

Simplified Underwriting – From A Behavioural Lens

In the past decade, Simplified Issuance Offer (SIO) has gained tremendous popularity in SEA given its proposition in issuing more policies with shorter turnaround time and at lower acquisition cost. The SIO proposition has traditionally been popular in the context of Bancassurance as the channel demands seamless advice and policy issuance processes. In recent years, insurers have amplified this proposition in reaching out to agency, financial advisory and broking channel, complementing their regular product portfolio that are typically fully underwritten.

While consumers in general have benefited from the SIO proposition, there remains areas that warrant a more holistic consideration as the process of simplification needs to be balanced in ways that will mitigate this risk. For instance, rather than SIO being viewed as a trade-off between more accurate disclosure and quicker completion times, are there any solutions that can deliver both? Research suggests that Behavioural Economics (BE) may be our answer.

What is Behavioural Economics?

Behavioural Economics (BE) is where economics and psychology collide. It is a science that seeks to understand why and how individuals make decisions. BE differs from classical economic theory, in which the latter assumes that people are rational and individual economic decision-making is always about maximizing utility from a cost-benefit perspective.

For instance, the design of health-related questions in insurance application form largely conforms to the classical economic theory. Hence, issues such as under disclosure and non-disclosure were typically being viewed as deliberate 'dishonest' attempts in anti-selecting against insurers. However, this is not always the case as the underlying cause is beyond mere financial motives.

Understanding 'Dishonesty'

Leveraging on BE can help us to first understand why it is that people might not be entirely accurate or truthful and by knowing this, solutions can be designed to overcome these barriers.

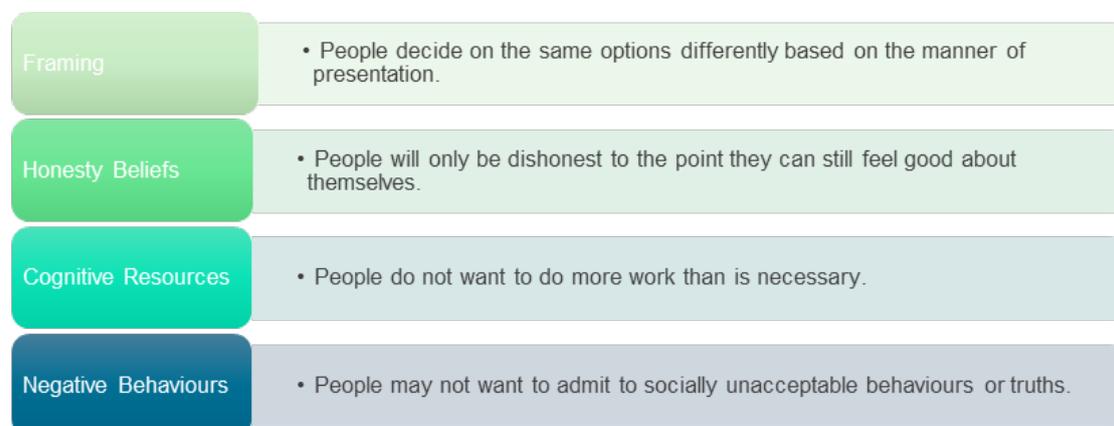


Figure 1.0 : Possible reasons for lack of accuracy and honesty

• **Framing**

The framing effect is a cognitive bias where people decide on options based on whether the options are presented with positive or negative connotations, e.g. as a loss or as a gain. This effect is well described by Kahneman and Tversky’s experiment, where participants were asked about the following scenario:

Scenario: A new disease emerged in the country and is expected to claim the lives of 600 people. Only 2 options are available.		
Option A	This would save 200 lives	72% elected for Option A
Option B	This would result in a 33% chance of saving all 600 people, 66% of saving no one.	28% elected for Option B

Kahneman and Tversky presented the same scenario, with the options presented differently:

Option C	400 people will die	22% elected for Option C
Option D	This would result in a 33% chance of saving all 600 people, 66% of saving no one.	78% elected for Option D

You would have noticed that in terms of numerical outcomes, both Option A and C are exactly the same. So why do 72% of the people selected the positively framed Option A, while a mere 22% of the people chose the negatively framed Option C? Clearly the human mind is susceptible to more than logic alone in evaluating gains and losses.

• **Honesty Belief**

We don’t tell the truth 100% of the time. Dan Ariely, a leading expert in BE tells us that people will ‘only be dishonest to the point they can still feel good about themselves’. The same applies to the insurance applicant’s responses. One key explanation is that, whilst inaccuracies might be intentional, they may be driven by psychological motives rather than financial motives.

For instance, some applicants downplay adverse medical histories. While they may be aware that they have a condition the insurer is asking about, they see their history as irrelevant to the eligibility to the coverage and elect not to disclose it. Thoughts such as ‘It was a long time ago’ or ‘My doctor tells me I’m stable without any real issue’ etc. drive such behaviour. Many of us also have a desire not to admit difficult things, such as weight, alcohol consumption, chronic diseases, to oneself.

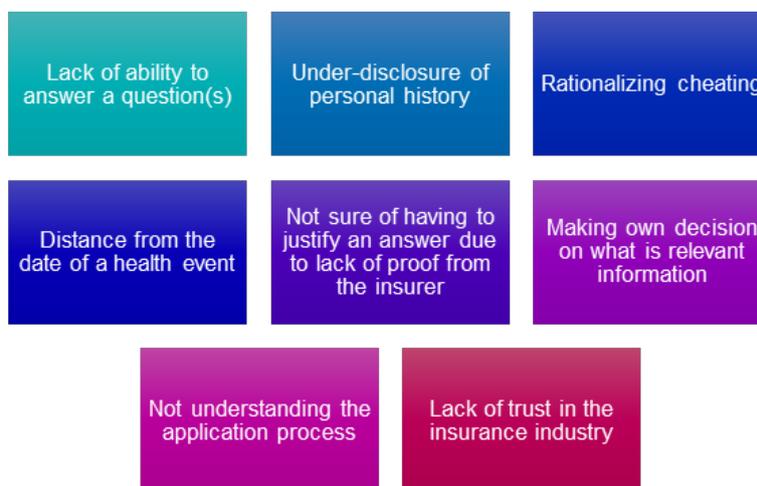


Figure 1.1 : Some examples of why there may be problems with applicant responses

• **Cognitive Resources**

Behavioural scientists believe that cognitive limitations affect most people’s ability to use and understand the information available to them. Kahneman indicates that people have two systems of thinking:

- System 1 – Fast Thinking, based on intuition and automatic processing
- System 2 – Slow Thinking, which is deliberate and requires more work.

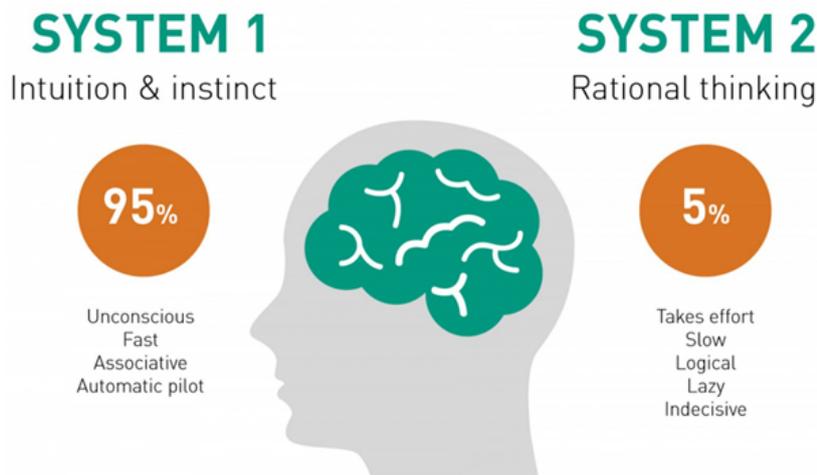


Figure 1.3 : System 1 Vs System 2 Thinking. People make 95% of their decision each day using the fast, instinctive, emotional System 1 thinking.

An example of System 1 thinking would be forming a perception of a stranger encountered in the street, merely based on how the individual walks or what the person wears. Even in situations where System 2 thinking would be more advantageous, people favour fast thinking because the intuitive processing system is automatic and cannot be shut down. A better understanding of how people process information, and the mental ‘shortcuts’ they use, can help us explore ways to nudge them to certain desirable behaviour.

• **Negative Behaviours**

People often do not want to admit to their behaviours if there is shame or social stigma attached. They may rather shade the truth, or even be outright untruthful, than to cause themselves psychological pain. A classical example would be questions on tobacco usage.

A comparison was made between the percentage of Americans who enrolled in health insurance schemes under the Affordable Care Act (also known as Obamacare) who disclosed smoking, and the percentage of state residents who claimed to be smokers (Figure 1.4).

State	% State Population Who Smoke	% Obamacare Enrollees Who Admit To Smoking
Kentucky	27	11
Louisiana	24	8
Mississippi	25	9
Wyoming	21	6
Idaho	17	3
Ohio	23	9
Oklahoma	24	10
West Virginia	27	13
Alaska	23	10
Arkansas	26	13

In most of the states where tobacco use was tracked, the percentage for those who were enrolled and who disclosed smoking was significantly below that of the state’s average. Although one explanation for the difference is the premium incentive, which may well be known to applicants. However, there is also an element of social stigma that comes with admitting one being a smoker.

Note that the tobacco question from a typical insurance application form is binary in nature, i.e. ‘Yes’ and ‘No’. The ‘Yes’ answer to this broad question, ‘Have you ever used tobacco or nicotine products in any form in the past 24 months?’ is an admission that the applicant is a tobacco user. While it may seem subtle, but the social stigma attached to the label “tobacco user” is very powerful and the need to feel good about oneself may deter them from disclosing their habits truthfully.

Figure 1.4: Percentage of individuals who admit to smoking¹

How can Behavioural Economics help?

There are 3 key principles to increase the accuracy of applicant disclosure: Make it (i) easier to be accurate, (ii) easier to be truthful and (iii) harder to lie.

• Make it easier to be accurate

The key in achieving this is to reduce the amount of mental processing or 'cognitive load'. Applicant has the tendency to answer questions quickly and often ended up with mental shortcuts without giving full thought and time. It is very common for insurers to reduce the number of questions by combining multiple questions. Taking this question for instance,

'Have you ever seen a doctor, received treatment or advice, or been hospitalized due to...'. This example actually asked 3 different questions, i.e. 'Have you been diagnosed?', 'Have you been treated?', 'Have you been hospitalized?'. Answering such question would result in significant cognitive load and may invite inaccuracies in disclosure.

Ways to minimize cognitive loads in the design of SIO questions include:

- Using simple, everyday language – leave no room for confusion or ambiguity
- Avoid asking more than one thing in a question – numerous simple questions are easier to process than one long question.
- Prompting memory by listing possible answers – use drop-down menus, scales, and other methods to replace the usual binary 'Yes', 'No' response.
- Asking about experiences (if possible), rather than illnesses.

• Make it easier to be truthful

People do not want to admit to their behaviours if there is shame or social stigma attached. Questions involving adverse history related to psychiatric, sexual, alcohol or substance abuse are particularly susceptible to this. These questions should be phrased in ways that can normalize and destigmatize the applicant answers, for example:

Assuming behaviour exists – ask, 'When did you last...?' and 'How frequently do you use...?' rather than asking 'Have you ever...?' and 'Do you use...?'.

Minimizing the applicant's feeling of being at the extremes of acceptable norms – provide multiple answer options that are weighted towards extremes of behaviour. For example, instead of providing a 'Yes', 'No' binary responses (which represents extremes of acceptable norms) for the tobacco usage question, provide responses as below:

- > In the past month
- > In the past 6 months
- > In the past 12 months
- > 1 – 5 years ago
- > More than 5 years ago
- > Never used any

• Make it harder to lie

As mentioned earlier, most people tend to shade the truths, tell half-truths, or even outright lie, up to the level that maintains their self-image as reasonably honest individuals. This is possible when it is easy to do so and easy to self-justify having done so.

Ways to make it harder for the applicant to self-justify lying include :

- Not making the "wrong" answer obvious – avoid binary questions and clear cut-off points. The problem with binary question has already been discussed. Examples of questions with clear cut-off points are those that provide cues on the 'wrong' answer. For instance, avoid asking whether the applicant's blood pressure or cholesterol levels falls within a defined normal value in any SIO questions.

- Increasing an applicant's sense that answers are being monitored and making lying a more deliberate and salient act. Stating that information will be checked against independent records, e.g. big data or industrial databases is useful. Informing producers or applicants that there may be follow-up checks to ensure they were honest at the time of application.

- Making lying more psychologically jarring – use language that triggers an emotional response. Incorporating an honesty statement, would be useful.

Proof of honest intent is typically provided through signature at the end of insurance application form. However based on research using laboratory and field experiments², signing before, rather than after answering the questions relying on honesty makes ethics salient when they are needed most and significantly reduces dishonesty.

Concluding Remarks

While BE's application remains new in SEA, it remains promising in improving risk classification even in products issued via SIO. BE principles clarify application form questions and insurance jargons, promotes ease of understanding for producers and applicants, and facilitates better risk classification by removing ambiguity with poor question design.

The points mentioned above highlight simple yet practical steps that insurers can take to improve disclosures and customers' on-boarding journey. We would like to emphasize that designing questions that are easy to answer is more important than attempts to decrease the number of questions, as sometimes Less is indeed More.

Author



Kent Chong
SCOR Global Life,
Senior Underwriter

References:

1. <https://khn.org/news/smokers-ranks-look-conspicuously-sparse-in-obamacare/>
2. <https://www.pnas.org/content/109/38/15197>