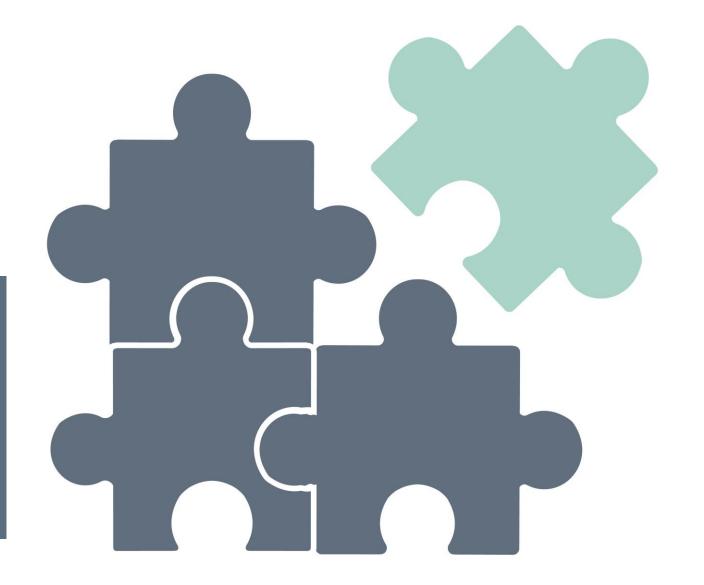




Session goals

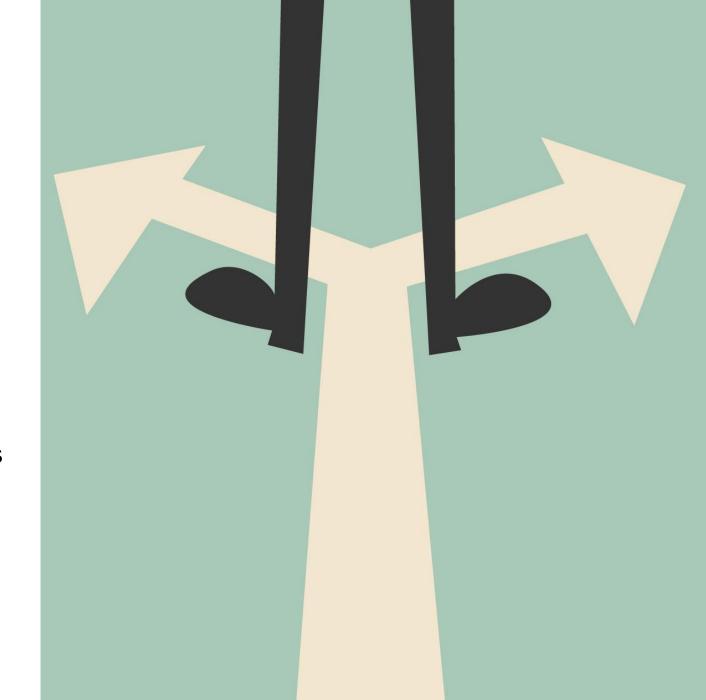
- 1. Understand nudging and how it might complement current RG strategies.
- Identify data sources that can be used to inform nudging strategies in a gambling context, and how to effectively leverage data from these sources.
- 3. Create nudging strategies to encourage effective use of precommitment tools across various touchpoints within gambling environments.

Complementing Traditional RG Strategies with Nudging



Traditional RG strategies

- Traditional RG strategies are rooted in an informed choice model
- These strategies assume that adequate information + support tools = safe behaviour
- Research shows that these RG strategies are fairly effective for low and moderate risk gamblers (Hing et al., 2016)
- Heuristics and bias may limit a player's ability to effectively apply RG information to their gambling behaviour



Heuristics, bias, and gambling

- Research shows that people do not always make rational decisions about their behaviour
- Instead, they use heuristics (mental shortcuts) to simplify judgement and decision making
- Heuristics = bias
- Common heuristics and biases in gambling
 - The "sunk-cost effect"
 - "Mental accounting"
 - The "representatives heuristic" (or "gambler's fallacy")
- An "Illusion of control"
- "Othering"

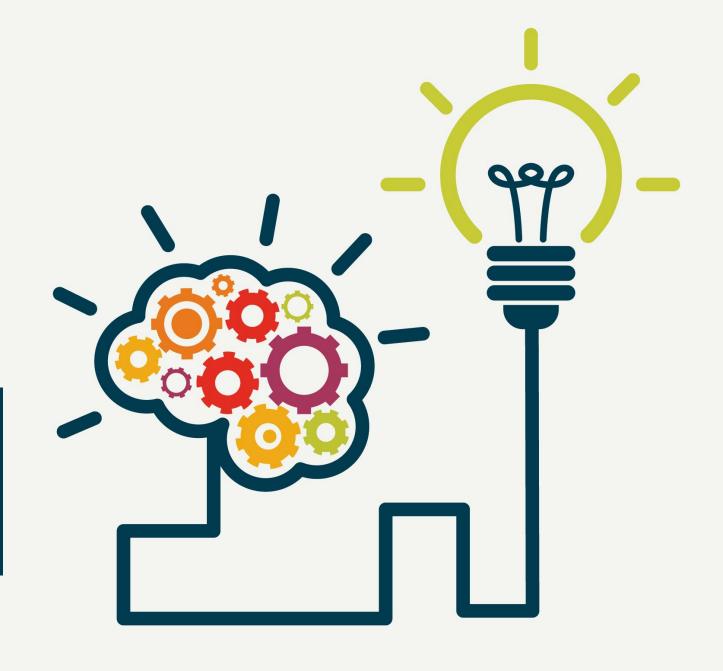


Why nudging might help

- Nudging strategies:
 - Acknowledge that people do not always act in their own best interest
 - Consider real human behaviour in the development of policies and programs
- In other words:
 - Nudging strategies in gambling account for mental shortcuts and biases that are leading to gambling problems, and help people to play safely anyways



Understanding Nudging







System 1: Fast

Automatic intuitive, effortless 2x2

Driving

Daniel Kahneman,
Nobel Laureate



System 2: Slow

Reflective deliberate, analytic

24x17

Learning to drive

"It turns out that the **environmental effects** on behavior are a lot stronger than most people expect" **Daniel Kahneman, Nobel Laureate**



Which would you choose?

Imagine that you want to buy a subscription to The Economist and you can choose from the following three options:

1. Online subscription (£59.00)

One-year subscription to Economist.com.

2. Print subscription (£125.00)

One-year subscription to the print edition of The Economist

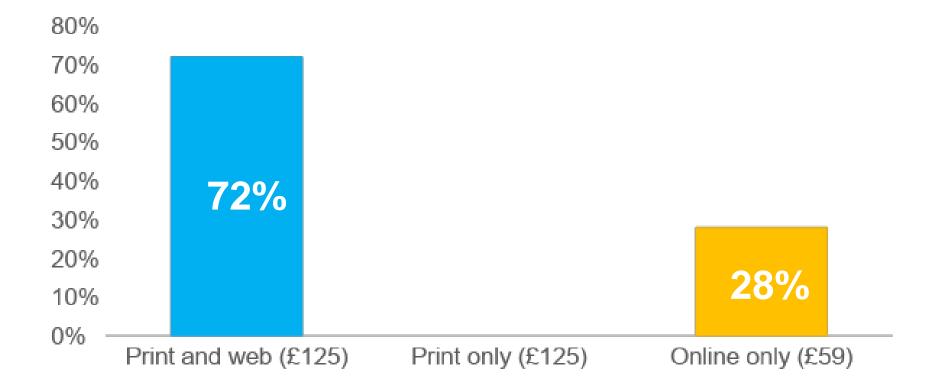
3. Online + print subscription (£125.00)

One-year subscription to the print edition of The Economist plus online access.



Which would you choose?

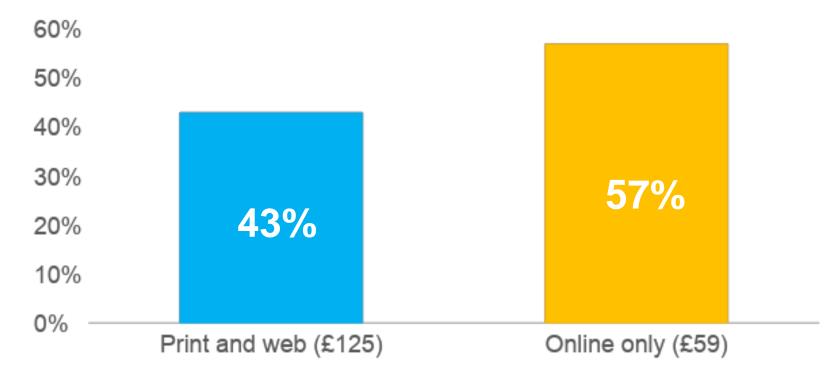
A group of MBA students were asked the same question and this is what they chose:





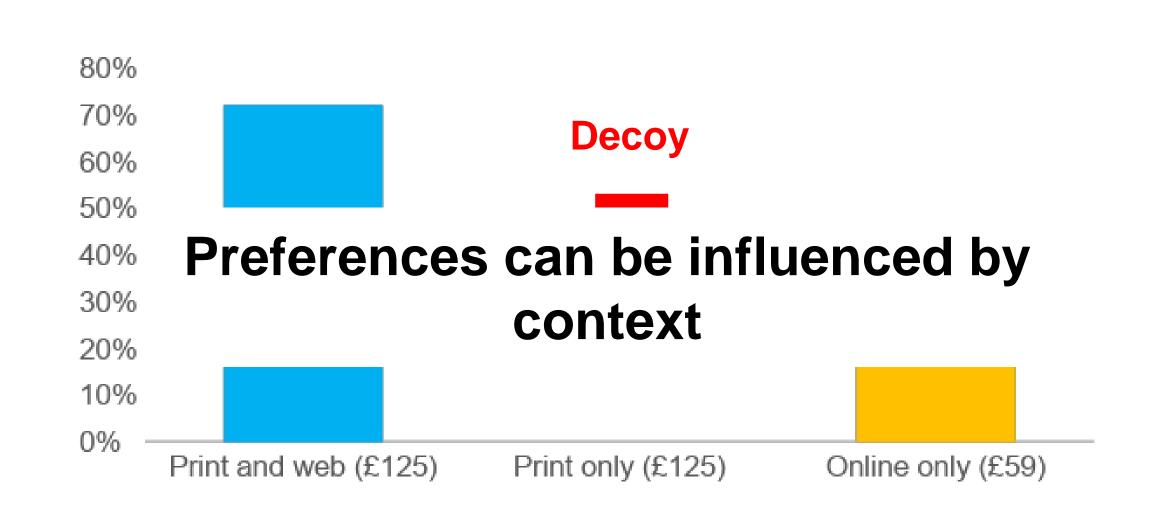
Which would you choose?

However, when presented with only two choices the proportion of students that choose the print and web option drops to 43%:





Irrelevant decoy information sways choice





EAST: Our framework for generating behavioural change



If you want people to change their behaviour, make it...

Easy

Defaults

Friction costs

Simplify messages

Social

Social norms

Peer networks

Commitments & reciprocity

Attractive

Attract attention

Personalise

Rewards & incentives

Timely

Timely prompts

Present bias

Implementation intentions





Increasing credit card repayments

Minimum repayments are typically featured prominently on statements sent to card holders and are a regulatory requirement.

This minimum repayment can act as an anchor that leads to lower repayments. Over time this significantly increases the cost of credit cards.

We ran an **online experiment** allocating participants to different interface designs.



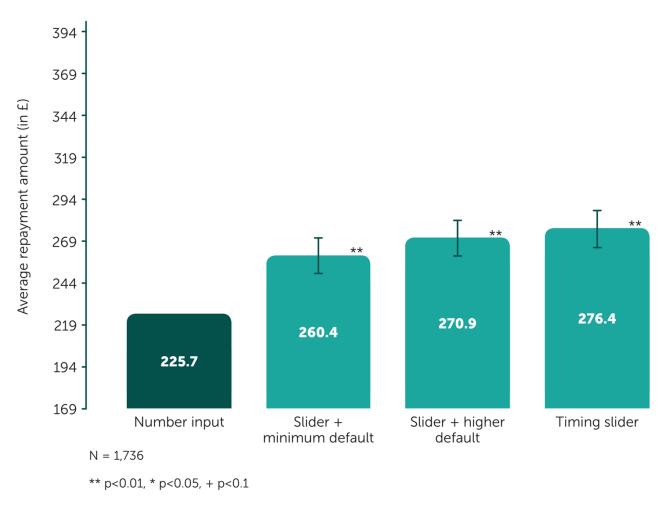


Changing the repayment interface









We are currently testing the idea in the field.

Note: The default repayment is £284 in the 'slider + higher default' condition and £169 otherwise.

Equipping friends and family with information to help



Inputs



Upcoming deadlines



Exam dates



College activities

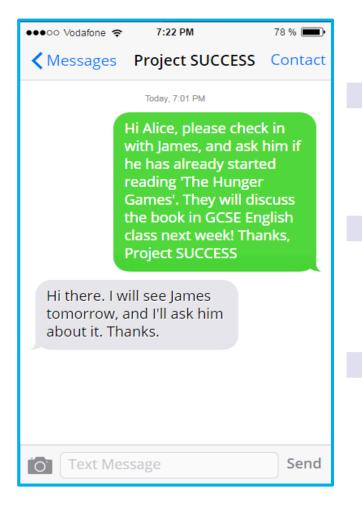


Academic resources



Useful websites

Intervention



Enhanced timely conversations

So, you're reading
The Hunger Games in
class? Who's your
favourite character?

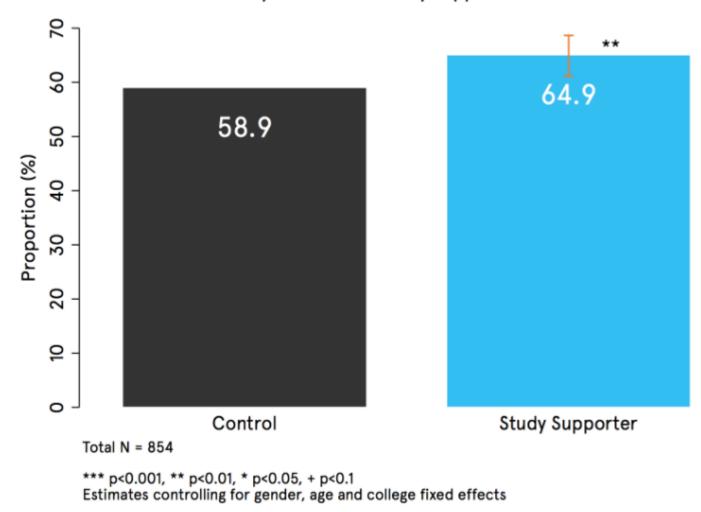
Yeah, need to get started on that.

OK, don't forget to read a few chapters before next week's class!







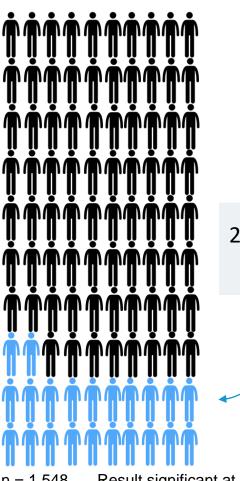


Timely: Study Supporter impact on attainment

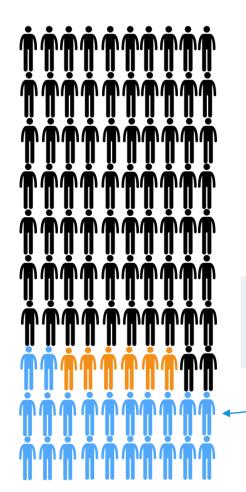


No Study Supporter texts

Study Supporter received weekly texts



22.2% passed the course



"[Before] they didn't even know if I had exams... I think [our relationship] became closer [because of the messages]"

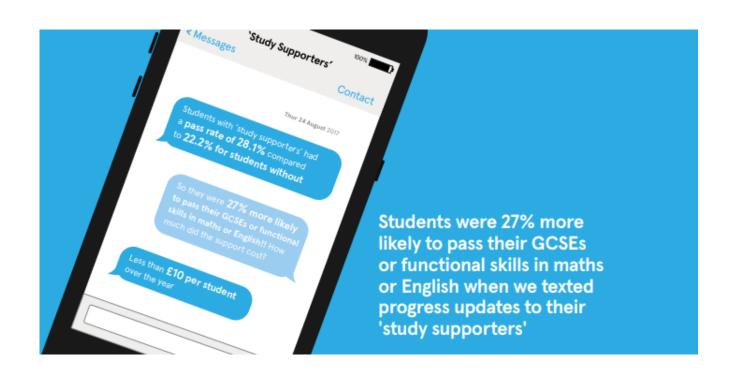
28.1% passed the course

<£10 cost
per student
over a year</pre>

n = 1,548 Result significant at p<0.05









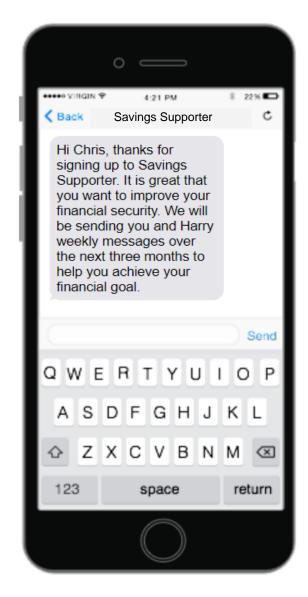


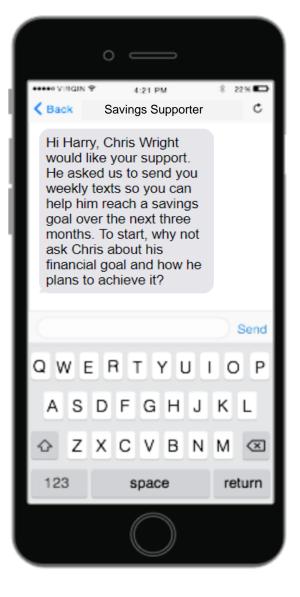
Helping young people save











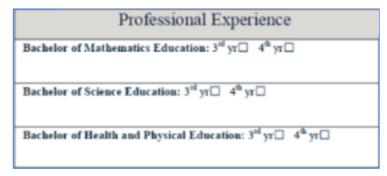
Can we boost applications for teaching posts in rural areas?





Simpler application plus prompts

1. Partially pre-filled forms



2. Prompt to select four rural schools



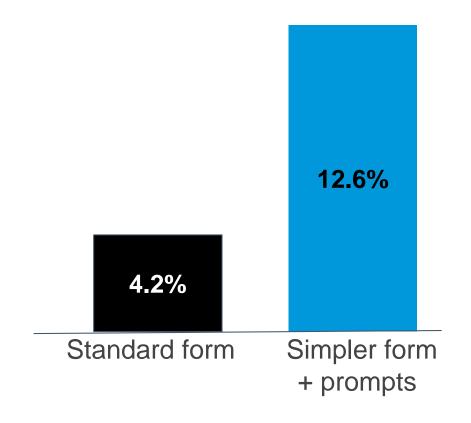
3. Postcard promoting rural placements







Teacher applications for rural placements







Using data to inform our strategy

Data scientific models can look for patterns in *existing* data to help understand which factors might be most important

This can steer which types of interventions we then trial

Figure 8: Relative predictive importance of categories of data.

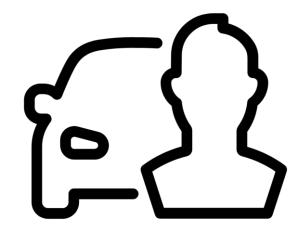


The bars add up to 100 per cent and each one indicates the total amount of importance (similar to correlation, but more general) for all variables in that category. The colours are for cosmetic purposes only.

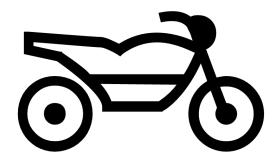


Using data to inform our strategy

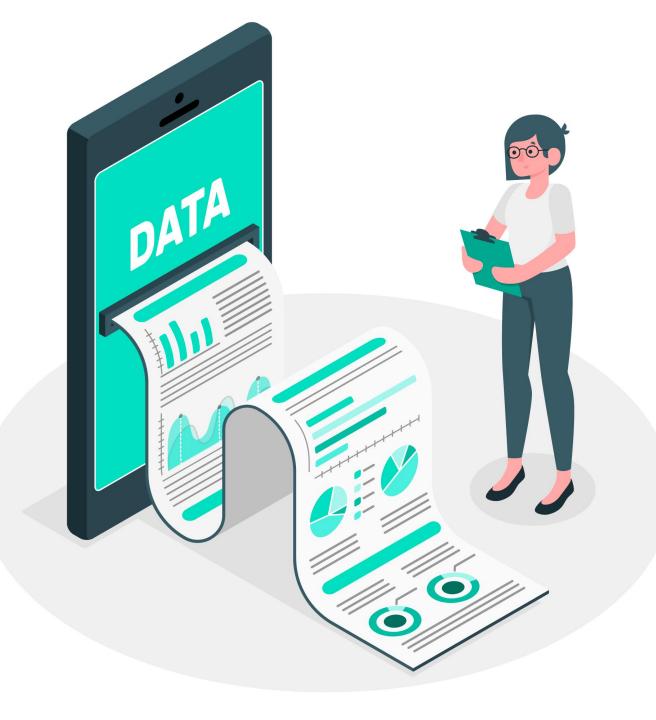
Using available data helps us to figure out who to target, and how



Younger drivers (<25 years old)



Motorcyclists



What are data sources we can use to better understand our players and ground our nudging strategies?

Potential data sources

- Player account data (where available)
- Data on overall play patterns (online, in-venue, etc.)
- Financial data
- Research data (e.g. census, health surveys, etc.)
- Geo data (information on location)





Example data BIT is capturing in ongoing work

From operators	From banks
 Uptake of deposit limit Dates, times, and amounts of deposits in 30 days after setting deposit limit Proportion of deposit limit met per day in 30 days after setting limit Time taken (days) to hit limit Total amount of deposits during observation period Value of each bet made during observation period Total winnings/losses during observation period 	 Average monthly/weekly/daily gambling spend and standard deviation (online only and total) Average number of monthly/weekly/daily gambling transactions (online only and total) Average monthly spend on gambling (online only) Ratio of monthly gambling spend to income Total gambling spend (online only, and total) and standard deviation just before/after salary payment Ratio of monthly gambling spend to contributions to savings accounts Use bank gambling block functions Use of credit / overdrafts to gamble



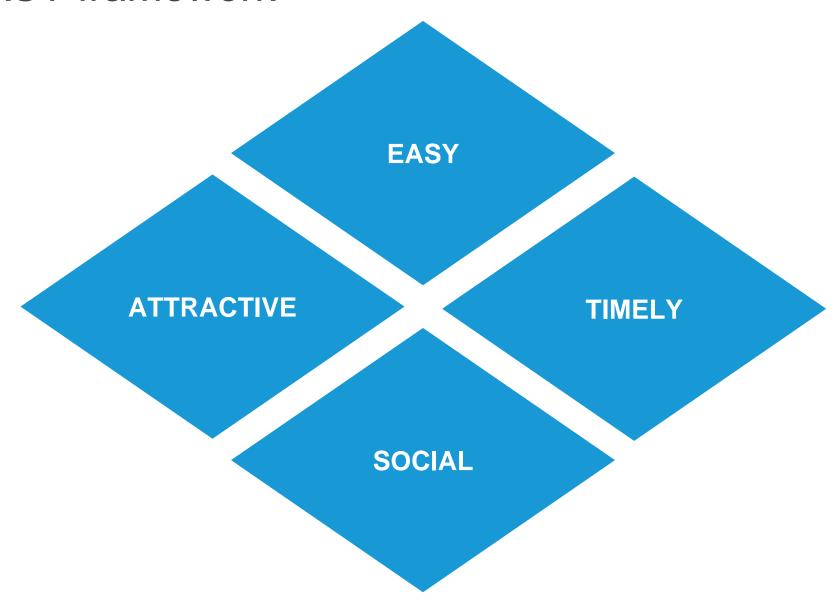


Creating nudging strategies

- In small groups, we are going to plan nudging strategies designed to help players make and adhere to precommitted time and money limits.
- Brainstorm: What are touchpoints between players and gambling environment (online or in-person) that we could leverage in our nudging strategies?
 - We'll chose 2 or 3 to focus on.

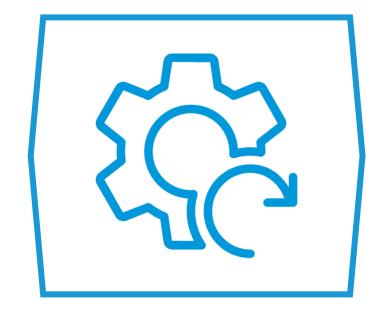


BIT's EAST framework





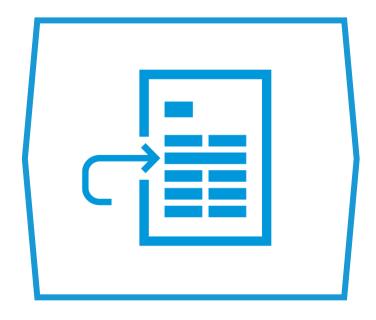




Set intelligent defaults



Reduce the hassle



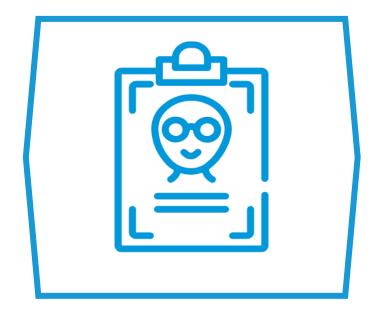
Simplify

Make it **Attractive**





Attract attention



Personalise experience



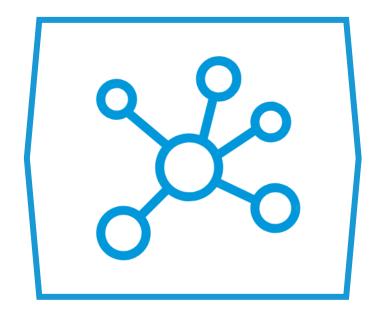
Provide incentives

Make it Social

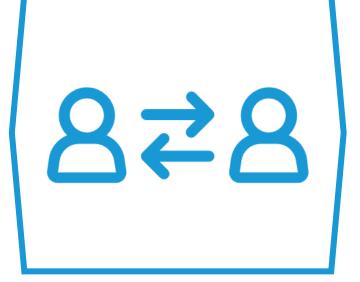




Highlight helpful social norms



Leverage networks



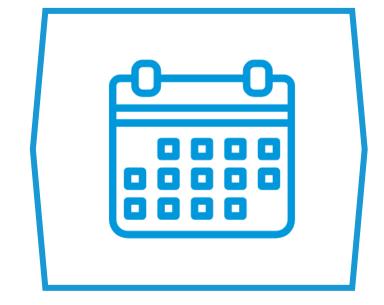
Use reciprocity effects

Make it **Timely**

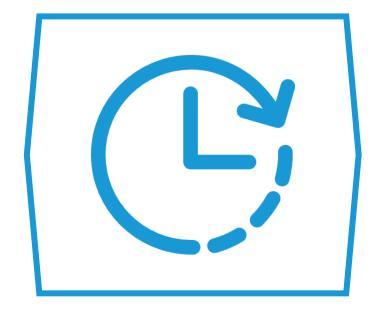




Consider the immediate costs and benefits



Help people plan their response to events



Prompt people when they are likely to be most receptive



Generating your own ideas



ROUND ONE

Create a strategy.

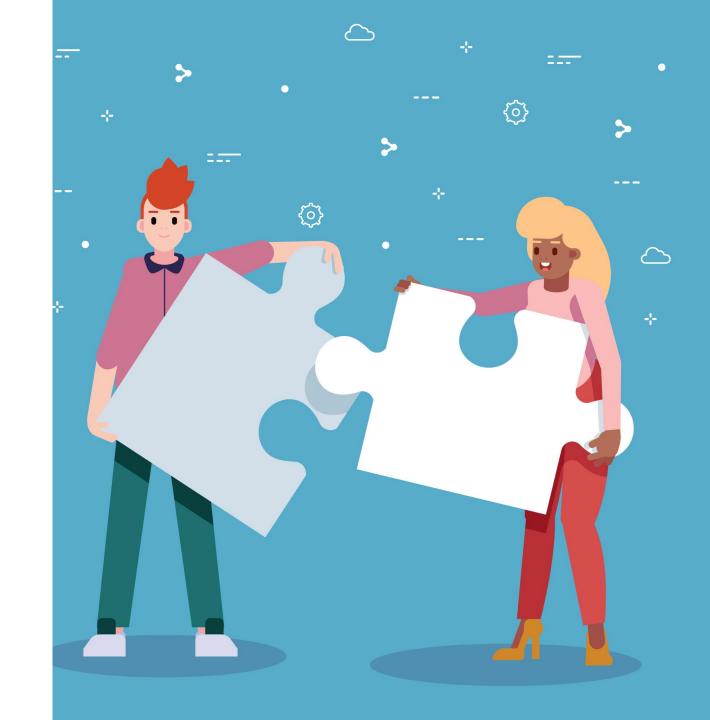
- Self-select into a group based on your touchpoint of interest.
- Using the EAST cards, begin to brainstorm how you could use nudging to enhance use of precommitment tools at your chosen touchpoint.
- Deliverable in 20 minutes: a documented draft plan for a nudging strategy.



ROUND TWO

Time to cross pollinate.

- Select half/one-third of your group to switch to another touchpoint of focus.
- Those who remain with their original touchpoint should take new members through their plan/strategy.
- New members should be ready to ask questions/suggest changes to the strategy/plan.
- Deliverable after 20 minutes: an updated and enhanced plan for a nudging strategy and a presentation plan.



ROUND THREE

Presentations.

- Members from each group will present on their strategy.
- Audience members, GREO, and BIT will provide thoughts and insights on each strategy.
- GREO will take notes and provide all attendees with a summary of each strategy and any relevant feedback.





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