

## **Anthony Doyle**

### **Cross-Asset Investment Specialist**



- Based in: Sydney, Australia
- Years of Investment Experience: 18
- Education: MBA, University of London
- MEconSt, University of New England
- BCom, Macquarie University

- 18 years experience in global financial markets
- Assists and advises Fidelity's clients on investment strategies, macroeconomic themes and asset allocation
- Covers the Australian and New Zealand economies on behalf of the Global Macro and Strategic Asset Allocation team
- A regular speaker and market commentator in the media
- Previously worked at Macquarie Bank (Sydney, AU), Pioneer Investments (Dublin, IE) and M&G Investments (London, UK)



anthonywdoyle



@DoyleAUD



"If you look at economics textbooks, you will learn that homo economicus can think like Albert Einstein, store as much memory as IBM's Big Blue, and exercise the willpower of Mahatma Gandhi. Really. But the folks that we know are not like that. Real people have trouble with long division if they don't have a calculator, sometimes forget their spouse's birthday, and have a hangover on New Year's Day. They are not homo economicus; they are homo sapiens."

### Who is Homo Economicus?

### A human or a computer?

- Makes decisions in a perfectly rational manner
- Not influenced by any biases
- Can process any amount of information that they have regardless of quantity, quality or complexity
- Has access to all the relevant information related to the decision they have to make
- Only interested in helping themself and doesn't care about anyone else
- Focuses on maximising utility as a consumer and profit as a producer
- Preferences and goals are consistent over time



# A quick history guide Introducing behavioural finance

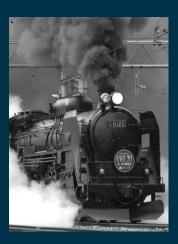
- Traditional economic models developed in the 1950s assumed markets were efficient and investors were rational.
- Growing doubts about 'efficiency' after stock market crashes accelerated interest in the field of behavioural finance, which had its origins in psychology experiments in the 1970s.



# Why behavioural finance is important Studying booms and busts



Tulipmania (1630s)



Railway mania (1630s)



Dot.com bubble (1999-2000)



Global credit bubble (2003-2007)

Bitcoin?
NASDAQ?
SPACs?
Housing?
Government
bonds?

Covid-19 (2020-???)

Behavioural finance offers reasons why market pricing swings away from intrinsic value based on sustained moves in investor sentiment

## Knowing how our brains are wired

### Can make us better investors

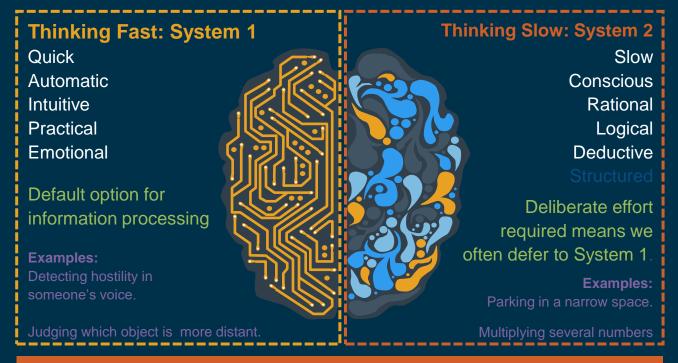
Human psychology can have a big impact on investing.

We make 'cognitive' errors on a routine basis by using rules of thumb and over-simplifications.



### A framework for understanding our biases

### Thinking fast and slow



Understanding the decisions we make

## System 1 jumps to conclusions

#### Automatic but far from infallible



Your brain reads these as ABC and 12, 13, 14.

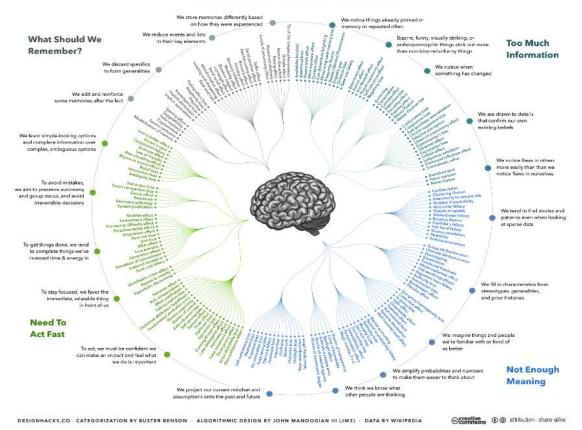
Yet the middle item is identical and ambiguous. Why not A,13, C?

System 1 jumped to the conclusion using the context.

Uncertainty is only properly considered by the more deliberate thinking of System 2.

Which system did you use?

#### COGNITIVE BIAS CODEX



### Bias 1: Framing

### The deadly virus experiment

You are offered the choice of two programmes to deal with a deadly virus. Each programme has 600 patients. Which one do you choose?

### **Experiment One**

Programme A: 200 people will be saved.

**Programme B:** There is a 1/3 probability that 600 people will be saved and a 2/3 probability that nobody will be saved.

#### **Experiment Two**

Programme C: 400 people will die.

**Programme D:** There is a 1/3 probability that nobody will die, and a 2/3 probability that 600 people will die.

72% of patients chose A

Only 22% of patients chose C

A and C are the same.

As are B and C.

Just worded

differently!

# Framing in action Which way is the figure rotating?

The pictures to the left and right frame our perception



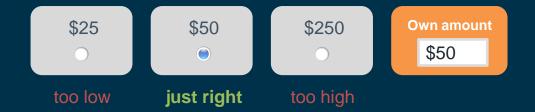
Framing influences our perception

# Framing in action How does the risk of serious side-effects from the AstraZeneca vaccine compare with other risks?

Chance in a million of		25-year-old	55-year-old
serious harm due to vaccine side-effects	Q <sub>vj</sub>	11 in a million	<b>4</b> in a million
dying with coronavirus		23 in a million	<b>800</b> in a million
dying due to an accident or injury	53	110 in a million	180 in a million
dying in a road accident	M <sub>2</sub>	<b>38</b> in a million	23 in a million
being hit by lightning this year	•	<b>1</b> in a million	<b>1</b> in a million

# Bias 2: Nudging Charity website illustration

I would like to make a single donation of:



- Charities carefully chose which amounts to show when asking for an online donation
- The choice above is structured to encourage us to donate \$50.
- A default of \$50 is also automatically placed in the 'Own amount' category to further nudge us towards this figure.

Organisations give a lot of thought to how choices are framed

### Bias 3: Confirmation bias

#### We see what we want to see

- Decisions made under uncertainty are not always reliable.
- We selectively filter and focus on information that supports our existing beliefs and opinions.
- We're twice as likely to seek information that confirms what we already believe.

"What the human being is best at doing is interpreting all new information so that their prior conclusion remains intact."

- Warren Buffett





Opinions are formed on past events

### Confirmation bias in action

### Tips for investors

- Investment decisions can be influenced by the choices we made in the past
  - Beware of pre-existing beliefs or sunk costs.
- Positive affirmation is sought to support ideas that may be outdated
  - This happens sub-consciously.
- The range of opportunities considered can be limited by this kind of thinking.
- Avoiding this bias requires a deliberate effort to seek opposing views.

"People almost always find what they are expecting to find if they allow their expectations to guide their search."

- Bart Ehrman



Always review your investments from first principles

# Bias 4: Hindsight bias "I knew it all along"

### Students were asked to predict a share price one week ahead

They provided a forecast and two bounds that represented 90% certainty.

A week later they recollected what figures they gave now that they knew the actual price.

**Result:** their recollected forecasts moved closer to the actual value and the range provided shrank!



Hindsight bias is hard to feel and recognise when it's happening

# Hindsight bias in action Tips for investors

### Investors can protect against hindsight bias by:

- Being wary of linear and single-factor explanations of complex events.
- Conducting forward-looking research.
- Seeking opposing views.
- Considering a range of future scenarios.
- Diversifying investments.
- Regularly reviewing portfolios.



## Bias 5: Representativeness

### Making judgements that are statistically unlikely

Linda is a single, outspoken and bright 31 year old, who majored in philosophy, was deeply concerned with issues of social discrimination and participated in anti-nuclear demonstrations as a student.

### Which is more likely?

A) Linda is a bank teller.

B) Linda is a feminist bank teller.

85% of Stanford Business School graduates wrongly answered B.

Don't stereotype based on specifics.
Use reference base rates to inform
basic probabilities.

# Representativeness in action Tips for investors

### What are the investment implications:

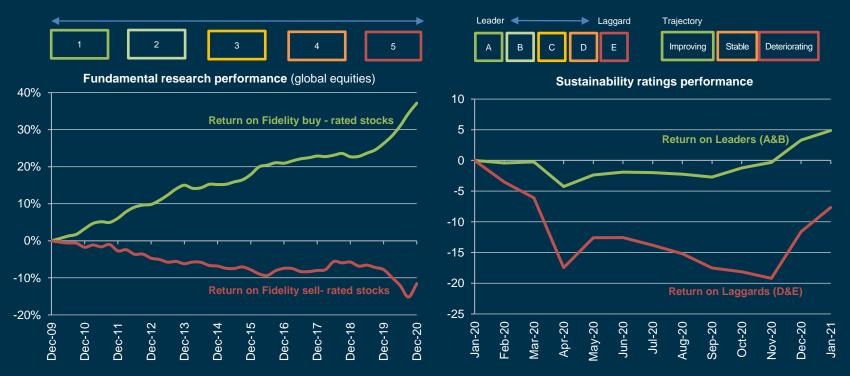
- We might wrongly assume a company is 'hot' because of the sector it's in.
- We might wrongly expect good companies to stay good or bad ones to stay bad.
- We might wrongly see 'boring' companies as boring investments not the case!

#### How to avoid mental shortcuts:

- Make decisions based on actual data rather than stereotypes.
- Do your research!
- Use detailed stock-specific research to move beyond the stereotypical view to reveal 'hidden gems'.



# Fidelity's equity research performance outcomes Delivering performance through valuable research insight



Source: Fidelity International. Data as at 31 December 2020. Regional returns weighted by market cap of companies rated either buy or sell. Value-add calculated vs. regional indices 1&5 weightings are double-weighted. Sustainability ratings relative average of A&B and D&E stocks, equal weighted, to MSCI World. The Fidelity Sustainability Ratings were launched in June 2019. As at 31 March 2021, they cover a universe of c. 4,900 issuers in equity and fixed income. Please remember past performance is not a reliable indicator of future performance.

## Bias 6: Anchoring

### The roulette wheel

A modified roulette wheel (1-100) was spun in front of two sets of students.

The wheel was rigged to land on 10 for one set, and 65 for the other set.

Both groups were then asked a question:

"What percentage of the United Nations is made up of African countries?"

First set (10): Median forecast = 25%

Second set (65): Median forecast = 45%

Forecasts were biased by students anchoring to these random numbers despite their irrelevance!



# Anchoring in practice Tips for investors

- We subconsciously anchor to information sometimes irrelevant numbers.
- This can affect future decisions as we remained wedded to these numbers.
- Anchors include share prices, growth rates and stock market levels.

### The dangers

- Share prices are poor anchors.
- Dividends make better anchors, giving a better indication of a company's health.
- Beware holding onto losing stocks due to being anchored on the price you bought at.
- Don't wait to sell at a round number that may not be relevant to your sell decision.

# Bias 7: Overconfidence How good a driver are you?

On a scale of one to 10, you probably think you're a seven – you're not alone!

93% of American drivers rate themselves as better than the median\*

94% of professors rated themselves above average relative to their peers\*\*

Overconfidence is common – yet the best investors have humility

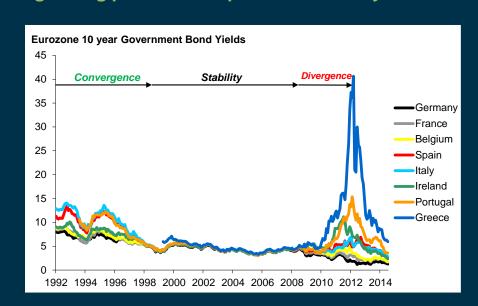
# Overconfidence in practice Stability begets instability

Overconfidence can become a growing problem in a period of stability

Stability can breed financial and investment overconfidence.

The chart shows European government bonds enjoyed a long period of stability.

..until the **financial crisis** happened.



Overconfidence is common – yet the best investors have humility

# Overconfidence in practice Tips for investors



Underestimating market volatility: the 'good times' will last forever...



Having the illusion of control over the direction of your investments.



Over estimating skill and trading too often creates unnecessary costs.

### Bias 8: Herding

### The lure of doing what everyone else is doing

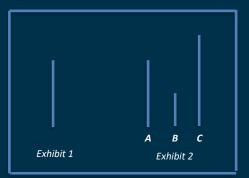
### Investors often act together

- There can be wisdom in crowds, but crowds also suffer from behavioural biases.
- This can lead to extended rallies and sell-offs based on limited fundamental evidence like the dot.com bubble.



# Herding in practice The urge to fit in

One participant was placed in a group where all the others were in on the experiment. Each person in the group was asked to judge which line on the right (A, B or C) was equal to the line on the left.



The participant was asked last within the group. After a couple of rounds of correct answers, those in on the experiment deliberately answered incorrectly to see if the participant would conform.

33% of participants always went with the incorrect majority.
75% conformed at least once.

- Herding: the urge to do as others do, to conform to group & societal norms.
- We prefer the safety of the crowd to the risk of being wrong on our own
- Many CEOs give their opinions last for fear that if they didn't, everyone would simply agree with their view if stated at the outset.

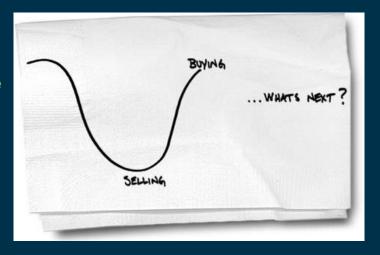
# Herding in practice Tips for investors

**Herding** in financial markets can push up the values of certain sectors or stocks to extreme levels, causing bubbles.

Following the crowd can mean buying when prices are high and selling when prices are low, also known as 'chasing the market'. This is a poor strategy.

While the crowd may be right in momentum-driven markets, it is wrong-footed at turning points.

Best to buy low when others are selling and sell high when others buying. In investment, this is being a contrarian.



## Not following the herd can be costly too



Far more money has been lost by investors preparing for corrections, or trying to anticipate corrections, than has been lost in corrections themselves.

- Peter Lynch, Fidelity Magellan Fund (1977-90)

### Avoiding the herd

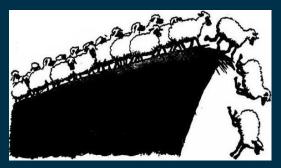
### Don't be afraid to take an alternative position

Make your own decisions, do your own research and explore alternative views instead of simply following the crowd.

Buy investments when they are lowly valued versus history.

An **unconstrained approach** is one way to move away from the market cap index-tracking herd.

Consider investment styles that target **value** stocks, which often move differently to the broader market.



Don't be a sheep when it comes to investing...

"It is impossible to produce a superior performance unless you do something different from the majority"

- Sir John Templeton

## Bias 9: Loss aversion Our disproportionate fear of losses

### Which would you choose?

Win \$900 for sure **or** take a 90% chance of \$1000?

Lose \$900 for sure **or** take a 90% chance to lose \$1000?

## Most people take the safe option in the first example but the gamble in the second



**Why?** The two situations are mirror images... but the second is framed as a loss. Faced with the prospect of a loss, we latch onto the possibility of avoiding it.

We will act irrationally by risking what would be a bigger loss to avoid it.

We feel the sting from a loss about twice as strongly as the happiness from a gain of the same amount.

# Loss aversion in practice Tips for investors

We need to understand loss aversion in order to avoid making irrational decisions

- Don't run losers to avoid 'taking a loss'.
- Instead, run the winners and cut the losers.
- Review your investments from first principles as if you didn't own them.
  Would you still buy?
- Stick to a consistent investment philosophy and process (or invest in a product which does).

# Loss aversion in practice "3 strikes an I'm out"

The rule of 3: why some investors sell at exactly the wrong time (using the Covid-19 crisis of 2020 for illustration)

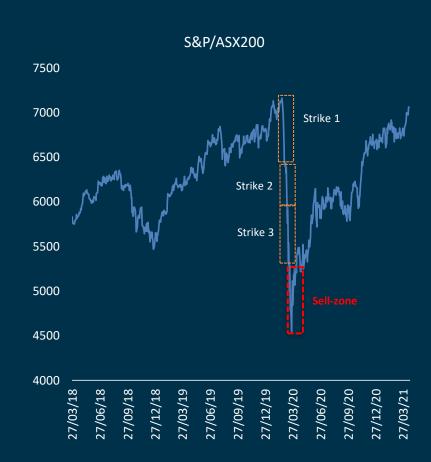
There is some evidence that investors use a rule of 3 for dealing with losses:

**Strike 1:** They are prepared to ride out the first correction in the market.

**Strike 2:** They are pained by the second correction but hold on.

**Strike 3**: Finally, they capitulate after the third wave of selling pressure.

The irony is that stock markets often correct in three downward waves meaning investors sell at the bottom. **Precisely the wrong time.** 



### Bias 10: Familiarity bias

### We prefer the familiar



Mere exposure effect: repeated exposure to a word or stimulus can affect our preferences and cause us to form a more positive view.

Our brains are comfortable with the safe and familiar; but suspicious of novelty.

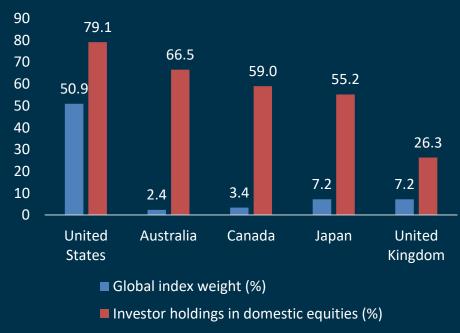
Subliminal advertising and branding are very effective.

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# Familiarity bias or home bias Tips for investors

**Mere exposure** can cause us to be biased towards more familiar assets, stock markets, or individual securities.

- Invest in a wide range of assets and geographies.
- With ever-shifting market leadership, it's important to have a diversified global portfolio.
- Consider if you have enough exposure to international markets.



## **Emerging markets and Asia**

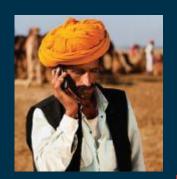
### Long-term trends

- 1. ...will drive global growth;
- 2. ... are more resilient to capital outflows;
- 3. ...are becoming technology innovators;
- 4. ...have younger and larger populations;
- 5. ...are experiencing rising wealth;
- 6. ...have less debt;
- 7. ...have growing consumer markets;
- 8. ... offer attractive valuations.



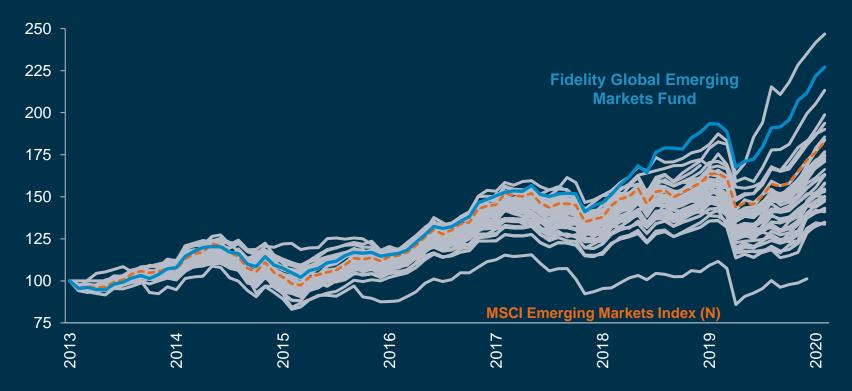






Source: Fidelity International, April 2021.

# Fidelity Global Emerging Markets Fund Strong performance since inception



Source: Fidelity International, Morningstar, January 2021. The index is MSCI Emerging Markets (N). Fund inception 16 December 2013. Total net returns represent past performance only. Performance returns are shown net of fees in AUD terms. Past performance is not a reliable indicator of future performance. Returns of the Fund can be volatile and in some periods may be negative.



## Fidelity Behavioural Insights: our approach



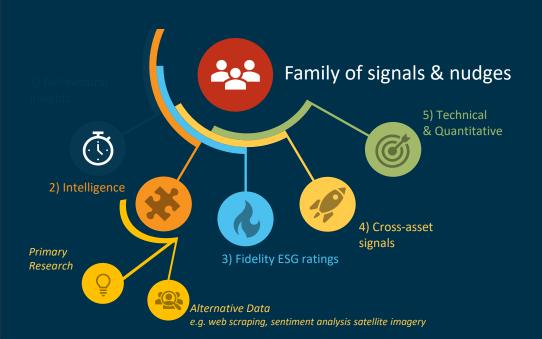
- Tools that provide live insight on portfolios, securities and other market participants from a behavioural perspective
- Contrasts with alternative behavioural approaches:
  - Is not pure social data mining, e.g. twitter sentiment analysis
  - Is not simply enhanced analytics, e.g. focusing on past errors, early/late selling
  - Is using behavioural finance as a framework for thinking about FIL internal decisionmaking processes, and seeking to address them using technology
- Promoting human decision-making: automatically-generated nudges containing charts & visualisations designed to stimulate desired behaviour, rather than 'Good' / 'Bad' signals
- Targeting key marginal gains across the Fidelity investment process, complementing fundamental investment analysis





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## Introducing the Fidelity Augmented Research Centre





MPhys – University of Oxford PhD, Astrophysics – Edinburgh University Chartered Financial Analyst





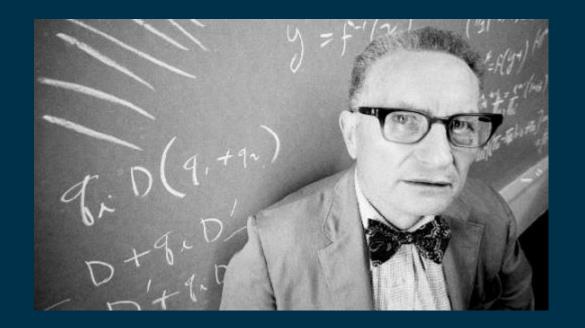




# Strategies for long-term investing The only certainty is that there will be more uncertainty

- 1. Exploit a long-run time horizon
- 2. Diversify
- Cash is now return-free
- 4. Minimising costs can come at a cost
- Be selective





"I tell people investing should be dull. It shouldn't be exciting. Investing should be more like watching paint dry or watching grass grow. If you want excitement, take \$800 and go to Las Vegas"

Paul Samuelson, Nobel Prize in Economic Sciences (1970)

## Summary: be alert to your biases

- There are many biases and systematic thinking errors we are prone to as investors.
- It may not be possible to change the way our brains are wired, but recognising we are susceptible to errors is the first step in learning from them.
- There are practical steps you can take to minimise the influence of biases.
- A robust and consistent investment process with clear buy and sell principles can be a valuable defence against many behavioural biases.

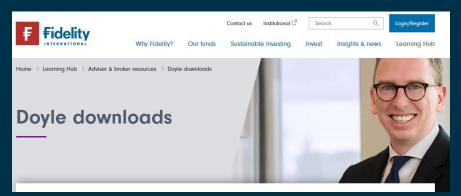


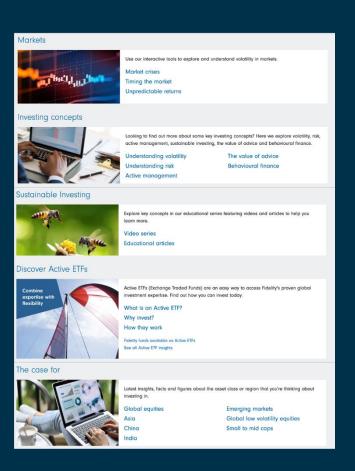
Source: Fidelity International, April 2021.

## Explore the Fidelity Learning Hub Investor information

Whether you're just starting out or a seasoned investor looking to dive deeper into investment principles, we've got a range of guides, tools and information to help you understand your options.

### https://www.fidelity.com.au/learning-hub/





Source: Fidelity International, April 2021

## Summary

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