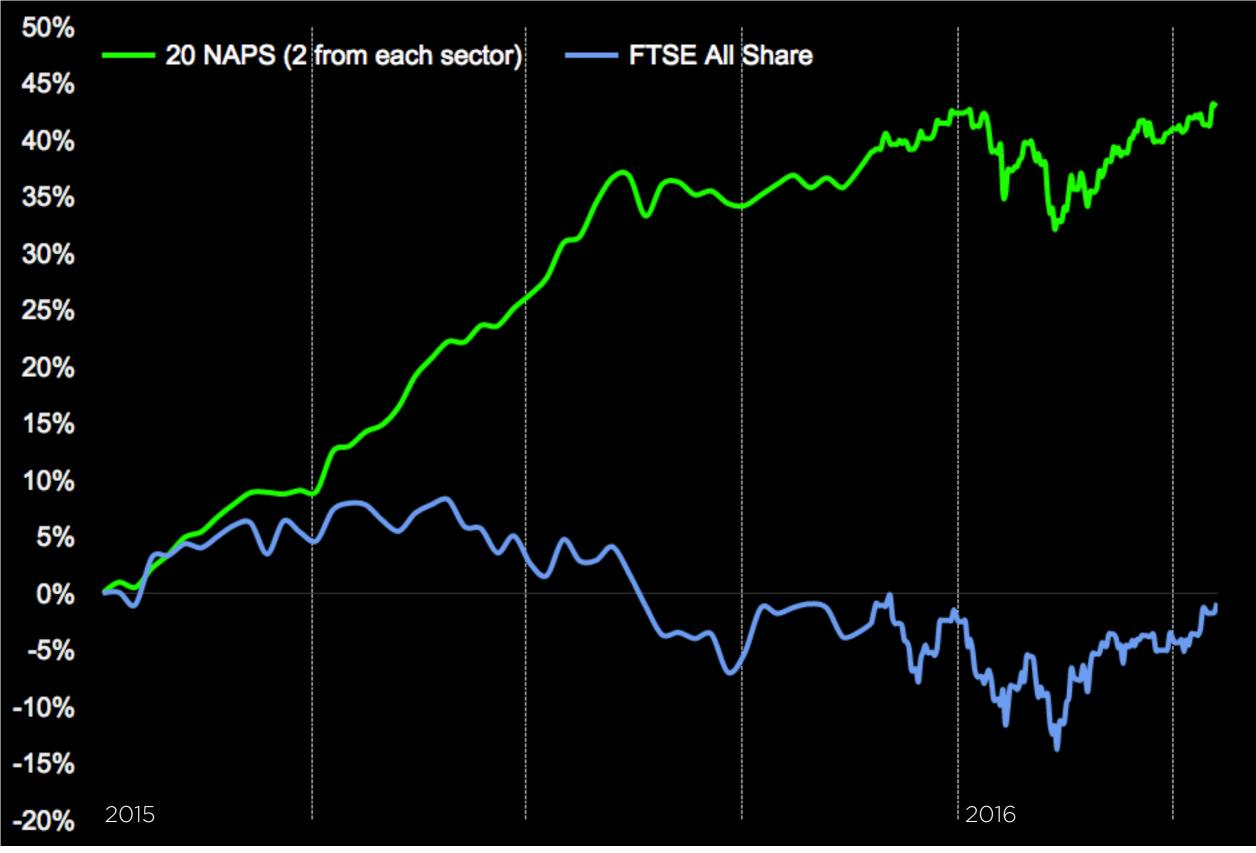
10 Economic Sectors

- Energy
- Basic Materials
- Industrials
- Consumer cyclical
- Consumer defensive

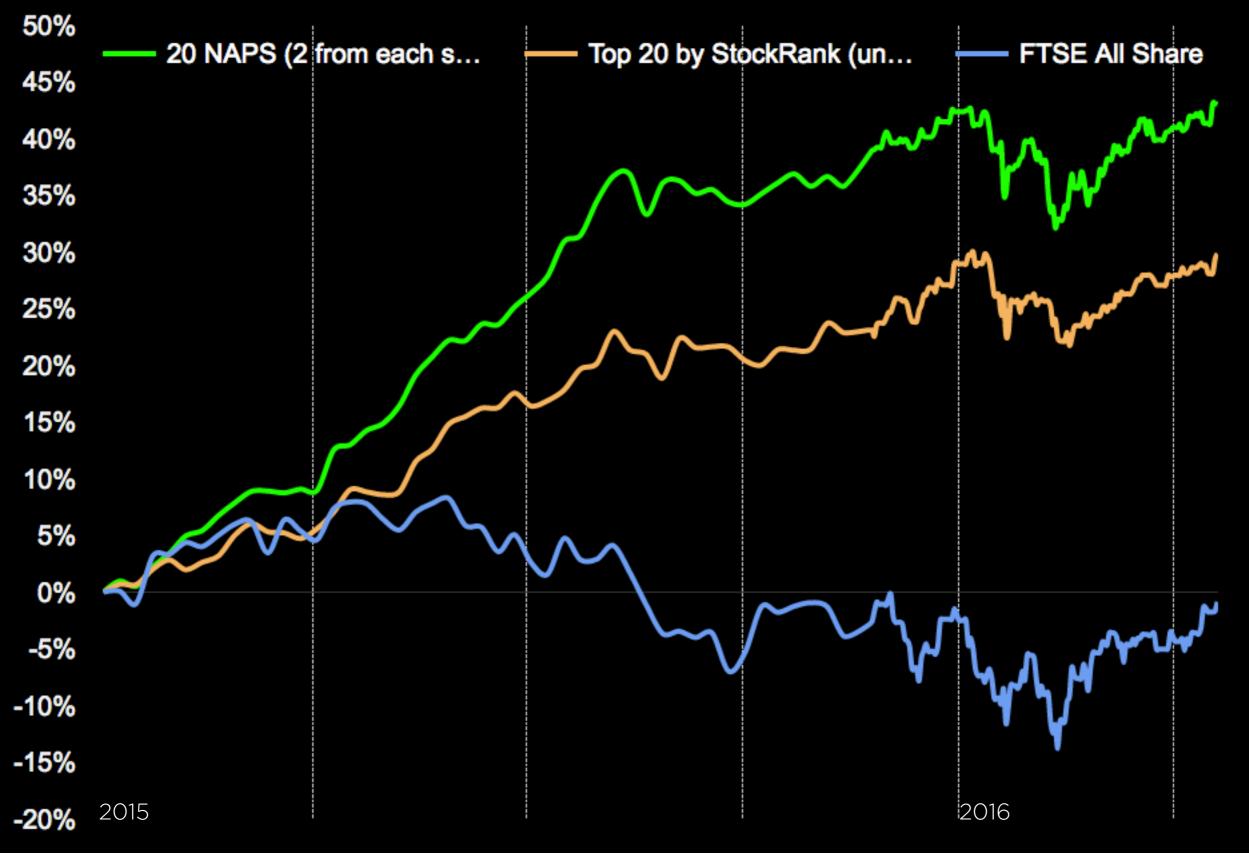
- Financials
- Healthcare
- Technology
- Telecoms
- Utilities

stk.pe/trbc-sectors

Why diversify across sectors?



Why diversify across sectors?



Diversification 3. Microcaps - a double edged sword?

4. Keeping your Balance Position Sizing and Rebalancing



Position Sizing

- Keep things simple
- Avoid over-confidence
- Equal weighted positions ?

Why Rebalance?

- Prices drift & position sizing drifts (risk)
 Exposure to QVM payoffs drifts (risk)
- Avoid single stock overexposures.
 Remain aligned with the right payoffs.
- Mind the costs! (commission+spread+tax)

Excellent article - stk.pe/keep-rebalance

"Rebalancing is the simplest, and yet one of the most powerful, ways of buying low and selling high"

Andrew Ang

Professor of Business, Columbia Business School Author: "Asset Management, A systematic approach to factor investing"

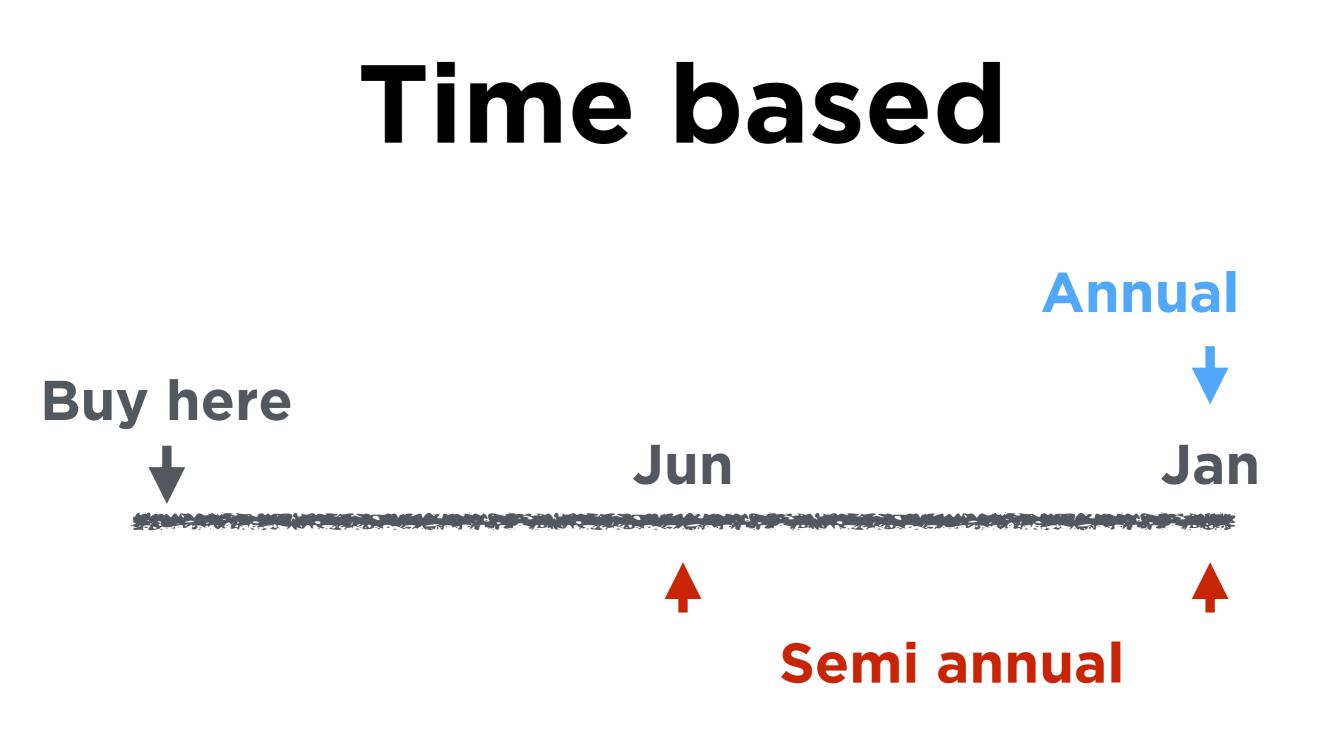


2 Approaches

• TIME based (passive) i.e. every fixed schedule - each year



• THRESHOLD based (active) i.e. when positions drift in size / rank



More frequent... more return, higher cost!

Time based

- Frequency depends on:
 - Account Tax Status (avoid CGT in ISA/SIPP)
 - Portfolio Size (large accounts can trade more)
 - Frictional trading cost (small caps expensive)
- Annual rebalancing ideal?
- Staggered rebalancing?

stk.pe/cost-worksheet

Threshold based



8%

- Contraction and the second

4%

- - arous dialise was a fue and is a

target

SELL

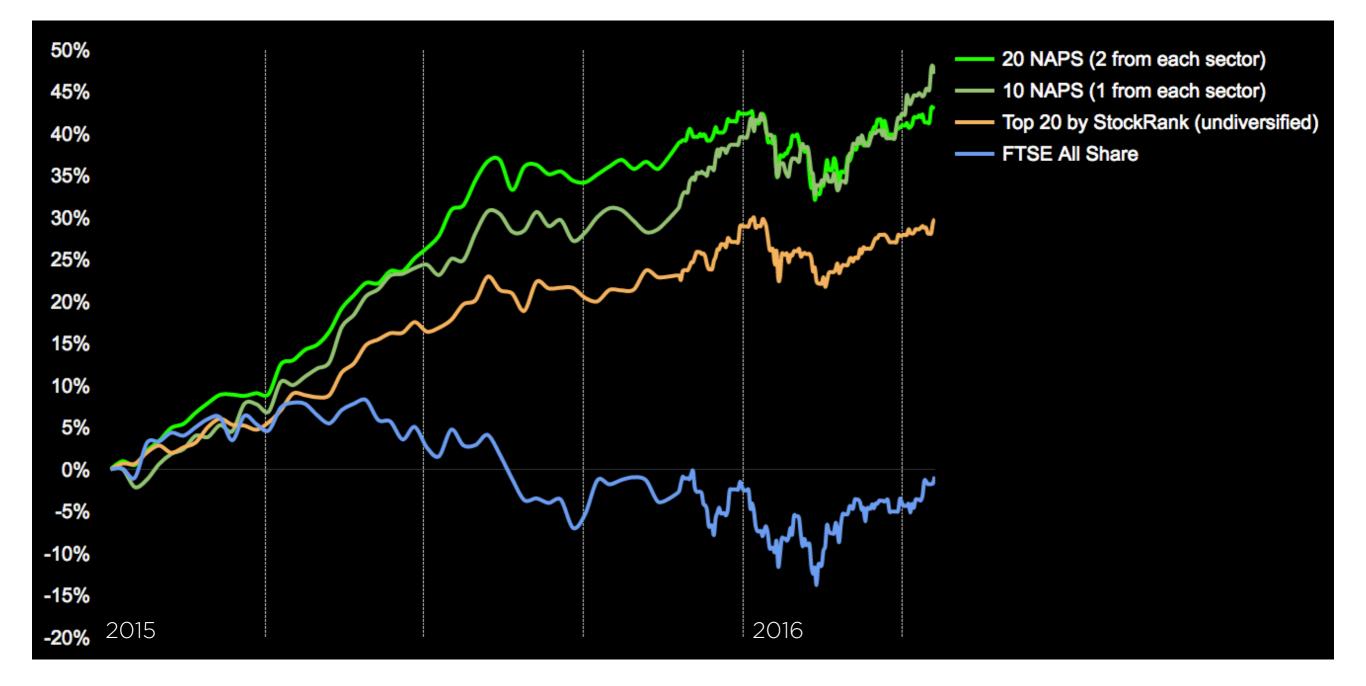
2%

- -----

BUY

take advantage of mean reversion

All the Folios



Additional Material

User Portfolios

Two of the most vocal StockRank systematic 'farmers' with their remarkable success stories to date.

Mechanical Bull <u>stk.pe/mech-bull</u> 67.7 per cent in 2 years

GrinderTrader <u>stk.pe/grinder-trader</u> 38 per cent in 1 year



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