

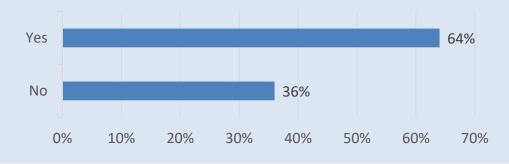
Poll 1 of 2

Do you agree with this Statement

"Uncertainty is not really uncertainty at all but just demonstrates a lack of foresight, imagination, and vision."

Please answer: Yes / No

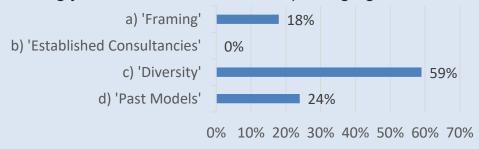
- The two polls were conducted, by the Chair, just before the start of the formal presentation in real-time with results shared immediately.
 - Poll 1 showed 64% agreed with the statement "Uncertainty is not really uncertainty at all but just demonstrates a lack of foresight, imagination, and vision."



Poll 2 of 2

- What one factor will improve decision-making given uncertainty?
 - a) Framing the question/challenge in multiple-ways
 - b) Bringing in established management consultancies
 - c) Having more different, diverse and challenging people and viewpoints
 - d) Better understanding of past and existing models

- The two polls were conducted, by the Chair, just before the start of the formal presentation in real-time with results shared immediately.
 - Poll 2 showed 59% believed statement c) 'Having more different, diverse and challenging people and viewpoints' would improve decision making given uncertainty.
 - Interestingly 0% voted for statement b) 'Bringing in established management consultancies'



Uncertainty

- > The order or nature of things is unknown
- The consequences or magnitude of circumstances or events are unpredictable
- Credible probabilities to possible outcomes cannot be assigned
- A situation where neither the probability distribution of a variable nor its mode of occurrence is known.

It is different from 'risk'!

The Three Axes of Uncertainty

Structural Components

Evidence base and future

Scenarios

Reactive or exploratory

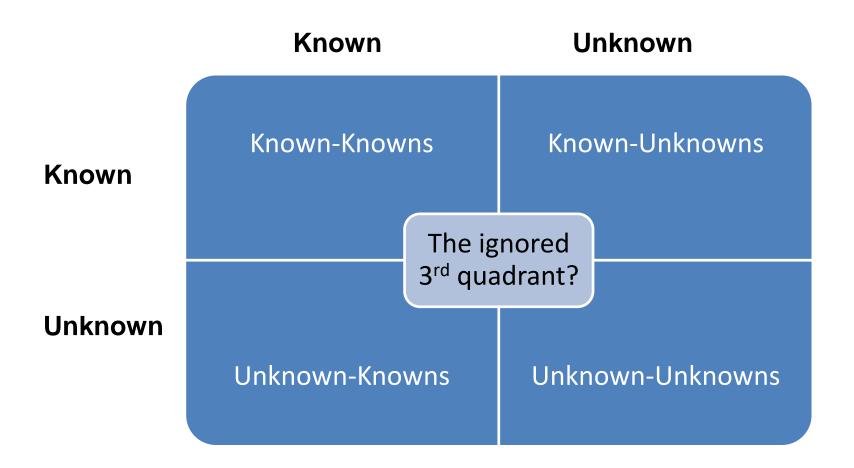
Behavioural Factors

Including biases and heuristics

Deconstructing the Three Axes

- Structural components of uncertainty
 - Locating uncertainty along the risk spectrum
 - Problem status
 - Time-based criteria
 - The evidence base
 - Ways of seeing the future
- Scenarios and their role in dealing with uncertainty
 - What are they, why are they useful and how can we best use them?
 - Scenario derivatives, second and third order scenarios
- > Behaviour the hidden influencer in how we deal with uncertainty
 - Behavioural factors cognitive biases, dissonance and alienation
 - How to mitigate the impact of the behavioural minefield

The 'Rumsfeldian' Interpretation



Uncertainty Profile Template

Identifiable/Known

Unidentifiable/Unknown

Predictable /Known

Q1 Known-Knowns (I know what I know)

Validated data, formal and tacit knowledge

Q2 Known-Unknowns (I know what I don't know)

Inevitable surprises

Unpredictable /Unknown

Q4 Unknown-Unknowns (I don't know what I don't know)

Terra Incognita, true black swans

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Identifiable/Known

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Q2 Known-Unknowns (I know what I don't know)

Inevitable surprises

Unpredictable /Unknown

Q3 Unknown-Knowns
(I don't know what I know or I
think I know but turns out I don't)

Pseudo-black swans/grey swans

Q4 Unknown-Unknowns (I don't know what I don't know)

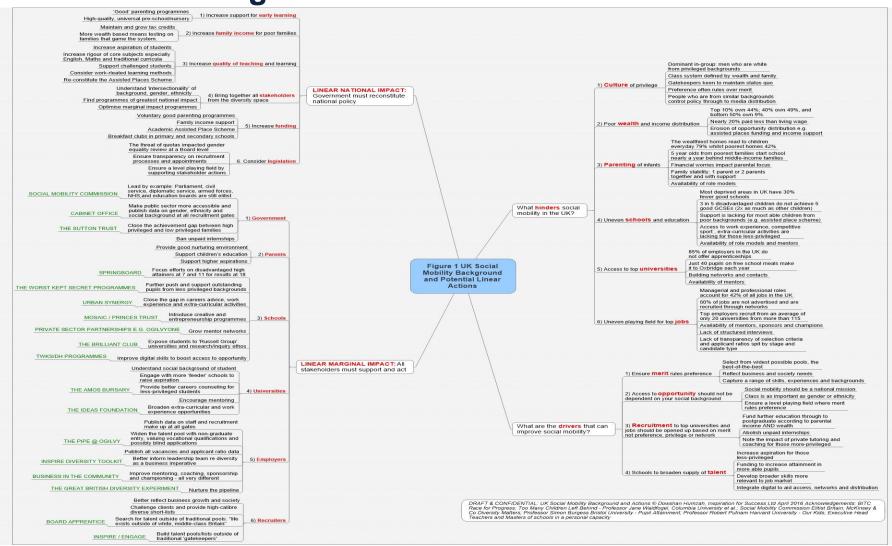
Terra Incognita, true black swans

Case Study of a 'Wicked Problem': Social Mobility

- > The UK, generally, remains a deeply divided society
 - Not really given gender, race, disability, age or any other protected characteristic
 - But between the 'haves' and the 'have-nots'
 - Based on privilege, money (wealth and income) and opportunity
- Improving social mobility and inequality can help address this

"We still live in a country where an individual's future potential is more defined by the circumstances of their birth – especially parental income, family wealth, and privilege."

Contextualising the Problem and Solutions



A Process to Simplify Wicked Problems

Phase 1

Generate the entire problem space (Steps 1-6)

- Select a diverse, high-quality team representing key stakeholders and different viewpoints
- Determine the focus question and main problem areas
- · Facilitate an open culture with challenge actively welcomed

Phase 2

Perform pair-wise analysis (Steps 7-8)

- Software converts the problem space into a matrix for pairwise analysis by the team
- Identify inconsistent pairs given the parameters

Phase 3

Generate the solution space for decision support (Steps 9-10)

- Software eliminates configurations where pairs are consistent - producing more viable consistent solutions
- Solutions are presented as 'what-if' scenarios
- Team applies creative thinking for more oblique solutions

Key Takeaways

- Is the difference between strategic and tactical in decision making understood?
- How resilient do you want to be?
- Identify early on as to what is at stake are you prepared for some uncomfortable truths?
- Try not to fall into the trap of oversimplification
- Get acceptance and understanding that foresight actions are not just about the longer term future but that the future starts now

Key Takeaways

- Be anticipatory rather than reactive
- Make the planners aware that the future is dynamic move away from fixed cycle planning and control
- Operationally, pay serious attention to frequently updating contingency plans, run regular simulation exercises
- Uncertainty not left to one person or department needs to be disseminated across the organisation and to defend its ground
- Always challenge management thinking! Have we transformed ourselves? What have we learnt? Have we been creative/different?

Postscript: Our Perception of Uncertainty

➤ We need to change the perception of uncertainty as something that happens in the future which we have no awareness or control over, to a proposition that the majority of future events are foreseeable when seen as 'inevitable surprises' or 'known-unknowns'

"A whole array of biases and a lack of imagination prevent us from making the effort to think about uncertainty as treatable"

