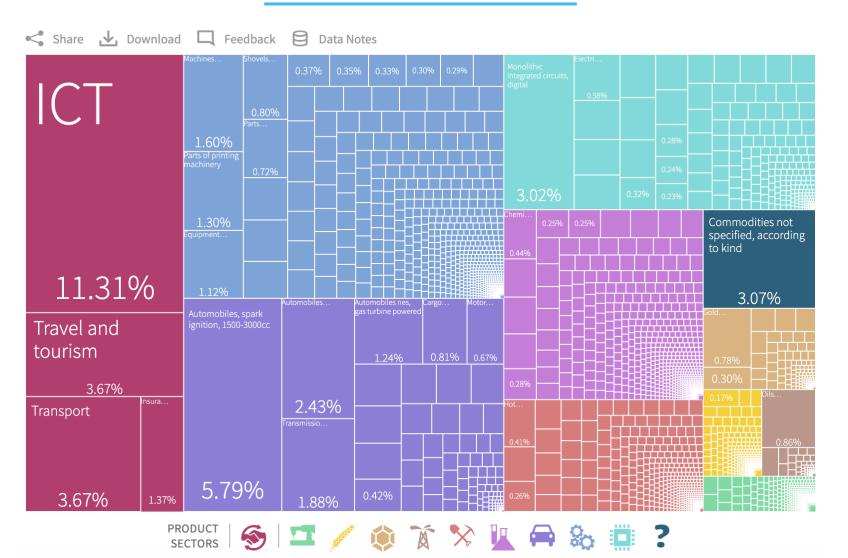
Lessons for captains of industry from captains of aircraft

Jon Foster-Pedley

Dean and director of Henley Business School in Africa



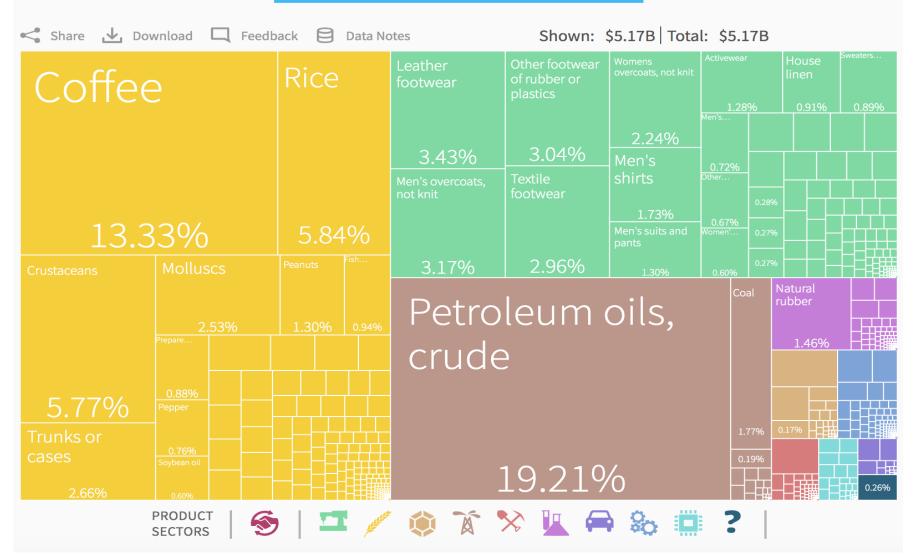
What did Japan export in 2017?





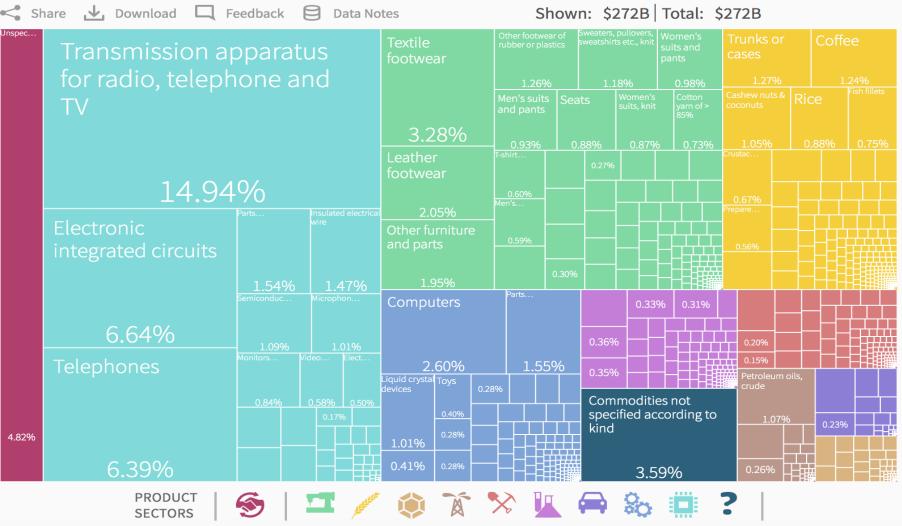


What did Vietnam export in 1995?



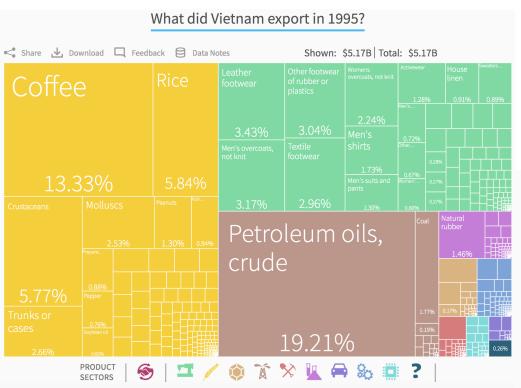


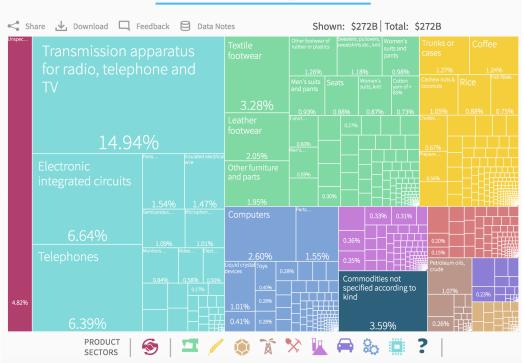
What did Vietnam export in 2017?









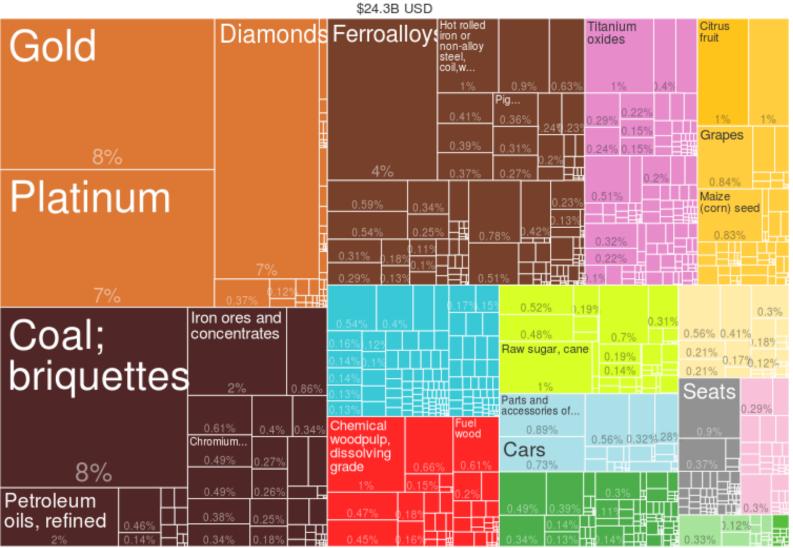


What did Vietnam export in 2017?





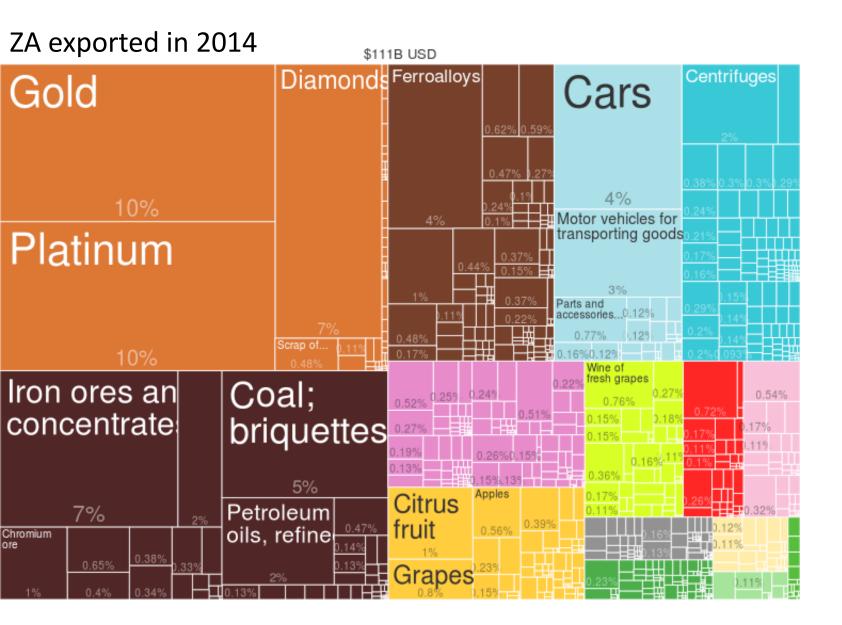
ZA exported in 1994



ZA, in-the-middle economy





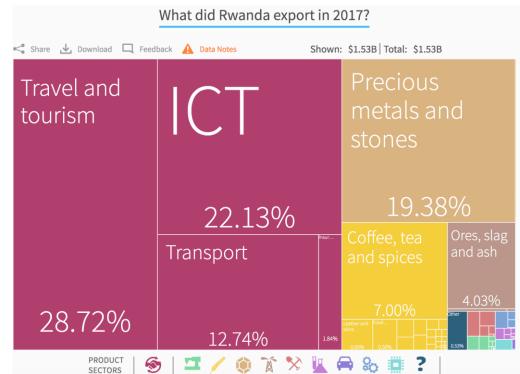


ZA, still mostly inthe-middle economy

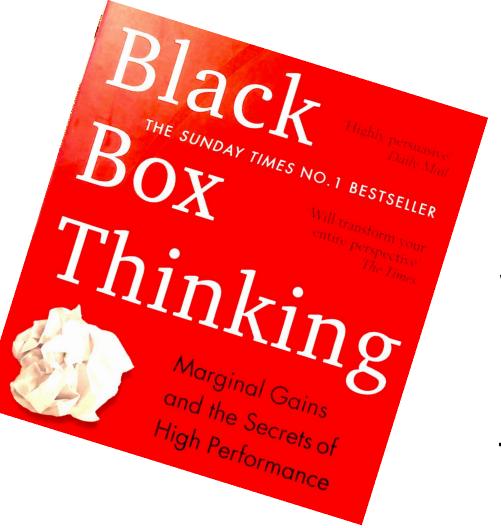








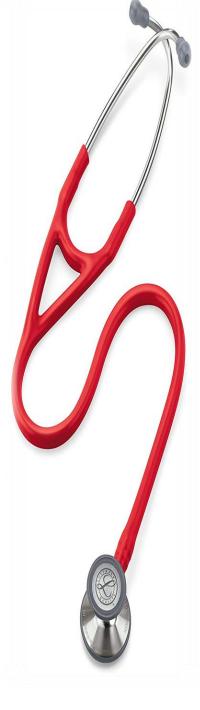




Why most people never learn from their mistakes

Jon Foster-Pedley dean and director, Henley Business School Africa





Why is flying safe?



Aviation Between 2013-2018 on average, per annum, **worldwide**:

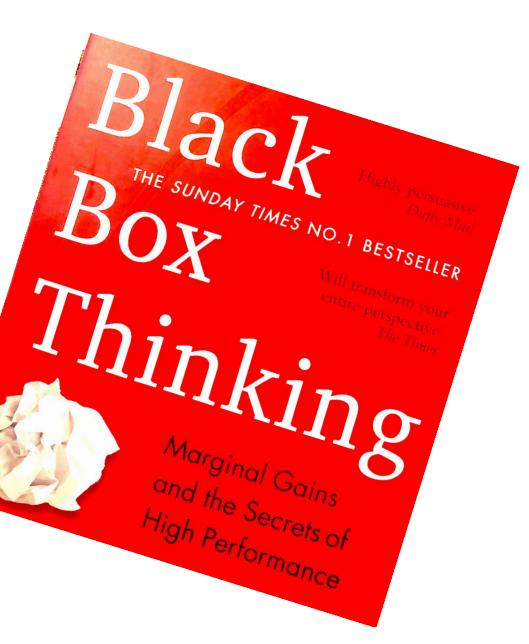
• 410 people died in 14 fatal commercial aircraft crashes. 37 million flights p.a. carrying over 3 billion people, that's one fatal crash per 2,500,000 flights

Medicine

- In **USA alone**, medical studies by Harvard and others calculate **400,000 premature deaths** per annum by preventable medical harm.
- That's like two 747s falling out of the sky daily



The Book in Three Sentences



- 1. Success can only happen when we confront our mistakes
- 2. More people die from mistakes made by doctors and hospitals than from traffic accidents.
- 3. Aviation, on the other hands, has created an astonishingly good safety record because mistakes are learned from rather than concealed.

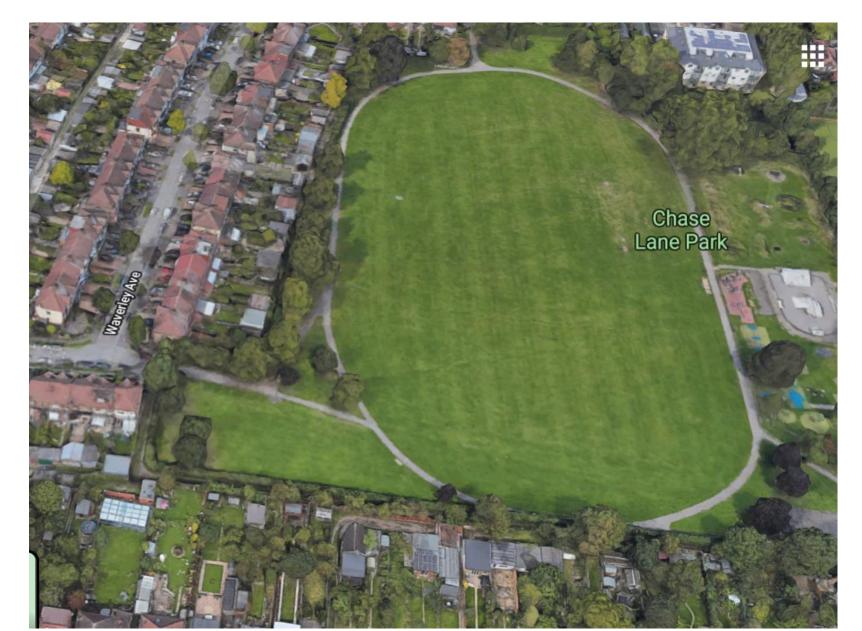


The Five Big Ideas



- 1. The single greatest obstacle to progress is failing to learn from mistakes.
- 2. A cornerstone to success is a progressive attitude to failure.
- 3. "Only by redefining failure will we unleash progress, creativity, and resilience."
- 4. "When we are confronted with evidence that challenges our deeply held beliefs we are more likely to reframe the evidence than we are to alter our beliefs."
- 5. "Marginal gains is not about making small changes and hoping they fly. Rather, it is about breaking down a big problem into small parts in order to rigorously establish what works and what doesn't."

David Beckham. Before the age of 16 – **50,000** practice kicks at his local park





Black box thinking



'Black boxes' + dispassionate analysis = info without guesswork or politics



The fear of shame leads to the deliberate concealment of errors, so everybody loses opportunities to learn.

Lesson three: learn by building, make marginal gains, iterate often, create theories and try to falsify them.

'If I want to be a great musician, I must first play a lot of bad music. If I want to become a great tennis player, I must first lose lots of tennis games'

Lesson four: understand, accept and eliminate cognitive dissonance.

Resist the temptation to spin failure as a success, or deny that something went wrong. Accept such failures as an opportunity to learn and improve.







This openness and lack of blame culture is key to keeping the team together, Wolff believes.

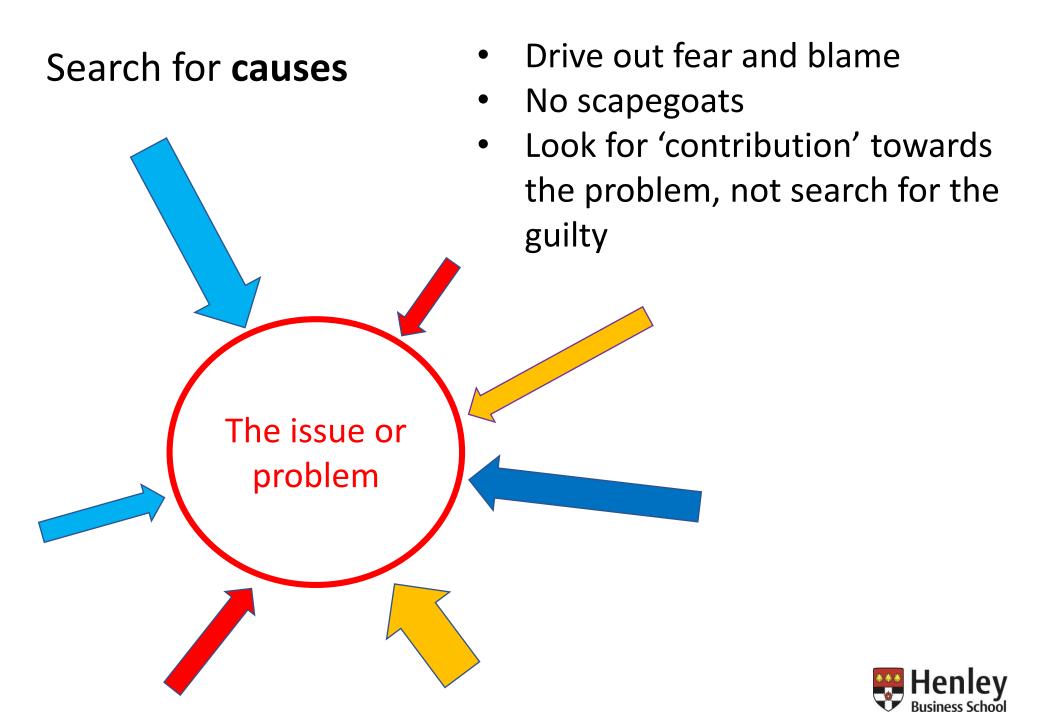
Wolff ascribes the team's success to "permanent scepticism" and says the "relentless pursuit of excellence" is "something that is very ingrained in the team".

"See it, say it, fix it" mantra,

You need to **utilise those marginal gains** in order to extract the most out of your group of people."

"We do mindfulness," Wolff says. "We have actually rolled out meditation across the whole team over 1,000 people.



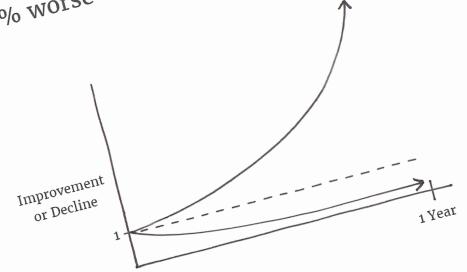


The magic of marginals

The Power of Tiny Gains

1% better every day 1% worse every day

$$\begin{array}{c} 1.01^{365} = 31.18 \\ 1.01^{365} = 0.03 \\ 0.99^{365} = 0.03 \end{array}$$



Matthew Syed Black

THE SUNDAY TIMES NO.1 BESTSELLER

Box

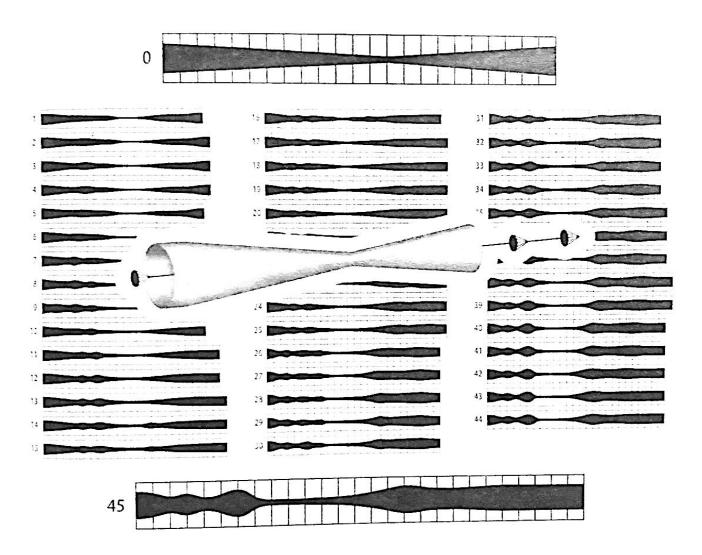
Thinking



Marginal Gains and the Secrets of High Performance

02





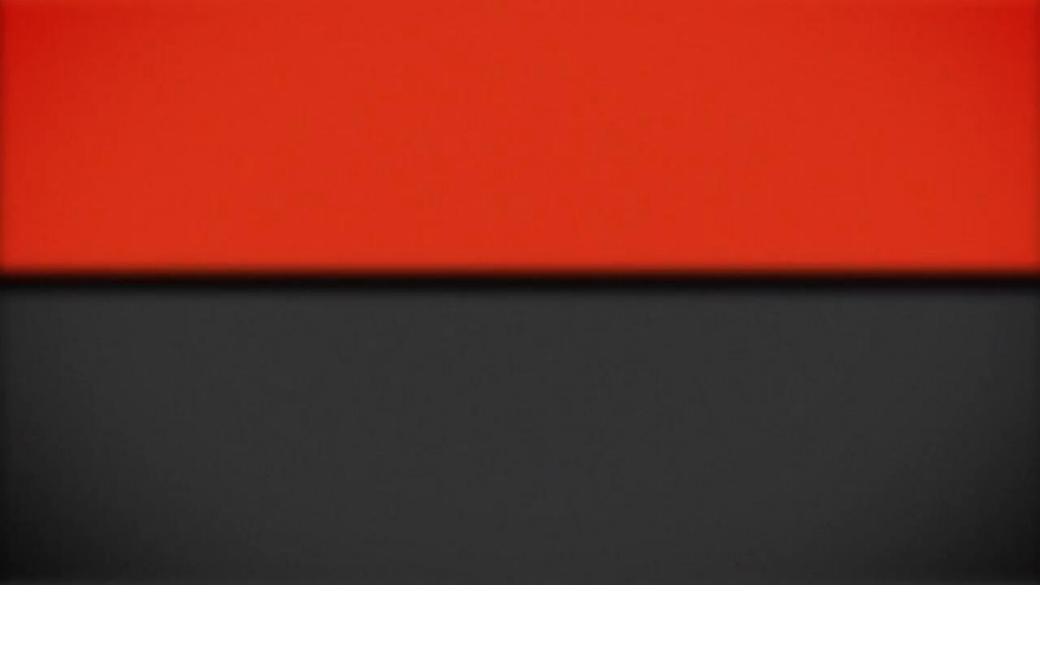
(The original nozzle is at the top. The final nozzle, after 45 generations and 449 rejected designs, is at the bottom. It has a shape no mathematician could possibly have anticipated.)













Pre-mortems

- Think about why your ideas may fail before you implement them.
- How would you destroy your own company?
- By picking away at the shortcomings, early ideas are made more efficient and likely to succeed.



If a thing's worth doing, it's worth doing badly – to begin with

 Don't be afraid of early failure. Many of today's largest and most successful companies – Facebook and Amazon for instance – released minimum viable products (MVPs) early in their development.

 There are distinct benefits with going to market with an imperfect product, rather than sheltering your product from the market until its 'perfect'.





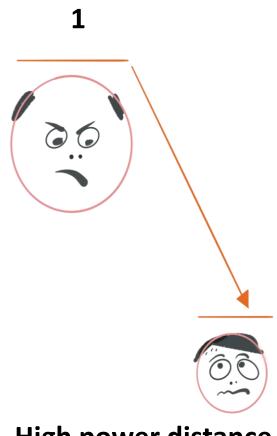
Power distance... AF 447





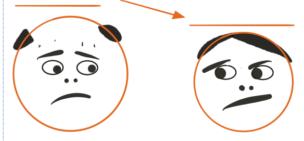






High power distance
Silence of dissent
No feedback
Autocratic decisions

2

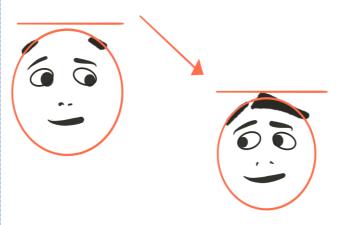


V. Low power distance

No authority
Too little respect
Feedback confused
Decisions not challenged
Or over-challenged

Power distance

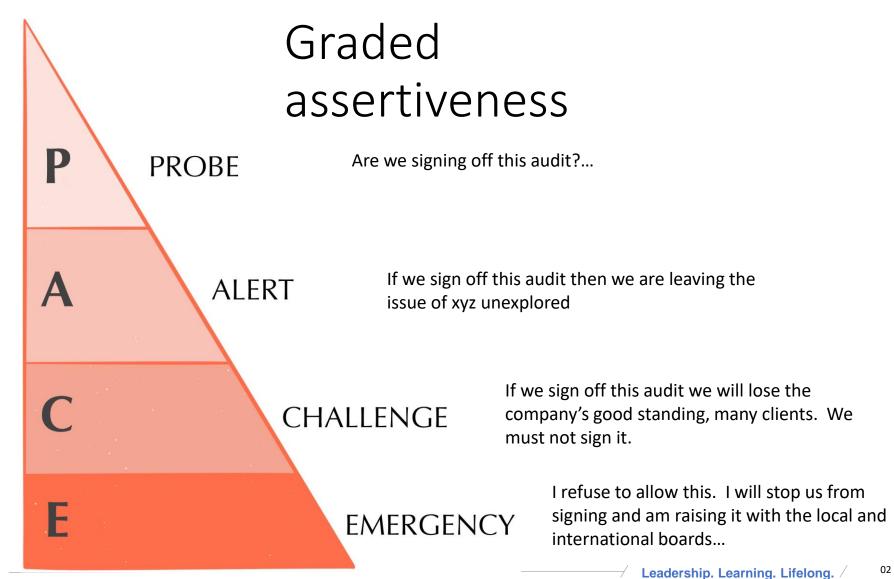
3



Low power distance

Open communication
Appropriate respect
Good feedback both ways
Sufficient authority
Fast corrections



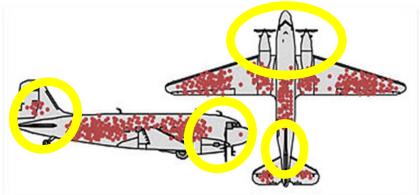






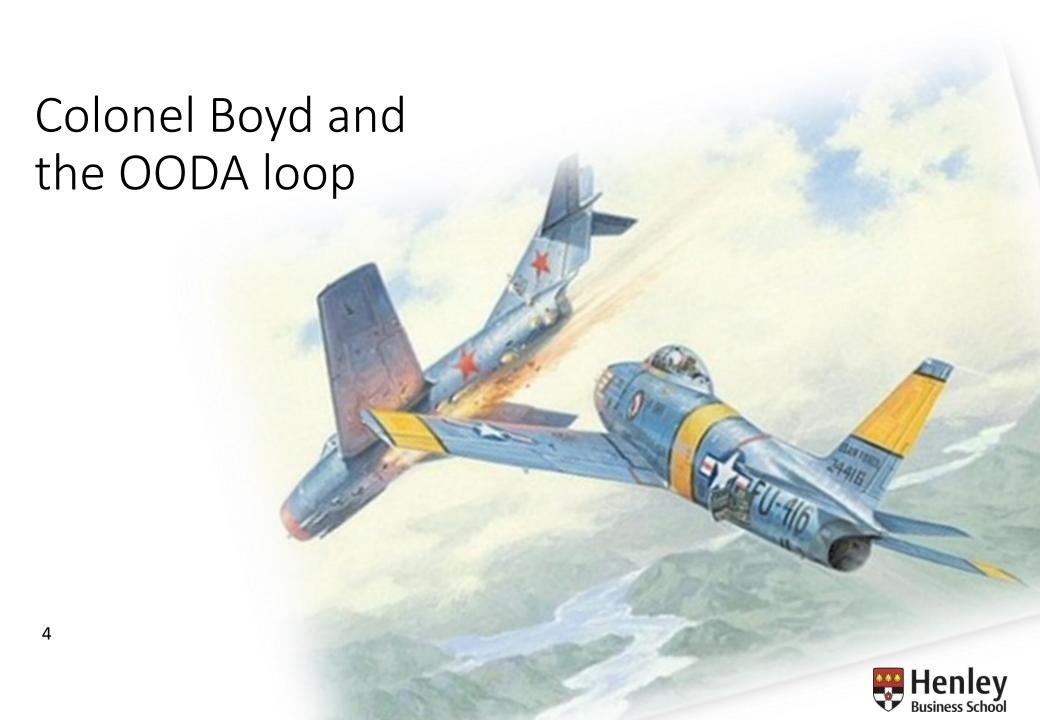
Thinking straight...

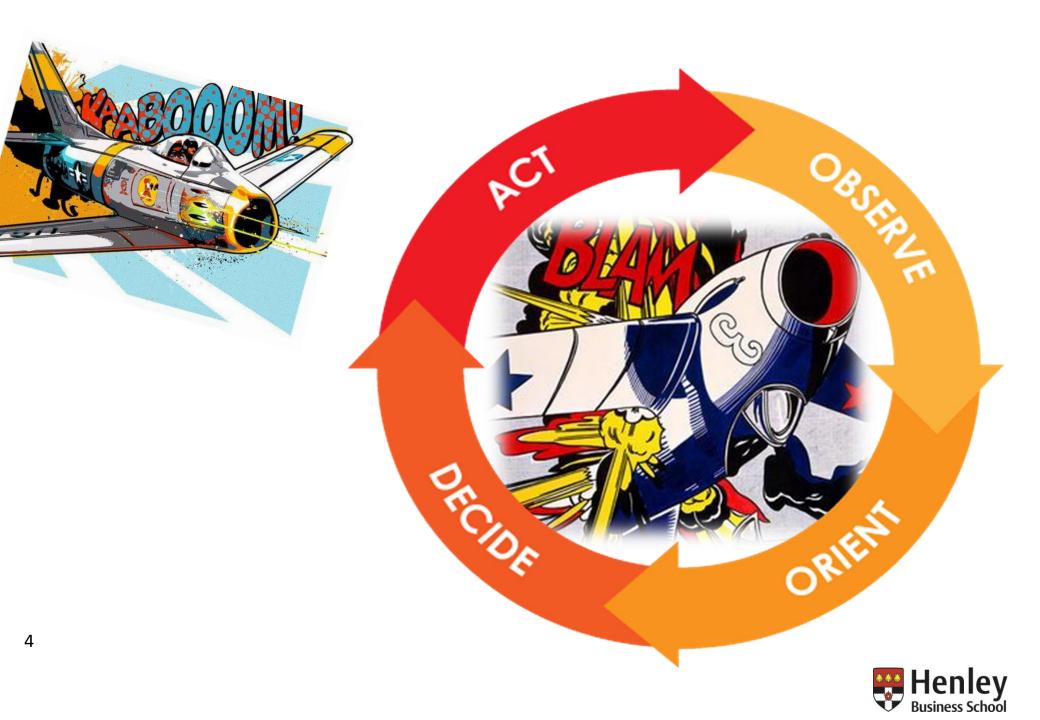




Aircraft with bullet holes









Power distance... AF 447









Mr. Burman





United 173 and Eastern 401



United Airlines Flight 232





Awareness, improvisation,
communication & collaboration
Henley
Business School

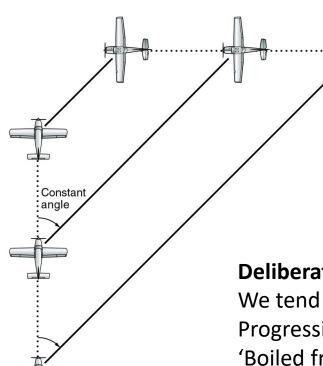
SCAN







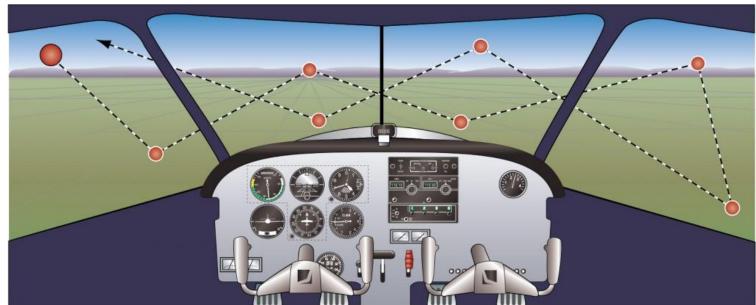




Deliberate Risk Scanning

Deliberate risk management and scanning is essential We tend to notice relative movement or the new. Progressive looming risks aren't noticed, or are discounted. 'Boiled frog' syndrome





Other aircraft

PLAN









PPPPPP

Proper Prior **Planning** Prevents Pretty Poor Performance

Managing awareness



ANSWER: make it all visible

CHIRP - Confidential & Independent Reporting

CHIRP Air Transport FEEDBACK

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Rostering

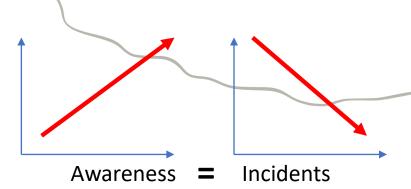
Life Jacket





Suddenly – there seems to be danger everywhere

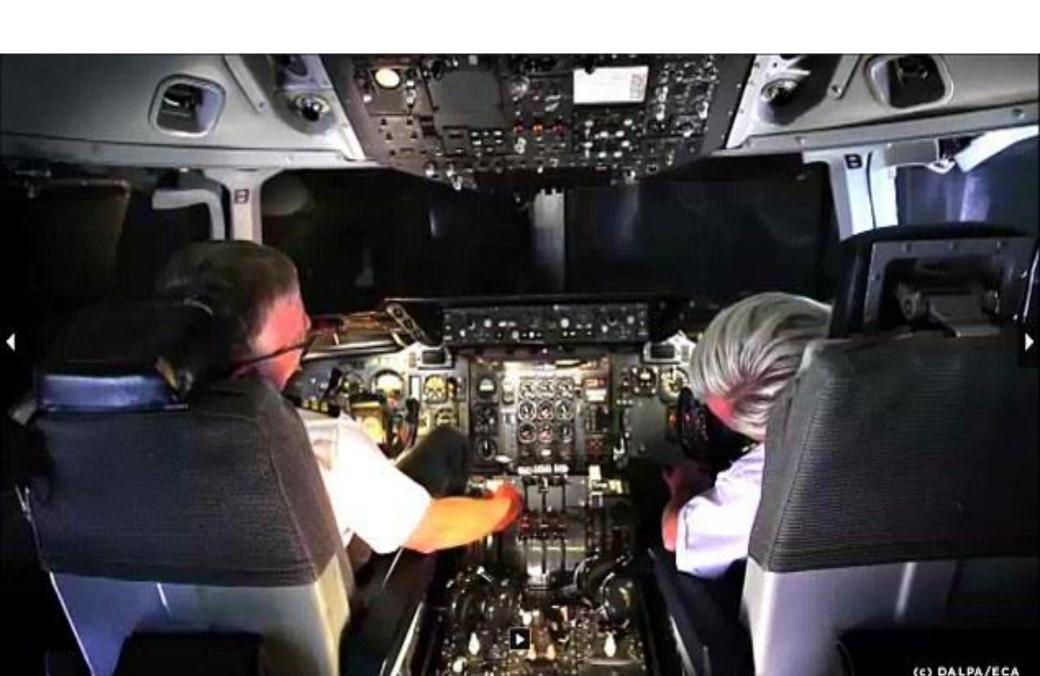
But then our natural self-organisation kicks in.....

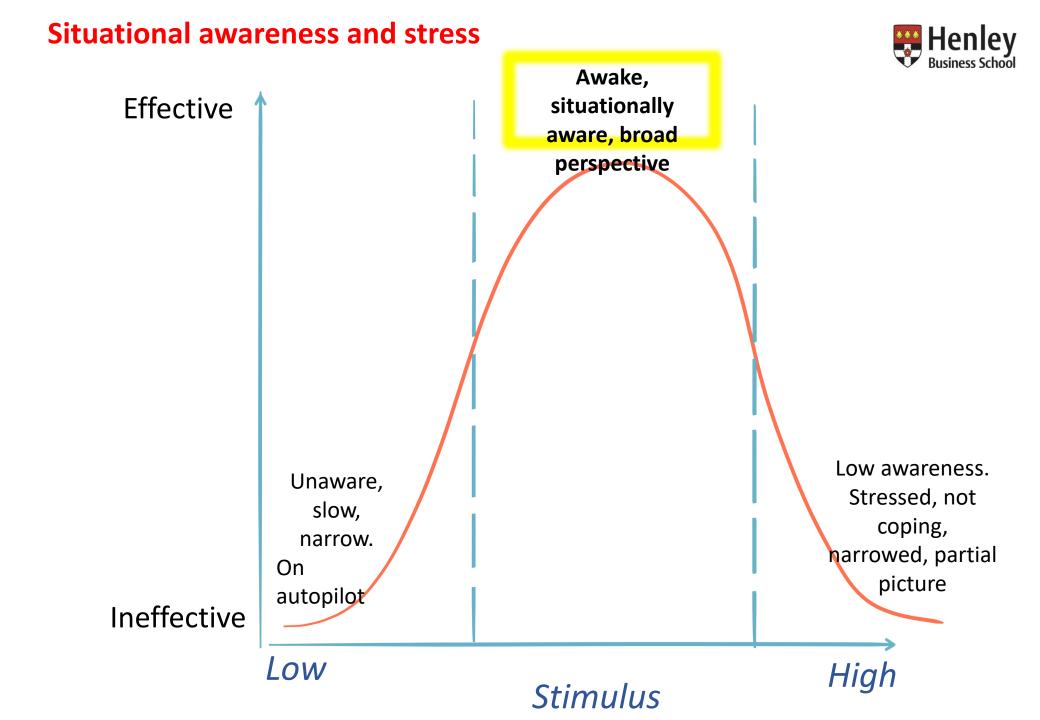


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Managing Arousal







Managing Self State



I'M SAFE acronym

- I Illness
- M Medication
- **S** Stress
- A Alcohol
- **F** Fatigue
- **E** Eating

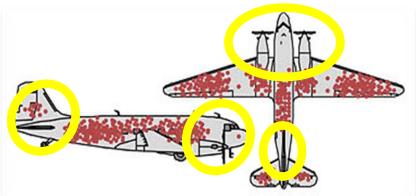


Managing Thinking Habits



Thinking well...





Aircraft with bullet holes

